CONTRACTOR NOTICE

REVISIONS: CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR THOROUGH REVIEW OF ALL PLANS AND MUST WORK ONLY FROM THE APPROVED LATEST SETS OF DRAWINGS, CALCS, ADDENDA, RFI RESPONSES, APPROVED SUBMITTALS, AND OTHER PROJECT DOCUMENTS.

1. THE CONSTRUCTION DOCUMENTS INCLUDE BOTH THE DRAWINGS AND SPECIFICATIONS. THEY ARE COMPLEMENTARY DOCUMENTS. ANY INFORMATION SHOWN IN THE DRAWINGS BUT NOT IN THE SPECIFICATIONS, OR SHOWN IN THE SPECIFICATIONS BUT NOT IN THE DRAWINGS IS REQUIRED AS IF SHOWN IN BOTH.
2. WORK NOT SPECIFICALLY COVERED IN THE CONSTRUCTION DOCUMENTS SHALL, JUST THE SAME, BE REQUIRED IF IT IS REASONABLY INFERABLE AS BEING NECESSARY OR APPROPRIATE TO PRODUCE THE INTENDED RESULTS COMPLETELEY.
3. PROVIDE ACCESS TO THE COMPLETE CONSTRUCTION DOCUMENTS AND ANY ADDENDA TO ALL NECESSARY SUB-CONTRACTORS AND SUPPLIERS. SEPARATIONS OF SPECIFICATION SECTIONS AND DRAWING SHEETS ARE NOT TO BE CONSIDERED LIMITS OF WORK OF SEPARATE TRADES. THE CONSTRUCTION DOCUMENTS DO NOT DEFINE ANY SUCH LIMITS OF WORK; THIS RESPONSIBILITY IS SOLELY THAT OF THE CONTRACTOR.
4. VERIFY SITE CONDITIONS, TAKE FIELD MEASUREMENTS, AND CAREFULLY STUDY AND COMPARE CONSTRUCTION DOCUMENTS FOR THE PURPOSE OF FACILITATING COORDINATION AND CONSTRUCTION PRIOR TO STARTING EACH PORTION OF THE WORK.
5. DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALE ON DRAWINGS. DO NOT MANUALLY SCALE DRAWINGS. IF A REQUIRED DIMENSION IS NOT SHOWN, REQUEST ARCHITECT TO PROVIDE.
6. COMPLY WITH MANUFACTURER'S SUGGESTED INSTALLATION METHODS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE OR WHERE PROHIBITED BY CODE REQUIRMENTS.
7. WORK AND MATERIAL IN THIS PROJECT MUST MEET THE REQUIRMENTS OF THE LATEST REGULATIONS OF AUTHORITIES HAVING JURISDICTION AND WITH RULES OF UTILITY COMPANIES FURNISHING SERVICES. THE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE CONSTRUED AS PERMITTING WORK NOT IN CONFORMANCE WITH CODE REQUIREMENTS.
8. THE DESIGN , ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, SCAFFOLDING, AND CONSTRUCTION METHODS, IS THE RESPONSIBILITY SOLEY OF THE CONTRACTOR.
9. OCCUPATIONAL SAFETY AND HEALTH: CONSTRUCTION PROCESS IS GOVERNED, AT ALL TIMES, BY THE APPLICABLE PROVISIONS OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CURRENT RULES). CAL/OSHA. ALL REQUIRMENTS FOR SITE SAFETY IS THE RESPONSIBILITY SOLEY OF THE CONTRACTOR.
10. UPON DISCOVERY OR BEING MADE KNOWN OF A CONFLICT, ERROR, NONCONFORMITY, INCONSISTENCIES, OR DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, PROVIDE IMMEDIATE NOTICE IN WRITING AS A REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT. WITHHOLDING ANY SUCH KNOWN INFORMATION SHALL BE CONSIDERED BREACH OF CONTRACT.

SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS MAY REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE:

SOILS COMPLIANCE:
REFER TO GEOTECHNICAL REPORT FOR SPECIAL INSPECTION REQUIREMENTS.

STRUCTURAL
REFER TO STRUCTURAL FOR SPECIAL INSPECTION REQUIREMENTS.

ENERGY:
SEE ENERGY MANDATORY MEASURES AND TEST FORMS FOR ITEMS OF SPECIAL REQUIREMENTS. COMPLETE ALL INSTALLATION CERTIFICATES AND CERTIFICATES OF ACCEPTANCE AS REQUIRED.

CODE REVIEW

AREA: **BASEMENT FLOOR: 10,111 S.F. GROSS (CONDITIONED)**
FIRST FLOOR: 9,512 S.F. GROSS (CONDITIONED)
MEZZANINE FLOOR: 1,816 S.F. GROSS (CONDITIONED)
OVERALL TOTAL: 21,4439 S.F. GROSS

NOTE: GROSS FLOOR AREAS CALCULATED PER CBC CH.10 DEFINITION

CONSTRUCTION TYPE: III-B, PARTIALLY SPRINKLERED

PRINCIPAL OCCUPANCIES: • ASSEMBLY GROUP A-3 (CBC 303.4)
• DINING HALL & KITCHEN: ASSEMBLY GROUP A-2 (CBC 303.3)

OTHER OCCUPANCIES: • OFFICES: BUSINESS GROUP B (CBC 304.1)
• STORAGE: STORAGE GROUP S-1 (CBC 311.2)

FIRE SPRINKLER SYSTEM: YES - CHBC 8-410.2 - NFPA 13R (DEFERRED SUBMITTAL)
FIRE ALARM SYSTEM: YES - CBC 907 (DEFERRED SUBMITTAL)

BASIC ALLOWABLE BUILDING HEIGHT & FLOOR AREAS: (TABLE 503):
• GROUP A-2, TYPE III-B: 55'-0" HEIGHT , 2 STORIES @ 9,500 SF
• GROUP A-3, TYPE III-B: 55'-0" HEIGHT , 2 STORIES @ 9,500 SF
• GROUP B, TYPE III-B: 55'-0" HEIGHT , 3 STORIES @ 19,000 SF
• GROUP S-1, TYPE III-B: 55'-0" HEIGHT , 2 STORIES @ 17,500 SF

EXISTING STORIES: 3 STORIES (2 STORIES ABOVE GRADE) - OK
EXISTING HEIGHT: 54-0" APPROX. MAX HEIGHT TO ADJACENT FINISHED GRADE - OK
• NO HEIGHT OR STORY INCREASE REQUIRED OR PROPOSED.

PROPOSED BUILDING AREA (CBC SECTION 506):
• AUTO SPRINKLER SYSTEM INCREASE (SECTION 506.3):
EQUIPPED THROUGHOUT w/ NFPA 13, THUS BUILDING AREA MAY BE INCREASED (Is=2).
• FRONTAGE INCREASE (SECTION 506.2):
>25% OF BLDG PERIMETER ON PUBLIC WAY & OPEN SPACE MIN. WIDTH 20FT, APPLY EQ. 5-2.
IF=[F/P-0.25] W/30, ENTIRE PERIMETER, SO F/P=1, W=30FT, FRONTAGE INCREASE 0.75
• IN TABLE BELOW, INCREASED ALLOWABLE INCLUDES SPRINKLER & FRONTAGE INCREASES.
APPLY EQ.5-1: Aa=[At+(At * If)+(At * Is)]:

		PROPOSED	BASIC ALLOWABLE	INCREASED ALLOWABLE	RATIO: (PROPOSED / INCR ALLOWABLE)	
BASEMENT	GROUP A-2	8,238 SF	9,500 SF	35,625 SF	0.231	
	GROUP S-1	503 SF	17,500 SF	52,500 SF	0.01	
	MECH (A-2)	1,370 SF	9,500 SF	35,625 SF	0.038	
	BASEMENT TOTAL:	10,111 SF		FIRST FLOOR SUM:	0.279	**<1, OK**
1st FLOOR	GROUP A-3	548 SF	9,500 SF	28,500 SF	0.019	
	GROUP A-2	8,552 SF	9,500 SF	28,500 SF	0.3	
	GROUP B	412 SF	19,000 SF	57,000 SF	0.007	
	1st FLOOR TOTAL:	9,512 SF		FIRST FLOOR SUM:	0.653	**<1, OK**
MEZZANINE	GROUP A-3	1,621 SF	9,500 SF	28,500 SF	0.057	
	GROUP S-1	103 SF	17,500 SF	52,500 SF	0.002	
	MECH (A-2)	92 SF	17,500 SF	52,500 SF	0.002	
	MEZZANINE TOTAL:	1,816 SF		SECOND FLOOR SUM:	0.061	**<1, OK**
	TOTAL BLDG:	21,439 SF		WHOLE BUILDING SUM:	0.993	**<2, OK**

INCIDENTIAL USES (CBC TABLE 509):
• THE BUILDING INCLUDES A STORAGE ROOM OVER 100 SF, AND INCLUDES AUTOMATIC FIRE SPRINKLER SYSTEM. THERE ARE NO OTHER INCIDENTIAL USES AS LISTED IN TABLE 509.
FIRE-RESISTANCE RATING REQ'S FOR BUILDING ELEMENTS (CBC TABLE 601): TYPE III-B

PRIMARY STRUCTURAL FRAME:	0-HRS
BEARING WALLS- EXTERIOR:	2-HRS
BEARING WALLS- INTERIOR:	0-HRS
NON-BEARING WALLS & PATITIONS - EXTERIOR:	1-HRS
NON-BEARING WALLS & PATITIONS - INTERIOR:	0-HRS
FLOOR CONSTRUCTION:	0-HRS
ROOF CONSTRUCTION:	0-HRS

FIRE RESISTANCE-RATING FOR EXT. WALLS BASED ON FIRE SEPARATION DIST. PER MOST RESTRICTIVE USE(CBC TABLE 602):
TYPE III-B CONST, OCCUPANCY GROUPS A, B & S-1(x = FIRE SEPARATION DISTANCE):

A) x < 5 FEET:	2-HR
B) 5 ≤ x < 10 FEET:	1-HR
C)10 ≤ x <30 FEET:	0-HR
D) x ≥ 30 FEET:	0-HR

MAX AREA EXT. WALL OPENINGS BASED ON FIRE SEP. DISTANCE (CBC TABLE 705.8):
THE PROPOSED BLDG IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THEREFORE THE MAXIMUM AREA OF WALL OPENINGS AT VARIOUS FIRE SEPARATIONS DISTANCES ARE AS FOLLOWS:

A) 0 TO LESS THAN 3 FEET:	NOT PERMITTED.
B) 3 TO LESS THAN 5 FEET:	15%
C) 5 TO LESS THAN 10 FEET	25%
D) 10 TO LESS THAN 15 FEET:	45%
E) 15 TO LESS THAN 20 FEET:	75%
F) 20 FEET OR GREATER:	NO LIMIT

APPLICABLE CODES

ADOPTED CODES OF CITY OF EUREKA: (OR LATEST ADOPTED CODES)
•2013 California Administrative Code, Title 24, Part1
•2013 California Referenced Standards Code, Title 24, Part 12
•2013 California Energy Code, Title 24, Part 6
•2013 California Electrical Code, Title 24, Part 3
•2013 California Building Code, Title 24, Part 2, Volumes 1 & 2
•2013 California Mechanical Code, Title 24, Part 4
•2013 California Plumbing Code, Title 24, Part 5
•2013 California Green Building Standards Code, Title 24, Part 11

NOTE: WHERE ANY OF THE ABOVE, OR ANY OTHER CODES, REGULATIONS, OR ORDINANCES CONTAIN REQUIREMENTS RELATED TO THE OPERATIONS AND MAINTENANCE OF THE FACILITY OR SERVICE TO CLIENTS THOSE REQUIREMENTS ARE THE RESPONSIBILITY OF THE OWNER AND/OR OPERATOR. THE ARCHITECT AND THEIR CONSULTANTS SHALL NOT BE RESPONSIBLE FOR COMPLINACE WITH ANY REQUIREMENTS NOT RELATED TO THE STANDARD OF CARE OF THEIR PROFESSION.

DEFFERED SUBMITTALS

CONTRACTOR SHALL PROVIDE ALL DESIGN, ENGINEERING, AND DOCUMENTS AS REQUIRED FOR OBTAINING PERMIT AND INSTALLING ALL OF THE FOLLOWING ITEMS. WHERE ENGINEERING IS REQUIRED, IT SHALL BE COMPLETED AND SIGNED BY A RESPONSIBLE REGISTERED ENGINEER. WITHIN SIX (6) WEEKS OF ISSUE OF CONTRACT, SUBMIT SIGNED COPIES OF ALL DOCUMENTS FOR REVIEW AND APPROVAL OF ARCHITECT AND PROJECT ENGINEER OF RECORD, PRIOR TO SUBMITTAL TO AUTHORITIES HAVING JURISDICTION.

CONTRACTOR SHALL INCLUDE ALL DESIGN, ENGINEERING, PLAN CHECK, PERMITTING, INSTALLATION, AND RELATED FEES AND EXPENSES IN THEIR CONTRACT AMOUNT.

1. FIRE SPRINKLER SYSTEM:
• PROVIDE COMPLETE AUTOMATIC SPRINKLER SYSTEM PER CHBC 8-410.2 & NFPA 13R.
• INCORPORATE WITH EXSTING STANDPIPE PER CBC 905 & NFPA 14.
• INCLUDE ALL SYSTEM COMPONENTS NOT EXISTING OR IN NEED OF UGPRADE.

2. FIRE ALARM SYSTEMS AND SMOKE ALARMS:
• PROVIDE COMPLETE MANUAL & AUTOMATIC FIRE ALARM PER CBC 907 & NFPA 72.
• SUBMIT FIRE ALARM SHOP DRAWINGS w/ ALL 14 ITEMS LISTED UNDER CBC 907.1.2.
• PROVIDE VISIBLE ALARM NOTIFICATION APPLIANCES PER CBC 907.5.2.3 & CBC 11B-702.1.
• COORDINATE WITH FIRE SPINKLER SYSTEM AS REQUIRED.
• PROVIDE ALARM COVERAGE FOR COMMERCIAL KITCHEN EXHAUST HOOD PER CBC 904.3.5.

GEOTECHNICAL REPORT

THE FOLLOWING REPORT IS REFERENCED AS "AVAILABLE INFORMATION" ONLY; AND IS NOT A PART OF THE CONSTRUCTION CONTRACT DOCUMENTS. IT IS FURNISHED BY THE OWNER AS PREPARED BY A CIVIL ENGINEER, AND REPRESENTS RECOMMENDATIONS AND DESIGN CRITERIA FOR THE ARCHITECT'S USE IN PREPARING THE CONSTRUCTION DOCUMENTS FOR THIS SPECIFIC PROJECT. THE INFORMATION AND RECOMMENDATIONS IN THIS REPORT ARE THE SOLE RESPONSIBILITY OF THE PREPARER. NEITHER THE OWNER, THE ARCHITECT, NOR ANY OF THE ARCHITECT'S CONSULTANTS WARRANT THE ACCURACY, ADEQUACY, NOR APPLICABILITY OF THE INFORMATION CONTAINED IN THE SOIL REPORT. THE ARCHITECT AND THEIR CONSULTANTS SHALL BE ENTITLED TO RELY ON THE ACCURACY AND COMPLETENESS OF SERVICES AND INFORMATION FURNISHED BY THE OWNER AND THE OWNER'S CONSULTANTS.

REPORT: VETERANS MEMORIAL HALL
GEOTECHNICAL REPORT
1020 H STREET
EUREKA, CALIFORNIA 95502
JOB NO.: 7451.11
ORIGINAL: JULY 16, 2015

PREPARED BY: J. ERIC RAUBER &
ERIC WILSON
LACO ASSOCIATES, INC.
21 W. 4TH STREET
EUREKA, CA 95501
707-443-5054

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	G-003	SITE PLAN
	G-004	OCCUPANCY & EGRESS CODE REVIEW
	G-005	CALGREEN
CIVIL	C-001	SITE DEMOLITION PLAN
	C-101	SITE GRADING & DRAINAGE PLAN
	C-102	SITE EROSION CONTROL PLAN
	C-103	ENLARGED PLANS
	C-201	SITE DETAILS
	C-202	SITE DETAILS
	C-203	SITE DETAILS-SOUTH STAIR
	C-204	SITE DETAILS - SLOPED WALKWAYS
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	A-102	FIRST FLOOR PLAN
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	S1.3	GENERAL NOTES
	S1.4	TYPICAL CONCRETE DETAILS
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	S2.2	FIRST FLOOR FRAMING PLAN
	S2.3	ROOF & MEZZANINE & FLOOR FRAMING PLAN
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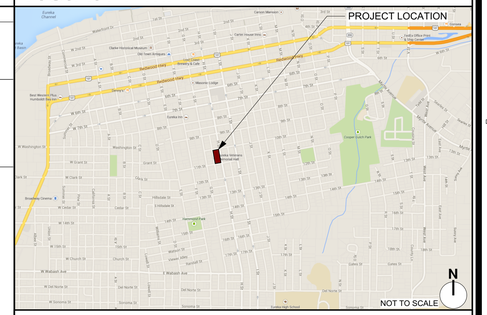
VICINITY MAP



PROJECT DESCRIPTION

SEISMIC REPAIR, LIFE SAFETY AND ACCESSIBILITY UPGRADES TO AN EXISTING COMMERCIAL BUILDING, BUILT IN 1930. EXTERIOR ALTERATIONS CONSIST OF NEW ACCESSIBLE ENTRANCES, FENESTRATION UPGRADES AND PARKING LOT REVISIONS. INTERIOR UPGRADES INVOLVE NEW EXITING PLAN AND PARTITION WALL REMOVAL FOR STRUCTURAL UPGRADES. THESE REVISIONS RESULT IN NEW INTERIOR PARTITION WALLS, ACCESSIBLE RESTROOMS, AND ACCESSIBILITY UPGRADES TO EXISTING ASSEMBLY AREAS.

LEGAL / ZONING

PROJECT TITLE:	EUREKA VETERANS MEMORIAL HALL
APPLICANT/OWNER:	HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS 1106 2ND STREET EUREKA, CA 95501 707-268-2665
ARCHITECT OF RECORD:	JAKE JOHNSON HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS 1106 2ND STREET EUREKA, CA 95501 707-268-2665
ASSOCIATE ARCHITECT:	KASH BOODJEH, A.I.A. K. BOODJEH ARCHITECTS P.O. BOX 881 ARCATA, CA 95518 707-822-8691
PROJECT ADDRESS:	1018 H STREET EUREKA, CA 95501
ASSESSOR'S PARCEL #:	005-023-002
JURISDICTION:	HUMBOLDT COUNTY
ZONING:	MULTI-FAMILY RESIDENTIAL (RM-1000-AR) ARCHITECTURAL REVIEW COMBINING DISTRICT
LOT SIZE:	25,790 S.F. (.59 ACRES)
SETBACKS FRONT:	5 FT (20FT FOR PARKING SPACE)
SIDE:	5 FT (10 FT CORNER LOT)
REAR:	20 FT (10 FT AT REVERSED CORNER LOT)
MAX. ALLOWABLE HEIGHT:	75 FT
HEIGHT:	±46-9 FT (EXISTING)
ACCESS. STRUCTURURE MAX HEIGHT:	12 FT
FLOOR AREA LIMIT-% OF SITE AREA:	100% = 25,790 S.F.
PARKING REQUIRED:	1 SPACE PER 60 SF NET (ASSEMBLY) 1 SPACE PER 300 SF GROSS (BUSINESS) 1 SPACE PER 200 SF GROSS (RESTAURANT/BAR) 1 SPACE PER 1000 SF GROSS (WAREHOUSE)
PARKING PROVIDED:	TBD
BIKE PARKING:	NONE
LANDSCAPE PROVIDED:	6,647 SQ. FT.
TRASH & RECYCLING:	TBD

PROJECT TEAM

ARCHITECT OF RECORD
JAKE JOHNSON
HUMBOLDT COUNTY
DEPARTMENT OF PUBLIC WORKS
1106 2ND STREET
EUREKA, CA 95501
707-268-2665

ASSOCIATE ARCHITECT
KASH BOODJEH, A.I.A.
K. BOODJEH ARCHITECTS
P.O. BOX 881
ARCATA, CA 95518-0881
707-822-8691

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415-989-1004

LANDSCAPE ARCHITECT:
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ARCATA, CA 95521
707-822-6619

ELECTRICAL ENGINEER
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PACE ENGINEERING
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REDDING, CA 96001
530-244-0202

MECHANICAL & PLUMBING ENGINEER:
DUANE H. HEBER, P.E.
180 FERN LN.
EUREKA, CA 95503-3305
707-444-3305

ENERGY COMPLIANCE:
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ABBAY TECHNICAL SERVICES
1125 16TH STREET, RM 216
ARCATA, CA 95521
707-826-1433

HISTORICAL BUILDING ANALYSIS:
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2426 G STREET
EUREKA, CA 95501
707-499-7049

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

LICENSED ARCHITECT
JAKE B. JOHNSON
32572
REN 12-31-17
11-10-16
STATE OF CALIFORNIA

K. BOODJEH ARCHITECTS

Consultant
K. BOODJEH ARCHITECTS
P.O. BOX 881
ARCATA, CA 95518

NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title
TITLE SHEET

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. G-001

Date: 11/10/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx

PROJECT NAME: EUREKA VETEAN'S MEMORIAL BUILDING SEISMIC REPAIRS		SURVEY SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
ROAD NO: N/A	MILE POST: N/A	DAVID J. RYAN	
PROJECT NO.: 210502	EA NO.: 210502	DESIGNED BY: XXX	EUREKA VETERAN'S MEMORIAL BUILDING
CONTRACT NO.: 210502	PPNO: XXXXXX	DRAWN BY: LJB	
DRAWING FILE NAME:F:\PWRK\...\210502-EUREKA VETS HALL\CDSN01.DWG		REVIEWED BY: DJR	
PLOT DATE: 6/24/2014	REVISION DATE: XX/XX/XXXX	APPROVED BY: XXX	

SHEET
OF 1

SCALE: 1/32" = 1'-0" NOT FOR CONSTRUCTION

Project #210502 EUREKA VETERAN'S MEMORIAL BUILDING

Within the city of Eureka in the Southeast quarter SE 1/4 SEC 22, T5N, R1W, Humboldt Meridian

APN: 005-023-002

FIELD WORK: 5/21, 5/27 and 5/28/2014 by Ken Johnston and Loren Blodgett
WORKMAP: 6/19/2014 by Loren Blodgett

BASIS OF BEARING: Measurements taken between monuments 12 and 17 of City of Eureka official map dated May 7th 1894.

BASIS OF ELEVATION: City of Eureka official map dated May 7th 1894. Elevation of 65.86' on Monument 12 (nominally mean lower low water).

RIGHT OF WAY: City of Eureka official map dated May 7th 1894.

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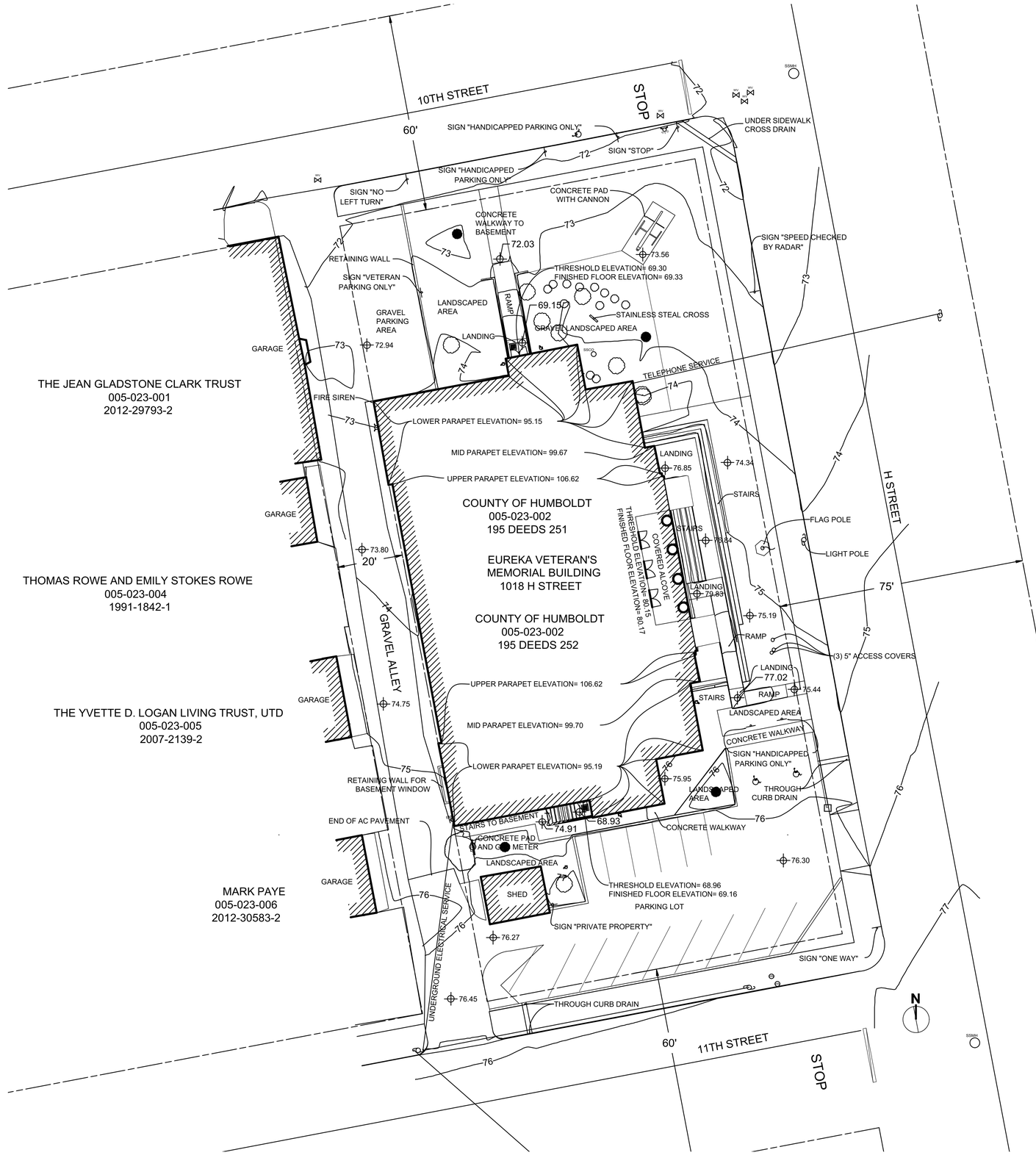
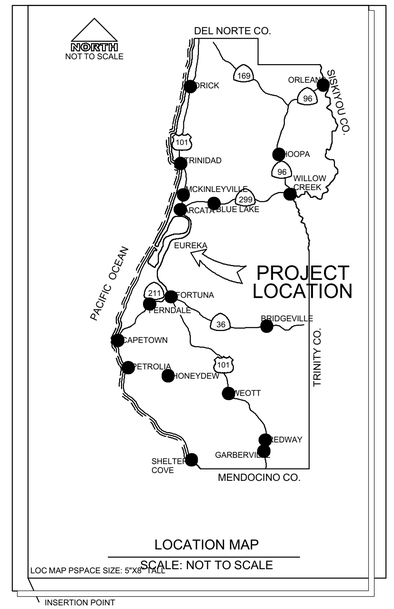




LEGEND

- TREE
- SHRUB
- HEDGE
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- STORM DRAIN DI
- WATER VALVE
- HOSE BIB
- HANDICAPPED PARKING
- SIGN
- FLAG POLE
- UTILITY POLE
- GAS METER
- WATER METER
- DOOR SWING
- ELECTRICAL METER
- BUILDING
- FENCE
- ELECTRICAL LINE
- EDGE OF TRAVELED WAY
- PROPERTY BOUNDARY

G-002

Date: 11/18/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.dwg

SURVEYOR'S LEGEND

PROJECT PROPERTY BOUNDARY

ADJACENT BOUNDARY LINES

SIDELINE OR EASEMENT

EXISTING TREES

TREE DRIPLINE

TOPOGRAPHIC SURVEY :
KEN JOHNSTON
COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
1106 2ND STREET
EUREKA, CA 95501
707-268-3786

TOPOGRAPHIC SURVEYOR'S NOTES:
1. FIELD WORK: 5/21 AND 5/28/2014 BY KEN JOHNSTON AND LOREN BLODGETT. WORKMAP: 6/19/2014 BY LOREN BLODGETT
2. BASIS OF ELEVATIONS: MEASUREMENT TAKEN BETWEEN MONUMENTS 12 AND 17 OF CITY OF EUREKA OFFICIAL MAP DATED MAY 7TH 1984.
3. RIGHT OF WAY: CITY OF EUREKA OFFICIAL MAP DATED MAY 7TH 1984.

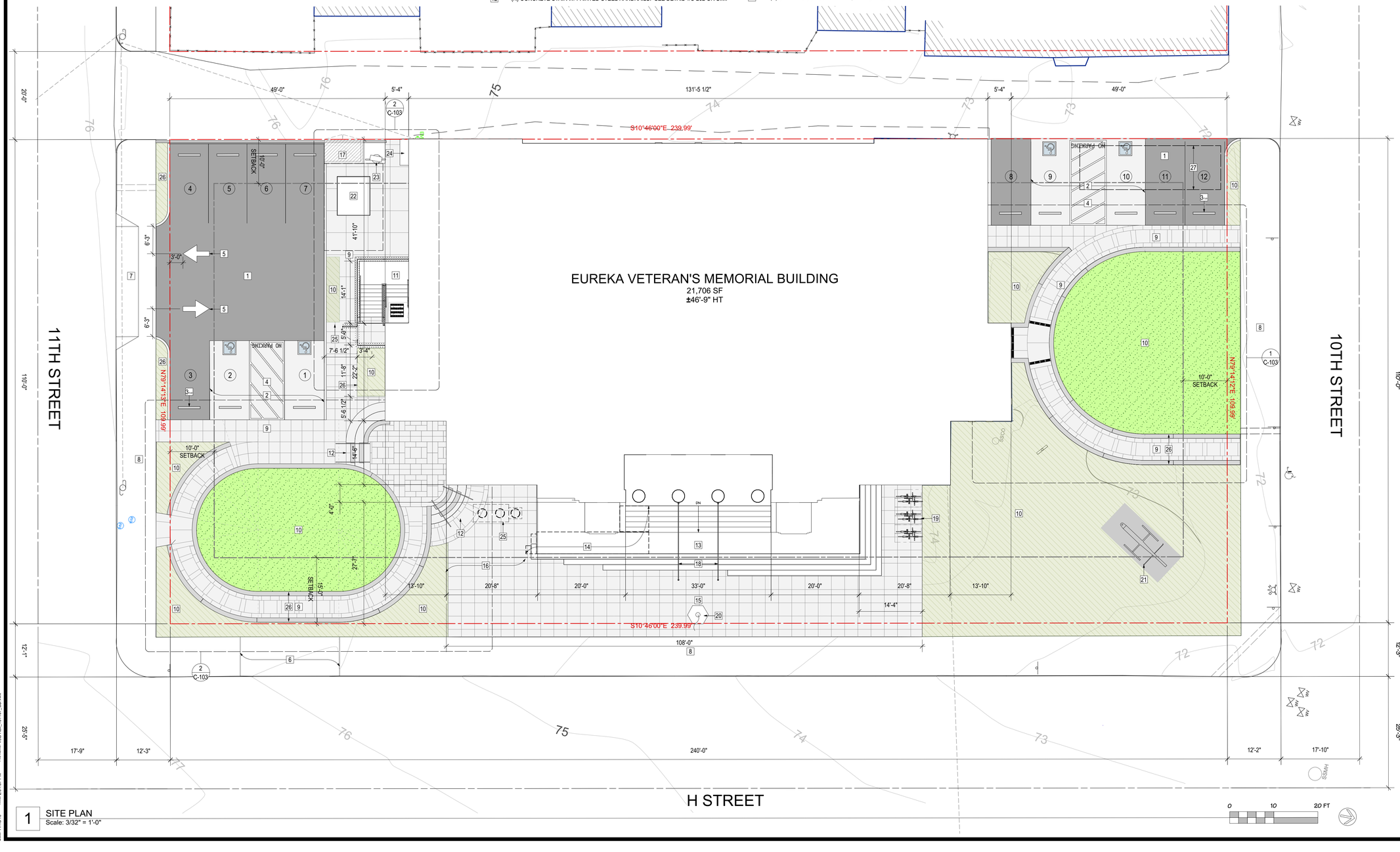
ARCHITECT'S NOTE:
THE TOPOGRAPHIC SURVEY IS FURNISHED BY THE OWNER, AS PREPARED BY A PROFESSIONAL LAND SURVEYOR. THE SURVEY HAS BEEN INCORPORATED INTO THE ARCHITECT'S DRAWINGS FOR USE IN THE DESIGN AND PREPARATION OF CONSTRUCTION DOCUMENTS, AND IS INCLUDED HERE FOR GENERAL REFERENCE ONLY. SEE LICENSED SURVEYOR'S SEALED AND SIGNED COPY FOR ALL OFFICIAL PURPOSES. THE CONTRACTOR SHALL EXERCISE PROPER PRECAUTIONS RELATING TO THE SAFE PERFORMANCE OF THE WORK WHILE RELYING ON THE ACCURACY OF THIS INFORMATION.

SITE PLAN NOTES

1. (N) ASPHALT PARKING LOT PER 8/C-201.
2. (N) REINFORCED CONCRETE PAVEMENT PER 7/C-201.
3. (N) 6FT WHEEL STOP, TYP. PER 6/C-201.
4. (N) VAN ACCESSIBLE STALLS & AISLES PER 3/C-201
5. (N) WHITE PAINT ARROW, TYP., PER 11/C-201.
6. (N) CONCRETE CURB & SIDEWALK PER CITY OF EUREKA'S STANDARDS. SEE GRADING PLAN.
7. (N) CONCRETE DRIVEWAY CUT PER CITY STANDARD DETAIL. SEE GRADING PLAN.
8. (E) 9'-0" WIDE CONCRETE CURB AND SIDEWALK w/ CONCRETE GUTTER. REPAIR AND REPLACE ANY PORTION DAMAGED DURING CONSTRUCTION TO BE REPAIR OR REPLACED BY CITY OF EUREKA STANDARDS.
9. (N) CONCRETE SIDEWALK PER 1/C-202. SEE GRADING PLAN.
10. (N) LANDSCAPING. SEE LANDSCAPE PLAN.
11. (N) CONCRETE STAIR W/ PAINTED STEEL GUARD AND HANDRAIL. SEE C-203.
12. (N) CONCRETE STAIR W/ PAINTED STEEL HANDRAILS. SEE DETAIL 4/C-202 OR SIM.
13. (E) CONCRETE STAIR & LANDING
14. REPAIR (E) CONCRETE STAIR & LANDING IN AREA DAMAGED BY RAMP REMOVAL. SEE DEMOLITION PLAN & DETAIL 3/C-202.
15. (E) WALKWAY. CLEAN, PATCH CRACKS & TRIPPING HAZARDS
16. (N) MAX 1:20 SLOPED WALKWAY PER GRADING PLAN. INCORPORATE INTO (E) WALKWAY.
17. (N) TRASH ENCLOSURE.
18. (N) HANDRAILS TO REPLACE EXISTING. SEE DETAIL 6/C-202.
19. (3) NEW BIKE RACKS PER 10/C-201
20. (E) FLAG POLE & CONCRETE BASE. STRIP, PRIME & REPAINT.
21. (E) HISTORICAL CANNON & CONCRETE PAD
22. (N) PAD MOUNT TRANSFORMER PER ELECTRICAL.
23. (E) GAS METER. SEE MECHANICAL.
24. (N) SWITCHBOARD. SEE ELECTRICAL.
25. (N) GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS
26. (N) STEPPED CONCRETE WALL, TYP. SEE C-204.
27. CONTRACTOR SHALL PROVIDE AN ACCESSIBLE 10'x32' CONDITIONED MEETING TRAILER WITH AN INTERIOR MEETING SPACE AND ONE OFFICE FOR THE EXCLUSIVE USE BY THE VETERANS GROUPS DURING THE COURSE OF CONSTRUCTION. THE TRAILER WILL BE PROVIDED WITH POWER & COMMUNICATIONS HOOKUPS. CONTRACTOR SHALL ALSO PROVIDE ON ACCESSIBLE PORTABLE TOILET AND HANDWASHING STATION ADJACENT TO THE MEETING TRAILER. THESE FACILITIES SHALL BE SECURELY FENCED AND LOCATED ON-SITE THROUGHOUT CONSTRUCTION UNTIL SUCH TIME AS THE VETERANS GROUPS MAY RE-OCCUPY THE BUILDING. THE TEMPORARY FACILITIES MAY BE MOVED TO OTHER AREAS ON-SITE DURING CONSTRUCTION TO ALLOW FOR WORK AT DIFFERENT LOCATIONS ON-SITE.

SITE PLAN NOTES:

1. REFER TO SITE DEMOLITION PLAN, SHEET C-001 FOR RELEVANT NOTES & INFORMATION NOT REPEATED HERE.
2. REFER TO SITE GRADING & DRAINAGE PLAN, SHEET C-101 FOR RELEVANT NOTES & INFORMATION NOT REPEATED HERE. THE DRAWINGS ARE COMPLIMENTARY AND MUST BE REVIEWED TOGETHER.
3. SITE ELECTRICAL, MECHANICAL & PLUMBING FOR ADDITIONAL SITE WORK



1 SITE PLAN
Scale: 3/32" = 1'-0"

0 10 20 FT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

LICENSED ARCHITECT
MIKE B. JOHNSON
C-32572
REN 12-31-17
11-10-16
STATE OF CALIFORNIA

K. BOODJEH ARCHITECTS

Consultant
K. BOODJEH ARCHITECTS
P.O. BOX 881
ARCATA, CA 95518

NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title: SITE PLAN

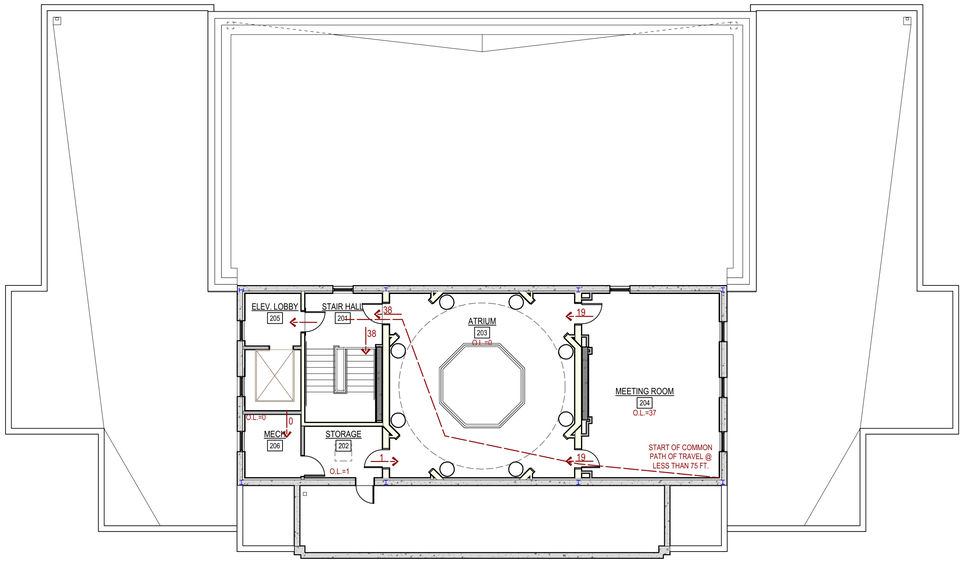
Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

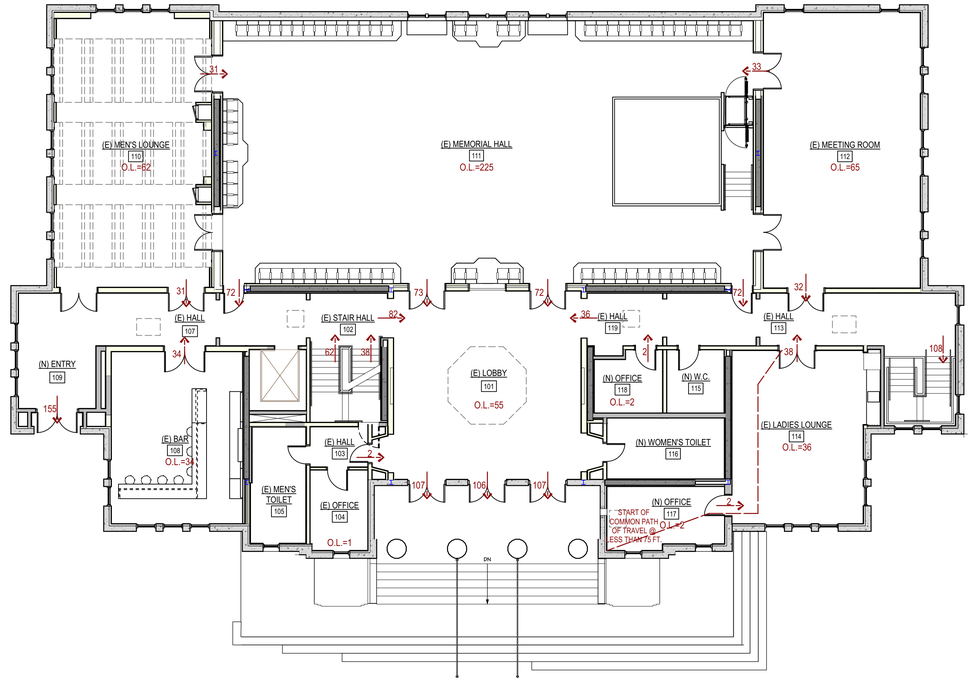
Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: G-003

Date: 11/18/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx



3 OCCUPANCY/EGRESS PLAN: MEZZANINE FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT



2 OCCUPANCY/EGRESS PLAN: FIRST FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT

OCCUPANT LOAD ANALYSIS

(TABLE 1004.1.2)

ROOM #	ROOM NAME	ROOM FUNCTION	OCCUPANCY	GROSS FLOOR AREA (SF)	NET FLOOR AREA (SF)	FLOOR AREA PER OCCUPANT (SF)	OCCUPANT LOAD	# OF REQ'D EXITS
BASEMENT FLOOR								
001	STAIR HALL	STAIR	A-2	245	-	-	-	1
002	VESTIBULE	ASSEMBLY	A-2	329	-	-	-	1
003	DINING HALL	ASSEMBLY	A-2	3091	2989	15	200	2
004	FURNACE ROOM	MECH/EQUIP	-	397	-	300	2	1
005	KITCHEN	KITCHEN	A-2	490	-	200	3	1
006	SUPPLY ROOM	ACCESSORY STORAGE	S-1	82	-	300	1	1
007	ELECT.	MECH/EQUIP	-	43	-	300	0	1
008	WOMEN'S TOILET	RESTROOM	A-2	148	-	-	-	1
009	JAN.	MECH/EQUIP	-	32	-	300	0	1
010	MEN'S TOILET	RESTROOM	A-2	152	-	-	-	1
011	HALL	ASSEMBLY	A-2	466	-	-	-	1
012	ELEVATOR	ASSEMBLY	A-2	93	-	-	-	1
013	MECH.	MECH/EQUIP	-	23	-	300	1	1
014	STORAGE	ACCESSORY STORAGE	S-1	215	-	300	1	1
015	BAR	ASSEMBLY	A-2	1928	1786	15	119	2
016	MECHANICAL	MECH/EQUIP	-	257	-	300	1	1
017	I.T.	MECH/EQUIP	-	37	-	300	0	1
018	HALL	ASSEMBLY	A-2	196	-	-	-	1
019	MECH./FIRE RISER	MECH/EQUIP	-	581	-	300	2	1
020	STORAGE	ACCESSORY STORAGE	S-1	206	-	300	1	1
021	ENTRY	ASSEMBLY	A-2	1100	-	-	-	1
		BASEMENT FLR TOTAL:		10111			331	
FIRST FLOOR								
101	LOBBY	ASSEMBLY	A-3	883	816	15	55	2
102	STAIR HALL	STAIR	A-3	253	-	-	0	1
103	HALL	ACCESSORY	A-3	60	-	-	0	1
104	OFFICE	BUSINESS	B	114	-	100	2	1
105	MEN'S TOILET	RESTROOM	A-3	167	-	-	-	1
107	HALL	ASSEMBLY	A-3	284	-	-	-	1
108	BAR	ASSEMBLY	A-2	548	507	15	34	1
109	ENTRY	ASSEMBLY	A-3	280	-	-	-	1
110	MEN'S LOUNGE	ASSEMBLY	A-3	1025	930	15	62	2
111	MEMORIAL HALL	ASSEMBLY	A-3	3252	2352	15	157+68 FIXED	2
112	MEETING ROOM	ASSEMBLY	A-3	1022	962	15	65	2
113	HALL	ACCESSORY	A-3	380	-	-	-	1
114	LADIES LOUNGE	ASSEMBLY	A-3	573	536	15	36	1
115	W.C.	RESTROOM	A-3	97	-	-	-	1
116	WOMEN'S TOILET	RESTROOM	A-3	181	-	-	-	1
117	OFFICE	BUSINESS	B	184	-	100	2	2
118	OFFICE	BUSINESS	B	114	-	100	2	1
119	HALL	MECH/EQUIP	A-3	115	-	-	-	1
		FIRST FLR TOTAL:		9512			483	
MEZZANINE FLOOR								
201	STAIR HALL	STAIR	A-3	249	-	-	0	-
202	STORAGE	ACCESSORY STORAGE	S-1	103	-	300	0	0
203	EXHIBIT LOBBY	ASSEMBLY	A-3	694	-	-	-	1
204	MEETING ROOM	ASSEMBLY	A-3	600	545	15	37	1
205	ELEV. LOBBY	ASSEMBLY	A-3	78	-	-	-	1
206	MECH	MECH/EQUIP	-	92	-	300	0	1
		MEZZANINE FLR TOTAL:		1816			38	
		WHOLE BUILDING TOTAL OCCUPANT LOAD:					**852**	

ASSEMBLY-CONCENTRATED (CHAIRS-NOT FIXED): 7 NET SF/PERSON
ASSEMBLY-UNCONCENTRATED (TABLES & CHAIRS): 15 NET SF/PERSON
BUSINESS: 100 GROSS SF/PERSON
KITCHENS (COMMERCIAL): 200 GROSS SF/PERSON
ACCESSORY STORAGE/ MECH: 300 GROSS SF/PERSON

OCCUPANCY TYPE AREAS

LEVEL	ASSEMBLY (A-2)		ASSEMBLY (A-3)		BUSINESS (B)		STORAGE (S-1)		MECH (ACCESSORY)		LEVEL AREA
	AREA	% OF TOTAL	AREA	% OF TOTAL	AREA	% OF TOTAL	AREA	% OF TOTAL	AREA	% OF TOTAL	
BASEMENT	8238	81%	0	0%	0	0%	503	5%	1370	14%	10111
FIRST FLOOR	548	6%	8552	90%	412	4%	0	0%	0	0%	9512
MEZZANINE	0	0%	1621	89%	0	0%	103	6%	92	5%	1816
TOTAL	**8786**	**41%**	**10173**	**47%**	**412**	**2%**	**606**	**3%**	**1462**	**7%**	**21439**

MIXED OCCUPANCY RATIO CALCULATIONS CBC 508.4.2

NOT REQUIRED FOR NON-SEPARATEDMEXED OCCUPANCIES

NON-SEPARATED MIXED OCCUPANCIES (CBC 508.3.2):

• THE BUILDING COMPLIES WITH THE PROVISIONS OF NONSEPARATED OCCUPANCIES, WHICH ARE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 SHALL APPLY TO THE ENTIRE BUILDING. THE ALLOWABLE BUILDING AREA AND HEIGHT SHALL BE OF THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS PER SECTION 503.1.

•THEREFORE: NO SEPARATION IS REQUIRED BETWEEN OCCUPANCIES.

•CBC TABLE 508.4 SHALL NOT APPLY.

OCCUPANCY SEPARATIONS

ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY AND SHALL NOT OCCUPY MORE THAN 10% OF THE BUILDING AREA OF THE STORY IN WHICH THEY ARE LOCATED.

OCCUPANCY/EGRESS PLAN KEY

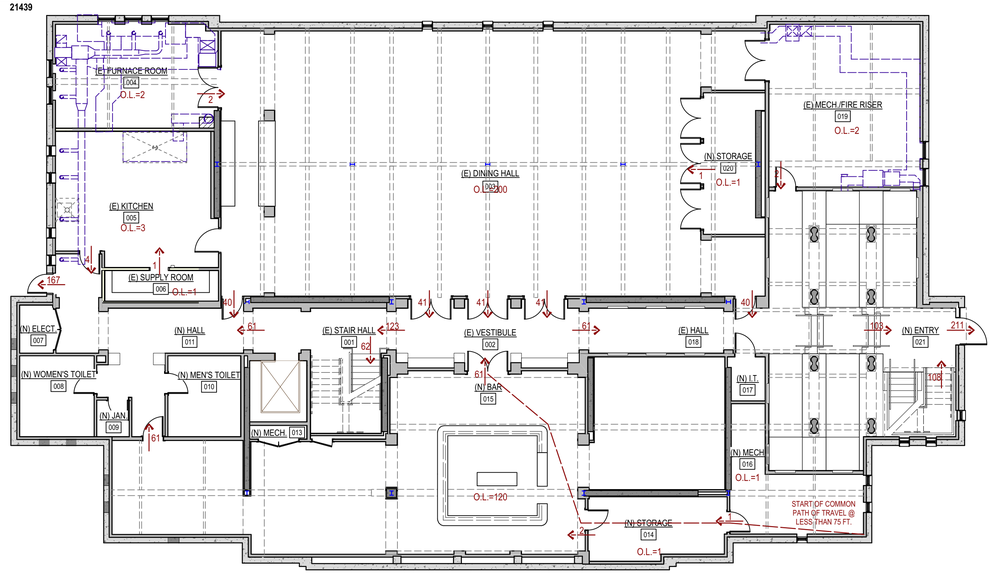
O.L. =# OCCUPANT LOAD FOR THE SPECIFIED ROOM. NOT INCLUDING CUMULATIVE OCCUPANTS USING THAT ROOM AS EGRESS.

→ CUMULATIVE OCCUPANT LOAD UTILIZING THAT EXIT

OCCUPANT LOAD:

1. THE OCCUPANT LOAD OF EACH ROOM OR SPACE AS DEPICTED IN THE PLANS ARE BASED ON THE MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT PER CBC TABLE 1004.1.2.

2. POST OCCUPANT LOAD IN EACH ASSEMBLY SPACE IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT WITH A SIGN OF AN APPROVED LEGIBLE PERMANENT DESIGN. REFER TO PLAN FOR PROPOSED LOCATIONS TO BE VERIFIED AND APPROVED BY THE OWNER OR AUTHORIZED AGENT SHALL MAINTAIN THE SIGN AS REQUIRED PER CBC 1004.3.



1 OCCUPANCY/EGRESS PLAN: BASEMENT FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

LICENSED ARCHITECT
MIKE B. JOHNSON
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REN 8-31-17
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STATE OF CALIFORNIA

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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

CODE REVIEW

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

Project ID 210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. G-004

File name: Vets Hall_161107_CD.vwx
Time: 2:01:37 PM
Date: 11/10/16

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
Requirements			
Project meets all of the requirements of Divisions 5.1 through 5.5.	☒	☐	☐
Planning and Design			
Site Selection			
A5.103.1 Community connectivity. Locate project on a previously developed site within a 1/2-mile radius of at least ten basic services, listed in Section A5.103.1.		☐	☐
A5.103.2 Brownfield or greyfield site redevelopment or infill area development. Select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.102. **A5.103.3.1 Brownfield redevelopment.** Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.		☐	☐
Site Preservation			
A5.104.1.1 Local zoning requirement in place. Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent.		☐	☐
A5.104.1.2 No local zoning requirement in place. Provide vegetated open space area adjacent to the building equal to the building footprint area.		☐	☐
A5.104.1.3 No open space required in zoning ordinance. Provide vegetated open space equal to 20 percent of the total project site area.		☐	☐
Deconstruction and Reuse of Existing Structures			
A5.105.1.1 Existing building structure. Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area. **Exceptions:** 1. Window assemblies and nonstructural roofing material. 2. Hazardous materials that are remediated as a part of the project. 3. A project with an addition of more than two times the square footage of the existing building.		☐	☐
A5.105.1.2 Existing nonstructural elements. Reuse existing interior nonstructural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions). **Exception:** A project with an addition of more than two times the square footage of the existing building.		☐	☐
A5.105.1.3 Salvage. Salvage additional items in good condition such as light fixtures, plumbing fixtures and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document the weight or number of the items salvaged.		☐	☐
Site Development			
5.106.1 Storm water pollution prevention. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through local ordinance in Section 5.106.1.1 or Best management practices (BMP) in Section 5.106.1.2.	☒ or ☒		
A5.106.2 Storm water design. Design storm water runoff rate and quantity in conformance with Section A5.106.3.1 and storm water runoff quality by Section A5.106.3.2 or by local requirements, whichever are stricter. **A5.106.2.1 Storm water runoff rate and quantity.** Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions. **Exception:** If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25-percent decrease in rate and quantity.		☐	☐
A5.106.2.2 Storm water runoff quality. Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter or treat) storm water runoff from the 85th percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85th percentile hourly intensity (for flow-based BMPs).		☐	☐
A5.106.3 Low impact development (LID). Reduce peak runoff in compliance with Section 5.106.3.1. Employ at least two of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air or collect in storage receptacles for irrigation or other beneficial uses. LID strategies include, but are not limited to those listed in Section A5.106.4.		☐	☐

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.106.4 Bicycle parking. Comply with Sections 5.106.4.1, 4.106.4.1 and 5.106.4.1.2; or meet local ordinance, whichever is stricter.	☒		
5.106.4.1.1 Short-term bicycle parking. If the new project or addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.	☒		
5.106.4.1.2 Long-term bicycle parking. For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking spaces being added, with a minimum of one space. See exception for addition or alterations.	☒		
A5.106.4.3 Changing rooms. For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3 or document arrangements with nearby changing/shower facilities.		☐	☐
A5.106.5.1 Designated parking for fuel-efficient vehicles. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in: **A5.106.5.1.1. Tier 1 10% of total spaces** per Table A5.106.5.1.1.		☒	
A5.106.5.1.2. Tier 2 12% of total spaces per Table A5.106.5.1.2.			☒
5.106.5.2 Designated parking. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2.	☒		
A5.106.5.3.1 Single charging space requirements. When only a single charging space is required, install a listed raceway capable of accommodating a dedicated branch circuit. The raceway shall not be less than trade size 1. The raceway shall be securely fastened at the main service or subpanel and shall terminate in close proximity to the proposed location of the charging system into a listed cabinet, box or enclosure. **Exception:** Other pre-installation methods approved by the local enforcing agency that provide sufficient conductor sizing and service capacity to install Level 2 EVSE.		☐	☐
A5.106.5.3.2 Multiple charging spaces required. When multiple charging spaces are required, plans shall include the location(s) and type of the EVSE, raceway method(s), wiring schematics and electrical calculations to verify that the electrical system has sufficient capacity to charge simultaneously all the electrical vehicles at all designated EV charging spaces at their full rated amperage. Plan design shall be based upon Level 2 EVSE at its maximum operating ampacity. Provide raceways from the electrical service panel to the designated parking areas which are required to be installed at the time of construction. **Note:** Utilities and local enforcing agencies may have additional requirements for metering and EVSE installation, and should be consulted during the project design and installation.		☐	☐
A5.106.5.3.3 Tier 1. At least 3 percent of the total parking spaces, but not less than one, shall be capable of supporting installation of future electric vehicle supply equipment (EVSE).		☐	
A5.106.5.3.4 Tier 2. At least 5 percent of the total parking spaces, but not less than two, shall be capable of supporting installation of future EVSE.			☐
A5.106.5.3.5 Labeling requirement. A label stating "EV CHARGE CAPABLE" shall be posted in a conspicuous place at the service panel or subpanel and the EV charging space.		☐	☐
A5.106.6 Parking capacity. Design parking capacity to meet but not exceed minimum local zoning requirements. **A5.106.6.1 Reduce parking capacity.** With the approval of the enforcement authority, employ strategies to reduce on-site parking area by 1. Use of on street parking or compact spaces, illustrated on the site plan or		☐	☐
2. Implementation and documentation of programs that encourage occupants to carpool, ride share or use alternate transportation.		☐	☐
A5.106.7 Exterior walls. Meet requirements in the current edition of the *California Energy Code* and comply with either Section A5.106.7.1 or A5.106.7.2 for wall surfaces: **A5.106.7.1 Fenestration.** Provide vegetative or man-made shading devices for all fenestration on east-, south- and west-facing walls. **A5.106.7.1.1 East and west walls.** Shading devices shall have 30% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.		☐	☐
A5.106.7.1.2 South walls. Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.		☐	☐
A5.106.7.2 Opaque wall areas. Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.		☐	☐

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.106.8 Light pollution reduction. [N] Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the *California Energy Code* for Lighting Zones 1–4 as defined in Chapter 10 of the *California Administrative Code*; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent. **Exceptions: [N]** 1. Luminaires that qualify as exceptions in Section 147 of the *California Energy Code* 2. Emergency lighting	☒ or ☒		
5.106.10 Grading and paving. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1–5. See exception for additions or alterations.	☒		
A5.106.11 Heat island effect. Reduce nonroof heat islands and roof heat islands as follows: **A5.106.11.1 Hardscape alternatives.** Use one or a combination of strategies 1 through 3 for 50 percent of site hardscape or put 50 percent of parking underground.		☐	☐
1. Use light colored materials with an initial solar reflectance value of at least .30 as determined in accordance with ASTM Standards E 1918 or C 1549.		☐	☐
2. Use open-grid pavement system or pervious or permeable pavement system.		☐	☐
A5.106.11.2 Cool roof for reduction of heat island effect. Use roofing materials having a minimum aged solar reflectance, thermal emittance complying with Sections A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged or Solar Reflectance Index (SRI)3 equal to or greater than the values shown in:		☐	☐
Table A5.106.11.2.2 – Tier 1 or		☒	
Table A5.106.11.2.3 – Tier 2 **Exceptions:** 1. Roof constructions that have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 lb/sf. 2. Roof area covered by building integrated solar photovoltaic and building integrated solar thermal panels.			☒

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
Energy Efficiency			
Performance Requirements			
5.201.1 Scope. Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.3	☒	☒[2]	☒[2]
A5.203.1 Energy efficiency. Nonresidential, high-rise residential and hotel/motel buildings that include lighting and/or mechanical systems shall comply with Sections A5.203.1.1 and either A5.203.1.2.1 or A5.203.1.2.2. Newly constructed buildings, as well as additions and alterations, are included in the scope of these sections. Buildings permitted without lighting or mechanical systems shall comply with Section A5.203.1.1 but are not required to comply with Sections A5.203.1.1.2 or A5.203.1.2.		☐	☐
A5.203.1.1.1 Outdoor lighting. Newly installed outdoor lighting power is no greater than 90 percent of the Title 24, Part 6 calculated value of allowed outdoor lighting power.		☒[2]	☒[2]
A5.203.1.1.2 Service water heating in restaurants. Newly constructed restaurants 8,000 square feet or greater and with service water heaters rated 75,000 Btu/h or greater installed a solar water-heating system with a minimum solar savings fraction of 0.15 or meet one of the exceptions.		☒[2]	☒[2]
A5.203.1.1.3 Functional areas where compliance with residential lighting standards is required. For newly constructed high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.203.1.1.3. For additions and alterations to high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.204.1.1.1.		☒[2]	☒[2]
A5.203.1.2.1 Tier 1. For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 95 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.		☒[2]	
A5.203.1.2.2 Tier 2. For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.			☒[2]
Renewable Energy			
A5.211.1 On-site renewable energy. Use on-site renewable energy for at least 1 percent of the electrical service overcurrent protection device rating calculated in accordance with the 2013 *California Electrical Code* or 1KW, whichever is greater, in addition to the electrical demand required to meet 1 percent of natural gas and propane use calculated in accordance with the 2013 *California Plumbing Code.* **A5.211.1.1 Documentation.** Calculate renewable on-site system to meet the requirements of Section A5.211.1. Factor in net-metering, if offered by local utility, on an annual basis. **A5.211.3 Green power.** Participate in the local utility's renewable energy portfolio program that provides a minimum of 50-percent electrical power from renewable sources. Maintain documentation through utility billings.		☐	☐
Elevators, Escalators and Other Equipment			
A5.212.1 Elevators and escalators. In buildings with more than one elevator or two escalators, provide systems and controls to reduce the energy demand of elevators and escalators as follows. Document systems operation and controls in the project specifications and commissioning plan. **A5.212.1.1 Elevators.** Traction elevators shall have a regenerative drive system that feeds electrical power back into the building grid when the elevator is in motion. **A5.212.1.1.1 Car lights and fan.** A parked elevator shall turn off its car lights and fan automatically until the elevator is called for use.		☐	☐
A5.212.1.2 Escalators. An escalator shall have a variable voltage variable frequency (VVVF) motor drive system that is fully regenerative when the escalator is in motion.		☐	☐
A5.212.1.4 Controls. Controls that reduce energy demand shall meet requirements of CCR, Title 8, Chapter 4, Subchapter 6 and shall not interrupt emergency operations for elevators required in CCR, Title 24, Part 2, *California Building Code.*		☐	☐

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
Energy Efficient Steel Framing			
A5.213.1 Steel framing. Design for and employ techniques to avoid thermal bridging.		☐	☐
Water Efficiency and Conservation			
Indoor Water Use			
5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2. **5.303.1.1 New buildings or additions in excess of 50,000 square feet.** Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day.	☒		
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s)	☒		
b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s)	☒		
c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW)	☒		
5.303.1.2 Excess consumption. Any tenant within a new building or an addition that is projected to consume more than 1,000 gal/day (3800 L/day).	☒		
5.303.2 Water reduction. Plumbing fixtures shall meet the maximum flow rate values shown in Table 5.303.2.3.	☒		
Exception: Buildings that demonstrate 20-percent overall water use reduction. In this case, a calculation demonstrating a 20-percent reduction in the building "water use baseline," as established in Table 5.303.2.2, shall be provided. **5.303.2.1 Areas of additions or alteration.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall apply to new fixtures in additions or areas of alterations to the building.	☒		
A5.303.2.3.1 Tier 1 – 30-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided.		☒	
A5.303.2.3.2 Tier 2 – 35-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 35 percent shall be provided.		☒	
A5.303.2.3.3 Forty-percent savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 40 percent shall be provided.			☒
(Calculate savings by Water Use Worksheets) **A5.303.2.3.4 Nonpotable water systems for indoor use.** Utilizing nonpotable water systems (such as captured rainwater, treated graywater, and recycled water) intended to supply water closets, urinals, and other allowed uses, may be used in the calculations demonstrating the 30, 35 or 40 percent reduction. The nonpotable water systems shall comply with the current edition of the *California Plumbing Code.*		☐	
5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:	☒		
5.303.3.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. **Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.	☒		
5.303.3.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush.	☒		
5.303.3.3 Showerheads.	☒		
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.	☒		
5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. **Note:** A hand-held shower shall be considered a showerhead.	☒		

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
A5.303.3 Appliances.			
1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water.		☐	☐
2. Dishwashers shall meet the criteria in Section A5.303.3(2)(a) and (b).		☐	☐
3. Ice makers shall be air cooled.		☐	☐
4. Food steamers shall be connectionless or boilerless.		☐	☐
5. The use and installation of water softeners shall be limited or prohibited by local agencies.		☐	☐
6. Combination ovens shall not consume more than 10 gph (38 L/h) in the full operational mode.		☐	☐
7. Commercial pre-rinse spray valves manufactured on or after January 1, 2006 shall function at equal to or less than 1.6 gpm (0.10 L/s) at 60 psi (414 kPa) and a. Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate b. Be equipped with an integral automatic shutoff c. Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gpm (0.08 L/s) or less		☐	☐
5.303.4 Wastewater reduction. [N] Each building shall reduce the generation of wastewater by one of the following methods: 1. The installation of water-conserving fixtures or 2. Utilizing nonpotable water systems.	As applicable ☒ ☒		
A5.303.5 Dual plumbing. New buildings and facilities shall be dual plumbed for potable and recycled water systems.		☐	☐
5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1401.1 of the *California Plumbing Code* and in Chapter 6 of this code.	As applicable ☒		
Outdoor Water Use			
5.304.1 Water budget. A water budget shall be developed for landscape irrigation use.[3] Applies to additions or alterations.	☒		
5.304.2 Outdoor potable water use. For new water service, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet, separate submeters shall be installed for outdoor potable water use. Applies to additions or alterations.	☒		
A5.304.2.1 Outdoor potable water use. For new water service not subject to the provisions of *Water Code* Section 535, separate meters or submeters shall be installed for outdoor potable water use for landscaped areas of at least 500 square feet but not more than 1,000 square feet (the level at which Section 5.304.2 applies).		☐	☐
5.304.3 Irrigation design. In new nonresidential projects with at least 1,000 square feet but not more than 2,500 square feet of landscaped area (the level at which the MLO applies), install irrigation controllers and sensors which include the following criteria and meet manufacturer's recommendations. Applies to additions or alterations. **5.304.3.1 Irrigation controllers.** Automatic irrigation system controllers installed at the time of final inspection shall comply with the following: 1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. 2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.	☒ As applicable ☒		
A5.304.4 Potable water reduction. Provide water efficient landscape irrigation design that reduces by the use of potable water. **A5.304.4.1 Tier 1** – Reduce the use of potable water to a quantity that does not exceed 60 percent of ETo times the landscape area.		☒	
A5.304.4.2 Tier 2 –Reduce the use of potable water to a quantity that does not exceed 55 percent of ETo times the landscape area. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in A5.304.4.			☒
A5.304.4.3 Verification of compliance. A calculation demonstrating the applicable potable water use reduction required by this section shall be provided.		☒	☒
A5.304.5 Potable water elimination. Provide a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in Section A5.304.4.		☐	☐

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
A5.304.6 Restoration of areas disturbed by construction. Restore all areas disturbed during construction by planting with local native and/or noninvasive vegetation.		☐	☐
A5.304.7 Previously developed sites. On previously developed or graded sites, restore or protect at least 50 percent of the site area with native and/or noninvasive vegetation.		☐	☐
A5.304.8 Graywater irrigation system. Install graywater collection system for onsite subsurface irrigation using graywater.		☐	☐
Water Reuse			
A5.305.1 Nonpotable water systems. Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the *California Plumbing Code.*		☐	☐
A5.305.2 Irrigation systems. Irrigation systems regulated by a local water efficient landscape ordinance or by the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) shall use recycled water.		☐	☐
Material Conservation and Resource Efficiency			
Efficient Framing Systems			
A5.404.1 Wood framing. Employ advanced wood framing techniques or OVE, as permitted by the enforcing agency.		☐	☐
Material Sources			
A5.405.1 Regional materials. Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in Section A5.405.1.		☐	☐
A5.405.2 Bio-based materials. Select bio-based building materials per Section A5.405.2.1 or A5.405.2.2. **A5.405.2.1 Certified wood products.** Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code cycle.		☐	☐
A5.405.2.2 Rapidly renewable materials. Use materials made from plants harvested within a ten-year cycle for at least 2.5 percent of total materials value, based on estimated cost.		☐	☐
A5.405.3 Reused materials. Use salvaged, refurbished, refinished or reused materials for at least 5 percent of the total value, based on estimated cost of materials on the project.		☐	☐
A5.405.4 Recycled content. Use materials, equivalent in performance to virgin materials, with a total (combined) recycled content value (RCV) of: **Tier 1.** The RCV shall not be less than 10 percent of the total material cost of the project.		☒	
Tier 2. The RCV shall not be less than 15 percent of the total material cost of the project.			☒
Note: Use the equations in the subsections for calculating total materials cost, recycled content, RCV of materials and assemblies, and total RCV.		☐	☐
A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the following sections: **A5.405.5.1 Cement.** Cement shall comply with one of the following standards: 1. Portland cement shall meet ASTM C 150. 2. Blended hydraulic cement shall meet ASTM C 595. 3. Other Hydraulic Cements shall meet ASTM C 1157.		☐	☐
A5.405.5.2 Concrete. Unless otherwise directed by the Engineer of Record, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the enforcing agency.		☐	☐
A5.405.5.2.1 Supplementary cementitious materials (SCMs). Use concrete made with one or more of the SCMs listed in Section A5.405.5.2.1. **A5.405.5.2.1.1 Mix design equation.** Use any combination of one or more SCMs, satisfying Equation A4.5-14. **Exception:** Minimums in mix designs approved by the Engineer of Record may be lower where high early strength is needed. **A5.405.5.3 Additional means of compliance.** Any of the following measures shall be permitted to be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with Section A5.405.5.2. **A5.405.5.3.1 Cement.** The following measures may be used in the manufacture of cement.		☐	☐
A5.405.5.3.1.1 Alternative fuels. Where permitted by state or local air quality standards.		☐	☐
A5.405.5.3.1.2 Alternative power. Alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of Section A5.211.			☐

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
A5.405.5.3.2 Concrete. The following measures may be used in the manufacture of concrete, **A5.405.5.3.2.1 Alternative energy.** Renewable or alternative energy meeting the requirements of Section A5.211.		☐	☐
A5.405.5.3.2.2 Recycled aggregates. Concrete made with one or more of the materials listed in Section A5.405.5.3.2.2.		☐	☐
A5.405.5.3.2.3 Mixing water. Water recycled by the local water purveyor or water reclaimed from manufacturing processes and conforming to ASTM C 1602.		☐	☐
A5.405.5.3.2.4 High strength concrete. Concrete elements designed to reduce their total size compared to standard 3,000 psi concrete, as approved by the Engineer of Record.		☐	☐
Enhanced Durability and Reduced Maintenance			
A5.406.1.1 Service life. Select materials for longevity and minimal deterioration under conditions of use.		☐	☐
A5.406.1.2 Reduced maintenance. Select materials that require little, if any, finishing.		☐	☐
A5.406.1.3 Recyclability. Select materials that can be re-used or recycled at the end of their service life.		☐	☐
Weather Resistance and Moisture Management			
5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code,* Section 1403.2 and *California Energy Code,* Section 150, manufacturer's installation instructions or local ordinance, whichever is more stringent.[3]	☒		
5.407.2 Moisture control. Employ moisture control measures by the following methods; **5.407.2.1 Sprinklers.** Prevent irrigation spray on structures.	☒		
5.407.2.2 Entries and openings. Design exterior entries and openings to prevent water intrusion into buildings.	☒		
Construction Waste Reduction, Disposal and Recycling			
5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 50% of the non- hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.	☒ or		
5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that complies with Items 1 through 4 of this section.	☒		
5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section. **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** 1. Excavated soil and land-clearing debris 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets	☒		
5.408.1.4 Documentation. Provide documentation of the waste management plan that meets the requirements listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority.	☒		
5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. **Exception:** Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.	☒		

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
A5.408.3.1 Enhanced construction waste reduction–Tier 1. Divert to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the site.		☒	
A5.408.3.1.1 Enhanced construction waste reduction–Tier 2. Divert to recycle or salvage at least 80% of nonhazardous construction waste generated at the site.			☒
A5.408.3.1.2 Verification of compliance. A copy of the completed waste management report or documentation of certification of the waste management company utilized shall be provided. **Exceptions:** 1. Excavated soil and land-clearing debris 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.		☒	☒
Life Cycle Assessment			
A5.409.1 General. Life cycle assessment shall be ISO 14044 compliant. The service life of the building and materials assemblies shall not be less than 60 years.		☐	☐
A5.409.2 Whole building life cycle assessment. Conduct a whole building life assessment, including operating energy, showing that the building project achieves at least a 10-percent improvement for at least three of the impacts listed in Section A5.409.2.2, one of which shall be climate change, compared to a reference building.		☐	☐
A5.409.3 Materials and system assemblies. If whole building analysis of the project is not elected, select a minimum of 50% of materials or assemblies based on life cycle assessment of at least three for the impacts listed in Section A5.409.2.2, one of which shall be climate change.		☐	☐
A5.409.4 Substitution for prescriptive standards. Performance of a life cycle assessment completed in accordance with Section A5.409.2 may be substituted for other prescriptive provisions of Division A5.4, including those made mandatory through local adoption of Tier 1 or Tier 2 in Division A5.6.		☐	☐
A5.409.5 Verification of compliance. Documentation of compliance shall be provided as follows: 1. The assessment is performed in accordance with ISO 14044.		☐	☐
2. The project meets the requirements of other parts of Title 24.		☐	☐
3. A copy of the analysis shall be made available to the enforcement authority.		☐	☐
4. A copy of the analysis and any maintenance or training recommendations shall be included in the operation and maintenance manual. See notes for available tools.		☐	☐
Building Maintenance and Operation			
5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling.[3] **5.410.1.1 Additions. [A]** All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recyling areas on site. **Exception:** Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.	☒		
5.410.2 Commissioning. [N] For new buildings 10,000 square feet and over, building commissioning for all building systems covered by Title 24, Part 6, process systems and renewable energy systems shall be included in the design and construction processes of the building project. Commissioning requirements shall include items listed in Section 5.410.2. **Exceptions:** 1. Dry storage warehouses of any size 2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses 3. Tenant improvements under 10,000 square feet as described in Section 303.1.1.	☒		
5.410.2.1 Owner's Project Requirements (OPR). [N] Documented before the design phase of the project begins the OPR shall include items listed in Section 5.410.4.	☒		
5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in Section 5.410.2.2.	☒		
5.410.2.3 Commissioning plan. [N] A commissioning plan describing how the project will be commissioned shall include items listed in Section 5.410.2.3.	☒		
5.410.2.4 [N] Functional performance testing shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications.	☒		
5.410.2.5 Documentation and training. [N] A Systems manual and systems operations training are required. **5.410.2.5.1 Systems manual. [N]** The systems manual shall be delivered to the building owner or representative and facilities operator and shall include the items listed in Section 5.410.2.5.1.	☒ ☒		
5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in Section 5.410.2.5.2.	☒		
5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.	☒		

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NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.410.4 Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet. Applies to new systems serving additions or alterations.	☒		
5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the systems listed in Section 5.410.4.2.	☒		
5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.	☒		
5.410.4.3.1 HVAC balancing. Before a new space-conditioning system serving a building or space is operated for normal use, balance in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency.	☒		
5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.	☒		
5.410.4.5 Operation and maintenance manual. Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.	☒		
5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.	☒		
Environmental Quality			
Fireplaces			
5.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove and refer to residential requirements in the *California Energy Code,* Title 24, Part 6, Subchapter 7, Section 150.	☒ As applicable		
5.503.1.1 Woodstoves. Woodstoves shall comply with US EPA Phase II emission limits, where applicable.	☒		
Pollutant Control			
A5.504.1 Indoor air quality (IAQ) during construction. Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2. **A5.504.1.1 Temporary ventilation.** Provide temporary ventilation during construction in accordance with Section 121 of the *California Energy Code,* CCR, Title 24, Part 6 and Chapter 4 of CCR, Title 8 and as listed in Items 1 and 2 in Section A5.504.1.2.		☐	☐
A5.504.1.2 Additional IAQ measures. Employ additional measures as listed in Items 1 through 5 in Section A5.504.1.3.		☐	☐
5.504.1.3 Temporary ventilation. If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy. Applies to additions or alterations.	☒		
A5.504.2 IAQ postconstruction. Flush out the building per Section A5.504.2 prior to occupancy or if the building is occupied.		☐	☐
A5.504.2.1 IAQ Testing. A testing alternative may be employed after all interior finishes have been installed, using testing protocols recognized by the United State Environmental Protection Agency (U.S. EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3. **A5.504.2.1.1 Maximum levels of contaminants.** Allowable levels of contaminant concentrations measured by testing shall not exceed the following:		☐ As applicable	☐ As applicable
1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million;		☐	☐
2. Formaldehyde: 27 parts per billion;		☐	☐
3. Particulates (PM10): 50 micrograms per cubic meter;		☐	☐
4. 4-Phenylcyclohexene (4-PCH): 6.5 micrograms per cubic meter; and		☐	☐
5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter.		☐	☐
A5.504.2.1.2 Test protocols. Testing of indoor air quality should include the elements listed in Items 1 through 4.		☐	☐
A5.504.2.1.3 Noncomplying building areas. For each sampling area of the building exceeding the maximum concentrations specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance.		☐	☐

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.	☒		
5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4. **5.504.4.1 Adhesives, sealants, caulks.** Adhesives and sealants used on the project shall meet the requirements of the following standards. 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2.	☒		
2. Aerosol adhesives and smaller unit sizes of adhesives and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.	☒		
5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with Table 5.504.4.3 unless more stringent local limits apply.	☒		
5.504.4.3.1 Aerosol paints and coatings. Aerosol paints and coatings shall meet the Product- Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520, et seq.).	☒		
5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency.	☒		
5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4.	☒		
5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.	☒		
5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.	☒		
5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in Table 5.504.4.5.	☒		
A5.504.4.5.1 Early compliance with formaldehyde limits, Tier 1. Meet the requirements contained in Table A5.504.8.5 before the compliance dates.		☒	
A5.504.4.5.2 No added formaldehyde, Tier 2. Use composite wood products approved by the ARB as no-added formaldehyde (NAF) based resins or ultra-low emitting formaldehyde (ULEF) resins.			☒
5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:	☒ As applicable	☐	☐
1. Product certifications and specifications.	☒		
2. Chain of custody certifications.	☒		
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).	☒		
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.	☒		
5. Other methods acceptable to the enforcing agency.	☒		
5.504.4.6 Resilient flooring systems. Comply with the VOC-emission limits defined in the 2012 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification.	☒		
A5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.	☒		
A5.504.4.7 Resilient flooring systems, Tier 1. For 90 percent of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification 01350.		☒	
A5.504.4.7.1 Resilient flooring systems, Tier 2. For 100 percent of floor area to scheduled to receive resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification 01350.			☒
A5.504.4.7.2 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.		☒	☒
A5.504.4.8 Thermal insulation, Tier 1. Comply with the standards listed in Items 1 through 3.		☒	
A5.504.4.8.1 Thermal insulation, Tier 2. Install thermal insulation which complies with Tier 1 plus does not contain any added formaldehyde.			☒
A5.504.4.8.2 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.		☒	☒

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
A5.504.4.9 Acoustical ceilings and wall panels. Comply with Chapter 8 in Title 24, Part 2 and with the VOC- emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database.		☐	☐
A5.504.4.9.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.		☐	☐
A5.504.5 Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into buildings and cross-contamination of regularly occupied areas. **A5.504.5.1 Entryway systems.** Install permanent entryway systems measuring at least six feet in the primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as listed in Items 1 through 3 in Section A5.504.5.1.		☐	☐
A5.504.5.2 Isolation of pollutant sources. In rooms where activities produce hazardous fumes or chemicals, exhaust them and isolate them from their adjacent rooms as listed in Items 1 through 3 in Section A5.504.5.2.		☐	☐
5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a MERV of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.	☒		
Exceptions: 1.An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2013 *California Energy Code* having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. 2.Existing mechanical equipment. **5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.		☐	☐
A5.504.5.3.1 Filters. In mechanically ventitlated buildings, provide regularly occupied areas of the building with air infiltration media for outside and return air prior to occupancy that provides at least a MERV of 11.			
5.504.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows where outdoor areas are provided for smoking and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University or campus of the University of California, whichever are more stringent.	☐		
Indoor Moisture and Radon Control			
5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 and Chapter 14.1.[3]	☒		
Air Quality and Exhaust			
5.506.1 Outside air delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 of the *California Energy Code* and Chapter 4 of CCR, Title 8 or the applicable local code, whichever is more stringent.[3]	☒		
5.506.2 Carbon dioxide (CO_2) monitoring. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the *California Energy Code*, CCR, Section 120(c)(4).[3]	☒		
Environmental Comfort			
A5.507.1 Lighting and thermal comfort controls. Provide controls in the workplace as described in Sections A5.507.1.1 and A5.507.1.2. **A5.507.1.1 Single-occupant spaces.** Provide individual controls that meet energy use requirements in the *California Energy Code* by Sections A5.507.1.1.1 and A5.507.1.1.2.		☐	☐
A5.507.1.1.1 Lighting. Provide individual task lighting and/or daylighting controls for at least 90 percent of the building occupants.		☐	☐
A5.507.1.1.2 Thermal comfort. Provide individual thermal comfort controls for at least 50 percent of the building occupants by Items 1 and 2 in Section A5.507.1.1.2.		☐	☐
A5.507.1.2 Multi-occupant spaces. Provide lighting and thermal comfort system controls for all shared multi-occupant spaces.		☐	☐
A5.507.2 Daylight. Provide daylit spaces as required for toplighting and sidelighting in the *California Energy Code.* In constructing a design, consider Items 1 through 4 in Section A5.507.3.		☐	☐

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.507.4 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.	☒		
5.507.4.1 Exterior noise transmission, prescriptive method. Wall and floor-ceiling assemblies exposed to the noise source making up the building envelope shall have exterior wall and roof ceiling assemblies meeting a composite STC rating of at least 50 or a composite OITC rating of no less than 40 with exterior windows of a minimum STC of 40 or OITC of 30 in the locations described in Items 1 and 2. Also applies to addition envelope or altered envelope.	☒		
5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq}-1Hr during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). Also applies to addition or alteration exterior wall.	☒ or		
5.507.4.2 Performance method. For buildings located as defined in Sections A5.507.4.1 or A5.507.4.1.1, wall and roof-ceiling assemblies making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation. Also applies to addition envelope or altered envelope.	☒		
5.507.4.2.1 Site features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to mitigate sound migration to the interior. Also applies to addition envelope or altered envelope.	☒		
5.507.4.2.1 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.	☒		
5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.	☒		
Outdoor Air Quality			
5.508.1 Ozone depletion and global warming reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.	As applicable		
5.508.1.1 CFCs. Install HVAC and refrigeration equipment that does not contain CFCs.[1]	☒		
5.508.1.2 Halons. Install fire suppression equipment that does not contain Halons.[1]	☒		
A5.508.1.3 Hydrochlorofluorocarbons (HCFCs). Install HVAC and refrigeration equipment that does not contain HCFCs.		☐	☐
A5.508.1.4 Hydrofluorocarbons (HFCs). Install HVAC complying with either of the following: 1. Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150.		☐	☐
2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a secondary heat transfer fluid with a global warming potential no greater than 1.		☐	☐
5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities. **Exception:** Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.	☒ As applicable		

(continued)

NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY[1]	
		CALGreen Tier 1	*CALGreen* Tier 2
5.508.2.1 Refrigerant piping. Piping compliant with the *California Mechanical Code* shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below. **5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack. **5.508.2.1.2 Copper pipe.** Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less. **5.508.2.1.2.1 Anchorage.** 1/4 inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils. **5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil. **Exception:** Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations. **5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows. **5.508.2.2 Valves.** Valves and fittings shall comply with the *California Mechanical Code* and as follows. **5.508.2.2.1 Pressure relief valves.** For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve. **5.508.2.2.1.1 Pressure detection.** A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve. **5.508.2.2.2 Access valves.** Only Schrader access valves with a brass or steel body are permitted for use. **5.508.2.2.2.1 Valve caps.** For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic. **5.508.2.2.2.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.2.1 Chain tethers.** Chain tethers to fit over the stem are required for valves designed to have seal caps. **Exception:** Valves with seal caps that are not removed from the valve during stem operation. **5.508.2.3 Refrigerated service cases.** Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances. **5.508.2.3.1. Coil coating.** Consideration shall be given the heat transfer efficiency of coil coating to maximize energy efficiency. **5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver. **5.508.2.5 Pressure testing.** The system shall be pressure tested during installation prior to evacuation and charging. **5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum. **5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same gauge. **5.508.2.5.3 Allowable pressure change.** The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge. **5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging. **5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes. **5.508.2.6.2 Second vacuum.** Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes. **5.508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.			

1. Green building measures in this table may be mandatory if adopted by a city, county, or city and county as specified in Section 101.7.
2. Required prerequisite for this Tier.
3. These measures are currently required elsewhere in statute or in regulation.

NOTES

1. THE COUNTY OF HUMBOLDT HAS NOT ADOPTED ANY VOLUNTARY CAL GREEN TIER STANDARDS. ONLY MANDATORY MEASURES REQUIRED.

Design Firm

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

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11-10-16
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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title: CALGREEN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH

Date: 11/10/16

Scale: Sheet Scale

Sheet No.: G-005

Date: 11/18/16 Time: 2:11:01 PM File name: Vets Hall_160111_CALGREEN.vwx

DEMOLITION KEY NOTES

1. REMOVE CONCRETE RAMPS, LANDINGS & ANY ASSOCIATED GUARDRAILS AND HANDRAILS.
2. REMOVE CONCRETE RETAINING WALLS
3. REMOVE STAIRS & ASSOCIATED HANDRAILS
4. REMOVE METAL FENCING
5. REMOVE CURB CUT
6. REMOVE CONCRETE CURB
7. REMOVE & SAVE GOOD QUALITY CONCRETE CURB STOPS FOR REUSE
8. REMOVE LANDSCAPING. SEE LANDSCAPE PLAN.
9. REMOVE COVERED TRASH ENCLOSURE CONSISTING OF CMU, WOOD FRAMING & CHAINLINK FENCE
10. REMOVE CONCRETE CURB
11. REMOVE CONCRETE WALKWAY
12. REMOVE LANDSCAPING WITHOUT DISTURBING OR DAMAGING ROOTS OF EXISTING EVERGREEN TREE
13. REMOVE SIGNAGE
14. REMOVE SIDEWALK
15. REMOVE PARKING LOT OR GRIND AND REPAVE PER SITE PLAN.
16. REMOVE HANDRAILS. PATCH CONCRETE.
17. REMOVE THROUGH SIDEWALK DRAIN
18. REMOVE STREET LIGHT POLE. COORDINATE WITH ELECTRICAL & THE CITY OF EUREKA.
19. RETAIN EXISTING TREE. PROTECT & MAINTAIN ROOT STRUCTURE.

DEMOLITION NOTES:

1. WORK IN PUBLIC RIGHT OF WAY PER ENCROACHMENT PERMIT APPROVAL AND DIRECTION OF CITY OF EUREKA ENGINEERING DEPARTMENT.

2. VERIFICATION OF ALL SUBSURFACE UTILITIES IS THE RESPONSIBILITY SOLEY OF THE CONTRACTOR.

3. DEMOLITION & SITE CLEARING: REFER TO SPECIFICATION SECTION 02230 SITE CLEARING. SITE CLEARING INCLUDES REMOVAL OF ALL EXISTING A/C PAVING, CONCRETE, TREES, STUMPS, ROOT SYSTEMS, FENCING, TRASH, AND OTHER EXISTING CONDITIONS REQUIRING REMOVAL. VISIT SITE FOR OBSERVATION PRIOR TO BIDDING. RECYCLE ALL MATERIALS, OR, IF NOT POSSIBLE, DISPOSE OF WASTE MATERIALS, AND HAUL-OFF EXCESS EXCAVATION SPOILS IN A LAWFULL MANNER. NO WASTE MATERIAL MAY BE BURNED OR BURIED.

EUREKA VETERAN'S MEMORIAL BUILDING
21,706 SF
±46'-9" HT

11TH STREET

10TH STREET

H STREET

S10°46'00"E 239.99'

N79°14'13"E 609.99'

N79°14'12"E 609.99'

S10°46'00"E 239.99'

1 SITE DEMOLITION PLAN
Scale: 3/32" = 1'-0"

0 10 20 FT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title
SITE DEMOLITION PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No.
C-001

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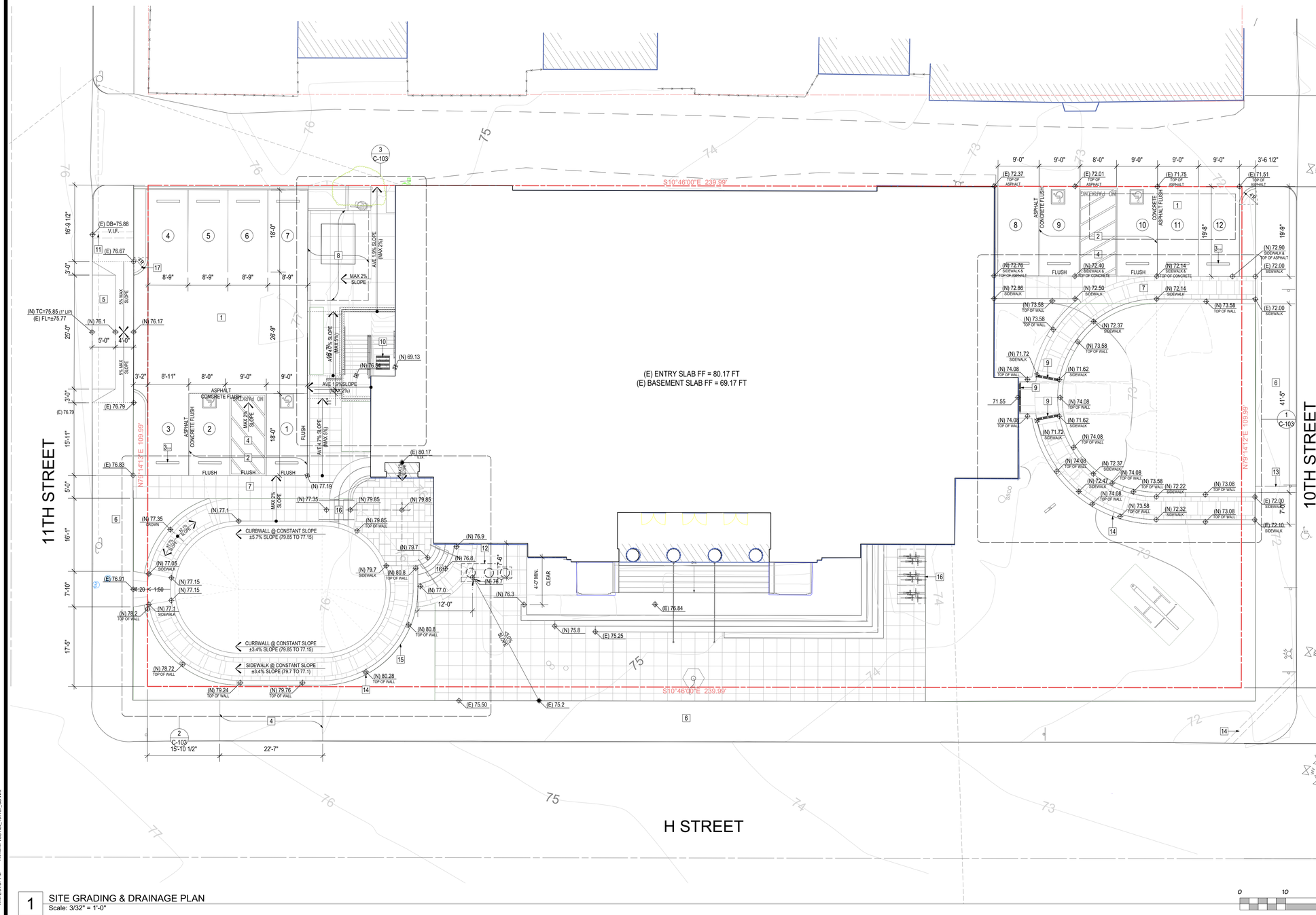

1 SITE GRADING & DRAINAGE PLAN
Scale: 3/32" = 1'-0"

GRADING NOTES

1. NEW ASPHALT PARKING LOT PER 8/C-201.
2. NEW REINFORCED CONCRETE PAVEMENT PER 7/C-201.
3. 6FT WHEEL STOP, TYP. PER 6/C-201.
4. NEW CONCRETE CURB & SIDEWALK PER CITY OF EUREKA'S STANDARDS PER 2/C-201. CITY OF EUREKA ENGINEERING DEPT. TO PROVIDE APPROVAL OF FORMWORK PRIOR TO PLACING CONCRETE.
5. NEW CONCRETE DRIVEWAY CUT PER CITY STANDARD DETAIL. 1" LIP AT GUTTER FLOW LINE PER 1/C-201. CITY OF EUREKA ENGINEEERING DEPT. TO PROVIDE APPROVAL OF FORMWORK PRIOR TO PLACING CONCRETE.
6. EXISTING 9'-0" WIDE CONCRETE CURB AND SIDEWALK w/ CONCRETE GUTTER. REPAIR AND REPLACE ANY PORTION DAMAGED DURING CONSTRUCTION TO BE REPAIR OR REPLACED BY CITY OF EUREKA STANDARDS.
7. NEW CONCRETE SIDEWALK w/ MIN 4'-0" WIDE CLEAR w/ 5% MAX SLOPE & 2% MAX CROSS SLOPE & NO MORE THAN A 1/4" VARIANCE ALONG ACCESSIBLE PATH OF TRAVEL. V.I.F.
8. MAINTAIN AREA CLEAR & LEVEL AT NEW PAD MOUNT TRANSFORMER PER ELECTRICAL.
9. (N) TRENCH DRAINS TO NEW SUMP PIT. SEE 2/C-202.
10. (N) TRECH DRAIN PUMPED TO NEW STORMWATER DRAIN PIPE TO (E) THROUGH SIDEWALK DRAIN.
11. (E) THROUGH SIDEWALK DRAIN
12. (N) GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS
13. (N) THROUGH SIDEWALK DRAIN
14. CONCRETE WALL STEP, TYP. COORDINATE LIGHTING WITH LANDSCAPE WALL STEPPING, TYP.
15. KEEP FINISH GRADE LESS THAN 30" BELOW WALKWAY GRADE
16. (N) CONCRETE STAIR W/ PAINTED STEEL HANDRAILS. SEE DETAIL 4/C-202 OR SIM.

SITE GRADING & DRAINAGE NOTES:

1. COMPLY WITH CITY OF EUREKA MUNICIPAL CODE AND CITY STANDARD SPECS & PLANS FOR WORK DONE IN THE PUBLIC RIGHT OF WAY.
2. WORK IN PUBLIC RIGHT OF WAY PER ENCROACHMENT PERMIT APPROVAL AND DIRECTION OF CITY OF EUREKA ENGINEERING DEPARTMENT.
3. VERIFICATION OF ALL SUBSURFACE UTILITIES IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. CALL FOR USA SERVICES (811) PRIOR TO ALL DIGGING.
4. CONFIRM ALL LOCATIONS, DIMENSIONS, AND FINISH GRADES PRIOR TO EACH PORTION OF THE WORK FOR ADHERENCE TO ACCESSIBILITY AND BUILDING EGRESS REQUIREMENTS.
5. DISCOVERY OF ARCHEOLOGICAL RESOURCES: IF ANY PERSON EXCAVATING OR OTHERWISE DISTURBING THE EARTH DISCOVERS ANY ARCHAEOLOGICAL SITE DURING PROJECT CONSTRUCTION, THE FOLLOWING ACTIONS SHALL BE TAKEN: 1) CEASE AND DESIST FROM ALL FURTHER EXCAVATION AND DISTURBANCES WITHIN 25 FEET OF THE DISCOVERY; 2) NOTIFY THE FORTUNA WITHIN 24 HOURS OF THE DISCOVERY; AND 3) RETAIN A PROFESSIONAL ARCHAEOLOGIST TO DETERMINE APPROPRIATE ACTION IN CONSULTATION WITH STAKEHOLDERS SUCH AS NATIVE AMERICAN GROUPS THAT HAVE TIES TO THE AREA.
6. COORDINATE WITH UTILITY AND COMMUNICATIONS PROVIDERS FOR SPECIFIC REQUIREMENTS INCLUDING CLEARANCES, DEPTHS, COVERAGE, MOUNTING PAD DETAILS, AND SEQUENCING. IF JOINT TRENCHES ARE TO BE USED, COMPLY WITH PG&E STANDARDS AND PROVIDE ENGINEERED DETAILS AS REQUIRED.
7. DO NOT COVER ANY INSTALLED SUBSURFACE UTILITIES, PIPING, OR OTHER IMPROVEMENTS UNTIL IT HAS BEEN INSPECTED AND APPROVED BY APPLICABLE AUTHORITIES HAVING JURISDICTION. SITE SAFETY AND OSHA REGULATION COMPLIANCE IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR.
8. CONDUCT CONSTRUCTION PHASE MONITORING BY QUALIFIED ENGINEER TO OBSERVE SUBGRADE PRIOR TO PLACEMENT OF ANY STRUCTURAL FILL MATERIAL. REFER TO AVAILABLE INFORMATION INCLUDING GEOTECHNICAL REPORT AS LISTED ON THE TITLE SHEET.
9. CONTRACTOR TO CALCULATE CUT & FILL QUANTITIES AND SUBMIT FIGURES TO OWNER PRIOR TO THE WORK. CONTRACTOR SHALL STOCKPILE CLEAN TOPSOIL IN AN APPROVED LOCATION FOR LATER REUSE IN ON-SITE IMPROVEMENTS. WHEN THERE IS EXCESS SOIL, DEBRIS, AND MATERIALS NOT REUSABLE FOR THIS PROJECT IT SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
10. MAINTAIN RECORD-DRAWINGS PER SECTION 01781 PROJECT RECORD DOCUMENTS.
11. CUTTING AND PATCHING SHALL COMPLY WITH SPECIFICATION SECTION 01731.
12. REFER TO AND IMPLEMENT THE REQUIREMENTS OF:
    A. THE SITE EROSION AND SEDIMENT CONTROL PLAN.
13. COMPLY WITH CITY OF EUREKA'S HOURS OF ALLOWABLE CONSTRUCTION NOISE.
14. PROVIDE TEMPORARY FACILITIES ON-SITE FOR VETERANS' MEETINGS. SEE SPECIFICATIONS.

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Sheet Title
SITE GRADING & DRAINAGE PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
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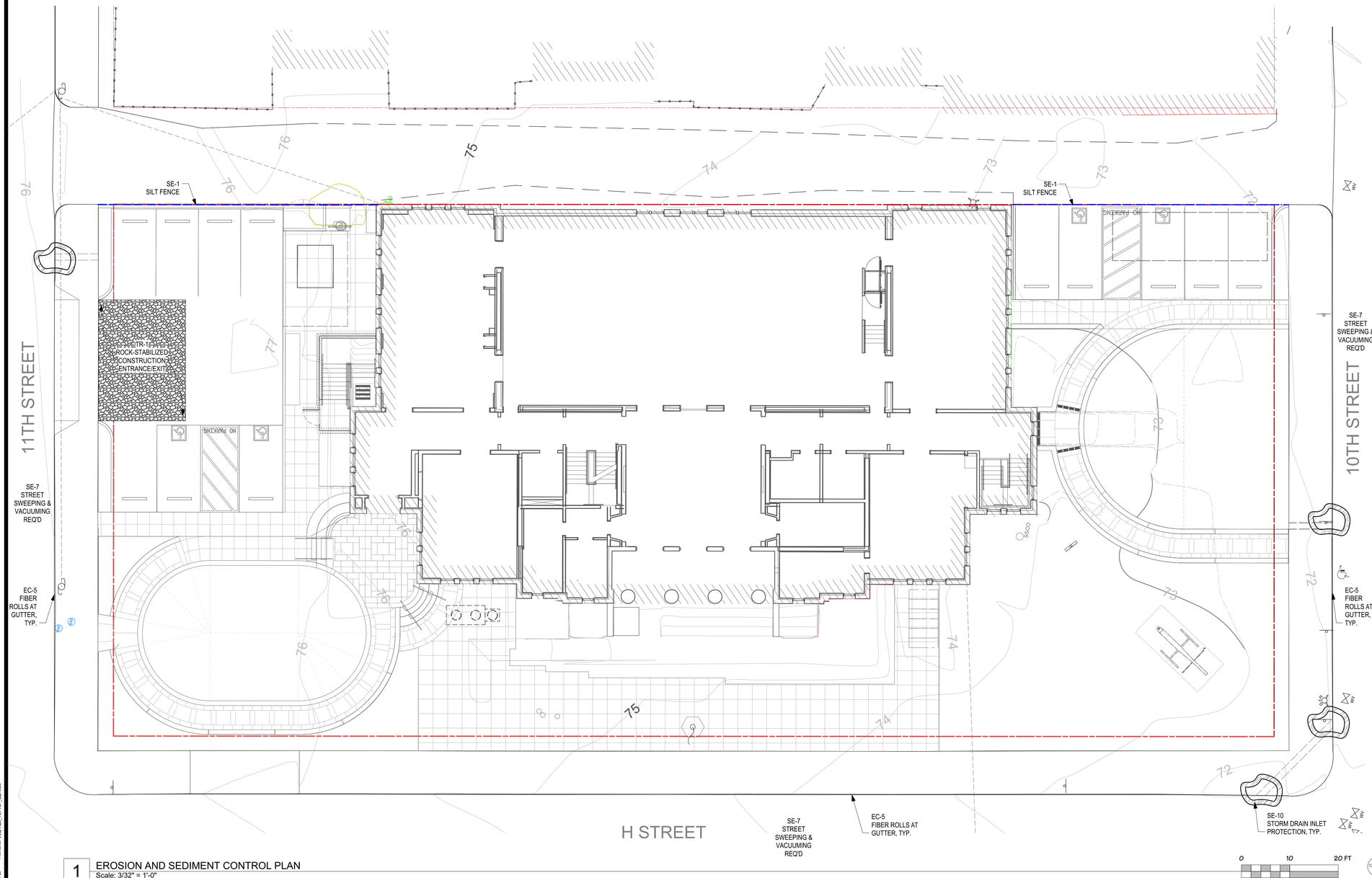

1 EROSION AND SEDIMENT CONTROL PLAN
Scale: 3/32" = 1'-0"

EROSION CONTROL BMP's:

1. THE PROJECT DISTURBS LESS THAN ONE ACRE OF SOIL, THEREFORE DOES NOT REQUIRE COVERAGE UNDER THE CALIFORNIA CONSTRUCTION GENERAL PERMIT (CGP) FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (2009-0009 DWQ PERMIT UNDER THE STATEWIDE NPDES GENERAL PERMIT).

2. EVEN THOUGH GENERAL PERMIT COVERAGE IS NOT REQUIRED, THE CONTRACTOR SHALL IMPLEMENT STORMWATER SEDIMENT AND EROSION CONTROL BMP's PER HUMBOLDT COUNTY'S MINIMUM STANDARDS.

3. REFER TO APPLICABLE BMP's PER THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS): http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm

4. PROVIDE ROCK-STABILIZED CONSTRUCTION ENTRANCE, STREET SWEEPING AND VACUMING, TIRE WASH AS NECESSARY, STREAM PROTECTION AND SILT FENCING, STORM DRAIN INLET PROTECTION, STRAW MULCH, FIBER ROLLS, AND DUST CONTROL AS APPLICABLE.

EROSION AND SEDIMENT CONTROL SCHEDULE
RAINY SEASON DATES: OCTOBER 15 TO APRIL 15
STAT IMPLEMENTATION OF TEMPORARY SOIL STABILIZATION AND SEDIMENT CONTROL BMP'S ON OCTOBER 10 OR 5 DAYS BEFORE START OF CONSTRUCTION, WHICHEVER IS LATER.

COMPLETE IMPLEMENTATION OF TEMPROARY SOIL STABILIZATION AND SEDIMENT CONTROL BMP'S BY OCTOBER 15 OR START CONSTRUCTION, WHICHEVER IS LATER. NO CONSTRUCTION SHALL OCCUR AFTER OCTOBER 15 UNTIL APPROVED EROSION CONTROL MEASURES ARE IN PLACE.

EROSION AND SEDIMENT CONTROL MEASURES NOTES:
1. ALL AREAS OF DISTURBED SOIL SHALL BE MULCHED BY BROADCASTING ANNUAL RYE SEED AT TEH RATE OF 2 LBS PER 100 SQUARE FEET, HYDROSEEDING MAY BE USED TO BROADCAST SEED AT CONTRACTOR'S OPTION.

2. DIVERT RUNOFF AWAY FROM STEEP, BAR SLOPES OR OTHER CRITICAL AREAS WITH BARRIERS, BERMS, DITCHES OR OTHER FACILITIES.

3. LOCATE STOCKPILES IN AREAS THAT WILL NOT CONTRIBUTE TO OFFSITE SEDIMENT DISCHARGE. STOCKPILES SHALL BE PROTECTED BY PROMPT USE OF APPROPRIATE BMP'S.

4. INSPECTIONS SHALL BE CONDUCTED AS FOLLOWS:
   A. PRIOR TO A FORECAST STORM
   B. AFTER A RAIN EVENT THAT CAUSES RUNOFF FROM THE CONSTRUCTION SITE
   C. AT 24-HOUR INTERNVALS DURING EXTENDED RAIN EVENTS
   D. WEEKLY FROM OCTOBER 15 TO APRIL 15
   E. AT OTHER INTERVALS AT TIME SPECIFIED IN THE CONTRACT DOCUMENTS

5. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED, SUCH AS:
   A. RE-SEED AND RE-MULCH AREAS WHICH DO NOT TAKE
   B. CHECK AND ADJUST FIBER ROLLS, GRAVEL BAG BARRIERS, AND SILT FENCES TO PREVENT SEDIMENT FROM DISHCHARGING INTO SWALES, ROADWAYS, OR UNGRADED AREAS. REMOVE SEDIMENT IF NECESSARY.

6. IF THE EROSION AND SEDIMENT CONTROL METHODS DESIGNATED DO NOT PERFORM AS DESIGNED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY TO SPECIFY CORRECTIVE MEAURES.

IMPLEMENT AND MAINTAIN, AT A MINIMUM, THE FOLLOWING BMP'S:

BMP#	BMP TITLE	REQ'D	AS NECESSARY	IMPLEMENTATION PERIOD
EROSION CONTROL BMP'S				
EC-1	SCHEDULING	X	-	THROUGHOUT
EC-2	PRESERVATION OF EXISTING VEGETATION	-	-	-
EC-3	HYDRAULIC MULCH	-	-	-
EC-4	HYDROSEEDING	-	-	-
EC-5	SOIL BINDERS	-	-	-
EC-6	STRAW MULCH	-	X	AS NEEDED
EC-7	GEOTEXTILES AND MATS	-	-	-
EC-8	WOOD MULCHING	-	X	AS NEEDED
EC-9	EARTH DIKES AND DRAINAGE SWALES	-	-	-
EC-10	VELOCITY DISSIPATION DEVICES	-	X	AS NEEDED
EC-11	SLOPE DRAINS	-	-	-
EC-12	STREAMBACK STABILIZATION	-	-	-
EC-13	POLYACRYLAMIDE	-	-	-
TEMPORARY SEDIMENT CONTROL BMP'S				
SE-1	SILT FENCE	X	-	THROUGHOUT
SE-2	SEDIMENT BASIN	-	X	AS NEEDED
SE-3	SEDIMENT TRAP	-	X	AS NEEDED
SE-4	CHECK DAMS	-	X	AS NEEDED
SE-5	FIBER ROLLS	-	X	THROUGHOUT
SE-6	GRAVEL BAG BERM	-	X	AS NEEDED
SE-7	STREET SWEEPING AND VACUUMING	X	-	THROUGHOUT
SE-8	SANDBAG BARRIER	-	-	-
SE-9	STRAW BALE BARRIER	X	-	AS NEEDED
SE-10	STORM DRAIN INLET PROTECTION	X	-	THROUGHOUT
SE-11	CHEMICAL TREATMENT	-	-	-
TEMPORARY TRACKING CONTROL BMP'S				
TR-1	STABILIZED CONST. SITE ENTRY/EXIT	X	-	THROUGHOUT
TR-2	STABILIZED CONSTRUCTION ROADWAY	-	-	-
TR-3	ENTRANCE/OUTLET TIRE WASH	-	X	AS NEEDED
WIND EROSION CONTROL BMP'S				
WE-1	WIND EROSION CONTROL	-	X	AS NEEDED

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Sheet Title
EROSION & SEDIMENT CONTROL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes
-			

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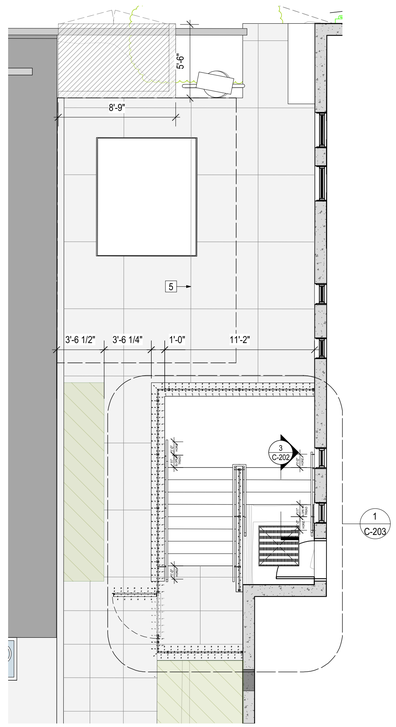
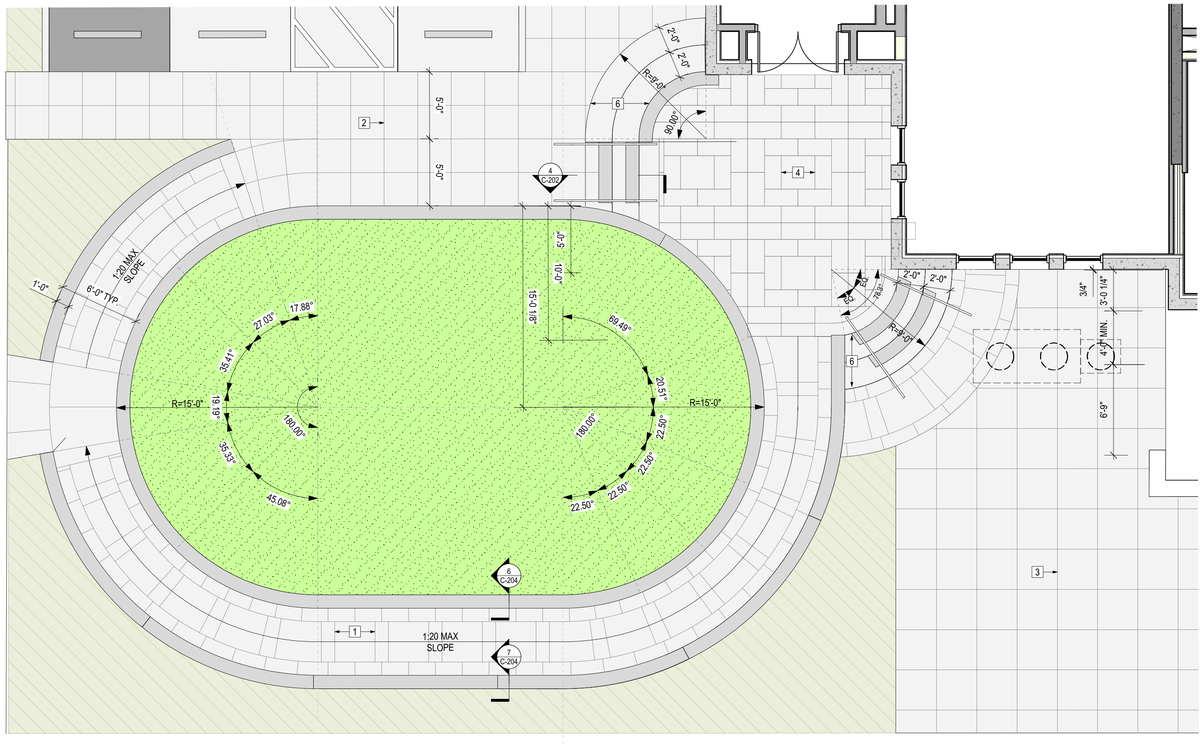


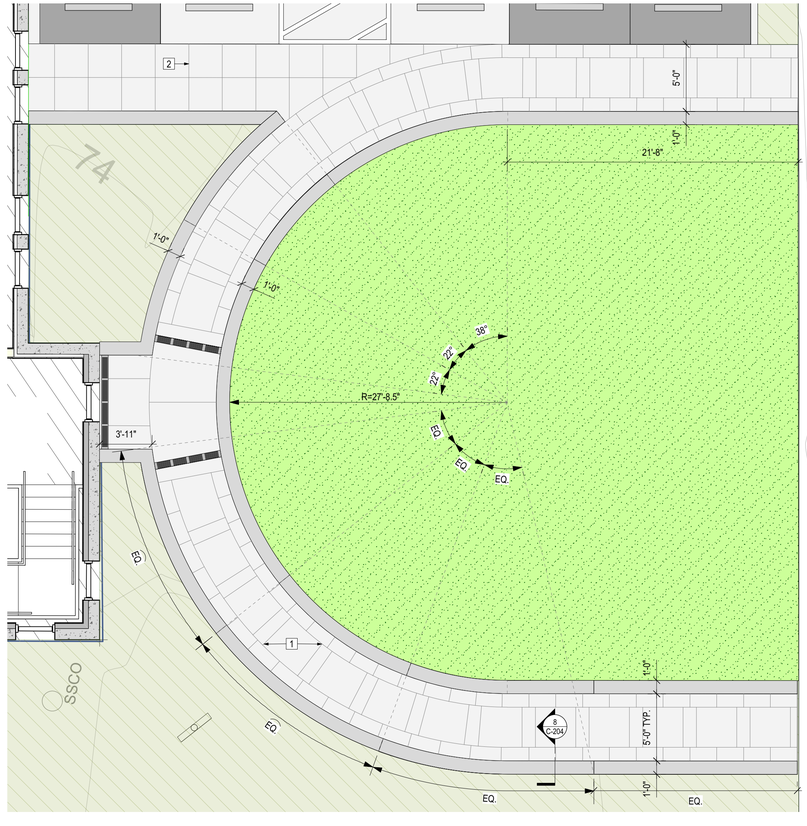
3 SOUTH STAIR
Scale: 3/16" = 1'-0"

0 10 FT



2 SOUTH SLOPED WALKWAY
Scale: 3/16" = 1'-0"

0 10 FT



1 NORTH SLOPED WALKWAY
Scale: 3/16" = 1'-0"

0 10 FT

ENLARGED SITE PLAN KEY NOTES

1. PAVING PATTERN LAYOUT PER 11/C-202
2. 2'-6"x2'-6" CONTROL JOINT PAVING PATTERN
3. 3'-0"x3'-0" CONTROL JOINT PAVING PATTERN
4. PAVING PATTERN LAYOUT PER 12/C-202
5. 5'-0"x5'-0" CONTROL JOINT PAVING PATTERN
6. STEPPED CONCRETE PER 5/C-202

ENLARGED SITE PLAN NOTES:

1. REFER TO SITE DEMOLITION PLAN, SHEET C-001 FOR RELEVANT NOTES & INFORMATION NOT REPEATED HERE.

2. REFER TO SITE GRADING & DRAINAGE PLAN, SHEET C-101 FOR RELEVANT NOTES & INFORMATION NOT REPEATED HERE. THE DRAWINGS ARE COMPLIMENTARY AND MUST BE REVIEWED TOGETHER.

3. SITE ELECTRICAL, MECHANICAL & PLUMBING FOR ADDITIONAL SITE WORK

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Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
A.P.N. 005-023-002

Project ID
210502

Sheet Title
ENLARGED SITE PLANS

No.	Date	Appr	Revision Notes

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C-103

Date: 11/10/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx

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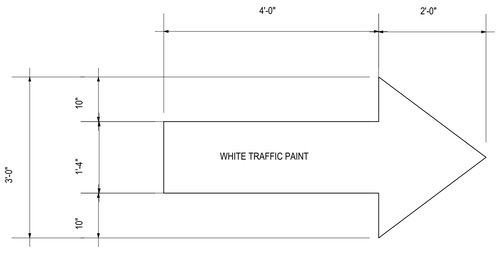

11 WHITE PAINT ARROW
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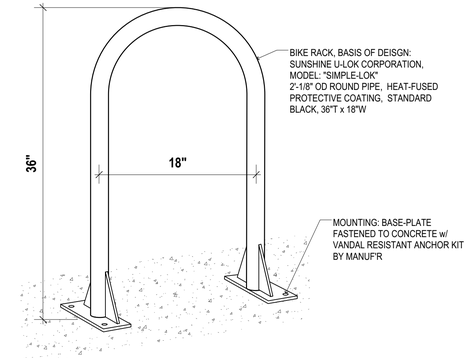

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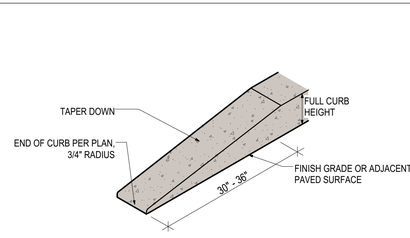

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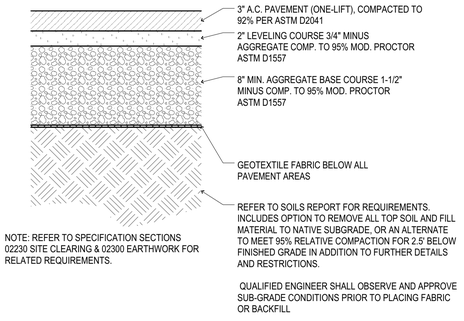

8 SECTION DTL: ASPHALT A/C PAVEMENT SECTION DETAIL
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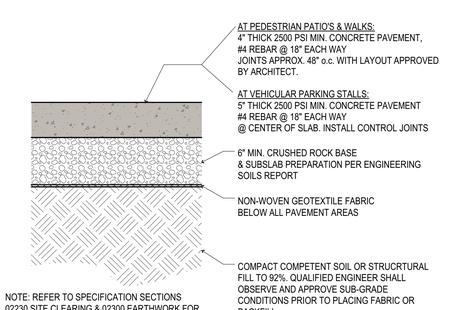

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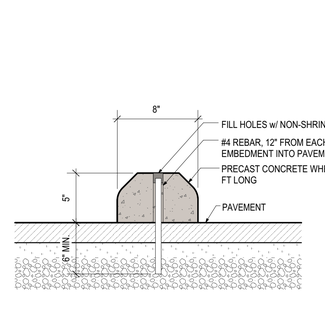

6 WHEEL STOP
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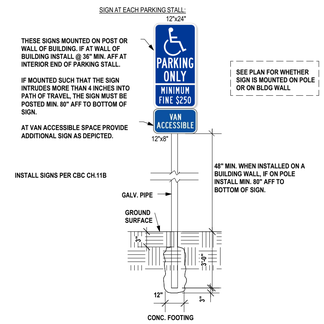
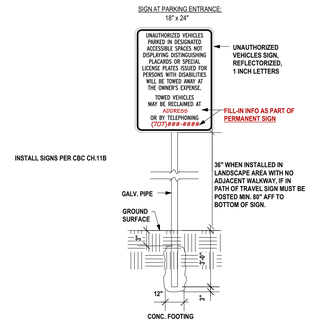
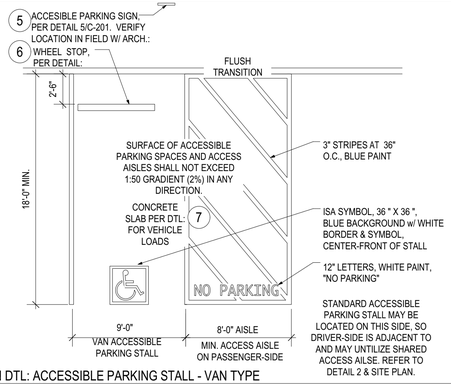


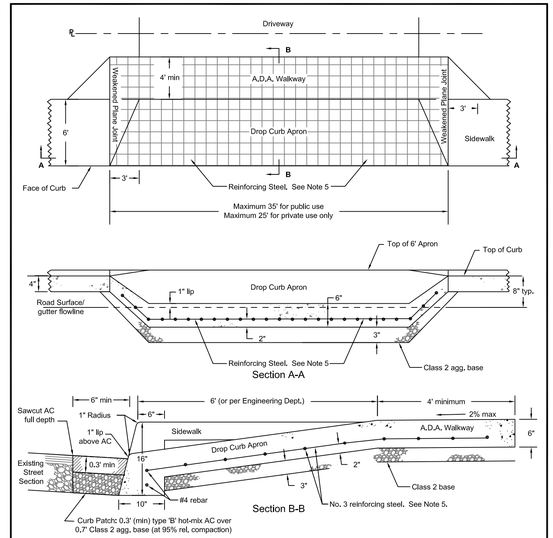
5 ACCESSIBLE PARKING STALL SIGN (VAN)
NTS



4 ACCESSIBLE PARKING SITE SIGN
NTS



3 PLAN DTL: ACCESSIBLE PARKING STALL - VAN TYPE
NTS

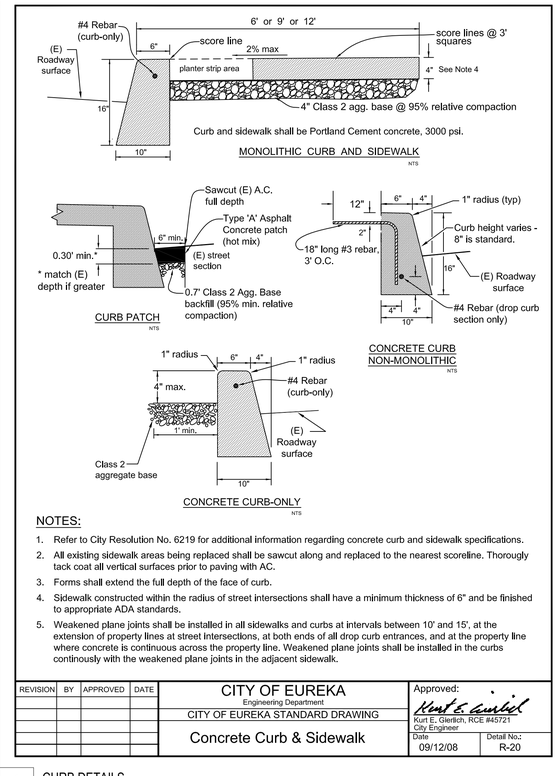


Notes:

1. See Concrete Curb and Sidewalk detail drawing for details.
2. Refer to City Resolution No. 6219 for additional information regarding concrete curb and sidewalk specifications.
3. All existing sidewalk areas being replaced shall be sawcut along and replaced to the nearest scoreline.
4. Where (N) sidewalk or driveway meets the (E) sidewalk or driveway, the (E) sidewalk or driveway shall have No. 3 rebar doweled and epoxied into it (minimum embedment length = 3") at 3' O.C. with a minimum of 12" rebar exposed.
5. Reinforcing steel for commercial driveway shall be either No. 3 rebar at 12" E.W. or 6" x 6" No. 10 welded wire mesh.

REVISION	BY	APPROVED	DATE	CITY OF EUREKA Engineering Department CITY OF EUREKA STANDARD DRAWING Commercial Driveway	Approved: Kurt E. Gierlich, RCE #45721 City Engineer Date 10/10/08 Detail No.: R-31

2 COMMERCIAL DRIVEWAY DETAILS
NTS



NOTES:

1. Refer to City Resolution No. 6219 for additional information regarding concrete curb and sidewalk specifications.
2. All existing sidewalk areas being replaced shall be sawcut along and replaced to the nearest scoreline. Thoroughly tack coat all vertical surfaces prior to paving with AC.
3. Forms shall extend the full depth of the face of curb.
4. Sidewalk constructed within the radius of street intersections shall have a minimum thickness of 6" and be finished to appropriate ADA standards.
5. Weakened plane joints shall be installed in all sidewalks and curbs at intervals between 10' and 15', at the extension of property lines at street intersections, at both ends of all drop curb entrances, and at the property line where concrete is continuous across the property line. Weakened plane joints shall be installed in the curbs continously with the weakened plane joints in the adjacent sidewalk.

REVISION	BY	APPROVED	DATE	CITY OF EUREKA Engineering Department CITY OF EUREKA STANDARD DRAWING Concrete Curb & Sidewalk	Approved: Kurt E. Gierlich, RCE #45721 City Engineer Date 09/12/08 Detail No.: R-20

1 CURB DETAILS
NTS

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Sheet Title
STANDARD SITE DETAILS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST., EUREKA, CA | 95501
APN: 006-023-002

Project ID
210502

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C-201

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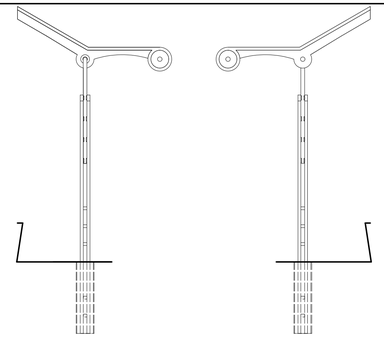
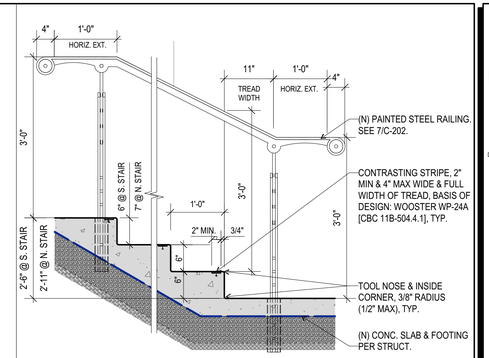
10 NOT USED



8 SECTION DTL: EXT. HANDRAIL ELEVATIONS
Scale: 1" = 1'-0"



4 SECTION DTL: (N) EXT. CONC. STAIR
Scale: 3/4" = 1'-0"

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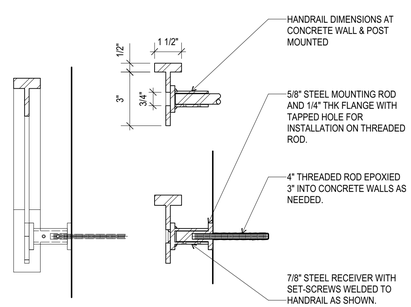
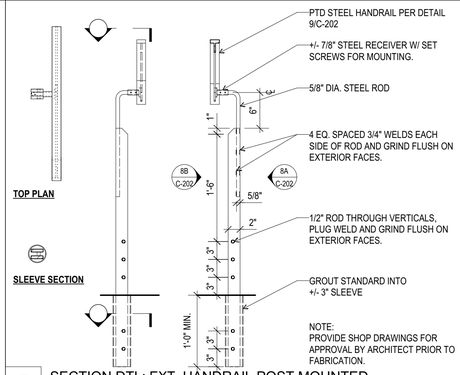
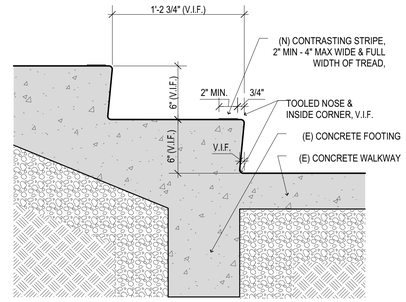
13 NOT USED



9 SECTION DTL: EXT. HANDRAIL @ CONCRETE WALL
Scale: 3" = 1'-0"

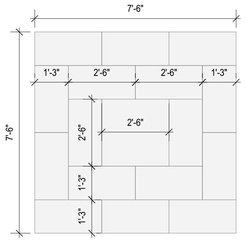


7 SECTION DTL: EXT. HANDRAIL POST MOUNTED
Scale: 1" = 1'-0"



2 SECTION DTL: (E) EXTERIOR CONCRETE STAIR
Scale: 1 1/2" = 1'-0"

16 NOT USED



12 PLAN DTL: (N) PATIO PAVING PATTERN
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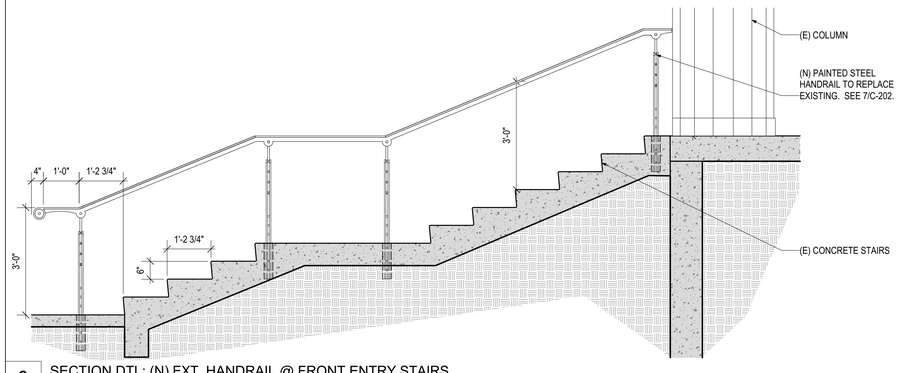
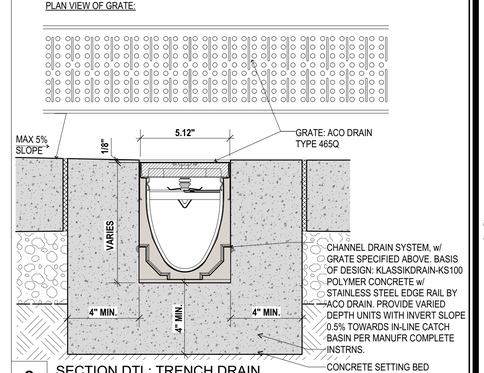
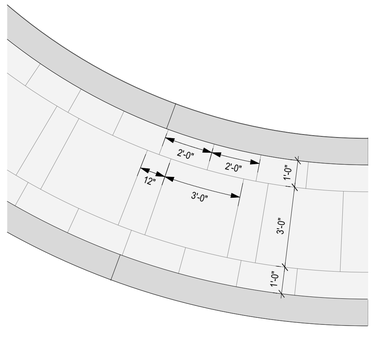


6 SECTION DTL: (N) EXT. HANDRAIL @ FRONT ENTRY STAIRS
Scale: 1/2" = 1'-0"

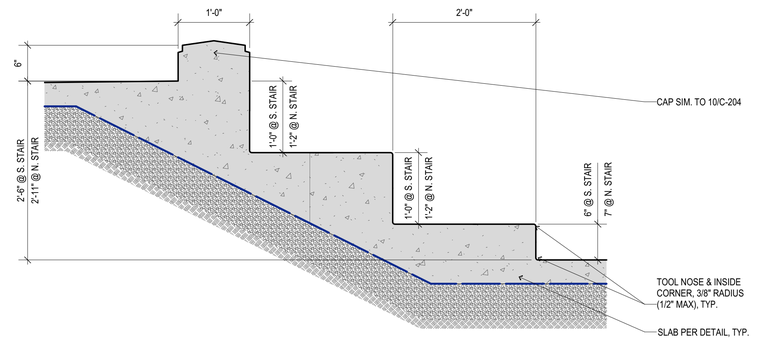


2 SECTION DTL: TRENCH DRAIN
Scale: 3" = 1'-0"

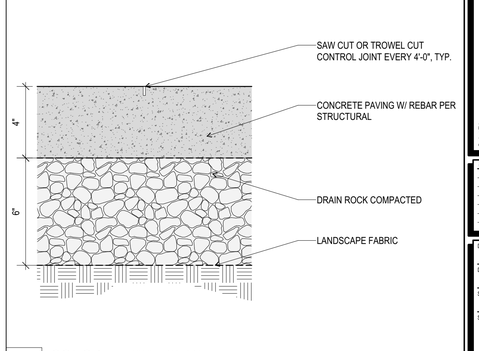
15 NOT USED



11 PLAN DTL: WALKWAY PAVING PATTERN
Scale: 3/8" = 1'-0"



5 SECTION DTL: (N) STEPPED CONCRETE
Scale: 1" = 1'-0"



1 CONCRETE WALKWAY
Scale: 3" = 1'-0"

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Sheet Title: SITE DETAILS

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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Scale: Sheet Scale
Sheet No.: C-202

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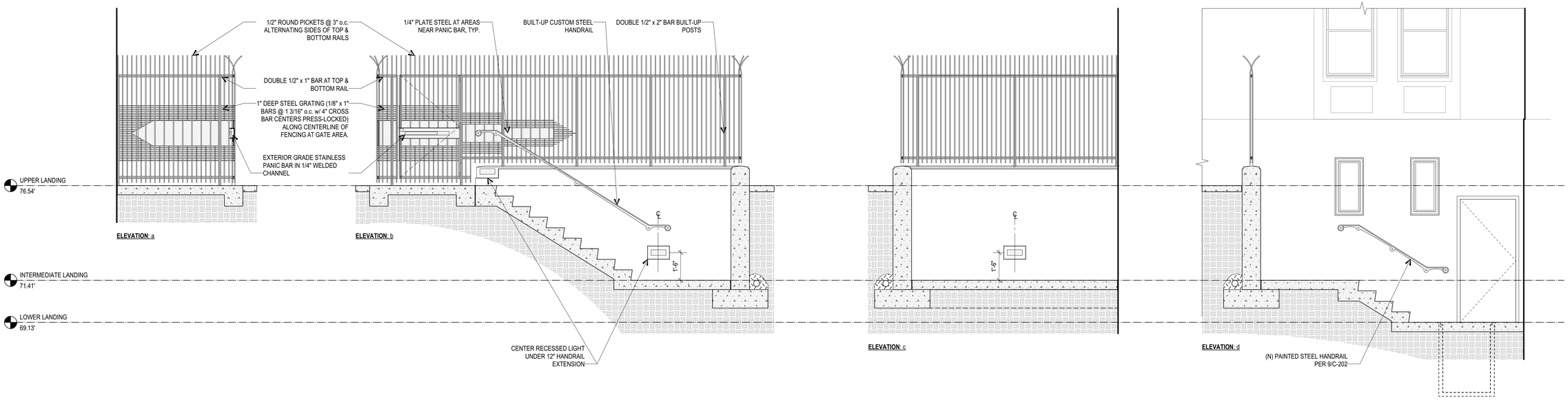
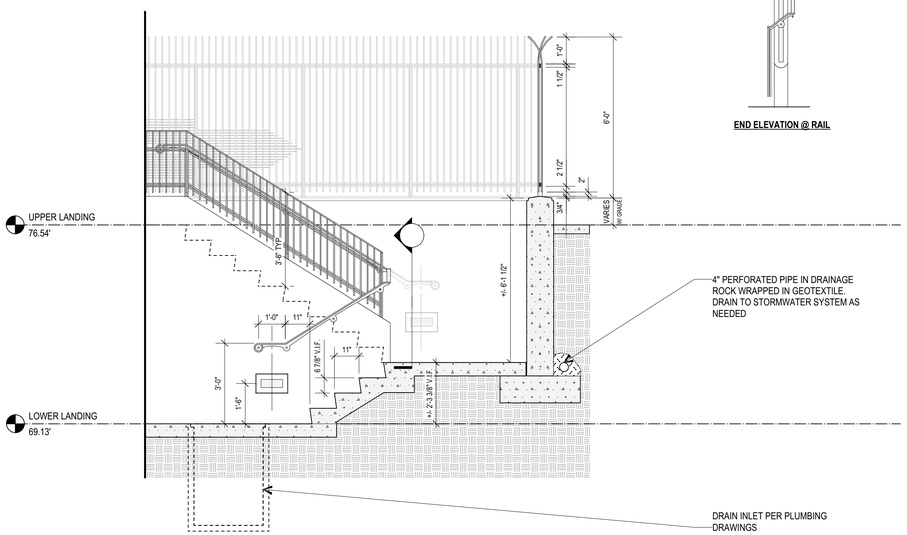
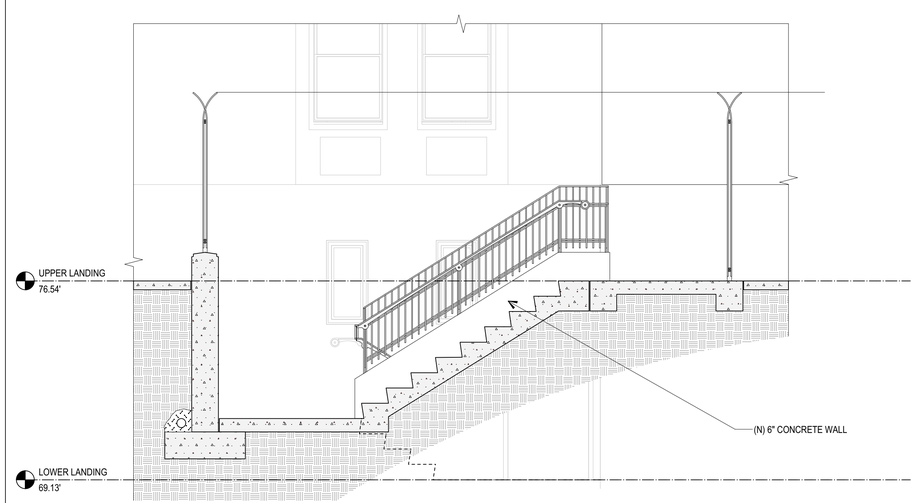


4 SECTION DTL: SOUTH BASEMENT INTERIOR ELEVATIONS
Scale: 3/8" = 1'-0"

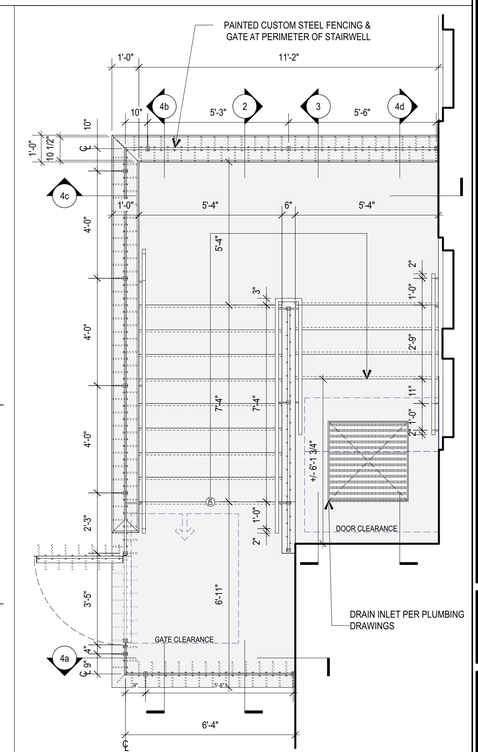
NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION FOR ALL PAINTED CUSTOM STEEL FENCING AND HANDRAILS.



3 SECTION DTL: SOUTH BASEMENT STAIR LOWER & INTERMEDIATE LANDINGS
Scale: 3/8" = 1'-0"



2 SECTION DTL: SOUTH BASEMENT STAIR INTERMEDIATE & UPPER LANDINGS
Scale: 3/8" = 1'-0"



1 PLAN DTL: SOUTH BASEMENT STAIR
Scale: 3/8" = 1'-0"

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Sheet Title: SITE DETAILS - SOUTH STAIR

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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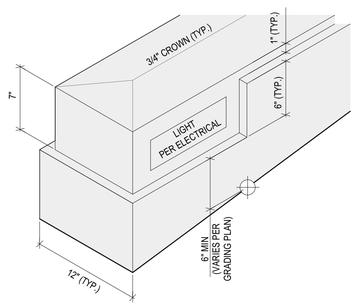
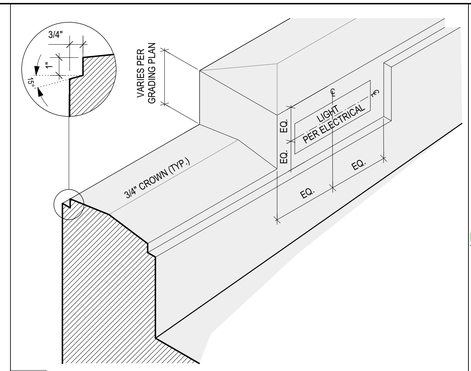
Scale: Sheet Scale
Sheet No.: C-203

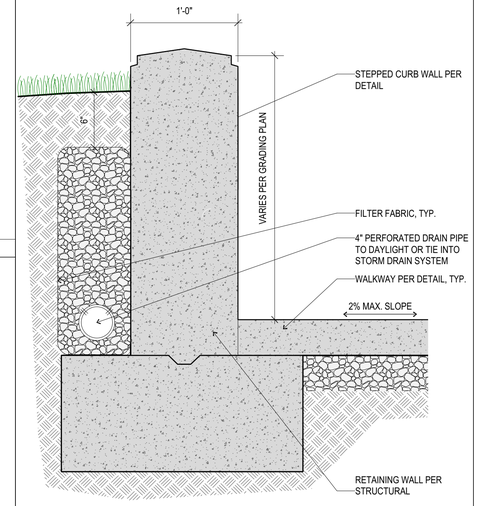
Date: 11/10/16 Time: 2:16:08 PM File name: Vets Hall - I:\0\02d_DETAILS.vwx



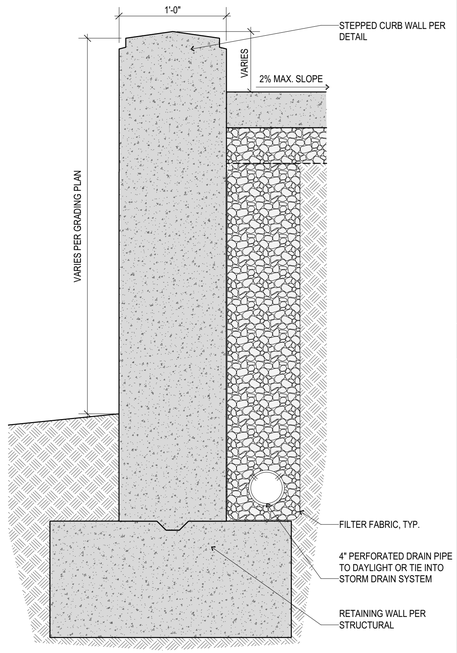
11 SECTION DTL: END WALL
Scale: 1 1/2" = 1'-0"



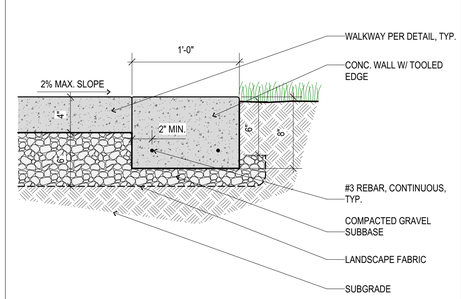
10 SECTION DTL: STEP WALL
Scale: 1 1/2" = 1'-0"



8 SECTION DTL: RETAINING WALL @ NORTH WALKWAY
Scale: 1 1/2" = 1'-0"

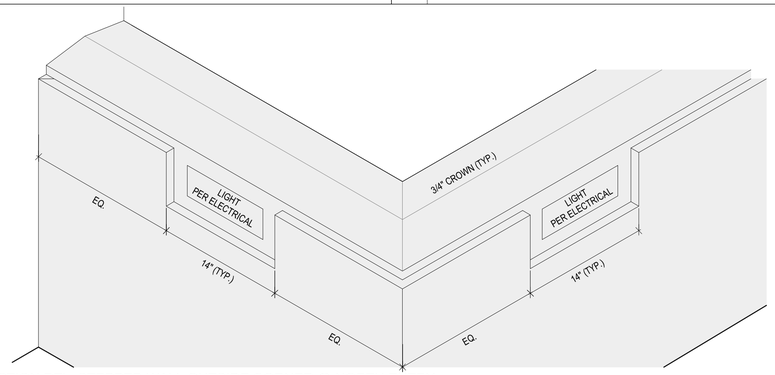


7 SECTION DTL: RETAINING WALL @ SOUTH WALKWAY
Scale: 1 1/2" = 1'-0"



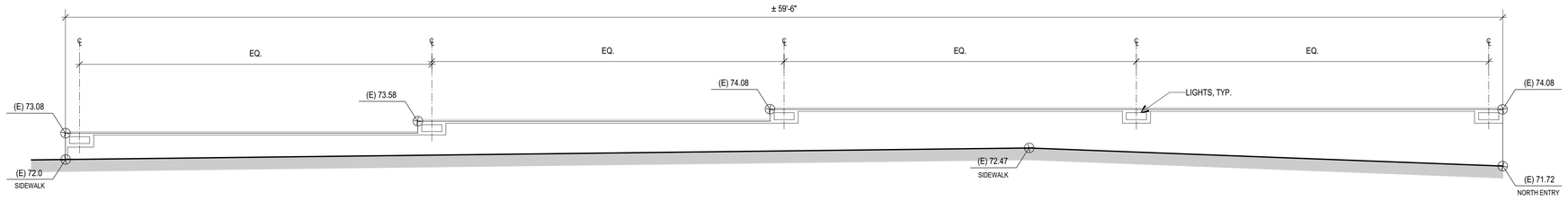
6 SECTION DTL: CURB WALL @ SOUTH WALKWAY
Scale: 1 1/2" = 1'-0"

5 NOT USED



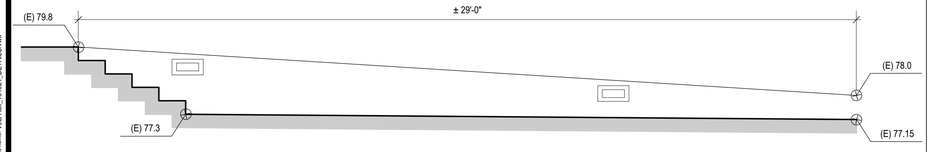
9 SECTION DTL: STEPPED WALL OUTSIDE CORNER @ NORTH ENTRY
Scale: 1 1/2" = 1'-0"

4 NOT USED



*NOTES
1. ALL WALKWAY & LANDING WALL/CURBS SIM.
2. COORDINATE EXT. LIGHTING AS NECESSARY

3 SECTION DTL: EAST WALL ELEVATION @ NORTH SLOPED WALKWAY
Scale: 3/8" = 1'-0"



2 SECTION DTL: PARKING LOT ELEVATION @ SOUTH SLOPED WALKWAY
Scale: 3/8" = 1'-0"

1 SECTION DTL: EAST WALL ELEVATION @ SOUTH SLOPED WALKWAY
Scale: 3/8" = 1'-0"

Date: 11/10/16
File name: Vets Hall - L16124_DETAILS.vwx
Time: 2:16:08 PM

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Sheet Title: SITE DETAILS - STEPPED WALLS

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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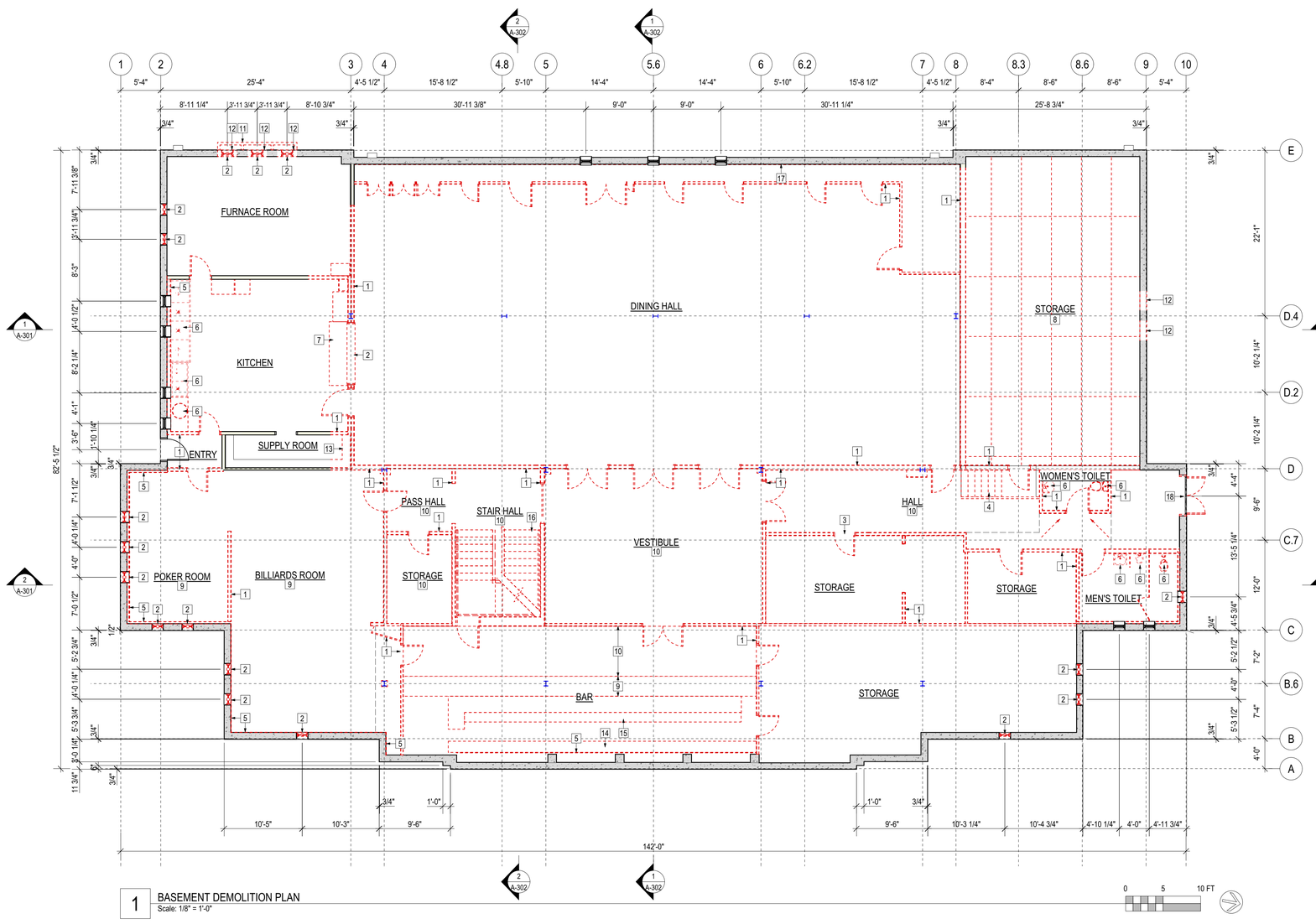
Sheet No.: C-204



1 BASEMENT DEMOLITION PLAN
Scale: 1/8" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE INTERIOR PARTITION WALL, INCLUDING ANY ASSOCIATED DOORS, TRIM & MOLDING.
2. REMOVE WINDOW
3. REMOVE DOOR, TYP.
4. REMOVE CONCRETE STAIR & RAILING
5. REMOVE FURRING & FINISHES. TO BE REPLACED w/ NEW FURRING
6. REMOVE PLUMBING FIXTURES. SEE PLUMBING PLANS.
7. REMOVE MILLWORK
8. REMOVE BUILT-UP PLYWOOD FLOORING
9. REMOVE CARPET FLOORING
10. REMOVE VINYL FLOORING
11. REMOVE CONCRETE WINDOW WELL
12. SAW CUT CONCRETE WALL TO ALLOW FOR NEW WINDOW OR VENT.
13. BUILT IN SHELVING TO BE CAREFULLY REMOVED FOR REPLACEMENT.
14. BUILT-IN STORAGE AND UNDERCOUNTER FRIDGES TO BE REMOVED, REFURBISHED AND INSTALLED IN BAR (ROOM #108). REFER TO ENLARGED PLAN 2/A-603.
15. REMOVE PLUMBING FIXTURES FOR REUSE. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE.
16. REMOVE WOOD STAIR & ASSOCIATED GUARDRAIL & HANDRAIL
17. REMOVE PLASTER SURFAING ON CONCRETE WALL. SEE ASBESTOS ABATEMENT REQS.
18. REMOVE DOOR, ENLARGE & RAISE OPENING. SEE STRUCTURAL.

DEMOLITION NOTES

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION PLANS.

2. REFER TO "ASBESTOS SURVEY & PAINT SAMPLING REPORT" DATED DECEMBER 31, 2014 FOR AMBATEMENT REPORT AND DISPOSAL RECOMMENDATIONS.

3. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY.

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Sheet Title
BASEMENT DEMOLITION PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

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Date 11/10/16
Scale Sheet Scale
Sheet No.
A-001

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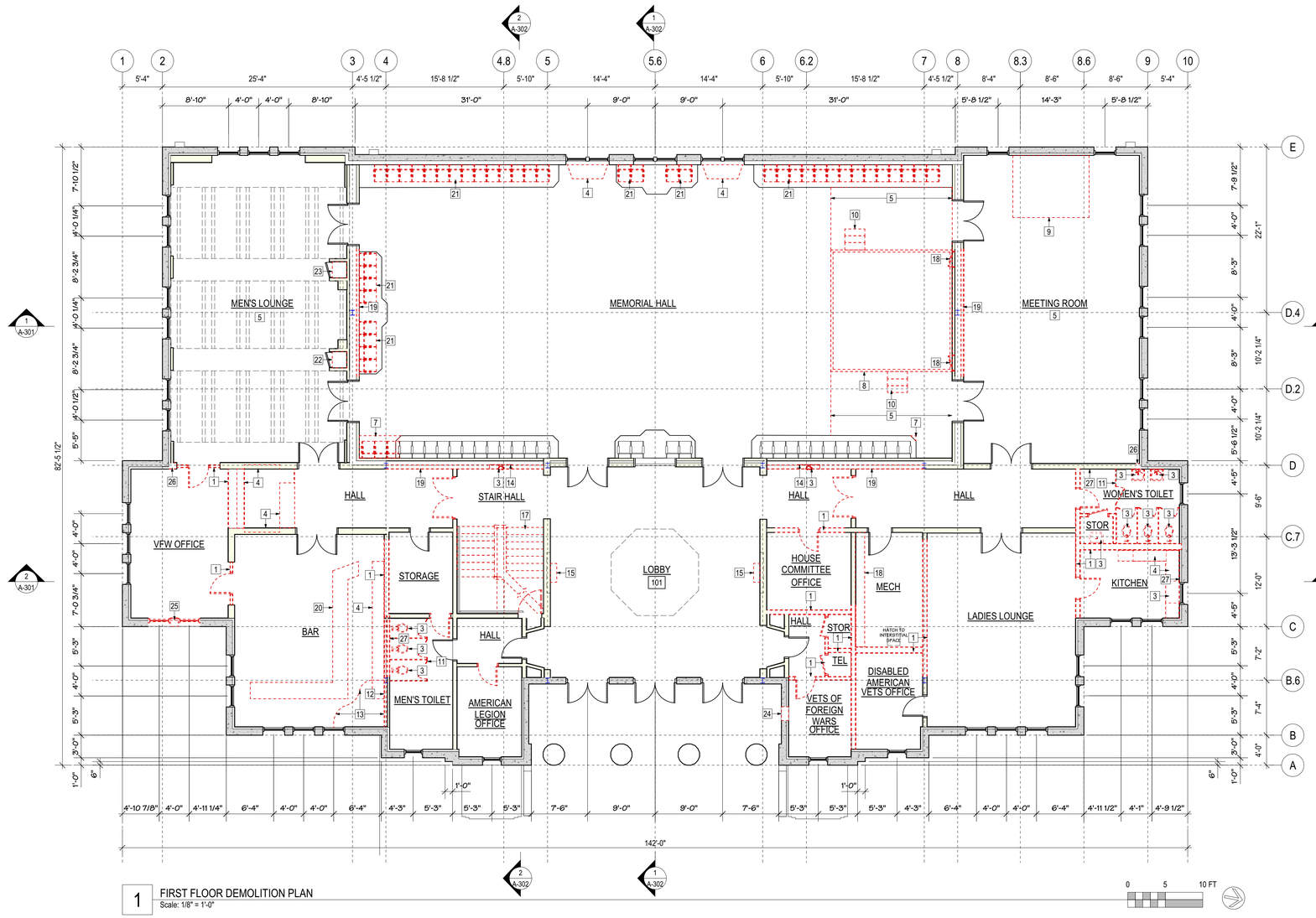

1 FIRST FLOOR DEMOLITION PLAN
Scale: 1/8" = 1'-0"

DEMOLITION KEY NOTES

1 REMOVE INTERIOR PARTITION WALL, INCLUDING ANY ASSOCIATED DOORS, TRIM & MOLDING.

2 REMOVE FURRING & FINISHES. TO BE REPLACED w/ NEW FURRING

3 REMOVE PLUMBING FIXTURES. SEE PLUMBING PLANS.

4 REMOVE MILLWORK

5 REMOVE CARPET FLOORING.

6 REMOVE VINYL FLOORING. TO BE REPLACED.

7 REMOVE RAISED HARDWOOD FLOORING

8 RAISED HARDWOOD PLATFORM TO BE RELOCATED TO LOCATION NOTED ON SHEET A-102.

9 REMOVE RAISED PLATFORM

10 REMOVE WOOD STAIR

11 REMOVE WALL PARTITIONS FOR REUSE/REINSTALLATION AFTER STRUCTURAL UPGRADES.

12 REMOVE INDICATED SIDE OF PARTITION WALL TO ACCESS PLUMBING LINES. SEE PLUMBING PLANS.

13 REPLACE ANY ROTTEN DECKING AND FINISH FLOORING. V.I.F. THE EXTENT.

14 REMOVE ENTIRE TILE SURROUND ASSEMBLY & FRAMING FOR REUSE IN NEW LOCATION PER FLOOR PLANS.

15 REMOVE ELECTRICAL FIREPLACES

16 REMOVE WOOD CABINETS

17 REMOVE WOOD STAIR & ASSOCIATED GUARDRAIL & HANDRAIL (LANDING TO REMAIN).

18 REMOVE CABINETS

19 REMOVE INDICATED SIDE OF PARTITION WALL TO ALLOW FOR NEW CONCRETE WALL. SEE STRUCTURAL PLANS.

20 RECONFIGURE & RELOCATE BAR MILLWORK. SEE ENLARGED PLANS.

21 REMOVE & PROTECT FIXED CHAIRS FOR REINSTALLATION.

22 REMOVE BUILT-IN SHELVING TO ALLOW FOR (N) MECHANICAL DUCT. SEE MECHANICAL PLANS.

23 REMOVE BRICK CHIMNEY & SURROUNDING FRAMING AS NECESSARY TO ALLOW FOR (N) MECHANICAL DUCT. SEE MECHANICAL PLANS. PROTECT EXISTING WOOD TRIM & FIRE RATE WALLS PER WALL TYPE Y/A-501.

24 REMOVE REAR ACCESS WOOD MAILBOX.

25 REMOVE WINDOWS & CONCRETE WALL. SEE STRUCTURAL.

26 OPEN UP OR REMOVE WALL FOR NEW STRUCTURAL STEEL FRAMING. SEE STRUCTURAL.

27 CAREFULLY REMOVE (E) TILES FOR REUSE/BACKSTOCK.

DEMOLITION NOTES

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION PLANS.

2. REFER TO "ASBESTOS SURVEY & PAINT SAMPLING REPORT" DATED DECEMBER 31, 2014 FOR AMBATEMENT REPORT AND DISPOSAL RECOMMENDATIONS.

3. ANY PRODUCTS OR TRIMS TO BE REUSED TO BE STORED IN A SAFE AND DRY ENVIRONMENT. ANY ITEMS DAMAGED DURING CONSTRUCTION WILL BE REPLACED.

4. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY. THESE LOCATIONS WILL REQUIRE INTERIOR FURRING & FINISHES TO BE REMOVED.

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Sheet Title: FIRST FLOOR DEMOLITION PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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Sheet No.: A-002

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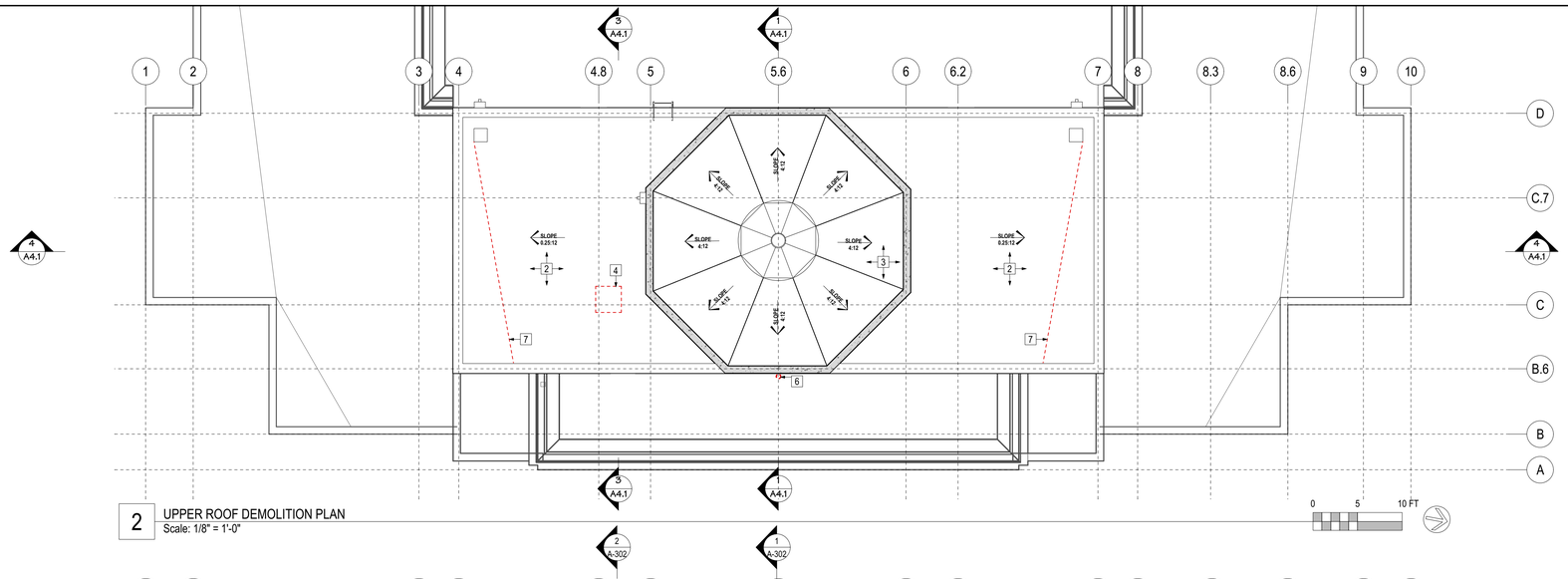
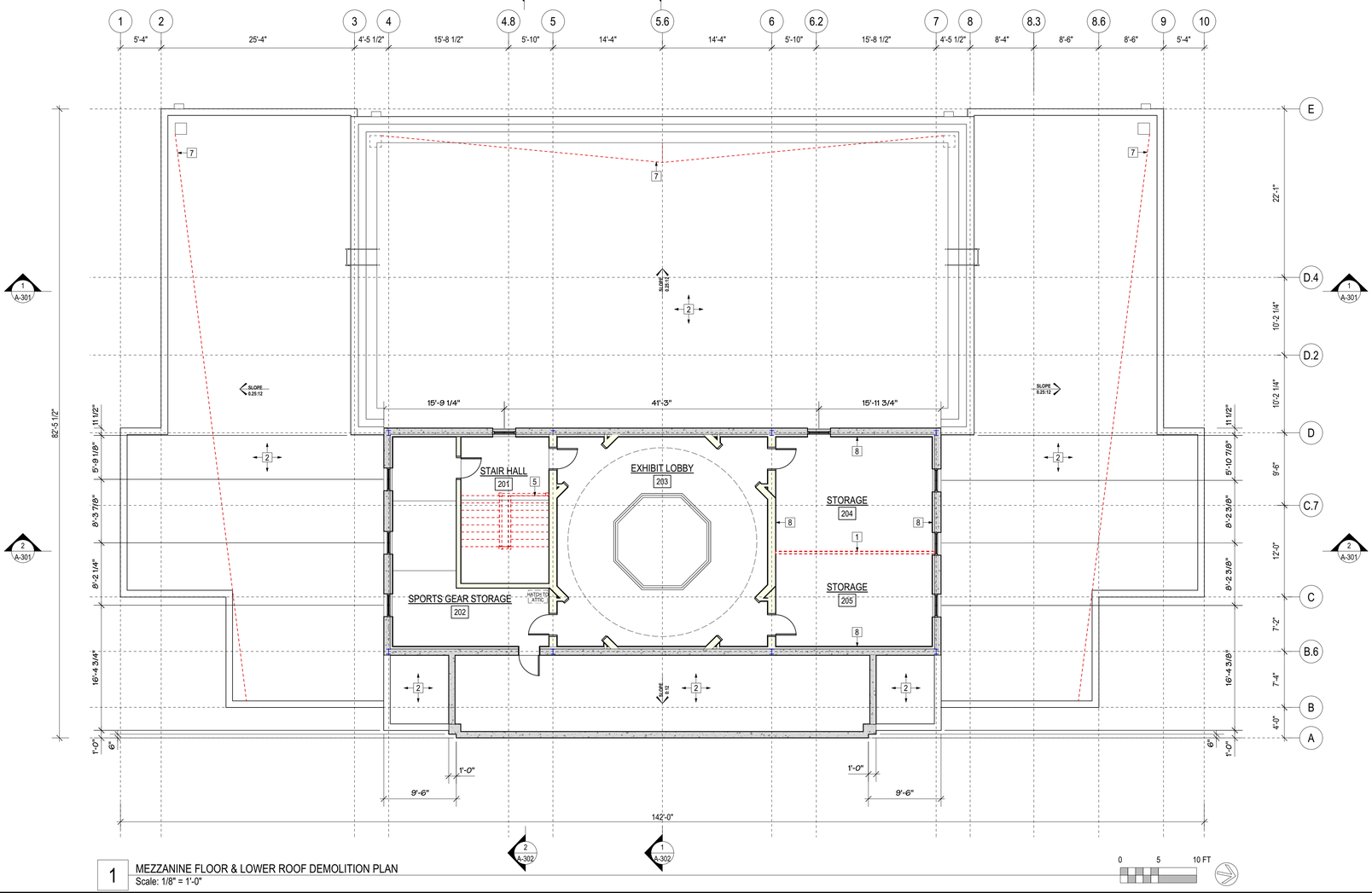


2 UPPER ROOF DEMOLITION PLAN
Scale: 1/8" = 1'-0"



1 MEZZANINE FLOOR & LOWER ROOF DEMOLITION PLAN
Scale: 1/8" = 1'-0"

DEMOLITION KEY NOTES

1. REMOVE INTERIOR PARTITION WALL, INCLUDING ANY ASSOCIATED DOORS, TRIM & MOLDING.
2. REMOVE BUILT-UP ROOFING, INCLUDING ANY ASSOCIATED TRIM & FLASHING. KEEP EXISTING DOWNSPOUTS AND SCUPPERS. PROTECT FROM DAMAGE DURING CONSTRUCTION & CHECK FOR NEEDED REPLACEMENT AND REPAIR.
3. REMOVE METAL STANDING SEAM ROOFING, INCLUDING ANY ASSOCIATED TRIM & FLASHING. KEEP EXISTING DOWNSPOUTS AND SCUPPERS. PROTECT FROM DAMAGE DURING CONSTRUCTION & CHECK FOR NEEDED REPLACEMENT AND REPAIR.
4. REMOVE EXISTING ROOF ACCESS HATCH. REPLACE PER ROOF PLAN 1/A-103.
5. REMOVE WOOD STAIR & ASSOCIATED GUARDRAIL & HANDRAIL
6. REMOVE FLAG POLE
7. REMOVE CRICKETS FOR REPLACEMENT.
8. REMOVE AC TILES ON WALLS

DEMOLITION NOTES

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION PLANS.
2. REFER TO "ASBESTOS SURVEY & PAINT SAMPLING REPORT" DATED DECEMBER 31, 2014 FOR AMBATEMENT REPORT AND DISPOSAL RECOMMENDATIONS.
3. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY. THESE LOCATIONS WILL REQUIRE INTERIOR FURRING & FINISHES TO BE REMOVED.

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Sheet Title: MEZZANINE & ROOF DEMOLITION PLANS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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Date: 11/10/16
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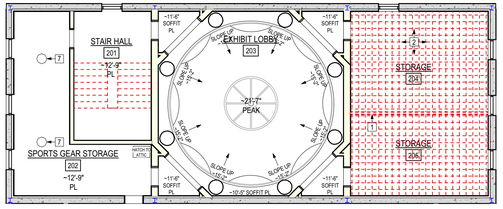
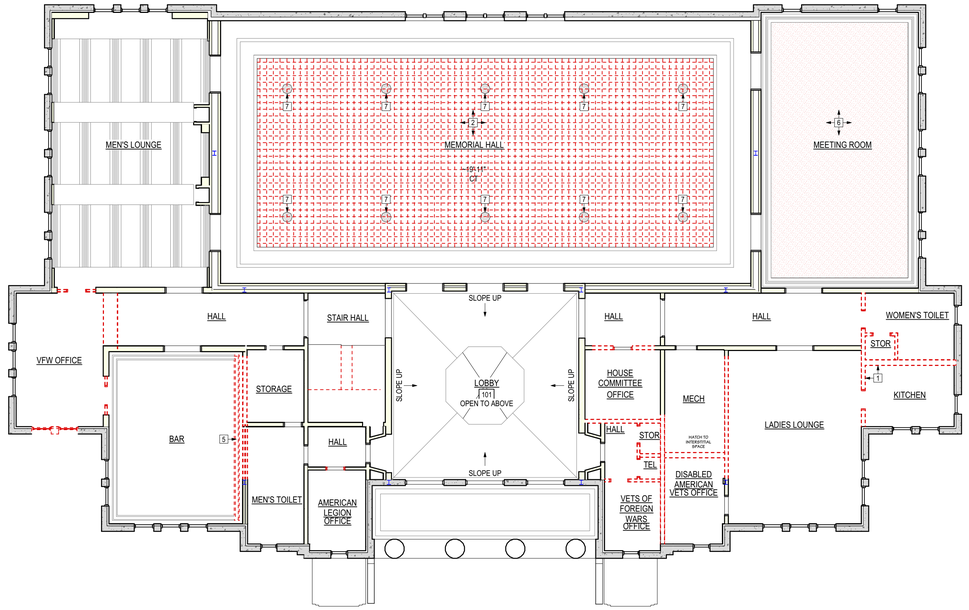
Sheet No.: A-003

Date: 11/18/16 Time: 2:51:37 PM File name: Vets Hall - 161107 -CD.vwx



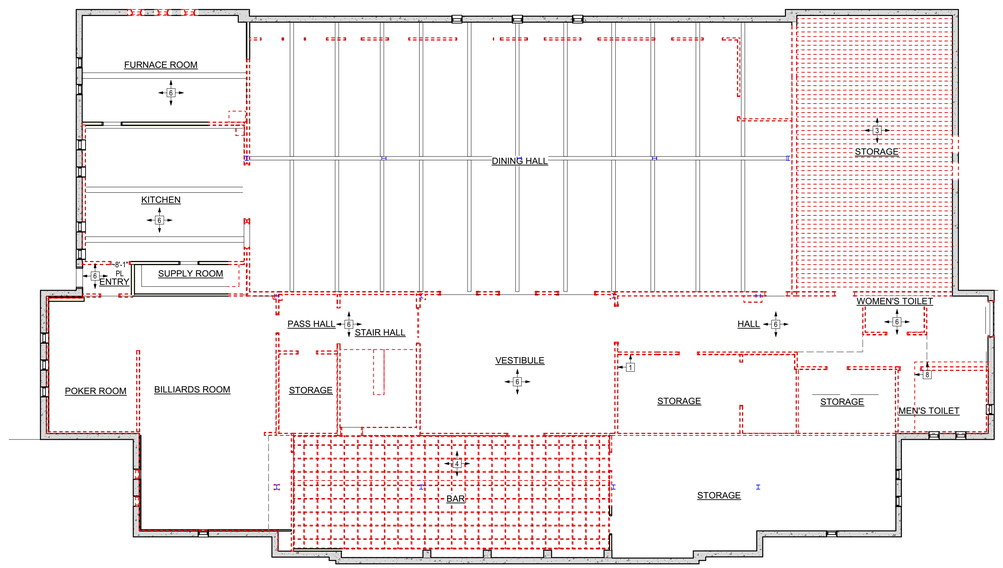
3 REFLECTED CEILING DEMOLITION PLAN: MEZZANINE FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT



2 REFLECTED CEILING DEMOLITION PLAN: FIRST FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT



1 REFLECTED CEILING DEMOLITION PLAN: BASEMENT FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT

DEMOLITION KEY NOTES

1. INTERIOR PARTITION WALLS TO BE REMOVED, TYP. SEE INDIVIDUAL DEMOLITION PLANS.
2. REMOVE CEILING TILE & PLASTER. SEE ASBESTOS ABATEMENT REQS.
3. REMOVE WOOD TONGUE AND GROOVE
4. REMOVE WOOD DROPPED CEILING
5. REMOVE CROWN MOLDING. TO BE REPLACED.
6. REMOVE PLASTER & ALL CEILING FINISHES TO ALLOW FOR STRUCTURAL SHEATHING INSTALLATION. SEE ASBESTOS ABATEMENT REQS.
7. REMOVE LIGHT FIXTURES & PROTECT FOR REUSE. SEE ELECTRICAL.
8. DEMO CEILING & 1ST FLOOR FOR (N) STAIR. VERIFY DIMENSIONS IN FIELD.

DEMOLITION NOTES

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION PLANS.

2. REFER TO "ASBESTOS SURVEY & PAINT SAMPLING REPORT" DATED DECEMBER 31, 2014 FOR AMBATEMENT REPORT AND DISPOSAL RECOMMENDATIONS.

3. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY.

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Sheet Title
REFLECTED CEILING DEMO PLANS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

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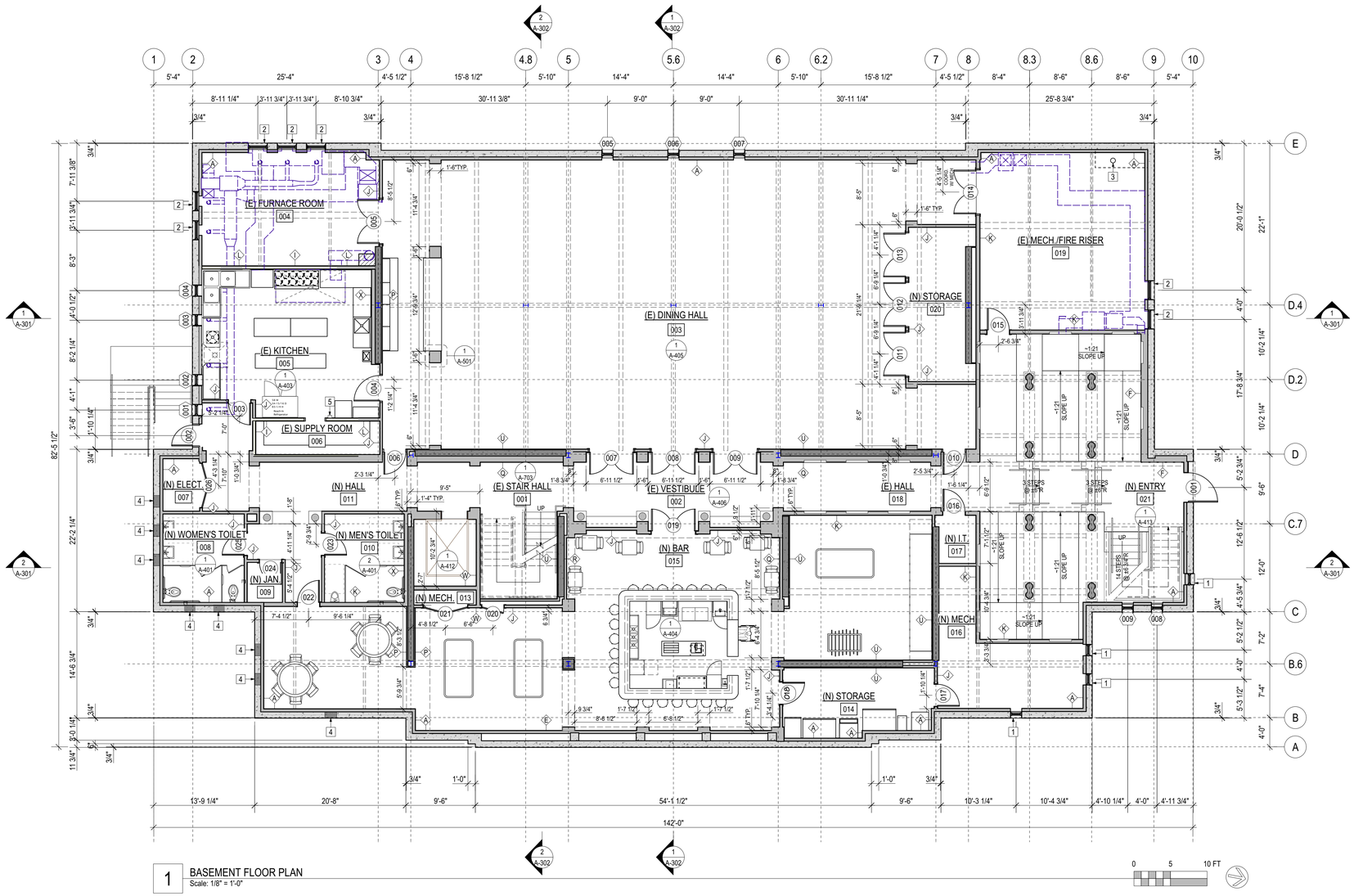

1 BASEMENT FLOOR PLAN
Scale: 1/8" = 1'-0"

FLOOR PLAN KEY NOTES

1. (N) METAL LOUVER TO REPLACE (E) METAL WINDOW. SEE MECHANICAL.
2. (N) METAL LOUVER SET IN NEW OPENING. SEE MECHANICAL.
3. REPLACE/RENOVATE/RAISE (E) FIRE RISER AS NEEDED AND AS PART OF A FIRE SPRINKLER INSTALLATION IN AREA OF NEW FLOOR IN MECH/FIRE RISER ROOM (ROOM #019). SEE DEFERRED SUBMITTALS ON SHEET G-001.
4. INFILL DEMOLISHED WINDOW WITH NEW CONCRETE 10 3/4" WALL
5. PROVIDE MIN (1) PORTABLE FIRE EXTINGUISHER A MIN. OF 30'-0" AWAY FROM COMMERCIAL COOKING EQUIPMENT PER CFC 906.

FLOOR PLAN NOTES

1. REFER TO G-004 FOR OCCUPANCY & EGRESS PLANS.
2. PROVIDE PORTABLE FIRE EXTINGUISHES PER CBC SECTION 906 & CFC TABLE 906.1, WHICH INCLUDES DURING CONSTRUCTION. REVIEW WITH FIRE CODE OFFICIAL PRIOR TO INSTALLATION.
3. DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
4. REFER TO A-506 FOR ACCESSIBILITY NOTES AND DETAILS.
5. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS
6. REFER TO APPLICABLE SPECIFICATIONS.
7. REFER TO DEMOLITION PLAN
8. PROVIDE PORTABLE FIRE EXTINGUISHERS PER CFC 906, INSTALL IN CONSPICUOUS LOCATION WITH SURFACE MOUNTED WALL BRACKET WITH ITS TOP NOT MORE THAN 5 FEET A.F.F. & w/ A MAX. COORDINATE W/ HUMBOLDT BAY FIRE & SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID
210502

Sheet Title
BASEMENT PLAN

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A-101

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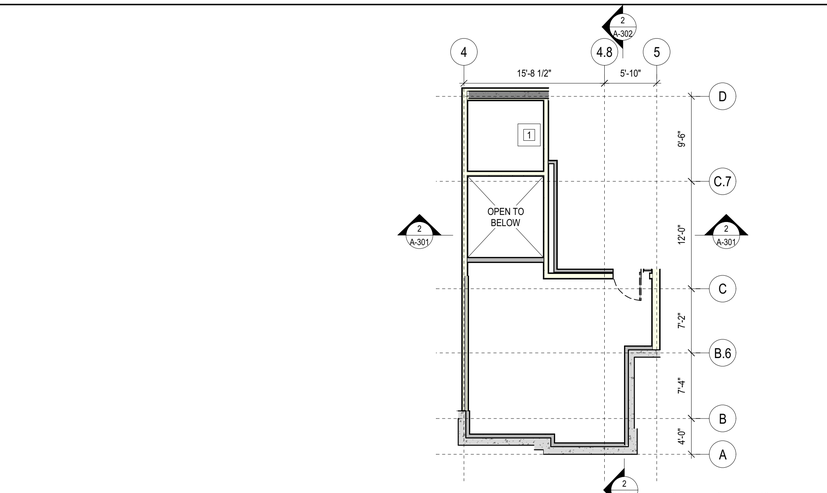
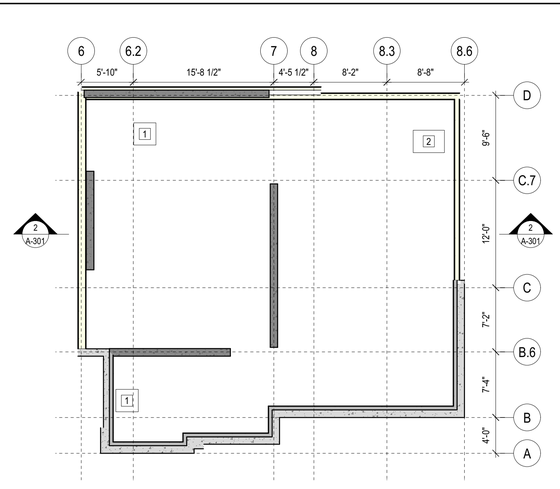
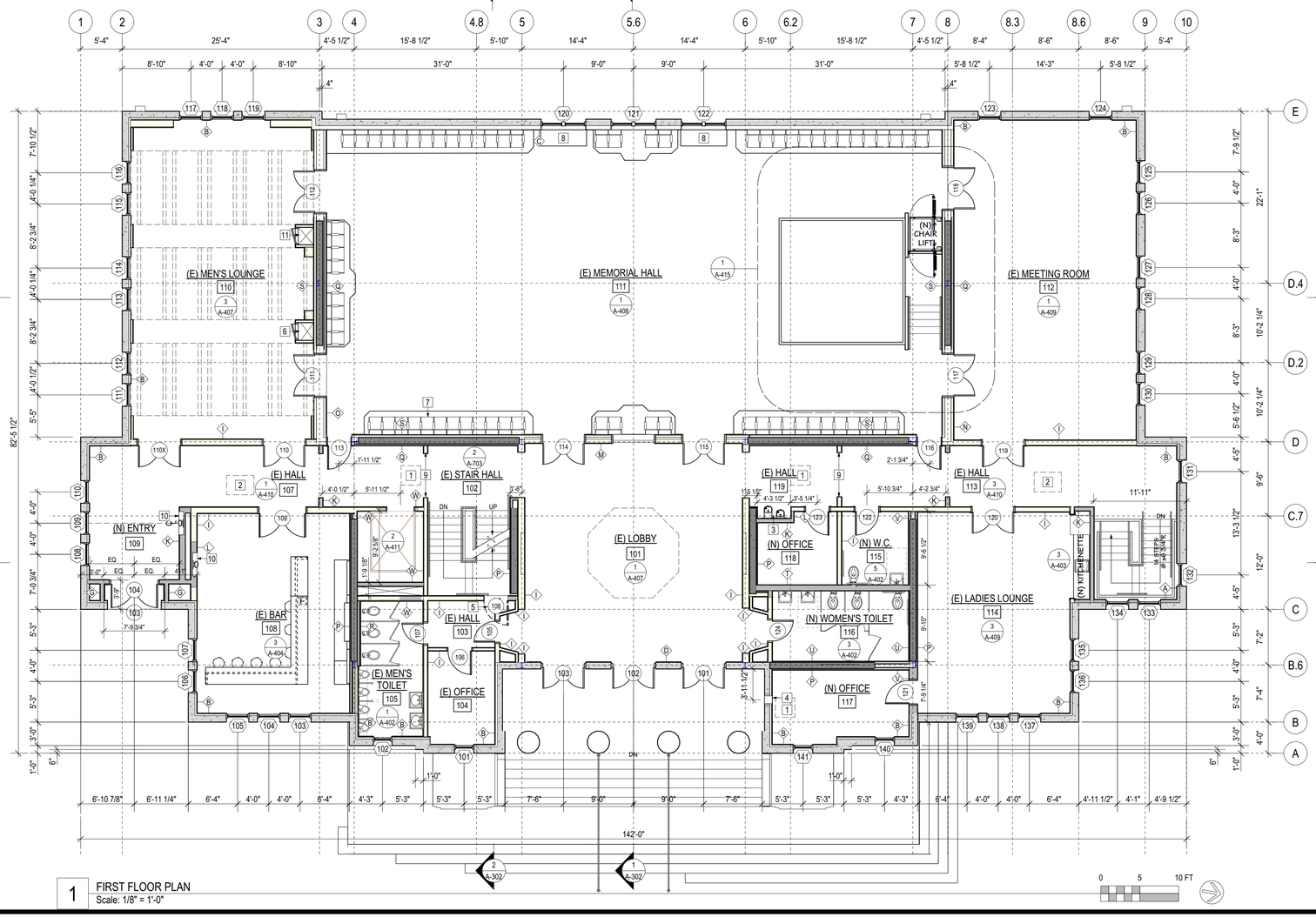


3 SE INTERSTITIAL SPACE
Scale: 1/8" = 1'-0"



2 NE INTERSTITIAL SPACE
Scale: 1/8" = 1'-0"



1 FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

FLOOR PLAN KEY NOTES

1. 30"X30" CEILING ACCESS HATCH. SEE DETAIL 10/A-503. COORDINATE WITH MECHANICAL.
2. 42"X30" CEILING ACCESS HATCH. SEE DETAIL 10/A-503. COORDINATE WITH MECHANICAL.
3. NEW DRINKING FOUNTAIN, SEE DETAIL 2/A-506.
4. NEW REAR ACCESS MAILBOX TO REPLACE EXISTING. INFILL CONCRETE AROUND NEW MAILBOX.
5. DOOR TO INTERSTITIAL SPACE
6. 1-HR MECHANICAL CHASE TO REPLACE EXISTING SHAFT. SEE WALL TYPE Y/A-501.
7. PROTECT EXISTING FIXED CHAIRS DURING CONSTRUCTION., TYP
8. NEW WOOD BUILT-IN TO COVER HVAC DUCT. COORDINATE W/ MECHANICAL. PROVIDE SHOP DRAWINGS FOR APPROVAL.
9. PATCH OPENING W/ PLASTER @ REMOVED DOOR & TRANSOM.
10. RELOCATE FOUNTAIN ASSEMBLY FROM ORIGINAL LOCATION IN STAIR HALL (RM #102) & HALL (RM #119).
11. 1-HR MECHANICAL CHASE TO REPLACE EXISTING SHAFT. SEE WALL TYPE Y/A-501. MAINTAIN 24"x24" CLEAR.

FLOOR PLAN NOTES:

1. REFER TO G-004 FOR OCCUPANCY & EGRESS PLANS.
2. PROVIDE PORTABLE FIRE EXTINGUISHERS PER CBC SECTION 906 & CFC TABLE 906.1, WHICH INCLUDES DURING CONSTRUCTION. REVIEW WITH FIRE CODE OFFICIAL PRIOR TO INSTALLATION.
3. DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
4. REFER TO A-506 FOR ACCESSIBILITY NOTES AND DETAILS.
5. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS
6. REFER TO APPLICABLE SPECIFICATIONS.
7. REFER TO DEMOLITION PLAN
8. PROVIDE PORTABLE FIRE EXTINGUISHERS PER CFC 906, INSTALL IN CONSPICUOUS LOCATION WITH SURFACE MOUNTED WALL BRACKET WITH ITS TOP NOT MORE THAN 5 FEET A.F.F. & w/ A MAX. COORDINATE W/ HUMBOLDT BAY FIRE & SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
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Sheet Title
FIRST FLOOR PLAN

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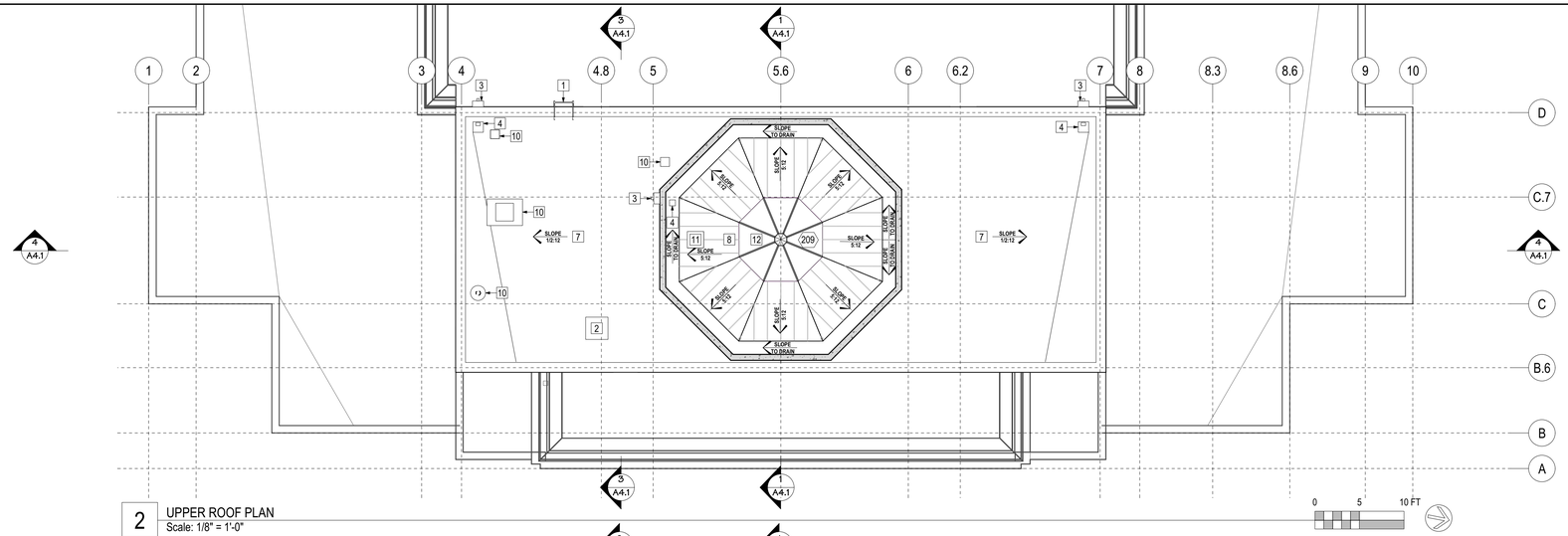
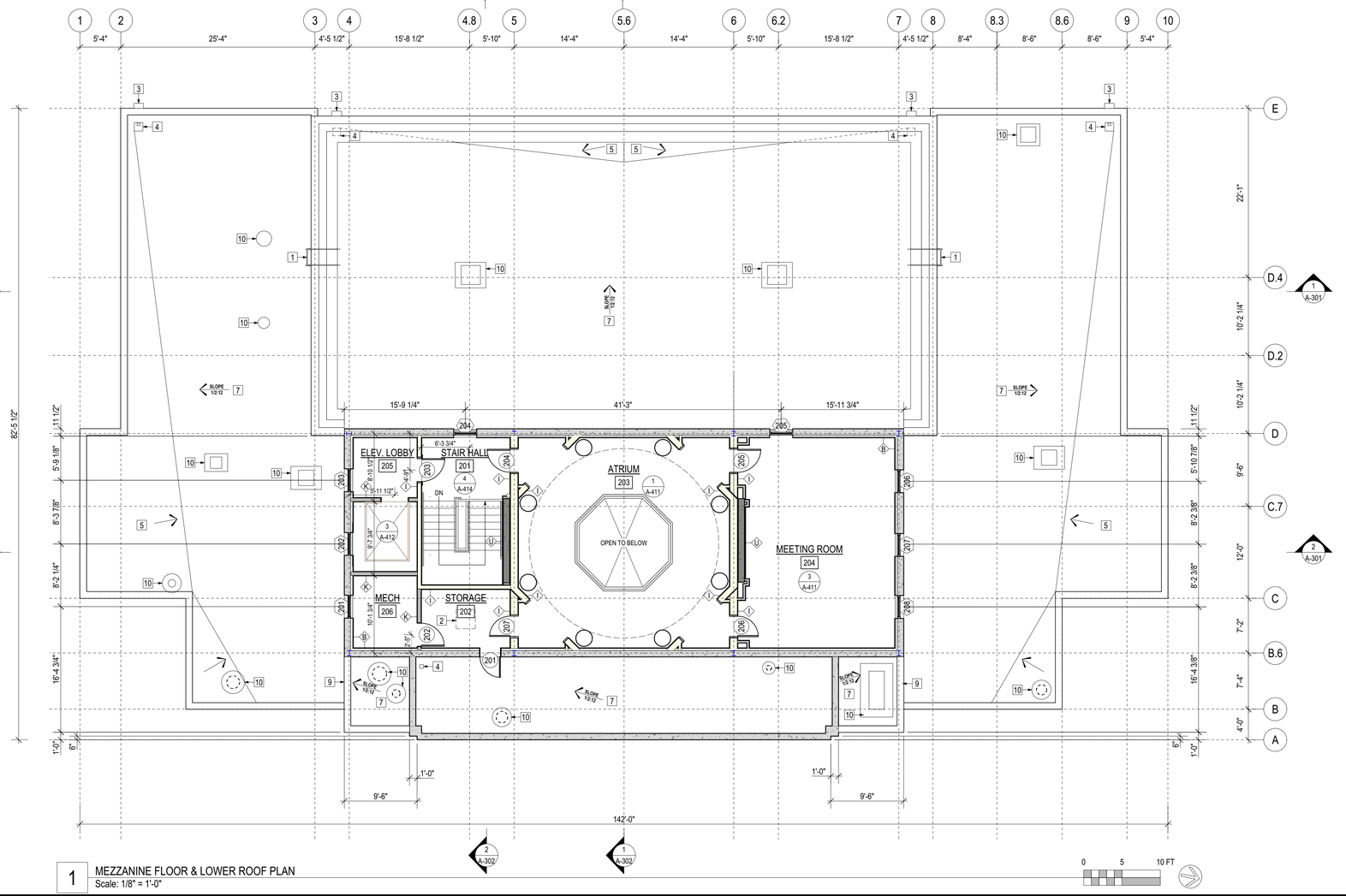


2 UPPER ROOF PLAN
Scale: 1/8" = 1'-0"

0 5 10 FT



1 MEZZANINE FLOOR & LOWER ROOF PLAN
Scale: 1/8" = 1'-0"

0 5 10 FT

FLOOR & ROOF PLAN KEY NOTES

1. EXISTING 19" WIDE ROOF ACCESS LADDER
2. NEW ROOF ACCESS HATCH TO REPLACE EXISTING. SEE DETAIL 11/A-503.
3. EXISTING SCUPPER & ASSOCIATED DOWNSPOUT. CLEAN, PAINT & REPAIR AS NEEDED.
4. EXISTING DRAIN INLET. PROVIDE NEW COVER. SEE DETAIL 9/A-503.
5. EXISTING CRICKET
6. EXISTING PARAPET, TYP.
7. NEW FLUID APPLIED ROOFING SYSTEM OVER (N) MIN R-8 RIGID INSULATION TO REPLACE EXISTING ROOFING. SEE DETAIL SHEET A-503 & SPECIFICATIONS.
8. NEW STANDING SEAM METAL ROOFING PER SPECIFICATIONS. SEE DETAIL 8/A-503.
9. EXISTING 5" GAP BETWEEN CONCRETE WALL & ROOFING ALLOWS FOR ROOF DRAINAGE ONTO ADJACENT ROOF
10. ROOF MOUNTED MECHANICAL EQUIPMENT. SEE MECHANICAL.
11. NEW ROOF ACCESS HATCH TO REPLACE EXISTING. SEE DETAIL 12/A-503.
12. (E) SKYLIGHT TO BE REGLAZED & REFURBISHED. SEE WINDOW SCHEDULE.

FLOOR & ROOF PLAN NOTES

1. REFER TO G-004 FOR OCCUPANCY & EGRESS PLANS.
2. PROVIDE PORTABLE FIRE EXTINGUISHES PER CBC SECTION 906 & CFC TABLE 906.1, WHICH INCLUDES DURING CONSTRUCTION. REVIEW WITH FIRE CODE OFFICIAL PRIOR TO INSTALLATION.
3. DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
4. REFER TO A-506 FOR ACCESSIBILITY NOTES AND DETAILS.
5. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS
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Sheet Title
MEZZANINE & ROOF PLANS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST | EUREKA, CA | 95501
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CEILING FINISH MATERIAL INDEX

LOCATION	MAT. CODE	DESCRIPTION	MANUFACTURER	MODEL NO.	SIZE	COLOR	NOTES
CEILING:	PL	PLASTER/GYP. BD.	-	-	-	-	
	PW	PLYWOOD	-	-	-	-	
	CT	CEILING TILE	-	-	-	-	
	CNC	CONCRETE	-	-	-	-	
	WD	WOOD PANELING	-	-	-	-	
	DK	STRUCTURAL DECKING*	-	-	-	-	

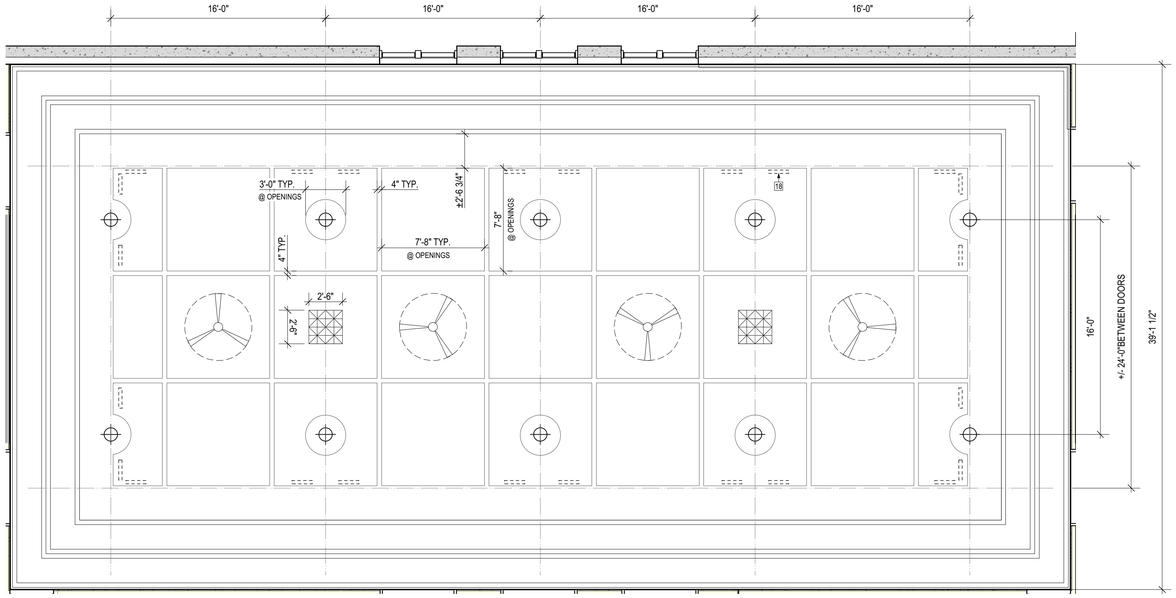
* (N) PLYWOOD SHEATHING, PER STRUCTURAL DRAWINGS, SANDED, & PAINTED IN AREAS WHERE EXPOSED.

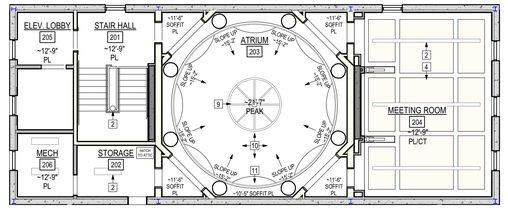
RCP KEY NOTES

1. EXISTING LIGHT FIXTURES. SEE ELECTRICAL
2. LIGHT FIXTURES, TYP. SEE ELECTRICAL.
3. 2" THICK FABRIC COVERED MINERAL FIBER ACOUSTICAL PANEL SUSPENDED w/ 6" SPACE BTWN NEW CEILING AND BACK SIDE OF PANELS, TYP.
4. 2" THICK FABRIC COVERED MINERAL FIBER ACOUSTICAL PANEL SUSPENDED w/ 4" SPACE BTWN NEW CEILING AND BACK SIDE OF PANELS, TYP.
5. RESTORE & REPAINT EXISTING PLASTER CROWN MOLDING AND SOFFIT
6. NEW CEILING FAN MOUNTED TO CEILING. PROVIDE CUTOUT IN ACOUSTICAL PANEL AS SHOWN.
7. RESTORE PLASTER CEILING GRATES & REINSTALL IN CEILING FOR GRAVITY RELIEF VENTING. COORDINATE w/ MECHANICAL.
8. EXPOSED MECHANICAL EQUIP., TYP.
9. REMOVE, CLEAN & REINSTALL (E) STAINED GLASS AT SKYLIGHT. PAINT SPACE ABOVE STAINED GLASS & BELOW SKYLIGHT BRIGHT WHITE.
10. REPAIR & RESTORE (E) PLASTER FINISHES IN ATRIUM DOME AREA.
11. RESTORE PAINTINGS IN PLASTER RECESSES IN DOME AREA, TYP.
12. PATCH & REPAIR CEILING IN KIND WHERE DISTURBED BY STRUCTURAL REPAIRS, TYP.
13. (E) AC TILES & PLASTER TO BE REMOVED & ABATED. REPLACE WITH (N) PLASTER TO MATCH (E) CEILING ON EXISTING FRAMING. SMOOTH LEVEL 5 FINISH, INSTALL (N) ACOUSTIC PANELS AS SHOWN.
14. (E) PLASTER TO BE ABATED & REPLACED (SEE DEMO PLANS) W/ (N) PLASTER. (E) CROWN MOLDING TO REMAIN.
15. PATCH/REFINISH PLASTER CEILING.
16. (N) GYP. CEILING
17. CLEAN & REFINISH PLASTER DETAILING
18. ADJUSTABLE LED LIGHTS, FOR LIGHTING UPPER WALLS, RECESSED IN GAP BETWEEN ACOUSTICAL PANEL & CEILING, TYP.

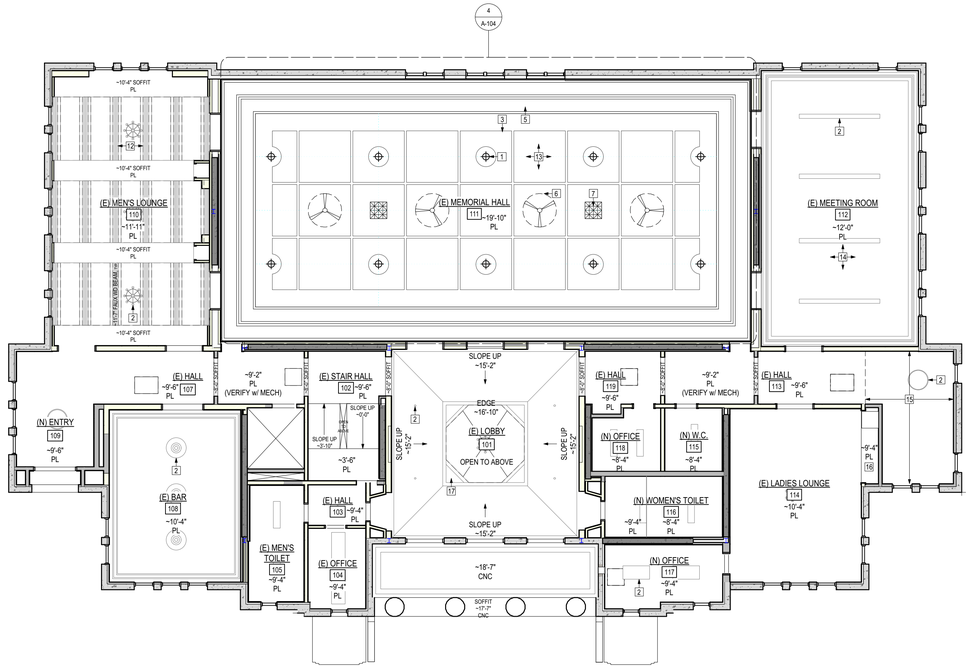
RCP NOTES

1. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION PLANS.
2. REFER TO "ASBESTOS SURVEY & PAINT SAMPLING REPORT" DATED DECEMBER 31, 2014 FOR AMBATEMENT REPORT AND DISPLOSAL RECOMMENDATIONS.



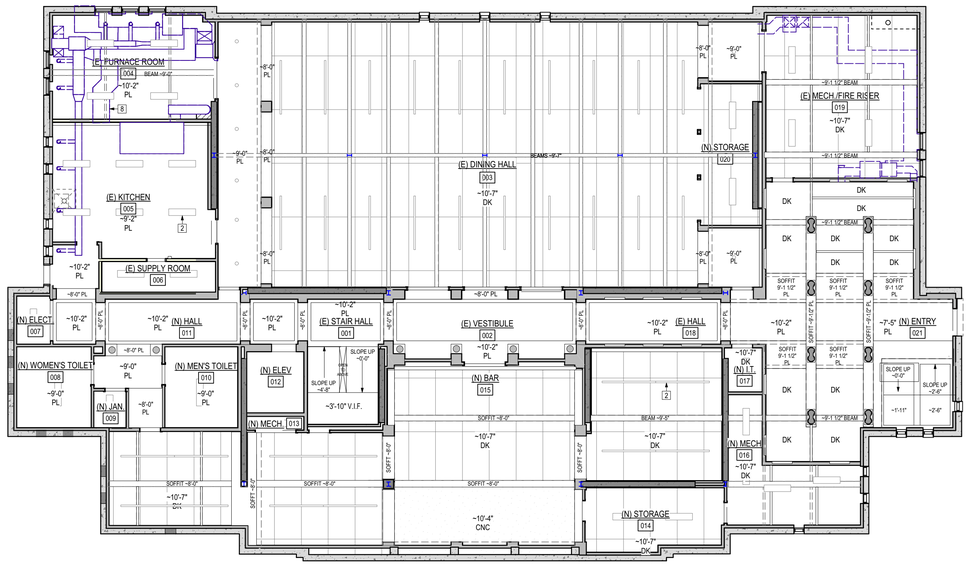


4 REFLECTED CEILING PLAN: FIRST FLOOR
Scale: 3/16" = 1'-0"



2 REFLECTED CEILING PLAN: FIRST FLOOR
Scale: 3/32" = 1'-0"

3 REFLECTED CEILING PLAN: MEZZANINE FLOOR
Scale: 3/32" = 1'-0"



1 REFLECTED CEILING PLAN: BASEMENT FLOOR
Scale: 3/32" = 1'-0"

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Sheet Title: REFLECTED CEILING PLANS

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1018 H ST. | EUREKA, CA | 95501
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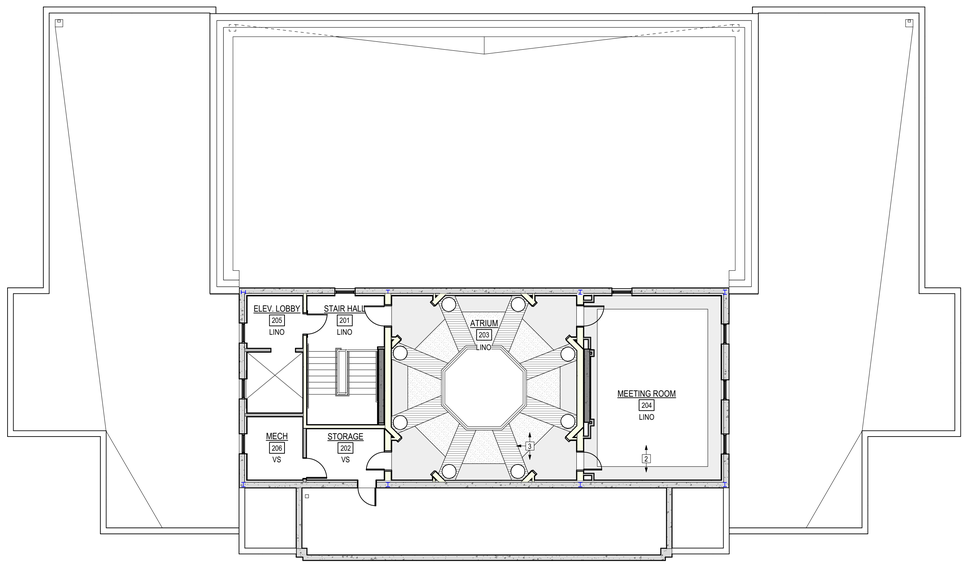


3 FINISH FLOOR PLAN: MEZZANINE FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR MATERIAL	NEW/ EXIST	BASE	WALLS NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT	NOTES
001	STAIR HALL	CONC	N	WB-4	GWB	GWB	GWB	GWB	GWB	8'-4"	
002	VESTIBULE	CONC	N	WB-4	GWB	GWB	GWB	GWB	GWB	8'-10"	
003	DINING HALL	CONC	N	WB-2/WB-3	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
004	FURNACE ROOM	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
005	KITCHEN	QT	N	CT	FRP	GWB	FRP	SS	GWB	VARIES	
006	SUPPLY ROOM	QT	N	CT	GWB	GWB	GWB	GWB	GWB	10'-6"	
007	ELECT	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
008	WOMEN'S TOILET	CT	N	CT	TILE	TILE	TILE	TILE	GWB	8'-4"	
009	JANITOR	CONC	N	RB	GWB	GWB	GWB	GWB	GWB	8'-4"	
010	MEN'S TOILET	CT	N	CT	TILE	TILE	TILE	TILE	GWB	8'-4"	
011	HALL	CONC	N	WB-4	GWB	GWB	GWB	GWB	GWB	8'-4"	
012	ELEV				GWB	GWB	GWB	GWB			
013	STORAGE	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
014	STORAGE	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
015	BAR	CONC	N	WB-1	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
016	MECHANICAL	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
017	I.T.	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
018	HALL	CONC	N	WB-4	GWB	GWB	GWB	GWB	GWB	8'-4"	
019	STORAGE	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
020	STORAGE	CONC	N	RB	GWB	GWB	GWB	GWB	PLYWD	10'-7"	
021	ENTRY	CONC	N	WB-1	GWB	GWB	GWB	GWB	GWB	VARIES	
101	LOBBY	TT	E	TB	PLST	PLST	PLST	PLST	PLST	VARIES	
102	STAIR HALL	LINO	N	WB-3	GWB	GWB	GWB	GWB	PLST	9'-1"	
103	HALL	LINO	N	WB-3	PLST	PLST	PLST	PLST	PLST	9'-4"	
104	OFFICE	LINO	N	WB-3	PLST	PLST	PLST	PLST	PLST	9'-4"	
105	MEN'S TOILET	TT	E	TB	TILE	TILE	TILE	TILE	PLST	9'-4"	
107	HALL	LINO	N	WB-3	-	PLST	-	GWB	PLST	9'-6"	
108	BAR	VT	N	WB-3	GWB	PLST	PLST	PLST	PLST	10'-4"	
109	ENTRY	LINO	N	WB-3	GWB	GWB	GWB	GWB	GWB	9'-6"	
110	MEN'S LOUNGE	HWD	E	WB-3	PLST	PLST	PLST	PLST	PLST/WDTM	11'-11"	(E) HWD FLR TO BE EXPOSED & REFINISHED
111	MEMORIAL HALL	HWD	E	WB-3	PLST	PLST	PLST	PLST	GWB/AP	19'-11"	(E) HWD FLR TO BE REFINISHED
112	MEETING ROOM	HWD	E	WB-3	PLST	PLST	PLST	PLST	GWB	12'-0"	(E) HWD FLR TO BE EXPOSED & REFINISHED
113	HALL	LINO	N	WB-3	PLST	PLST	-	GWB	GWB	9'-6"	
114	LADIES LOUNGE	HWD	E	WB-3	PLST	PLST	GWB	PLST	PLST	10'-4"	(E) HWD FLR TO BE REFINISHED
115	W.C.	CT	N	CT	TILE	TILE	TILE	TILE	GWB	8'-4"	
116	WOMEN'S TOILET	CT	N	CT	TILE	TILE	TILE	TILE	GWB	8'-4"/9'-4"	
117	OFFICE	HWD	E	WB-1	GWB	GWB	GWB	GWB	PLST	9'-4"	
118	OFFICE	LINO	N	WB-1	PLST	GWB	GWB	GWB	PLST	8'-4"	
119	HALL	LINO	N	WB-1	-	PLST	-	GWB	GWB	9'-6"	
201	STAIR HALL	LINO	N	WB-1	GWB	GWB	GWB	PLST	PLST	12'-0"	
202	STORAGE	VS	N	RB	PLST	PLST	GWB	PLST	PLST	12'-9"	
203	ATRIUM	LINO	N	TB	PLST	PLST	PLST	PLST	PLST	VARIES	3 PATTERN LINO COLOR SCHEME
204	MEETING ROOM	LINO	N	WB-1	PLST	PLST	GWB	PLST	GWB	12'-9"	
205	ELEV. LOBBY	LINO	N	WB-1	PLST	GWB	PLST	PLST	PLST	12'-9"	
206	MECH	VS	N	RB	GWB	PLST	GWB	PLST	PLST	12'-9	

FINISH MATERIAL INDEX

LOCATION	MAT. CODE	DESCRIPTION	MANUFACTURER	MODEL NO.	SIZE	COLOR	DETAIL	NOTES
FLOORS:	CONC	CONCRETE W/ THINSET	-	-	-	-	1/A-502	
	VT	VINYL TILE	-	-	-	-	-	B&W CHECKER
	VS	VINYL SHEET						
	LINO	LINOLEUM SHEET						
	CPT	CARPET TILE	-	-	-	-	-	
	HWD	HARDWOOD						FLOOR TO BE REFINISHED
	TT	TERRAZZO TILE	-	-	-	-	-	
	CT	CERAMIC TILE	-	-	-	-	12/A-508	
	QT	QUARRY TILE	-	-	-	-	12/A-508	
BASE:	WB-1	7" WOOD BASE	-	-	-	-	-	
	WB-2	4" & 12" WOOD BASE	-	-	-	-	13/A-508	
	WB-3	12" WOOD BASE	-	-	-	-	-	
	WB-4	5.5" WOOD BASE w/ WAINSCOTING	-	-	-	-	4/A-508	
	CT	4" COVED TILE	-	-	-	-	12/A-508	
	TB	6"TERRAZZO BASE	-	-	-	-	-	
	RB	RUBBER BASE	-	-	-	-	-	
WALLS:	PLST	PLASTER	-	-	-	-	-	
	GWB	GYPSUM BOARD	-	-	-	-	-	
	SS	STAINLESS STEEL	-	-	-	-	-	
	TILE	CERAMIC WALL TILE	-	-	-	-	-	
	FRP	FIBER-REINFORCED PLASTIC	-	-	-	-	-	
	WP	WOOD PANELING	-	-	-	-	-	
CEILING:	PLST	PLASTER	-	-	-	-	-	
	WDTM	WOOD TRIM	-	-	-	-	-	
	AP	ACOUSTIC PANELS	-	-	-	-	-	
	PLYWD	PAINTED PLYWOOD	-	-	-	-	-	
	GWB	GYPSUM BOARD	-	-	-	-	-	

FINISH KEY NOTES

1 PROTECT (E) FLOORING DURING CONSTRUCTION

2 2 COLOR LINOLEUM FLOORING LAYOUT

3 3 COLOR LINOLEUM FLOORING LAYOUT

FINISH NOTES:

1. REFER TO SPECIFICATIONS AND RELATED PRODUCT REQUIREMENTS AND SUBMITTAL PROCEDURES

2. VERIFICATION ALL FINISH PRODUCT OPTIONS INCLUDING, BUT NOT LIMITED TO COLOR, SIZE, THICKNESS, TEXTURE, AND VOC ALLOWABLE LIMITS w/ ARCHITECT.

3. REFER TO INTERIOR ELEVATIONS FOR INDIDIVUAL ROOM FINISHES

4. PREP, PRIME & REPAINT THROUGHOUT ALL ROOMS.

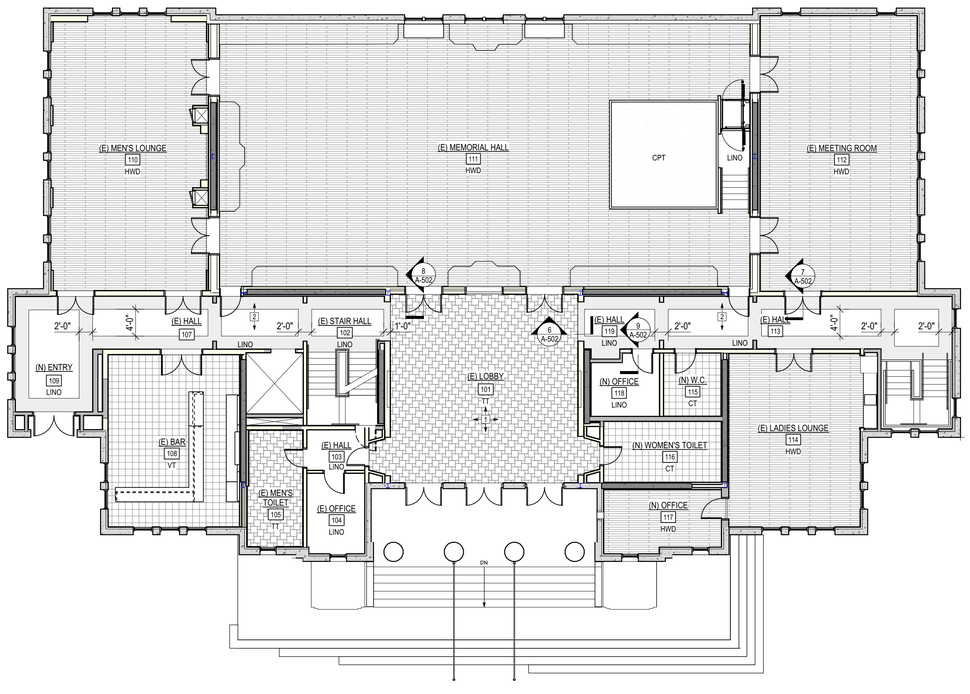
5. SEE SHEET A-502 FOR THRESHOLD & BASEBOARD DETAILS

6. SEE DEMOLITION PLANS FOR EXISTING FINISHES TO BE REMOVED

7. REPAIR OR REPLACE ANY FINISHES IN KIND THAT HAVE TO BE DEMOLISHED OR ARE DAMAGED DURING CONSTRUCTION.

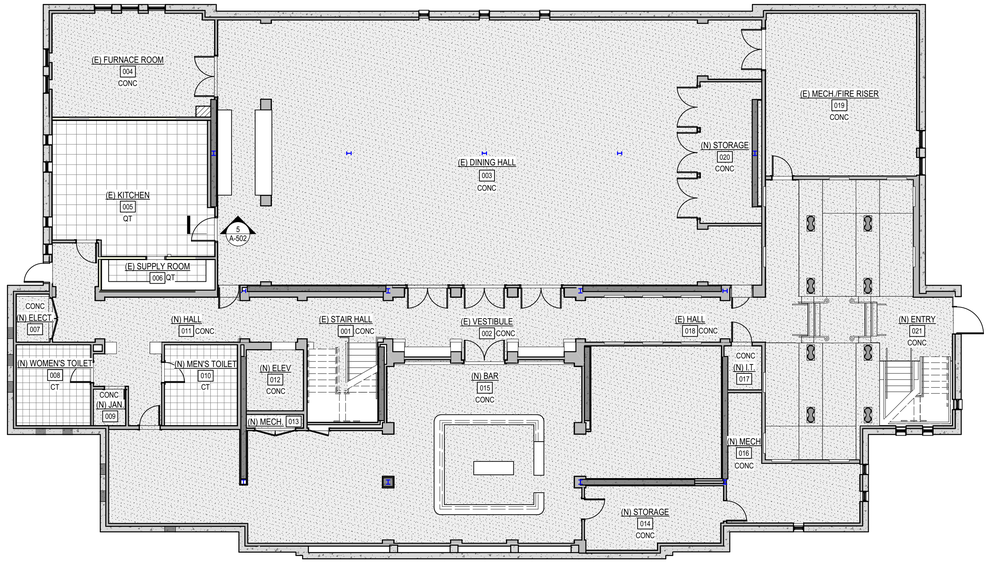
8. SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS THAT VARY IN INDIVIDUAL ROOMS.

9. EXISTING PLASTER WALLS AND CEILINGS WILL BE PATCHED WITH GYPSUM BOARD IN AREAS THAT ARE DEMOLISHED OR REQUIRE PATCHING.



2 FINISH FLOOR PLAN: FIRST FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT



1 FLOOR FINISH PLAN: BASEMENT FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT

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Sheet Title
FLOOR FINISH PLANS & SCHEDULES

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

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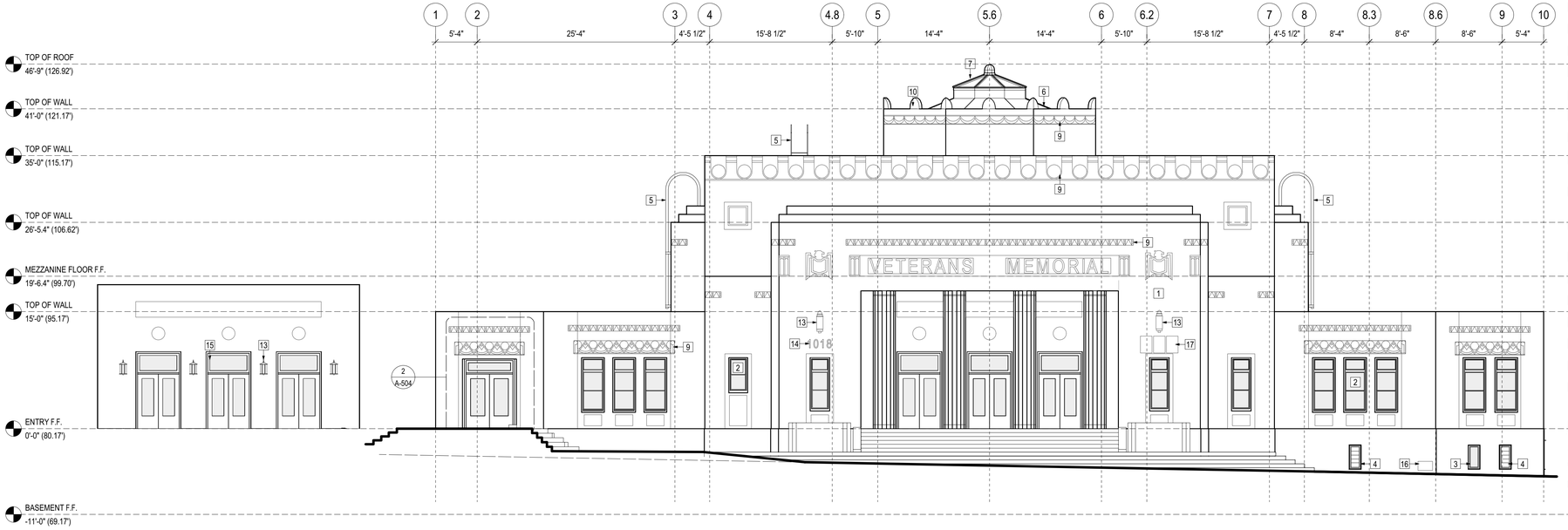


3 FRONT ENTRY ELEVATION
Scale: 1/8" = 1'-0"

1 EAST ELEVATION
Scale: 1/8" = 1'-0"

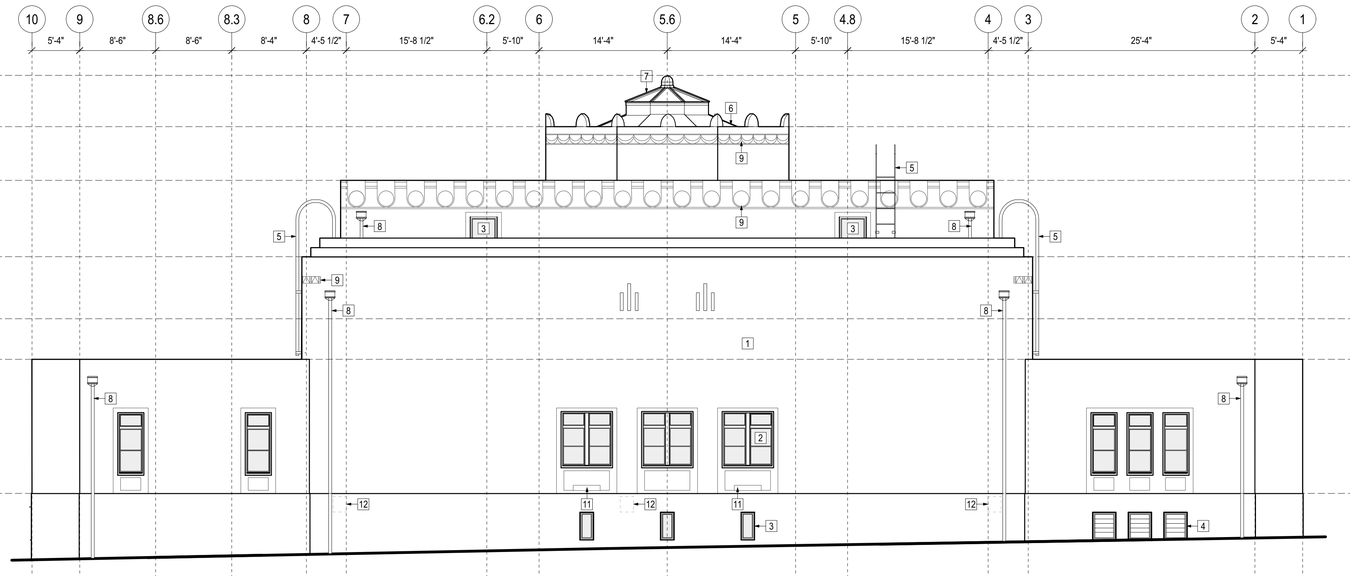
0 5 10 FT

ELEVATION KEY NOTES

1. PREP, PRIME & REPAINT CONCRETE, TYP.
2. (E) DOUBLE PANE VINYL WINDOWS, TYP.
3. (N) ALUMINUM WINDOWS, TYP. SEE WINDOW SCHEDULE.
4. (N) METAL LOUVERS. SEE MECHANICAL.
5. (E) 18" ROOF ACCESS STEEL LADDER. PREP, PRIME & REPAINT.
6. (N) STANDING SEAM METAL ROOF
7. REGLAZE & REFURBISH (E) SKYLIGHT
8. (E) SCUPPER & 3"X4" DOWNSPOUT. REPAIR & REPLACE FLASHING & DOWNSPOUT TO MATCH AS NEEDED. PREP, PRIME & PAINT, TYP.
9. (E) CAST ORNAMENTATION, TYP. TAKE A MOLD & REPLACE ANY ORNAMENTATION DAMAGED OR TO BE DEMOLISHED DURING CONSTRUCTION.
10. (E) CAST ORNAMENT @ UPPER PARAPET. EXAMINE EACH & REPAIR CRACKING. EPOXY INJECT CRACKS & MOUNTING TO SECURE TO BUILDING, TYP.
11. REFURBISH EXISTING SHT. METAL HOODS. SEE MECHANICAL.
12. PATCH CONCRETE @ REMOVED MECHANICAL PENETRATIONS. SEE MECHANICAL.
13. REFURBISH EXISTING SCONCE, TYPE. SEE ELECTRICAL.
14. (N) BRONZE LETTERS
15. REFURBISH (E) BRONZE DOORS, TYP.
16. (E) CORNERSTONE PLAQUE
17. REFURBISH, RELOCATE & REMOUNT (E) AMERICAN LEGION, V.F.W. & EUREKA VIETNAM VETERANS MEMORIAL SIGNS

ELEVATIONS NOTES

1. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY.



2 WEST ELEVATION
Scale: 1/8" = 1'-0"

0 5 10 FT

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Sheet Title
ELEVATIONS - EAST & WEST

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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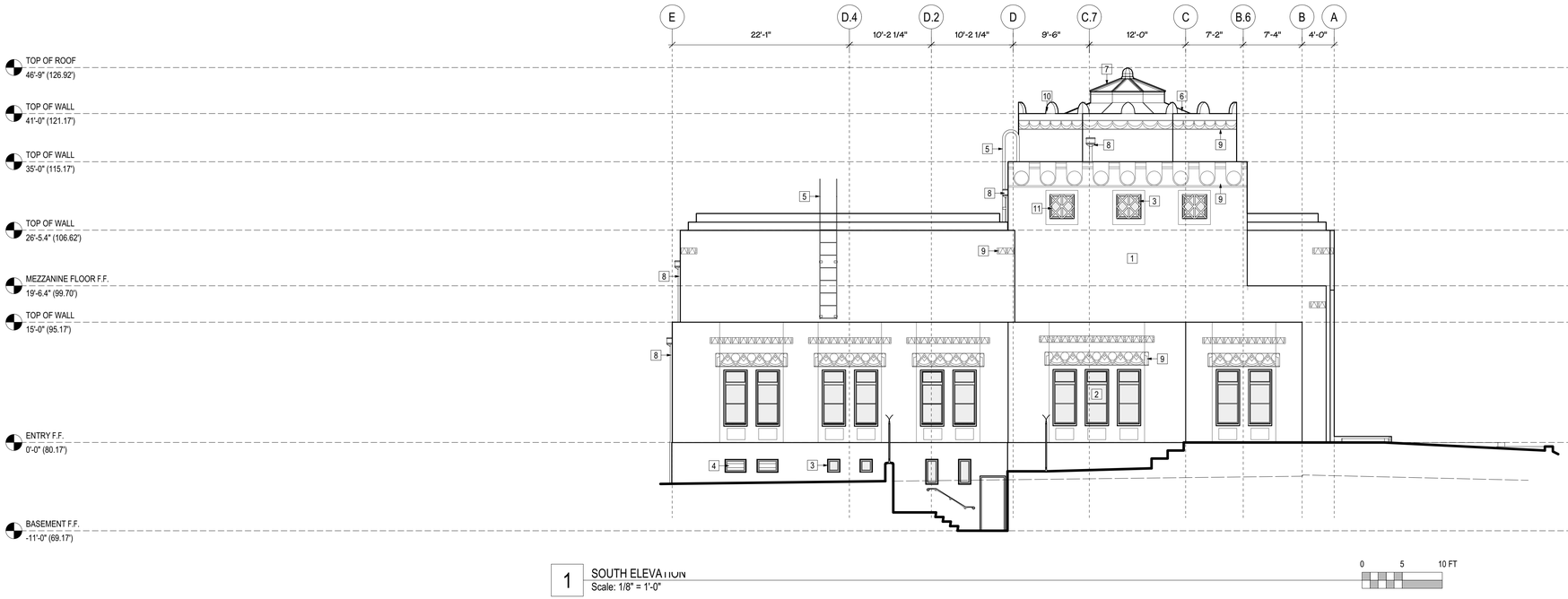
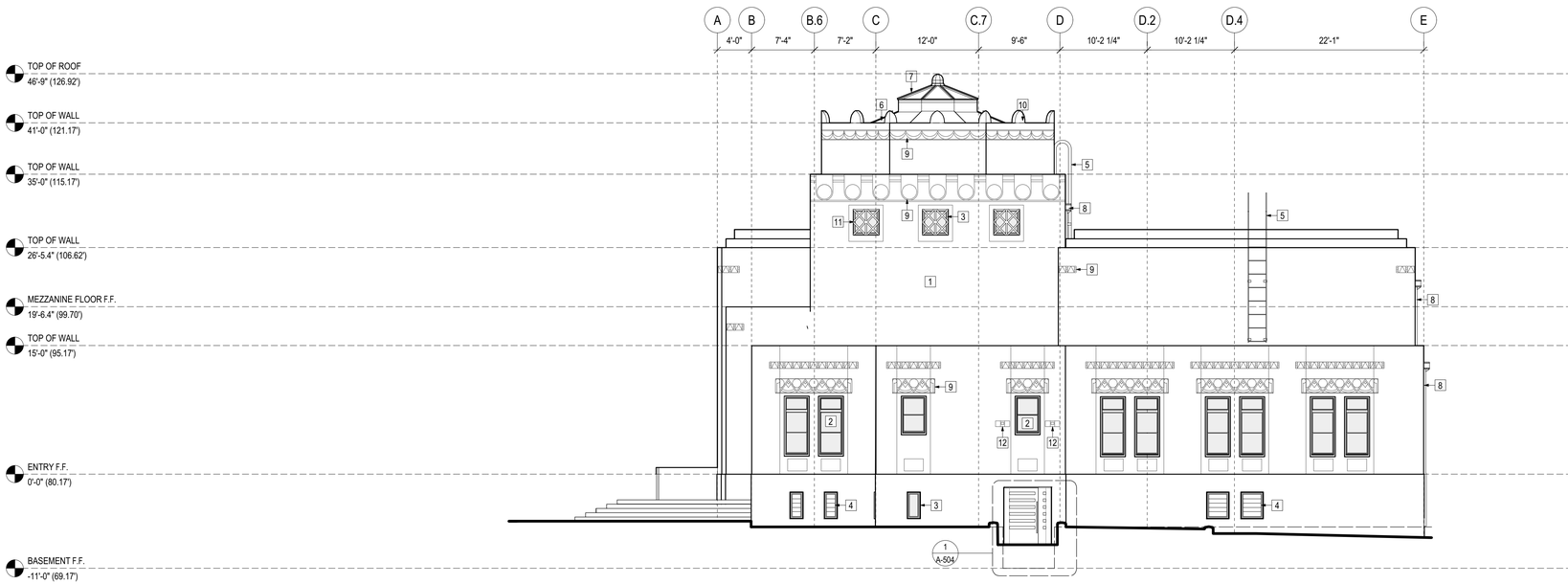


1 SOUTH ELEVATION
Scale: 1/8" = 1'-0"

0 5 10 FT



2 NORTH ELEVATION
Scale: 1/8" = 1'-0"

0 5 10 FT

ELEVATION KEY NOTES

1. PREP, PRIME & REPAINT CONCRETE, TYP.
2. (E) DOUBLE PANE VINYL WINDOWS, TYP.
3. (N) ALUMINUM WINDOWS, TYP. SEE WINDOW SCHEDULE.
4. (N) METAL LOUVERS SEE MECHANICAL.
5. (E) 18" ROOF ACCESS STEEL LADDER. PREP, PRIME & REPAINT.
6. (N) STANDING SEAM METAL ROOF
7. REGLAZE & REFURBISH (E) SKYLIGHT
8. (E) SCUPPER & 3"X4" DOWNSPOUT. REPAIR & REPLACE FLASHING & DOWNSPOUT AS NEEDED. PREP, PRIME & PAINT, TYP.
9. (E) CAST ORNAMENTATION, TYP. TAKE A MOLD & REPLACE ANY ORNAMENTATION DAMAGED OR TO BE DEMOLISHED DURING CONSTRUCTION.
10. (E) CAST ORNAMENT @ UPPER PARAPET. EXAMINE EACH & REPAIR CRACKING. EPOXY INJECT CRACKS & MOUNTING TO SECURE TO BUILDING, TYP.
11. E) CAST GRILL, TYP. TAKE A MOLD & REPLACE ANY ORNAMENTATION DAMAGED OR TO BE DEMOLISHED DURING CONSTRUCTION.
12. REFURBISH EXISTING SCONCE, TYP. SEE ELECTRICAL.

ELEVATIONS NOTES

1. REFER TO STRUCTURAL WALL ELEVATIONS FOR CONCRETE FACADE CRACK & SPALLING LOCATIONS & SHEET S4.20 FOR THE REPAIR SCHEDULE. MARKS 4 & 5 REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING. MARKS 1 & 2 MIGHT REQUIRE ACCESS FROM THE INTERIOR OF THE BUILDING DEPENDING ON SEVERITY.

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Sheet Title
ELEVATIONS - NORTH & SOUTH

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
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APN: 005-023-002

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Date 11/10/16
Scale Sheet Scale
Sheet No. A-202

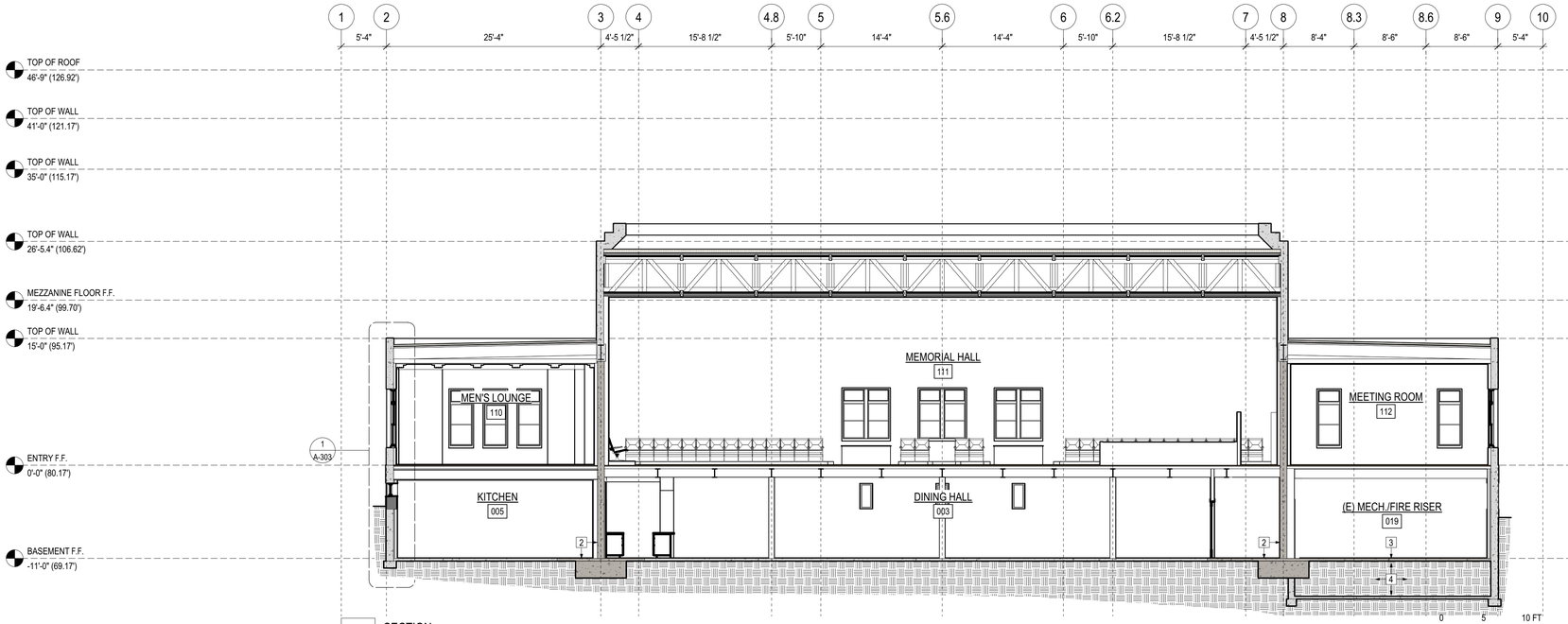
Date: 11/18/16 Time: 2:01:39 PM File name: Vets Hall_181107_CD.vwx

SECTION KEY NOTES

1. REMOVE, CLEAN & REPAIR (E) STAINED GLASS & SKYLIGHT WELL
2. NEW CONCRETE WALLS & FOUNDATIONS PER STRUCTURAL, TYP.
3. NEW SLAB PER STRUCTURAL
4. INFILL LOWERED FLOOR AREA w/ STRUCTURAL FILL. CONNECT DRAINAGE TO SUMP SYSTEM.
5. REPAIR & RESTORE PLASTER, TYP.
6. RESTORE PAINTING & DECORATIVE PLASTER, TYP.

SECTION NOTES

1. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS



1 SECTION
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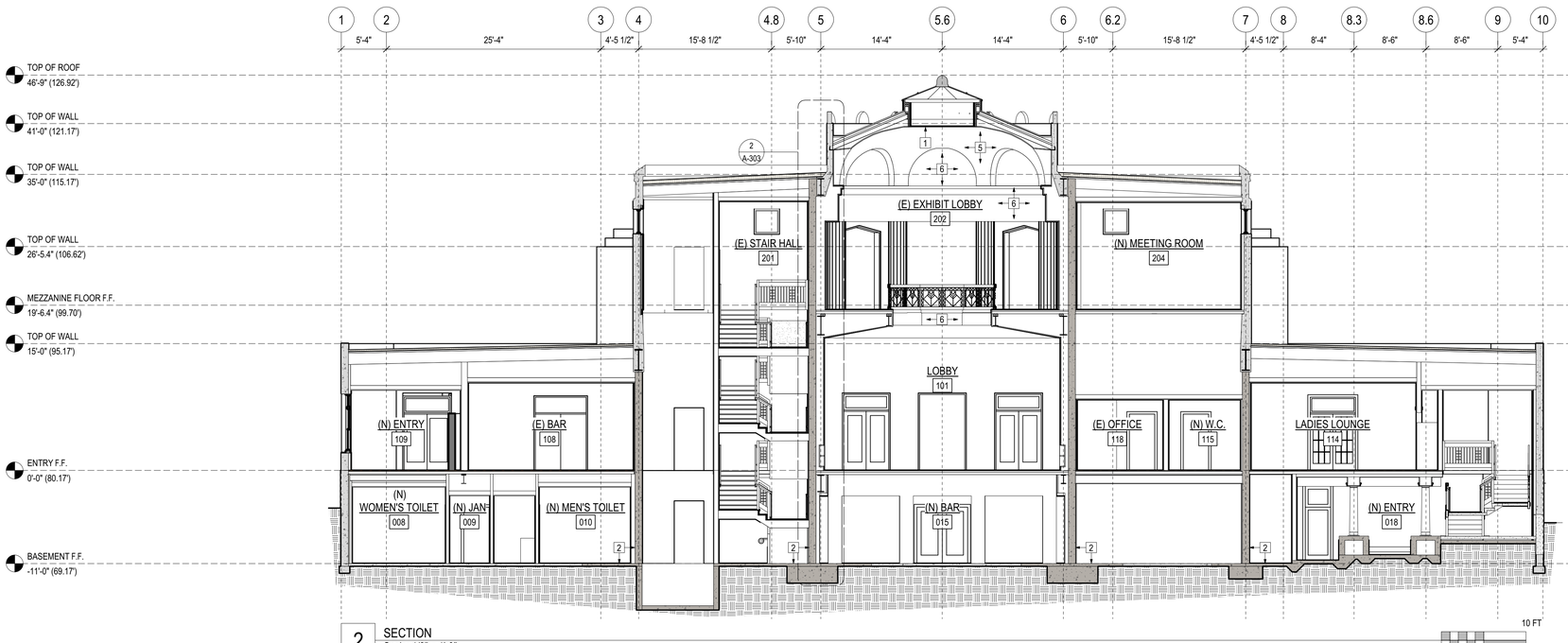

2 SECTION
Scale: 1/8" = 1'-0"

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Sheet Title: SECTIONS

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-301

Date: 11/10/16 Time: 2:31:37 PM File name: Vets Hall - 161107 - CD.vwx

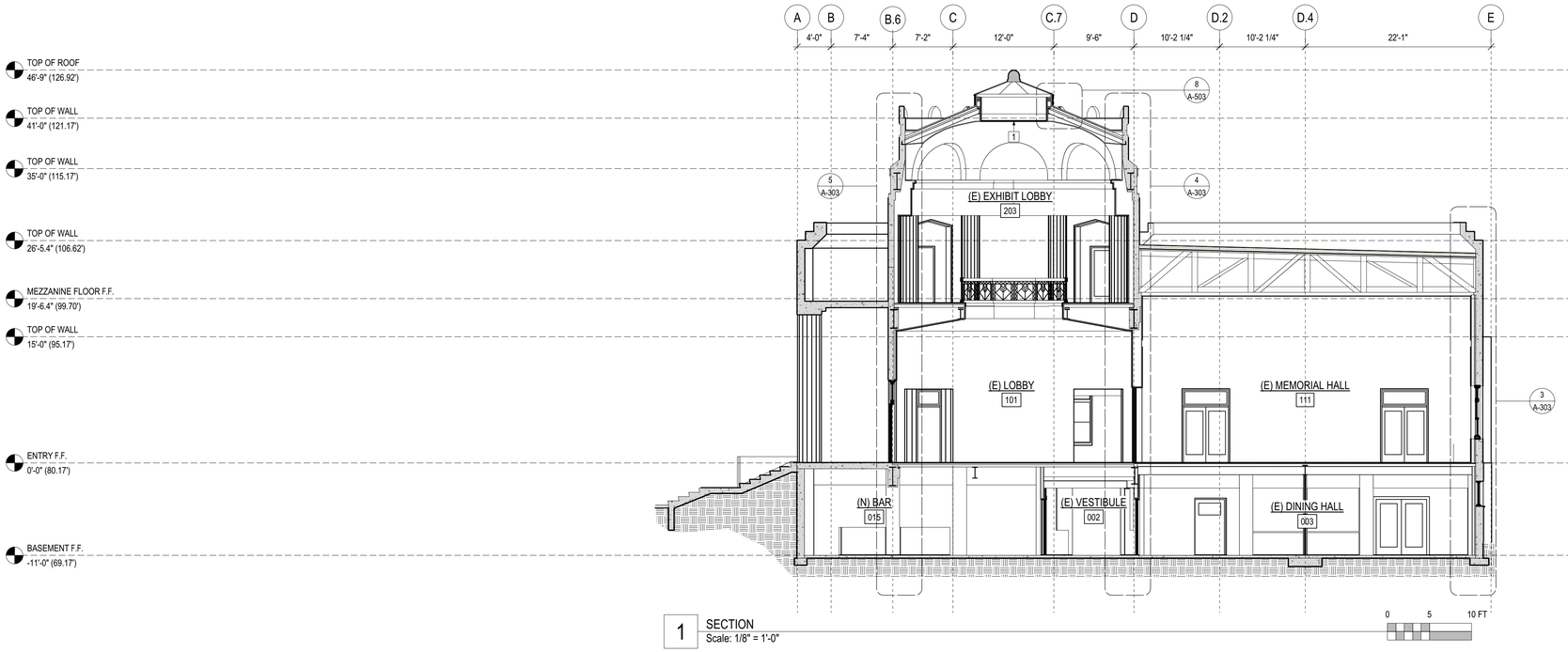
SECTION KEY NOTES

1 REMOVE, CLEAN & REPAIR (E) STAINED GLASS & SKYLIGHT WELL

2 NEW CONCRETE WALLS & FOUNDATIONS PER STRUCTURAL, TYP.

SECTION NOTES

1. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS



1 SECTION
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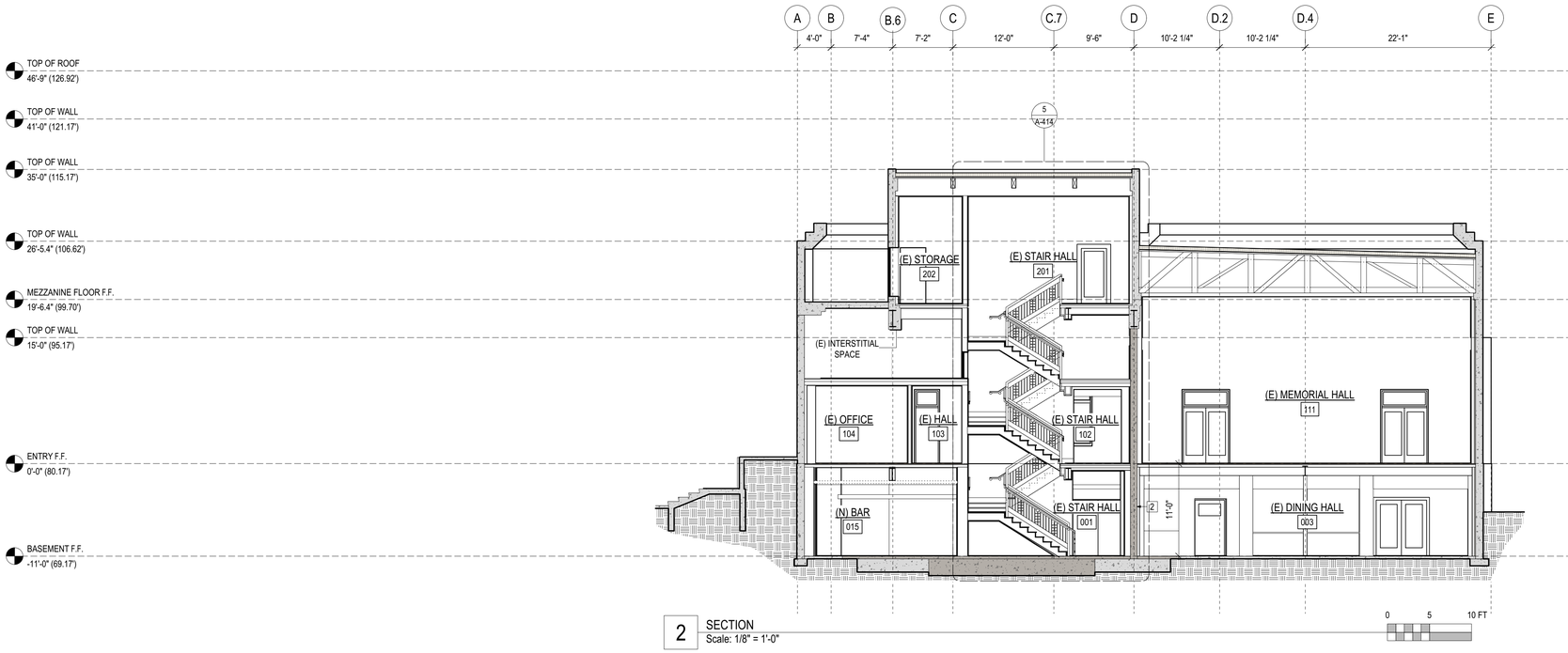

2 SECTION
Scale: 1/8" = 1'-0"

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Sheet Title
SECTIONS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
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Project ID
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No.	Date	Appr	Revision Notes
1			

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Sheet No.
A-302

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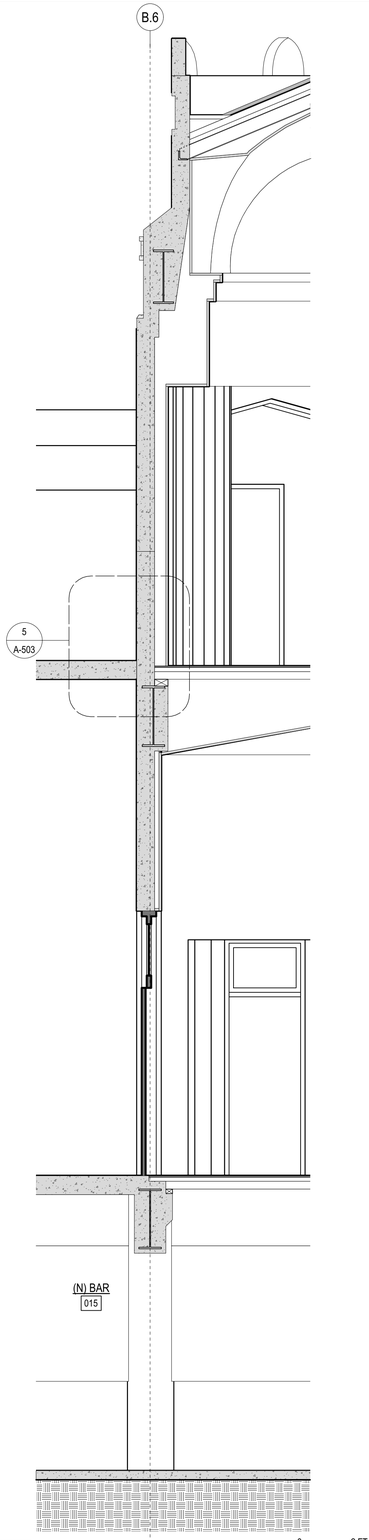
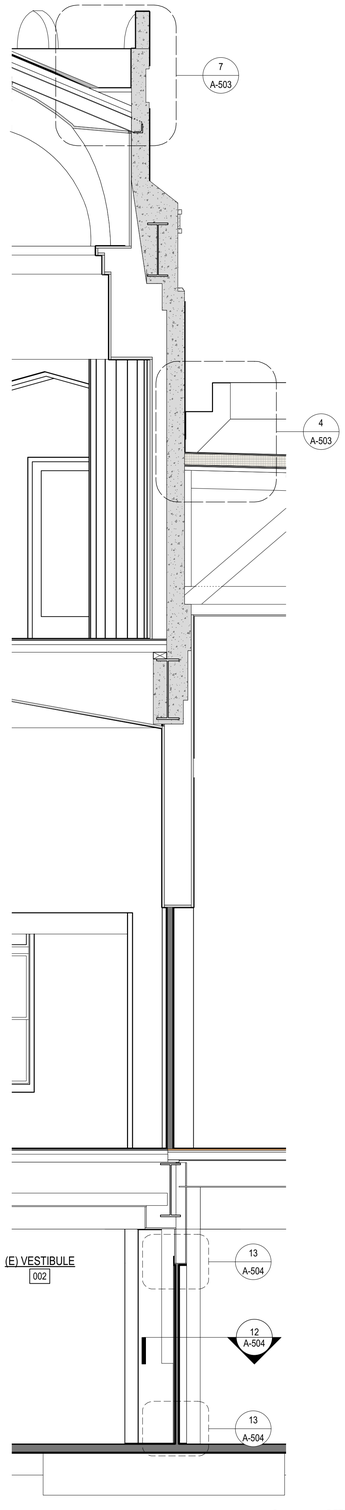


5 WALL SECTION
Scale: 3/8" = 1'-0"



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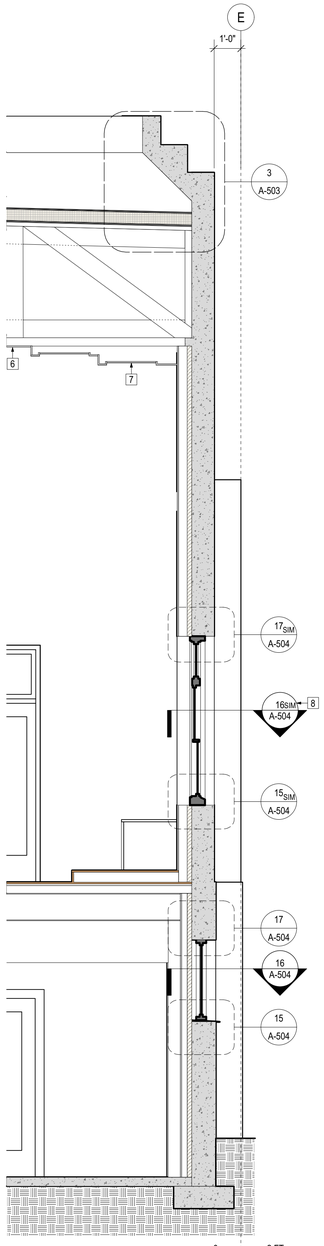

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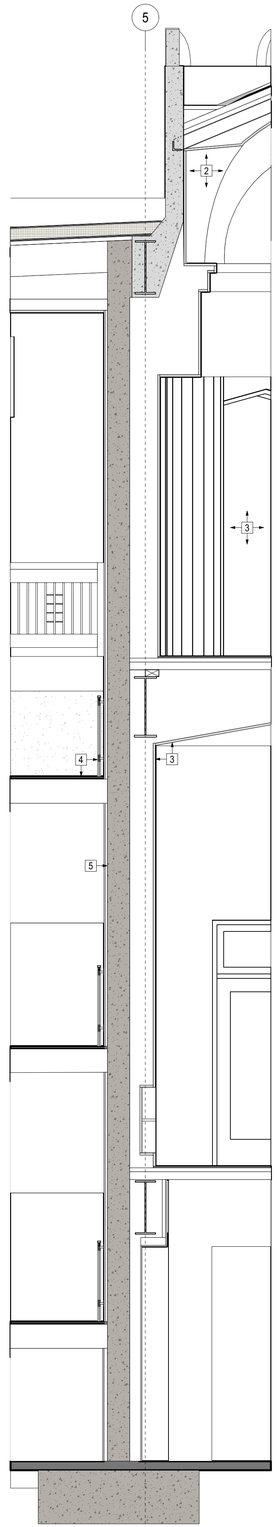
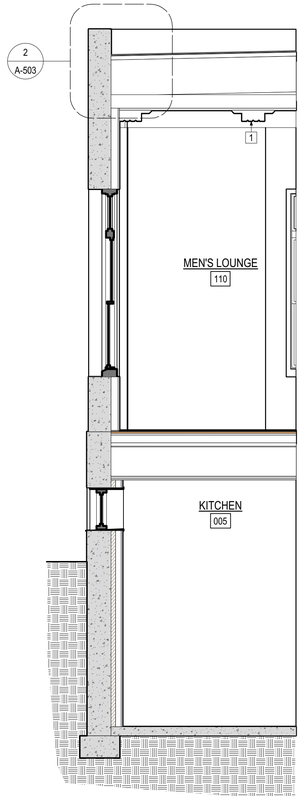
Scale: 3/8" = 1'-0"



2 WALL SECTION
Scale: 3/8" = 1'-0"



1 WALL SECTION
Scale: 3/8" = 1'-0"

SECTION KEY NOTES

1. (E) DETAILING @ CEILING TO REMAIN
2. PLASTER DOME:
   - PATCH, REPAIR & PAINT AS NECESSARY
   - RESTORE PAINTING/GOLD LEAFING AS NECESSARY
3. PROTECT ALL (E) PLASTOR & FINISHES IN LOBBY AREA & MEZZANINE
4. (N) STAIR ASSEMBLY
5. (N) SHEAR WALL PER STRUCTURAL
6. (N) GYP. CEILING
7. PROTECT (E) PLASTER CROWN MOLDING. PATCH & REPAIR AS NEEDED.
8. WINDOW DETAILS SIMILAR @ (N) INT> WALL FINISHES @ (E) VINYL WINDOWS.

SECTION NOTES

1. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS

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APN: 005-023-002

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Sheet Title
WALL SECTIONS

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Date 11/10/16
Scale Sheet Scale
Sheet No. A-303

Date: 11/15/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx

BATHROOM NOTES:

1. ALL CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

2. ALL ACCESSORIES PROVIDED ON OR WITHIN WALLS SHALL BE SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

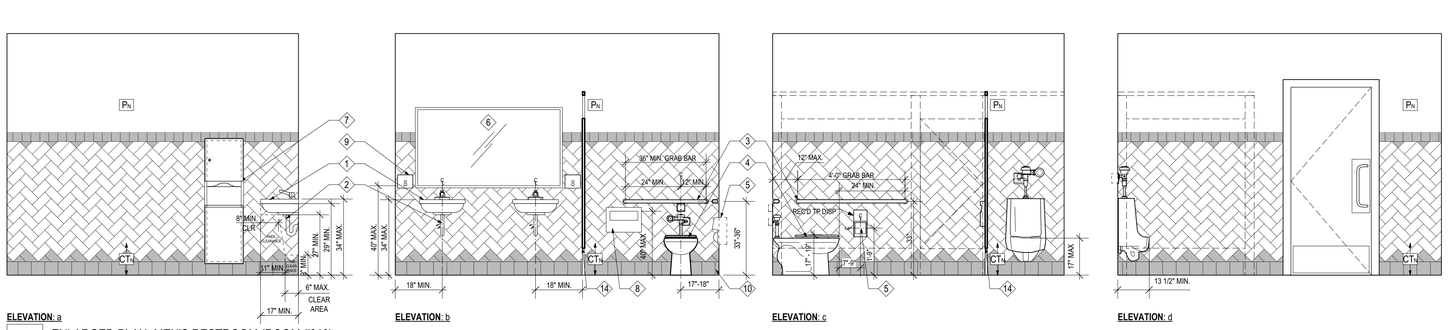
INTERIOR ELEVATION KEY NOTES

FINISHES

- PN NEW GYPSUM BOARD - PAINTED
- CTN NEW CERAMIC TILE ON FLOOR AND UP WALL TO MATCH HEIGHT OF PAPER TOWEL DISPENSER. PER DETAIL 10/A-502.

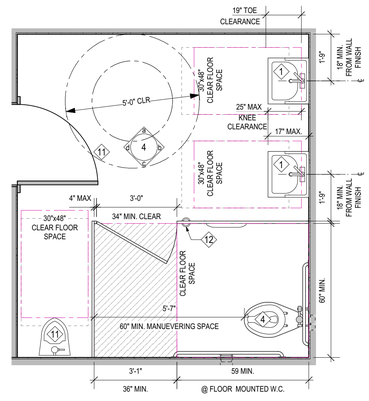
EQUIPMENT

1. WALL MOUNTED SINK. SINK BOWL INSIDE DEPTH 6" MAX. SEE PLUMBING PLANS.
2. INSULATE DRAIN & HOT AND COLD WATER PIPES, NO SHARP OR ABRASIVE ELEMENTS, TYP.
3. STAINLESS STEEL GRAB BAR, PER 11B-604.5
4. WATER CLOSET W/ OPEN FRONT TYPE SEAT & FLUSH ACTIVATOR ON OPEN SIDE. SEE PLUMBING PLANS.
5. TOILET PAPER DISPENSER. MUST PERMIT CONTINUOUS PAPER FLOW.
6. CHANNEL FRAME MIRROR. CENTERED OF SINK. MIN. 66" WIDE x 36" HIGH.
7. STAINLESS STEEL PAPER TOWEL DISPENSER. 15"-40" TO CONTROLS, TYP.
8. STAINLESS STEEL COVER DISPENSER. 15"-40" TO CONTROLS, TYP.
9. 40 OZ SOAP DISPENSER. 40" MAX TO CONTROLS, TYP.
10. 6" COVE TILE BASE
11. WALL MOUNTED URINAL. 13 1/2" MIN. DEEP. SEE PLUMBING PLANS.
12. FLOOR DRAIN. SEE PLUMBING PLANS.
13. NOT USED
14. NEW SOLID PHENOLIC TOILET COMPARTMENT PARTITION

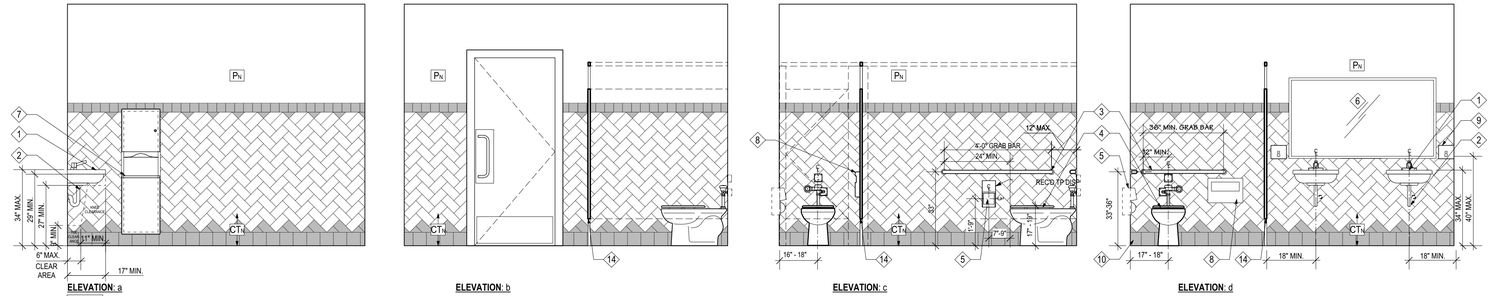


ELEVATION: a | ELEVATION: b | ELEVATION: c | ELEVATION: d

4 ENLARGED PLAN: MEN'S RESTROOM (ROOM #010)
Scale: 3/8" = 1'-0"

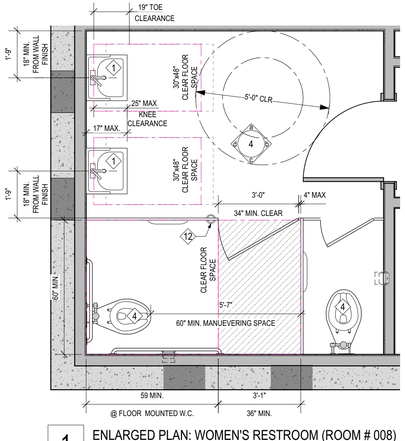


3 ENLARGED PLAN: MEN'S RESTROOM (ROOM #010)
Scale: 3/8" = 1'-0"



ELEVATION: a | ELEVATION: b | ELEVATION: c | ELEVATION: d

2 ENLARGED PLAN: WOMEN'S RESTROOM (ROOM #008)
Scale: 3/8" = 1'-0"



1 ENLARGED PLAN: WOMEN'S RESTROOM (ROOM # 008)
Scale: 3/8" = 1'-0"

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BASEMENT BATHROOMS

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
A.P.N: 005-023-002

Project Title

210502

Project ID

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-401

Date: 11/16/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx

BATHROOM NOTES:

1. ALL CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

2. ALL ACCESSORIES PROVIDED ON OR WITHIN WALLS SHALL BE SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

3. MEN'S RESTROOM (ROOM #105) IS CONSIDERED HISTORICAL AND ISN'T REQUIRED TO MEET CURRENT CODE.

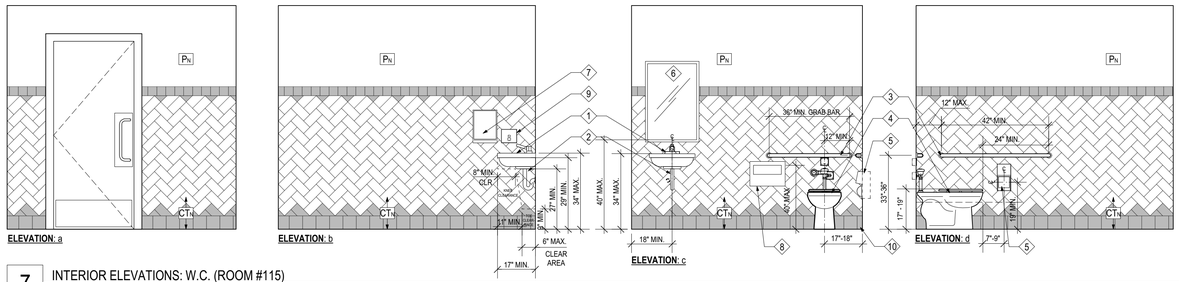
INTERIOR ELEVATION KEY NOTES

FINISHES

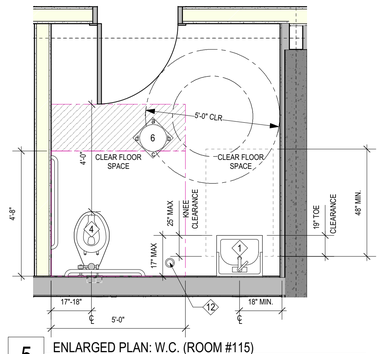
- P — EXISTING PLASTER - PAINTED
- PN — NEW GYPSUM BOARD - PAINTED
- CT — EXISTING CERAMIC TILE ON FLOOR AND UP WALL TO 54" A.F.F.
- CTN — NEW CERAMIC TILE ON FLOOR AND UP WALL TO ±5'-4" A.F.F. PER DETAIL 10/A-502.

EQUIPMENT

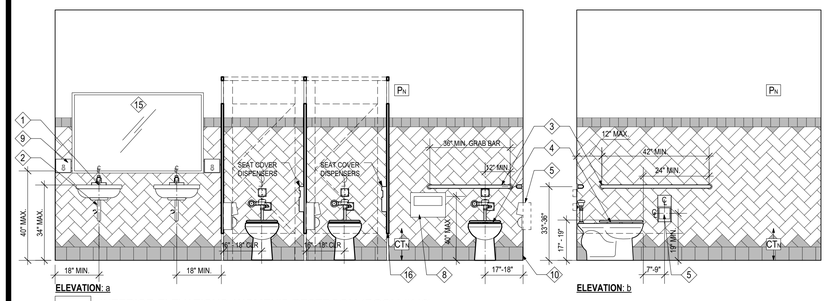
1. WALL MOUNTED SINK. SINK BOWL INSIDE DEPTH 6" MAX. SEE PLUMBING PLANS.
2. INSULATE DRAIN & HOT AND COLD WATER PIPES, NO SHARP OR ABRASIVE ELEMENTS, TYP.
3. STAINLESS STEEL GRAB BAR, PER 11B-604.5
4. WATER CLOSET W/ OPEN FRONT TYPE SEAT & FLUSH ACTIVATOR ON OPEN SIDE. SEE PLUMBING PLANS.
5. TOILET PAPER DISPENSER. MUST PERMIT CONTINUOUS PAPER FLOW.
6. CHANNEL FRAME MIRROR. CENTERED ON SINK. MIN. 24" WIDE x 36" HIGH.
7. STAINLESS STEEL PAPER TOWEL DISPENSER. 15"-40" TO CONTROLS, TYP.
8. STAINLESS STEEL COVER DISPENSER. 15"-40" TO CONTROLS, TYP.
9. 40 OZ SOAP DISPENSER. 40" MAX TO CONTROLS, TYP.
10. 6" COVE TILE BASE
11. EXISTING WALL MOUNTED URINAL. SEE PLUMBING PLANS.
12. FLOOR DRAIN. SEE PLUMBING PLANS.
13. HISTORICAL PLUMBING FIXTURE. PROTECT DURING CONSTRUCTION & REPAIR ANY DAMAGE INCURRED. SEE PLUMBING PLANS.
14. HISTORICAL COMPARTMENT PARTITIONS. REMOVE AND REINSTALL ANY IMPACTED BY CONSTRUCTION. PROTECT DURING CONSTRUCTION & REPAIR ANY DAMAGE INCURRED.
15. CHANNEL FRAME MIRROR. CENTERED ON SINK. MIN 60" WIDE x 36" HIGH.
16. NEW SOLID PHENOLIC TOILET COMPARTMENT PARTITION
17. IN AREAS OF (N) TILE INFILL @ (E) BATHROOM, REUSE EXISTING TILE (FROM DEMO OF WALL & WOMEN'S BATHROOM) TO INFILL.



7 INTERIOR ELEVATIONS: W.C. (ROOM #115)
Scale: 3/8" = 1'-0"



5 ENLARGED PLAN: W.C. (ROOM #115)
Scale: 3/8" = 1'-0"



4 INTERIOR ELEVATIONS: WOMEN'S RESTROOM (ROOM #116)
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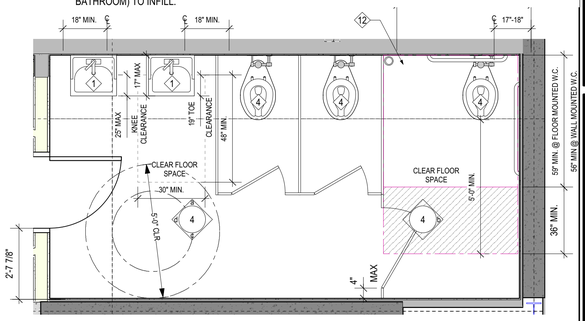
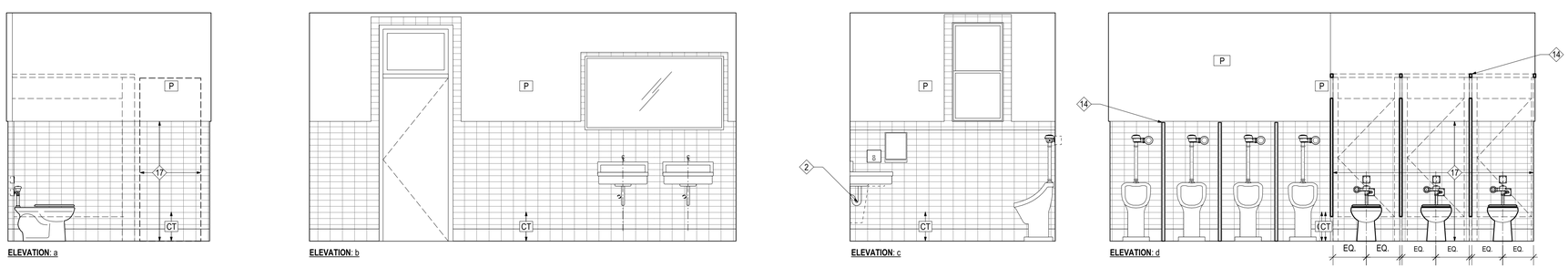


3 ENLARGED PLAN: WOMEN'S RESTROOM (ROOM #116)
Scale: 3/8" = 1'-0"



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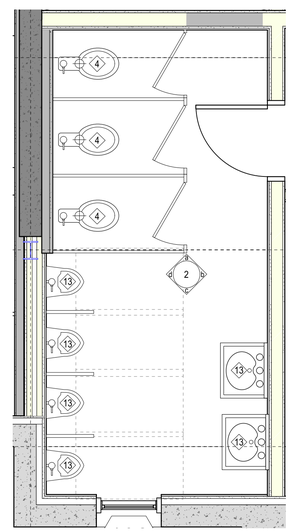

1 ENLARGED PLAN: MEN'S RESTROOM (ROOM #105)
Scale: 3/8" = 1'-0"

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Sheet Title: 1ST FLOOR BATHROOMS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-402

File name: Vets Hall_161107_CD.vwx
Time: 2:01:37 PM
Date: 11/10/16

KITCHEN KEY NOTES

FINISHES

P_N	NEW GYPSUM BOARD - PAINTED
P	EXISTING LATH & PLASTER - REPAINTED
FP_N	NEW FRP WALL PANEL
SS_N	NEW STAINLESS STEEL WALL PANEL
QT_N	QUARRY TILE FLOOR & 4" COVED BASE

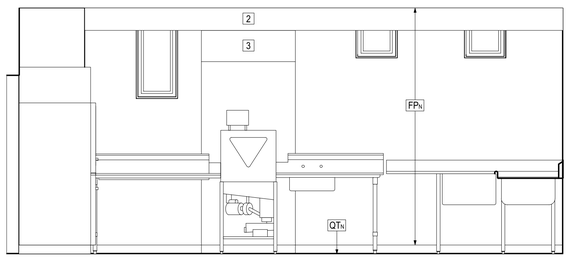
NOTES

1	EXTENT OF NEW CONSTRUCTION. PROTECT PLASTER DETAILING TO THE FURTHEST EXTENT FEASIBLE. IF NECESSARY TO REMOVE, TAKE CASTINGS/DRAWINGS OF DETAILING AND REPLACE IN KIND.
2	HVAC DUCTS. SEE MECHANICAL.
3	MECH HOOD. SEE MECHANICAL.

KITCHEN NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.

2. SEE A-603 FOOD SERVICE EQUIPMENT SCHEDULE FOR EQUIPMENT SPECIFICATIONS AND FOOD SAFETY REGULATIONS.



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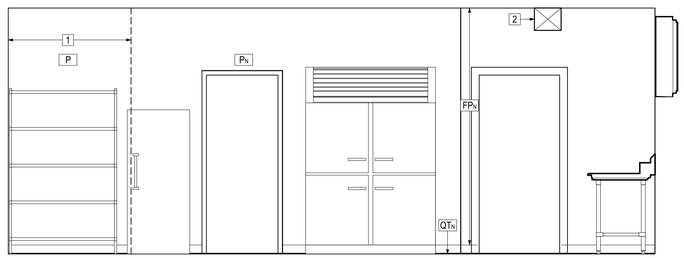

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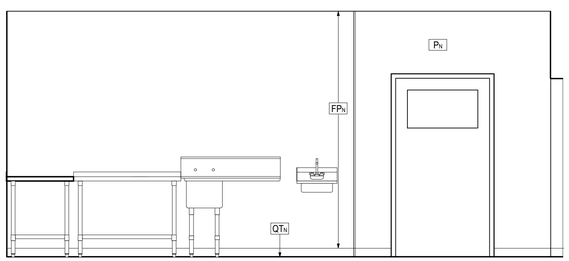

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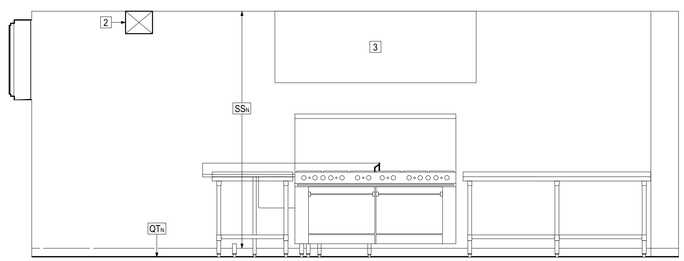

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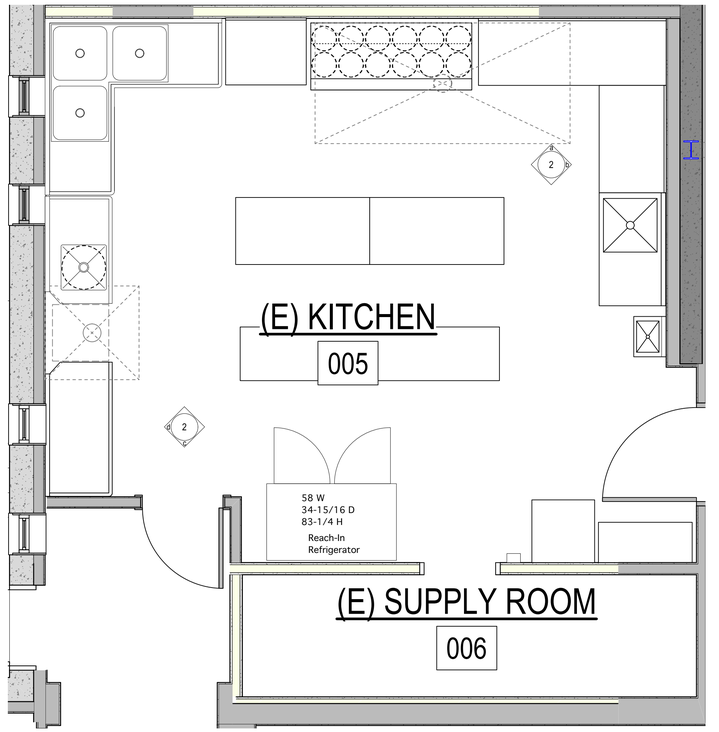

2 INTERIOR ELEVATION: KITCHEN (ROOM #005)
Scale: 3/8" = 1'-0"

1 ENLARGED PLAN: KITCHEN
Scale: 3/8" = 1'-0"

0 5 FT

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Sheet Title
KITCHEN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID
210502

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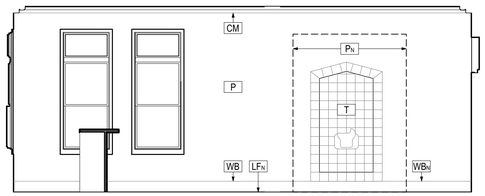
Date 11/10/16
Scale Sheet Scale
Sheet No.
A-403

Date: 11/10/16 Time: 2:51:27 PM File name: Vets Hall - 181107 -CD.wxx



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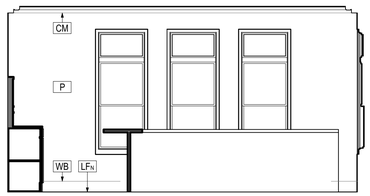

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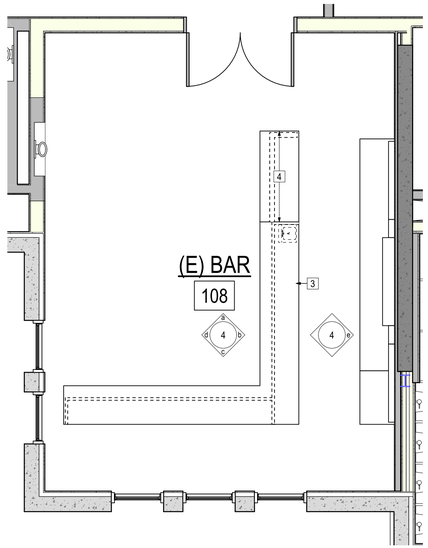
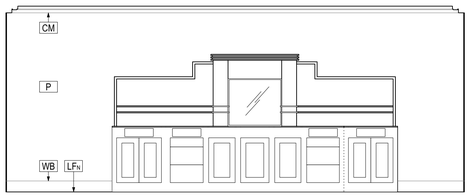


3 ENLARGED PLAN: BAR (ROOM #108)
Scale: 1/4" = 1'-0"

0 5 FT



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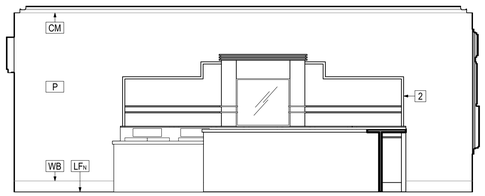

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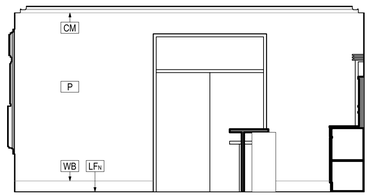


ELEVATION: a

4 INTERIOR ELEVATION: BAR (ROOM #108)
Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

- PN — NEW GYPSUM BOARD - PAINTED
- P — EXISTING LATH & PLASTER - REPAINTED
- CF — EXISTING CROWN MOLDING
- WB — EXISTING WOOD BASEBOARD
- WBN — NEW WOOD BASEBOARD TO MATCH EXISTING
- LFN — NEW LINOLEUM FLOORING
- CF — CONCRETE FLOOR
- T — EXISTING TILE RELOCATED FROM PREVIOUS DRINKING FOUNTAIN LOCATION

NOTES

1. NEW BAR MILLWORK
2. REUSE EXISTING BAR MILLWORK RELOCATED FROM BASEMENT BAR. REFURBISH MILLWORK. CONVERT REFRIGERATION PORTION TO CABINETS.
3. RECONFIGURE & RELOCATE EXISTING BAR MILLWORK TO ALLOW FOR CIRCULATION. SEE DEMOLITION PLAN.
4. 60" MIN. WIDE ACCESSIBLE BAR PER 8/A-506.

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.
2. SEE A-603 FOOD SERVICE EQUIPMENT SCHEDULE FOR EQUIPMENT SPECIFICATIONS AND FOOD SAFETY REGULATIONS.

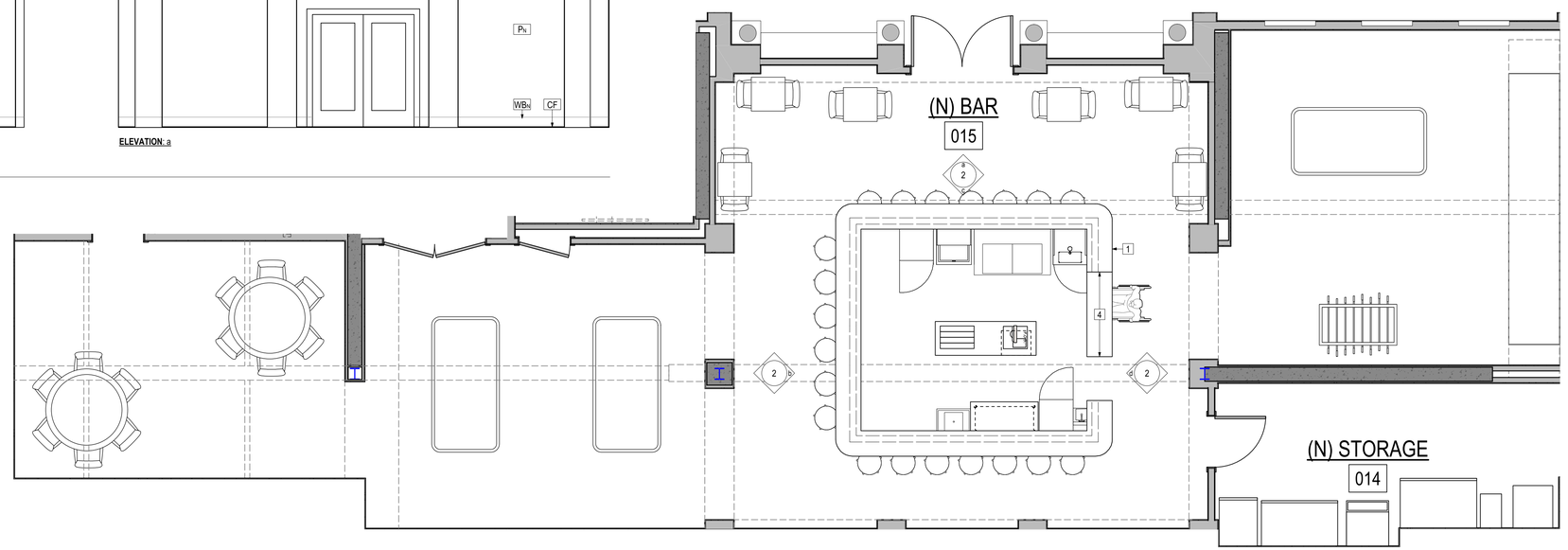
ELEVATION: d

ELEVATION: c

ELEVATION: b

ELEVATION: a

2 INTERIOR ELEVATION: BASEMENT BAR (ROOM #015)
Scale: 1/4" = 1'-0"



1 ENLARGED PLAN: BASEMENT BAR (ROOM #015)
Scale: 1/4" = 1'-0"

0 5 FT

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Sheet Title: BARS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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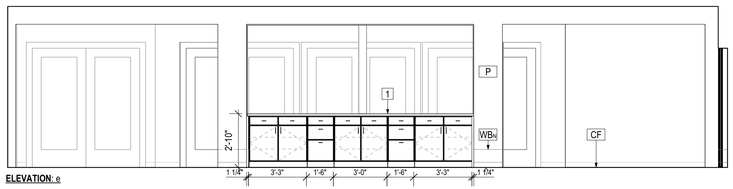

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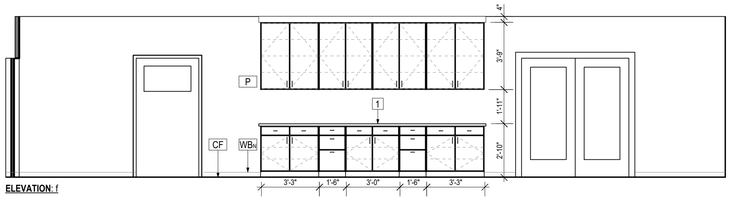

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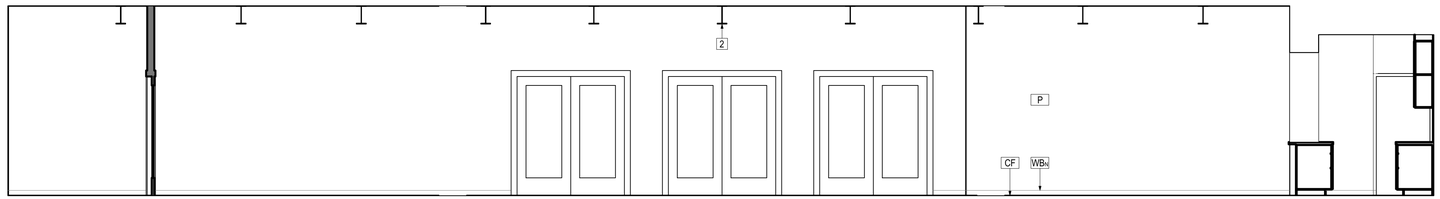

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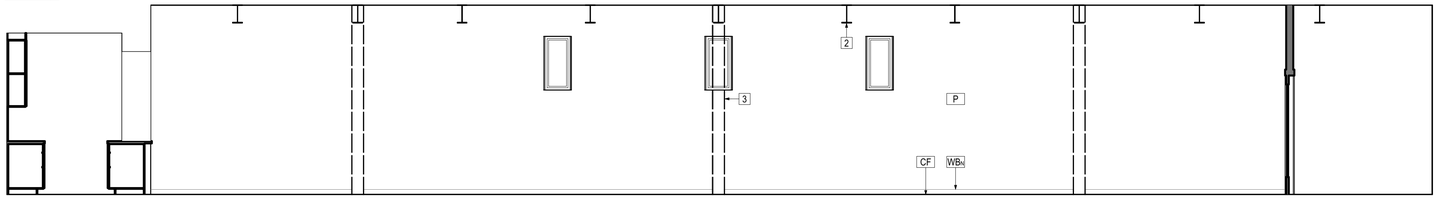

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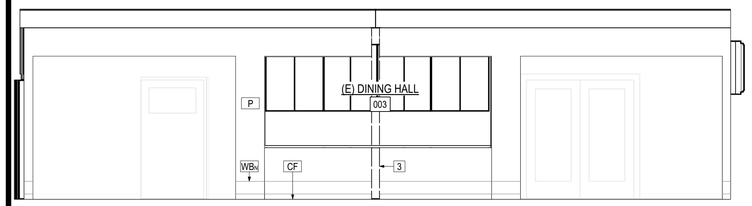

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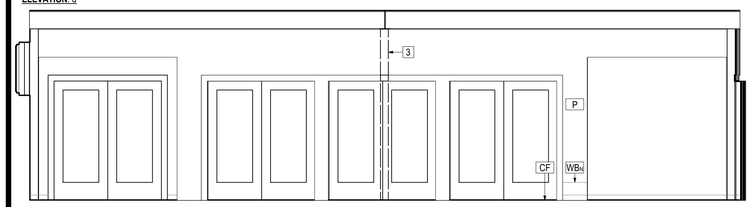
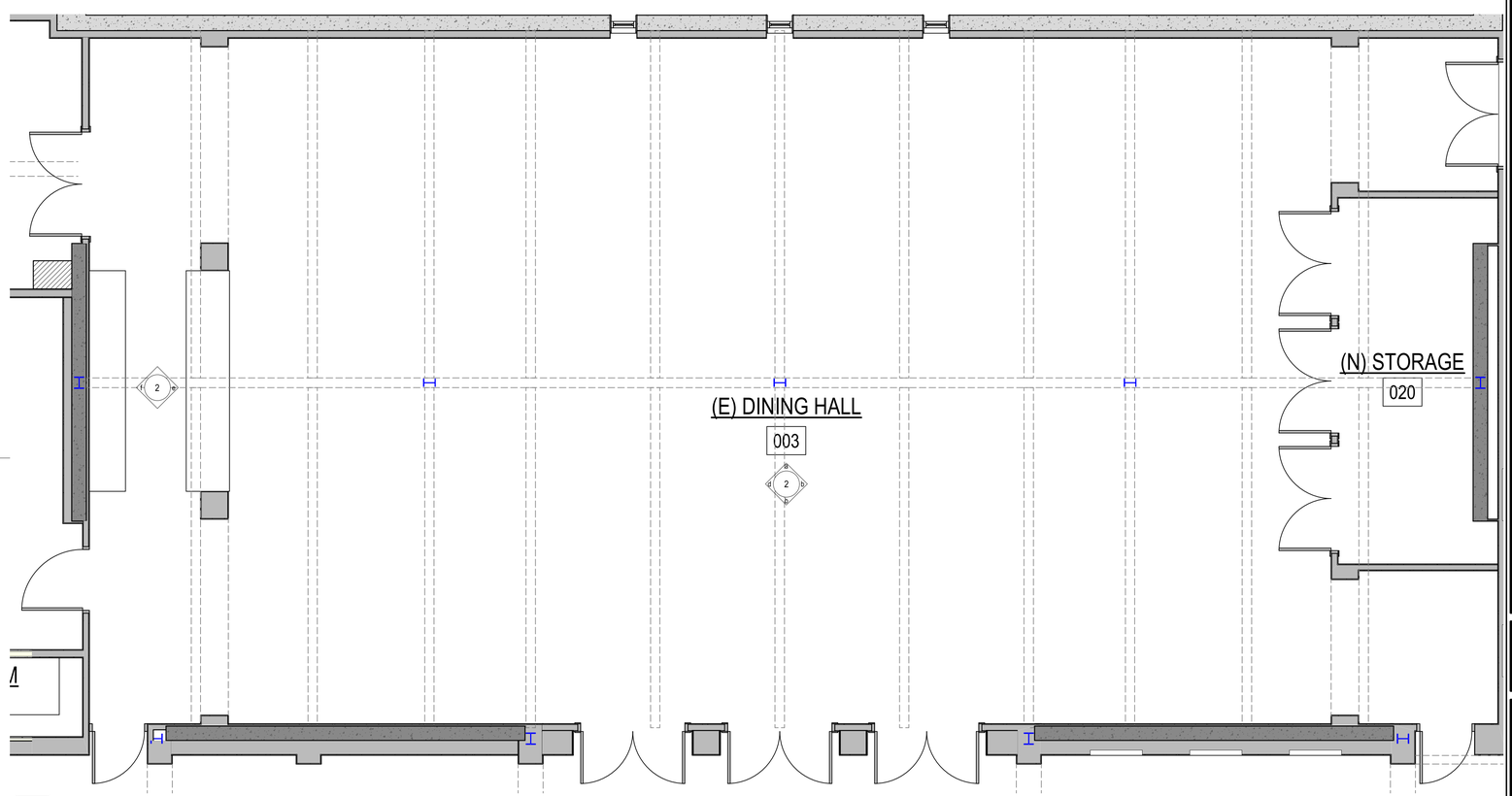


ELEVATION: b

2 INTERIOR ELEVATION: DINING HALL (ROOM #003)
Scale: 1/4" = 1'-0"



1 ENLARGED PLAN: DINING HALL (ROOM #003)
Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

P-N	NEW GYPSUM BOARD - PAINTED
WB-N	NEW WOOD BASEBOARD
CF	CONCRETE FLOOR

NOTES

1	NEW BUILT-IN WOOD CABINETS. PROVIDE SHOP DRAWINGS FOR APPROVAL BY OWNER PRIOR TO FABRICATION.
2	EXISTING STRUCTURAL STEEL BEAMS, TYP. PREP, PRIME & REPAINT.
3	EXISTING STRUCTURAL STEEL POSTS, TYP. PREP, PRIME & REPAINT.

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.

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Sheet Title: INTERIOR ELEVATIONS

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

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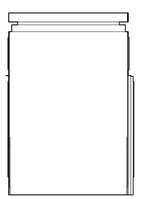

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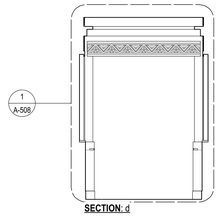

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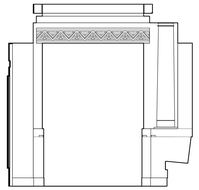

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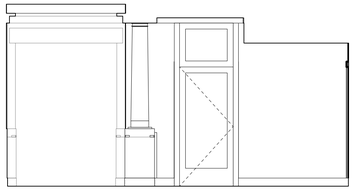

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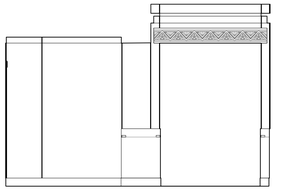
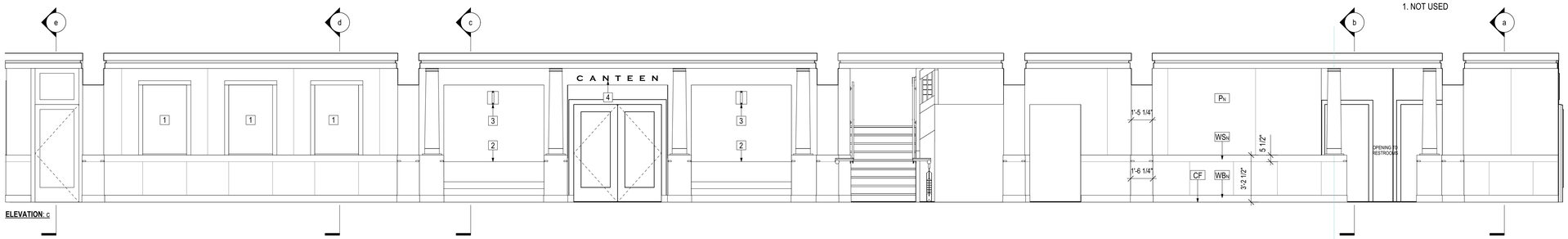


SECTION: a

3 HALL (ROOM #011) SECTIONS
Scale: 1/4" = 1'-0"



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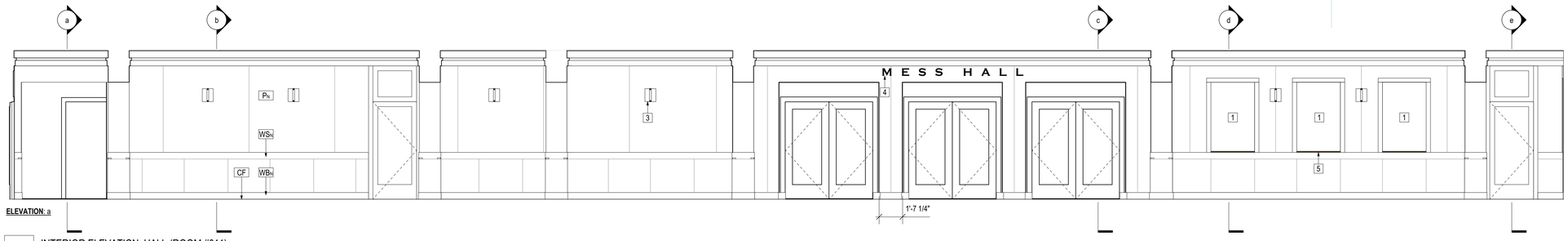

ELEVATION: a

2 INTERIOR ELEVATION: HALL (ROOM #011)
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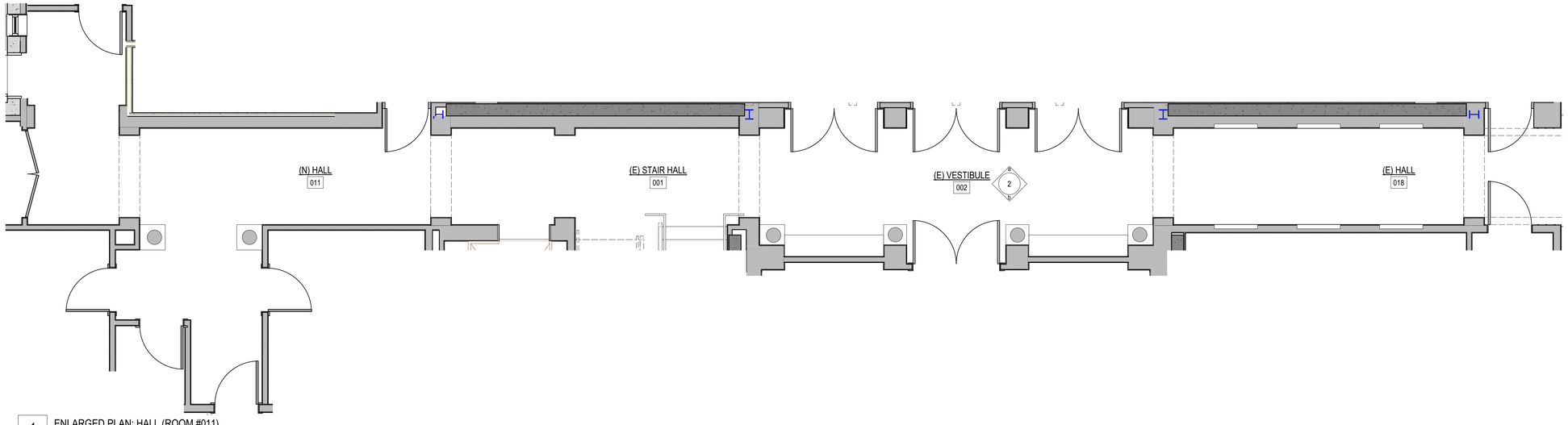

1 ENLARGED PLAN: HALL (ROOM #011)
Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

- PN — NEW GYPSUM BOARD - PAINTED
- WBN — NEW WOOD BASEBOARD
- CF — CONCRETE FLOOR
- CCN — NEW CONCRETE COLUMN
- WSN — NEW 1" DEEP KEENES CEMENT VEENER PLASTER WAINSCOT W/ SCRIBE LINES AS SHOWN. SEE DETAIL 4/A-507.

NOTES

1. NEW BUILT-IN NICHE w/ RECESSED LIGHTING @ PERIMETER PER DETAILS 17-19/A-502. SEE ELECTRICAL.
2. NEW BUILT-IN BENCH.
3. NEW LIGHT FIXTURES, TYP. SEE ELECTRICAL.
4. NEW 6" CAST METAL BRONZE LETTERING ABOVE ENTRY. V.I.F. ROOM NAME.
5. STONE SILL @ NICHE BASE, TYP. PER DETAIL 17/A-502.

INTERIOR ELEVATION NOTES

1. NOT USED

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Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

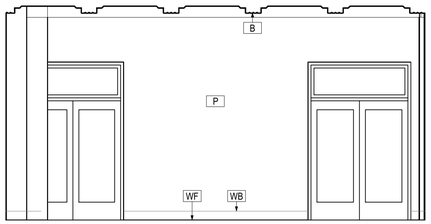
Project ID
210502

Sheet Title
INTERIOR ELEVATIONS

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.
A-406

Date: 11/18/16 Time: 2:31:37 PM File name: Vets Hall_061107_CD.vwx



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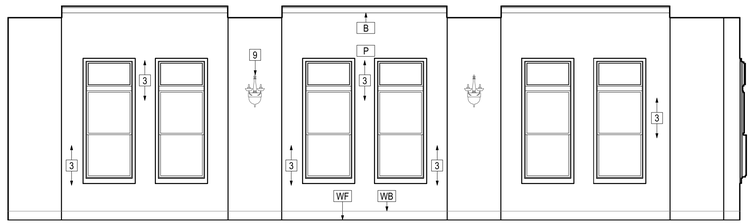

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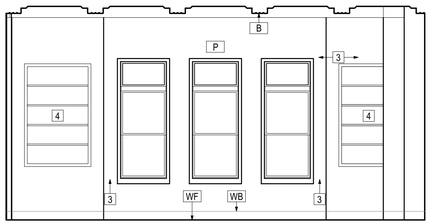

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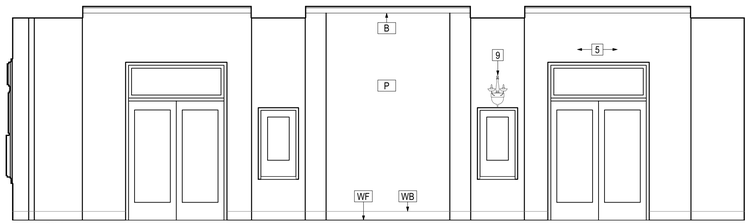
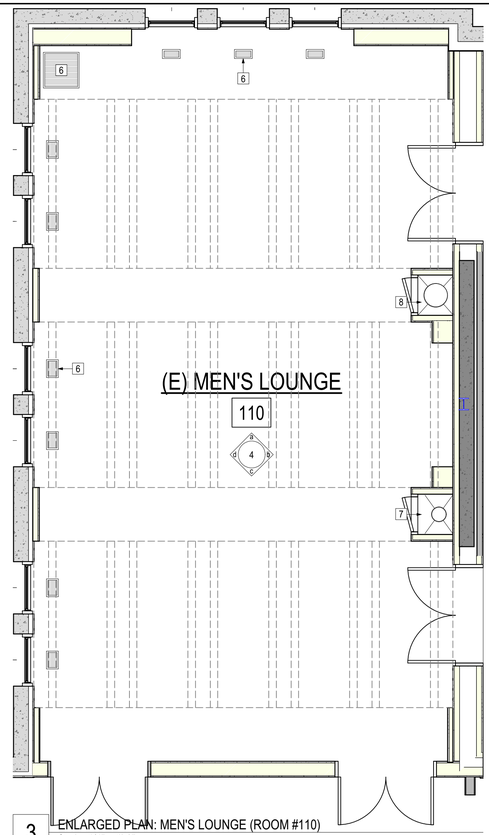


ELEVATION: b

4 INTERIOR ELEVATION: MEN'S LOUNGE (ROOM #110)
Scale: 1/4" = 1'-0"



3 ENLARGED PLAN: MEN'S LOUNGE (ROOM #110)
Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

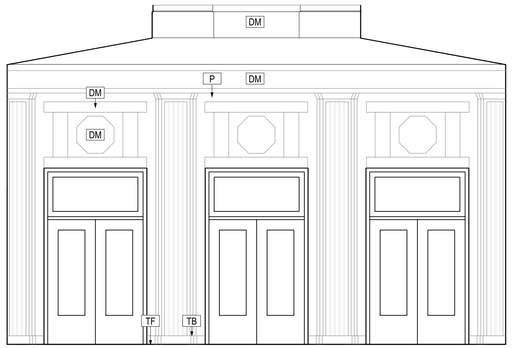
P_N	NEW GYPSUM BOARD - PAINTED
P	EXISTING LATH & PLASTER - REPAINTED
B	EXISTING WOOD FAUX BEAMS
WB	EXISTING WOOD BASEBOARD
TB	EXISTING TERRAZZO BASEBOARD
TF	EXISTING TERRAZZO FLOOR
WF	REFINISHED WOOD FLOOR
DM	EXISTING DECORATIVE MOLDING. CLEAN & RESTORE FINISHES ON ALL PLASTER DETAILING.
WP	EXISTING WOOD PANELING
WP_N	NEW WOOD PANELING

NOTES

1	NEW WOOD ADJUSTABLE SHELVING
2	REMOVE CLOCK. PATCH & REPAIR PLASTER MEDALLION TO MATCH EXISTING.
3	EXTERIOR CRACK REPAIR WILL REQUIRE WALL TO BE OPENED IN MULTIPLE AREAS. PROTECT BASEBOARDS & DETAILING TO THE FURTHEST EXTENT FEASIBLE. IF NECESSARY TO REMOVE, REPLACE IN KIND.
4	EXISTING WOOD SHELVING
5	REPAIR WATER DAMAGE
6	NEW MECHANICAL REGISTERS
7	NEW MECHANICAL CHASE TO USE EXISTING SHAFT TO BE UPGRADED TO 1HR. SEE MECHANICAL.
8	NEW MECHANICAL CHASE TO BE LOCATED IN EXISTING SHAFT. BRICKS TO BE REMOVED. SHAFT TO BE UPGRADED TO 1 HR. SEE MECHANICAL.
9	EXISTING LIGHT FIXTURES. SEE ELECTRICAL.

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.



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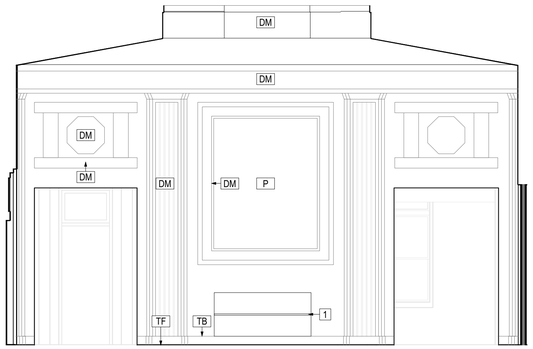

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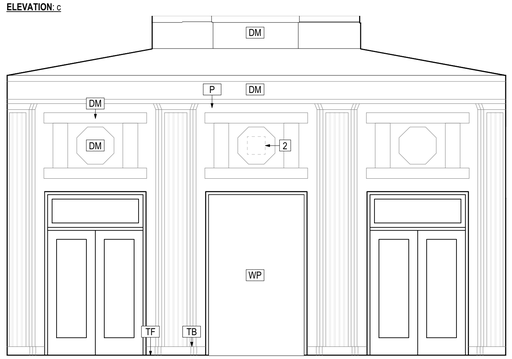

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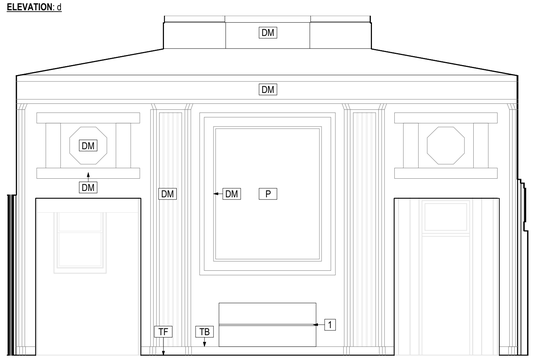
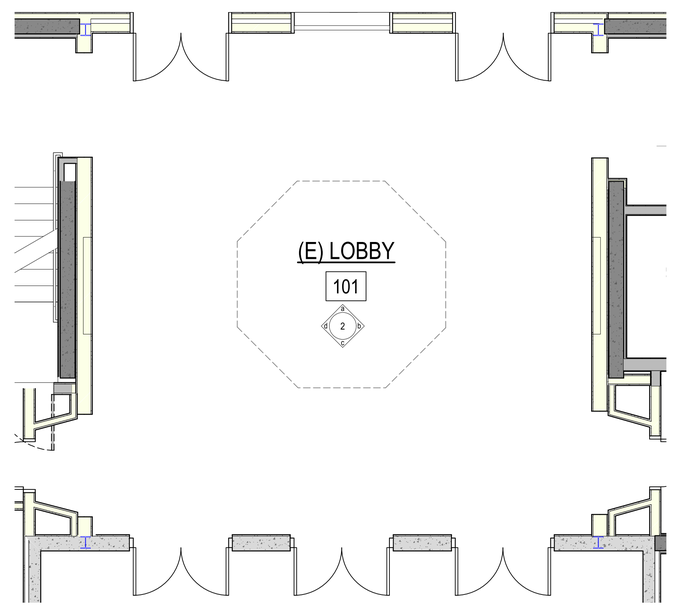


ELEVATION: b

2 INTERIOR ELEVATION: LOBBY (ROOM #101)
Scale: 1/4" = 1'-0"



1 ENLARGED PLAN: LOBBY (ROOM #101)
Scale: 1/4" = 1'-0"

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Sheet Title: INTERIOR ELEVATIONS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No	Date	Appr	Revision Notes

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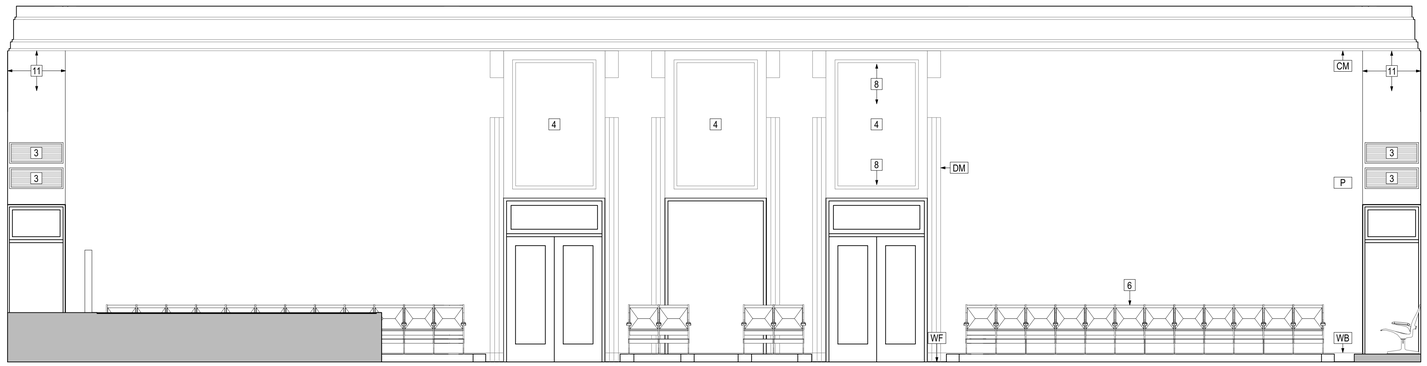
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-407

Date: 11/18/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx



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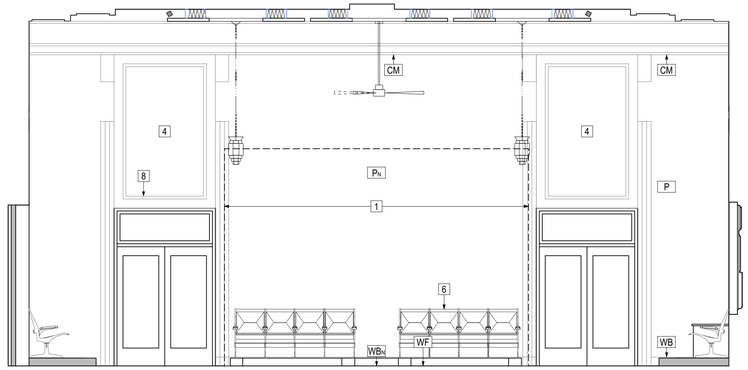

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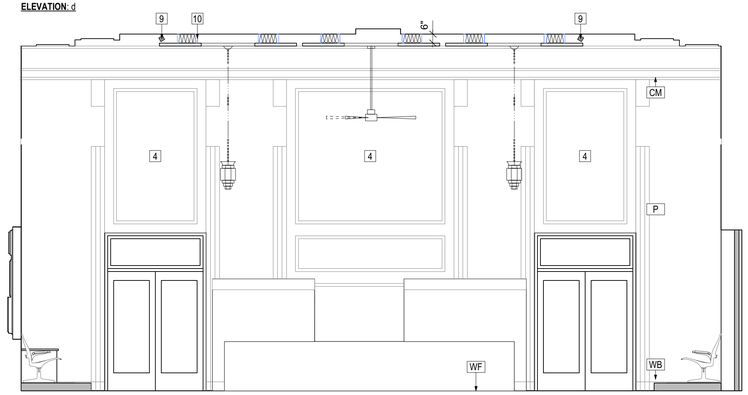
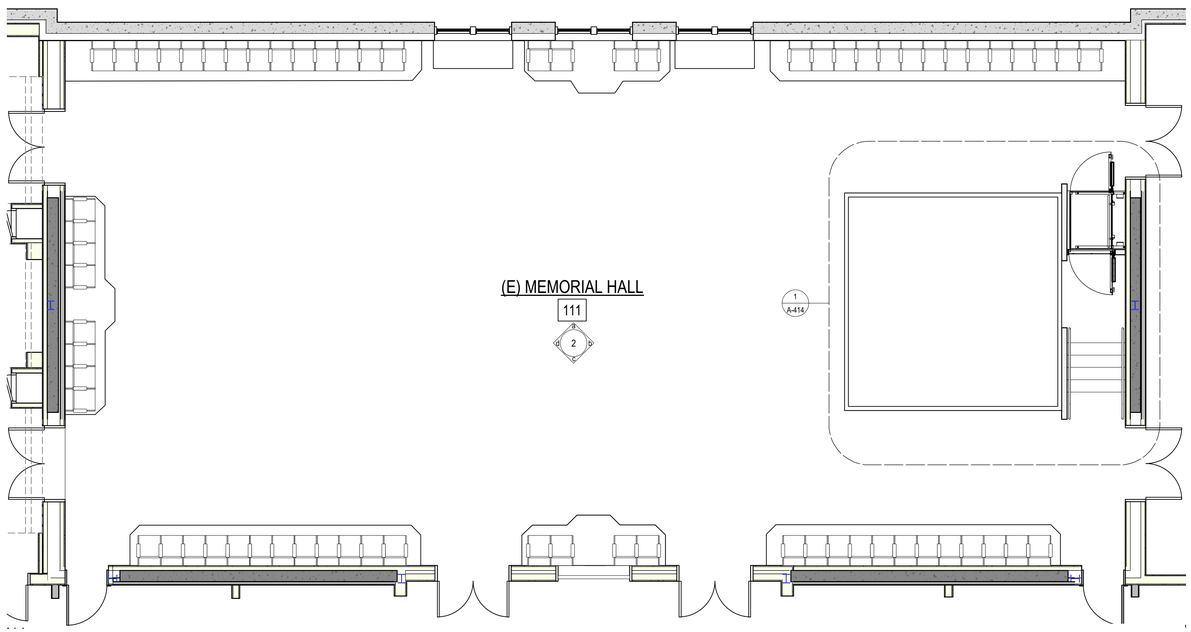


ELEVATION: b

2 INTERIOR ELEVATION: MEMORIAL HALL (ROOM #111)
Scale: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN: MEMORIAL HALL (ROOM #111)
Scale: 3/16" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

PN	NEW GYPSUM BOARD - PAINTED
P	EXISTING LATH & PLASTER - REPAINTED
CMN	NEW PAINTED CROWN MOLDING. TO MATCH EXISTING.
CM	EXISTING PAINTED CROWN MOLDING
WBN	NEW WOOD BASE TRIM. TO MATCH EXISTING
WB	EXISTING WOOD BASEBOARD
WF	REFINISHED WOOD FLOOR
DM	EXISTING DECORATIVE MOLDING

NOTES

1	EXTENT OF NEW CONSTRUCTION. PROTECT PLASTER DETAILING TO THE FURTHEST EXTENT FEASIBLE. IF NECESSARY TO REMOVE, TAKE CASTINGS/DRAWINGS OF DETAILING AND REPLACE IN KIND.
2	EXTERIOR CRACK REPAIR WILL REQUIRE WALL TO BE OPENED IN MULTIPLE AREAS. PROTECT PLASTER DETAILING TO THE FURTHEST EXTENT FEASIBLE. IF NECESSARY TO REMOVE, TAKE CASTINGS/DRAWINGS OF DETAILING AND REPLACE IN KIND.
3	NEW MECHANICAL REGISTERS
4	REMOVE EXISTING 12x12 ACOUSTICAL TILES IN PANELS ABOVE DOORS. REPLACE w/ NEW FABRIC COVERED ACOUSTIC PANEL TO MATCH NEW CEILING PANELS.
5	RELOCATE EXISTING WOOD STAGE TO ALLOW FOR NEW CHAIR LIFT AND STAIR.
6	PROTECT EXISTING FIXED CHAIRS DURING CONSTRUCTION, TYP. REPAIR ANY DAMAGE OR REPLACE IN KIND.
7	REPLACE WOOD BUILT-IN TO COVER HVAC DUCT. COORDINATE W/ MECHANICAL.
8	REPAIR WATER DAMAGE
9	ADJUSTABLE LED LIGHTS, FOR LIGHTING UPPER WALLS, RECESSED IN GAP BETWEEN ACOUSTICAL PANEL & CEILING, TYP. SEE ELECTRICAL PLANS.
10	LG METAL STUD ATTACHMENT. VERIFY ACOUSTICAL PANEL ATTACHMENT SYSTEM WITH MANUFACTURER.
11	NEW 4" RECESS IN WALL

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.

2. PROVIDE WHEELCHAIR SPACES AS NEEDED & COMPLYING WITH CBC 11B-221.2.

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Sheet Title: INTERIOR ELEVATIONS

Project Title:
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- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

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Date: 11/10/16
Scale: Sheet Scale
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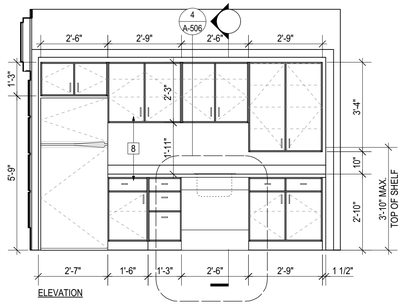
Date: 11/18/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx



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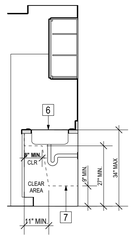
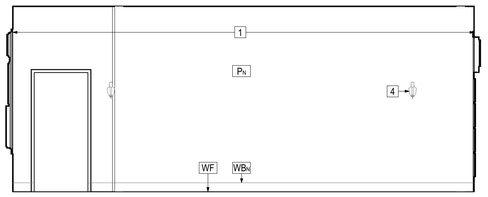


SECTION

5 INTERIOR ELEVATION: KITCHENETTE (ROOM #114)

Scale: 3/8" = 1'-0"



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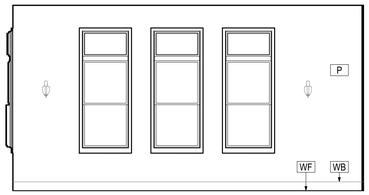

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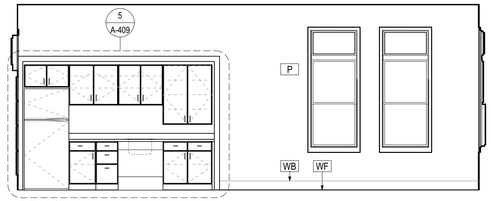

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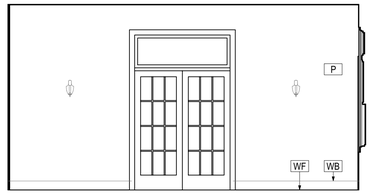
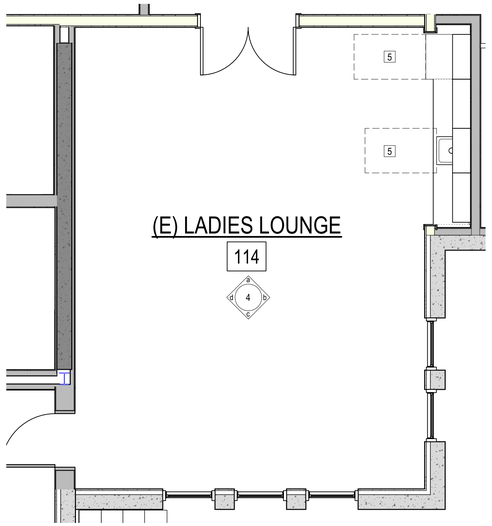


ELEVATION: a

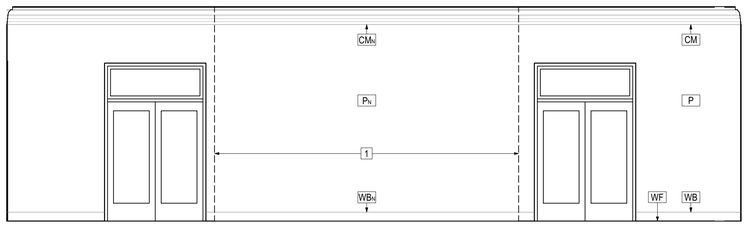
4 INTERIOR ELEVATION: LADIES LOUNGE (ROOM #114)

Scale: 1/4" = 1'-0"



3 ENLARGED FLOOR PLAN: LADIES LOUNGE (ROOM #114)

Scale: 1/4" = 1'-0"



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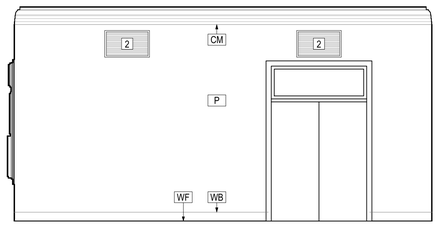

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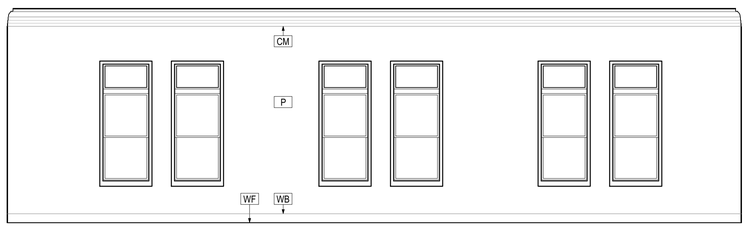

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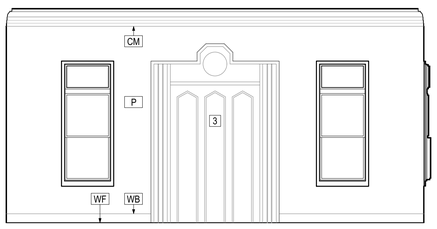

ELEVATION: a

2 INTERIOR ELEVATION: MEMORIAL HALL (ROOM #111)

Scale: 1/4" = 1'-0"

1 ENLARGED FLOOR PLAN: MEETING ROOM (ROOM #112)

Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

PN	NEW GYPSUM BOARD - PAINTED
P	EXISTING LATH & PLASTER - REPAINTED
CMN	NEW PAINTED CROWN MOLDING. TO MATCH EXISTING.
CM	EXISTING PAINTED CROWN MOLDING
WBN	NEW WOOD BASE TRIM. TO MATCH EXISTING
WB	EXISTING WOOD BASEBOARD
WF	REFINISHED WOOD FLOOR

NOTES

1	EXTENT OF NEW CONSTRUCTION
2	NEW MECHANICAL REGISTERS. SEE MECHANICAL.
3	PROTECT EXISTING MILLWORK PANELING DURING CONSTRUCTION. REPAIR ANY DAMAGE.
4	EXISTING WALL SCONCES, TYP. SEE ELECTRICAL.
5	30"x48" CLEAR FLOOR SPACE @ APPLIANCES
6	6 1/2" MAX SINK DEPTH
7	INSULATE DRAIN & HOT WATER PIPES, NO SHARP OR ABRASIVE ELEMENTS, TYP.
8	NEW BUILT-IN WOOD CABINETS. PROVIDE SHOP DRAWINGS FOR APPROVAL BY OWNER PRIOR TO FABRICATION.

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.

2. SEE A-603 FOOD SERVICE EQUIPMENT SCHEDULE FOR EQUIPMENT SPECIFICATIONS AND FOOD SAFETY REGULATIONS.

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Scale Sheet Scale
Sheet No. A-409

Date: 11/10/16 Time: 2:01:37 PM File name: Veg Hall_181107_r2D.vwx

INTERIOR ELEVATION KEY NOTES

FINISHES

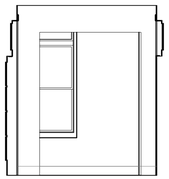
- PN — NEW GYPSUM BOARD - PAINTED
- P — EXISTING LATH & PLASTER - REPAINTED
- WBN — NEW WOOD BASE TRIM. TO MATCH EXISTING
- WB — EXISTING WOOD BASEBOARD
- LFN — NEW LINOLEUM FLOORING TO REPLACE EXISTING
- TN — NEW TILE
- T — EXISTING TILE RELOCATED FROM PREVIOUS DRINKING FOUNTAIN LOCATION

NOTES

1. EXTENT OF NEW CONSTRUCTION

INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.



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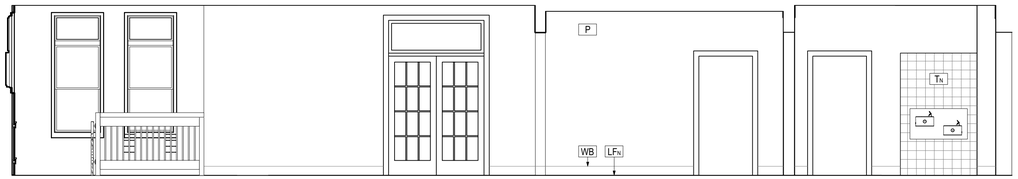

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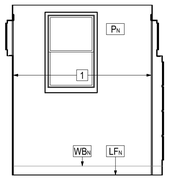
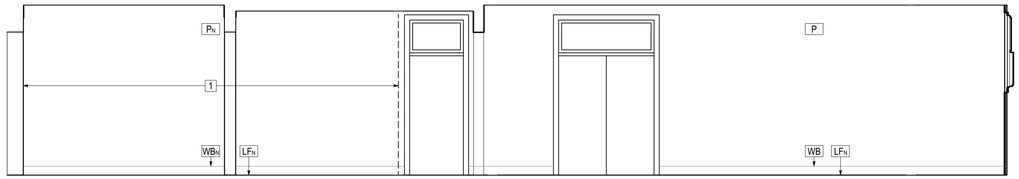
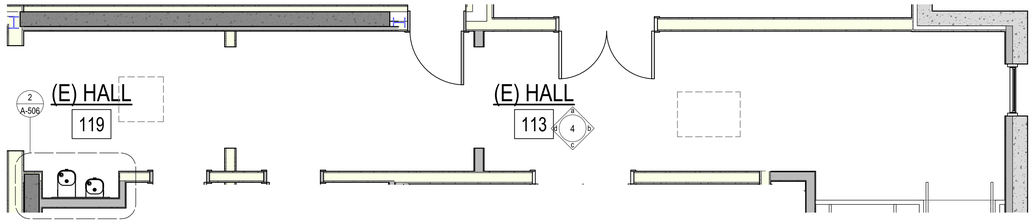


ELEVATION: b

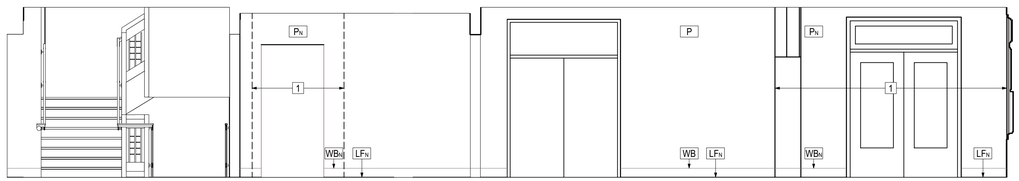


ELEVATION: a

4 INTERIOR ELEVATION: HALLS (ROOM #119 & 113)
Scale: 1/4" = 1'-0"



3 ENLARGED FLOOR PLAN: HALLS (ROOMS #119 & 113)
Scale: 1/4" = 1'-0"



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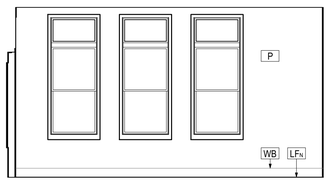
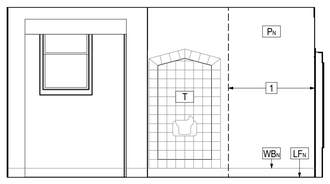
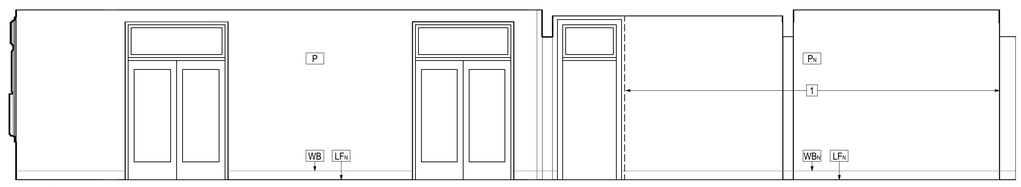


ELEVATION: d

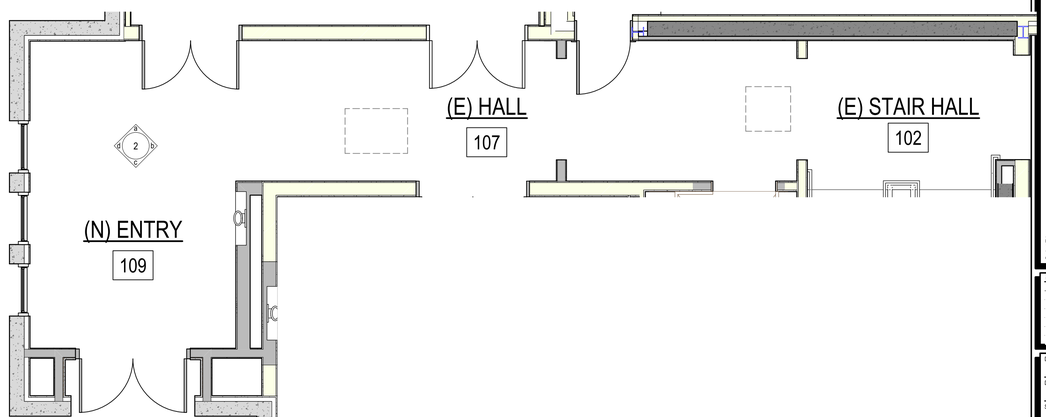


ELEVATION: b



ELEVATION: a

2 INTERIOR ELEVATION: ENTRY & HALL (ROOM #109 & 107)
Scale: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN: ENTRY & HALL (ROOMS #109 & 107)
Scale: 1/4" = 1'-0"

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Sheet Title: INTERIOR ELEVATIONS

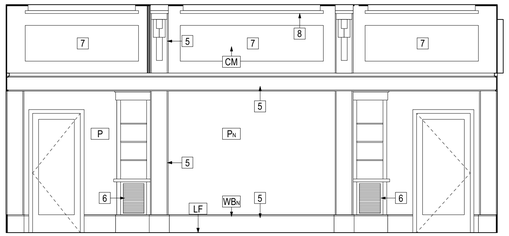
Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 006-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-410

Date: 11/10/16 Time: 2:51:27 PM File name: Vets Hall - 161107 -2D.vwx



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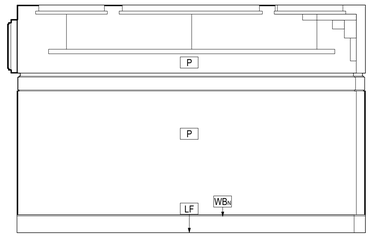

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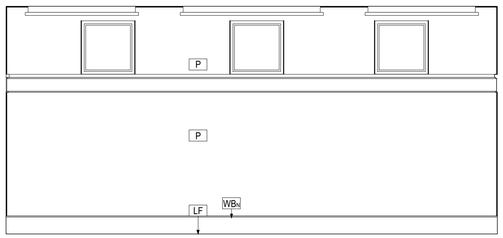
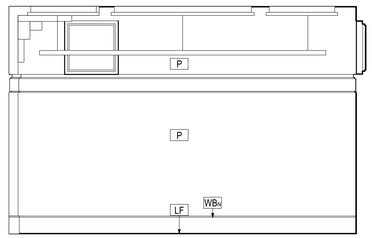
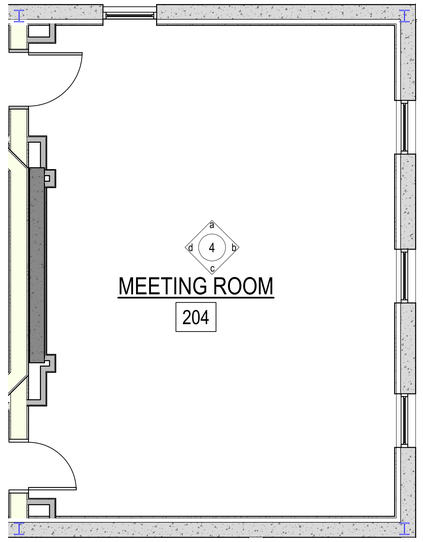


ELEVATION: b

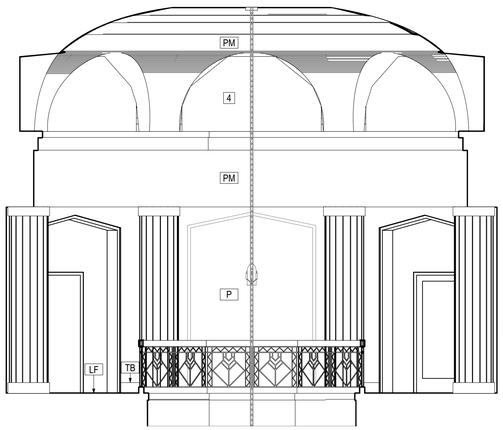


ELEVATION: a

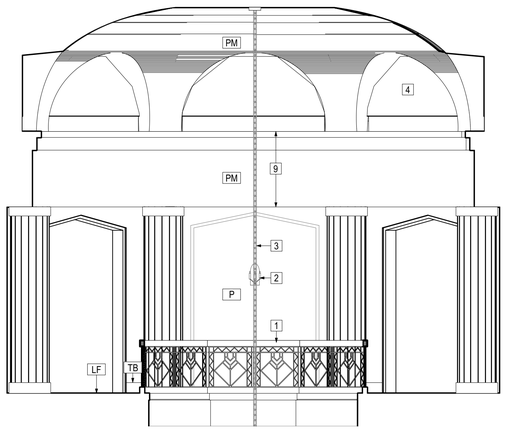
4 INTERIOR ELEVATION: MEETING ROOM (ROOM #204)
Scale: 1/4" = 1'-0"



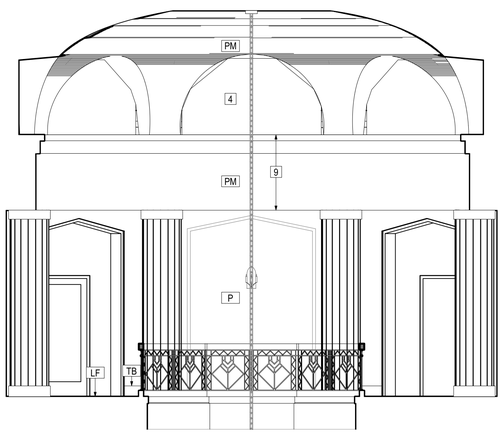
3 ENLARGED PLAN: MEETING ROOM (ROOM #204)
Scale: 1/4" = 1'-0"



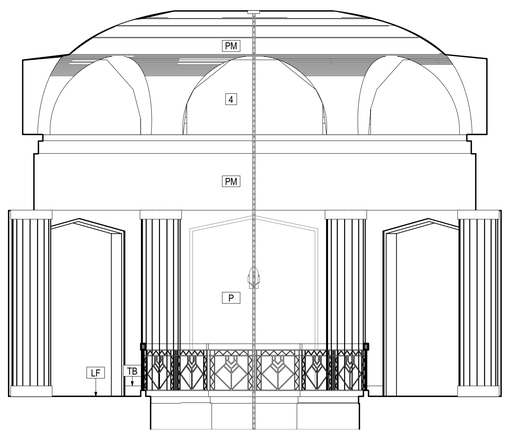
ELEVATION: d



ELEVATION: c



ELEVATION: b



ELEVATION: a

2 INTERIOR ELEVATION: ATRIUM (ROOM #203)
Scale: 1/4" = 1'-0"

INTERIOR ELEVATION KEY NOTES

FINISHES

- PN — NEW GYPSUM BOARD - PAINTED
- P — EXISTING LATH & PLASTER - REPAINTED
- PM — EXISTING PAINTED PLASTER MOLDING
- TB — EXISTING TERRAZZO BASEBOARD REMOVED & REINSTALLED FOR NEW STRUCTURAL FLOOR SHEATHING. REPLACE ANY DAMAGED BASEBOARDS.
- WB — NEW WOOD BASEBOARD
- LF — NEW LINOLEUM FLOORING

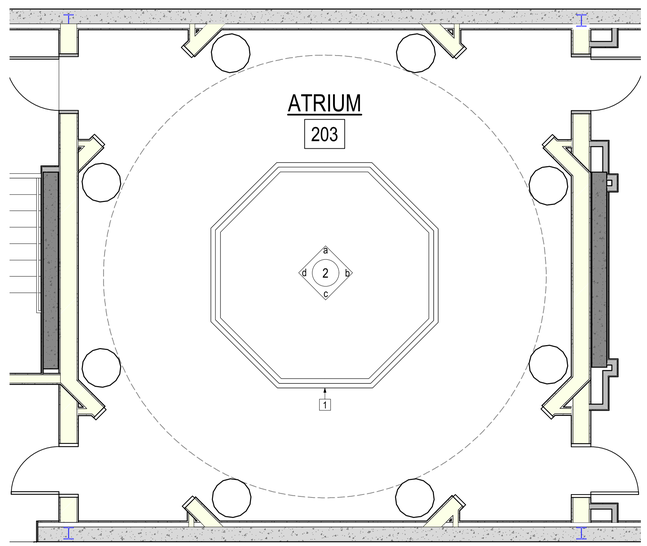
NOTES

1. REMOVE CLEAN & REPAINT (E) RAILING
2. (E) WALL SCONCE, TYP. SEE ELECTRICAL DRAWINGS.
3. (E) PENDANT. SEE ELECTRICAL DRAWINGS.
4. CLEAN, RESTORE AND REFINISH PAINTINGS IN RECESSES & @ PLASTER DETAILING
5. BUILT-UP WOOD TRIM, BASE & BRACKETS, TYP.
6. WOOD 14X20 RETURN AIR LOUVER BUILT INTO WOOD CABINET.
7. 2" THICK FRABRIC COVERED MINERAL FIBER ACOUSTICAL PANELS. FASTEN TO WALL W/ Z-CLIPS, TYP.
8. 2" THICK FABRIC COVERED MINERAL FIBER ACOUSTICAL PANELS. SUSPENDED W/ 4" SPACE BTWN NEW CEILING & BACK SIDE OF PANELS, TYP. SEE REFLECTED CEILING PLAN.
9. CLEAN, RESTORE & REFINISH DECORATIVE PLASTER, TYP.

ATRIUM DECORATIVE PLASTER

INTERIOR ELEVATION NOTES

1. REPAIR PLASTER DOME'S WATER DAMAGE & ANY OTHER DAMAGED PLASTER & TRIM.
2. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.



1 ENLARGED PLAN: ATRIUM (ROOM #203)
Scale: 1/4" = 1'-0"

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Sheet Title: INTERIOR ELEVATIONS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT - 1018 H ST. | EUREKA, CA | 95501 APN: 005-023-002

Project ID: 210502

No	Date	Appr	Revision Notes

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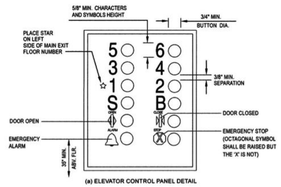
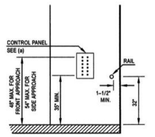
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-411

Date: 11/10/16 Time: 2:01:37 PM File name: Vets Hall_151107_CD.vwx



(a) ELEVATOR CONTROL PANEL DETAIL

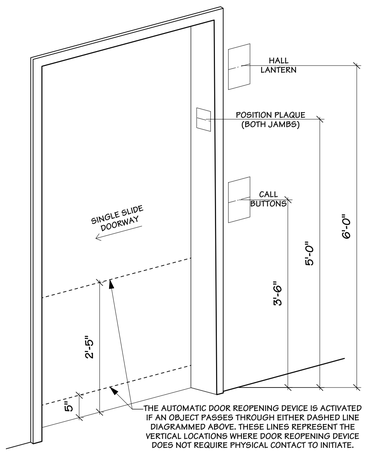


(b) MAXIMUM INSTALLATION HEIGHTS ABOVE CAB FLOOR

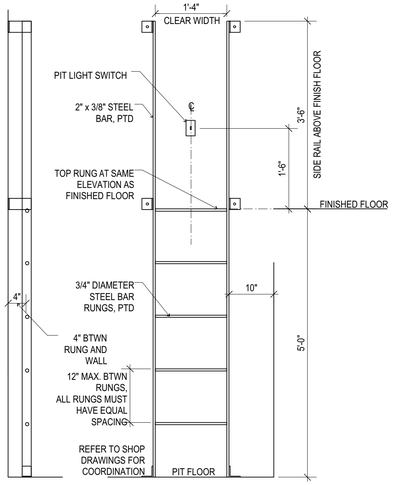
THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

FIGURE 11B-40B—ELEVATOR CONTROL PANEL

7 **CONTROL PANEL & RAIL REQURIEMENTS (DIAGRAM)**
Scale: NTS



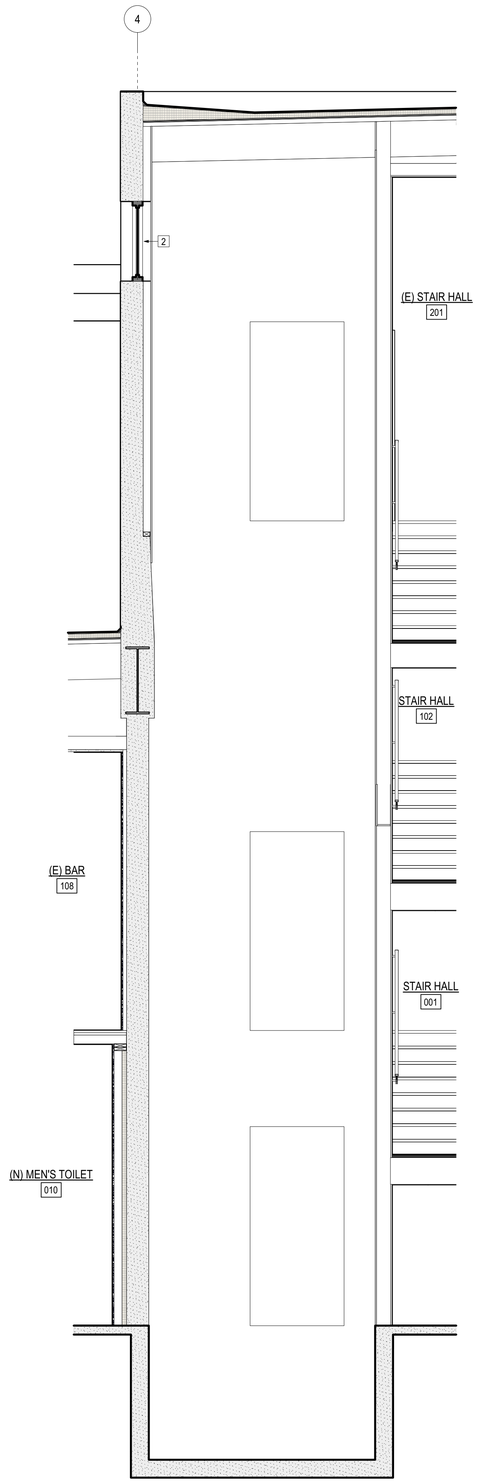
6 **ELEVATOR FIXTURE HEIGHTS**
Scale: NTS



SIDE VIEW FRONT VIEW

*NOTE: DRAWINGS FOR REFERENCE. VERIFY MANUFACTURER REQUIREMENTS.

5 **ELEVATOR PIT LADDER**
Scale: 3/4" = 1'-0"



5 SECTION
Scale: 3/8" = 1'-0"

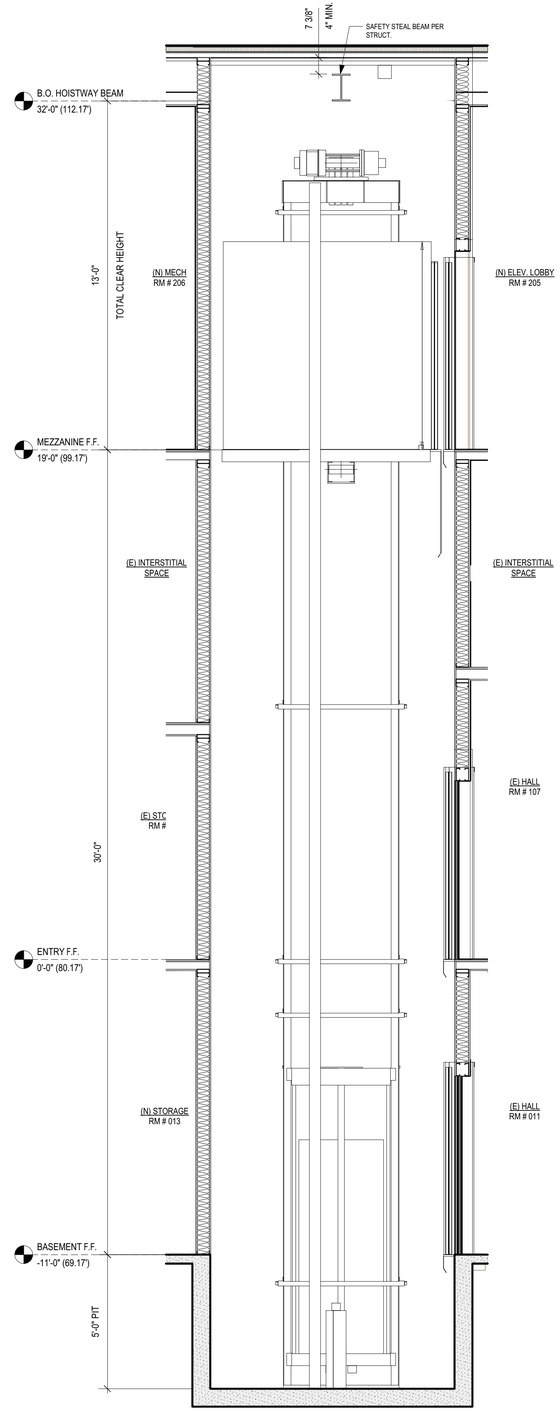
INTERIOR ELEVATION NOTES

1. ELEVATOR BASIS OF DESIGN: OTIS G2S 4000H-EL OR APPROVED EQUAL

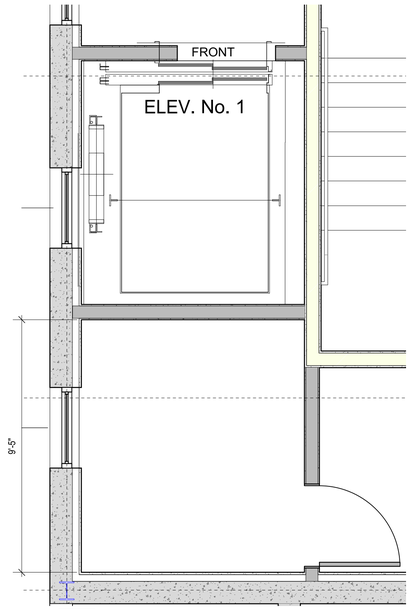
INTERIOR ELEVATION KEY NOTES

NOTES

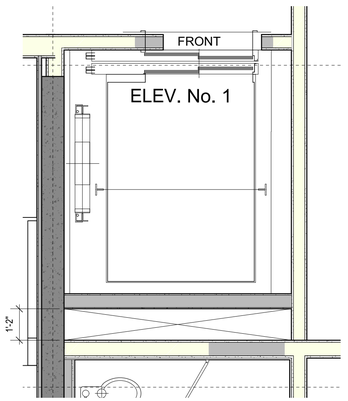
1 COVER WINDOW IN ELEVATOR SHAFT



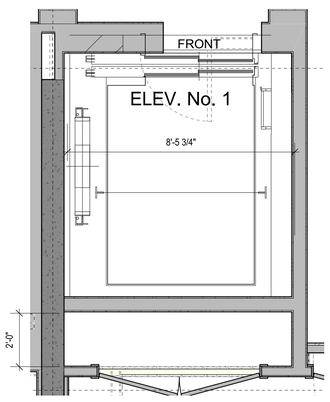
4 SECTION: ELEVATOR HOISTWAY
Scale: 3/8" = 1'-0"



3 MEZZANINE ELEVATOR PLAN
Scale: 3/8" = 1'-0"



2 FIRST FLOOR ELEVATOR PLAN
Scale: 3/8" = 1'-0"



1 BASEMENT ELEVATOR PLAN
Scale: 3/8" = 1'-0"

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Sheet Title
ELEVATOR

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. A-412

Date: 11/18/16 Time: 2:31:37 PM File name: Vets Hall - 161107_CD.vwx

INTERIOR ELEVATION KEY NOTES

FINISHES

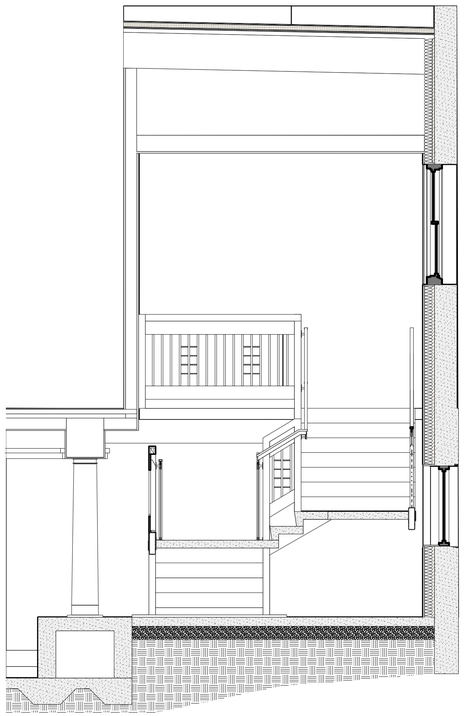
- PN — NEW GYPSUM BOARD - PAINTED
- WB — EXISTING WOOD BASEBOARD
- WBN — NEW WOOD BASEBOARD
- LFN — NEW LINOLEUM FLOORING
- CF — NEW CONCRETE FLOOR

NOTES

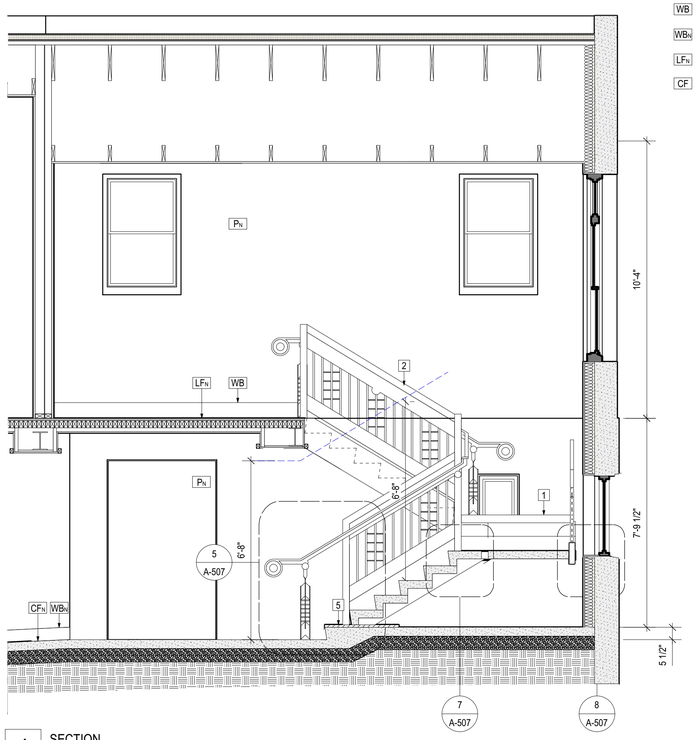
1. (N) STEEL & TERRAZZO STAIR.
2. (N) BRONZE GUARDRAIL AND HANDRAIL.
3. (N) STEEL POSTS PER STRUCTURAL, TYP.
4. (N) CUSTOM COLUMNS PER 2/A-501. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING & INSTALLATION.
5. 1 1/8" STONE SLAB, SIM. TO COLUMN BASE.

INTERIOR ELEVATION NOTES

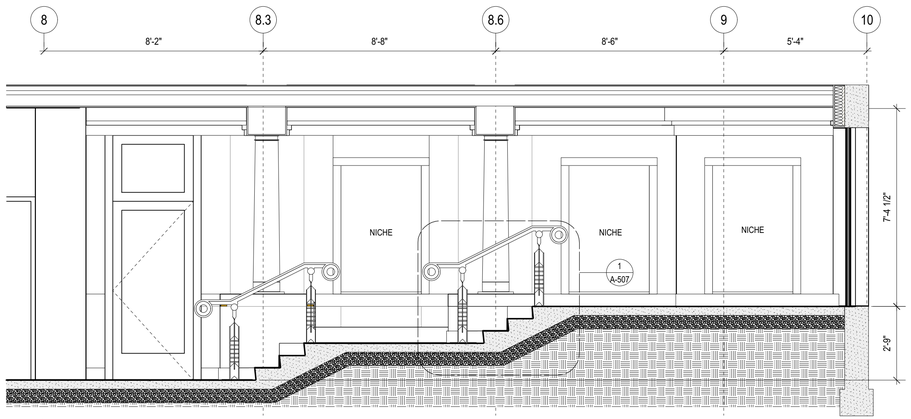
1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.
2. SEE A-105 FOR FINISH SCHEDULE.
3. SEE 7/A-506 FOR VERTICAL CLEARANCE REQUIREMENTS AT STAIRS



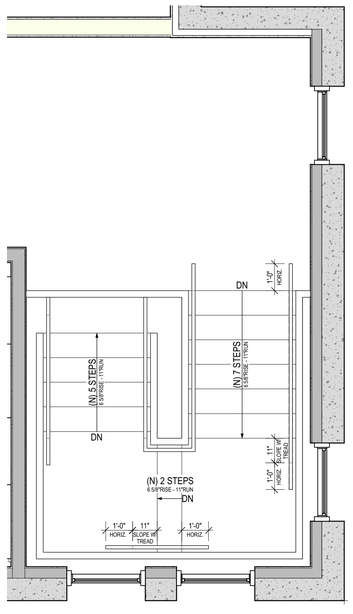
5 SECTION
Scale: 3/8" = 1'-0"



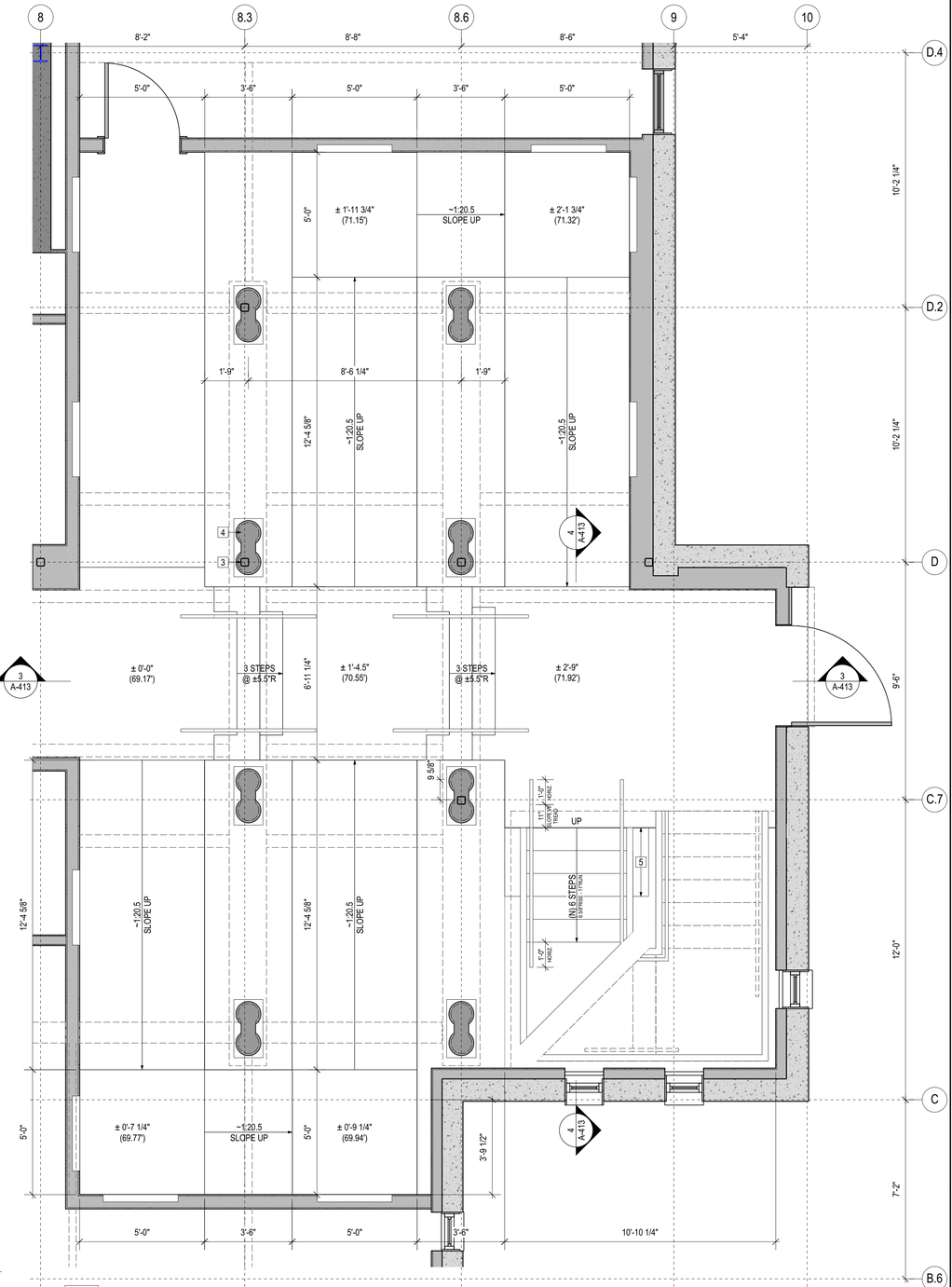
4 SECTION
Scale: 3/8" = 1'-0"



3 SECTION
Scale: 3/8" = 1'-0"



2 NORTH STAIR: FIRST FLOOR PLAN
Scale: 3/8" = 1'-0"



1 NORTH STAIR: BASEMENT FLOOR PLAN
Scale: 3/8" = 1'-0"

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Sheet Title: NORTH STAIR & SLOPED WALKWAY

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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Date: 11/10/16
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Sheet No.: A-413

Date: 11/10/16 Time: 2:51:37 PM File name: Vets Hall_1610?_CD.vwx

INTERIOR ELEVATION KEY NOTES

FINISHES

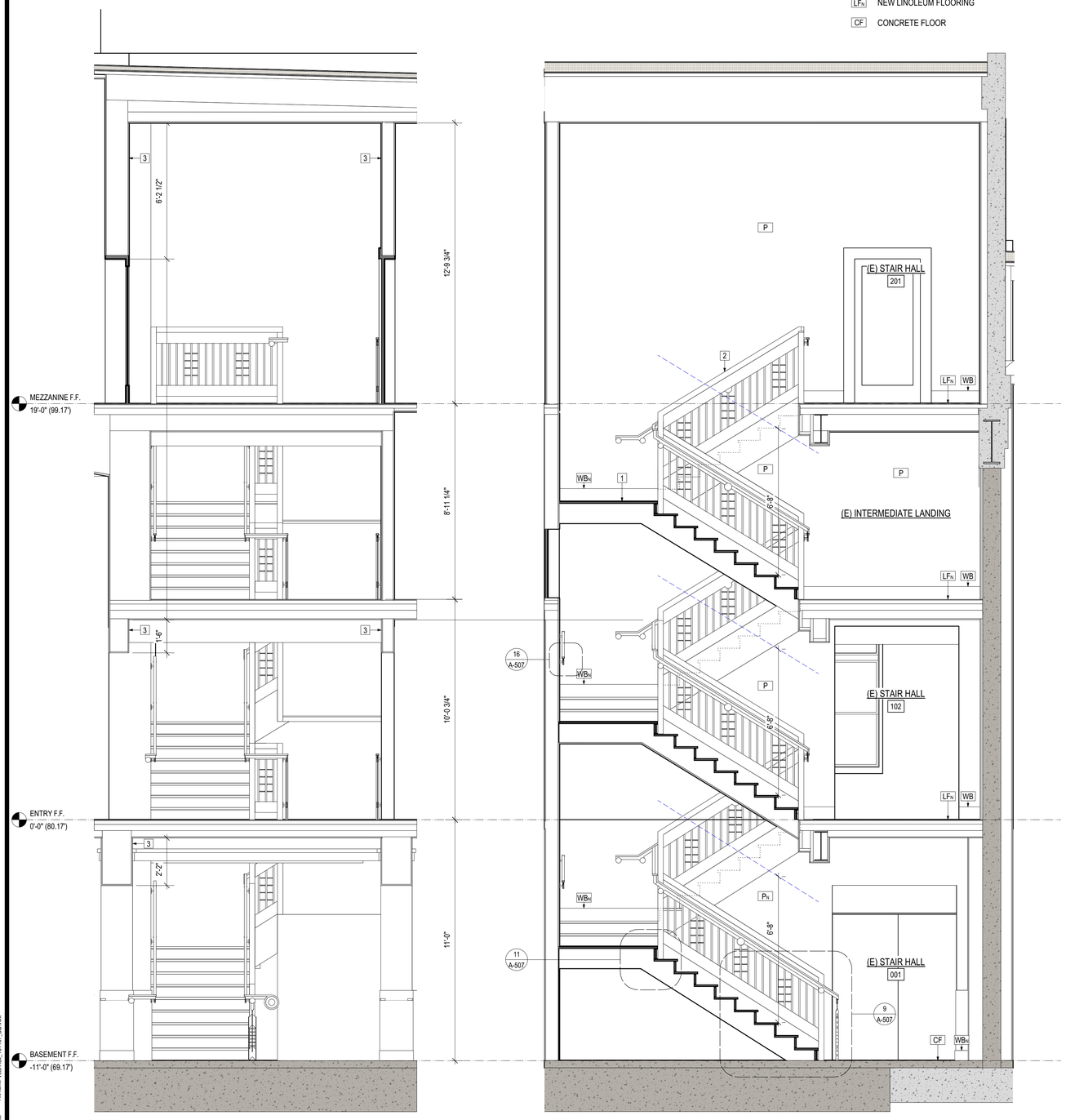
- P$_N$ NEW GYPSUM BOARD - PAINTED
- P EXISTING LATH & PLASTER - REPAINTED
- WB EXISTING WOOD BASEBOARD
- WB$_N$ NEW WOOD BASEBOARD
- LF$_N$ NEW LINOLEUM FLOORING
- CF CONCRETE FLOOR

NOTES

1. (N) WOOD STAIR TO REPLACE EXISTING. SEE DEMO PLAN.
2. (N) BRONZE GUARDRAIL AND HANDRAIL TO REPLACE EXISTING. SEE DEMO PLAN.
3. (N) 18" MIN. DRAFT STOPS OF NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIAL

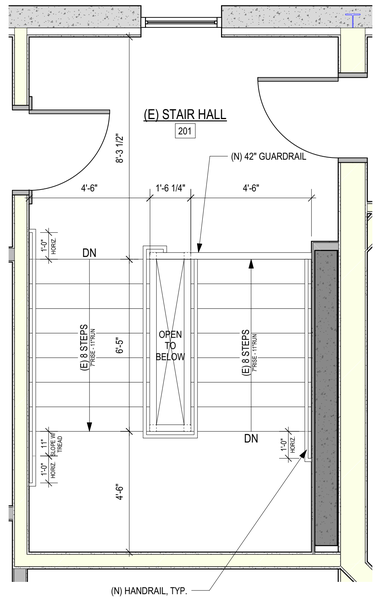
INTERIOR ELEVATION NOTES

1. SEE STRUCTURAL WALL ELEVATIONS & S4.20 FOR EXTERIOR WALL CRACK & SPALL REPAIR SCHEDULE . NOTE LOCATIONS THAT WILL HAVE TO BE ACCESSED FROM THE INTERIOR.
2. SEE A-105 FOR FINISH SCHEDULE.
3. STAIRWELL SPRINKLERS SPACED A MIN. OF 6'-0" O.C.
4. SEE 6/A-506 FOR VERTICAL CLEARANCE REQUIREMENTS AT STAIRS

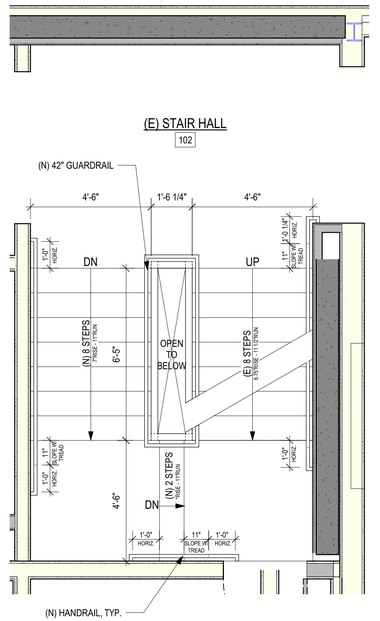


6 CENTRAL STAIR CROSS SECTION DIAGRAM
Scale: 3/8" = 1'-0"

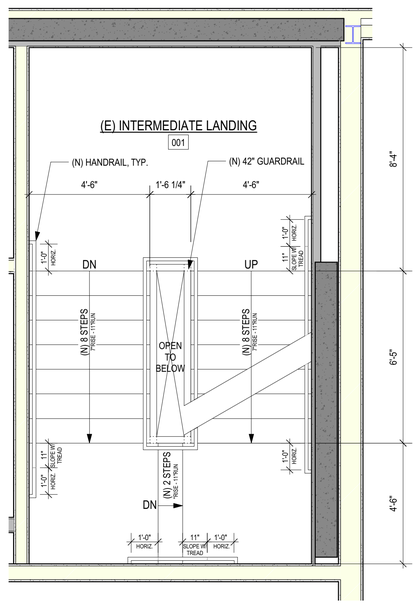
5 CENTRAL STAIR CROSS SECTION DIAGRAM
Scale: 3/8" = 1'-0"



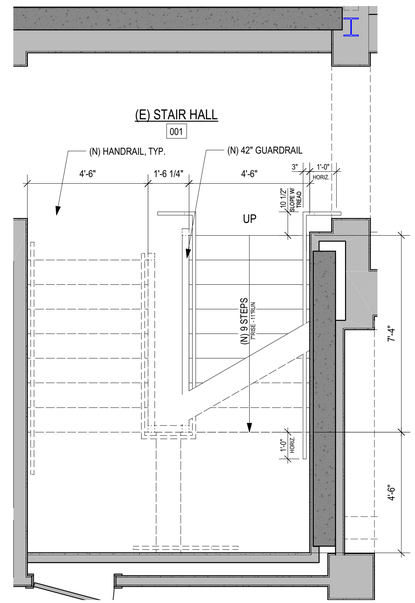
4 CENTRAL STAIR MEZZANINE FLOOR PLAN
Scale: 3/8" = 1'-0"



2 *CENTRAL STAIR FIRST FLOOR PLAN*
Scale: 3/8" = 1'-0"



3 CENTRAL STAIR INTERMEDIATE LANDING FLOOR PLAN
Scale: 3/8" = 1'-0"



1 CENTRAL STAIR BASEMENT FLOOR PLAN
Scale: 3/8" = 1'-0"

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DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

LICENSED ARCHITECT
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K. BOODJEH ARCHITECTS

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ARCATA, CA 95518

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Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
A.P.N.: 005-023-002

Project ID
210502

Sheet Title
CENTRAL STAIR

No.	Date	Appr	Revision Notes

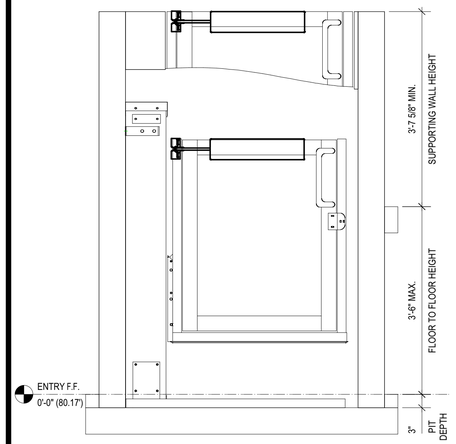
Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No.
A-414

Date: 11/10/16 Time: 2:01:37 PM File Name: Vets Hall_161107_CD.vwx

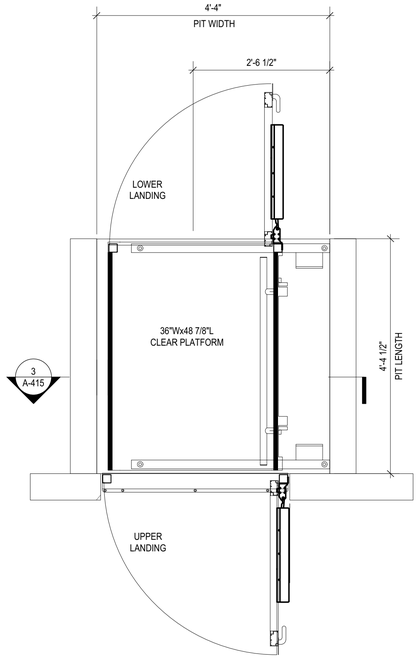
INTERIOR ELEVATION KEY NOTES

NOTES

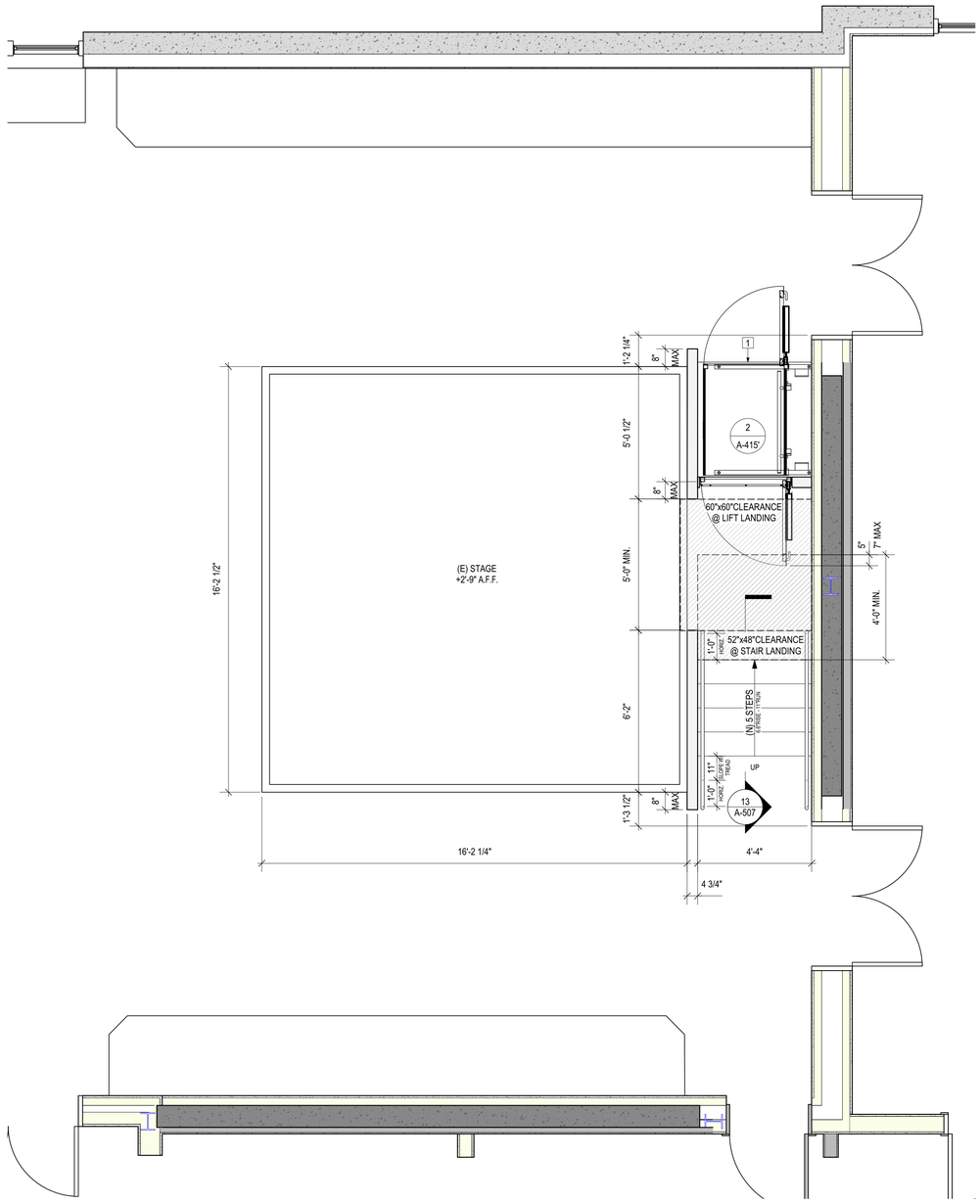
1 (N) VERTICAL CHAIR LIFT. BASIS OF DESIGN: GARAVENTA LIFT GENESIS OPAL w/ GVL-OP-42 DRIVE MAST OR APPROVED EQUAL.
SEE SPECIFICATIONS.



3 CHAIRLIFT SECTION
Scale: 3/4" = 1'-0"



2 CHAIRLIFT PLAN
Scale: 3/4" = 1'-0"



1 ENLARGED PLAN: STAGE
Scale: 3/8" = 1'-0"

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

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Sheet Title: STAGE

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
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1018 H ST. | EUREKA, CA | 95501
A.P.N.: 005-023-002

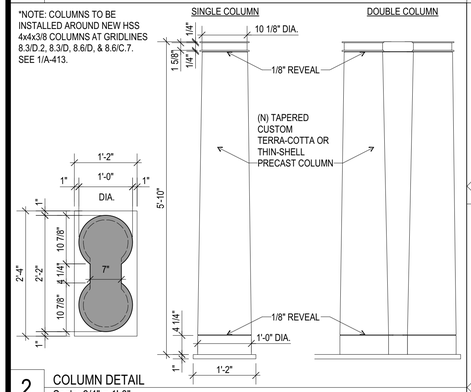
Project ID: 210502

No.	Date	Appr	Revision Notes

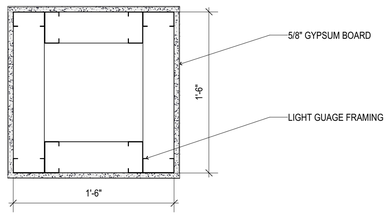
Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-415

4 NOT USED

3 NOT USED



2 COLUMN DETAIL
Scale: 3/4" = 1'-0"



1 PLAN DTL: SQUARE COLUMN
Scale: 1 1/2" = 1'-0"

AE NOT USED

AD NOT USED

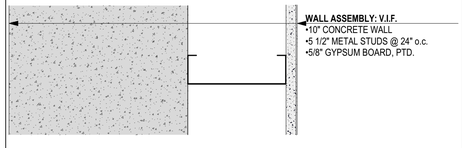
AC NOT USED

AB NOT USED

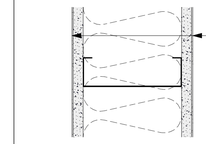
AA NOT USED

Z NOT USED

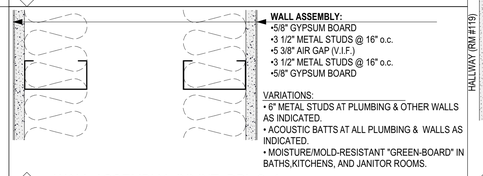
Y WALL ASSEMBLY: FIRE RATED CHASE WALL
Scale: 3" = 1'-0"



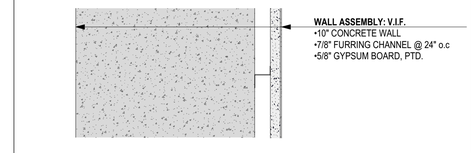
X WALL ASSEMBLY: (N) INT. 5 1/2" FURRING @ CONC. WALL
Scale: 3" = 1'-0"



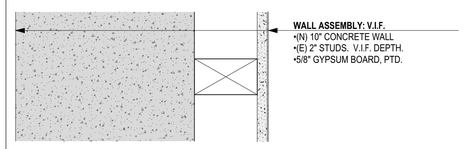
W WALL ASSEMBLY: (N) 1-HR INT. 2x
Scale: 3" = 1'-0"



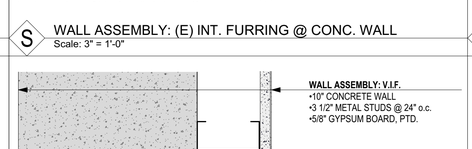
V WALL ASSEMBLY: (N) INT. DBL 2x4
Scale: 3" = 1'-0"



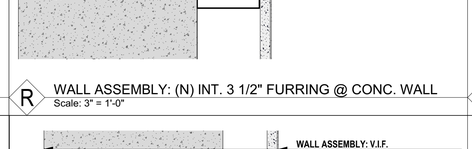
U WALL ASSEMBLY: (N) 7/8" INT. FURRING @ CONC. WALL
Scale: 3" = 1'-0"



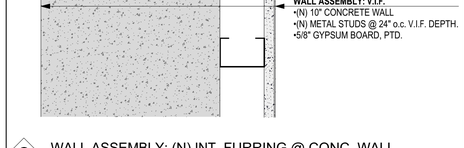
T WALL ASSEMBLY: (N) INT. 2x8"
Scale: 3" = 1'-0"



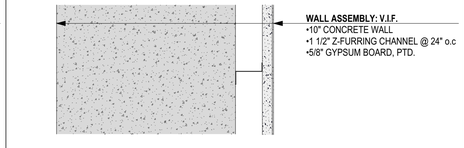
S WALL ASSEMBLY: (E) INT. FURRING @ CONC. WALL
Scale: 3" = 1'-0"



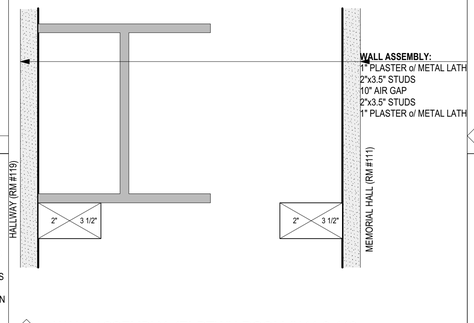
R WALL ASSEMBLY: (N) INT. 3 1/2" FURRING @ CONC. WALL
Scale: 3" = 1'-0"



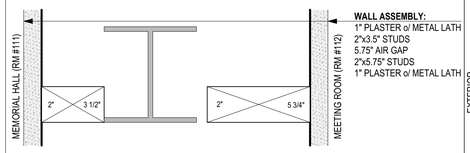
Q WALL ASSEMBLY: (N) INT. FURRING @ CONC. WALL
Scale: 3" = 1'-0"



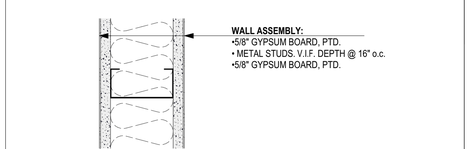
P WALL ASSEMBLY: (N) 1 1/2" INT. FURRING @ CONC. WALL
Scale: 3" = 1'-0"



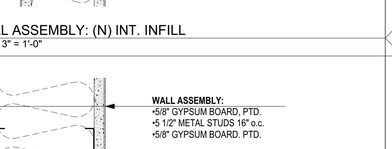
O WALL ASSEMBLY: (E) BTWN ROOM #111 & 110
Scale: 3" = 1'-0"



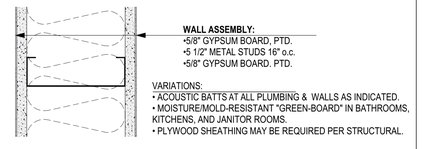
N WALL ASSEMBLY: (E) BTWN ROOM #111 & 112
Scale: 3" = 1'-0"



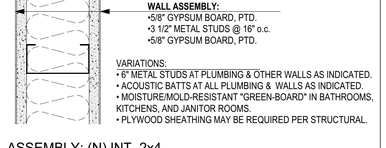
M WALL ASSEMBLY: (E) 2"x6" & 2"x4" INT. WALLS
Scale: 3" = 1'-0"



L WALL ASSEMBLY: (N) INT. INFILL
Scale: 3" = 1'-0"



K WALL ASSEMBLY: (N) INT. 2x6
Scale: 3" = 1'-0"



J WALL ASSEMBLY: (N) INT. 2x4
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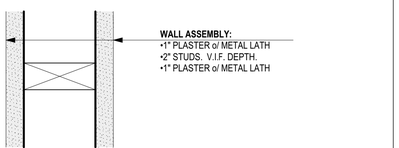
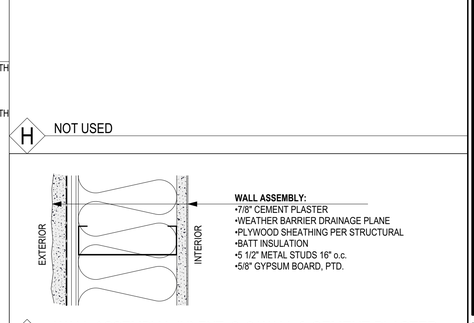


I WALL ASSEMBLY: (E) INT. WALLS
Scale: 3" = 1'-0"



H NOT USED

G WALL ASSEMBLY: (N) EXT. 2x6 WALL & CEMENT PLASTER
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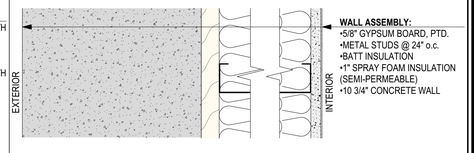
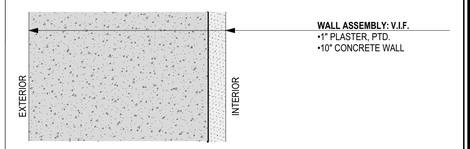
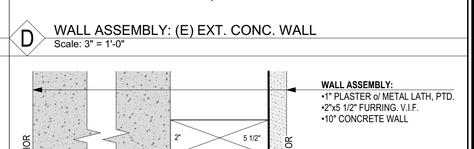


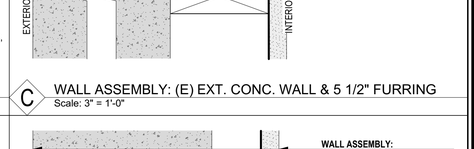
F WALL ASSEMBLY: (N) EXT. CONC. WALL & DEEP FURRING
Scale: 3" = 1'-0"



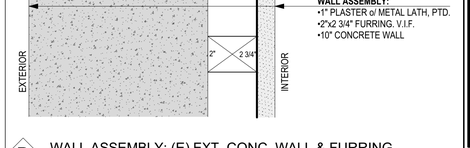
E WALL ASSEMBLY: (N) EXT. CONC. WALL & DBL STUD FURR.
Scale: 3" = 1'-0"



D WALL ASSEMBLY: (E) EXT. CONC. WALL
Scale: 3" = 1'-0"



C WALL ASSEMBLY: (E) EXT. CONC. WALL & 5 1/2" FURRING
Scale: 3" = 1'-0"



B WALL ASSEMBLY: (E) EXT. CONC. WALL & FURRING
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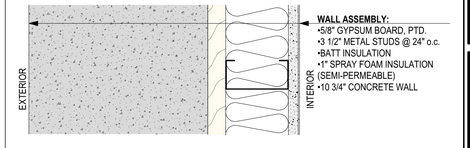

A WALL ASSEMBLY: (N) EXT. CONC. WALL & FURRING
Scale: 3" = 1'-0"

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Sheet Title: DETAILS-WALLS

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

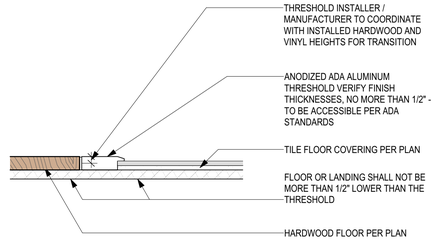
No.	Date	Appr	Revision Notes

Drawn: MC
Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-501

19 NOT USED

15 NOT USED

11 NOT USED

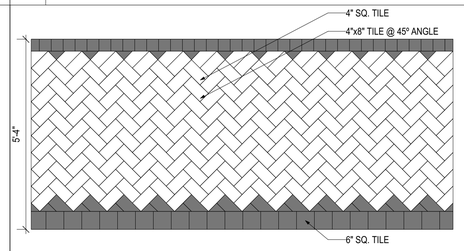


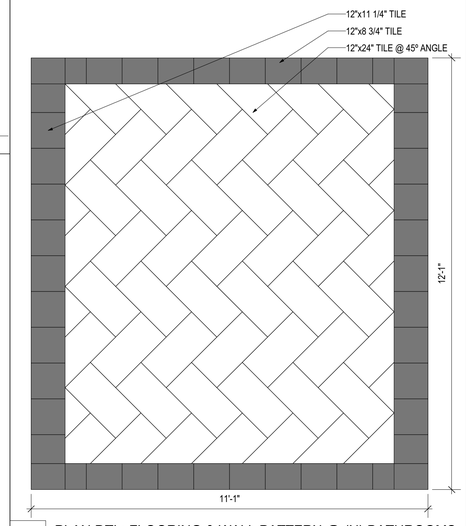
8 TYP. FLOOR FINISH TRANSITION: HARDWOOD / TILE
Scale: 3" = 1'-0"

4 NOT USED

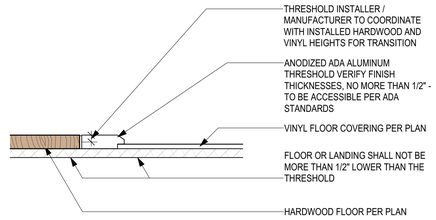
18 NOT USED

14 NOT USED





10 PLAN DTL: FLOORING & WALL PATTERN @ (N) BATHROOMS
Scale: 1/2" = 1'-0"



7 TYP. FLOOR FINISH TRANSITION: HARDWOOD / VINYL
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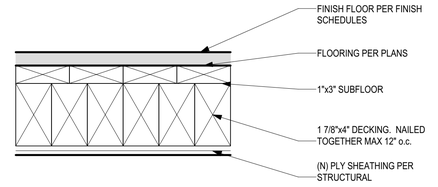
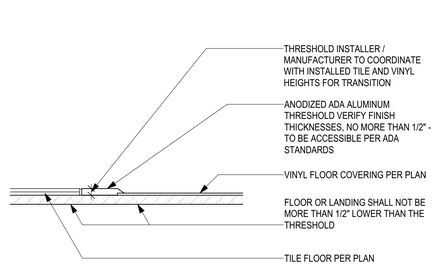


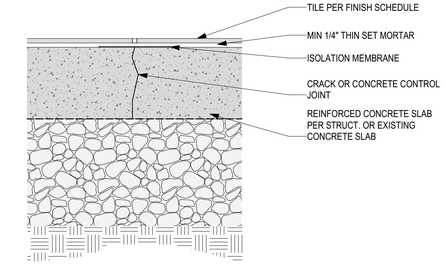
3 FLOOR ASSEMBLY: (E) DECKING & SUBFLOOR
Scale: 3" = 1'-0"

17 NOT USED

13 NOT USED



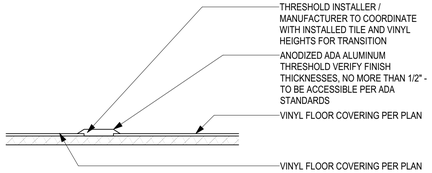
6 TYP. FLOOR FINISH TRANSITION: TILE / VINYL
Scale: 3" = 1'-0"



2 FLOOR ASSEMBLY: TILE O/ CONC. SLAB
Scale: 3" = 1'-0"

16 NOT USED

12 NOT USED



9 TYP. FLOOR FINISH TRANSITION: VINYL / VINYL
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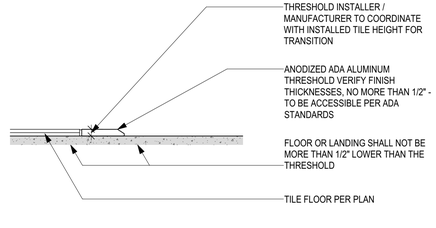

5 TYP. FLOOR FINISH TRANSITION: TILE / CONCRETE
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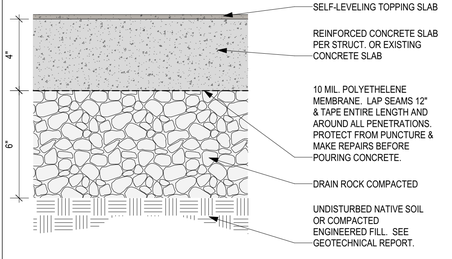

1 FLOOR ASSEMBLY: SLAB ON GRADE
Scale: 3" = 1'-0"

Date: 11/10/16 Time: 2:16:03 PM File name: Vets Hall_ 161024_DETAILS.vwx

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P.O. BOX 881
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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title: DETAILS-FLOORS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT - 1018 H ST. | EUREKA, CA | 95501 APN: 005-023-002

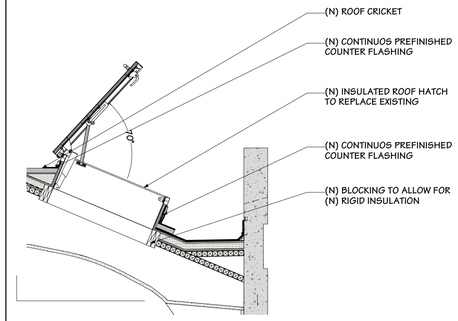
Project ID: 210502

No.	Date	Appr	Revision Notes

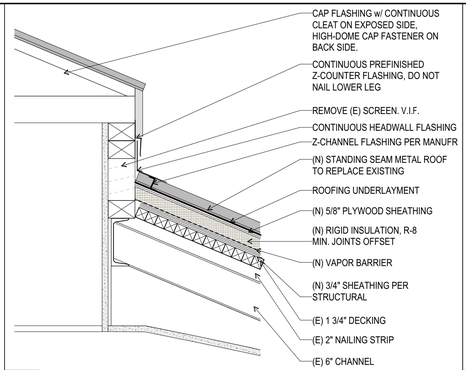
Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-502

20 NOT USED

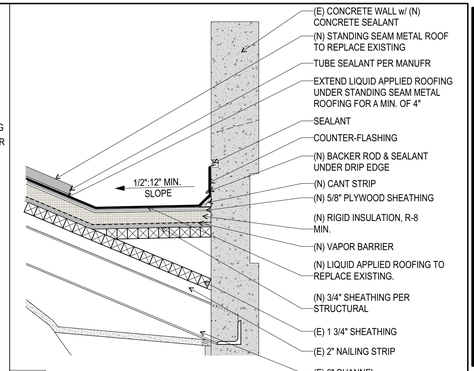
16 NOT USED



12 SECTION DTL: ATRIUM ROOF ACCESS HATCH
Scale: 1/2" = 1'-0"



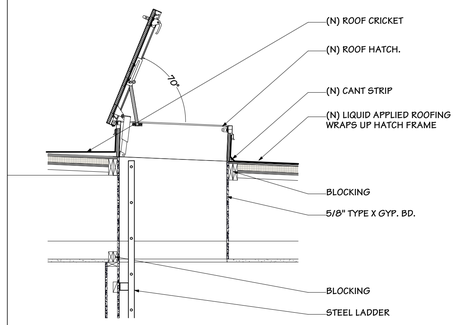
8 SECTION DTL: STANDING SEAM TO WOOD WALL & SKYLIGHT
Scale: 1" = 1'-0"



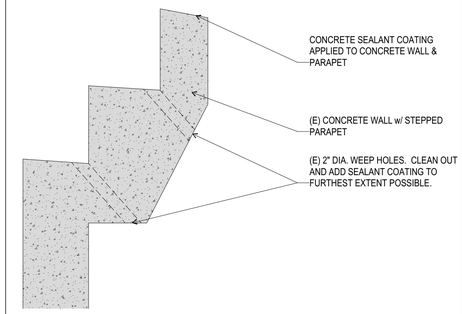
7 SECTION DTL: STANDING SEAM TO FLAT ROOFING
Scale: 1" = 1'-0"

19 NOT USED

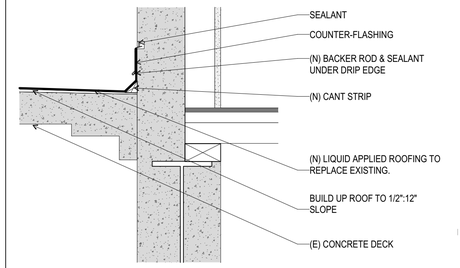
15 NOT USED



11 SECTION DTL: LOW-SLOPE ROOF ACCESS HATCH
Scale: 1/2" = 1'-0"



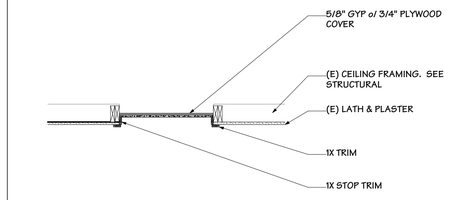
6 SECTION DTL: CONCRETE STEPPED WALL PARAPET
Scale: 1" = 1'-0"



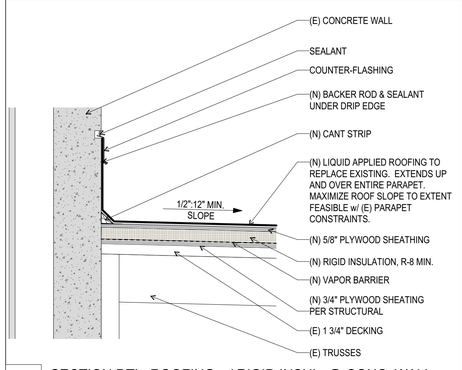
5 SECTION DTL: CONCRETE ROOF TO CONCRETE WALL
Scale: 1" = 1'-0"

18 NOT USED

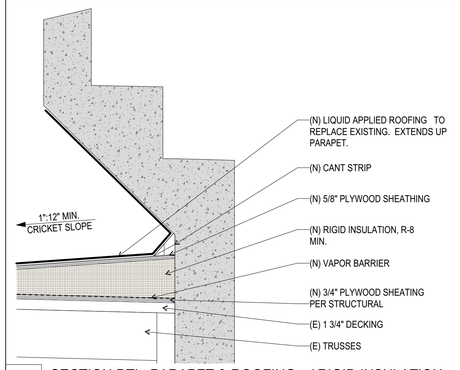
14 NOT USED



10 SECTION DTL: INTERSTITIAL ACCESS HATCH
Scale: 1/2" = 1'-0"



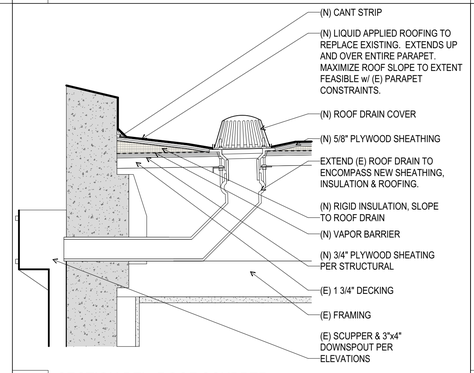
4 SECTION DTL: ROOFING w/ RIGID INSUL. @ CONC. WALL
Scale: 1" = 1'-0"



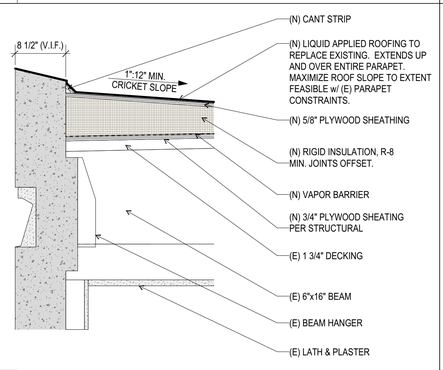
3 SECTION DTL: PARAPET & ROOFING w/ RIGID INSULATION
Scale: 1" = 1'-0"

17 NOT USED

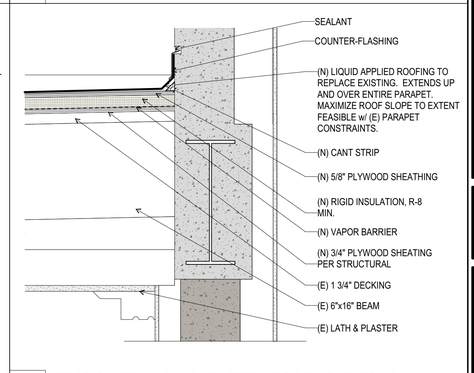
13 NOT USED



9 SECTION DTL: ROOF SCUPPER
Scale: 1" = 1'-0"



2 SECTION DTL: LOW PARAPET & ROOFING w/ RIGID INSUL.
Scale: 1" = 1'-0"



1 SECTION DTL: LOW PARAPET & ROOFING @ CONC. WALL
Scale: 1" = 1'-0"

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COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

LICENSED ARCHITECT
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REN 12-31-17
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Sheet Title: DETAILS-ROOF/CEILING

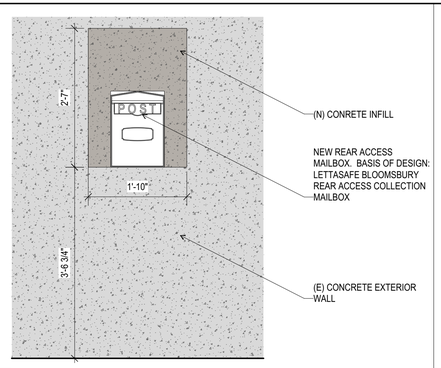
Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-503

Date: 11/10/16 Time: 2:16:03 PM File name: Veto Hall_181024_DETAILS.vwx

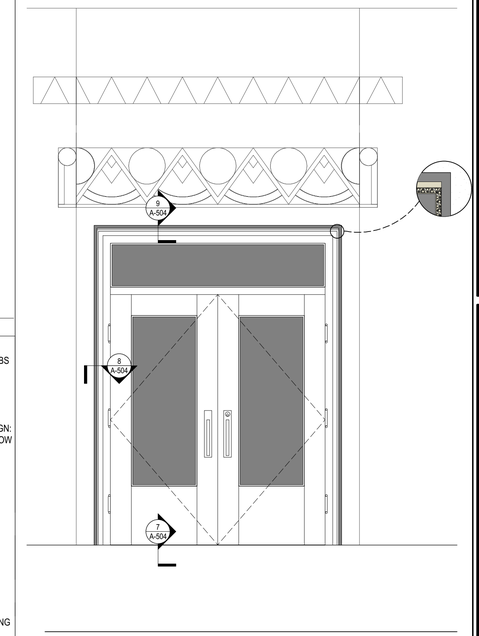


18 ELEVATION DTL: (N) MAILBOX
Scale: 3/4" = 1'-0"

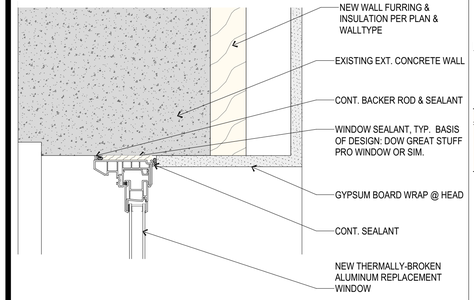
14 NOT USED

10 NOT USED

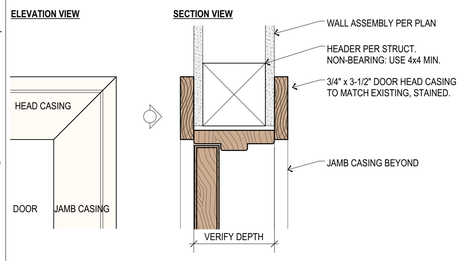
6 NOT USED



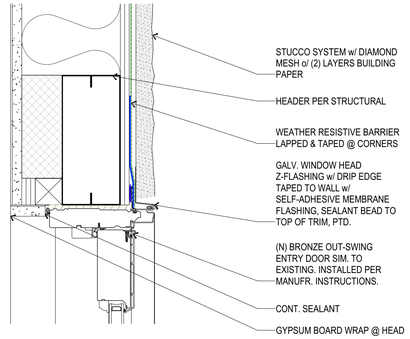
2 ELEVATION DTL: 1ST FLOOR SOUTHEAST ENTRY DOOR
Scale: 1/2" = 1'-0"



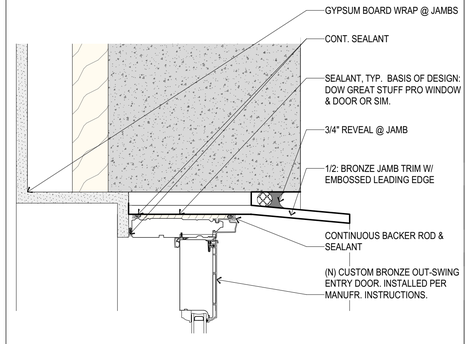
17 SECTION DTL: WINDOW HEAD
Scale: 3" = 1'-0"



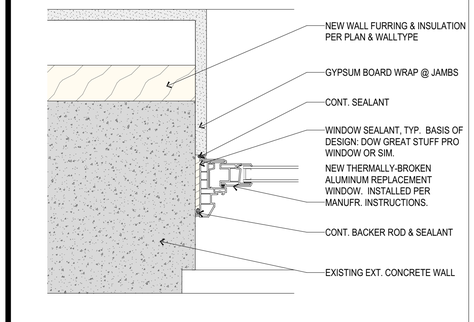
13 SECTION DTL: INT. DOOR HEAD
Scale: 3" = 1'-0"



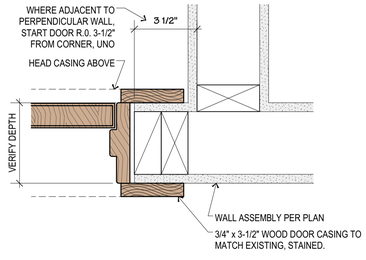
9 SECTION DTL: EXT. DOOR HEAD @ (N) FRAMED WALL
Scale: 3" = 1'-0"



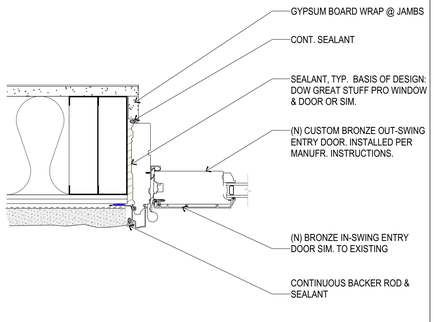
5 SECTION DTL: EXT. DOOR HEAD @ (E) CONC. WALL
Scale: 3" = 1'-0"



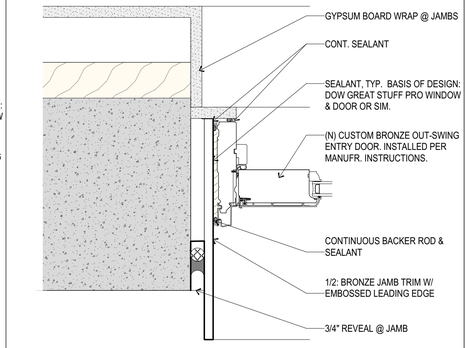
16 PLAN DTL: WINDOW JAMB
Scale: 3" = 1'-0"



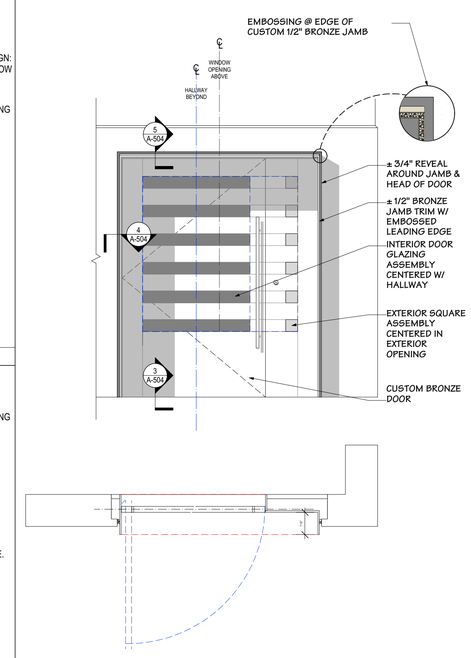
12 PLAN DTL: INT. DOOR JAMB
Scale: 3" = 1'-0"



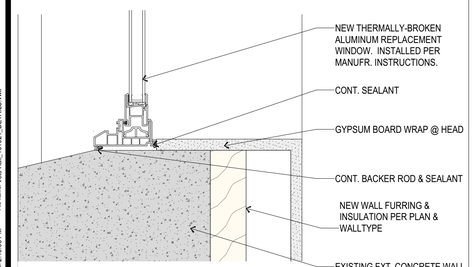
8 PLAN DTL: EXT. DOOR JAMB @ (N) FRAMED WALL
Scale: 3" = 1'-0"



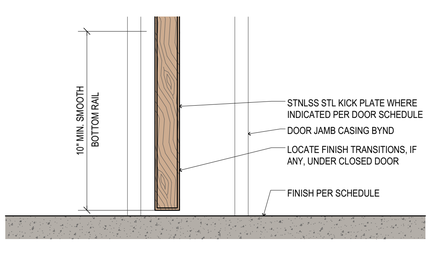
4 PLAN DTL: EXT. DOOR JAMB @ (E) CONC. WALL
Scale: 3" = 1'-0"



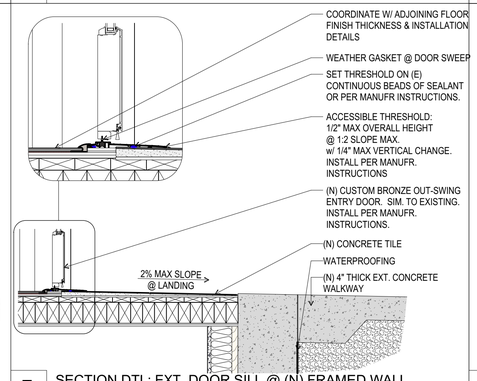
1 ELEVATION DTL: BASEMENT NORTH ENTRY DOOR
Scale: 1/2" = 1'-0"



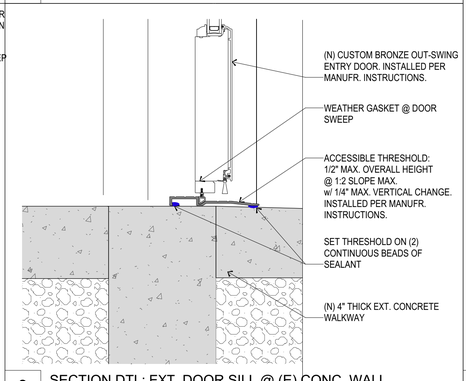
15 SECTION DTL: WINDOW SILL
Scale: 3" = 1'-0"



11 SECTION DTL: INT. DOOR SILL
Scale: 3" = 1'-0"



7 SECTION DTL: EXT. DOOR SILL @ (N) FRAMED WALL
Scale: 1" = 1'-0"



3 SECTION DTL: EXT. DOOR SILL @ (E) CONC. WALL
Scale: 3" = 1'-0"

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COUNTY OF HUMBOLDT
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Sheet Title
DETAILS-WALL OPENINGS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

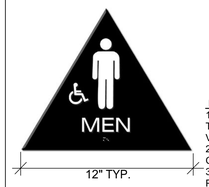
Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No.
A-504

File name: Vets Hall_181026_DETAILS.vwx
Time: 2:16:03 PM
Date: 11/16/16

20 NOT USED

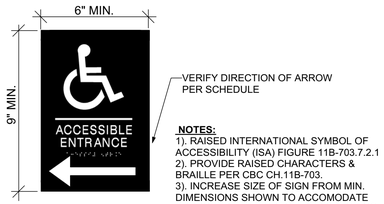
NOTES:
1). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.
2). THIS SIGN SHALL COMPLY WITH CBC 1011.4

16 EXIT STAIR UP
Scale: 3" = 1'-0"



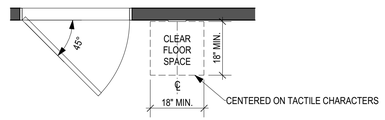
NOTES:
1). SIGN SHALL HAVE BLACK EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND VERTEX POINTING UP.
2). EDGES AND CORNERS SHALL BE ROUNDED, CHAMFERED, OR EASED TO MIN. RADIUS OF 1/8".
3). ALTHOUGH NOT REQ'D, THE SIGN MAY INCLUDE PICTOGRAM, ISA, TEXT, AND/OR BRAILLE.
4). MOUNT ON DOOR PER DETAIL #.

12 RESTROOM DOOR - MEN
Scale: 3" = 1'-0"



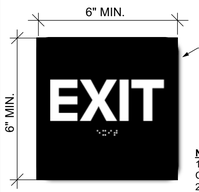
NOTES:
1). RAISED INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) FIGURE 11B-703.7.2.1
2). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703.
3). INCREASE SIZE OF SIGN FROM MIN. DIMENSIONS SHOWN TO ACCOMODATE APPROVED TEXT & REQUIRED SPACINGS.

8 ACCESSIBLE ENTRANCE (DIRECTIONAL)
Scale: 3" = 1'-0"



4 LOCATION OF TACTILE SIGNS @ DOORS, TYP.
Scale: 1/2" = 1'-0"

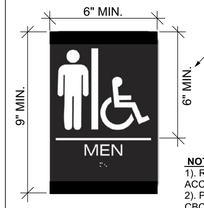
19 NOT USED



SIGN SIZE: SEE "NOTES" COLUMN OF SIGN SCHEDULE FOR PARTICULAR TACTILE "EXIT" SIGNS WHICH ARE REQUIRED TO MATCH SIZE OF SIGN ON OPPOSITE SIDE OF GLASS.

NOTES:
1). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.
2). THIS SIGN SHALL COMPLY WITH CBC 1011.4

15 EXIT
Scale: 3" = 1'-0"

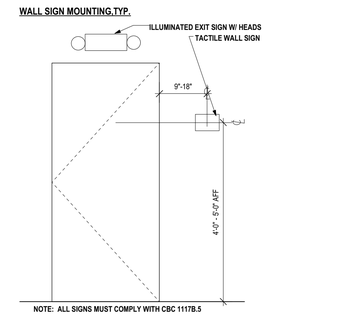


NOTES:
1). RAISED INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) FIGURE 11B-703.7.2.1
2). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.

11 RESTROOM WALL - MEN
Scale: 3" = 1'-0"

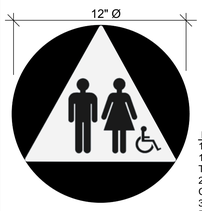
NOTES:
1). RAISED INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) FIGURE 11B-703.7.2.1
2). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703.
3). INCREASE SIZE OF SIGN FROM MIN. DIMENSIONS SHOWN TO ACCOMODATE APPROVED TEXT & REQUIRED SPACINGS.

7 ACCESSIBLE ENTRANCE
Scale: 3" = 1'-0"



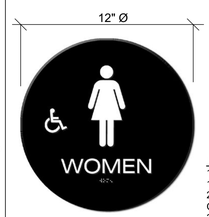
3 EXIT SIGN MOUNTING
Scale: 1/2" = 1'-0"

18 NOT USED



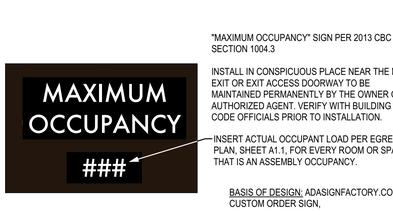
NOTES:
1). SIGN SHALL HAVE BLACK CIRCLE 1/4" THICK AND 12" IN DIAMETER, SUPERIMPOSED BY A WHITE 1/4" THICK TRIANGLE WITH A VERTEX POINTING UP.
2). EDGES AND CORNERS SHALL BE ROUNDED, CHAMFERED, OR EASED TO MIN. RADIUS OF 1/8".
3). ALTHOUGH NOT REQ'D, THE SIGN MAY INCLUDE PICTOGRAMS, ISA,TEXT, AND/OR BRAILLE.
4). MOUNT ON DOOR PER DETAIL #.

14 RESTROOM DOOR - UNISEX
Scale: 3" = 1'-0"

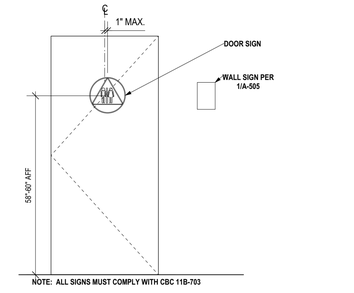


NOTES:
1). SIGN SHALL HAVE BLACK CIRCLE 1/4" THICK AND 12" IN DIAMETER.
2). EDGES AND CORNERS SHALL BE ROUNDED, CHAMFERED, OR EASED TO A MIN. RADIUS OF 1/8"
3). ALTHOUGH NOT REQ'D, THE SIGN MAY INCLUDE PICTOGRAMS, ISA,TEXT, AND/OR BRAILLE.
4). MOUNT ON DOOR PER DETAIL #.

10 RESTROOM DOOR - WOMEN
Scale: 3" = 1'-0"

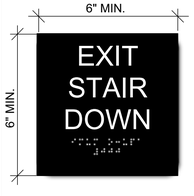


6 MAX. OCCUPANCY SIGN
Scale: 3" = 1'-0"

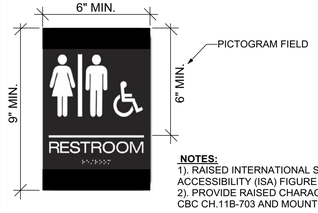


2 RESTROOM DOOR & WALL SIGN MOUNTING
Scale: 1/2" = 1'-0"

17 EXIT STAIR DOWN
Scale: 3" = 1'-0"

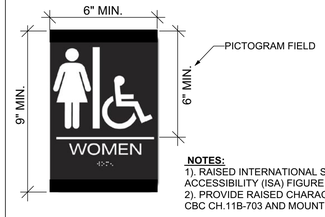


NOTES:
1). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.
2). THIS SIGN SHALL COMPLY WITH CBC 1011.4



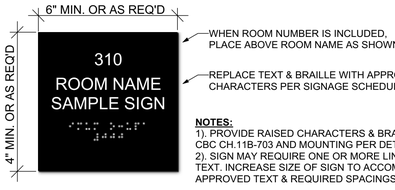
NOTES:
1). RAISED INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) FIGURE 11B-703.7.2.1
2). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.

13 RESTROOM WALL - UNISEX
Scale: 3" = 1'-0"



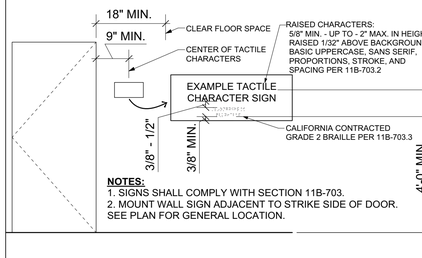
NOTES:
1). RAISED INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) FIGURE 11B-703.7.2.1
2). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.

9 RESTROOM WALL - WOMEN
Scale: 3" = 1'-0"



NOTES:
1). PROVIDE RAISED CHARACTERS & BRAILLE PER CBC CH.11B-703 AND MOUNTING PER DETAIL 1.
2). SIGN MAY REQUIRE ONE OR MORE LINES OF TEXT. INCREASE SIZE OF SIGN TO ACCOMODATE APPROVED TEXT & REQUIRED SPACINGS.

5 ROOM NAME SIGN - TACTILE
Scale: 3" = 1'-0"



NOTES:
1. SIGNS SHALL COMPLY WITH SECTION 11B-703.
2. MOUNT WALL SIGN ADJACENT TO STRIKE SIDE OF DOOR. SEE PLAN FOR GENERAL LOCATION.

1 TACTILE SIGN & MOUNTING DETAIL, TYP.
Scale: 3" = 1'-0"

Date: 11/10/16 Time: 2:16:08 PM File name: Veter Hall_ 1010A_DETAILS.vwx

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Sheet Title: DETAILS - SIGNAGE

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1016 H ST. | EUREKA, CA | 95501
APN: 005-023-002

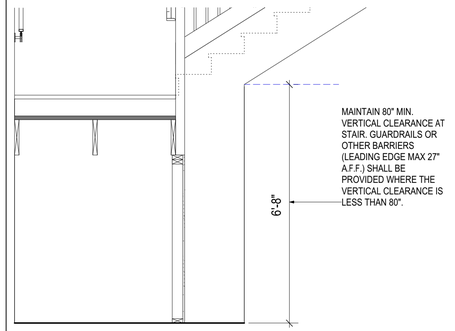
Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: MC | Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-505

14 NOT USED

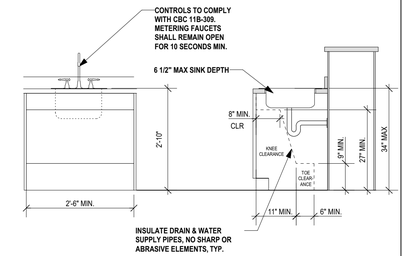
10 NOT USED



6 SECTION DTL: CENTRAL STAIR VERTICAL CLEARANCE
Scale: 1/2" = 1'-0"

NOTES:
- 50% OF STORAGE SHALL BE WITHIN REACH RANGES, SEE DETAIL 3/2.2. AND HAVE A 30"x48 CLEAR FLOOR AREA FOR A FORWARD OR PARELLEL APPROACH.

- APPLIANCE OPERABLE PARTS SHALL BE WITHIN REACH RANGES, SEE DETAIL 3/2.2 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. 5 LBS MAX. FORCE TO ACTIVIATE OPERABLE PARTS.



4 SECTION DTL: KITCHENETTE
Scale: 1/2" = 1'-0"

ACCESSIBILITY NOTES:

1. CONTROLS AND OPERATING MECHANISMS SHALL COMPLY WITH CBC 11B-309.

2. THE HIGHEST AND LOWEST OPERABLE PARTS OF ALL CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" AND 15" OF THE FINISH FLOOR LEVEL PER CBC 11B-308. WHERE OBSTRUCTION ARE PRESENT, COMPLY WITH APPLICABLE PROVISIONS. EXCEPTIONS APPLY PER CBC 11B-205 FOR ELEMENTS INTENDED FOR USE ONLY BY SERVICE OR MAINTENANCE PERSONNEL, RECEPTACLES SERVING A DEDICATED USE, FLOOR RECEPTACLES, HVAC DIFFUSERS, & REDUNDANT CONTROLS.

3. ANY RECESSED FIXTURES SUCH AS FIRE EXTINGUISHER CABINETS OR ELECTRIC PANELS EXCEEDING 16 SQUARE INCHES IN AREA SHALL BE INSTALLED PER CBC 714.3.2. & PER LISTED MANUFR INSTNS.

4. FLOORS & LEVELS
NOTE: LEVEL AREA IS DEFINED AS "A SPECIFIED SURFACE THAT DOES NOT HAVE A SLOPE IN ANY DIRECTION EXCEEDING ONE UNIT VERTICAL IN 50 UNITS HORIZONTAL (2% SLOPE)".
A. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.
B. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE FIRM, AND SLIP-RESISTANT.
C. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT.
D. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL.

5. HAZARDS & PROTRUDING OBJECTS
A. WHEN A GUARDRAIL OR HANDRAIL IS PROVIDED, NO WARNING CURB IS REQUIRED WHEN A GUARDRAIL IS PROVIDED CENTERED 3"±1" ABOVE THE SURFACE OF THE WALK OR SIDEWALK, THE WALK IS 5 PERCENT OR LESS GRADIENT, OR NO ADJACENT HAZARD EXISTS.
B. OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
C. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT INTO WALKS, HALL, CORRIDORS, PASSAGEWAYS, OR AISLES.
D. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE GROUND OR FINISHED FLOOR.
E. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
F. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM.
G. ANY OBSTRUCTION THAT OVERHANGS A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80" ABOVE THE WALKING SURFACE AS MEASURED FROM THE BOTTOM OF THE OBSTRUCTION.

6. SPACE ALLOWANCE & REACH RANGE
A. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30" BY 48". THE MINIMUM FLOOR OR GROUND SPACE SHALL BE INCREASED TO 42" BY 48" WHEN SUCH SPACE IS PERPENDICULAR TO AN ADJACENT SEATING SPACE. THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS.
B. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. IF A CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCES SHALL BE PROVIDED.
C. THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180 DEGREE TURN IS A CLEAR SPACE OF 60" DIAMETER OR A T-SHAPED SPACE.
D. IF THE CLEAR FLOOR SPACE ALLOWS ONLY FORWARD APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48". THE MINIMUM LOW FORWARD REACH IS 15". IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION LESS THAN 20" IN DEPTH, KNEE CLEARANCE SHALL BE PROVIDED EQUAL TO OR GREATER THAN THE DEPTH OF THE OBSTRUCTION. IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH, KNEE CLEARANCE SHALL BE PROVIDED EQUAL TO OR GREATER THAN THE DEPTH OF THE OBSTRUCTION, AND THE MAXIMUM HIGH FORWARD REACH SHALL BE 44". THE OBSTRUCTION SHALL NOT BE GREATER THAN 25" IN DEPTH.
E. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 54" AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9" ABOVE THE FLOOR. THE SIDE HIGH REACH IS REDUCED TO 46" MAXIMUM WHEN THERE IS AN OBSTRUCTION MEASURING NO GREATER THAN 34" FROM THE FLOOR AND 24" IN DEPTH.

7. EMPLOYEE WORK AREAS & WORK STATIONS
NOTE: GENERAL EMPLOYEE AREAS ARE "THOSE AREAS COMMONLY USED BY MULTIPLE EMPLOYEES, SUCH AS RESTROOMS, BREAK ROOMS, CONFERENCE AND MEETING SPACE, ETC." EVEN WHEN THESE AREAS ARE RESTRICTED FOR EMPLOYEE USE ONLY, THEY MUST COMPLY WITH TITLE 24 ACCESSIBILITY REQUIREMENTS.
NOTE: SPECIFIC WORK STATIONS IS INTENDED TO MEAN "PLACES WHERE INDIVIDUALS DO THERE WORK, SUCH AS A CHEF'S CHOPPING BLOCK IN A COMMERCIAL RESTAURANT OR A COMPUTER TERMINAL IN AN OFFICE". THESE WORK STATIONS ARE NOT REQUIRED TO BE ACCESSIBLE THEMSELVES, EXCEPT THAT AISLE AND FLOOR AND LEVEL REQUIREMENTS MUST BE MET AND ENTRYWAYS MUST BE AT LEAST 32" IN CLEAR WIDTH.
A. SPECIFIC WORK STATIONS, WITH THE EXCEPTION OF WORK STATIONS IN SALES FACILITIES, CHECK STANDS, TICKET BOOTHS, AND OTHER WORK STATIONS WITH SPECIFIC REQUIREMENTS CONTAINED IN OTHER PORTIONS OF THE REGULATIONS, NEED ONLY COMPLY WITH AISLE WIDTH AND FLOORS AND LEVELS, AND ENTRY-WAYS SHALL BE 32" IN CLEAR WIDTH.
B. EMPLOYEE WORK AREAS SHALL BE ACCESSIBLE BY MEANS OF A 36" MINIMUM AISLE AND A 32" MINIMUM CLEAR OPENING DOOR WIDTH.
C. EMPLOYEE AREAS SHALL CONFORM TO ALL REQUIREMENTS OF THE DIVISION OF THE STATE A RCHITECT/ACCESS COMPLIANCE SECTION IN THE CALIFORNIA BUILDING CODE, PLUMBING CODE, AND ELECTRICAL CODE.

8. ASSEMBLY OCCUPANCIES
A. DINING, BANQUET AND BAR FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES AS PROVIDED IN THIS SECTION. ALL AREAS WHERE EACH TYPE OF FUNCTIONAL ACTIVITY OCCURS SHALL BE MADE ACCESSIBLE.
B. EACH DINING, BANQUET AND BAR AREA SHALL HAVE ONE WHEELCHAIR SEATING SPACE FOR EACH 20 SEATS, WITH AT LEAST (1) MINIMUM WHEELCHAIR SEATING SPACE PER FUNCTIONAL AREA. ACCESS TO SUCH SEATING SPACES SHALL BE PROVIDED WITH MAIN AISLES NOT LESS THAN 36".
C. WHERE FIXED OR BUILT-IN SEATING, TABLES OR COUNTERS ARE PROVIDED IN ACCESSIBLE PUBLIC USE OR COMMON USE AREAS, 5%, BUT NEVER LESS THAN ONE, MUST BE ACCESSIBLE AND AN ACCESSIBLE ROUTE OF TRAVEL SHALL LEAD TO AND THROUGH SUCH FIXED SEATING AREA.
D. EACH WHEELCHAIR SEAT/SPACE SHALL ADJOIN AN EGRESS AISLE ON AT LEAST ONE SIDE.
E. EACH WHEELCHAIR SEAT/SPACE SHALL BE LEVEL AND PROVIDE A MINIMUM CLEAR FLOOR OR GROUND SPACE OF 33" IN WIDTH AND 60" (SIDE ACCESS) OR 48" (FRONT OR REAR ACCESS) IN DEPTH.
F. READILY REMOVABLE SEATS MAY BE INSTALLED IN WHEELCHAIR SPACES WHEN SUCH SPACES ARE NOT BEING USED TO ACCOMMODATE WHEELCHAIR USERS.
G. WHERE FOOD OR DRINK IS SERVED AT COUNTERS EXCEEDING 34" IN HEIGHT FOR CONSUMPTION BY CUSTOMERS, A PORTION OF THE MAIN COUNTER WHICH IS 60" IN LENGTH MINIMUM SHALL BE PROVIDED WITH ACCESSIBLE HEIGHT AND KNEE CLEARANCE.
H. FOOD SERVICE AISLES SHALL BE AT LEAST 36" CLEAR WIDTH WITH A PREFERRED WIDTH OF AT LEAST 42" WHERE PASSAGE OF STOPPED WHEELCHAIRS BY PEDESTRIANS IS DESIRED. IF SELF SERVICE SHELVES ARE PROVIDED AT LEAST 50% OF EACH TYPE SHALL COMPLY WITH ACCESSIBLE REACH RANGES.
I. ACCESS TO FOOD PREPARATION AREAS SHALL COMPLY ACCESSIBLE ENTRANCE, AISLE AND DOORWAY REQUIREMENTS.

9. STORAGE FACILITIES & AREAS
A. IF FIXED STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS OR DRAWERS ARE PROVIDED WHERE ACCESS IS REQUIRED BY SECTION 1.9.1, AT LEAST ONE OF EACH TYPE SHALL BE ACCESSIBLE IN TERMS OF CLEAR SPACE, REACH RANGES, AND HARDWARE.
B. A CLEAR FLOOR SPACE AT LEAST 30" BY 48" THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT ACCESSIBLE STORAGE FACILITIES.
C. ACCESSIBLE STORAGE SPACES SHALL BE WITHIN AT LEAST ONE OF THE HEIGHT RANGES SPECIFIED IN SECTIONS 1118B.5 AND 1118B.6.
D. HARDWARE FOR ACCESSIBLE STORAGE FACILITIES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE HARDWARE SHALL BE NO GREATER THAN 5 POUNDS. TOUCH LATCHES AND U-SHAPED PULLS ARE ACCEPTABLE.
E. CLOTHES RODS SHALL BE A MAXIMUM OF 54" FROM THE FLOOR FOR A SIDE APPROACH. WHERE THE DISTANCE FROM THE WHEELCHAIR TO THE CLOTHES ROD OR SHELF EXCEEDS 10", AS IN CLOSETS WITHOUT ACCESSIBLE DOORS, THE HEIGHT AND DEPTH OF THE ROD OR SHELF SHALL COMPLY WITH FIGURE 11B-5D.
F. THE DOORWAY PROVIDING ACCESS TO STORAGE AREAS SHALL BE NOT LESS THAN 32" IN CLEAR WIDTH. STORAGE AREAS SHALL BE MADE ACCESSIBLE AS REQUIRED IN SECTION 3105A(O).

13 NOT USED

9 NOT USED

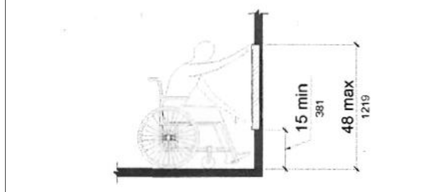


FIGURE *11B*-308.2.1
UNOBSTRUCTED FORWARD REACH

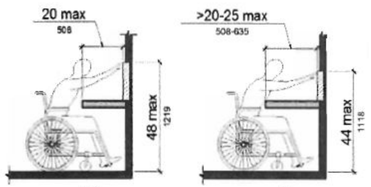


FIGURE *11B*-308.2.2
OBSTRUCTED HIGH FORWARD REACH

FIGURE *11B*-308.3.1
UNOBSTRUCTED SIDE REACH

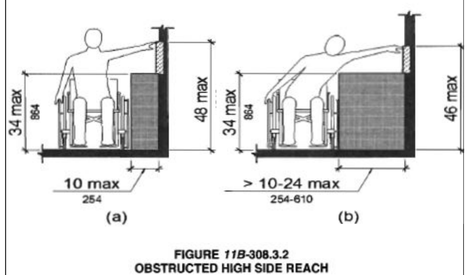
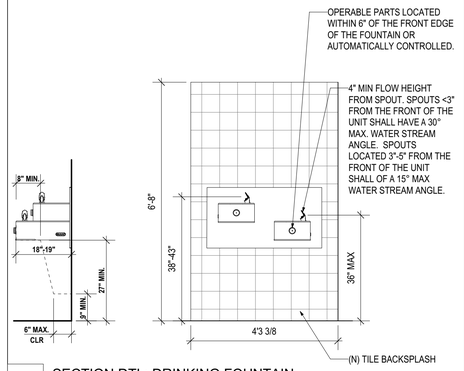


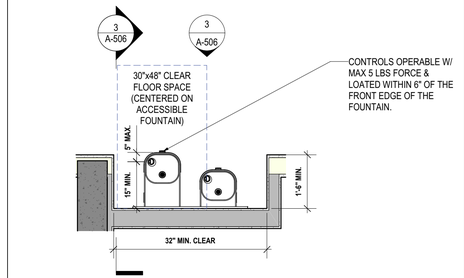
FIGURE *11B*-308.3.2
OBSTRUCTED HIGH SIDE REACH



3 SECTION DTL: DRINKING FOUNTAIN
Scale: 1/2" = 1'-0"

12 NOT USED

8 DTL: ACCESSIBLE BAR CLEARANCES
Scale: 1/2" = 1'-0"



2 PLAN DTL: DRINKING FOUNTAIN
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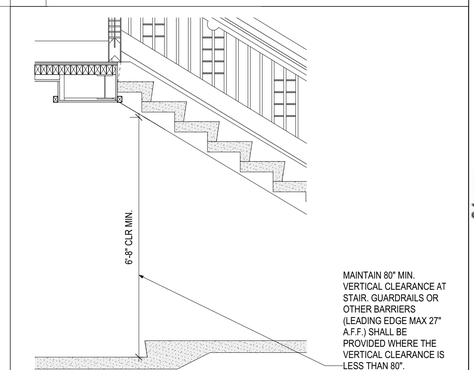

11 NOT USED

7 SECTION DTL: NORTH STAIR VERTICAL CLEARANCE
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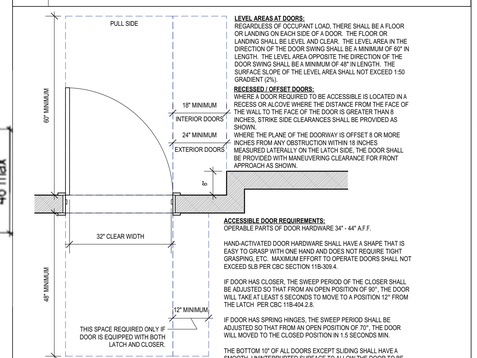

1 PLAN DTL: DOOR SWING CLEARANCES
Scale: 1/2" = 1'-0"

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DETAILS - ACCESSIBILITY

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1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. A-506

Date: 11/10/16 Time: 2:16:08 PM File name: Vets Hall_161024_DETAILS.vwx

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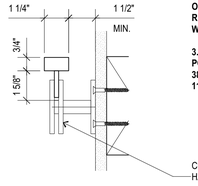


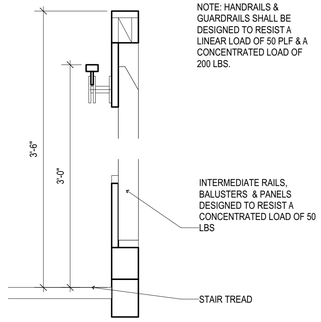
NOTES:

1. THERE ARE TO BE NO SHARP OR ABRASIVE ELEMENTS TO INTERFERE WITH HANDRAIL GRASP. EDGES MUST HAVE A MINIMUM RADIUS OF 1/8", TYP.

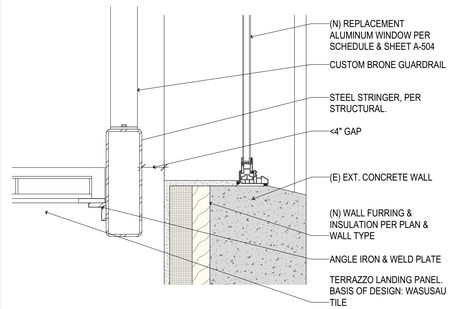
2. HANDRAIL ENDS THAT DO NOT CONTINUE TO THE HANDRAIL OF AN ADJACENT FLIGHT MUST RETURN TO THE WALL OR WALKING SURFACE.

3. HANDRAIL TO BE FIRMLY FASTENED TO WALL OR POST WITH TOP OF GRASPABLE HANDRAIL AT 34" - 38" ABOVE THE STAIR-TREAD NOSING. MEETS CBC 1133B.4.2.1.

16 SECTION DTL: CENTRAL STAIR HANDRAIL
Scale: 3" = 1'-0"

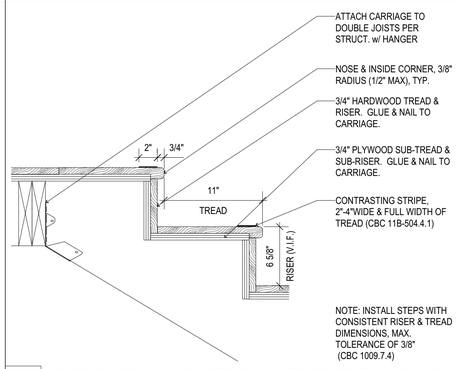


12 DETAIL: CUSTOM BRONZE GUARDRAIL
Scale: 1 1/2" = 1'-0"



8 SECTION DTL: (N) LANDING @ NORTH STAIR
Scale: 1 1/2" = 1'-0"

4 NOT USED



15 SECTION DTL: (N) INT. TREADS @ STAGE STAIR LANDING
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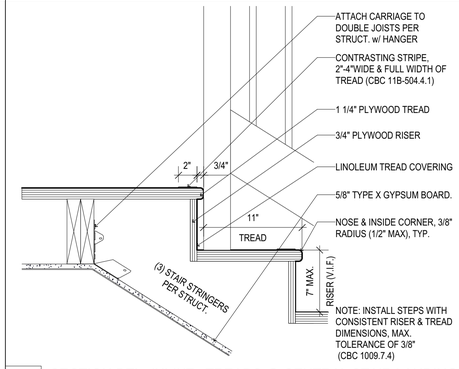

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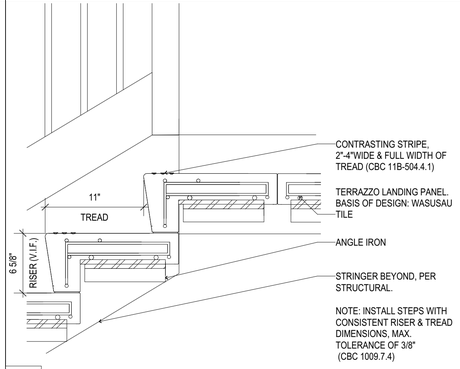
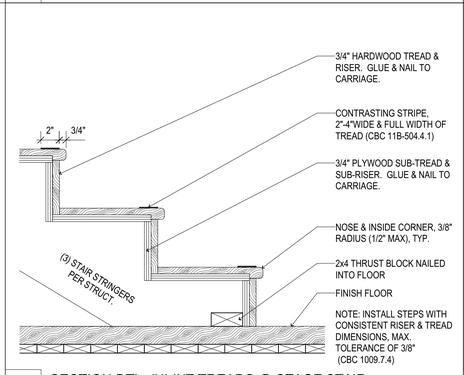


Scale: 1 1/2" = 1'-0"
7 SECTION DTL: (N) INT. TREADS @ NORTH STAIR LANDING

3 NOT USED



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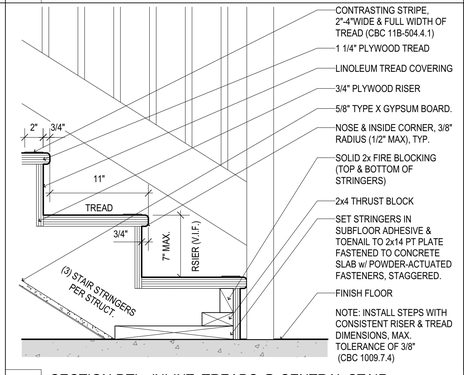
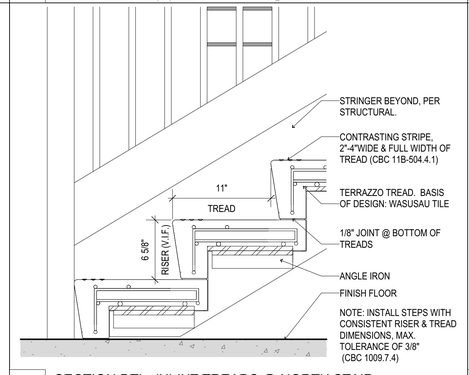
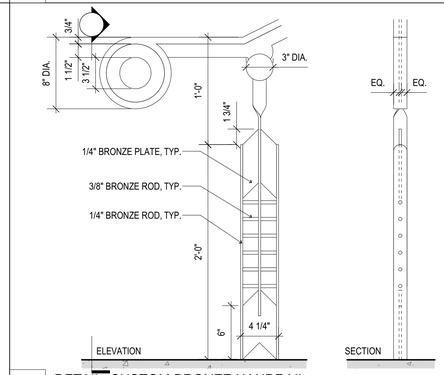


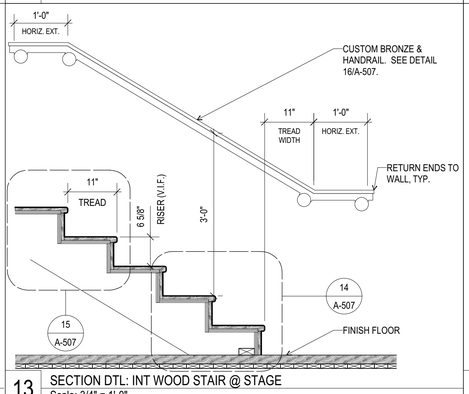
10 SECTION DTL: (N) INT. TREADS @ CENTRAL STAIR
Scale: 1 1/2" = 1'-0"



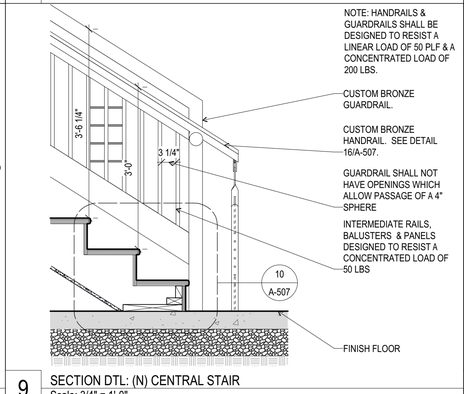
6 SECTION DTL: (N) INT.TREADS @ NORTH STAIR
Scale: 1 1/2" = 1'-0"



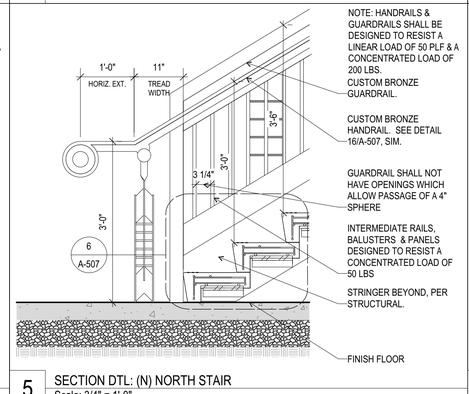
2 DETAIL: CUSTOM BRONZE HANDRAIL
Scale: 1 1/2" = 1'-0"



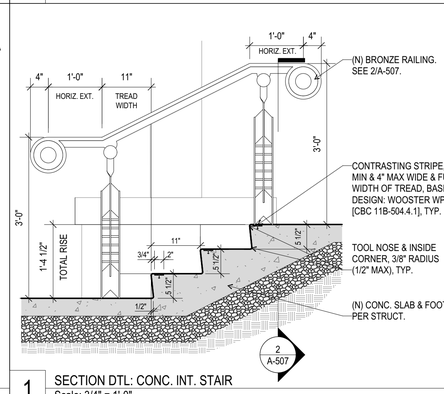
13 SECTION DTL: INT WOOD STAIR @ STAGE
Scale: 3/4" = 1'-0"



9 SECTION DTL: (N) CENTRAL STAIR
Scale: 3/4" = 1'-0"



5 SECTION DTL: (N) NORTH STAIR
Scale: 3/4" = 1'-0"



1 SECTION DTL: CONC. INT. STAIR
Scale: 3/4" = 1'-0"

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Sheet Title: DETAILS - STAIRS

Project Title: **EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -**
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

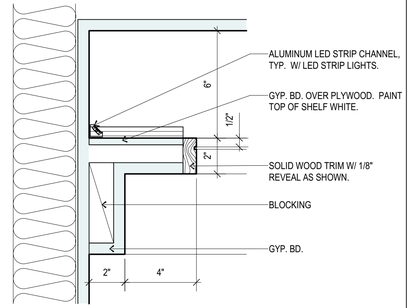
Drawn: MC
Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.: A-507

Date: 11/10/16 Time: 2:16:03 PM File name: Vets Hall_161024_DETAILS.vwx

15 NOT USED

11 NOT USED

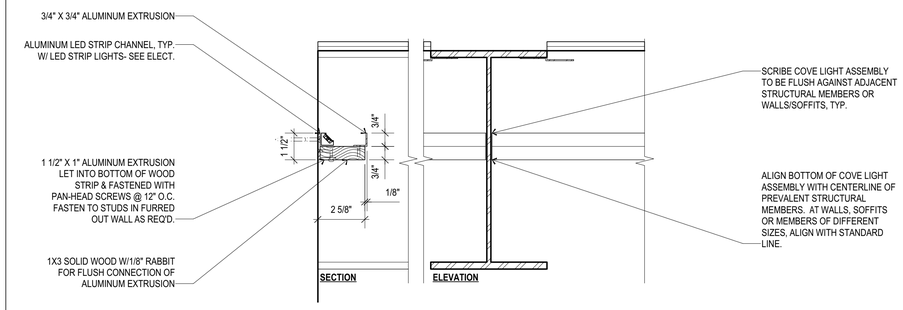
10 NOT USED



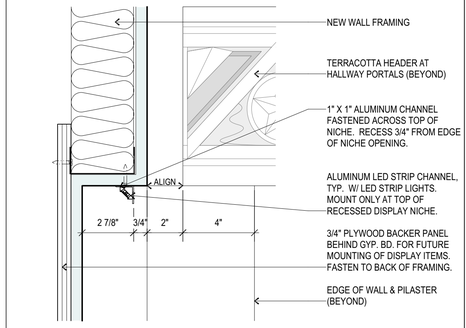
7 SECTION DTL: HALLWAY COVE LIGHT
Scale: 3" = 1'-0"

3 NOT USED

14 NOT USED

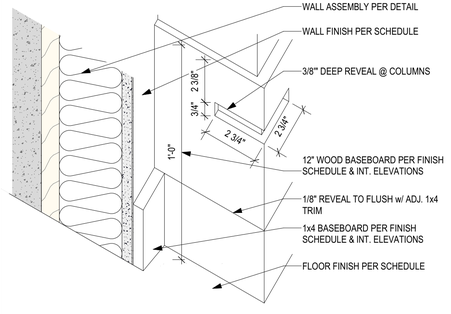


9 SECTION DTL: DINING HALL (RM # 003) COVE LIGHTING
Scale: 3" = 1'-0"

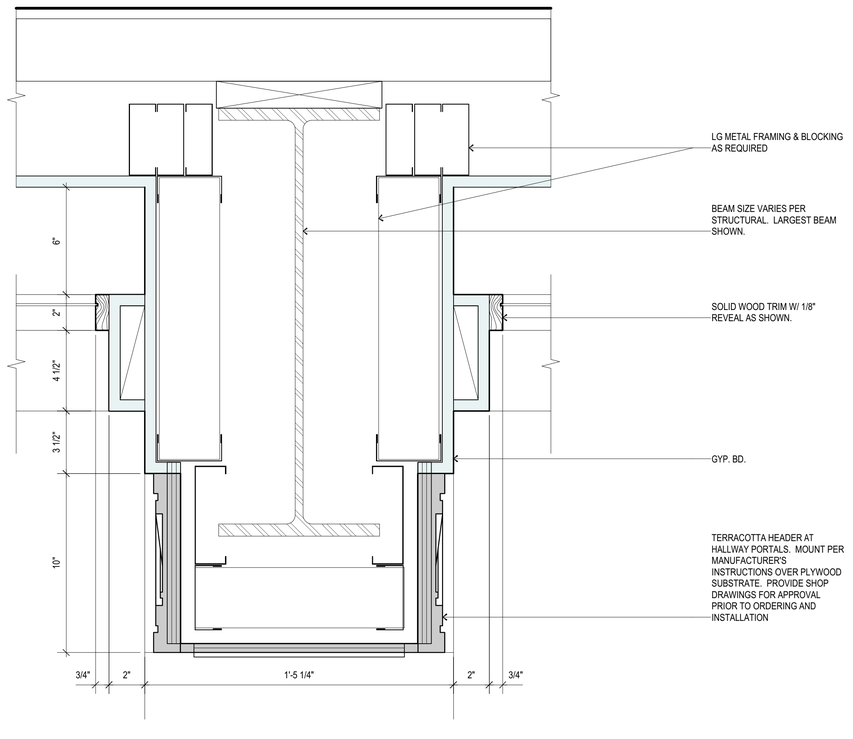


6 SECTION DTL: HEAD OF DISPLAY NICHE
Scale: 3" = 1'-0"

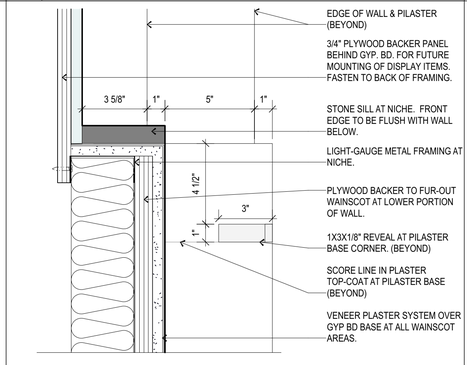
2 NOT USED



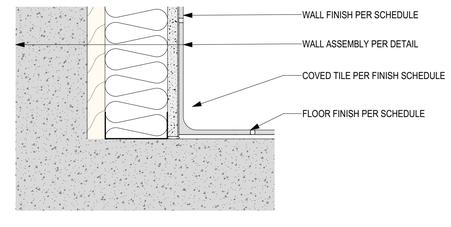
13 SECTION DTL: 4" & 12" WOOD BASEBOARD
Scale: 3" = 1'-0"



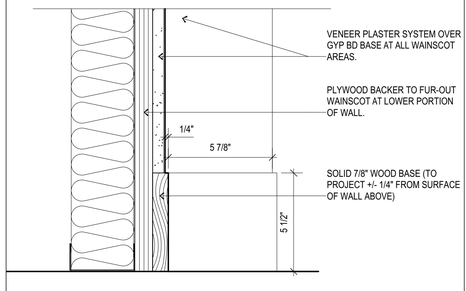
8 SECTION DTL: PORTAL HEADER BEAM
Scale: 3" = 1'-0"



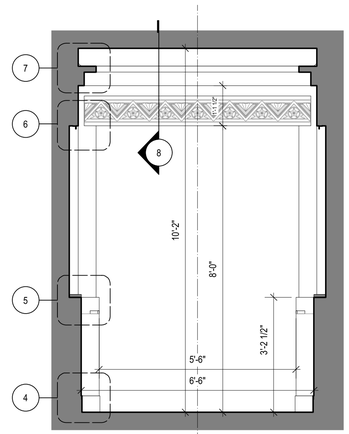
5 SECTION DTL: SILL OF DISPLAY NICHE
Scale: 3" = 1'-0"



12 SECTION DTL: COVED TILE BASE
Scale: 3" = 1'-0"



4 SECTION DTL: HALLWAY BASE
Scale: 3" = 1'-0"



1 SECTION DTL: HALLWAY (RM #018)
Scale: 1/2" = 1'-0"

Date: 11/10/16 Time: 2:16:03 PM File name: Vets Hall_181024_DETAILS.vwx

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Sheet Title
DETAILS - FINISHES

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn: MC
Reviewed: JJ/TH
Date: 11/10/16
Scale: Sheet Scale
Sheet No.
A-508

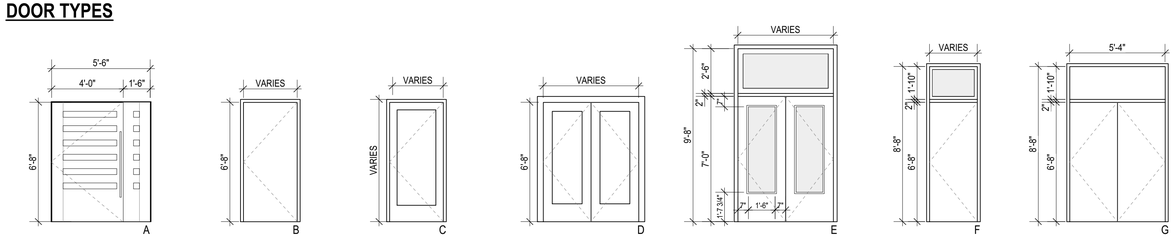
DOOR SCHEDULE

ID	STATUS	SIZE			STYLE										HARDWARE				ACCESSORIES		NOTES
# ROOM NAME(#)	EXISTING/NEW	WIDTH	HEIGHT	THICKNESS	TYPE	FUNCTION	EXT.	INT	MATERIAL	FINISH	LEAF	FRAME	TRANSOM	SIDELITE	GLAZING	FIRE RAT'G	LOCK TYPE	ELECT. ADA OPNR	PANIC	CLOSER	KICKPLATE	
001 ENTRY(018)	N	4'0"	6'8"	1 3/4"	A	SWING	X	-	BRONZE	CLR	FLUSH	METAL	-	X	X	1 1/2 HR	TBD	X	X	X	-	
002 HALL(011)	N	2'10"	6'8"	1 3/4"	B	SWING	X	-	BRONZE	CLR	FLUSH	METAL	-	-	-	1 1/2 HR	TBD	-	X	X	-	REVERSE SWING
003 KITCHEN(005)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
004 KITCHEN(005)	N	3'6"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
005 FURANCE ROOM(004)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
006 DINING HALL(003)	N	3'0"	6'8"	1 3/8"	J	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
007 DINING HALL(003)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	X	-	-	
008 DINING HALL(003)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	X	-	-	
009 DINING HALL(003)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	X	-	-	
010 DINING HALL(003)	N	3'0"	6'8"	1 3/8"	J	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
011 STORAGE(020)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
012 STORAGE(020)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
013 STORAGE(020)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
014 STORAGE(019)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
015 STORAGE(019)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
016 I.T.(017)	N	3'0"	6'8"	1 3/8"	J	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	-	-	-	
017 MECH(016)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
018 STORAGE(014)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
019 BAR(015)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	X	-	-	
020 BAR(015)	N	3'0"	4'10"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	3/4 HR	TBD	-	-	-	-	
021 STORAGE(013)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	1 HR	TBD	-	-	-	-	
022 BAR(015)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	X	-	-	
023 MEN'S TOILET(010)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	X	X	
024 JANITOR(009)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
025 WOMEN'S TOILET(008)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	X	X	
026 ELET.(007)	N	6'0"	6'8"	1 3/8"	D	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
101 LOBBY(101)	E	5'4"	7'0"	-	E	DBL SWING	X	-	BRONZE	CLR	FLUSH	METAL	X	-	X	-	TBD	-	X	X	-	STRIP (E) PAINT & REFURBISH BRONZE DOORS. REPLACE GLAZING.
102 LOBBY(101)	E	5'4"	7'0"	-	E	DBL SWING	X	-	BRONZE	CLR	FLUSH	METAL	X	-	X	-	TBD	-	X	X	-	STRIP (E) PAINT & REFURBISH BRONZE DOORS. REPLACE GLAZING.
103 LOBBY(101)	E	5'4"	7'0"	-	E	DBL SWING	X	-	BRONZE	CLR	FLUSH	METAL	X	-	X	-	TBD	-	X	X	-	STRIP (E) PAINT & REFURBISH BRONZE DOORS. REPLACE GLAZING.
104 ENTRY(109)	N	6'0"	7'0"	1 3/4"	E	DBL SWING	X	-	BRONZE	CLR	FLUSH	METAL	X	-	X	1 1/2 HR	TBD	X	X	X	-	
105 HALL(103)	E	2'8"	6'8"	-	F	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	-	-	-	
106 AMERICAN LEGION OFFICE(104)	N	3'0"	6'8"	1 3/8"	F	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	-	-	-	
107 MEN'S TOILET(105)	E	2'8"	6'8"	-	F	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	-	X	X	
108 STAIR HALL(102)	E	3'1 1/2"	3'2"	-	C	SWING	-	X	WOOD	STAIN	FLUSH	WOOD	-	-	-	-	TBD	-	-	-	-	66 1/2" ABOVE STAIR LANDING
109 BAR(108)	N	6'0"	6'8"	1 3/8"	G	DBL SWING	-	X	WOOD	STAIN	FLUSH	WOOD	X	-	-	-	TBD	-	-	-	-	
110 MEN'S LOUNGE(110)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
110X MEN'S LOUNGE(110)	N	5'4"	6'8"	1 3/8"	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
111 MEN'S LOUNGE(110)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
112 MEN'S LOUNGE(110)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
113 MEMORIAL HALL(111)	N	3'0"	6'8"	1 3/8"	H	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	V.I.F. DOOR WIDTH CLEARANCES
114 MEMORIAL HALL(111)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
115 MEMORIAL HALL(111)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
116 MEMORIAL HALL(111)	N	3'0"	6'8"	1 3/8"	H	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	V.I.F. DOOR WIDTH CLEARANCES
117 MEETING RM(112)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
118 MEETING RM(112)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
119 MEETING RM(112)	E	5'4"	6'8"	-	G	DBL SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	X	-	-	
120 LADIES LOUNGE(114)	E	5'4"	6'8"	-	I	DBL SWING	-	X	WOOD	STAIN	FLUSH	WOOD	X	-	X	-	TBD	-	-	-	-	
121 OFFICE(117)	E	2'8"	6'8"	-	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
122 W.C.(115)	E	3'0"	6'8"	-	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	X	X	
123 OFFICE(124)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
124 WOMENS TOILET (116)	E	2'8"	6'8"	-	F	SWING	-	X	WOOD	STAIN	REC	WOOD	X	-	-	-	TBD	-	-	X	X	
201 STORAGE(202)	N	2'8"	5'10 1/2"	1 3/4"	C	SWING	X	-	METAL	PTD	REC	METAL	-	-	-	-	TBD	-	-	X	-	
202 MECH(206)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
203 ELEV. LOBBY(205)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
204 STAIR HALL(201)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
205 MEETING RM(204)	N	3'0"	6'8"	1 3/8"	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
206 MEETING RM(204)	E	2'8"	6'8"	-	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	
207 STORAGE(202)	E	2'8"	6'8"	-	C	SWING	-	X	WOOD	STAIN	REC	WOOD	-	-	-	-	TBD	-	-	-	-	

WINDOW SCHEDULE

ID	STATUS	SIZE			STYLE					NOTES
# ROOM NAME(#)	EXISTING/NEW	WIDTH	HEIGHT	SILL HT	TYPE	OPERATION	TRANSOM	MATERIAL	GLASS	SAFETY	
001 HALL(011)	N	1'5"	3'0"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
002 KITCHEN(005)	N	1'5"	3'0"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
003 KITCHEN(005)	N	1'5"	1'8"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REDUCED WINDOW OPENING
004 KITCHEN(005)	N	1'5"	1'8"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REDUCED WINDOW OPENING
005 DINING HALL(003)	N	1'5"	3'0"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
006 DINING HALL(003)	N	1'5"	3'0"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
007 DINING HALL(003)	N	1'5"	3'0"	5'11"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
008 ENTRY(021)	N	1'5"	3'0"	5'9"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
009 ENTRY(018)	N	1'5"	3'0"	5'9"	A	CASEMENT	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
101 OFFICE(104)	E	2'6"	5'10"	2'5"	B	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
102 MEN'S TOILET(105)	E	2'5"	4'6"	4'7"	C	SINGLE HUNG	-	WOOD & VINYL	DBL	-	
103 BAR(108)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
104 BAR(108)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
105 BAR(108)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
106 BAR(108)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
107 BAR(108)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
108 ENTRY(109)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
109 ENTRY(109)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
110 ENTRY(109)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
111 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
112 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
113 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
114 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
115 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
116 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
117 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
118 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
119 MEN'S LOUNGE(110)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
120 MEMORIAL HALL(111)	E	5'9"	6'3 1/2"	3'2"	E	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
121 MEMORIAL HALL(111)	E	5'9"	6'3 1/2"	3'2"	E	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
122 MEMORIAL HALL(111)	E	5'9"	6'3 1/2"	3'2"	E	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
123 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
124 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
125 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
126 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
127 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
128 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
129 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
130 MEETING RM(112)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
131 HALL(113)	E	2'11"	4'6"	4'8"	F	SINGLE HUNG	-	WOOD & VINYL	DBL	-	
132 HALL(113)	E	2'11"	4'6"	4'8"	F	SINGLE HUNG	-	WOOD & VINYL	DBL	-	
133 HALL(113)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
134 HALL(113)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
135 LADIES LOUNGE(114)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
136 LADIES LOUNGE(114)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
137 LADIES LOUNGE(114)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
138 LADIES LOUNGE(114)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
139 LADIES LOUNGE(114)	E	2'11"	7'0"	2'4"	D	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
140 OFFICE(117)	E	2'6"	5'10"	2'5"	B	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
141 OFFICE(117)	E	2'6"	5'10"	2'5"	B	SINGLE HUNG	X	WOOD & VINYL	DBL	-	
201 STORAGE(202)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
202 ELEV. LOBBY(205)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
203 ELEV. LOBBY(205)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
204 STAIR HALL(201)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
205 MEETING ROOM(204)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
206 MEETING ROOM(204)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
207 MEETING ROOM(204)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
208 MEETING ROOM(204)	N	3'0"	3'0"	9'0"	G	HOPPER	-	ALUMINUM	DBL	-	REPLACEMENT WINDOW
209 ATRIUM(202)	E	9'4 1/2"	9'4 1/2"	-	H	FIXED SKYLIGHT	-	COPPER	DBL	-	REGLAZE & REFURBISH

DOOR TYPES

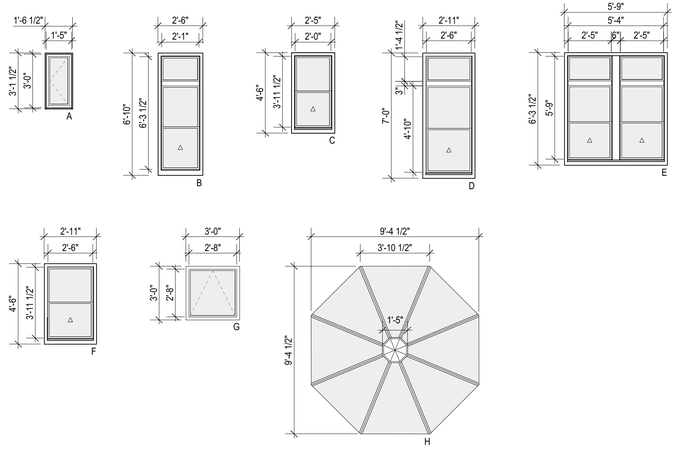


DOOR NOTES:

1. SEE SPECIFICATION FOR "DOORS, " "DOOR HARDWARE" AND OTHER RELATED SECTIONS FOR ADDITIONAL REQUIREMENTS.
2. VERIFY ALL DOOR SWING-HANDS PER PLAN. ELEVATIONS DEPICTED ABOVE DO NOT ACCOUNT FOR SWING DIRECTION
3. DIMENSIONS SHOWN ARE NOMINAL DOOR SIZES, CONTRACTOR SHALL VERIFY ALL ROUGH-OPENING REQUIREMENTS.
4. ALL GLAZING IN DOORS AND SIDELITES IS DUAL-PANE LABELED SAFETY GLAZING.
5. DOOR FINISH:
   A. REFINISH ALL EXISTING DOORS
   B. STAIN NEW FIR OR SIM. WOOD DOORS TO MATCH EXISTING
   C. DARK STATUARY AND LACQUERED BRONZE DOORS
6. PROVIDE RUBBER DOOR SILENCERS @ DOOR JAMBS WHERE NO OTHER GASKET OR WEATHER STRIPPING IS INCLUDED.
7. PROVIDE DOOR STOP (BASE-BOARD TYPE) @ EACH DOOR TO PREVENT DAMAGE TO ADJACENT WALL WHEN DOOR IS OPENED.
8. SOLID CORE INTERIOR DOORS HAVE NO ADDED UREA FORMALDEHYDE AND UTILIZE WHEAT STRAW LOW DENSITY FIBERBOARD.
9. LOCKSET TYPES TO BE DETERMINED IN CONSULTATION WITH THE ARCHITECT.
10. LOCKSETS TO BE SCHLAGE L SERIES MORTISE LOCKS OR EQUAL.
11. PROVIDE FULL WEATHERSTRIP & ADA THRESHOLD AT ALL EXTERIOR DOORS

11. DOOR ACCESSIBLITY
   A. ALL DOORS THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE FOLLOWING PER CBC 11B-404.
   B. CLEAR WIDTH OF PASSAGE DOORS SHALL BE 32 INCHES MIN. FROM FACE OF DOOR AND STOP AT 90° OPEN FOR SWING TYPE DOORS.
   C. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MIN.
   D. DOORS NOT PROVIDING FULL USER PASSAGE MAY HAVE CLEAR WIDTH OF 20 INCHES MIN.
   E. NO PROJECTIONS INTO CLEAR OPENING LOWER THAN 34" AFF AND THOSE BETWEEN 34" AND 80" AFF SHALL NOT EXCEED 4 INCHES.
   F. DOOR CLOSERS AND STOPS MAY BE 78 INCHES MINIMUM AFF.
   G. MANUVERING CLEARANCES SHALL COMPLY WITH 11B-404.2.4, SWINGING DOORS SHALL HAVE MIN. CLEARANCES PER TABLE 11B-404.2.4.1:
   H. FLOOR OR GROUND SURFACES WITHIN MANUVERING CLEARANCES SHALL COMPLY WITH 11B-302. SLOPES NOT STEEPER THAN 1:48 PERMITTED.
   I. THERSHOLDS, IF PROVIDED, SHALL BE 1/2" HIGH MAX AND COMPLY WITH 11B-302 AND 11B-303.
   J. DOORS IN SERIES SHALL HAVE 48" MIN. PLUS WIDTH OF DOOR SWINGING INTO SPACE.
   K. HARDWARE: HANDLES, PULLS, LATCHES, LOCKS, & OTHER OPERABLE PARTS SHALL COMPLY WITH 11B-309.4
   L. HEIGHT OF OPERABLE PARTS SHALL BE 34" MIN. AND 44" MAX. AFF OR GROUND.
   M. CLOSERS SHALL BE ADJUSTED SO THAT FROM 90° OPEN TO POSITION OF 12° FROM LATCH IS 5 SECONDS MINIMUM.
   N. SPRING HINGES SHALL BE ADJUSTED SO THAT FROM 70° OPEN POSITION TO CLOSED POSITION IS 1.5 SECONDS MINIMUM.
   P. THE FORCE FOR PUSHING OR PULLING OPEN DOORS SHALL BE 5 POUNDS MAXIMUM, NOT INCLUDING FORCE TO RETRACT LATCH OR OTHER DEVICE.
      EXCEPTIONS: 1. AT REQUIRED FIRE DOORS, CONSULT APPROPRIATE ADMIN. AUTHORITY FOR MIN. FORCE, AND MAX. FORCE SHALL NOT EXCEED 15 POUNDS.
      2. EXT. DOORS TO MACHINERY SPACES.
      3. WHEN AT A SINGLE LOCATION ONE OF EVERY EIGHT DOOR LEAFS IS A POWERED DOOR, SEE CODE SECTION FOR INFO.
   Q. SWINGING DOORS WITHIN 10 INCHES OF FINISHED FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE SMOOTH SURFACE ON PUSH-SIDE.
   R. SMOOTH SURFACES MAY HAVE JOINTS WITHIN 1/16" OF PLANE AND MUST BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES FROM KICK-PLATES CAPPED.
   S. DOORS AND SIDE LITES ADJACENT TO DOORS CONTAINING VIEW GLAZING <66" AFF SHALL HAVE BOTTOM OF AT LEAST ONE GLAZED PANEL 43" MAX. AFF.

WINDOW TYPES



WINDOW NOTES:

1. SEE SPECIFICATION FOR "ALUMINUM WINDOWS," AND OTHER RELATED SECTIONS FOR ADDITIONAL REQUIREMENTS.
2. VERIFY ALL DIMENSIONS IN THE FIELD.
3. A LL ALUMINUM WINDOWS: THERMALLY BROKEN
4. FRAME EXTERIOR COLOR: DARK BRONZE ANODIZED
5. GLAZING: DOUBLE GLAZED
6. WINDOW GLAZING SHALL BE SAFETY GLAZING PER

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Sheet Title
WINDOW & DOOR SCHEDULES

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. A-601

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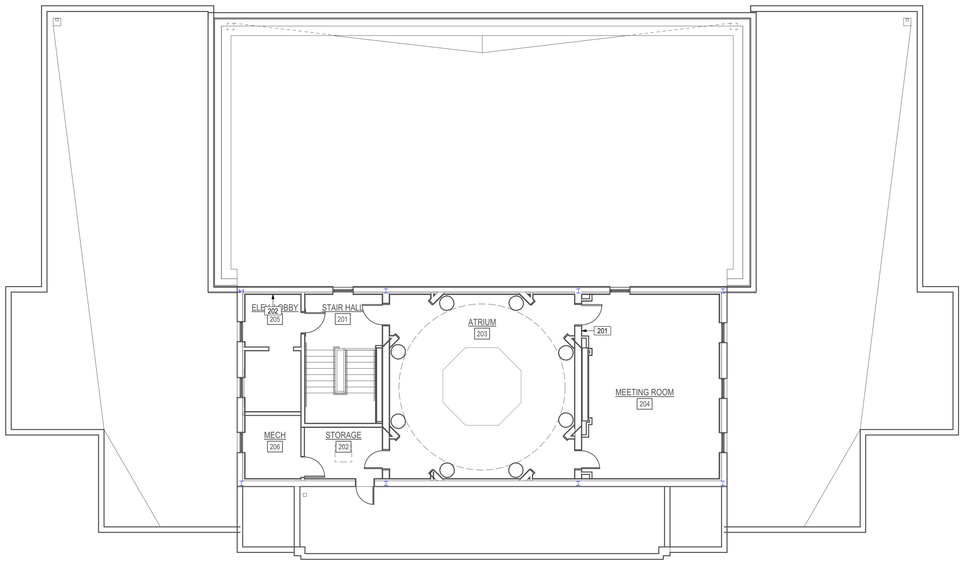


3 SIGN PLAN: MEZZANINE FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT N

SIGN SCHEDULE

ID #	SIGN TYPE	DETAIL	SIGN TEXT	NOTES
001A	RESTROOM DOOR	10/A-505	WOMEN	
001B	RESTROOM WALL	9/A-505	WOMEN	
002A	RESTROOM DOOR	12/A-505	MEN	
002B	RESTROOM WALL	11/A-505	MEN	
003	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
004	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
005	ISA ENTRY	7/A-505	ACCESSIBLE	
006	TACTILE EXIT ROUTE	8/A-505	EXIT ROUTE →	ARROW TO RIGHT
007	TACTILE EXIT	15/A-505	EXIT	
008	EXIT STAIR UP	16/A-505	EXIT STAIR UP	
009	TACTILE EXIT ROUTE	8/A-505	EXIT ROUTE →	ARROW TO RIGHT
010	ROOM NAME	5/A-505	-	VERIFY NAME W/ TENANT
011	ROOM NAME	5/A-505	-	VERIFY NAME W/ TENANT
101A	RESTROOM DOOR	12/A-505	MEN	
101B	RESTROOM WALL	11/A-505	MEN	
102A	RESTROOM DOOR	10/A-505	WOMEN	
102B	RESTROOM WALL	9/A-505	WOMEN	
103A	RESTROOM DOOR	14/A-505	RESTROOM	
103B	RESTROOM WALL	13/A-505	RESTROOM	
104	ROOM NAME	5/A-505	-	VERIFY NAME W/ TENANT
105	ROOM NAME	5/A-505	-	VERIFY NAME W/ TENANT
106	ROOM NAME	5/A-505	-	VERIFY NAME W/ TENANT
107	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
108	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
109	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
110	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
111	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
112	ISA ENTRY	7/A-505	ACCESSIBLE	
113	TACTILE EXIT ROUTE	8/A-505	EXIT ROUTE →	ARROW TO LEFT
114	EXIT STAIR DOWN	17/A-505	EXIT STAIR DOWN	
115	TACTILE EXIT ROUTE	8/A-505	EXIT ROUTE →	ARROW TO LEFT
116	TACTILE EXIT	15/A-505	EXIT	
201	MAXIMUM OCCUPANCY	6/A-505	-	VERIFY W/ OCCUPANT LOAD
202	TACTILE EXIT ROUTE	8/A-505	EXIT ROUTE →	ARROW TO RIGHT

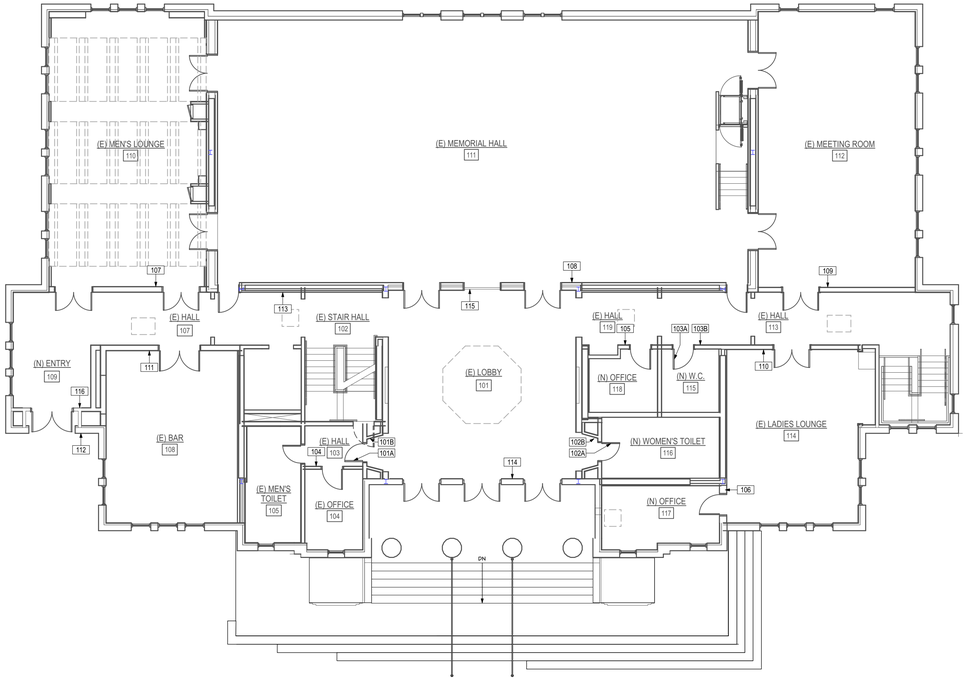
SHEET NOTES:

1. SIGN NUMBERS ARE FOR REFERENCE TO SIGNAGE SCHEDULE ONLY, THEY DO NOT RELATE TO ROOM NUMBERS OR ANY OTHER PURPOSE.

2. PROVIDE A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE PER SECTION 1007.10. THIS IS IN ADDITION TO ILLUMINATED EXIT SIGNS AND FLOOR-LEVEL EXIT SIGNS AS DEPICTED ON ELECTRICAL PLANS.

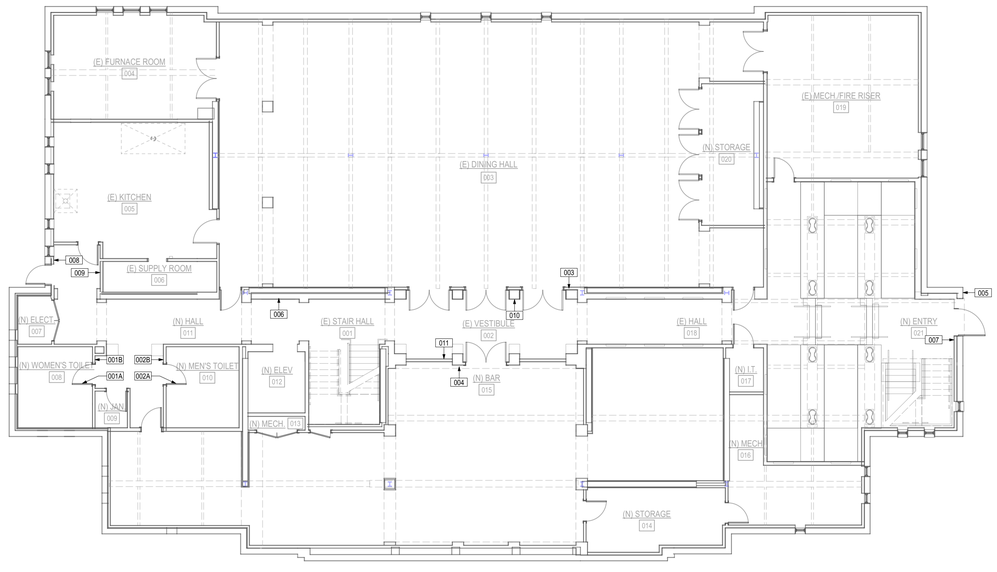
3. ENTRANCE SIGNS. ALL BUILDING AND FACILITY ENTRANCES THAT ARE ACCESSIBLE TO AND USABLY BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MIN. OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTION SIGNS, UTILITIZING THE SYMBOL, AT JUNCTIONS WHERE THE ACCESSIBLE ROUTH OF TRAVEL DIVERGES FROM THE REGULAR CIRCULATION PATH. TO BE VISIBLE TO PERSONS ALONG APPROACHING CIRCULATION PATH.

4. PROVIDE DIRECTIONAL SIGNAGE AT EXISTS SERVIING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS PER CBC 1007.10.



2 SIGN PLAN: FIRST FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT N



1 SIGN PLAN: BASEMENT FLOOR
Scale: 3/32" = 1'-0"

0 5 10 FT N

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Sheet Title: SIGN SCHEDULE

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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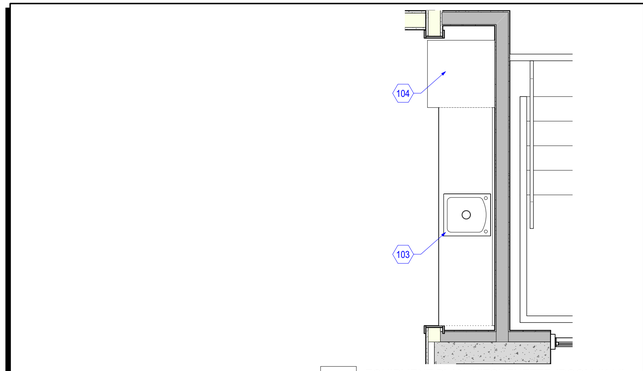
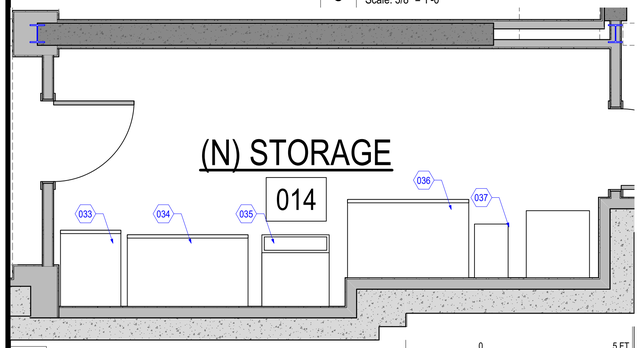


5 EQUIPMENT PLAN: KITCHENETTE (ROOM #114)
Scale: 3/8" = 1'-0"



4 EQUIPMENT PLAN: BASEMENT BAR STORAGE (ROOM #014)
Scale: 3/8" = 1'-0"

FOOD SERVICE EQUIPMENT KEY

ITEM #	DESCRIPTION	SIZE	MANUFACTURER	PRODUCT #	BASE	ELECTRICITY VOLT/HZ/PH/AMP	GAS BTU	WATER LINE	DRAIN	VENT	NOTES
001	Point of Sale										Provided by Tenant
002	Alcohol Display										Provided by Tenant
003	Hand sink							Hot/cold	Yes		See Plumbing Plans
004	Under counter cooler	24"Wx24.75"Dx32.75"H	True Food Service Equip., Inc.	TUC-24	Casters	115/60/1/2.5a					Provided by Tenant
005	Worktable	48"Wx24"Dx36"H	Elkay SSP	WT24S48-BGX	Floor Mounted						Provided by Tenant
006	Ice Bin	24"Wx19"Dx34.5"H									Existing
007	Shelving	57"Wx24"Dx36"H									
008	Microwave	22"Wx15"Dx14"H	Amana	RCS10TS	Surface Mounted	120/60/15a					Provided By Tenant
009	Undercounter dishwasher	24"Wx35"H	Kenmore					Hot/cold	Yes		Existing
010	3 Compartment- 2DB Sink	72"Wx18.25"Dx34.5"H	Krowne					Hot/cold	Yes		Existing
011	Shelving	57"Wx24"Dx36"H									
012	Underbar chiller	24.75"Wx26.75"Dx33.5"H	True Food Service Equip., Inc.	T-24-GC	Casters	115/60/1/2.6a					Provided by Tenant
013	Cooler	54.25"Wx36"Dx40"H	Perlick								Existing
014	Underbar Beer Dispenser	24"Wx27"Dx37.75"H	Superior Product Mfg		Casters						Exisitng
015	Refrigerator	54"Wx36"D	Traulsen						Yes		Existing
016	Clean Dish Table	60"Wx30"Dx44.75"H	Elkay	CDT-60-LX	Floor Mounted						NSF
017	Dishwasher	25.25"Wx25.25"Dx66.25"H	Ecolab	ES-2000				Hot/cold	Yes		See Plumbing Plans
018	Garbage Disposal		Ecolab		Sink mounted			Cold	Yes		See Plumbing Plans
019	Dirty Dish Table	48"Wx30"Dx44.75"H	Elkay	DDT-48-RX	Floor Mounted						NSF
020	3 Compartment- 2DB Sink	79"Wx79"Dx42"H	Advanced Tabco	94-K4-24D	Floor Mounted			Hot/cold	Yes		NSF, See Plumbing Plans
021	Work Table	36"Wx30"Dx38"H	Elkay	EWT30S36-STG-24X	Floor Mounted						NSF
022	Range	72"Wx30"D									Existing
023	Work Table	84"Wx30"Dx38"H	Elkay	EWT30S60-STG-24X	Floor Mounted						NSF
024	Work Table	48"Wx30"Dx38"H	Elkay	EWT30S60-STG-24X	Floor Mounted						NSF
025	Prep Sink	44.5"Wx29.8"Dx44.8"H	Elkay	1C18X24-R-24X	Floor Mounted			Hot/cold	Yes		NSF, See Plumbing Plans
026	Hand Sink	18"Wx14.5"Dx11"H	Elkay	EHS-18-S-LX	Wall Hung			Hot/cold	Yes		NSF, See Plumbing Plans
027	S.S. Wire Shelving	48"Wx18"Dx74"H	Focus Food Service	FF1848SSS & FG074SS	Floor Mounted						NSF
028	Freezer	28"Wx28"Dx64.5"H	Kenmore	106.8262510	Floor Mounted						Existing
029	Painted Wood Shelving	Varies			Built-in						Existing
030	Metal Work Table	116"Wx24"D			Floor Mounted						Existing
031	Metal Work Table	72"Wx30"D			Floor Mounted						Existing
032	Metal Work Table	72"Wx30"D			Floor Mounted						Existing
033	Cooler	27"Wx34"Dx84.5"H	McCall		Floor Mounted						Existing
034	Cooler	54"Wx32"Dx78"H	True Food Service Equip., Inc.		Floor Mounted						Existing
035	Ice Machine	30"Wx32"Dx74"H			Floor Mounted						Existing
036	Cooler	54.5"Wx35"Dx84"H			Floor Mounted						Existing
037	Trash Compactor	15"Wx24"Dx35"H	Lady Kenmore		Floor Mounted						Existing
101	Integral 3 Compartment, Sink/Ice Bin/Cut. Bd	118.25"Wx21.25"Dx30"H			Floor Mounted			Hot/cold	Yes		Existing, 9.5"Lx14"Bx8.5"D Sinks
102	Hand sink							Hot/cold	Yes		See Plumbing Plans
103	Sink							Hot/cold	Yes		See Plumbing Plans
104	Refrigerator	30"Wx30"Dx65.4"H	Kenmore	253.65812508	Floor Mounted						Existing

FOOD SERVICE FINISH MATERIAL NOTES:

1. FLOORS SHALL BE DURABLE, SMOOTH, AND IMPERVIOUS TO WATER, GREASE AND ACID, AND OF EASILY CLEANABLE CONSTRUCTION. (CALIFORNIA RETAIL FOOD CODE 114268(A))
2. FLOORS SHALL CONTINUE UP WALLS OR TOE-KICKS AT LEAST 4" FORMING AN INTEGRAL 3/8" MINIMUM RADIUS COVE. (CALIFORNIA RETAIL FOOD CODE 114268(B))
3. WHERE FLOOR DRAINS ARE REQUIRED, THE FLOOR SURFACES SHALL SLOPE AT A MINIMUM OF 1:50 (1/4" PER FOOT) TOWARDS THE FLOOR DRAIN. (CALIFORNIA RETAIL FOOD CODE 114269(A))
4. WALLS AND CEILINGS OF ALL AREAS (EXCEPT BAR AREAS, CONTAINERED FOOD STORAGE ROOMS, DINING AREAS, AND OFFICES) SHALL BE DURABLE, SMOOTH, NONABSORBENT, AND WASHABLE. (CALIFORNIA RETAIL FOOD CODE 114271(A & B))
5. WALLS AND CEILINGS IN FOOD PREPARATION, AND UTINSIL WASHING AREAS SHALL BE LIGHT COLORED.
6. ACOUSTICAL CEILING TILES MAY BE USED PROVIDED THEY MEET REQUIREMENTS SET FORTH IN CALIFORNIA RETAIL FOOD CODE 114271.
7. WALLS BEHIND SINKS AND DISHTABLES SHALL BE COVERED WITH A DURABLE WATERPROOF MATERIAL EXTENDING FROM THE TOP OF THE COVED BASE TO AT LEAST 12" ABOVE BACKSPLASH.
8. WALLS ADJACENT TO FLOOR MOUNTED MOP SINKS SHOULD BE COVERED WITH A DURABLE WATERPROOF MATERIAL EXTENDING FROM THE TOP OF THE SINK TO AT LEAST 48" ABOVE THE FLOOR. (CURFFL 114155)
9. PROVIDE A DURABLE, CLEANABLE, SMOOTH, NONCORRODIBLE AND NONFLAMMABLE MATERIAL BEHIND COOK LINES AND ANY ADJACENT SIDEWALLS, OR THOSE IN CLOSE PROXIMITY. (CURFFL 114155)

FOOD SERVICE PLUMBING NOTES:

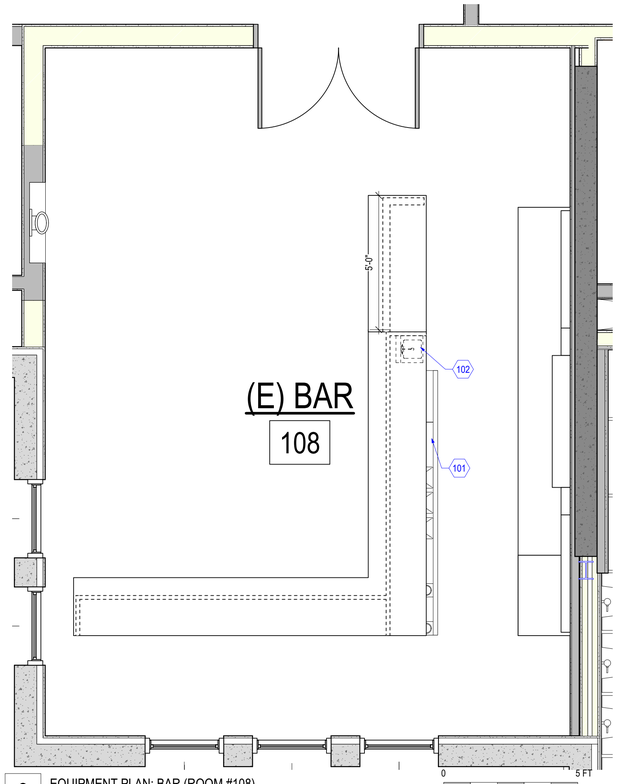
1. ALL PLUMBING AND PLUMBING FIXTURES SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE LOCAL PLUMBING ORDINANCES, SHALL BE MAINTAINED SO AS TO PREVENT ANY CONTAMINATION AND SHALL BE KEPT CLEAN, FULLY OPERATIVE AND IN GOOD REPAIR. (CRFC 114190)
2. AN ADEQUATE, PROTECTED, PRESSURIZED, POTABLE SUPPLY OF HOT WATER AND COLD WATER SHALL BE PROVIDED. HOT WATER SHALL BE SUPPLIED AT A MINIMUM TEMPERATURE OF AT LEAST 120ºF MEASURED FROM THE FAUCET, UNLESS OTHERWISE SPECIFIED IN THIS PART. THE WATER SUPPLY SHALL BE FROM A WATER SYSTEM APPROVED BY THE HEALTH OFFICER OR THE LOCAL ENFORCEMENT AGENCY. (CRFC 114192 A)
3. ANY HOSE USED FOR CONVEYING POTABLE WATER SHALL BE CONSTRUCTED OF NONTOXIC MATERIALS, SHALL BE USED FOR NO OTHER PURPOSE, AND SHALL BE CLEARLY LABELED AS TO ITS USE. THE HOSE SHALL BE STORED AND USED SO AS TO BE KEPT FREE OF CONTAMINATION. (CRFC 114192 B)
4. THE POTABLE WATER SUPPLY SHALL BE PROTECTED WITH A BACKFLOW OR BACK SIPHONAGE PROTECTION DEVICE WHEN REQUIRED BY APPLICABLE PLUMBING CODES. EXPOSED PIPING OF A NONPOTABLE WATER SYSTEM SHALL BE IDENTIFIED SO THAT IT IS READILY DISTINGUISHABLE FROM PIPING THAT CARRIES POTABLE WATER. (CRFC 114192 C)
5. WATER UNDER PRESSURE SHALL BE PERMANENTLY PLUMBED TO ALL FIXTURES, EQUIPMENT, & NON-FOOD EQUIPMENT THAT ARE REQUIRED TO USE WATER. (CRFC 114192.1 A)
6. WATER UNDER PRESSURE SHALL BE PROVIDED AT A SUFFICIENT LEVEL AS SPECIFIED BY THE UNIFORM PLUMBING CODE & MANUFACTURERERS SPECIFICATIONS FOR EQUIPMENT & FIXTURES IN THE FOOD FACILITY. (CRFC 114192.1 B)
7. ALL STEAM TABLES, ICE MACHINES AND BINS, FOOD PREPARATION SINKS, WAREWASHING SINKS, DISPLAY CASES, WALK-IN REFRIGERATION UNITS, AND OTHER SIMILAR EQUIPMENT THAT DISCHARGE LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES, AND ALL WASTES DRAINED BY THEM SHALL DISCHARGE THROUGH AN AIRGAP INTO A FLOOR SINK OR OTHER APPROVED TYPE OF RECEPTOR. (CRFC 114193 A)
8. DRAINAGE FROM REACH-IN REFRIGERATION UNITS SHALL BE CONDUCTED IN A SANITARY MANNER TO A FLOOR SINK OR OTHER APPROVED DEVICE BY AN INDIRECT CONNECTION OR TO A PROPERLY INSTALLED AND FUNCTIONING EVAPORATOR. (CRFC 114193B)
9. INDIRECT WASTE RECEPTORS SHALL BE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. (CRFC 114193 C)
10. WAREWASHING MACHINES MAY BE CONNECTED DIRECTLY TO THE SEWER IMMEDIATELY DOWNSTREAM FROM A FLOOR DRAIN, OR THEY MAY BE DRAINED THROUGH AN APPROVED INDIRECT CONNECTION. (CRFC 114193 D)
11. AN AIR GAP BETWEEN THE WATER SUPPLY INLET AND THE FLOOD LEVEL RIM OF THE PLUMBING FIXTURE, EQUIPMENT, OR NONFOOD EQUIPMENT SHALL BE AT LEAST TWICE THE DIAMETER OF THE WATER SUPPLY INLET AND MAY NOT BE LESS THAN ONE INCH. (CRFC 114193.1)
12. HANDWASHING FACILTIIES SHALL BE EQUIPPED TO PROVIDE WARM WATER UNDER PRESSURE FOR A MINIMUM OF 15 SECONDS THROUGH A MIXING VALVE OR COMBINATION FAUCET. (CFRC 113953 C)
13. EQUIPMENT COMPARTMENTS THAT ARE SUBJECT TO ACCUMULATION OF MOISTURE DUE TO CONDITIONS SUCH AS CONDENSATION, FOOD OR BEVERAGE DRIP, OR WATER FROM MELTING ICE, SHALL BE SLOPED TO AN OUTLET TO ALLOW FOR COMPLETE DRAINING. (CRFC 114199)

FOOD SERVICE GENERAL NOTES:

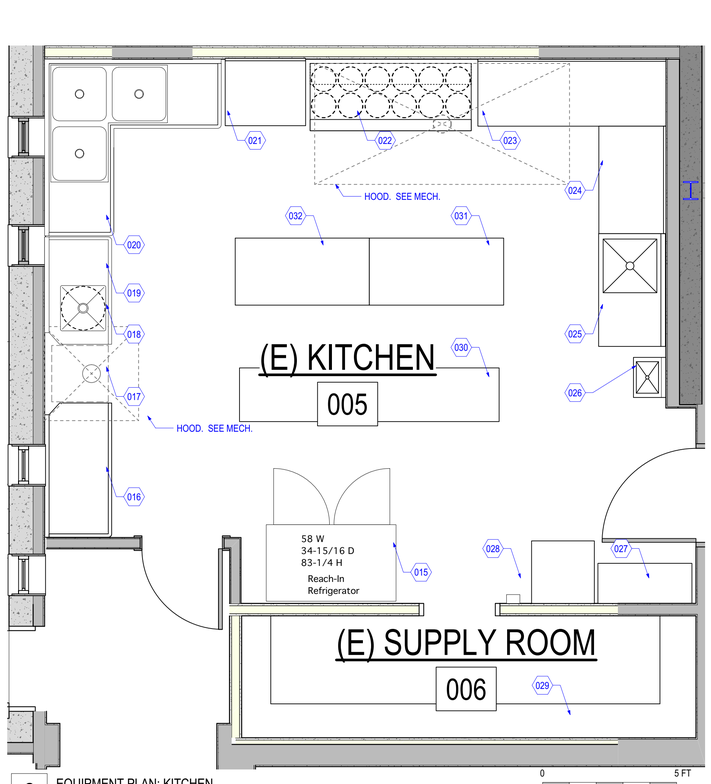
1. NEW TRASH & RECYCLING ENCLOSURE FOR THE BUILDING LOCATED AT REAR (ALLEY) SIDE OF BUILDING.
2. EACH FOOD FACILITY SHALL BE PROVIDED WITH ANY FACILITIES AND EQUIPMENT NECESSARY TO STORE OR DISPOSE OF ALL WASTE MATERIAL. A RECEPTACLE SHALL BE PROVIDED IN EACH AREA OF THE FOOD FACILITY OR PREMISES WHERE REFUSE IS GENERATED OR DISCARDED, OR WHERE RECYCLABLES ARE PLACED. (CRFC 114244)
3. GARBAGE MUST BE DISPOSED INTO ADEQUATE, WATERTIGHT, NON-ABSORBENT, RODENT-PROOF CONTAINERS WITH CLOSE-FITTING LIDS. IF PROVIDED, AN OUTDOOR STORAGE AREA OR ENCLOSURE USED FOR REFUSE, RECYCLABLES, AND RETURNABLES MUST BE CONSTRUCTED OF NONABSORBENT MATERIAL, SUCH AS CONCRETE OR ASPHALT, AND MUST BE EASILY CLEANABLE, DURABLE AND SLOPED TO DRAIN. (CRFC 114245)
4. FOOD STORAGE PER CFRC 114047:
(A) ADEQUATE AND SUITABLE SPACE SHALL BE PROVIDED FOR THE STORAGE OF FOOD. (B) EXCEPT AS SPECIFIED IN SUBDIVISIONS (C) AND (D), FOOD SHALL BE PROTECTED FROM CONTAMINATION BY STORING THE FOOD IN A CLEAN, DRY LOCATION, WHERE IT IS NOT EXPOSED TO SPLASH, DUST, VERMIN, OR OTHER FORMS OF CONTAMINATION OR ADULTERATION, AND AT LEAST SIX INCHES ABOVE THE FLOOR. (C) FOOD IN PACKAGES AND WORKING CONTAINERS MAY BE STORED LESS THAN SIX INCHES ABOVE THE FLOOR ON CASE LOT HANDLING EQUIPMENT AS SPECIFIED UNDER SECTION 114165. (D) PRESSURIZED BEVERAGE CONTAINERS, CASED FOOD IN WATERPROOF CONTAINERS SUCH AS BOTTLES OR CANS, AND MILK CONTAINERS IN PLASTIC CRATES MAY BE STORED ON A FLOOR THAT IS CLEAN AND NOT EXPOSED TO MOISTURE.
5. FOOD DISPLAY PER CRFC 114060:
(A) EXCEPT FOR NUTS IN THE SHELL AND WHOLE RAW FRUITS AND VEGETABLES THAT ARE INTENDED FOR HULLING, PEELING, OR WASHING BY THE CONSUMER BEFORE CONSUMPTION, FOOD ON DISPLAY SHALL BE PROTECTED FROM CONTAMINATION BY THE USE OF PACKAGING, COUNTER, SERVICE LINE, OR SNEEZE GUARDS THAT INTERCEPT A DIRECT LINE BETWEEN THE CONSUMER'S MOUTH AND THE FOOD BEING DISPLAYED, CONTAINERS WITH TIGHT-FITTING SECURELY ATTACHED LIDS, DISPLAY CASES,MECHANICAL DISPENSERS, OR OTHER EFFECTIVE MEANS.
6. WHEN A SINK IS INSTALLED NEXT TO A WALL, THE INTEGRAL METAL BACKSPLASH SHALL BE SEALED TO THE WALL. (CALCODE 114271)
7. EACH HANDWASHING FACILITY MUST BE PROVIDED WITH DISPENSERS OF HANDWASHING CLEANSER & SANITARY SINGLE-USE TOWELS. (CALCODE 113953)
8. EACH HANDWASHING FACILITY SHALL BE SEPARATED FROM THE WAREWASHING SINK BY A METAL SPLASHGUARD WITH A HEIGHT OF AT LEAST 6", THAT EXTENDES FROM THE BACK EDGE OF THE DRAINBOARD TO THE FRONT OF THE DRAINBOARD, THE CORNERS OF THE BARRIER TO BE ROUNDED. NO SPLASH GUARD IS REQ'D IF THE DISTANCE BETWEEN THE HADWASHING SINK AND THE WAREWASHING SINK DRAINBOARDS IS 24" OR MORE.
9. ALL EQUIPMENT TO BE INSTALLED PER CRFC 114169.
10. LIGHTING INTENSITY TO COMPLY WITH CRFC 114252.
    a. AT LEAST 10-FOOT CANDLES FOR THE FOLLOWING:
        1. AT 30" ABOVE THE FLOOR, IN WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE AREAS.
        2. INSIDE EQUIPMENT, SUCH AS REACH-IN OR UNDER-THE COUNTER REFRIGERATORS.
    b. AT LEAST 20-FOOT CANDLES FOR TEH FOLLOWING:
        1. AT A SURFACE WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE OR WHERE FRESH PRODUCE OR PREPACKED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION.
        2. IN SERVER STATIONS WHERE FOOD IS PREPARED.
        3. AT A DISTANCE OF 30 INCHES ABOVE TEH FLOOR IN AREAS USED FOR HANDWASHING, WAREWASHING, AND EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS.
        4. IN ALL AREAS AND ROOMS DURING PERIODS OF CLEANING.
    c. EXCEPT IN SERVER STATIONS, WHERE FOOD IS PREPARED, AT LEAST 50-FOOT CANDLES AT A SURFACE WHERE FOOD EMPOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS AND EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR.

ACCESSIBILITY NOTES:

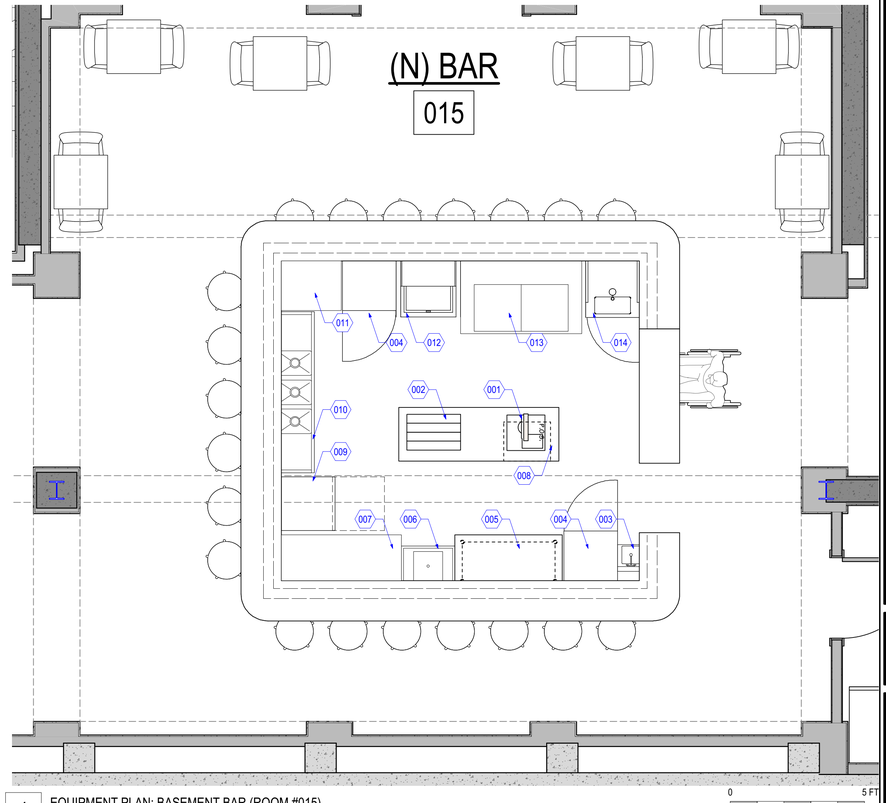
1. THE NOTES INCLUDED HERE ARE PROVIDED FOR GENERAL REFERENCE, HOWEVER ALL APPLICABLE CODES AND REGULATIONS PER 2013 CA BLDG CODE CH.11B ARE REQUIRED EVEN IF NOT LISTED BELOW.
2. MAINTENANCE OF ACCESSIBLE FEATURES: A PUBLIC ACCOMODATION SHALL MAINTAIN IN OPERABLE WORKING CONDITION THOSE REQUIRED FACILITIES, EXCEPT ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE OR ACCESSIBILITY DUE TO MAINTENANCE OR REPAIRS SHALL BE PERMITTED PER CBC 11B-108.
3. REFER TO TITLE SHEET CODE REVIEW RELATED TO ACCESSIBLE ROUTES AND MEANS OF EGRESS.
4. DINING SURFACES: AT LEAST 5 PERCENT OF THE SEATING SPACES AND STANDING SPACES AT THE DINING SURFACES SHALL COMPLY WITH CBC 11B-902 AND SHALL BE DISPERSED THROUGHOUT THE SPACE OR FACILITY FOR EACH TYPE OF SEATING IN A FUNCTIONAL AREA. WHERE FOOD OR DRINK IS SERVED FOR CONSUMPTION AT A COUNTER EXCEEDING 34 INCHES IN HEIGHT, A PORTION OF THE MAIN COUNTER 60 INCHES MIN. IN LENGTH SHALL BE PROVIDED IN COMPLIANCE WITH CBC 11B-902.3.
5. PER CBC 11B-902, DINING SURFACES REQUIRED TO BE ACCESSIBLE SHALL HAVE CLEAR FLOOR SPACE COMPLYING WITH CBC 11B-305 POSITIONED FOR FORWARD APPROACH, AND KNEE AND TOE CLEARANCES PER CBC 11B-306. HEIGHT OF DINING SURFACE TOPS SHALL BE 28 INCHES MINIMUM AFF AND 34 INCHES MAX AFF.
6. SPACES AND ELEMENTS WITHIN THE EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO COMPLY WITH CBC 11B-206.2.8, 1B-207.1, AND 11B-215.3 AND SHALL BE DESIGNED AND CONSTRUCTED SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER, AND EXIT THE EMPLOYEE WORK AREA.
7. EMPLOYEE WORK AREAS SHALL COMPLY WITH CBC 11B-402, EXCEPT COMMON USE CIRCULATION PATHS LOCATED WITHIN EMPLOYEE WORK AREAS THAT ARE AN INTEGRAL COMPONENT TO THE WORK AREA EQUIPMENT, OR WHERE THE COMMON USE CIRCULATION PATHS ARE LOCATED WITHIN EXTERIOR WORK AREAS FULLY EXPOSED TO THE WEATHER.



3 EQUIPMENT PLAN: BAR (ROOM #108)
Scale: 3/8" = 1'-0"



2 EQUIPMENT PLAN: KITCHEN
Scale: 3/8" = 1'-0"



1 EQUIPMENT PLAN: BASEMENT BAR (ROOM #015)
Scale: 3/8" = 1'-0"

Date: 11/18/16 Time: 2:01:37 PM File name: Vets Hall_161107_CD.vwx

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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title
FOOD SERVICE EQUIPMENT SCHEDULE

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn MC | Reviewed JJ/TH
Date 11/10/16
Scale Sheet Scale
Sheet No. A-603

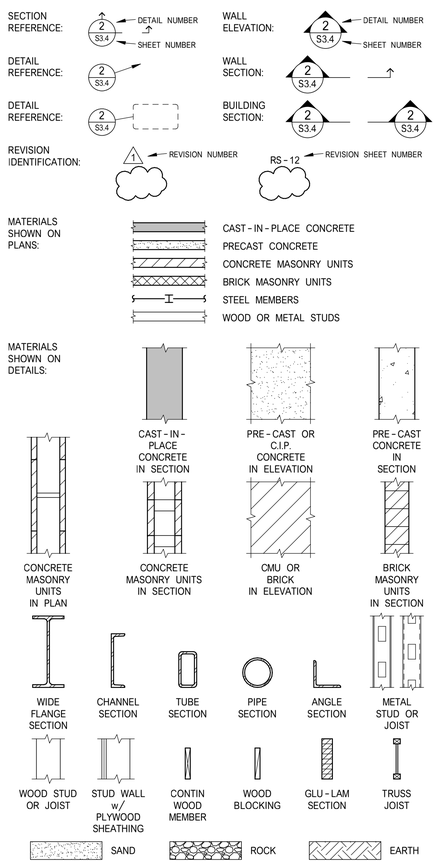
HUMBOLDT COUNTY
VETERANS MEMORIAL BUILDING

1020 H STREET, EUREKA, CA 95501

ABBREVIATIONS

A.B.	Anchor Bolt	F.O. CONC	Face of Concrete	P.D.F.	Powder Driven Fastener
ACI	American Concrete Institute	F.O. MAS	Face of Masonry	P.D.P.	Powder Driven Pin
A.D.	Area Drain	F.O. STUD	Face of Stud	PL	Property Line or Plate
ADDL	Additional	FRMG	Framing	PLF	Pounds per Linear Foot
ADJ	Adjacent	F.S.	Far Side	PLY	Plywood
A.F.F.	Above Finish Floor	FT	Foot or Feet	PLYWD	Plywood
AISC	American Institute of Steel Construction	FTG	Footing	P.J.P.	Partial Joint Penetration
ALT	Alternate			PSF	Pounds per Square Foot
APPROX	Approximately	GA	Gage	PSI	Pounds per Square Inch
ARCH	Architect or Architecutral	GALV	Galvanized	PSL	Parallel Strand Lumber
ASPH	Asphalt	G.B.	Grade Beam	P/T	Post-Tensioned
ASTM	American society of Testing and Materials	GLB	Glued Laminated Beam	P.T.	Pressure Treated
A.C.	Asphaltic Concrete, Air Condition	GLC	Glued Laminated Column	P.T.D.F.	Pressure Treated Douglas Fir
		GR	Grage		
BAL	Balance	GYP	Gypsum	R	Radius
B.L.	Bottom Lower			R.D.	Roof Drain
BLDG	Building	HDR	Header	RDWD	Redwood
BLK	Block	HGR	Hanger	REF	Reference
BLKG	Blocking	HK	Hook	REINF	Reinforcing
BM	Beam	HORIZ	Horizontal	REQD	Required
B.O.	Bottom of	H.P.	Hight Point	REV	Revision
BOT	Bottom	H.R.	Hard Rock	RF	Roof
B.P.	Break Point	HSS	Hollow Steel Structure	RM	Room
BRD	Board	HT	Height	R.O.	Rough Opening
BRG	Bearing				
BRKT	Bracket	I	Moment of Inertia	S	Section Modulus
BTWN	Between	I.D.	Inside Diameter	S.A.D.	See Architectural Drawings
B.U.	Bottom Upper	I.F.	Inside Face	S.C.D.	See Civil Drawings
		INFO	Information	SCHED	Schedule
C	Channel	INSUL	Insulation	S.E.D.	See Eletrical Drawings
CBC	California Building Code	INT	Interior	SF	Squre Feet
C.I.P.	Cast In Place			SHT	Sheet
C.J.	Construction or Control Joint	JST	Joist	SHTG	Sheathing
CLG	Ceiling	JT	Joint	SIM	Similar
CL	Center Line			S.J.	Shrinkage Joint, Seismic Joint or Slip Joint
CLR	Clear	KIPS	1000 Pounds	S.L.D.	See Landscape Drawings
CMU	Concrete Masonry Unit	KSF	KIPS Per Square Foot	S.M.D.	See Mechanical Drawings
COL	Column			S.M.F.	Special Moment Frames
CONC	Concrete	L	Angle	S.M.S.	Sheet Metal Screw
CONN	Connection	LBS	Pounds	S.O.G.	Slab On Grade
CONSTR	Construction	LL	Live Load	SP	Space or Spacing
CONTIN	Continuous	LLH	Long Leg Horizontal	S.P.D.	See Plumning Drawings
C.J.P.	Complete Joint Penetration	LLV	Long Led Vertical	SPEC	Specification
CTR	Center	LONGIT	Longitudinal	SQ.	Square
CTRD	Centered	L.P.	Low Point	S.S.D.	See Structural Drawings
CTRSNK	Countersink	L.S.	Low Shrinkage	STAGG	Staggered
		LSL	Laminated Strand Lumber	STD	Standard
d	Penny weight	LT	Light	STIFF	Stiffener
DBL	Double	LVL	Laminated Veneer Lumber	STL	Steel
DEPR	Depression	LTWT	Light Weight	STRUCT	Structural
D.F.	Douglas Fir			SYM	Symmetric
DIA or	Diameter	MACH	Machine		
DIAG	Diagonal	MAS	Masonry	T & B	Top and Bottom
DIM	Dimension	MATL	Material	T & G	Tongue and Groove
DL	Dead Load	MAX	Maximum	T.B.	Tie Beam
DN	Down	M.B.	Machine Bolt	THK	Thick
do	Ditto	MC	Miscellaneous Channel	THRU	Through
D.W.F.	Deformed Wire Fabric	M.D.	Mid-depth	T.L.	Top Lower
DWG	Drawing	MECH	Mechanical	T.O.	Top Of
		M.F.	Moment Frame	T.O. CONC	Top of Concrete
(E)	Existing	MFR	Manufacturer	T.O. PAR	Top of Parapet
EA	Each	MIN	Minimum	T.O. PLY	Top of Plywood
E.F.	Each Face	MISC	Miscellaneous	T.O. PL	Top of Plate
E.J.	Expansion Joint	MTL	Metal	T.O. SLAB	Top of Slab
EL	Elevation			T.O. STL	Top of Wall
ELEC	Electrical	(N)	New	TRANS	Transverse
ELEV	Elevator	N.A.	Not Applicable	TS	Tube Steel
EMBED	Embedment	N.I.C.	Not In Contract	T.U.	Top Upper
E.N.	Edge Nail	NO.	Number	TYP	Typical
ENCL	Enclosure	N.P.	No Profile		
ENGR	Engineer	N.S.	Near Side	UBC	Uniform Building Code
E.O.	Edge of	N.T.S.	Not To Scale	U.N.O.	Unless Noted Otherwise
E.O. MAS	Edge of Masonry				
E.O. PL	Edge of Plate	o.c.	On Center	V.B.	Vapor Barrier
E.O. SLAB	Edge of Slab	O.D.	Outside Diameter	VENT	Ventilation
EQ	Equal	O.F.	Outside Face	VERT	Vertical
EQPT	Equipment	O.H.	Opposite Hand	V.I.F.	Verify In Field
E.W.	Each Way	OPNG	Opening		
EXP	Expansion	OPP.	Opposite	W	Wide Flange
EXT	Exterior	OSB	Oriented Strand Board	w/	With
		O.W.S.G.	Open Web Steel Girder	w/o	Without
F.D.	Floor Drain	O.W.S.J.	Open Web Steel Joist	WD	Wood
FDN	Foundation			WF	Wide Flange
F.F.	Finish Floor	PAR	Parapet	W.P.	Work Point
FIN	Finish	PC	Piece	W.P.J.	Weakened Plan Joint
FLR	Floor	P/C	Precast	WT	Weight or Structural T
F.O.	Face of	PCF	Pound per Cubic Foot	W.W.F.	Welded Wire Fabric

SYMBOLS



SHEET INDEX

#	TITLE	PERMIT SET	PLAN CHECK SET
S0.1	TITLE PAGE & SHEET INDEX	√	√
S1.1	GENERAL NOTES	√	√
S1.2	GENERAL NOTES	√	√
S1.3	GENERALNOTES	√	√
S1.4	TYPICAL CONCRETE DETAILS	√	√
S2.1	FOUNDATION PLAN	√	√
S2.2	FIRST FLOOR FRAMING PLAN	√	√
S2.3	ROOF & MEZZANINE & FLOOR FRAMING PLAN	√	√
S2.4	ROOF & DOME FRAMING PLANS	√	√
S3.1	FOUNDATION DETAILS & SCHEDULE	√	√
S3.2	WALL SECTIONS	√	√
S3.3	DETAILS	√	√
S4.1	EXTERIOR BUILDING ELEVATIONS	√	√
S4.2	EXTERIOR BUILDING ELEVATIONS	√	√
S4.3	EXTERIOR BUILDING ELEVATIONS	√	√
S4.4	EXTERIOR BUILDING ELEVATIONS	√	√
S4.5	EXTERIOR BUILDING ELEVATIONS	√	√
S4.6	EXTERIOR BUILDING ELEVATIONS	√	√
S4.11	INTERIOR BUILDING ELEVATIONS	√	√
S4.12	INTERIOR BUILDING ELEVATIONS	√	√
S4.13	INTERIOR BUILDING ELEVATIONS	√	√
S4.14	INTERIOR BUILDING ELEVATIONS	√	√
S4.15	INTERIOR BUILDING ELEVATIONS	√	√
S4.16	INTERIOR BUILDING ELEVATIONS	√	√
S4.20	CONCRETE REPAIR DETAILS	√	√
S4.21	SHEAR WALL DETAILS	√	√
S4.22	SHEAR WALL DETAILS	√	√
S5.1	FLOOR FRAMING DETAILS	√	√
S5.2	FLOOR FRAMING DETAILS	√	√
S5.3	FLOOR FRAMING DETAILS	√	√

ISSUE LOG KEY
' √ ' ISSUED AS PART OF A SET
' — ' NOT A PART OF ISSUED SET
' * ' ISSUED FOR INFORMATION ONLY
' o ' PREVIOUSLY SUBMITTED FOR PLAN CHECK & PROVIDED FOR INFORMATION ONLY

ISSUE LOG — DATE: 03-01-2016, 11-10-2016

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REGISTERED PROFESSIONAL ENGINEER
BLAKE W. DILSWORTH
No. 3929
STRUCTURAL
STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

Sheet Title: TITLE PAGE & SHEET INDEX

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes
1			
2			
3			
4			
5			
6			

Drawn: HZ | Reviewed: DR
Date: NOVEMBER 10, 2016
Scale: NONE
Sheet No.: S0.1

11/14/2016 11:54:00 AM

11.10.2016 - PLAN CHECK SET

GENERAL NOTES

GENERAL

Dimensions refer to rough concrete surfaces, face of studs, face of concrete block, top of sheathing, or top of slab, unless otherwise indicated. The Contractor shall verify all dimensions prior to the start of construction. The Architect shall be notified of any discrepancies or inconsistencies.

All drawings are considered to be a part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any code requirements shall be corrected by the Contractor at his own expense and at no expense to the owner or Architect.

Notes and details on the structural drawings shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.

All work shall conform to the minimum standards of the following codes:

2013 California Building Code, which comprises Title 24, Part 2 of the California Code of Regulations, as adapted by the California Building Standards Commission referred to here as "The California Building Code, 2013 Edition" or "the code", and any other regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety, and those additional codes and standards including, but not limited to, the following incorporated codes listed below, and in these structural notes and specifications.

Aluminum Association: ADM 1-10, Aluminum Design Manual

American Society of Civil Engineers: ASCE 7-10 Minimum Design Loads for Buildings and Other Structures including Supplement No. 1 and No. 2

American Concrete Institute (ACI): ACI-318-11 Bldg. Code Requirements for Structural Concrete and Requirements for Structural Concrete and Commentary

American Concrete Institute (ACI): ACI-530-11 Building Code Requirements for Masonry Structures (TMS 402-11) & ACI-530.1-11 Specifications for Masonry Structures (TMS 602-11)

American Institute of Steel Construction (AISC): AISC 325-11 Steel Construction Manual 14th Edition

American Institute of Steel Construction (AISC): AISC 341-10 Seismic Provisions for Structural Steel Buildings

American Institute of Steel Construction (AISC): AISC 358-10 Prequalified Connections for Special Moment Frames for Seismic Applications including Supplement No. 1, Dated 2011

American Institute of Steel Construction (AISC): AISC 360-10 Specification for Structural Steel Buildings

American Iron and Steel Institute (AISI): S100-07 North American Specification for the Design of Cold-formed Steel Structural Members including Supplement No. 2

American Iron and Steel Institute (AISI): S213-07 North American Standard for Cold-formed Steel Framing - Lateral Design

American Welding Society: AWS D1.1:2010 Structural Welding Code - Steel

American Welding Society: AWS D1.3:2008 Structural Welding Code - Sheet Steel

American Welding Society: AWS D1.4:2011 Structural Welding Code - Reinforcing

American Welding Society: AWS D1.8:2009 Structural Welding Code - Seismic Supplement

American Forest & Paper Association (AF&PA): NDS-12 National Design Specification (NDS) for Wood Construction with 2012 Supplement

American Forest & Paper Association (AF&PA): SDPWS-08 Special Design Provisions for Wind and Seismic

ASTM specifications on the structural drawings shall be of the latest version, unless otherwise noted.

Refer to the architectural drawings for the following:

- Dimensions not shown on the structural drawings.
- Size and location of all floor and roof openings, except as noted.
- Size and location of all interior and exterior non-bearing partitions.
- Size and location of all door and window openings, except as noted.
- Size and location of inserts for cladding or ornamentation.
- Size and location of all concrete curbs, equipment pads, pits, floor drains, slopes, depressed areas, change in level, chamfers, grooves, inserts, etc.
- Floor and roof finishes.

Refer to the mechanical, plumbing, and electrical drawings for the following:

- Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc., except as noted.
- Electrical conduit runs, boxes, and outlets in walls and slabs.
- Concrete inserts for electrical, mechanical, or plumbing fixtures.
- Size and location of machine or equipment bases or anchor bolts for motor mounts.

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to construction equipment, etc. Observation visits to the site by the Engineer shall not include inspection of the aforementioned items.

Contractor shall investigate the site, during clearing and earthwork operations, for filled excavations or buried structures, such as cesspools, cisterns, foundations, etc. If any such structures are found, the Engineer shall be notified immediately.

Openings, pockets, etc., larger than 6" shall not be placed in concrete slabs, decks, or walls, unless specifically detailed on the structural drawings. Notify the Engineer when drawings by others show openings, pockets, etc., larger than 6" not shown on the structural drawings, but which are located in structural members. For any further restrictions on openings in structural elements, see applicable sections below.

Construction material shall be spread out if placed on framed roof or floor. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where the structure has not attained the design strength.

Specifications and detailing of all waterproofing and drainage items, although sometimes indicated on the structural drawings for general information purposes only, are solely the design responsibility of others.

Shop drawings, special inspections, and material sampling and testing, when required, are specified in their respective tables in the general notes and in the specifications.

DESIGN

Design conforms to the California Building Code, 2013 Edition.

Project Description and Objectives:

The existing building is a 2-Story steel frame and concrete infill building with wood floors and roof constructed circa 1930. The existing lateral system consists of concrete shear walls with T&G wood diaphragms.

Repairs and seismic retrofit of the existing structure are designed in accordance with the provisions of ASCE-41-13. The target building performance level is Life Safety (3-C) for BSE-1 Seismic Hazard Level.

Live loads:

Roof (flat)	20 psf
Roof (sloped)	16 psf
Residential Floor	40 psf
Residential Attic w/ Storage	20 psf
Residential Attic w/o Storage	10 psf
Balcony (100 psf max)	1.5 * Live load of area served
Corridors	100 psf
Office	85 psf LL + 15 psf partition load
Access Floor, Office	85 psf LL + 15 psf partition load
Access Floor, Computer	100 psf
Restaurant	100 psf
Retail, First Floor	100 psf
Retail, Upper Floor	100 psf
Parking	40 psf
Plaza	100 psf
Plaza Drive Areas	250 psf

Wind Analysis:

Basic wind speed, V_{3S}	(CBC Figure 1609)	V_{ULT} =	110 mph
Wind Importance Factor, I_w	(ASCE Table 1.5-2)	I_w =	1.0
Exposure	(CBC Section 1609.4.3)	=	C
Internal Pressure Coefficient, GC_{pi}	(ASCE Table 26.11-1)	GC_{pi} =	0.18

Seismic Analysis:
The voluntary partial seismic strengthening design is based on the linear dynamic procedures contained in ASCE 41-13. All new elements are detailed in accordance ductility requirements of the 2013 CBC. The performance objective for all new seismic elements is life-safety for the BSE-1E (20%/50 years) seismic hazard.

Site Location, Latitude			40° 47' 51.8" N.
Site Location, Longitude			124° 9' 47.1" W.
Spectra Accel., Short Period, $S_{s,20/50}$	(ASCE 41 Section 2.4.1.4)	$S_{s,\ 20/50}$ =	0.830 g
Spectra Accel., Long Period, $S_{1,20/50}$	(ASCE 41 Section 2.4.1.4)	$S_{1,\ 20/50}$ =	0.309 g
Site Classification	(ASCE 41 Section 2.4.1.6)	=	D
Design Response, Short Period, S_{XS}	(ASCE 41 Section 2.4.1.4)	S_{XS} =	0.969 g
Design Response, Long Period, S_{X1}	(ASCE 41 Section 2.4.1.4)	S_{X1} =	0.551 g
Seismic Design Category	(ASCE 41 Section 2.5)	=	D
Base Shear, V		V = 3750 Kips (N-S) V = 3750 Kips (E-W)	

Seismic Analysis Procedure: Linear Dynamic lateral force procedure
Ground motion: USGS Response Spectrum
Analysis/Design: Utilizes the "ETABS" computer software

EXISTING CONSTRUCTION

Existing construction shown on the structural drawings was obtained from field surveys. The Contractor shall verify all existing conditions and shall notify the Architect of all exceptions before proceeding with the work.

The removal, cutting, drilling, etc. of existing work shall be performed with great care and small tools in order not to jeopardize the structural integrity of the building. If existing structural members, not indicated for removal, interfere with the new work, the Engineer shall be notified immediately, and approval obtained, before removal of the existing members.

The Contractor shall safely shore existing construction wherever existing supports are removed to allow installation of the new work. The existing construction shall be connected and/or embedded into the new construction as shown or specified.

FOUNDATIONS

Foundations conform to the recommendations of the Geotechnical Report entitled: "Veterans Memorial Hall Geotechnical Report, 1020 H Street Eureka, California," prepared by LACO Associates, Inc, dated July 16, 2015.

Maximum soil pressure	=	3000 psf DL + LL
	=	4000 psf DL + LL + Lateral
Subgrade modulus	=	200 psi/in

Retaining Walls

Equivalent fluid pressure (for drained/undrained walls)

Active condition (unrestrained)		
Level backfill	=	35 pcf
Sloping backfill (2:1 max)	=	50 pcf
Surcharge	=	2ft*
Seismic Increment	=	70 pcf
At rest condition (restrained)		
Level backfill	=	0 pcf
Sloping backfill (2:1 max)	=	65 pcf
Surcharge	=	2ft*
Seismic Increment	=	70 pcf
Coefficient of friction	=	0.3
Passive earth pressure (ignore top 12 inches)	=	1500 psf

Combinations of friction and passive pressure shall include a 50% reduction to the lesser of the two.

* Height of soil equivalent to vehicular traffic surcharge

Refer to the Geotechnical Report for additional recommendations not listed below. All site grading, excavations, fills, and soil preparation shall conform to the Geotechnical Report and all work shall be done under the observation of the Geotechnical Engineer.

The Contractor shall provide for the design and installation of all cribbing, sheathing, and shoring required and shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all national, state, and local safety ordinances.

FOUNDATIONS (Continued)

Footings

Footings shall extend to such depth as to bear upon firm, undisturbed native soil or structural fill. All abandoned footings, utilities, etc. shall be removed. All footings shall be founded at a depth at least 12" below the lowest adjacent grade. Footing depths shown on the structural drawings are minimum depths. Footings may be poured in neat excavated trenches.

Excavations for footings shall be observed by the Geotechnical Engineer prior to placing reinforcing and concrete. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for observation.

Compacted Fill

Compacted fill below footings shall be compacted to 90% relative compaction as determined by the ASTM D1557 compaction test method and under the oberservation of the geotechnical Engineer. Compacted fill shall have a minimum depth of 6" beneath all footings.

Slabs On Grade

For the sub capillary break materials under concrete slabs on grade, refer to the Geotechnical Report. Provide 2" of moist sand over a 10 mil vapor barrier over 4" rock course under slabs on grade. Rock course shall be rolled to a smooth surface.

Backfill

All excavations shall be properly backfilled. Do not place backfill behind retaining walls before the concrete or grout has attained full design strength. The Contractor shall brace or protect all building and pit walls below grade from lateral loads until the attaching floors are completely in place and have attained full strength. The Contractor shall provide for the design, permits, and installation of such bracing.

Footing backfill and utility trench backfill within the building area shall be mechanically compacted in layers in accordance with the Geotechnical Report and observed by the Geotechnical Engineer or Inspector. Flooding will not be permitted.

Geotechnical Engineer Observation Letter

The Geotechnical Engineer shall prepare a letter for the Building Department giving an opinion regarding conformance of the footing excavations, engineered/compacted/select fill compaction, subgrade preparation, and backfilling with the requirements contained in the Geotechnical Report.

UNDERPINNING

The design and construction of underpinning and bulk heading for earth retention during excavation shall be by an experienced subcontractor who specializes in this type of work. Underpinning, shoring, lagging, etc., shall be designed by a professional engineer registered in the State of California and hired by the Underpinning/Bulk Heading Contractor.

REINFORCING STEEL

Reinforcing Steel detailing, fabrication, and placement shall conform to the "California Building Code", Chapter 19; the "Manual of Standard Practice of the Western Concrete Reinforcing Steel Institute", latest edition; and the "Building Code Requirements for Structural Concrete and Commentary", ACI 318-11; unless otherwise noted.

Standards: Reinforcing steel shall conform to the following standards:

Deformed Bars, #3	ASTM A615, Grade 40
Deformed Bars, #4 and larger	ASTM A615, Grade 60
Welded reinforcement, when specified by Engineer	ASTM A706
Welded Wire Fabric, WWF (smooth wire)	ASTM A185
Smooth wire in WWF	ASTM A185
Deformed Wire Fabric, DWF (deformed wire)	ASTM A497
Deformed wire in DWF	ASTM A496
Spiral Reinforcement, smooth	ASTM A615
Spiral Reinforcement, deformed	ASTM A615
Epoxy Coated Reinforcing, when specified by Engineer	ASTM A775 and A615

Shear Walls and Ductile Frames: Reinforcing bars used in shear walls or ductile moment frame beams and columns shall also meet the following requirements in accordance with ACI 318-11 Section 21.2.5:

1. Low Alloy ASTM A706, or
2. ASTM A615, Grade 60 where:
   a) the actual yield strength based on mill tests does not exceed the specified yield strength by more than 18,000 psi (retests shall not exceed this value by more than an additional 3,000 psi) and
   b) the ratio of the actual ultimate tensile stress to the actual tensile yield strength is not less than 1.25.

Placing: All steel reinforcement shall be securely tied in place so as to maintain their exact position before and during the placement of concrete. Reinforcing steel shall be securely tied in place with #16 annealed iron wire. Bars in beams and slabs shall be supported on well-cured concrete blocks or approved plastic tipped metal chairs, as specified by CRSI Manual of Standard Practice, MSP-1. Accessories for epoxy-coated reinforcing, where shown on plans, shall be as noted in the Specifications. Wire fabric in slabs shall be securely fastened to supporting devices to maintain their position during concrete placement.

Lap bars 58 diameters, laps shall be staggered, for #3 to #6 bars unless otherwise noted
Lap bars 72 diameters, laps shall be staggered, for #7 to #11 bars unless otherwise noted

Mechanical splices: Where noted on plans, provide threaded couplers capable of developing the minimum of 125% of the specified yield strength or 100% of the specified tensile strength of the reinforcing steel. Couplers shall be Type 2, as per ACI 318-08 Section 21.1.6. Threaded Couplers shall be as manufactured by Erico Company, or approved equal with a current ICC Evaluation Report.

Headed Reinforcement: Where noted on plans, provide rebar terminators capable of developing the tensile strength of the reinforcing steel. Rebar terminators shall be as manufactured by Erico Inc (ICC ES ER-3967) or approved equal with a current ICC approval report.

Form Saver: Form savers may be used where noted on plans, in lieu of dowels and at construction joints. Where substituted, contractor to submit for review prior to construction. Form savers shall be capable of developing the minimum of 125% of the specified yield strength or 100% of the specified tensile strength of the reinforcing steel. Form savers shall be Type 2, as per ACI 318-08 Section 21.1.6. Form Savers shall be as manufactured by Erico Inc (ICC ES ER-3967) or approved equal with a current ICC approval report.

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REGISTERED PROFESSIONAL ENGINEER
BLAKE W. DILSWORTH
No. 3929
STRUCTURAL
STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Sheet Title
GENERAL NOTES

Project ID
210502

No.	Date	Appr	Revision Notes
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2			
3			
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Date NOVEMBER 10, 2016
Scale AS NOTED
Sheet No. S1.1

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11/10/2016 - PLAN CHECK SET

GENERAL NOTES

REINFORCING STEEL (Continued)

Welding: Where welding of reinforcing bars is approved by the Engineer, it shall be done by AWS certified welders using E90XX or approved electrodes. Welding procedures shall conform to the requirements of the "Structural Welding Code - Reinforcing Steel", AWS-D1.4.

Clear distances, steel to forms, unless noted otherwise:

Slabs not exposed to weather, joists, interior wall surfaces	3/4"
Exterior wall surfaces, slabs exposed to weather, #5 and smaller	1-1/2"
Exterior wall surfaces, slabs exposed to weather, #6 and larger	2"
Column Ties, Beam Ties	1-1/2"
Clear distance between bars	2"
Slabs on rolled grade	1-1/2"
Formed surfaces in contact with earth	2"
Unformed surfaces in contact with earth	3"

Shop drawings shall be submitted to the Architect for review prior to fabrication. Shop drawings shall include elevations of all beams and columns showing bar and lap locations. See Shop Drawing Submittal Requirements elsewhere in General Notes. Submit mill certificates for reinforcing steel prior to rebar placement.

CONCRETE WORK

Forms shall be properly constructed conforming to concrete surfaces as shown on the drawings, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed to support the concrete. Forms for exposed concrete shall be plywood, using sheets as large as possible, with all joints tightly fitted and blocked, and shall produce a finished concrete surface which is smooth, true, and free from blemishes according to accepted standards for architectural concrete.

Refer to architectural, electrical, and mechanical drawings for details at door and window openings, floor type hinges, etc., and for location of sleeves, pipes, and other embedded items. Openings through slabs or walls not shown on the structural drawings which would interrupt reinforcing bars shall not be made without approval of the Architect.

Debris should be entirely removed from forms prior to concrete placement.

Horizontal construction joints shall be located as shown on the structural drawings, and the hardened concrete surfaces shall be cleaned by sand-blasting or other approved means to expose firmly embedded aggregates prior to pouring additional concrete in contact with these surfaces. Vertical construction joints through beams or slabs shall be located only as shown on structural drawings.

Forms and shoring shall not be removed until the concrete has attained sufficient strength to withstand all loads to be imposed without excessive stress, creep, or deflection. See specifications for shoring requirements.

Concrete shall be ready mixed conforming to ASTM C94. Cement shall be Portland Cement Type II, conforming to ASTM C150.

Use maximum size aggregate as noted below.

Use 3/8" maximum aggregate where necessary for proper placing, such as in thin or congested sections, etc. Superplasticizers may be used to improve workability in thin or congested sections. Incorporate superplasticizers into concrete mix designs.

Flyash shall consist of pozzolanic admixtures conforming to ASTM C6819, Class F, and shall be used in quantities noted below. See specifications for additional requirements.

Ground Granulated Blast Furnace Slag (GGBFS) shall conform to ASTM C989 and be used in quantities noted below. See specifications for additional requirements.

Admixtures used in concrete shall conform to the following ASTM standards, shall be used in dosages recommended by the manufacturer, and shall not contain more chloride than is found in the municipal drinking water supply. Liquid volume in ASTM C494, Type C admixtures shall be added to water content and water cement ratio calculations.

Water reducers	ASTM C494, Type A
Mid-range water reducers	ASTM C494, Type A/F
High-range water reducers	ASTM C494, Type F
Hydration Stabilizers (Retarders)	ASTM C494, Type B and D
Accelerators	ASTM C494, Type C
Air Entraining Agents	ASTM C260
Corrosion Inhibitors	ASTM C494, Type C
Shrinkage Reducing Admixtures	ASTM C494, Type F
Viscosity Modifying Admixtures	ASTM C494, Type S
Silica Fume	ASTM C1240
Crystalline Waterproofing	No ASTM standard

Contractor shall submit for review of the Architect the concrete mixes proposed for use, designed by the concrete supplier and reviewed by an approved testing laboratory.

Concrete shall have the following characteristics:

Concrete Location	Max Aggregate		Strength @ 56 Days (psi)	Min Slump1 (inches)	Min Cement Content (Sacks)	Max Water Content2 (gals)	Max Water/ Cement Ratio	Flyash Content Min, Max
Footings	1-1/2"	HR	3000	3-1/2	5.0	36	0.60	20%,35%
Lean Concrete	3/8"	HR	500	6	2.0	36	0.60	0%,0%
Grade Beams	1"x#4	HR	3000	4	5.0	34	0.50	15%,25%
Slab on grade	1"x#4	HR	3000	3-1/2	5.0	33	0.45	15%,25%
Columns	1"x#4	HR	4000	3-1/2	6.0	35	0.55	15%,25%
Walls/Pilasters	1"x#4	HR	4000	3-1/2	6.0	35	0.55	15%,25%

1 Slump shall be the minimum consistent with proper placing. Achieve slump with water reducing admixtures(ASTM C-494 Type A, F, or A/F) for desired workability.
2 Use high range water reducing admixture (superplasticizer) as needed.
3 Use water reducing admixtures or mid-range water reducing admixtures for desired workability.

Pipes other than electrical conduits shall not be embedded in structural concrete except where specifically approved by the Engineer. Electrical conduits embedded in concrete shall not exceed 1-1/4" O.D., without approval of the Engineer.

Conduit, when embedded in concrete, shall be spaced with one conduit diameter (larger conduit) clear between adjacent conduits, rebar, or 1 inch, whichever is greater. Conduit shall not be located directly over and parallel to rebar. Embedded conduit can be tied to rebar when oriented perpendicular to them, provided the location of rebar is not affected by the conduit. Conduit without clearance noted above shall be submitted to the architect for review prior to installation. Added trim reinforcement will be required where clearances cannot be met, such as electric panel rooms.

CONCRETE WORK (Continued)

Sleeves, when installed in concrete, shall be spaced with one sleeve diameter (larger sleeve) clear between adjacent sleeves, rebar, or 1 inch, whichever is greater. Sleeves may not touch rebar or other support hardware. Provide clearance between sleeves and reinforcing for typical slab edge conditions. Added trim reinforcement is required per the typical slab opening detail when sleeves exceed 12" diameter or are placed in groups where the out-to-out dimension exceeds 12" in any direction. Sleeve placement shall not interfere with the rebar placement without the approval of the Engineer.

The Contractor shall inform the Architect at least 3 days prior to pouring any structural concrete so that the Architect may have the opportunity of reviewing the work prior to concrete placement.

All concrete except slabs on grade 6" thick or less shall be mechanically vibrated so as to completely fill the forms without causing undue segregation.

For 56 day strengths and 4" diameter x 8" long cylinders:
For mild reinforced concrete, 6 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, one at 28 days for information, and three at 56 days for acceptance, and one held in reserve.

For 56 day strengths and 6" diameter x 12" long cylinders:
For mild reinforced concrete, 5 test cylinders from each 150 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, one at 28 days for information, and two at 56 days for acceptance, and one held in reserve.

The Contractor shall remove and replace any concrete which fails to attain specified strength in 56 days if so directed by the Architect. Any defects in the hardened concrete shall be satisfactorily repaired or the hardened concrete shall be replaced.

SHOTCRETE

Refer to CONCRETE WORK section for additional information not listed below.

Shotcrete shall have the following characteristics:

Shotcrete Location	Aggregate	Strength @ 56 Days	Maximum Slump	Minimum Cement Content	Maximum Water/Cement Ratio
Walls	3/8" H.R.	4000 psi	2"	6.5 Sacks	0.5

The forms shall be adequately braced to insure against excessive vibration and the forms shall be built so as to permit the escape of air and rebound and to facilitate the placing of the shotcrete to finish tolerances. Use a form-coating material on removable forms to prevent the absorption of moisture and to prevent bonding with the shotcrete. Use a non-stain material for surfaces exposed to view when construction is completed.

Reinforcement shall be fastened very rigidly to eliminate vibration and insure proper embedment in the shotcrete. Reinforcement shall be reviewed by the Engineer before the placement of shotcrete. Contact laps will be accepted upon successful construction and testing of preconstruction mock-up panel, see requirements below.

Ground wires shall be installed in such a manner that they accurately outline the finished surface of the shotcrete as indicated on the structural drawings. They shall be located at intervals sufficient to insure proper thickness throughout. The wire shall be stretched tight and shall not be removed prior to application of the finish coat. All surfaces shall be rodded to these wires to finish tolerances.

Wet Mixed Shotcrete Materials

Cement shall be Portland cement, Type II, and shall conform to ASTM C150 with latest amendments.

Aggregate shall be comprised of 20 to 40 percent round pea gravel and 60 to 80 percent fine aggregate. The aggregate shall be thoroughly washed, free from oil or other deleterious substances such as clay lumps, shale, free alkalies, coated grains, or soft, flaky particles. Pea gravel shall conform to ASTM C33 requirements for coarse aggregates with 3/8 inch diameter maximum. Fine aggregates shall be evenly graded from fine to coarse in accordance with ASTM C33 and shall contain no particles larger than 3/8 inch in diameter. When tested in accordance with ASTM C33, sand shall not show a color solution darker than the standard color solution No. 2.

Water shall be clean and free from deleterious amounts of acids, alkalies, salts or organic materials.

Water-reducing admixtures shall be ASTM C494 Type A, Pozzolith 300-N by Master Builders, WRDA by W. R. Grace Co., or equal. Do not use calcium chloride in concrete.

The materials shall be mixed in an approved power batch mixer equipment with a device for accurately measuring the quantity of fine aggregate. The materials shall be thoroughly mixed until fully blended as indicated by visual inspection. The wet mixed shotcrete shall be placed within 90 minutes after the cement, admixture, and water have been mixed with the aggregate.

Preconstruction Mock-up Panel

Each nozzleman proposed for use shall shoot a preconstruction panel representative of the most congested reinforcing including laps or couplers, the contractor proposes to shoot. Minimum preconstruction mock-up panel shall be 4'-0" wide x "1 story height" tall. If pilasters are to be shotcreted, incorporate pilasters into the preconstruction mock-up panel and widen as necessary. The wall mock-ups shall allow for six 6" diameter cores to be taken through the congested reinforcing steel (three at the bottom and three at the top of the mock-up panel) to be evaluated for consolidation and three 6" diameter cores to be taken between reinforcing bars to be evaluated for compressive strength. Each nozzleman shall achieve an average grade of 2.0 or better, with no single core grade worse than 2.0, per ACI 506.2 grading definitions. The strength of the three test cores shall equal or exceed the specified compressive strength noted in these drawings when tested in accordance with ACI 214. Submit preconstruction mock-up panel details to Architect for review.

Shotcrete Placement

The Contractor must have had at least five years experience in shotcrete construction and must be able to show examples of similar installations of the shotcrete work as shown on the structural drawings, which he has constructed, and which upon investigation have been found to be completed in a satisfactory manner. Only experienced foremen, gunmen, nozzlemen, and rodmen shall be employed and satisfactory written evidence of such experience shall be furnished to the Architect or his representative upon demand. Each nozzleman shall be qualified by preconstruction mock-up panel testing for each type of element being shot, as defined below.

Construction joints shall be a square edge with spaced keys as shown in the details and the entire joint shall be thoroughly wetted before the adjacent shotcrete is placed. The film of laitance which forms on the surface of the shotcrete shall be carefully removed by wire brushing one hour after application. After 24 hours, the film shall be removed by sand blasting.

Shotcrete shall be placed to final thickness (ground wires) in one operation, before screeding. Multiple layers of shotcrete application will not be allowed in walls less than 18" thick. Elements 18" thick or thicker shall not be shotcreted without approval of the Architect. Upon reaching the thickness and planes outlined by the forms and ground wires, excess material shall be sliced off with a sharp edge cutting screed to true lines. Low spots shall be built up to the proper thickness. Finish surfaces as indicated in specifications. Finishes shall be true to plane within 1/8 inch in 10 feet as determined by a 10 foot straight edge placed anywhere on the surface in any direction. Grind or patch surface defects which are incompatible with finish.

All shotcrete shall be kept constantly damp by means of soaked burlap with soaker hose or spray, for a period of not less than ten days after being deposited. Method of curing shall be subject to approval of the Architect.

SHOTCRETE WORK (Continued)

Shotcrete Testing

Provide continuous testing and inspection from an approved independent testing laboratory. Testing laboratory shall take not less than one test panel each shift nor less than one test panel for each 50 cubic yards of shotcrete placed. Unreinforced test panels shall be at least 1 foot square and 3 inches thick. Six cubes or cores shall be taken from each panel for testing. The specimens shall be tested in compression, one to be tested at 7 days for information, one at 28 days for information, three at 56 days for acceptance, and the sixth held in reserve.

CONSTRUCTION JOINTS

All construction joints shall be constructed in accordance with CBC Section ACI 318-11 section 21.9.9 and the typical construction joint details shown on the structural drawings.

All surfaces of construction joints shall be cleaned to remove dust, chips, or other foreign matter prior to placing the adjacent concrete.

The Contractor shall submit the proposed locations of construction joints to the Architect for review by the Architect before starting construction.

ROUGHENED SURFACE

Roughened Surface, where noted on Drawings shall be a surface intentionally roughened to 1/4" amplitude with exposed aggregates. Apply spray-applied concrete retarder after initial set of concrete in areas specified to have roughened surfaces. Remove concrete paste from concrete surface with high pressure water stream. Keys are not required at locations of roughened surfaces. Raked surfaces shall not be used as roughened surfaces.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

Structural Steel and Miscellaneous Metal shall be detailed, fabricated, and erected in accordance with AISC 325. Fabricators and Erectors shall be AISC Certified.

NOTE: Previous sentence may not be applicable to all projects- verify with PIC/PM

Standards: All Structural Steel shall conform to the following ASTM designations, U.N.O.

WF Shapes	A992
WT Shapes	A992
HP Shapes	A992
M and S Shapes	A36
Steel Pipe	A53, Grade B (Fy = 35 ksi)
HSS Round	A500, Grade B (Fy = 42 ksi)
HSS Rectangular and Square	A500, Grade B (Fy = 46 ksi)
Angles, C-Shapes, MC-Shapes	A36
Moment Frame Continuity, Doubler and Base Plates	A572-Grade 50 or A529-Grade 50
Braced Frame Gusset, Shear Plates and Base Plates	A572-Grade 50 or A529-Grade 50
Other Steel Plates and Bars	A36

Unless otherwise shown or noted stiffener plates shall be 3/8" thick minimum.

All structural steel surfaces that are encased in concrete, masonry, spray on fireproofing, or are encased by building finishes shall be left unpainted except as required for designation of protected zones, unless noted otherwise.

Where galvanized steel is indicated on drawings, galvanize according to ASTM A123, hot dip process.

Erection clips, temporary bracing, and shoring required by the Contractor are not shown. Contractor shall comply with all OSHA requirements.

Additional miscellaneous metal items such as embeds, railings, and supports for interior finishes may be shown on drawings prepared by others, see architectural drawings.

Shop drawings shall be submitted to the architect for review prior to fabrication
The testing agency shall send copies of Structural Testing and Inspection Reports directly to the Engineer of Record.

Bolted Connections:

Unless otherwise noted, all steel to steel bolted connections shall be bolted with high strength bolts per the "Specification for Structural Joints Using ASTM A325 or A490 Bolts", by the Research Council on Structural Connections (RCSC).

1. Unless otherwise noted, bolts in connections shall be bearing type with threads excluded from the shear plane. Use ASTM A325 bolts unless specifically noted as A490 on the drawings. Except where required to be pre-tensioned in AISC 360 Section J.1.10, or where specifically designated as Slip Critical (SC) on the drawings, all bolts in bearing type connections may be snug tightened per RCSC.
2. Bolts in connections designated as SC, on the drawings or required to be pre-tensioned in accordance with AISC 360 Section J.1.10 shall be pre-tensioned with Class A faying surfaces in accordance with RCSC with threads excluded from the shear plane. Use ASTM A325 bolts unless specifically designated as A490 on the drawings.
3. Steel washers shall conform to ASTM A436 or A959. Nuts shall conform to ASTM A563.
4. Unless noted otherwise, anchor bolts and/or anchor rods shall conform to ASTM F1554 Grade 36. Use ASTM F1554 Grade 55 (weldable) or 105 where noted on the drawings.
5. Other bolted connections shall be bolted with unfinished bolts according to ASTM A307.

Welded Connections:

All welded connections shall be welded in accordance with the "Structural Welding Code - Steel (AWS-D1.1). All welding shall be done with electrodes having a minimum tensile strength of 70 ksi, unless noted otherwise. Shielded metal arc welding (SMAW) electrodes shall be low-hydrogen type. Unless otherwise noted,

1. All welders shall be qualified in accordance with AWS D1.1 for all welds they will be performing.
2. The weld lengths called for on the structural drawings are the net effective length required. Where fillet weld symbol is given without indication of size, use the minimum size welds as specified in AISC 360, Section J2.2b.
3. All welding shall be performed in conformance with a written welding procedure specification (WPS). Submit all WPS's applicable to the project for review listing specific electrodes to be used. The submittal shall include an index of all procedures, shall identify the actual electrode to be used for each procedure, and shall include electrode data sheets describing the products, the limitations of use, the recommended welding parameters, and storage and exposure requirements. For WPS's that are not pre-qualified per AWS D1.1, submit procedure qualification record with WPS.
4. Run-off tabs per AWS D1.1 are required for Complete Joint Penetration (C.J.P.) groove welds. All welds are to be started and completed on the run-off tabs as much as practicable. Do not end welds at cope hole locations. Use of weld dams is not allowed.
5. The minimum preheat and interpass temperatures of AWS D.1 Section 3.5 must be followed.

COUNTY OF HUMBOLDT
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REGISTERED PROFESSIONAL ENGINEER
BLAKE W. DILSWORTH
No. 3929
STRUCTURAL
STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

Sheet Title: GENERAL NOTES

Project Title:
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr.	Revision Notes
1			
2			
3			
4			
5			

Drawn: MF | Reviewed: DR
Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S1.2

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11.10.2016 - PLAN CHECK SET

G E N E R A L N O T E S

STRUCTURAL STEEL AND MISCELLANEOUS IRON (Continued)

6. All C.J.P. groove welds in members and connections shall be made with a filler metal having a minimum Charpy V-Notch toughness of 20 FT-LBS at 40 degrees F as determined by AWS classification or manufacturer's certification.

7. All Butt welds are complete joint penetration welds.

8. Complete penetration welds and partial penetration welds shall be examined by Ultrasonic Testing. All testing and inspection shall conform to CBC requirements. Refer to the specifications for additional information.

CARPENTRY

Framing lumber shall meet the following minimum standard except where otherwise noted:

USE		SPECIES	GRADE	AUTHORITY
Mudsills	2 x 4	D.F.	Standard or Better Pressure Treated	CBC Sec. 2303.1.8
	2 x 6 and larger	D.F.	No. 2 or Better Pressure Treated	CBC Sec. 2303.1.8
	2 x	Redwood	Foundation Grade	CBC Sec. 2303.1.8
Plywood		A.P.A. Grade Marked	CC Exterior or CD Exposure 1	CBC Standards Sec. 2305 & DOC PS1 & PS2
OSB		A.P.A. Grade Marked	Exterior or CD Exposure 1	CBC Standards Sec. 2305 & DOC PS1 & PS2
Horizontal framing lumber:				
4 x 4 and smaller		D.F.	No. 2	WCLIB & WWPA
2 x roof joists and rafters		D.F.	No. 2	WCLIB & WWPA
2 x floor joists		D.F.	No. 2	WCLIB & WWPA
4 x headers and beams		D.F.	No. 2	WCLIB & WWPA
6 x 6 and larger		D.F.	No. 1	WCLIB & WWPA
Vertical framing lumber:				
2 x 6 & 2 x 8 studs		D.F.	No. 2	WCLIB & WWPA
2 x 4 & 3 x 4 studs		D.F.	Stud	WCLIB & WWPA
4 x 4 & 4 x 6 posts		D.F.	No. 2	WCLIB & WWPA
4 x 8 & larger posts		D.F.	No. 1	WCLIB & WWPA
6 x 6 & larger posts		D.F.	No. 1	WCLIB & WWPA
All other framing lumber, u.n.o.		D.F.	Standard & Better	WCLIB & WWPA

Solid sawn joists shall be grade stamped "S-DRY" which indicates a moisture content not exceeding 19 percent.

Stud walls shown on plans are nonbearing partitions walls, bearing walls or shear walls below the framing level, unless noted otherwise. Studs shall be size and spacing as noted in the drawings, see plans, schedules, and architectural drawings. Where not noted otherwise, stud walls shall be 2 x 4 at 16"o.c

Minimum framing nailing shall conform to CBC Table 2304.9.1. All nails shall be common wire nails. Predrill nail holes to 70% of nail shank diameter where nailing tends to split wood.

Unless otherwise noted, all wood sill plates under exterior or shear walls in contact with concrete or masonry shall be bolted to the concrete or masonry with 5/8" diameter x 12" bolts at 4'-0"o.c. beginning at 9"o.c. maximum from each end of the plates. The bolts shall extend a minimum of 7" into the concrete or masonry.

All lumber in contact with concrete shall be pressure treated lumber with AWPA treatment C2 using either Alkaline Quat (ACQ type B and D), Copper Azole (CBA-A, CA-B), or Sodium Borates (SBX). Anchor bolts, fasteners, and Metal framing connectors in contact with

lumber shall be hot-dipped galvanized to a rating of G-185 per ASTM A653.

Provide 2 studs, each end, under all 4 x 10 and larger beams or headers at spans larger than 5 feet, unless otherwise noted. Where posts or multiple studs under beams or headers are called for on drawings those posts or multiple studs shall be carried to the foundation.

At solid sawn joist provide the following as a minimum, unless shown otherwise:

2" x full depth solid blocking between joists over support.
2" x full depth solid blocking between joists over and below partition walls.

Bridging shall be 2 x solid blocking or approved metal bridging, installed as follows:
Roof joists more than 8" depth, 8'-0"o.c. maximum, not more than 8'-0" from support.
Floor joists more than 8" depth, 8'-0"o.c. maximum, not more than 8'-0" from support.

Joist hangers and other metal framing accessories are referred to on plans by particular type as manufactured by Simpson Strong-Tie Company, Stockton, California. Accessories of other manufacture with equivalent load carrying characteristics may be used.

Fire stopping, backing for interior finishes, nonbearing walls, and other non-structural framing are not necessarily shown on structural drawings.

CARPENTRY (Continued)

Plywood Sheathing:

See plans and diaphragm schedule for plywood specification and nailing requirements.

Sheathing Installation - Plywood roof and floor sheathing shall be laid with the grain of the outer plies perpendicular to the framing members, shall be continuous over 2 joist bays minimum and end joints shall be staggered. Plywood or OSB Wall sheathing shall be applied vertically.

Unless otherwise noted, plywood or OSB sheathing nails shall be common. Equivalent pneumatically driven nails or staples may be used if fastener manufacturer has received ICC approval according to ESR-1539, or equal. Fasteners to be substituted shall be equivalent in lateral and withdrawal strength to the size of common nail specified.

Use of machine nailing is subject to a satisfactory jobsite demonstration for each project and the approval by the project architect or structural engineer. The approval is subject to continued satisfactory performance. If nailheads penetrate the outer ply more than would be normal for a hand hammer or if minimum allowable edge distances are not maintained, the performance will be deemed unsatisfactory.

LOW VELOCITY PINS (L.V.P.)

Provide X-U Powder Actuated Fasteners with low velocity charges of size and spacing shown, where L.V.P. is noted on the drawings, as manufactured by Hilti. Comply with ICC ER 2269, or approved equal.

EPOXY ANCHORAGE

Where epoxy is used to adhere rebar or anchors to concrete, product shall be HIT-HY 200 as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-3187), or approved equal. All drilled holes shall be sized according to the manufacturer's recommendations.

EPOXY INJECTION

Where epoxy injection is used to repair cracks in existing concrete, product shall be very low viscosity, low VOC, high strength, moisture tolerant epoxy adhesive. Acceptable products include SIKADUR 35 HI-MOD LV, as manufactured by SIKA Coporation, Eucopoxy Injection Resin as manufactured by the Euclid Chemical Corporation, or approved equal.

EXPANSION ANCHORS

Expansion Anchors shall be KB-TZ as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-1917) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

HIGH STRENGTH SCREW ANCHORS

High-Strength Screw Anchors shall be Titen HD as manufactured by Simpson Strong Tie, Inc. (ICC Evaluation Report ESR-2713) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

SHOP DRAWING SUBMITTALS

When indicated with a '✓', the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. Submit two prints or an electronic (PDF copy) of calculations (where indicated) and shop drawings to the Architect for review.

Item	Shop Drawings	Certif-icate	Shop Dwgs, Calcs, and Details	Remarks
Concrete, reinforcing	✓			
Concrete, mixes	✓			
Gunite/Shotcrete, mixes	✓			
Concrete, cement		✓		
Concrete, fine aggregates		✓		
Concrete, coarse aggregates		✓		
Concrete, admixtures		✓		
Structural steel	✓			
Welding Procedure Specifications-WPS		✓		
Metal decking w/ stud layout				
Light metal structural framing				
Metal stairs				
Metal stud framing, exterior walls				

SPECIAL INSPECTION

When indicated with a '✓', the following items shall be inspected in accordance with CBC Section 1705 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Grading, excavations, and fill	✓	By Geotechnical Engineer
Concrete, rebar placement	✓	Inspect final placement
Concrete, rebar welding	✓	
Concrete, rebar coupling	✓	10% with torque wrench
Concrete, anchor bolts and inserts	✓	
Concrete, concrete placement	✓	Continuous
Batch plant inspections	✓	Periodic
Shotcrete placement	✓	Continuous
Expansion anchor placement	✓	
Epoxy anchor placement	✓	
Screw anchor placement	✓	
Structural steel, shop welding - periodic	✓	Fillet welds
Structural steel, shop welding - continuous	✓	Partial or full penetration welds
Structural steel, field welding - periodic	✓	Fillet welds
Structural steel, field welding - continuous	✓	Partial or full penetration welds
Structural steel, high strength bolting	✓	
Structural steel, welded anchors or studs	✓	
Metal deck welding	✓	Periodic
Floor/roof sheathing screws/nailing	✓	Periodic
Shear wall sheathing screws/nailing	✓	Periodic
Anchor bolts	✓	
Metal strap placement/attachment	✓	

MATERIAL SAMPLING AND TESTING

When indicated with a '✓', the following materials shall be sampled and/or tested by a certified inspector from an established testing agency in accordance with the project specifications, general notes, or prevailing building code, whichever is more stringent. All material sampling and testing shall be performed in accordance with ASTM requirements. For additional information on material sampling and testing, refer to the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Concrete, reinforcing	✓	Mill certificate in lieu of samples
Concrete, cylinders	✓	
Shotcrete, test panel	✓	Mock-up as noted in plans
Shotcrete, cylinders	✓	
Structural steel, ultrasonic testing		
Structural steel, bend tests on welded studs		
Expansion anchor installation		
Epoxy anchor installation		

STRUCTURAL OBSERVATION

The structural engineer of record, or his designated engineer, shall provide structural observation of the structural system for general conformance to the approval plans and specifications at significant construction stages and at completion of the structural system, as required by CBC Section 1704.5. Written reports shall be submitted to the owner's representative, special inspector, contractor, and building official.

The structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies which, to the best of the structural observers knowledge, have not been resolved.

Structural System Components requiring observation in this project include:

Item	Required	Remarks
Concrete (Placement)	✓	
Reinforcing Steel	✓	
Shear walls and floor systems used as shear diaphragms	✓	
Floor framing	✓	

Structural observation does not include or waive the responsibility of the special inspections required by CBC Sections 1705, or other sections of the code as noted elsewhere in the Contract Documents.

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REGISTERED PROFESSIONAL ENGINEER
BLAKE W. DILSWORTH
No. 3929
STRUCTURAL
STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

GENERAL NOTES

Sheet Title

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes
1			
2			
3			
4			
5			

Drawn MF | Reviewed DR
Date NOVEMBER 10, 2016
Scale AS NOTED
Sheet No. S1.3

11.10.2016 - PLAN CHECK SET

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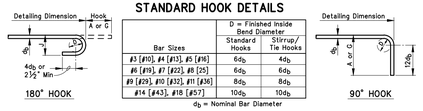
STANDARD HOOK DETAILS

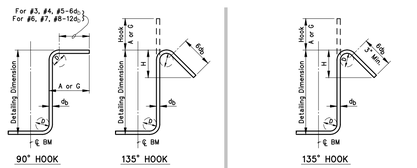


Bar Sizes	D = Finished Inside Bend Diameter: Standard Hooks	D = Finished Inside Bend Diameter: Stirrup/Tie Hooks
#3 [#10], #4 [#13], #5 [#16]	$6d_b$	$4d_b$
#6 [#19], #7 [#22], #8 [25]	$6d_b$	$6d_b$
#9 [#29], #10 [#32], #11 [#36]	$8d_b$	$8d_b$
#14 [#43], #18 [#57]	$10d_b$	$10d_b$

d_b = Nominal Bar Diameter

Bar Sizes	Dimensions of standard 180 degree hooks, all grades: A or G	J	D	Dimensions of standard 90 degree hooks, all grades: A or G	D
#3 [#10]	5"	3"	2¼"	6"	2¼"
#4 [#13]	6"	4"	3"	8"	3"
#5 [#16]	7"	5"	3¾"	10"	3¾"
#6 [#19]	8"	6"	4½"	1'-0"	4½"
#7 [#22]	10"	7"	5¼"	1'-2"	5¼"
#8 [#25]	11"	8"	6"	1'-4"	6"
#9 [#29]	1'-3"	11¼"	9½"	1'-7"	9½"
#10 [#32]	1'-5"	1'-1½"	10¾"	1'-10"	10¾"
#11 [#36]	1'-7"	1'-2¾"	12"	2'-0"	12"
#14 [#43]	2'-3"	1'-9¾"	18¾"	2'-7"	18¾"
#18 [#57]	3'-0"	2'-4½"	24"	3'-5"	24"

[#10] INDICATES METRIC BAR SIZE D = Bend diameter



Stirrup Hooks (Tie Bends Similar)

Bar Size	D	90° A or G	135° A or G	135° Approx H
#3 [#10]	1½"	4"	4"	2½"
#4 [#13]	2"	4½"	4½"	3"
#5 [#16]	2½"	6"	5½"	3¾"
#6 [#19]	4½"	1'-0"	7¾"	4½"
#7 [#22]	5¼"	1'-2"	9"	5¼"
#8 [#25]	6"	1'-4"	10¼"	6"

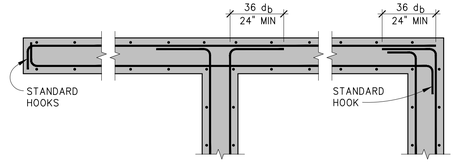
Seismic Stirrup/Tie

Size	D	135° Seismic Hook A or G	135° Seismic Hook Approx H
#3 [#10]	1½"	4½"	3"
#4 [#13]	2"	4½"	3"
#5 [#16]	2½"	5½"	3¾"
#6 [#19]	4½"	7¾"	4½"
#7 [#22]	5¼"	9"	5¼"
#8 [#25]	6"	10¼"	6"

MAXIMUM BAR OFFSET

CONCRETE REINF HOOKS

SCALE: NONE | KPFF K0000 | 1 | S1.4



END CONDITION INTERSECTION CORNER

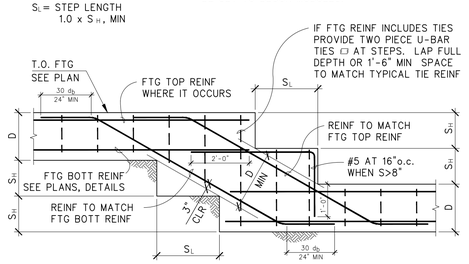
NOTE:
REINFORCEMENT SHOWN ON FOUNDATION DETAILS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

FOOTING REINF

SCALE: NONE | KPFF K0000 | 2 | S1.4

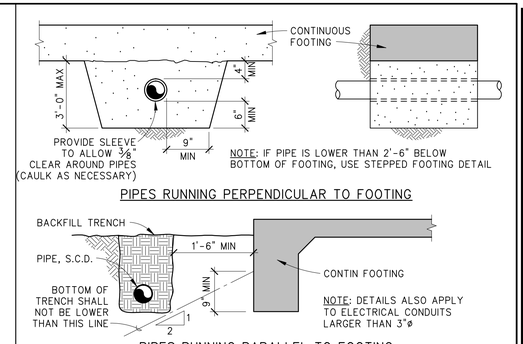
NOTES:
D = DEPTH OF FTG
S_H = STEP HEIGHT 2'-0" MAX
S_L = STEP LENGTH 1.0 x S_H, MIN

NOTE: IF CONCRETE BLOCK CONSTRUCTION OCCURS ON FOOTING, S_H AND S_L SHALL BE SET TO BLOCK MODULES.



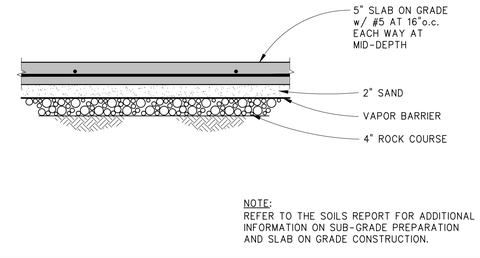
STEPPED FOOTING DETAIL

SCALE: NONE | KPFF K0000 | 3 | S1.4



PIPE TRENCH AT FOOTING

SCALE: NONE | KPFF K0000 | 4 | S1.4

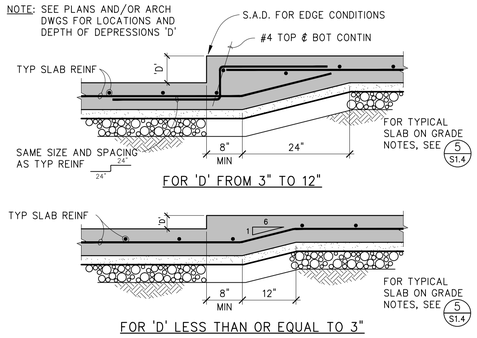


NOTE:
REFER TO THE SOILS REPORT FOR ADDITIONAL INFORMATION ON SUB-GRADE PREPARATION AND SLAB ON GRADE CONSTRUCTION.

SLAB ON GRADE

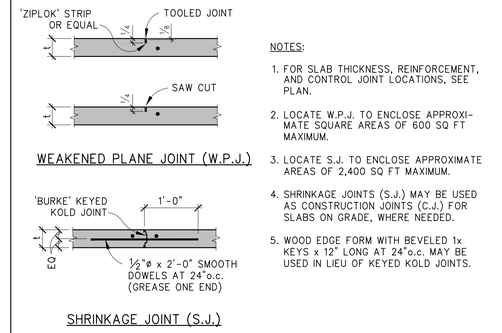
SCALE: NONE | KPFF K0000 | 5 | S1.4

NOTE: SEE PLANS AND/OR ARCH DWGS FOR LOCATIONS AND DEPTH OF DEPRESSIONS 'D'



DEPRESSED SLAB ON GRADE

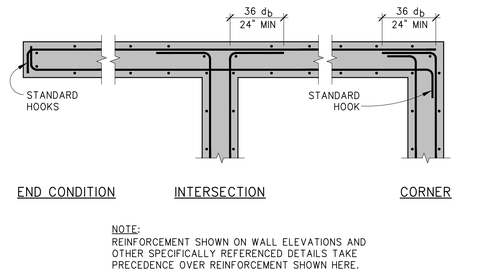
SCALE: NONE | KPFF K0000 | 6 | S1.4



NOTES:
1. FOR SLAB THICKNESS, REINFORCEMENT, AND CONTROL JOINT LOCATIONS, SEE PLAN.
2. LOCATE W.P.J. TO ENCLOSE APPROXIMATE SQUARE AREAS OF 600 SQ FT MAXIMUM.
3. LOCATE S.J. TO ENCLOSE APPROXIMATE AREAS OF 2,400 SQ FT MAXIMUM.
4. SHRINKAGE JOINTS (S.J.) MAY BE USED AS CONSTRUCTION JOINTS (C.J.) FOR SLABS ON GRADE, WHERE NEEDED.
5. WOOD EDGE FORM WITH BEVELED 1x KEYS x 12" LONG AT 24"o.c. MAY BE USED IN LIEU OF KEYED KOLD JOINTS.

S.O.G. CONTROL JOINTS

SCALE: NONE | KPFF K0000 | 7 | S1.4



END CONDITION INTERSECTION CORNER

NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATIONS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

DOUBLE LAYER WALL REINF

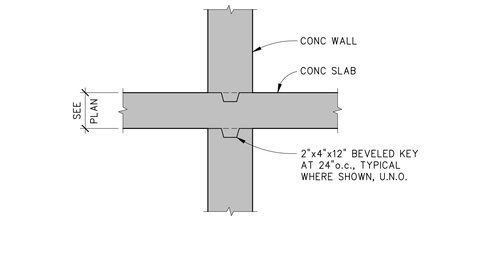
SCALE: NONE | KPFF K0000 | 8 | S1.4

END CONDITION INTERSECTION CORNER

NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATIONS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

DOUBLE LAYER WALL REINF

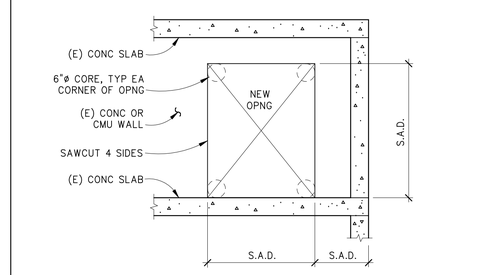
SCALE: NONE | KPFF K0000 | 9 | S1.4



WALL KEY

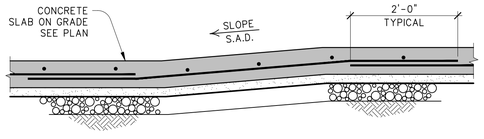
SCALE: NONE | KPFF K1400 | 10 | S0.0

NOTE:
CORE 6"ø HOLES AT EACH CORNER BEFORE SAWCUTTING OPENING. DO NOT OVERCUT CORNERS, CHIP OUT WALL AS REQUIRED TO PROVIDE SQUARE CORNERS.



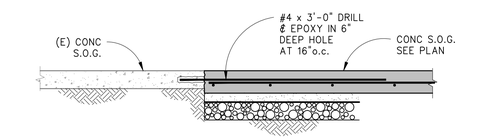
OPENING IN EXISTING WALL

SCALE: NONE | KPFF K1056 | 11 | S1.4



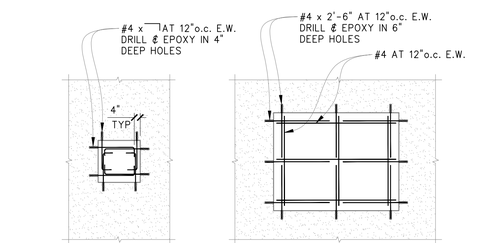
SECTION

SCALE: NONE | KPFF K0000 | 12 | S1.4



DETAIL

SCALE: NONE | KPFF K0000 | 13 | S1.4



SMALL OPENING (LESS THAN 2'-6") LARGE OPENING (GREATER THAN 2'-6")

NOTES:
1. REMOVE LOOSE CONCRETE TO CLEAN SOUND MATERIAL.
2. PROVIDE TWO CURTAINS OF REINFORCEMENT AT WALLS 10" AND THICKER.

INFILL OF (E) WALL OPENING

SCALE: NONE | KPFF K0000 | 14 | S1.4

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10 NOV 2016
DATE SIGNED

Sheet Title: TYPICAL CONCRETE DETAILS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. / EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes
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Date: NOVEMBER 10, 2016
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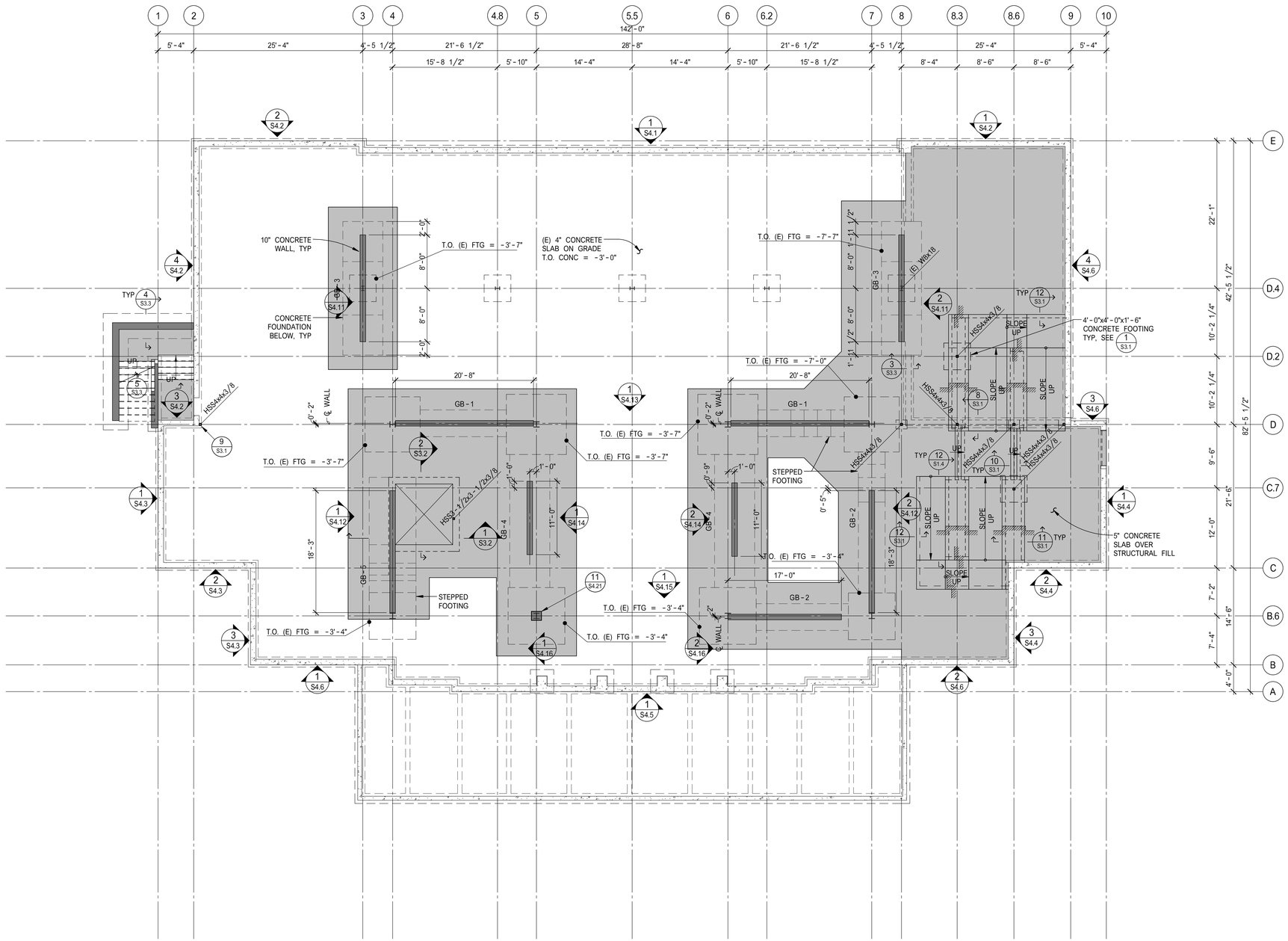

1 FOUNDATION PLAN
Scale: 1/8" = 1'-0"

NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS REFER TO SHEET S0.1
   FOR GENERAL NOTES REFER TO SHEET S1.1
   FOR TYPICAL DETAILS REFER TO SHEET S1.2
   FOR FOUNDATION DETAILS REFER TO SHEET S3.1
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. VERIFY IN FIELD ALL DIMENSIONS OF EXISTING CONSTRUCTION. NOTIFY ARCHITECT OF EXCEPTION PRIOR TO CONSTRUCTION.
4. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
5. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
6. INDICATES SLAB DEPRESSIONS, FOR DEPTH AND SLOPE S.A.D.
   INDICATES FILL SLABS, S.A.D.
7. FOR AREA DRAIN AND SUMP LOCATIONS, S.A.D.
9. SHORING AND UNDERPINNING OF EXISTING CONSTRUCTION, WHEN REQUIRED, SHALL BE DESIGNED BY OTHERS.
10. VERIFY ELEVATOR OPENINGS AND PIT DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.
11. TOP OF CONCRETE S.O.G. EL. = -3'-0", U.N.O., WHERE 0'-0" = 72.19', SEE CIVIL DRAWINGS.
12. ' S.J. ' INDICATES SHRINKAGE JOINT IN S.O.G., SEE 7/S1.4
    ' W.P.J. ' INDICATES WEAKENED PLANE JOINT IN S.O.G., SEE 7/S1.4
13. HSS INDICATES STEEL POST ABOVE FLOOR FRAMING
14. FOR SITE WALLS SEE 4/S3.3 FOR LOCATIONS AND GRADES. SEE CIVIL DRAWINGS.

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Sheet Title: FOUNDATION PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes
1			
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Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S2.1

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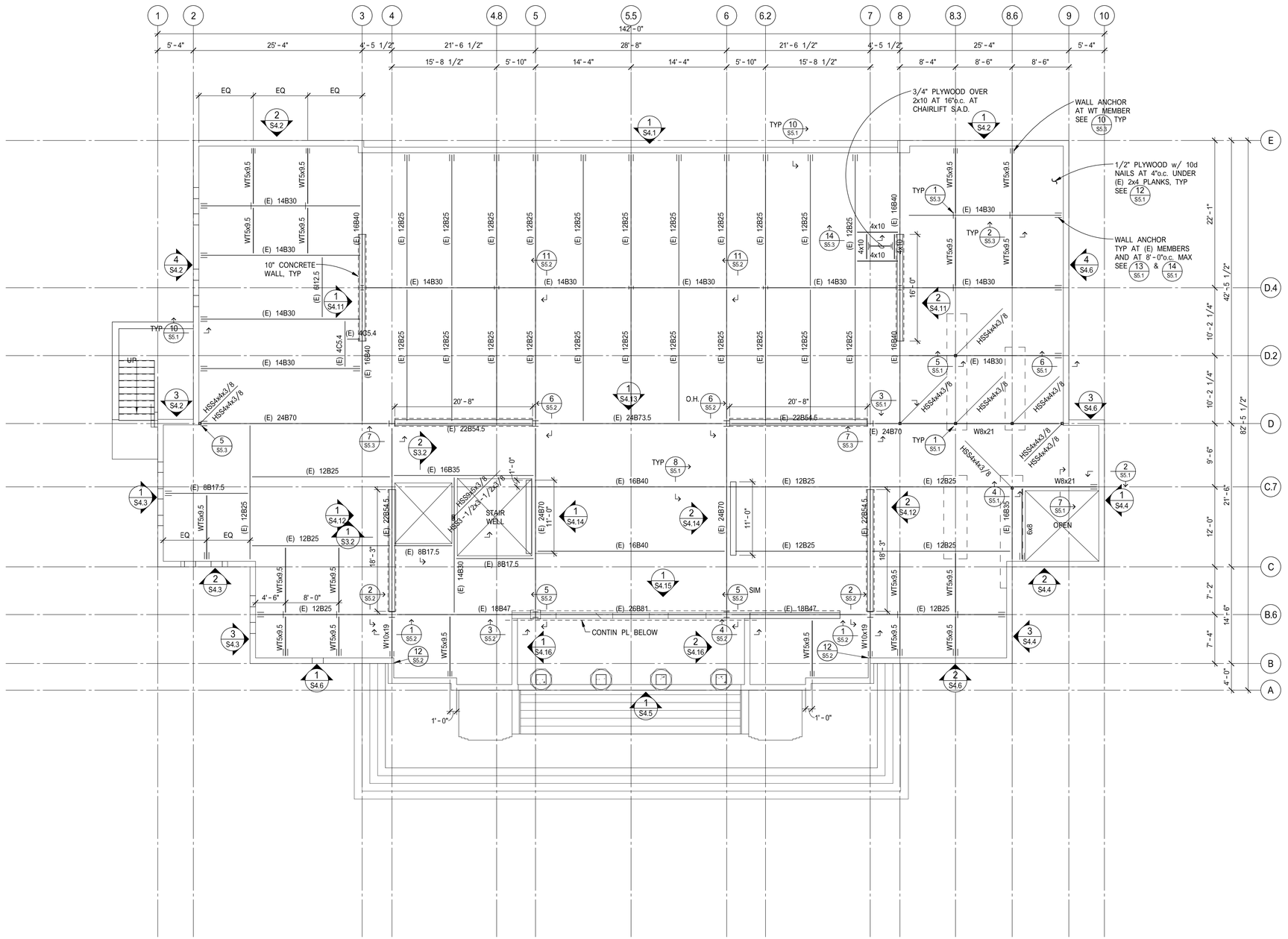
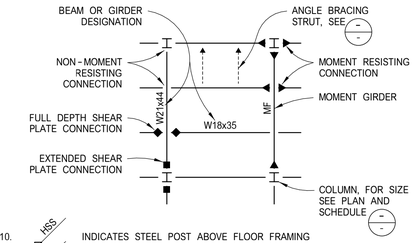


1 FIRST FLOOR FRAMING PLAN
Scale: 1/8" = 1'-0"

NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS REFER TO SHEET S0.1
   FOR GENERAL NOTES REFER TO SHEET S1.1
   FOR TYPICAL DETAILS REFER TO SHEET S1.4
   FOR FLOOR FRAMING DETAILS REFER TO SHEETS S5.1 THRU S5.3
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. FOR LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS, SEE ARCHITECTURAL DRAWINGS.
4. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
5. INDICATES SLAB DEPRESSIONS, FOR DEPTH AND SLOPE S.A.D.
   INDICATES FILL SLABS, S.A.D.
6. FOR AREA DRAIN LOCATIONS, S.A.D.
7. VERIFY ELEVATOR OPENINGS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.
8. a. NOMINAL FINISH FLOOR ELEVATION = +8'-0", U.N.O., WHERE 0'-0" = 72.17', SEE CIVIL DRAWINGS.
   b. TOP OF STEEL (T.O.S.) = -6" NOMINALLY, U.N.O.
   c. -2" INDICATES T.O.S. RELATIVE TO NOMINAL T.O.S.
9. STEEL FRAMING AND CONNECTIONS ARE SHOWN ON PLAN AS THUS:



10. HSS / HSS INDICATES STEEL POST ABOVE FLOOR FRAMING
    HSS / HSS INDICATES STEEL POST BELOW FLOOR FRAMING
14. FOR SITE WALLS SEE 4/S3.3 FOR LOCATIONS AND GRADES. SEE CIVIL DRAWINGS.

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Sheet Title: FIRST FLOOR FRAMING PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S2.2

11.10.2016 - PLAN CHECK SET

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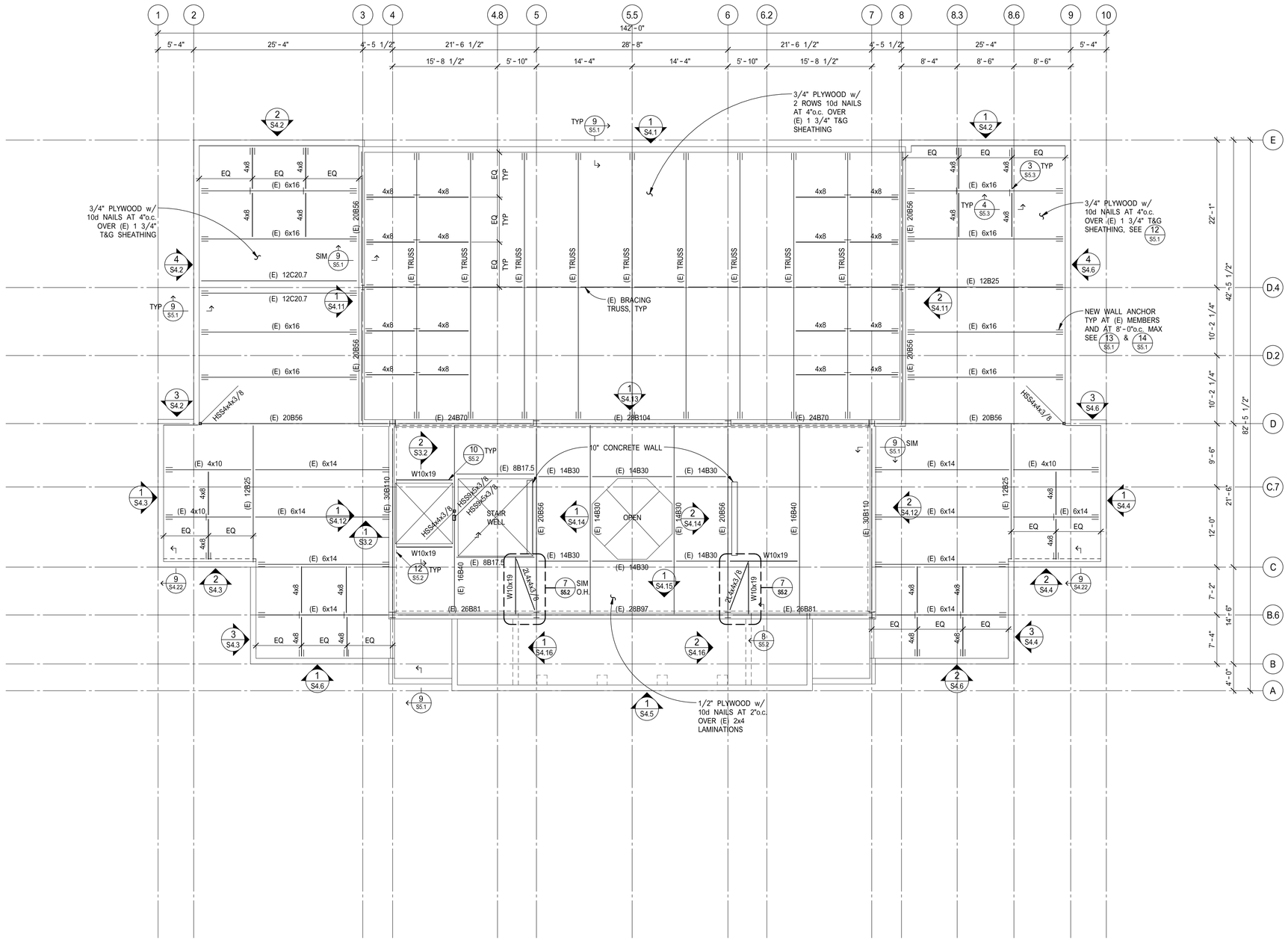
NOTES:

1. FOR SHEET NOTES, SEE SHEET S2.2
2. PROVIDE SEISMIC BRACING AT ALL SUSPENDED CEILINGS EXCEPT MEMORIAL HALL. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SUSPENDED CEILINGS. FOR BRACING DETAIL SEE 13/S5.3.



1 ROOF & MEZZANINE FLOOR FRAMING PLAN
Scale: 1/8" = 1'-0"

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Sheet Title
ROOF & MEZZANINE & FLOOR FRAMING PLAN

Project Title
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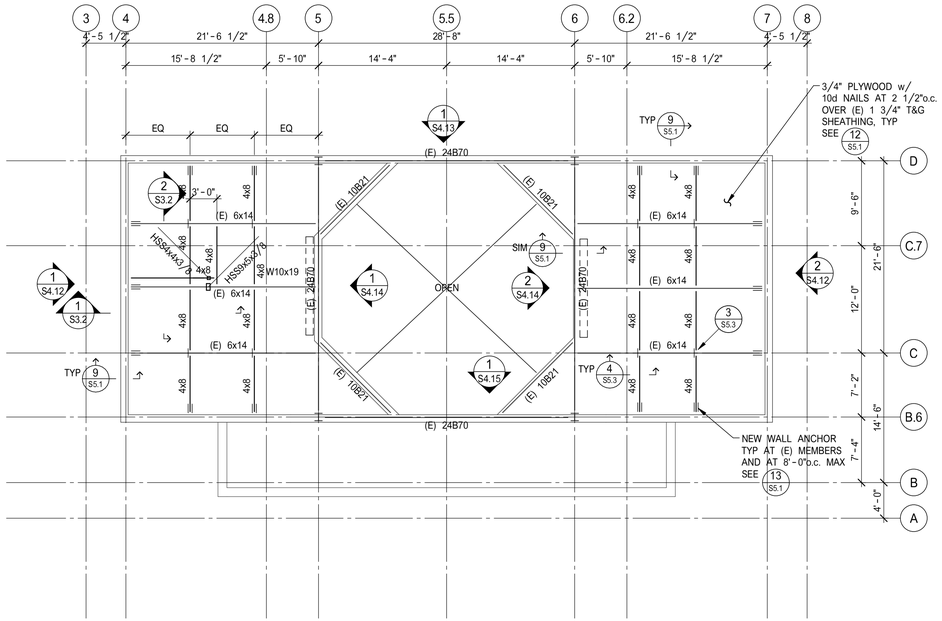
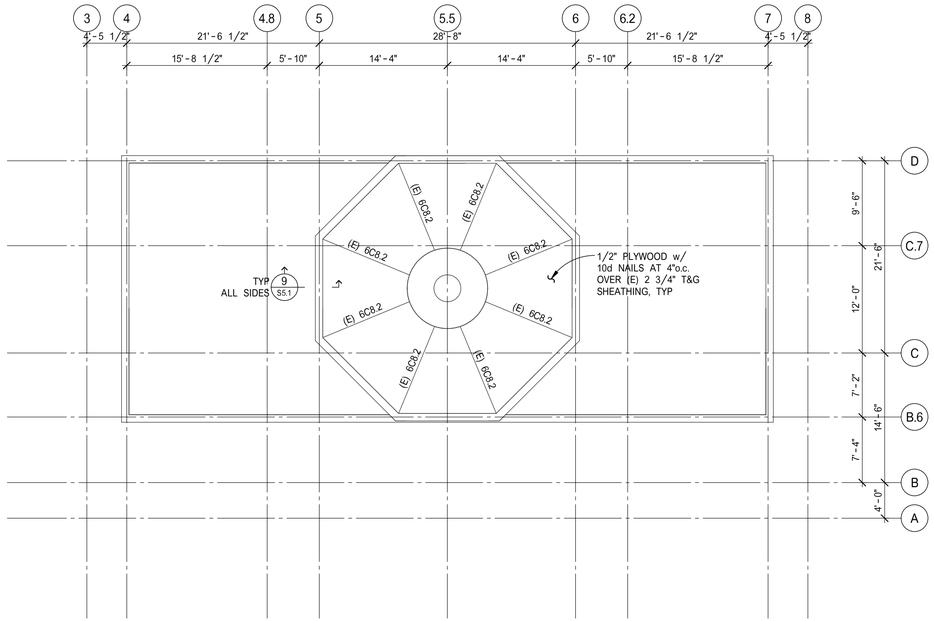


1 ROOF FRAMING OVER MEZZANINE
Scale: 1/8" = 1'-0"



2 DOME FRAMING
Scale: 1/8" = 1'-0"

NOTES:
1. FOR SHEET NOTES, SEE SHEET S2.2

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Sheet Title
ROOF & DOME FRAMING PLANS

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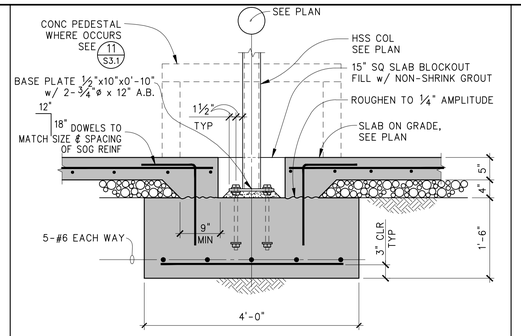
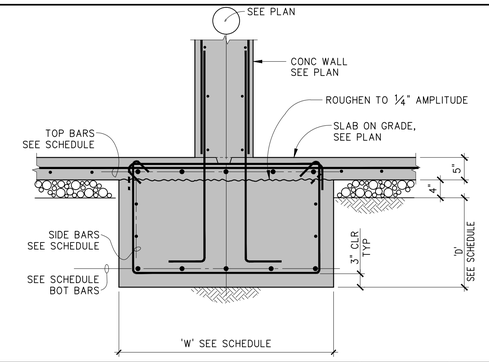
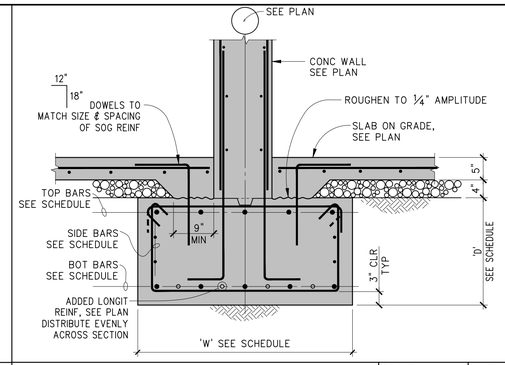


TYPICAL COLUMN FOUNDATION

SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 1 — S3.1



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 2 — S3.1

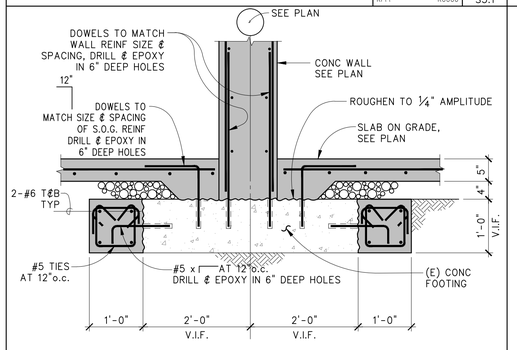


SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 3 — S3.1

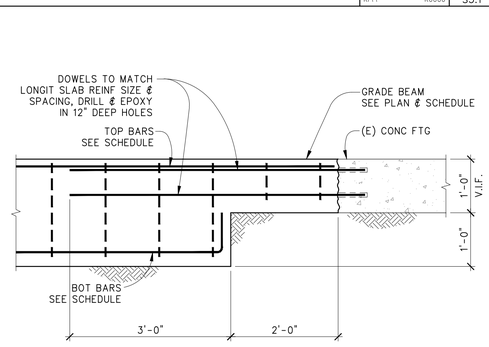
MARK	WIDTH 'W'	DEPTH 'D'	LONGIT REINF	TRANS REINF	SIDE BARS	DETAIL	REMARKS
GB-1	4'-0"	1'-6"	5-#6 T&B	#5 AT 12"o.c.		3/S3.1	
GB-2	4'-0"	1'-6"	5-#8 T&B	#5 AT 12"o.c.		2/S3.1	
GB-3	6'-0"	2'-0"	7-#6 T&B	#5 AT 12"o.c.	#5 AT 12"o.c.	3/S3.1	
GB-4	6'-0"	2'-0"	10-#8 T&B	#6 AT 12"o.c.	#5 AT 12"o.c.	2/S3.1	
GB-5	7'-0"	2'-0"	8-#6 T&B	#5 AT 12"o.c.	#5 AT 12"o.c.	3/S3.1	

NOTE:
1. LAP LONGITUDINAL BARS 50db

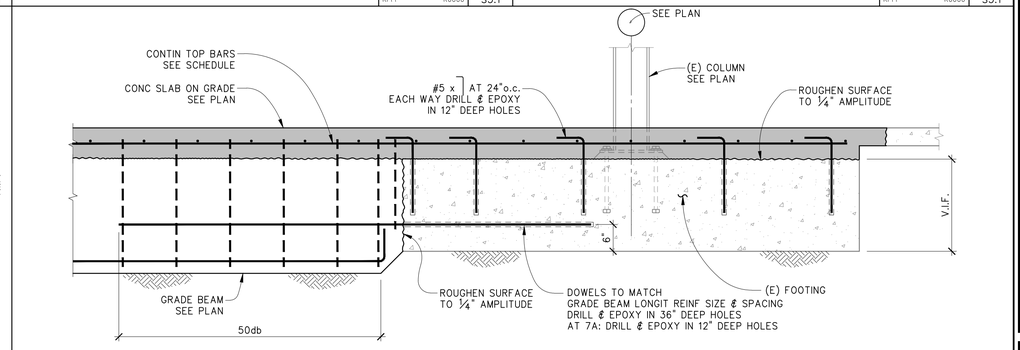
GRADE BEAM SCHEDULE — SCALE: NONE — KPFF K0000 — 4 — S3.1



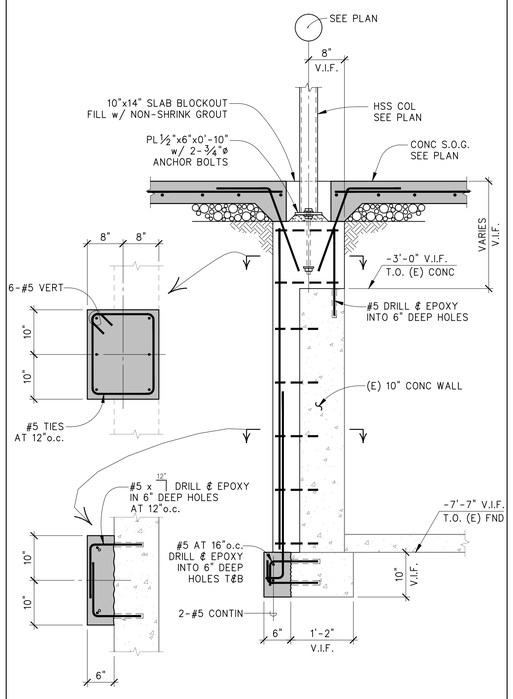
SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 5 — S3.1



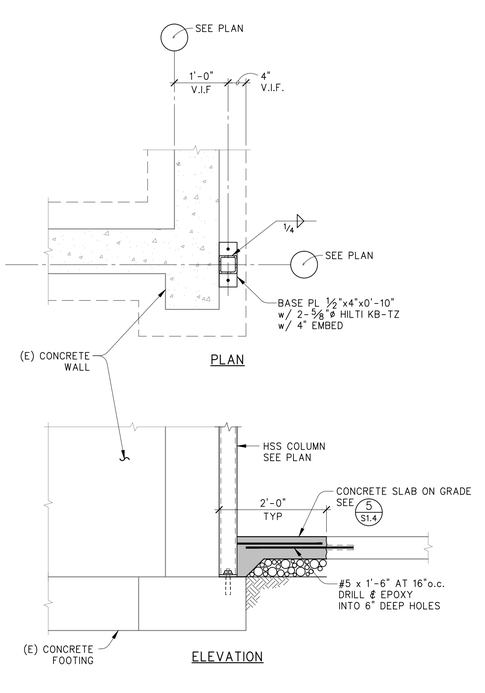
SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 6 — S3.1



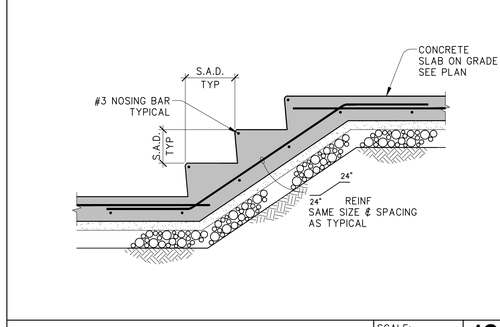
SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 7 — 7A — S3.1



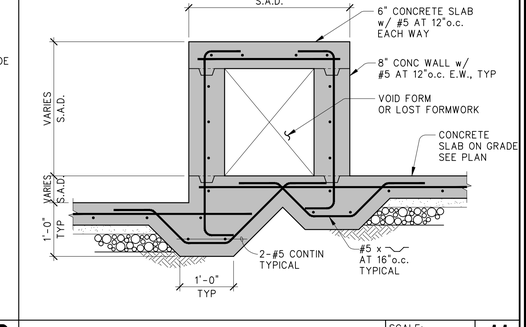
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 8 — S3.1



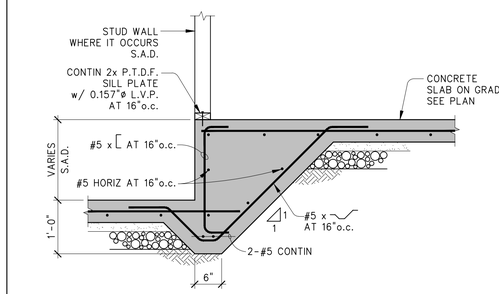
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 9 — S3.1



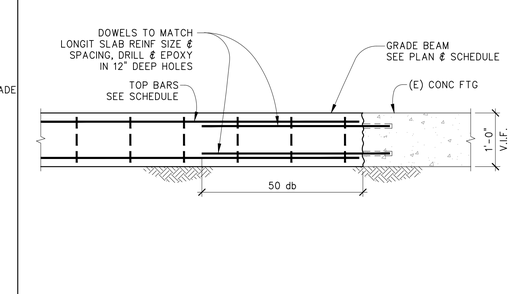
SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 10 — S3.1



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 11 — S3.1



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 12 — S3.1



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 13 — S3.1

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DATE SIGNED

FOUNDATION DETAILS AND SCHEDULE

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

210502

Project ID

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Drawn: FC | Reviewed: DR
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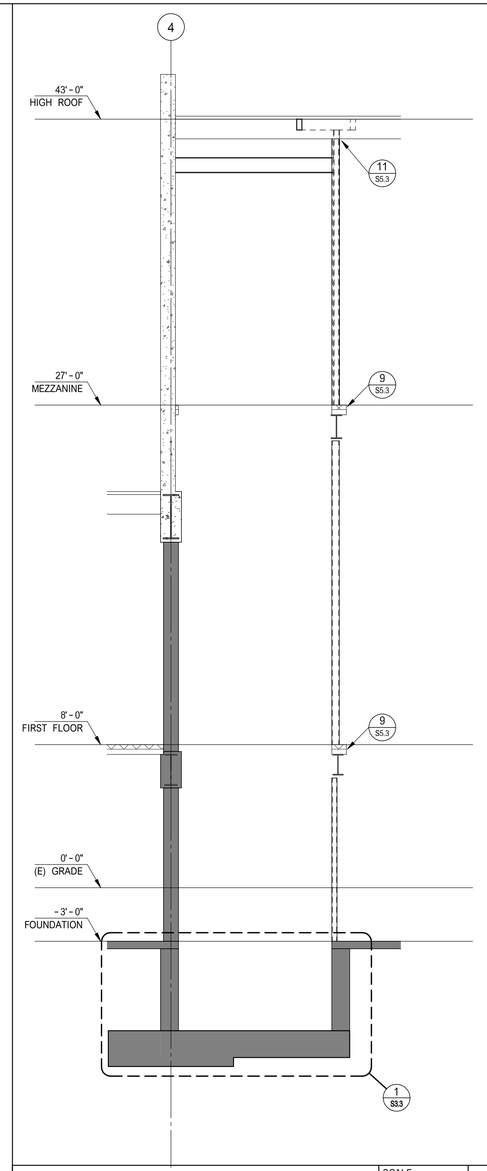
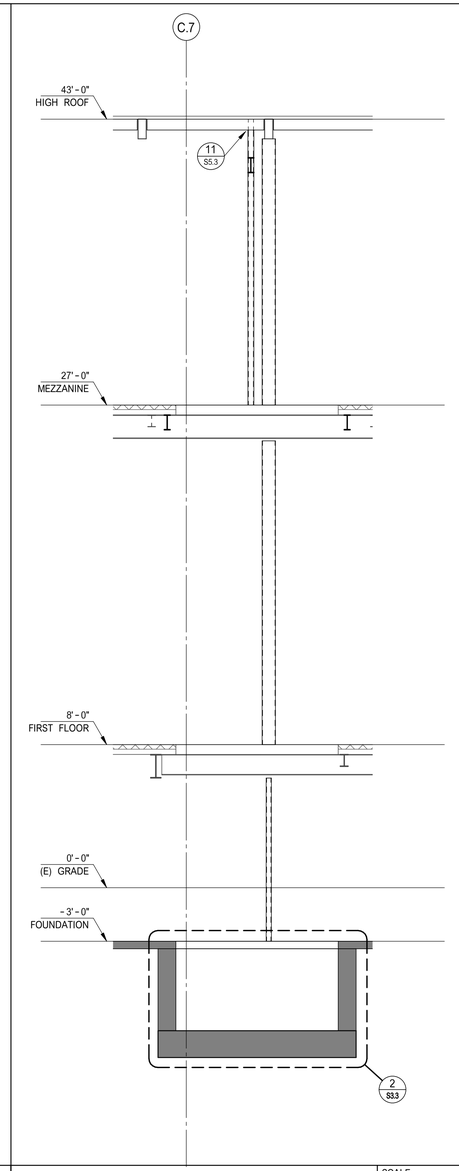


WALL SECTION

SCALE: 1/4" = 1'-0"

1

KPFF K0000 S3.2



WALL SECTION

SCALE: 1/4" = 1'-0"

2

KPFF K0000 S3.2

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Sheet Title: WALL SECTIONS

Project Title: **EUREKA VETERANS MEMORIAL BUILDING**
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1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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Date: NOVEMBER 10, 2016

Scale: AS NOTED

Sheet No.: S3.2

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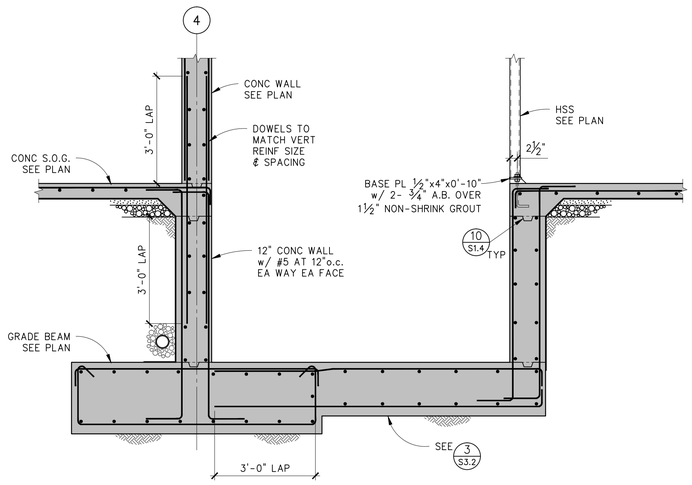
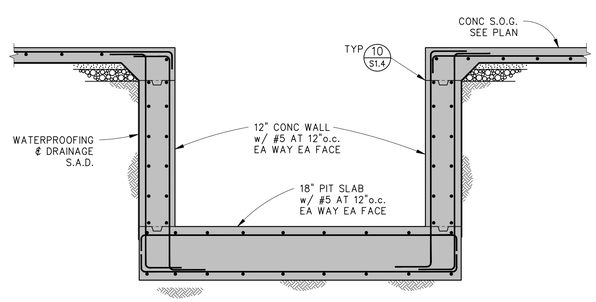


ELEVATOR PIT

SECTION

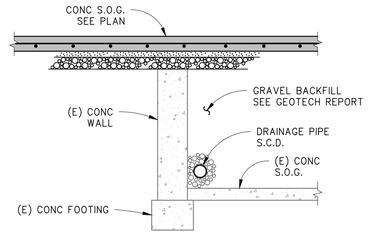
SCALE: 1/2" = 1'-0" | KPFF K0000 | 1 | S3.3



ELEVATOR PIT

SECTION

SCALE: 1/2" = 1'-0" | KPFF K0000 | 2 | S3.3

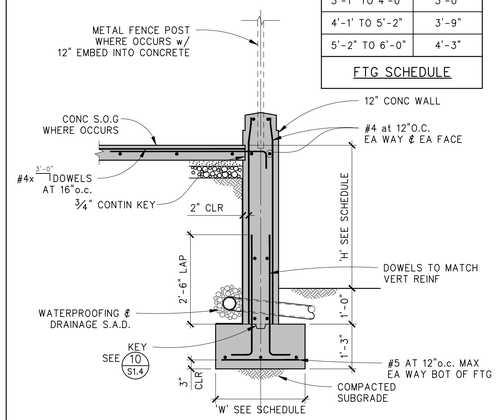


SECTION

SCALE: 1/2" = 1'-0" | KPFF K0000 | 3 | S3.3

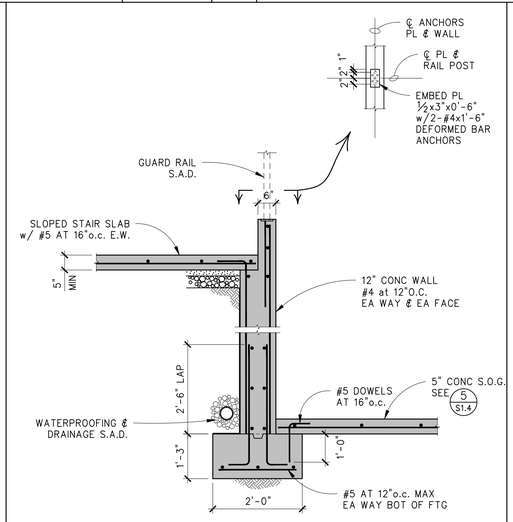
'H'	'W'
UP TO 2'-0"	1'-6"
2'-1" TO 3'-0"	2'-3"
3'-1" TO 4'-0"	3'-0"
4'-1' TO 5'-2"	3'-9"
5'-2" TO 6'-0"	4'-3"

FTG SCHEDULE



SITE WALL SECTION

SCALE: 1/2" = 1'-0" | KPFF K0000 | 4 | S3.3



SECTION

SCALE: 1/2" = 1'-0" | KPFF K0000 | 5 | S3.3

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☐ ALL SECTIONS ☐ DETAILS

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
• SEISMIC REPAIRS PROJECT •
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

210502

Project ID

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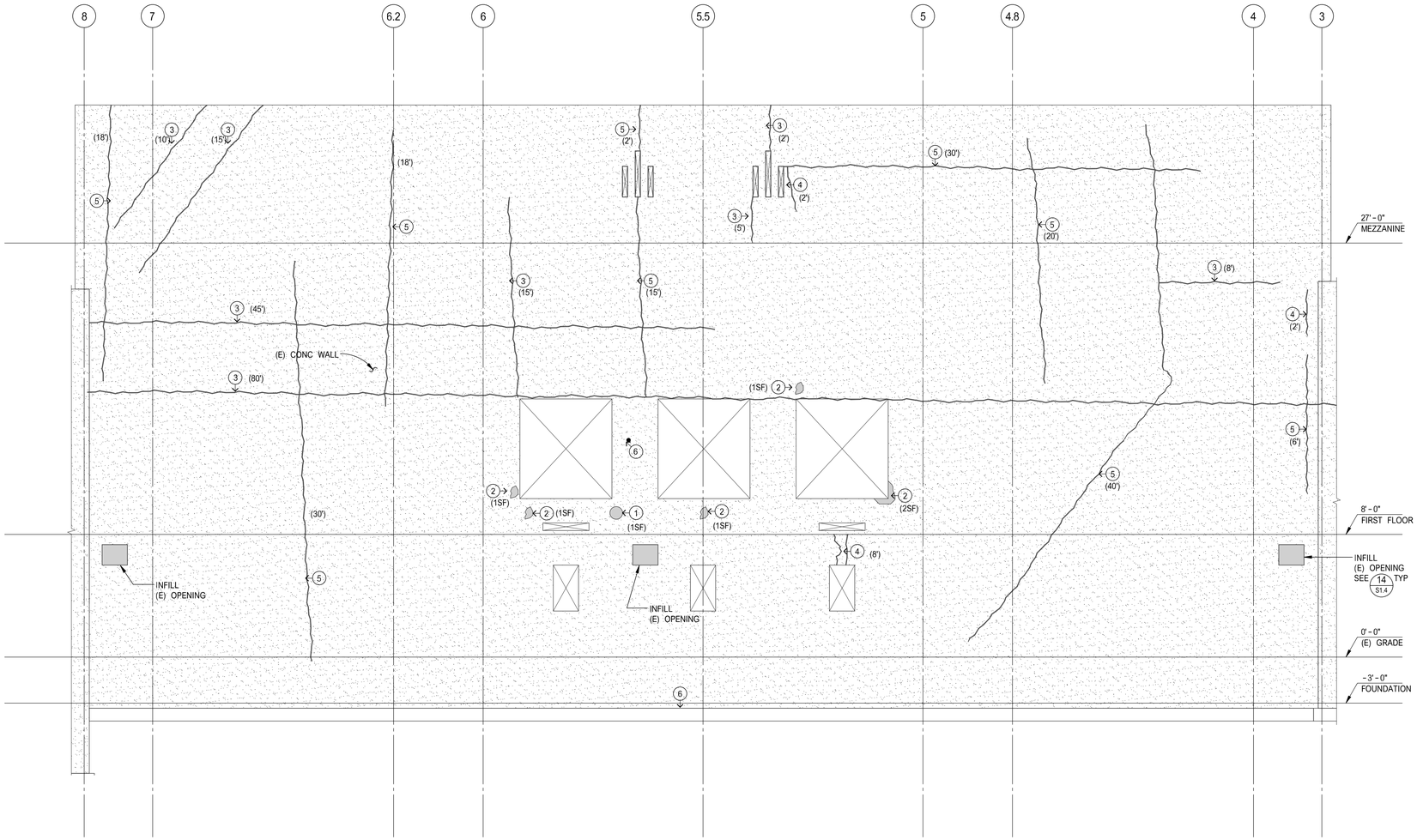

1 EXTERIOR WALL ELEVATION - GRID LINE E
Scale: 1/4" = 1'-0"

NOTES:

1. (1) 2SF INDICATES APPROXIMATE DAMAGE LOCATION, LENGTH OR SQUARE FOOTAGE & REPAIR TYPE, SEE 4/S4.20

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S4.1

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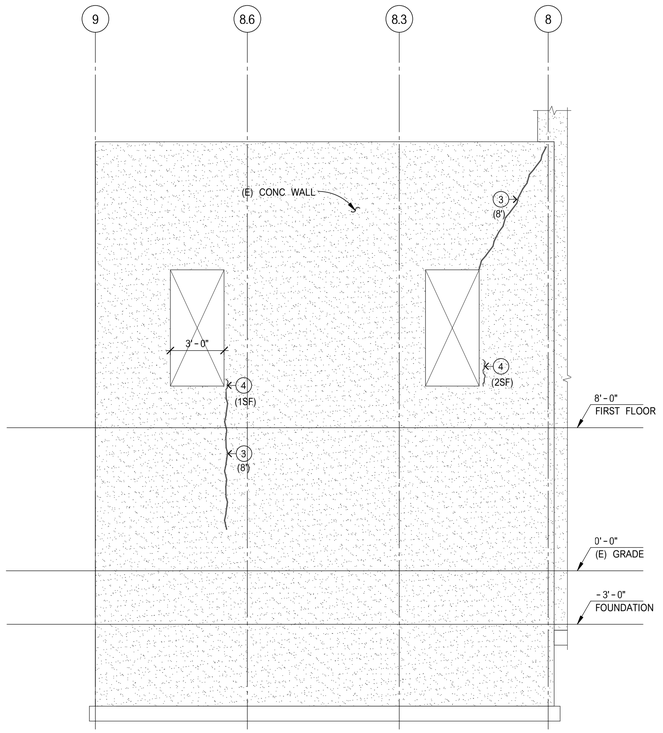
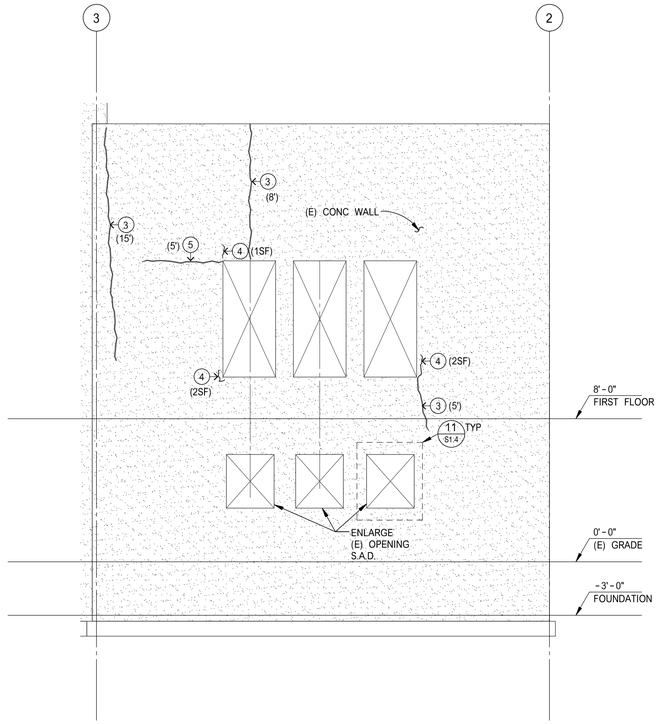


1 EXTERIOR WALL ELEVATION - GRID LINE E
Scale: 1/4" = 1'-0"



2 EXTERIOR WALL ELEVATION - GRID LINE E
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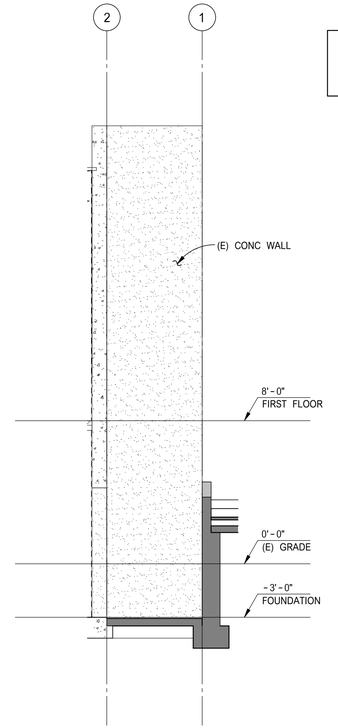
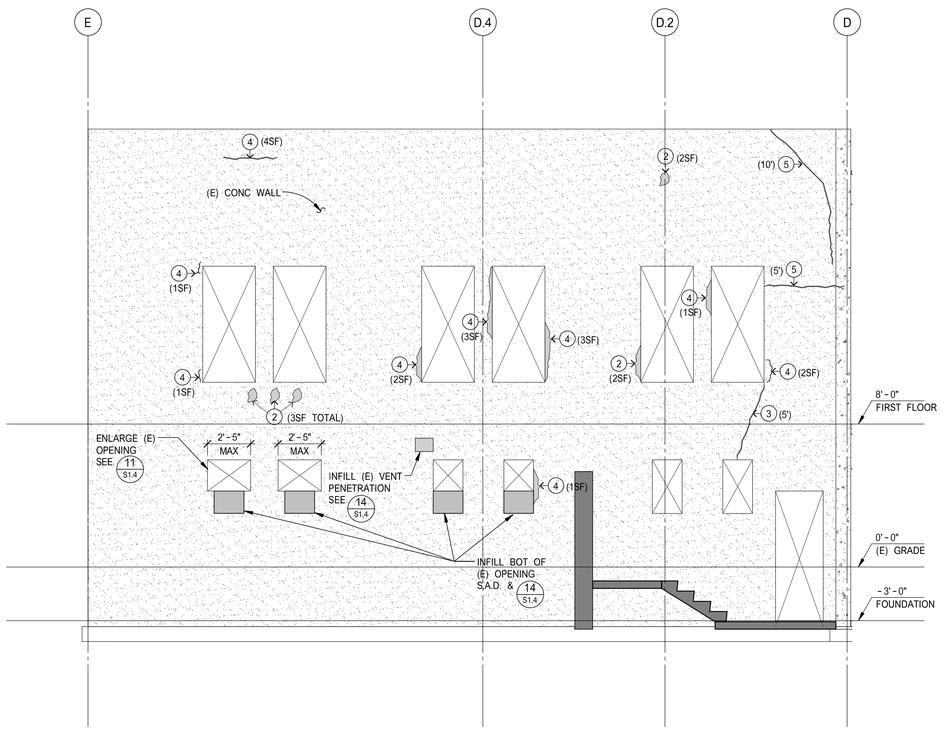


3 EXTERIOR WALL ELEVATION - GRID LINE D
Scale: 1/4" = 1'-0"



4 EXTERIOR WALL ELEVATION - GRID LINE 2
Scale: 1/4" = 1'-0"

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S4.2

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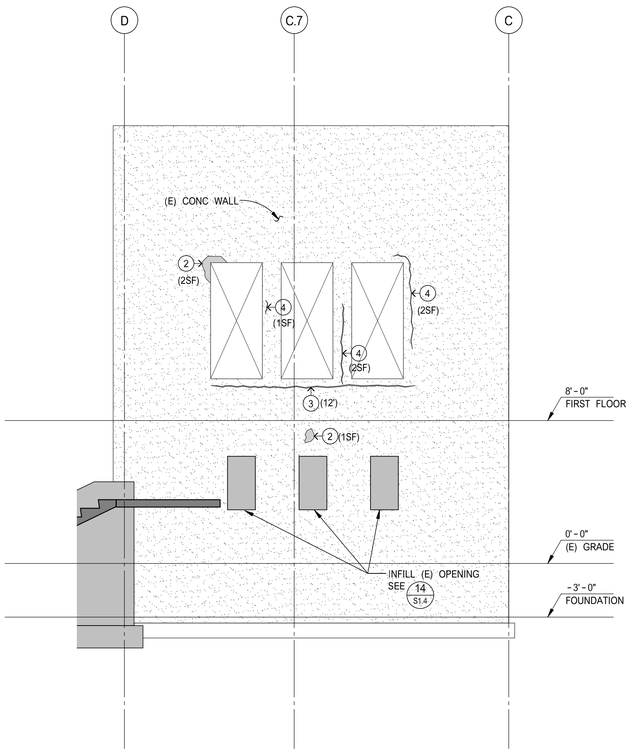
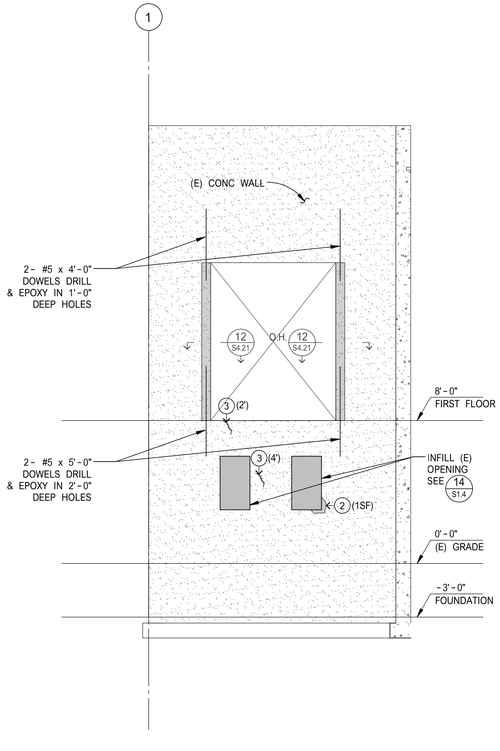
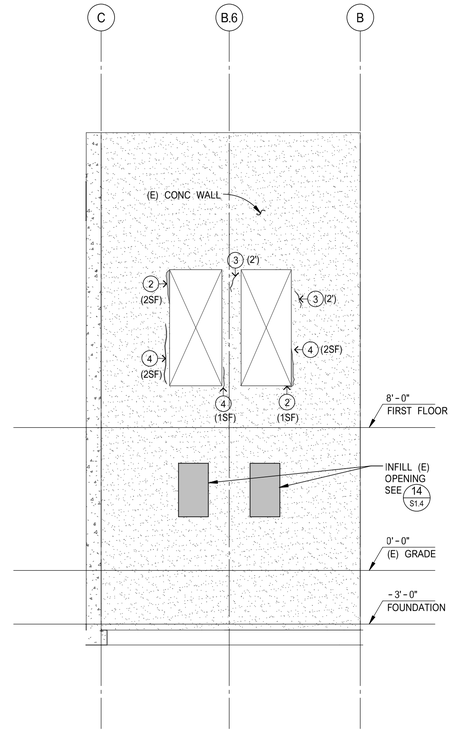


1 EXTERIOR WALL ELEVATION - GRID LINE 1
Scale: 1/4" = 1'-0"



2 EXTERIOR WALL ELEVATION - GRID LINE C
Scale: 1/4" = 1'-0"



3 EXTERIOR WALL ELEVATION - GRID LINE 2.3
Scale: 1/4" = 1'-0"

NOTES:

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Date NOVEMBER 10, 2016

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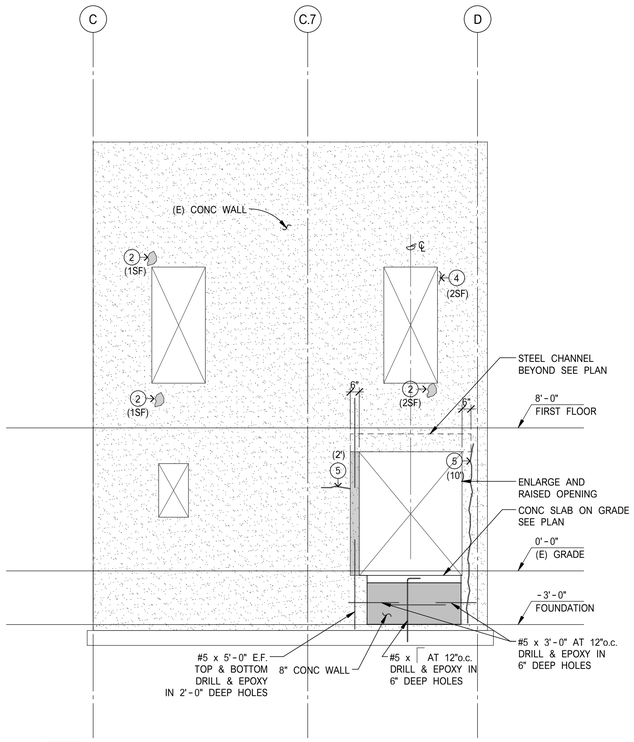

1 EXTERIOR WALL ELEVATION - GRID LINE 10
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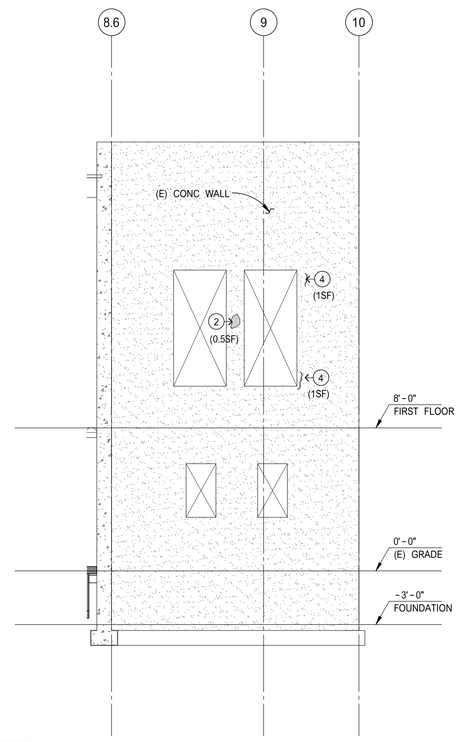

2 EXTERIOR WALL ELEVATION - GRID LINE C
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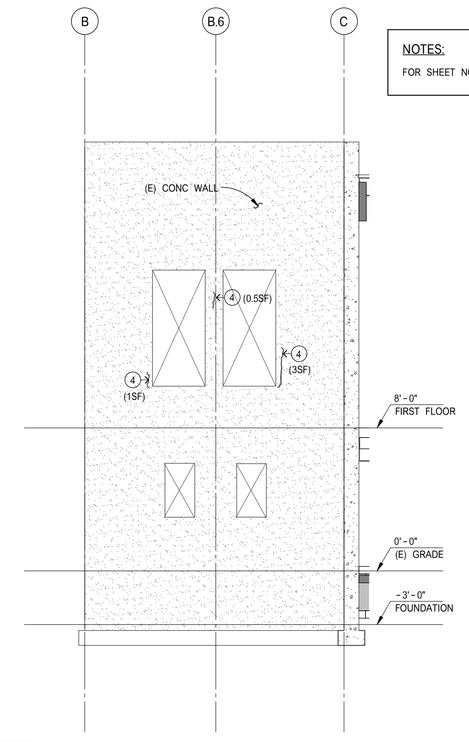

3 EXTERIOR WALL ELEVATION - GRID LINE 8.6
Scale: 1/4" = 1'-0"

NOTES:

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NOTES:

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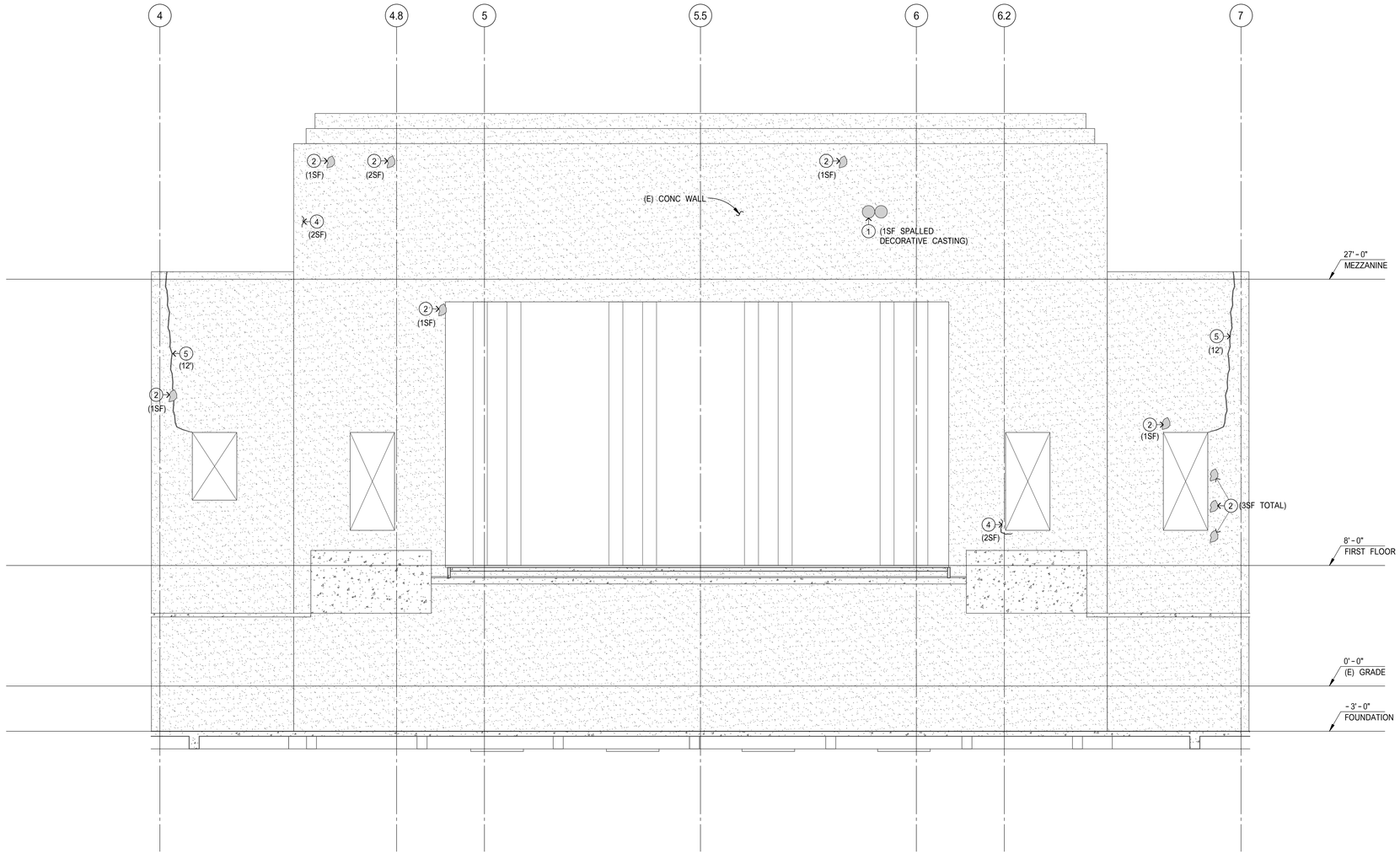

1 EXTERIOR WALL ELEVATION - GRID LINE A
Scale: 1/4" = 1'-0"

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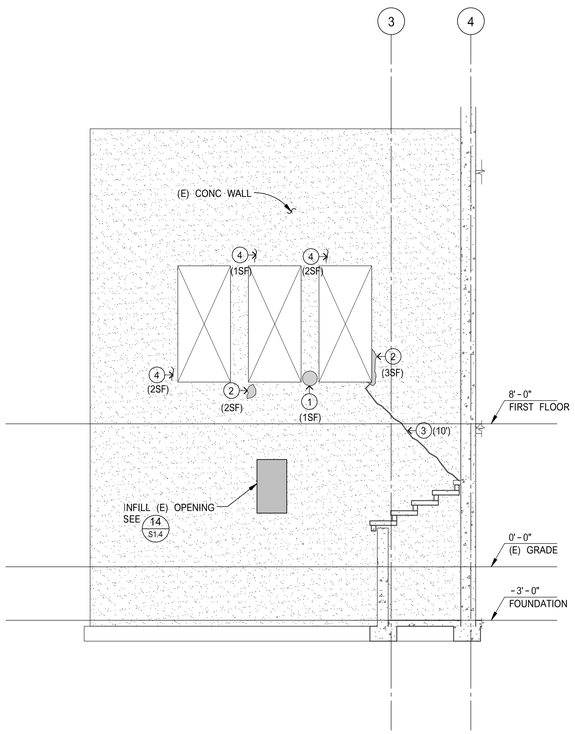
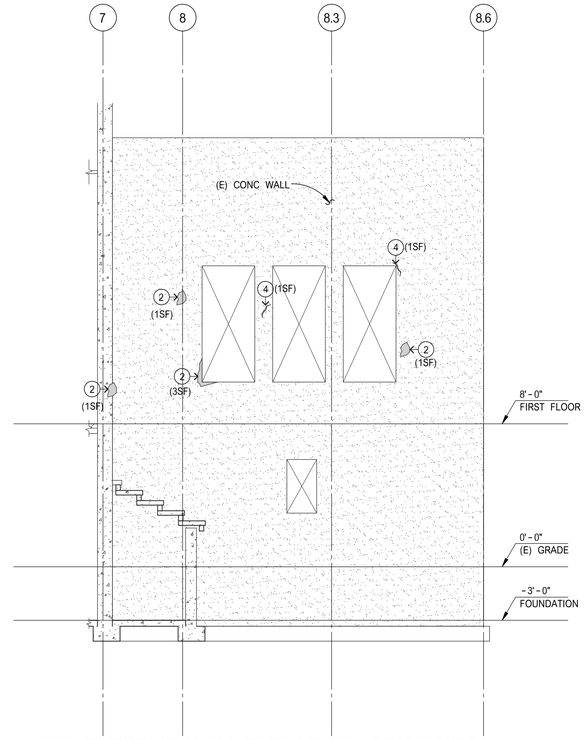
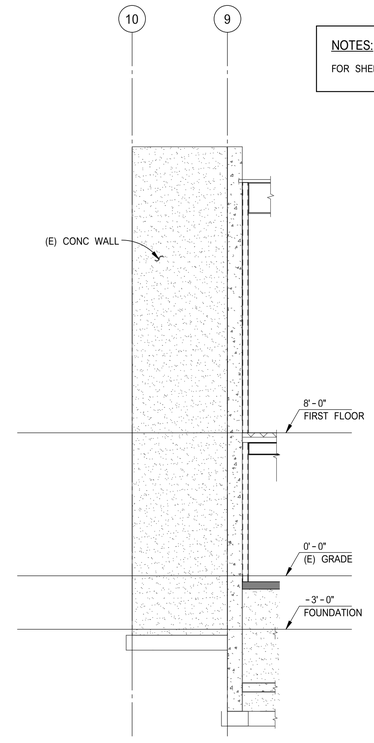


1 EXTERIOR WALL ELEVATION - GRID LINE B
Scale: 1/4" = 1'-0"

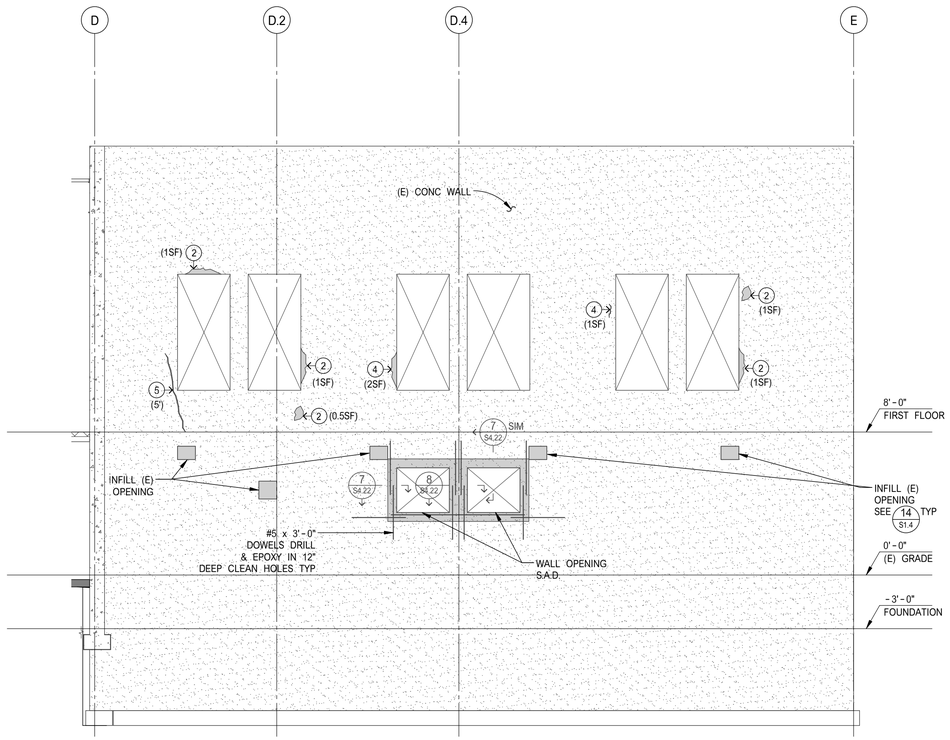


2 EXTERIOR WALL ELEVATION - GRID LINE B
Scale: 1/4" = 1'-0"



3 EXTERIOR WALL ELEVATION - GRID LINE D
Scale: 1/4" = 1'-0"

NOTES:
FOR SHEET NOTES SEE S4.1



4 EXTERIOR WALL ELEVATION - GRID LINE 9
Scale: 1/4" = 1'-0"

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Sheet Title
EXTERIOR BUILDING ELEVATIONS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
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NOTES:

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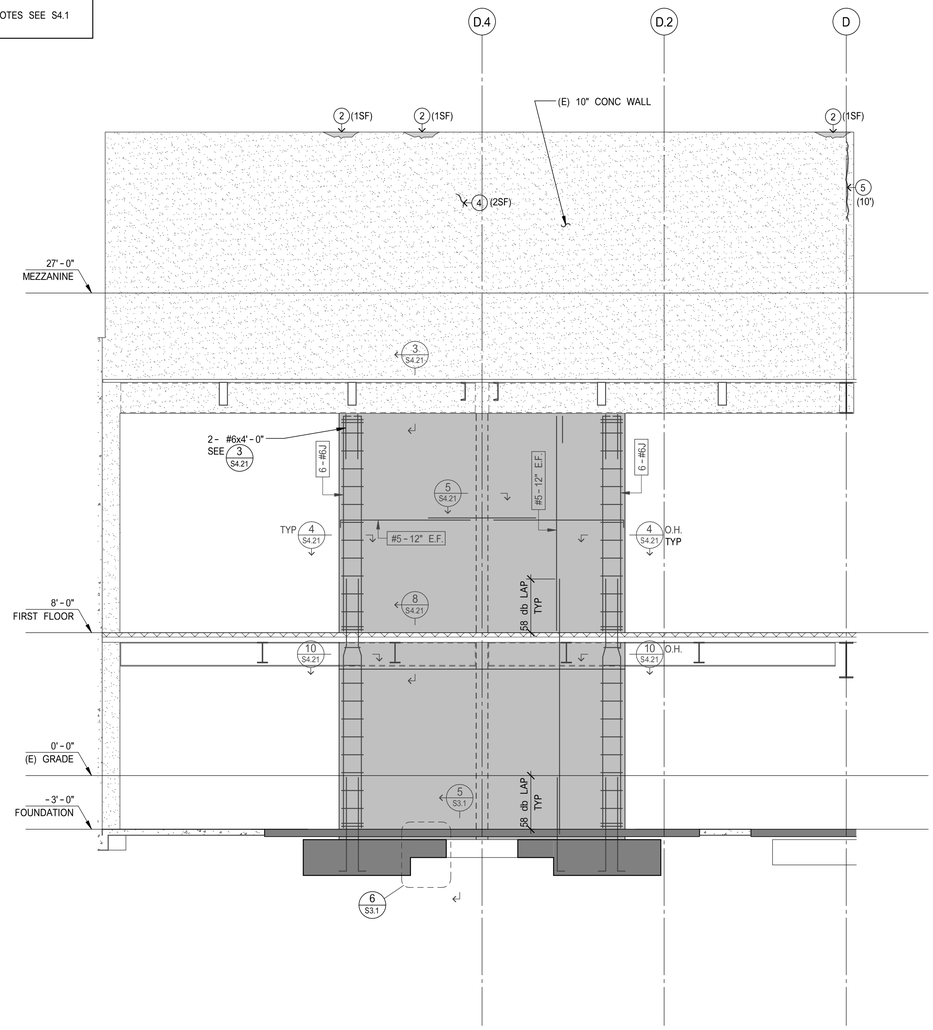
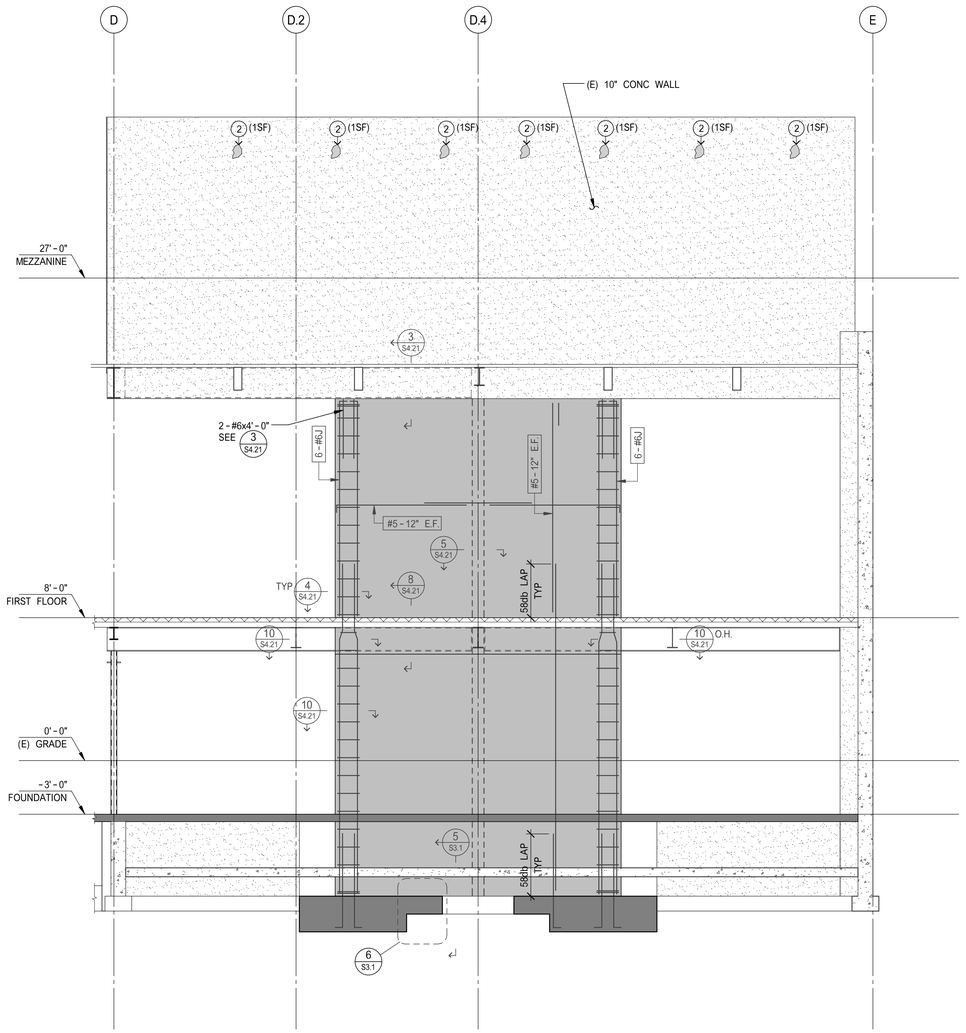


1 WALL ELEVATION AT GRID LINE 3

Scale: 1/4" = 1'-0"



2 WALL ELEVATION AT GRID LINE 8

Scale: 1/4" = 1'-0"

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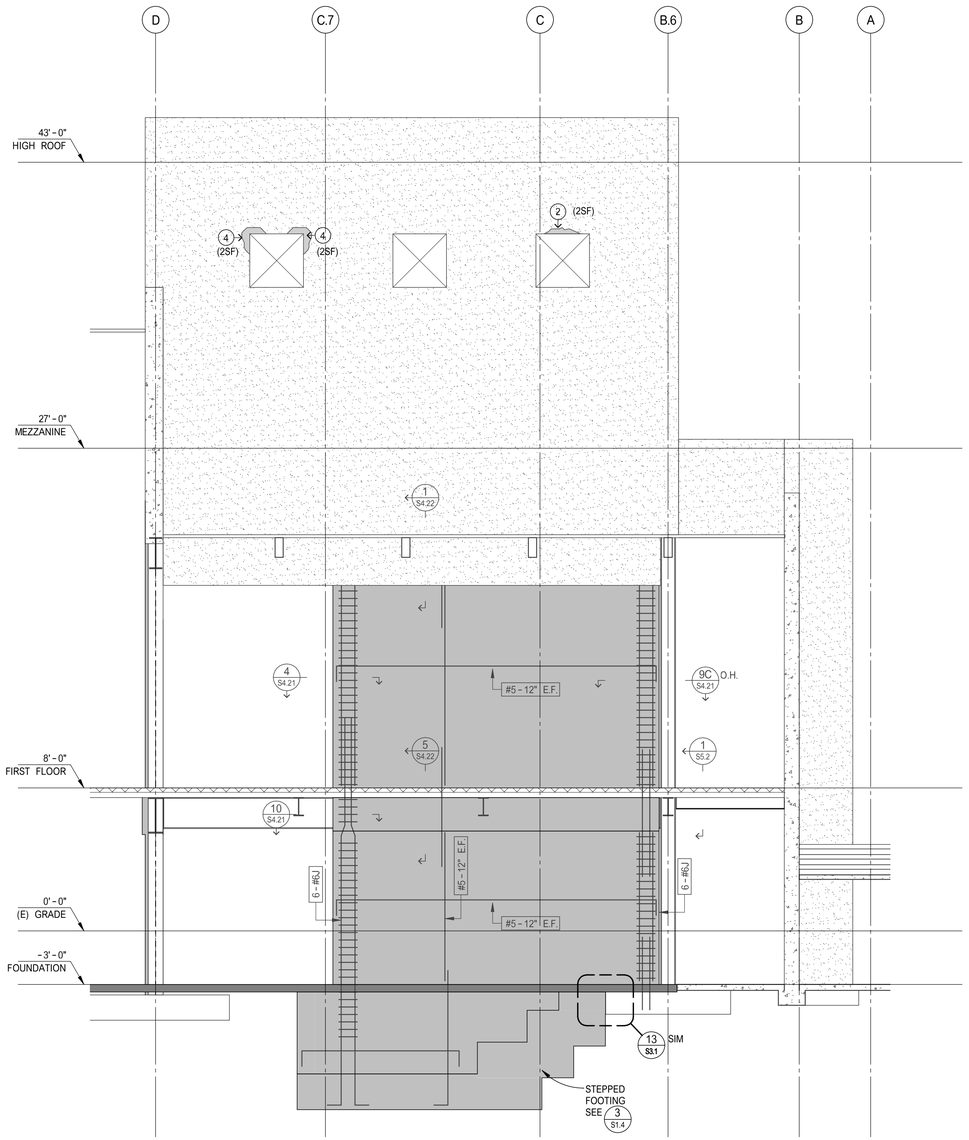
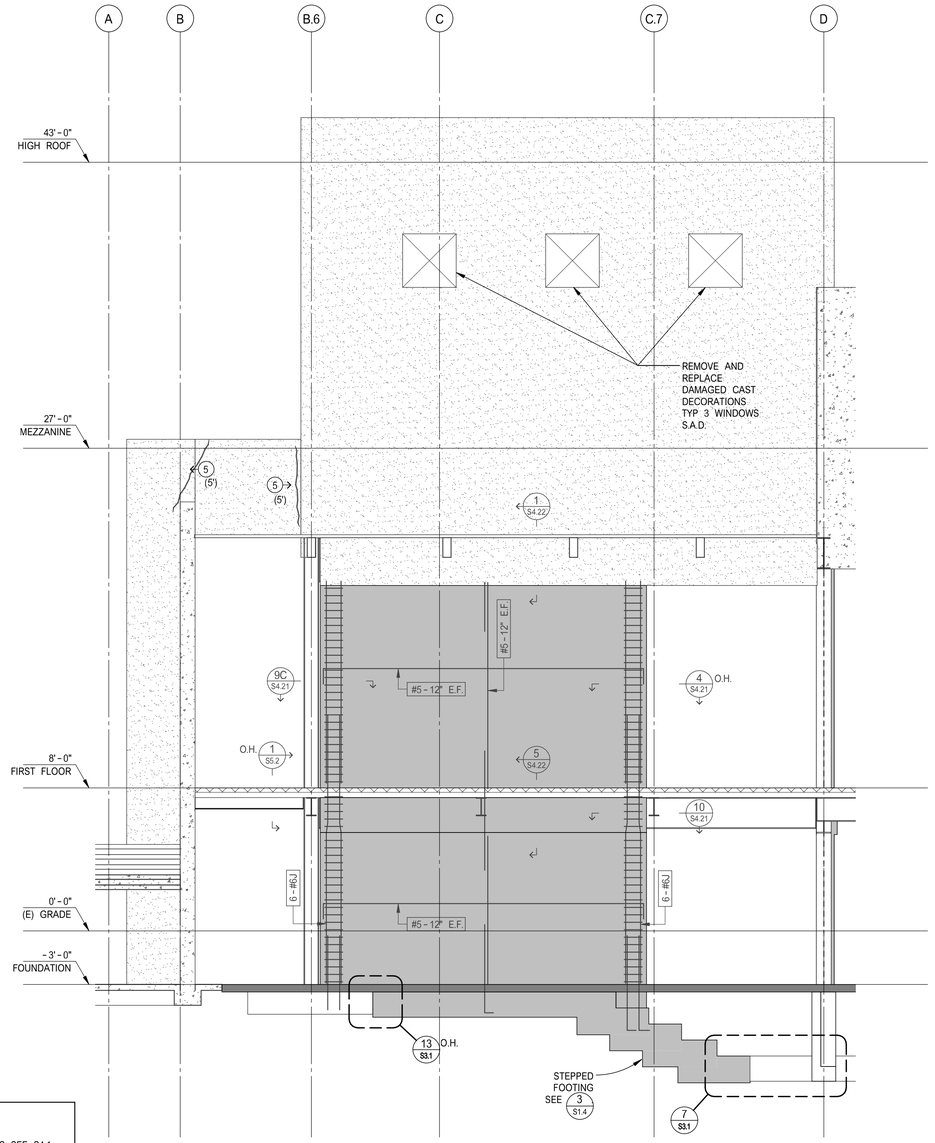


1 WALL ELEVATION AT GRID LINE 4
Scale: 1/4" = 1'-0"



NOTES:

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2 WALL ELEVATION AT GRID LINE 7
Scale: 1/4" = 1'-0"

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NOTES:

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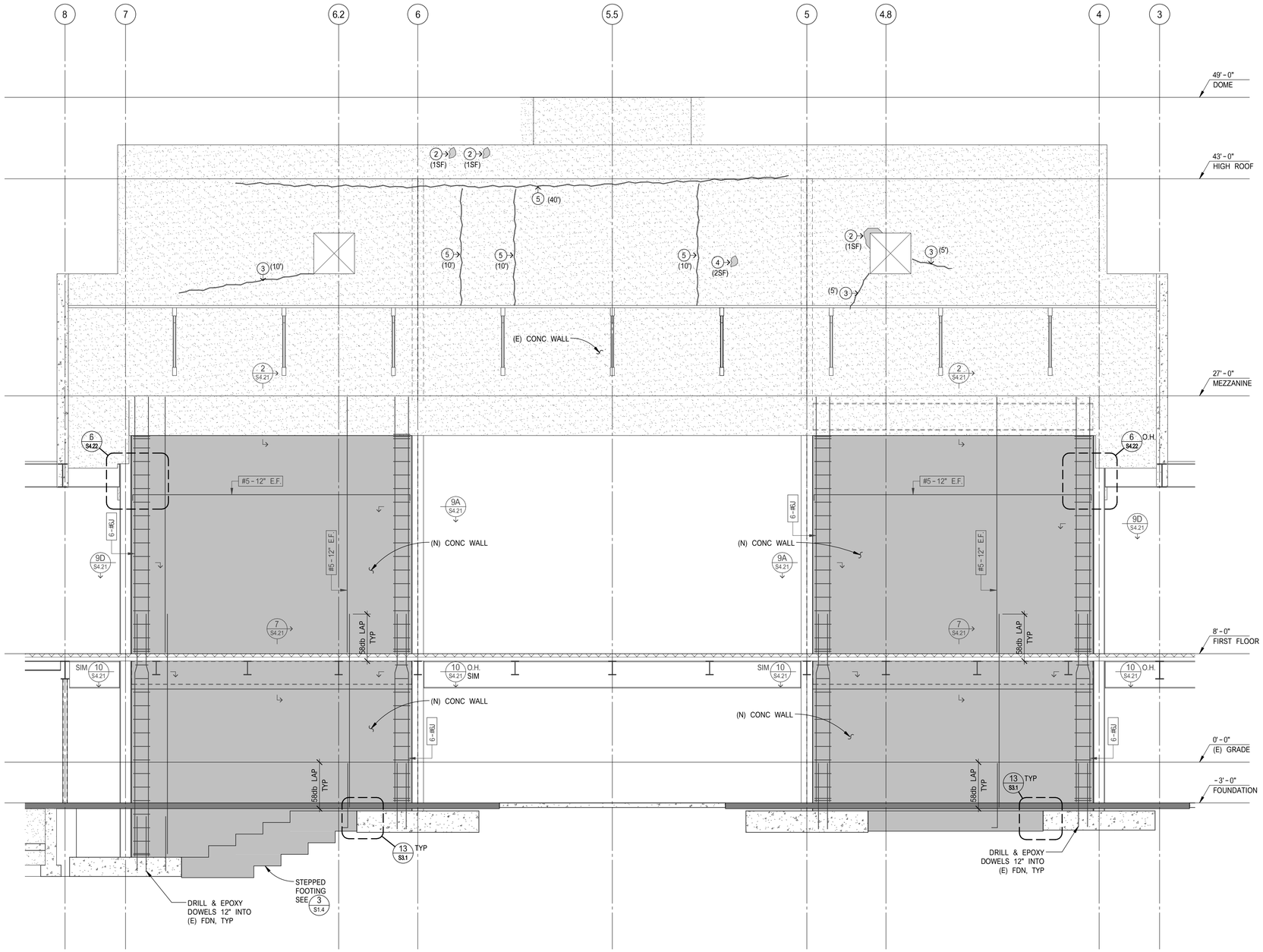

1 WALL ELEVATION AT GRID LINE D

Scale: 1/4" = 1'-0"

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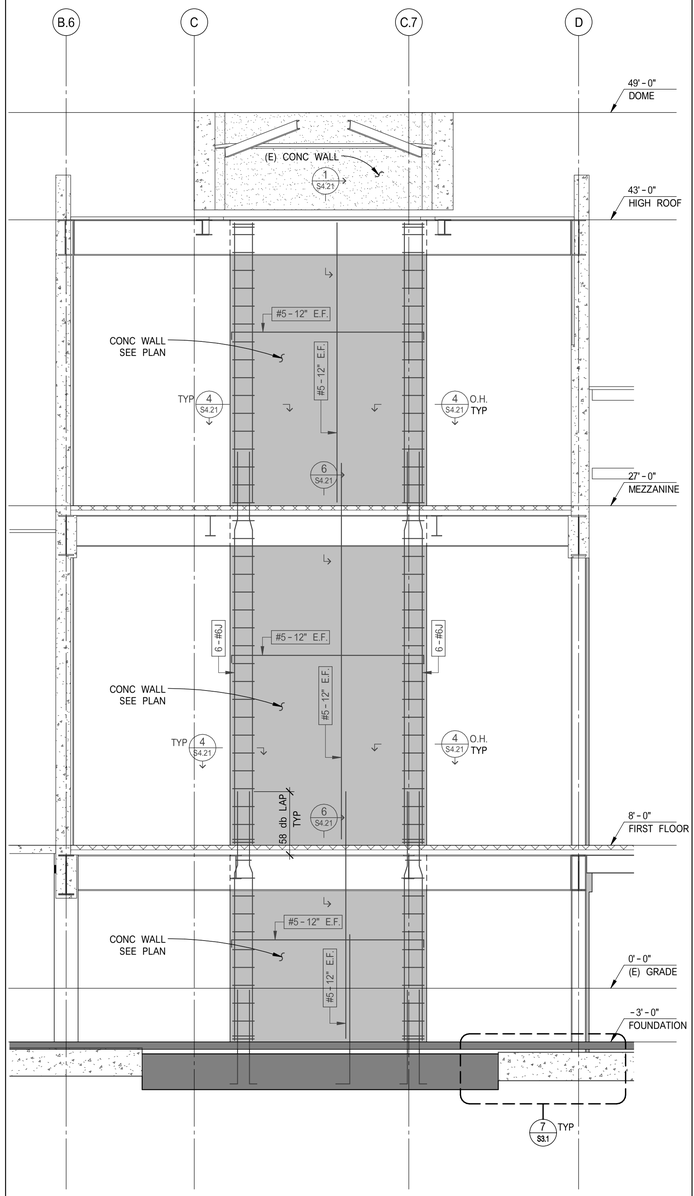
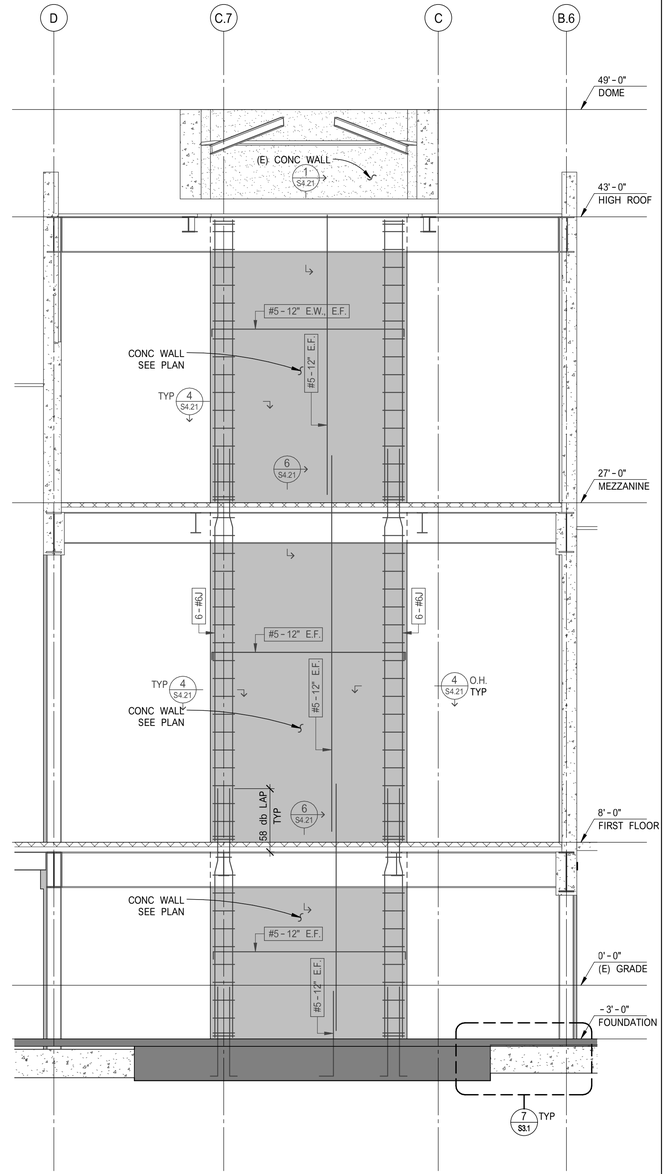


1 WALL ELEVATION AT GRID LINE 5
Scale: 1/4" = 1'-0"



2 WALL ELEVATION AT GRID LINE 6
Scale: 1/4" = 1'-0"

NOTES:

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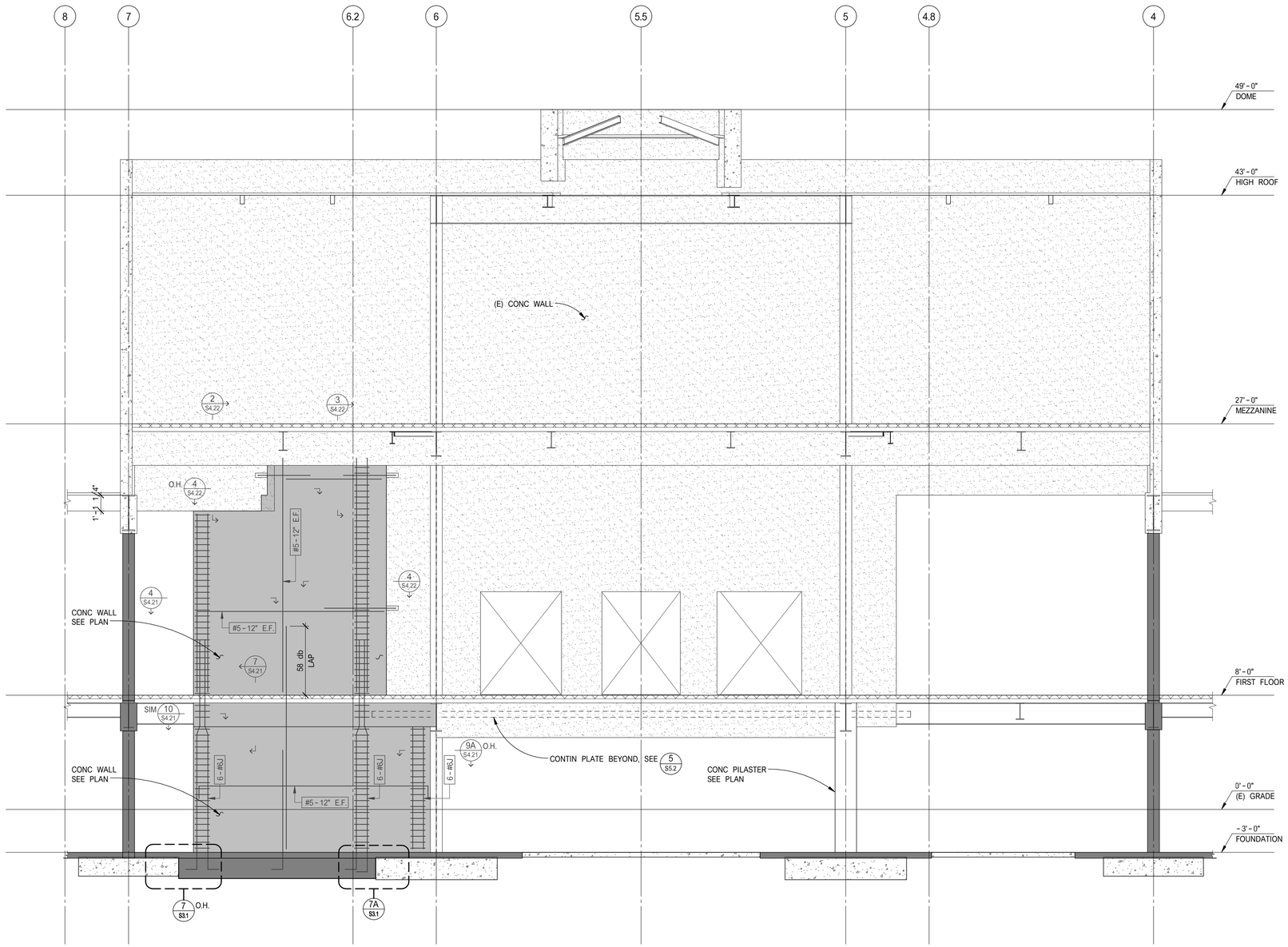

1 WALL ELEVATION AT GRID LINE B.6
Scale: 1/4" = 1'-0"

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BLAKE W. DILSWORTH
No. 3929
STRUCTURAL
STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

Sheet Title
INTERIOR BUILDING ELEVATIONS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

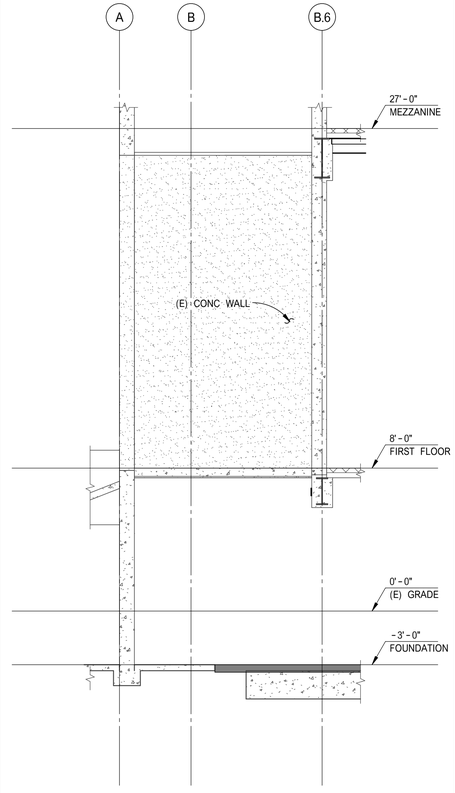
No.	Date	Appr	Revision Notes
1			
2			
3			
4			
5			
6			

Drawn HZ | Reviewed DR
Date NOVEMBER 10, 2016
Scale AS NOTED
Sheet No.
S4.15

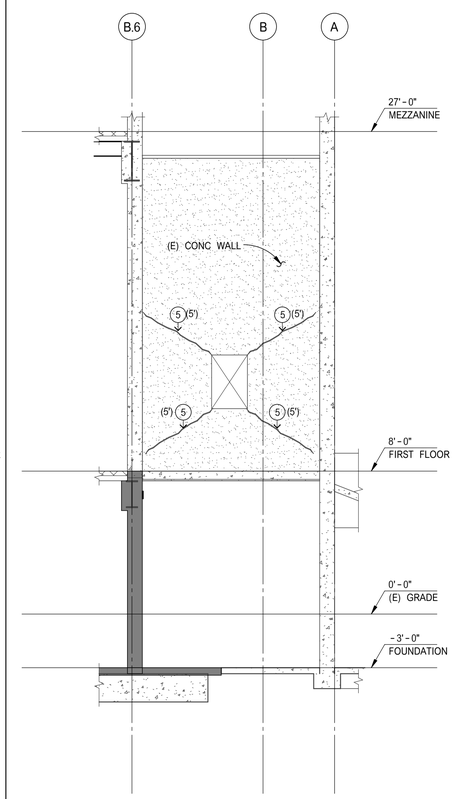
11.10.2016 - PLAN CHECK SET

NOTES:

FOR SHEET NOTES SEE S4.1



1 WALL ELEVATION AT GRID LINE 4.9
Scale: 1/4" = 1'-0"



2 WALL ELEVATION AT GRID LINE 6.1
Scale: 1/4" = 1'-0"

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant
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San Francisco, CA 94105
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Drawn FC | Reviewed DR
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Scale AS NOTED
Sheet No.
S4.16

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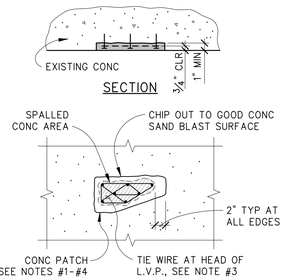


NOTES:

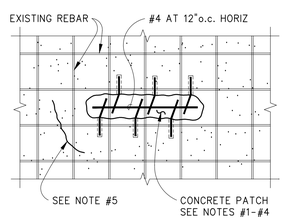
1. REMOVE LOOSENED CONCRETE TO SOUND MATERIAL, THEN SAND BLAST SURFACE.
2. PROVIDE 0.177"ø L.V.P. AT 8"o.c. IN EACH DIRECTION. PINS TO HAVE 1½" MIN EMBEDMENT.
3. PROVIDE #16 ANNEALED TIE WIRE AROUND LOW VELOCITY PINS AS SHOWN.
4. PATCH WITH 'MASTER EMACO S 488CI' BY MASTER BUILDERS 'SIKA MONOTOP 615' BY SIKA CORP OR APPROVED EQUAL PEPARE SURFACE AND INSTALL PER MFG RECOMMENDATIONS.

REPAIR OF DAMAGED CONCRETE AT SURFACE OF WALL

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — 1 / S4.20

NOTES:

1. REMOVE LOOSENED CONCRETE TO CLEAN SOUND MATERIAL.
2. WIRE BRUSH AND/OR SAND BLAST REBAR. IF CORROSION IS PRESENT, AND CROSS-SECTIONAL AREA OF REBAR IS REDUCED, NOTIFY ENGINEER.
3. IF NO REBAR IS PRESENT OR IS REDUCED IN CROSS SECTION BY CORROSION, PROVIDE #4 DOWELS EPOXIED INTO 6" DEEP HOLES PLACED AT 12"o.c., DRILL AT A SLIGHT ANGLE, USE OFFSET BARS AS REQUIRED.
4. FILL WITH 'MASTERFLOW 928' GROUT BY MASTER BUILDERS OR APPROVED EQUAL. PREPARE SURFACE AND INSTALL PER MFG. RECOMMENDATIONS.
5. FOR SURFACE CRACKS THAT RUN THROUGH CONCRETE SECTION WITH NO SPALLING PRESENT, PROVIDE EPOXY INJECTION.

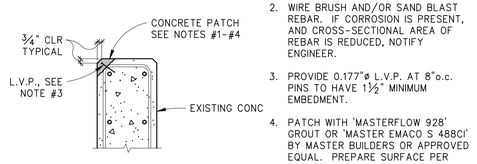


REPAIR OF DAMAGED CONCRETE THROUGH WALL

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — 2 / S4.20

NOTES:

1. REMOVE LOOSENED CONCRETE TO CLEAN SOUND MATERIAL.
2. WIRE BRUSH AND/OR SAND BLAST REBAR. IF CORROSION IS PRESENT, AND CROSS-SECTIONAL AREA OF REBAR IS REDUCED, NOTIFY ENGINEER.
3. PROVIDE 0.177"ø L.V.P. AT 8"o.c. PINS TO HAVE 1½" MINIMUM EMBEDMENT.
4. PATCH WITH 'MASTERFLOW 928' GROUT OR 'MASTER EMACO S 488CI' BY MASTER BUILDERS OR APPROVED EQUAL. PREPARE SURFACE PER MFG RECOMMENDATIONS.



REPAIR OF DAMAGED CONCRETE AT SILL OR HEAD

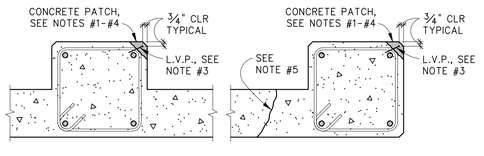
DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — 3 / S4.20

MARK	DESCRIPTION	REPAIR DETAIL	REMARKS
1	Spalled concrete	1/S4.20	
2	Spalled concrete with exposed and rusted rebar	2,3 & 4/S4.20	
3	Cracked concrete with crack width less than 1/32"	-	Apply Crack sealant
4	Cracked concrete at risk of spalling	2,3 & 4/S4.20	
5	Cracked concrete with crack greater than 1/32"	-	Provide epoxy injection
6	Rebar visible and rusting at surface	2/S4.20	

REPAIR SCHEDULE — SCALE: NONE — KPFF K0000 — 4 / S4.20

NOTES:

1. REMOVE LOOSENED CONCRETE TO CLEAN SOUND MATERIAL.
2. WIRE BRUSH AND/OR SAND BLAST REBAR. IF CORROSION IS PRESENT, AND CROSS-SECTIONAL AREA OF REBAR IS REDUCED, NOTIFY ENGINEER.
3. PROVIDE 0.177"ø L.V.P. AT 8"o.c. PINS TO HAVE 1½" MINIMUM EMBEDMENT.
4. PATCH WITH 'MASTERFLOW 928' OR 'MASTER EMACO S 488CI' BY MASTER BUILDERS OR APPROVED EQUAL. PREPARE SURFACE PER MFG RECOMMENDATIONS.
5. FOR SURFACE CRACKS THAT RUN THROUGH CONCRETE SECTION WITH NO SPALLING PRESENT, PROVIDE EPOXY INJECTION.



REPAIR OF DAMAGED CONCRETE AT COLUMNS

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — 5 / S4.20

Design Firm
COUNTY OF HUMBOLDT
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San Francisco, CA 94105
415.989.1004 I kpff.com
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REGISTERED PROFESSIONAL ENGINEER — BLAKE W. DILSWORTH — No. 3929 — STRUCTURAL — STATE OF CALIFORNIA

10 NOV 2016
DATE SIGNED

Sheet Title: CONCRETE REPAIR DETAILS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes
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Drawn: FC | Reviewed: DR
Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S4.20

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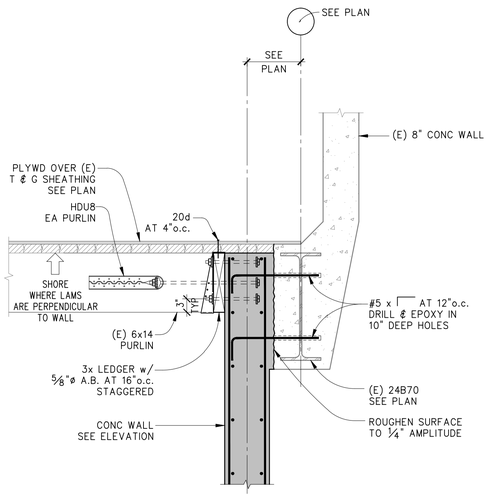
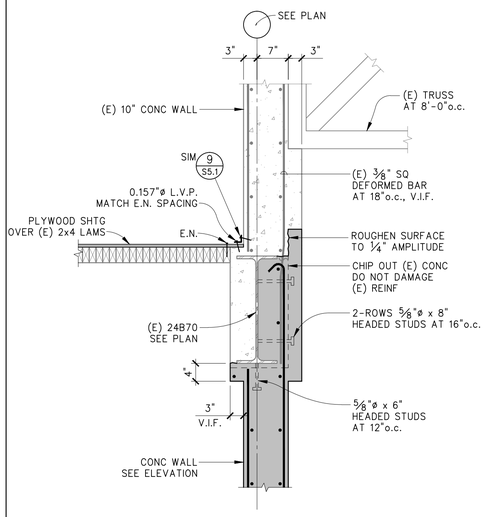
11.10.2016 - PLAN CHECK SET



DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 1 | S4.21



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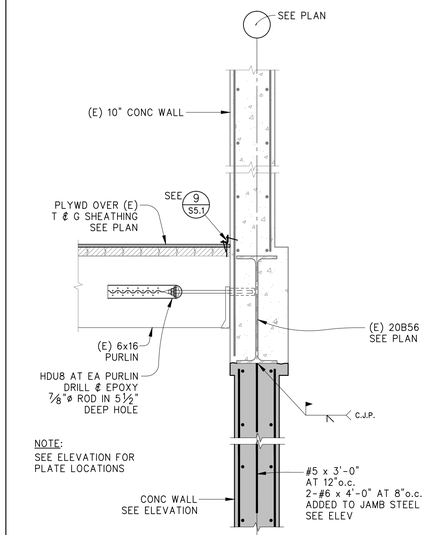
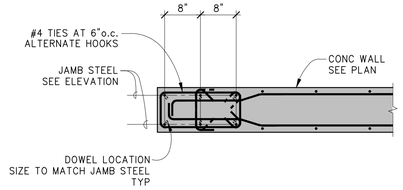


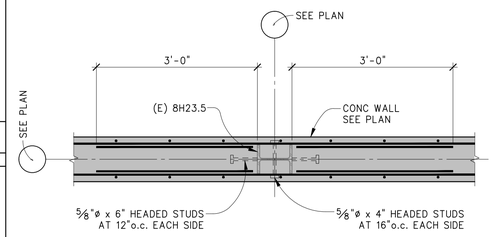
DETAIL

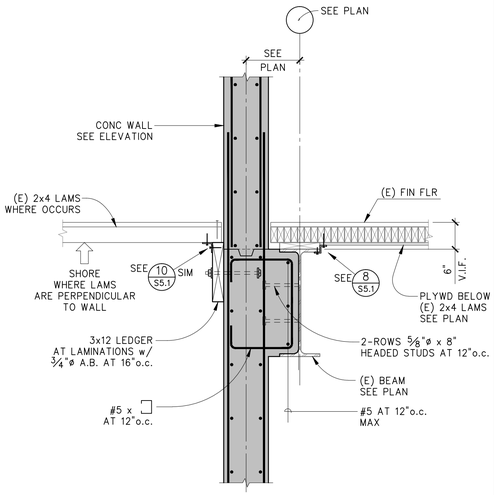
SCALE: 3/4" = 1'-0" | KPFF K0000 | 3 | S4.21



PLAN DETAIL

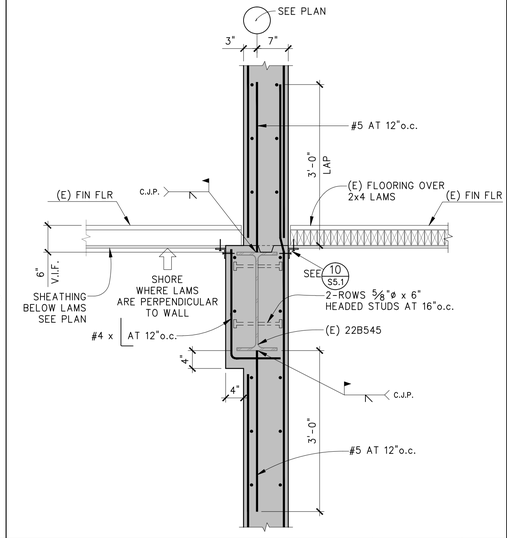
SCALE: 3/4" = 1'-0" | KPFF K0000 | 4 | S4.21





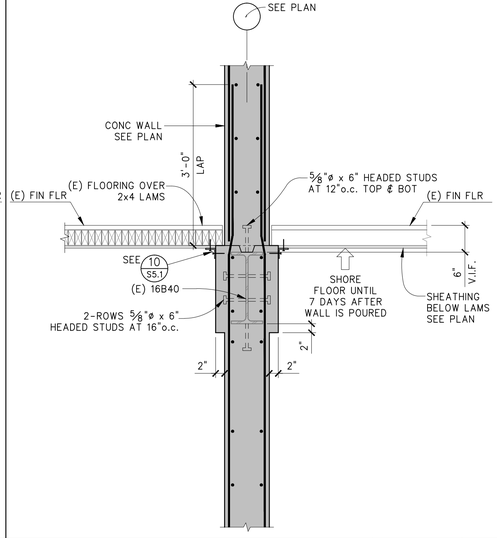
DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 6 | S4.21



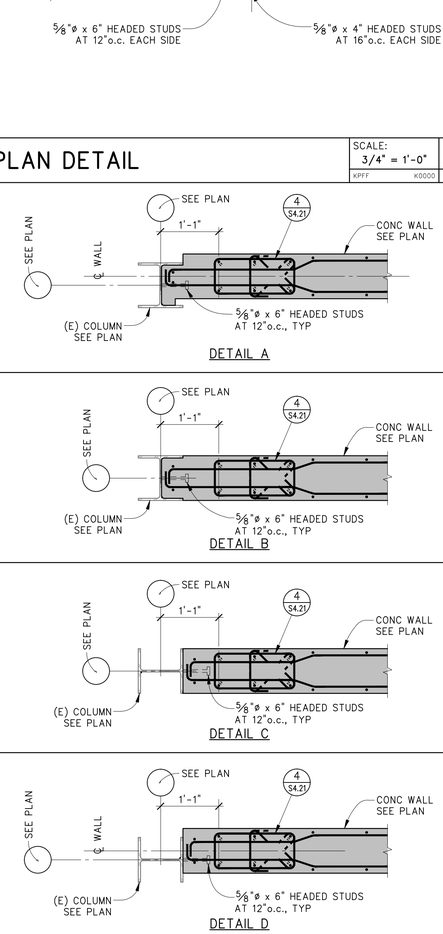
DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 7 | S4.21



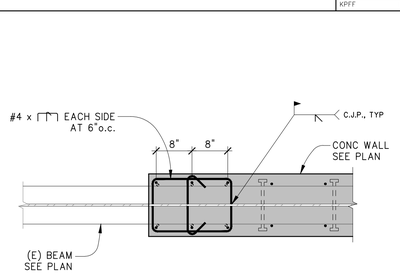
DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 8 | S4.21



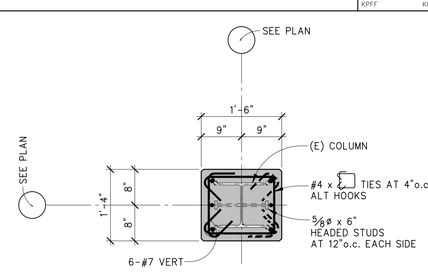
PLAN DETAILS

SCALE: 3/4" = 1'-0" | KPFF K0000 | 9 | S4.21



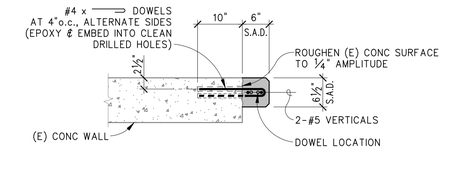
PLAN DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 10 | S4.21



PLAN DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 11 | S4.21



PLAN DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | 12 | S4.21

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

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REGISTERED PROFESSIONAL ENGINEER
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No. 3929
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STATE OF CALIFORNIA

10 NOV 2016
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SHEAR □ ALL DETAILS

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

210502

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Drawn: FC | Reviewed: DR
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Sheet No.: S4□21

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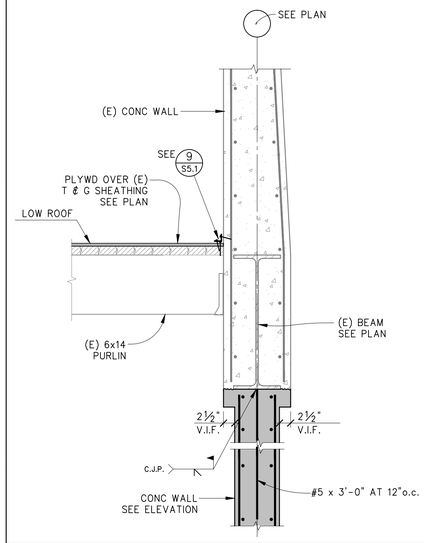

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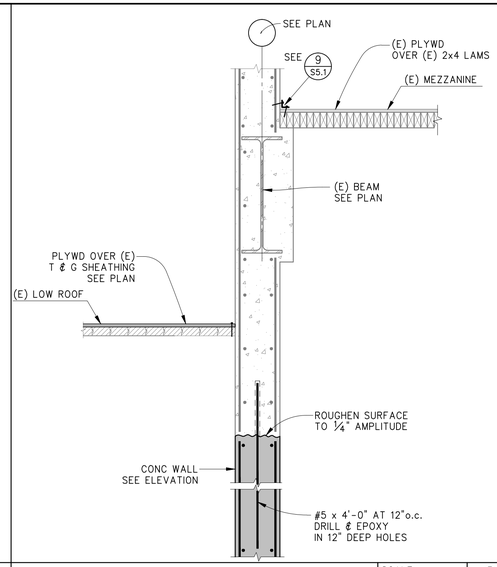

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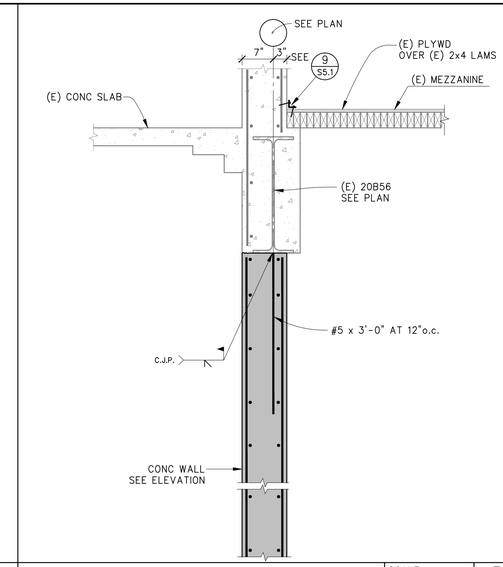

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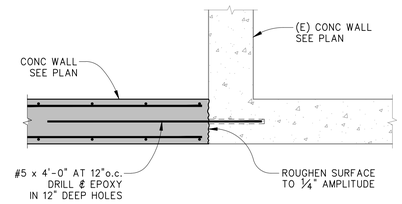

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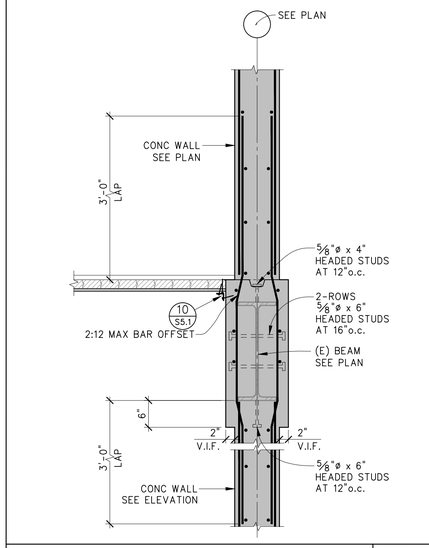

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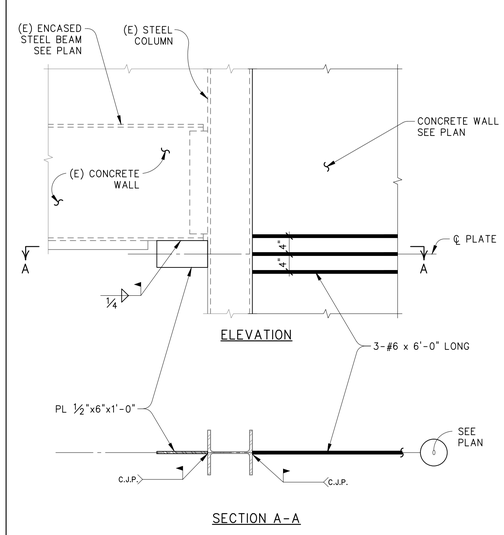
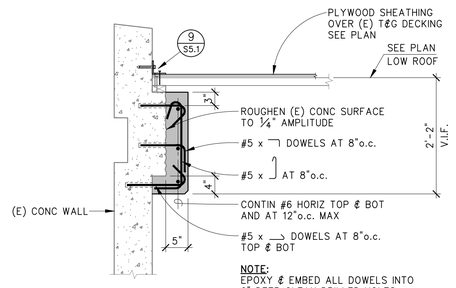
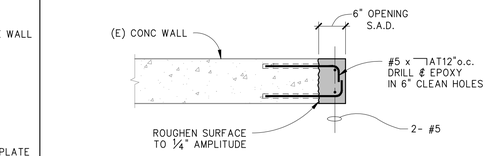


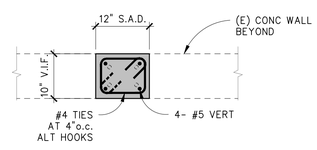
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 6 S4.22



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 9 S4.22



DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 7 S4.22



DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 8 S4.22

COUNTY OF HUMBOLDT IN THE REDWOODS

Design Firm

COUNTY OF HUMBOLDT
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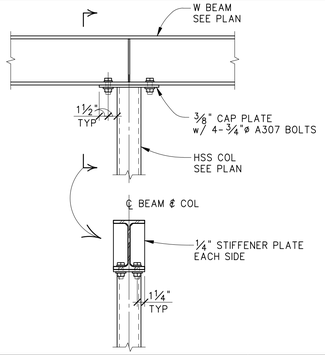
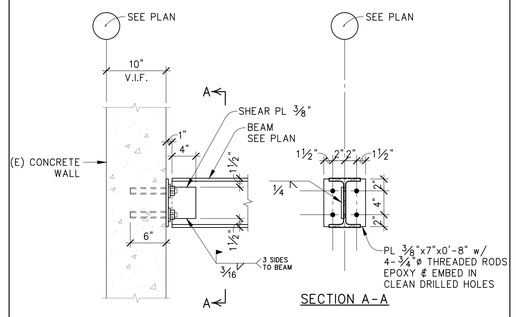
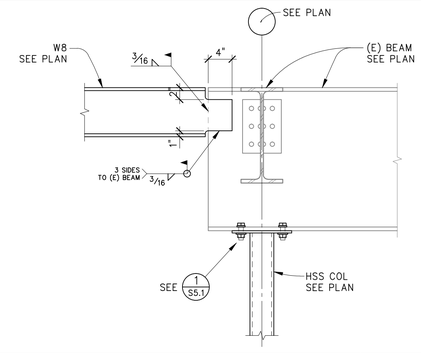


DETAIL — SCALE: 1" = 1'-0" — 1 — KPFF K0000 — S5.1



DETAIL — SCALE: 1" = 1'-0" — 2 — KPFF K0000 — S5.1



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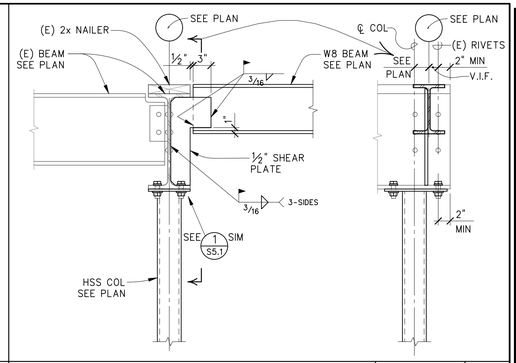
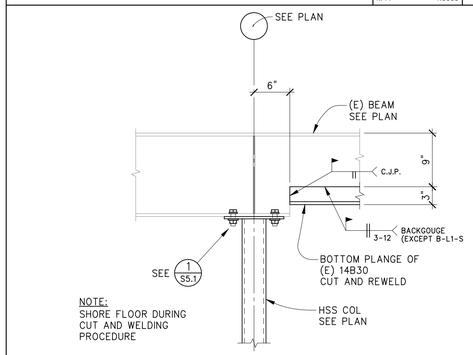
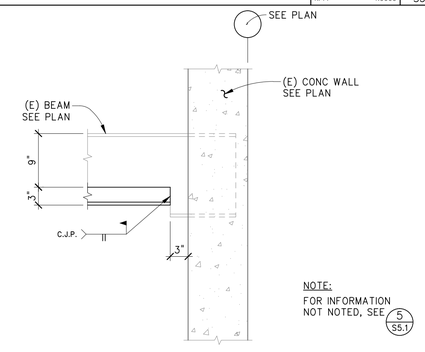


DETAIL — SCALE: 1" = 1'-0" — 4 — KPFF K0000 — S5.1



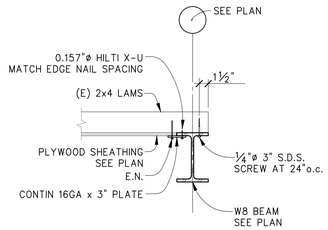
NOTE:
SHORE FLOOR DURING
CUT AND WELDING
PROCEDURE

DETAIL — SCALE: 1" = 1'-0" — 5 — KPFF K0000 — S5.1



NOTE:
FOR INFORMATION
NOT NOTED, SEE 5 S5.1

DETAIL — SCALE: 1" = 1'-0" — 6 — KPFF K0000 — S5.1



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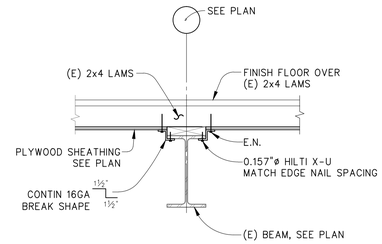
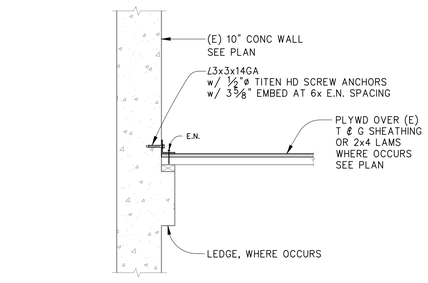
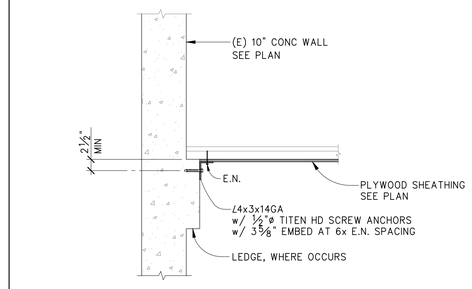


DETAIL — SCALE: 1" = 1'-0" — 8 — KPFF K0000 — S5.1



DIAPHRAGM CONN TO CONCRETE WALLS

DETAIL — SCALE: 3/4" = 1'-0" — 9 — KPFF K0000 — S5.1



DIAPHRAGM CONN TO CONCRETE WALLS
PLYWOOD BELOW FLOORS

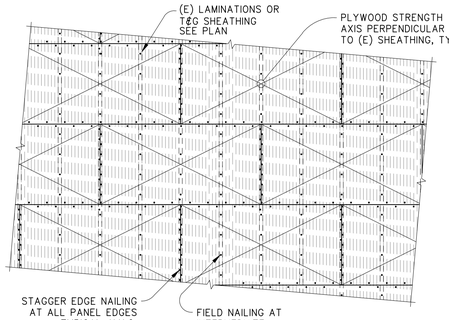
DETAIL — SCALE: 3/4" = 1'-0" — 10 — KPFF K0000 — S5.1

WOOD STRUCTURAL PANEL DIAPHRAGM SCHEDULE				
LOCATION	FLOOR AND ROOF NAILING REQUIREMENTS			
	WOOD STRUCTURAL PANEL	EDGE NAILING (E.N.)	FIELD NAILING (F.N.)	NOTE
FIRST FLOOR	½" (15/32"), AC-EXT APA SPAN RATED 32/16	10d AT 4"o.c.	10d AT 12"o.c.	#1, #3, #4
LOW ROOF	¾" (23/32"), CD-EXT APA SPAN RATED 48/24	10d AT 4"o.c.	10d AT 12"o.c.	#2
MEZZANINE	½" (15/32"), CD-EXT APA SPAN RATED 32/16	10d AT 2"o.c.	10d AT 12"o.c.	#1
TRUSS ROOF	¾" (23/32"), CD-EXT APA SPAN RATED 48/24	10d AT 4"o.c. 2-ROWS	10d AT 12"o.c.	#2
MEZZANINE ROOF	¾" (23/32"), CD-EXT APA SPAN RATED 48/24	10d AT 2½"o.c.	10d AT 12"o.c.	#2
DOME	½" (15/32"), CD-EXT APA SPAN RATED 32/16	10d AT 4"o.c.	10d AT 12"o.c.	#2

NOTE:

1. WSNTL WOOD SCREWS (ICC-ES ESR-1472) MAY BE SUBSTITUTED FOR 10d NAILS.
2. USE ZINC COVERED GUN NAILS AT ROOFS AND EXTERIOR DECKS.
3. SHEATHING INSTALLED ON UNDERSIDE OF FLOOR. AT ALL EXISTING BEAMS, SEE 8/S5.1
3. CDX PLYWOOD MAY BE USED WHERE FULLY COVERED BY SOFFITS, S.A.D. FOR LOCATIONS.

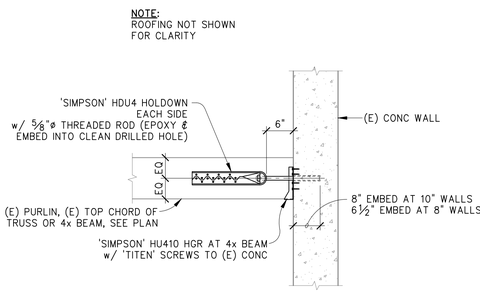
SCHEDULE — SCALE: NONE — 11 — KPFF K7000 — S5.1



NOTES:

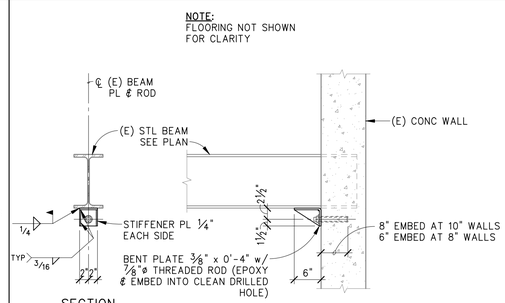
1. FOR WOOD STRUCTURAL PANEL DIAPHRAGM SCHEDULE, SEE 11 S5.1
2. GLUE PLY TO FLOOR FRAMING MEMBERS PRIOR TO NAILING.
3. MINIMUM PLYWOOD WIDTH IS 24".
4. NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND IN NO CASE SHALL NAILS PENETRATE THE TOP PLY MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS. NAILS OVERDRIVEN ARE SUBJECT FOR REJECTION AND MAY RESULT IN REMOVAL OF THE PLYWOOD AND LUMBER FRAMING TO WHICH IT IS FASTENED. ACCEPTANCE IS AT THE DISCRETION OF THE PROJECT ENGINEER AND SPECIAL INSPECTOR.
5. ALL SHINERS SHALL BE REMOVED AND RE-DRIVEN.
6. PANEL EDGES PARALLEL TO EXISTING LAMINATIONS OR SHEATHING SHALL BE CENTERED ON THE EXISTING MEMBER.

PLYWOOD SHEATHING NAILING — SCALE: NONE — 12 — KPFF K7001 — S5.1



WALL ANCHOR AT WOOD MEMBERS

DETAIL — SCALE: 3/4" = 1'-0" — 13 — KPFF K0000 — S5.1



SECTION

WALL ANCHOR AT (E) STEEL MEMBERS

DETAIL — SCALE: 3/4" = 1'-0" — 14 — KPFF K0000 — S5.1

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REGISTERED PROFESSIONAL ENGINEER
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No. 3929
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10 NOV 2016
DATE SIGNED

No.	Date	Appr	Revision Notes
1			
2			
3			
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Drawn: FC | Reviewed: DR
Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S5.1

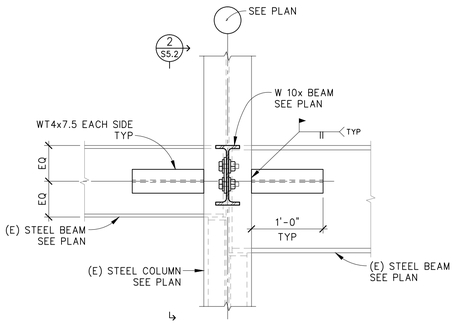
Sheet Title: FLOOR FRAMING DETAILS

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT - 1018 H ST. | EUREKA, CA | 95501 APN: 005-023-002

Project ID: 210502

File: L:\12251-001\12251-0050-1.dwg on 11/14/2016 11:44:42 AM by fcecilio

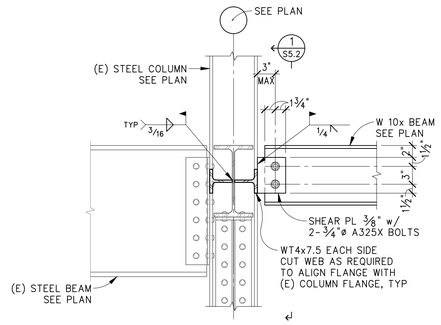
11/10/2016 - PLAN CHECK SET



BEAM CONN

DETAIL

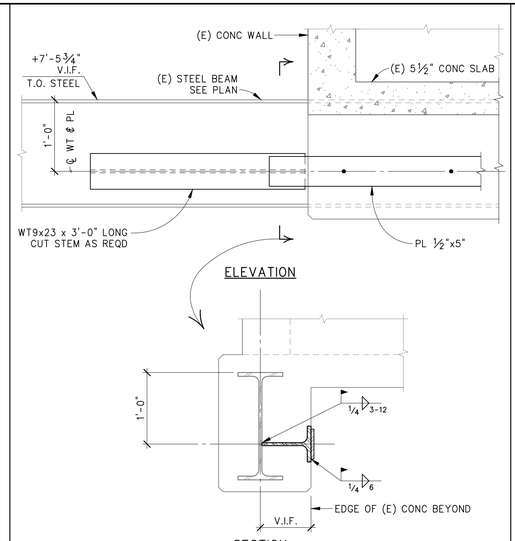
SCALE:		
1" = 1'-0"		1
KPFF	K0000	S5.2



BEAM CONN

DETAIL

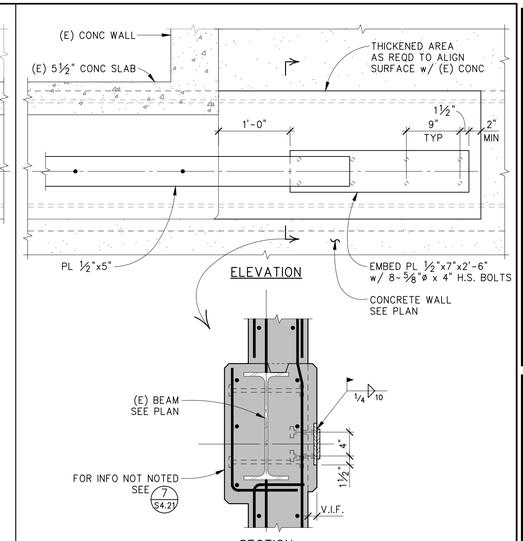
SCALE:		
1" = 1'-0"		2
KPFF	K0000	S5.2



SECTION

DETAIL

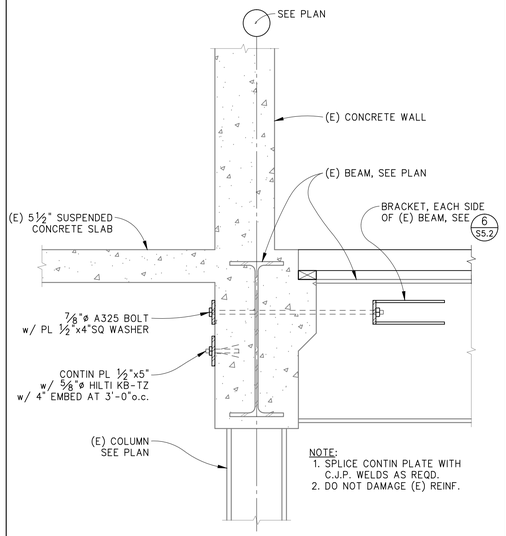
SCALE:		
1" = 1'-0"		3
KPFF	K0000	S5.2



SECTION

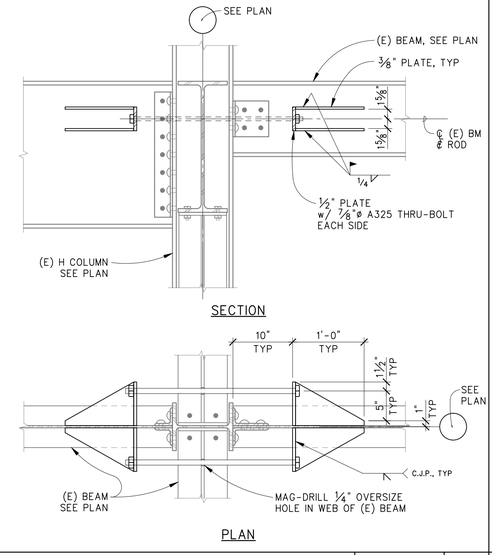
DETAIL

SCALE:		
1" = 1'-0"		4
KPFF	K0000	S5.2



DETAIL

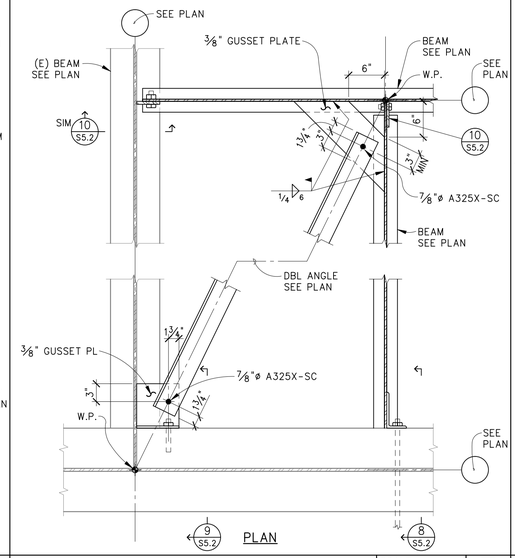
SCALE:		
1" = 1'-0"		5
KPFF	K0000	S5.2



PLAN

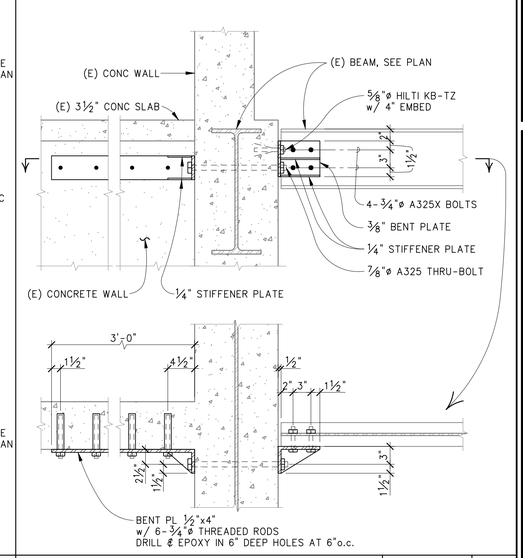
DETAIL

SCALE:		
1" = 1'-0"		6
KPFF	K0000	S5.2



DETAIL

SCALE:		
1" = 1'-0"		7
KPFF	K0000	S5.2



DETAIL

SCALE:		
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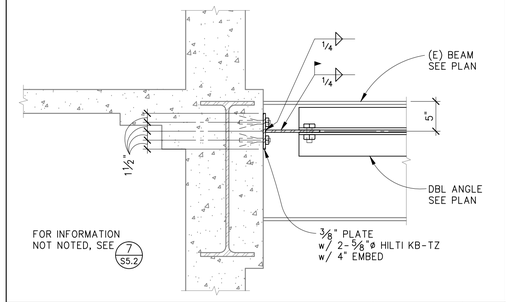
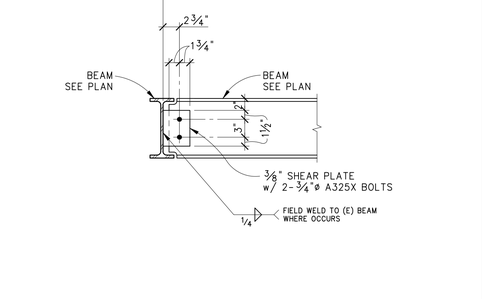
KPFF	K0000	S5.2



DETAIL

SCALE:		
1" = 1'-0"		9
KPFF	K0000	S5.2



DETAIL

SCALE:		
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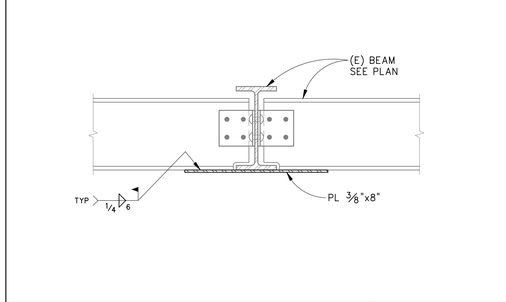
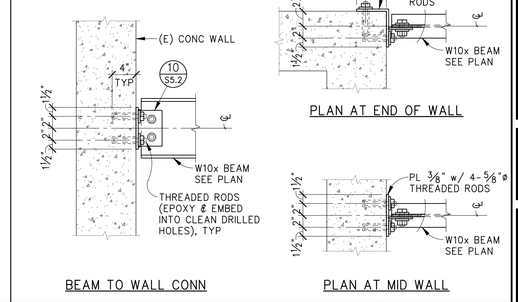


DETAIL

SCALE:		
1" = 1'-0"		11
KPFF	K0000	S5.2



DETAIL

SCALE:		
1" = 1'-0"		12
KPFF	K0000	S5.2

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APN: 005-023-002

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Drawn	Reviewed
MU	DR

Date: NOVEMBER 10, 2016
Scale: AS NOTED
Sheet No.: S5.2

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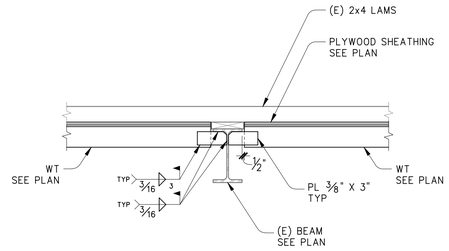
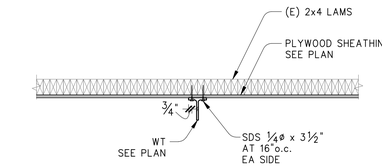
11.10.2016 - PLAN CHECK SET



DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 1 S5.3



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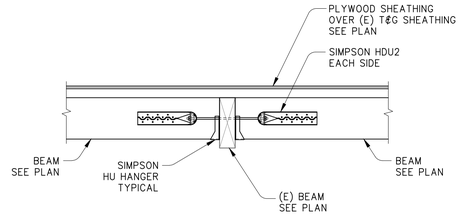

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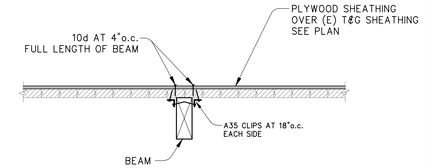
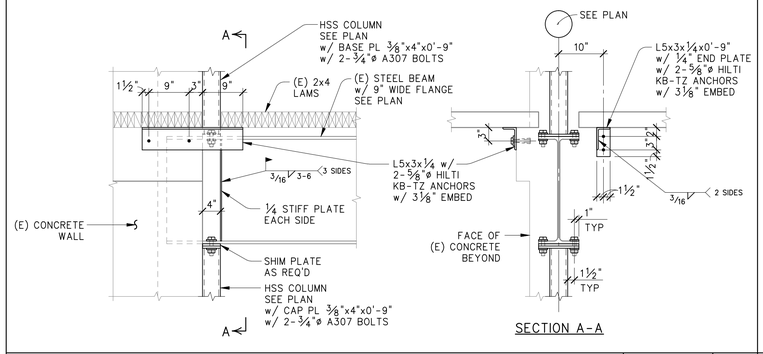
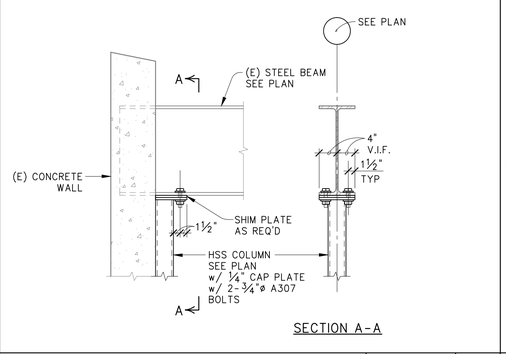


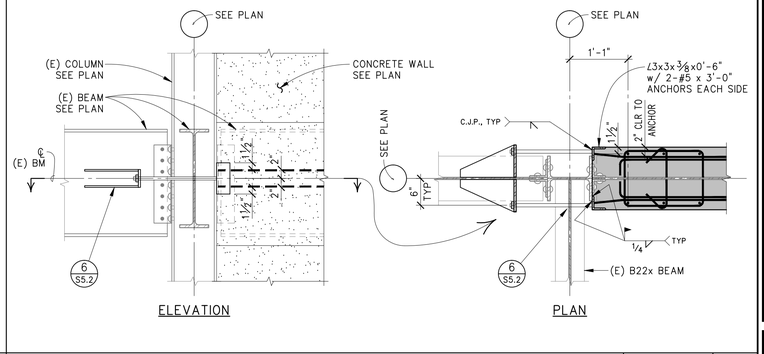
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 4 S5.3



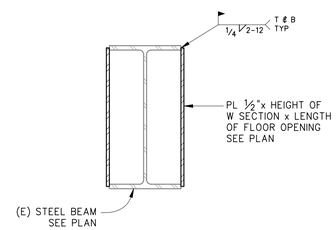
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 5 S5.3



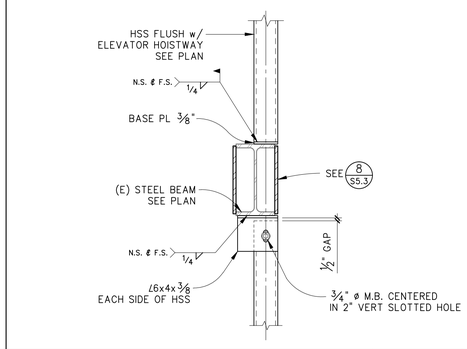
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 6 S5.3



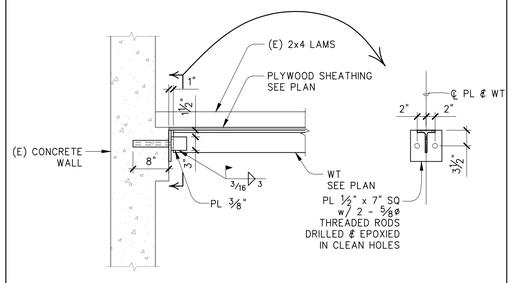
DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 7 S5.3



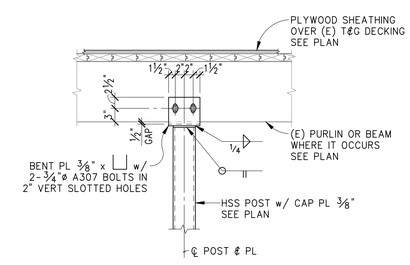
SIDE PLATE DETAIL — SCALE: NONE — KPFF K5013 — 8 S5.3



DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — 9 S5.3

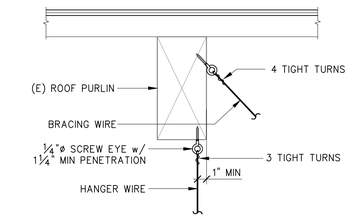


DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 10 S5.3



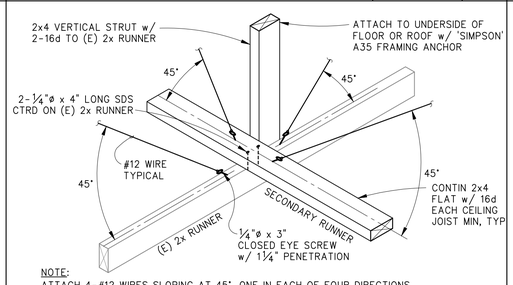
POST TO BEAM CONN

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 11 S5.3



WIRE ATTACHMENT TO (E) PURLIN

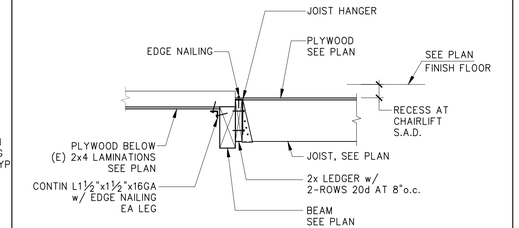
SUSPENDED CEILING — SCALE: NONE — KPFF K0038 — 12 S5.3



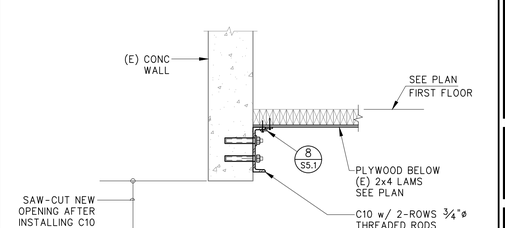
NOTE:
ATTACH 4-#12 WIRES SLOPING AT 45°, ONE IN EACH OF FOUR DIRECTIONS, AND ONE VERTICAL STRUT, TO THE UNDERSIDE OF THE FLOOR OR ROOF ABOVE. THE WIRES AND STRUTS SHALL BE SPACED A MAXIMUM OF 6'-0"o.c. IN EACH DIRECTION AND A MAXIMUM OF 3'-0" FROM ANY WALL.

SEISMIC BRACING MECHANISM

SUSPENDED CEILING — SCALE: NONE — KPFF K0000 — 13 S5.3



SECTION — SCALE: 3/4" = 1'-0" — KPFF K0000 — 14 S5.3



DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — 15 S5.3

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Sheet No.: S5.3

11.10.2016 - PLAN CHECK SET

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SCOPE OF WORK

A. INTENT:

IT IS THE INTENT OF THE PROJECT TO REMOVE AND REPLACE ALL PLUMBING FIXTURES EXCEPT THOSE IN MENS RESTROOM 105. THESE FIXTURES ARE TO BE REMOVED AND RE-INSTALLED.

IT IS THE INTENT OF THE PROJECT TO REMOVE ALL EXPOSED HYDRONIC SPACE HEATING PIPING, COLD AND HOT WATER PIPING AND, WASTE AND VENT PIPING.

IT IS THE INTENT OF THE PROJECT TO REMOVE ALL EXPOSED PIPING AND ALL PIPING WITHIN WALLS WHICH IS TO BE REMOVED AS PART OF THE CONSTRUCTION, INCLUDING HYDRONIC SPACE HEATING PIPES, COLD AND HOT WATER PIPING, WASTE AND VENT PIPING, AND NATURAL GAS PIPING.

IT IS THE INTENT OF THE PROJECT TO ABANDON IN PLACE ALL CONCEALED PIPING BELOW THE BASEMENT FLOOR, WITHIN CONCEALED CEILING SPACES, AND WITHIN WALLS WHICH ARE NOT SUBJECT TO CONSTRUCTION.

B. GENERAL DEMOLITION NOTES:

1. REMOVE ALL WASTE AND VENT PIPING, EXPOSED OR EXPOSED DURING CONSTRUCTION.
   a. CUT WASTE PIPING FLUSH WITH THE LOWEST FLOOR. INSERT BALLOON PLUG. FILL WITH CONCRETE FLUSH WITH FLOOR. SMOOTH TROWEL FINISH. CONCRETE PLACEMENT AND FINISH WORK TO BE DONE BY THE GENERAL CONTRACTOR.
   b. REMOVE VENT PIPING THROUGH THE ROOF. PATCH IN PENETRATIONS AND SEAL IN WEATHER TIGHT. PATCHING AND SEALING TO BE DONE BY THE GENERAL CONTRACTOR.
2. REMOVE ALL HYDRONIC SPACE HEATING PIPING, EXPOSED OR EXPOSED DURING CONSTRUCTION.
   a. REMOVE PIPING TO POINT WITHIN THE WALL OR ABOVE THE CEILING.
   b. PATCH IN WALL OR CEILING PENETRATION, PAINT PATCH TO MATCH WALL OR CEILING COLOR. PATCHING AND PAINTING TO BE DONE BY THE GENERAL CONTRACTOR.
3. REMOVE DOMESTIC COLD AND HOT WATER PIPING EXPOSED OR EXPOSED DURING CONSTRUCTION.
   a. CUT PIPING FLUSH WITH THE WALL. WIRE BRUSH PIPE TO BARE METAL. INSERT FINE MESH SCREEN AND FILL WITH PLASTER, FLUSH WITH THE FACE OF WALL. PAINT TO MATCH WALL COLOR. PLASTER, FINISH AND PAINTING TO BE DONE BY THE GENERAL CONTRACTOR.
   b. CUT PIPING FLUSH WITH THE FLOOR. WIRE BRUSH PIPE TO BARE METAL. INSERT FINE MESH SCREEN AND FILL WITH CONCRETE, FLUSH WITH THE FLOOR. SMOOTH TROWEL FINISH. CONCRETE PLACEMENT AND FINISH TO BE DONE BY THE GENERAL CONTRACTOR.
4. REMOVE NATURAL GAS PIPING, EXPOSED OR EXPOSED DURING CONSTRUCTION.
   a. CUT PIPING FLUSH WITH THE WALL. WIRE BRUSH PIPE TO BARE METAL. INSERT FINE MESH SCREEN AND FILL WITH PLASTER, FLUSH WITH THE FACE OF WALL. PAINT TO MATCH WALL COLOR. PLASTER, FINISH AND PAINTING TO BE DONE BY THE GENERAL CONTRACTOR.

C. DEMOLITION REQUIRED FOR CONSTRUCTION OF SHEAR PANELS:

1. REMOVE TOILET AND LAVATORY FROM BASEMENT ROOM 018.
2. REMOVE DRINKING FOUNTAIN FROM CORRIDOR 102 AND CORRIDOR 125.
3. REMOVE THREE TOILETS AND FOUR URINALS FROM MENS RESTROOM 105.
   a. REMOVE WASTE PIPING DOWN THROUGH FIRST FLOOR. REMOVE THE HORIZONTAL MAIN WASTE PIPE TO THE CONNECTION WITH THE MAIN WASTE PIPE EXITING THE BUILDING. MAINTAIN THE EXITING PIPE FOR CONNECTION TO RE-LOCATED FIXTURES.

D.. BASEMENT DEMOLITION OTHER THAN THAT REQUIRED FOR SHEAR PANEL CONSTRUCTION:

1. REMOVE EXISTING HYDRONIC WATER PIPING AND COLD WATER SUPPLY PIPING FROM MECHANICAL ROOM 004. REMOVE EXISTING NATURAL GAS PIPING BACK TO FIRST FITTING INSIDE OF MECHANICAL ROOM 004.
2. REMOVE EXISTING WATER HEATER FROM KITCHEN 005.
   a. REMOVE VENT CONNECTOR.
3. REMOVE ALL EXPOSED PIPING FROM KITCHEN 005.
4. REMOVE ALL EXPOSED PIPING FROM CARD ROOM 008 AND BILLIARDS ROOM 009.
5. REMOVE 2 THREE COMPARTMENT SINKS FROM BAR ROOM 012.
6. REMOVE PRE-RINSE STATION FROM KITCHEN 005.
7. REMOVE DISHWASHER FROM KITCHEN 005.

D. BASEMENT DEMOLITION OTHER THAN THAT REQUIRED FOR SHEAR PANEL CONSTRUCTION (CONT).

8. REMOVE GREASE INTERCEPTOR.
9. REMOVE LIFT STATION.
10. REMOVE WASTE PIPING FROM BILLIARDS ROOM 009 AND CARD ROOM 008.
11. REMOVE THREE COMPARTMENT SINKS FROM BAR 012.
12. REMOVE EXPOSED PIPING FROM BAR 012.
13. REMOVE WASTE PIPING DOWN FROM MENS RESTROOM 105.
14. REMOVE THE WATER HEATER FROM STORAGE 013.
15. REMOVE EXPOSED PIPING FROM STORAGE 013.
16. REMOVE SUMP PUMPS AND RELATED PIPING FROM STORAGE 013.
17. REMOVE SUMP PUMP AND RELATED PIPING FROM STORAGE 019.
18. REMOVE FIXTURES FROM MENS RESTROOM 017.

E. FIRST FLOOR DEMOLITON OTHER THAN THAT REQUIRED FOR SHEAR PANEL CONSTRUCTION.

1. REMOVE SINK FROM BAR 108.
2. REMOVE FIXTURES FROM WOMEN'S RESTROOM 113.
3. REMOVE SERVICE SINK FROM UTILITY ROOM 114.
4. REMOVE SINK FROM KITCHEN 115.

F. SITE PIPING GENERAL NOTES:

1. SAW CUT TRENCH WAYS THROUGH CONCRETE AND AC PAVING, TO BE DONE BY THE GENERAL CONTRACTOR.
2. ALL TRENCH WAYS SHALL BE SHORED IN CONFORMANCE WITH CCR TITLE 8, GENERAL CONSTRUCTION SAFETY ORDERS.
3 BACKHOE/DITCH WITCH/HAND EXCAVATE. REMOVE ALL DEMOLISHED CONCRETE, AC PAVING AND EXCAVATED SOIL FROM THE SITE.
4. REPLACE CONCRETE AND AC PAVING IN KIND. REPLACE LANDSCAPING IN KIND. WORK TO BE DONE BY THE GENERAL CONTRACTOR.
5. INSTALL NEW PIPE.
   a. ALL COLD WATER PIPE FROM THE METER TO THE BUILDING TO BE SCHEDULE 40 PVC WITH SOLVENT CEMENT FITTINGS. INSTALL WITH MINIUM 12" COVER.

      WATER PIPE WHICH CROSSES WASTE PIPING SHALL BE INSTALLED MINIMUM 12" ABOVE THE WASTE PIPE.
   b. ALL PRESSURE WASTE PIPING TO BE SCHEDULE 80 PVC WITH SOLVENT CEMENT FITTINGS. INSTALL WITH MINIMUM 12" COVER.

      PRESSURE WASTE PIPING WHICH ENTERS A GRAVITY WASTE PIPE SHALL BE CONNECTED WITH A WYE FITTING, INTO THE TOP OF THE WASTE PIPE.
   c. ALL GRAVITY FLOW WASTE PIPING TO BE SDR 35 PVC WITH GASKET JOINTS. SDR 35 PIPE SHALL NOT BE INSTALLED WITHIN 2 FEET OF THE BUILDING PERIMETER. INSTALL WITH MINIUM 12" COVER.
   d. INSTALL A BACKWATER VALVE IN THE EXISTING WASTE PIPE AT THE BUILDING SIDE OF THE PUBLIC SIDEWALK.
   e. BED NEW PIPING WITH 6" SAND ABOVE AND BELOW. WATER CONSOLIDATE.
   f. BACKFILL TRENCH WAYS WITH #2 BASE IN 6" LIFTS, COMPACTED TO 95% OF THE NATIVE SOIL COMPACT-ION.
6. PRESSURE TEST NEW PIPING.
   a. PRESSURE TEST WATER PIPING TO LINE PRESSURE OR 50 PSIG WHICH EVER IS GREATER, FOR A PERIOD OF NOT LESS THAN 15 MINUTES WITH NO DROP IN PRESSURE. REPAIR/REPLACE NON-CONFORMING FITTINGS AND SECTIONS. RE-TEST TO ACCEPTANCE.
   b. PRESSURE TEST PRESSURE WASTE PIPING TO 50 PSIG FOR A PERIOD OF NOT LESS THAN 15 MINUTES WITH NO DROP IN PRESSURE. REPAIR/RE-PLACE NON-CONFORMING FITTINGS AND SECTIONS. RE-TEST TO ACCEPTANCE.
   c. PRESSURE TEST GRAVITY WASTE PIPING AND VENT PIPING TO 10 FEET HEAD OF WATER WITH NO DROP IN LIQUID LEVEL. REPAIR/REPLACE NON-CONFORMING FITTINGS AND SECTIONS AND RETEST TO ACCEPTANCE.

F. SITE PIPING GENERAL NOTES (CONT)

7. DISINFECT COLD WATER PIPING WITH 50 PARTS PER MILLION (PPM) SOLUTION OF CHLORINE FOR A PERIOD OF NOT LESS THAN 24 HOURS, OR 200 PPM SOLUTION OF CHLORINE FOR A PERIOD OF NOT LESS THAN 3 HOURS.

G. SITE PLUMBING.

1. INSTALL 2" COLD WATER SERVICE FROM THE WATER METER TO THE BUILDING.
2. INSTALL GREASE INTERCEPTOR. INSTALL A BACKWATER VALVE AT THE DISCHARGE FROM THE SAMPLING BOX. INSTALL 2" VENT FROM THE GREASE INTERCEPTOR DISCHARGE TO CONNECT WITH 2" VENT INSIDE BUILDING.
3. INSTALL 3" PRESSURE WASTE PIPE FROM THE KITCHEN FLOOR DRAIN AND FLOOR SINK LIFT STATION TO THE GREASE INTERCEPTOR.
4. INSTALL 4" GRAVITY WASTE PIPE FROM THE GREASE INTERCEPTOR TO THE CONNECTION WITH THE EXISTING SITE WASTE PIPE.
5. INSTALL 3" PRESSURE WASTE PIPE FROM THE KITCHEN DISHWASHER, FOOD DISPOSER, RESTROOMS AND UTILITY ROOM LIFT STATION TO CONNECT ON THE DISCHARGE END OF THE GREASE INTERCEPTOR.
6. INSTALL 4" GRAVITY WASTE PIPE FROM NORTH WALL TO CONNECT WITH THE EXISTING SANITARY SEWER SYSTEM.
7. INSTALL GROUND WATER WET WELL WITH PUMPS AND PIPING. INSTALL DISCHARGE PIPING TO 10TH STREET GUTTER.

H. BUILDING PLUMBING GENERAL NOTES:

1. ALL WATER PIPING TO BE TYPE L COPPER WITH 95/5 SOLDER OR MECHANICAL PRESSED FITTINGS. PEX PIPING MAY BE USED IN CONCEALED LOCATIONS. PEX PIPING SHALL BE USED FOR ALL INSTALLATIONS BELOW THE BASEMENT FLOOR.
2. ALL WASTE PIPING BELOW THE BASEMENT FLOOR TO BE PVC DWV WITH SOLVENT CEMENT FITTINGS. ALL WASTE PIPING ABOVE THE BASEMENT FLOOR TO BE STD WT CAST IRON WITH HEAVY DUTY COUPLINGS.
3. ALL VENT PIPING TO BE PVC DWV WITH SOLVENT CEMENT FITTINGS.
4. ALL NATURAL GAS PIPING TO BE SCH 40 BLACE STEEL CONFORMING WITH ASTM A53 OR ASTM A120, WITH THREADED FITTINGS FOR 2" AND SMALLER, AND THREADED OR FLANGED FITTINGS FOR 2 1/2" AND LARGER.
5. PRESSURE TEST ALL NEW WATER PIPING TO LINE PRESSURE OR 50 PSIG, WHICH EVER IS GREATER, FOR A PERIOD OF NOT LESS THAN 15 MINUTES. REPAIR/ REPLACE NON-CONFORMING FITTINGS AND SECTIONS AND RE-TEST TO ACCEPTANCE.
6. DISINFECT COLD WATER PIPING WITH 50 PARTS PER MILLION (PPM) SOLUTION OF CHLORINE FOR A PERIOD OF NOT LESS THAN 24 HOURS, OR 200 PPM SOLUTION OF CHLORINE FOR A PERIOD OF NOT LESS THAN 3 HOURS.
7. PRESSURE TEST ALL NEW WASTE AND VENT PIPING TO 10 FEET HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES WITH NO DROP IN LIQUID LEVEL. REPAIR/ REPLACE NON-CONFORMING FITTINGS AND SECTIONS AND RE-TEST TO ACCEPTANCE.
8. PRESSURE TEST ALL NEW GAS PIPING TO 10 PSIG FOR A PERIOD OF NOT LESS THAN 30 MINUTES WITH NO DROP IN PRESSURE. DISCONNECT GAS METER AND INSTALL A BLIND FLANGE OR CAP BEFORE PRESSURE TESTING. REPAIR/REPLACE NON-CONFORMING FITTINGS AND SECTIONS AND RE-TEST TO ACCEPTANCE.
9. INSTALL CORES THROUGH CONCRETE WALLS AND FLOOR AS NECESSARY.

I. BUILDING PLUMBING.

1. INSTALL PLUMBING FIXTURES
   a. INSTALL KITCHEN FIXTURES. SEE ARCHITECTURAL SHEET A-603.
   b. INSTALL RESTROOM FIXTURES, INCLUDING; TOILETS, LAVATORIES AND FLOOR DRAINS.
   c. INSTALL FLOOR SINKS, INCLUDING; KITCHEN RELATED INDIRECT WASTES AND CONDENSING FURNACE CONDENATE WASTES.
   d. INSTALL GAS FIRED WATER HEATERS, INCLUDING; SEISMIC BRACING, EXPANSION TANKS, MIXING VALVES, CIRCULATING PUMPS, AND RELATED PIPING, INSULATION AND VALVES. SET WATER HEATER TEMPERATURE AT 140F AND THE MIXING VALVE AT 120F.
2. INSTALL WATER PIPING.
   a. INSTALL COLD WATER PIPING FROM THE POINT OF ENTRY INTO THE BUILDING TO EACH FIXTURE.
   b. INSTALL HOT WATER PIPING FROM EACH WATER HEATER TO EACH FIXTURE REQUIRING HOT WATER.
   c. INSTALL HOT WATER RETURN PIPING FROM THE LAST FIXTURE SERVED TO THE WATER HEATER.

2. INSTALL WATER PIPING (CONT)
   d. INSTALL 3/4" THICK CLOSED CELL P.E. INSULATION ON ALL COLD WATER PIPING EXPOSED AT THE CEILING OF THE KITCHEN. MITER CUT INSULATION AT EACH FITTING. INSTALL 24GA ALUMINUM JACKET OVER INSULATION.
   e. INSTALL 1" THICK CLOSED CELL P.E. INSULATION FOR 1/2" AND 3/4" HOT WATER AND HOT WATER RETURN PIPING. INSTALL 1 1/2" THICK CLOSED CELL P.E. INSULATION FOR 1" AND LARGER PIPE. MITER CUT INSULATION AT EACH FITTING. INSTALL 24GA ALUMINUM JACKET OVER EXPOSED INSULATION.
   f. INSTALL PIPE HANGERS ON 6 FOOT MAXIMUM CENTERS FOR 1 1/2" AND SMALLER PIPE, AND 10 FOOT MAXIMUM CENTERS FOR 2" AND LARGER PIPE.
3. INSTALL WASTE PIPING.
   a. INSTALL WASTE PIPING BELOW BASEMENT FLOOR IN TRENCH WAYS, BEDDED IN 6" SAND BELOW AND ABOVE THE PIPE, BACKFILL WITH #2 BASE IN 6" LIFTS, COMPACT TO 95% OF NATIVE SOIL COMPACTION, TO JUST BELOW THE EXISTING CONCRETE FLOOR. INSTALL #4 REBAR DOWELS, EPOXY SET 4" INTO THE EXISTING CONCRETE FLOOR ON 12" CENTERS. EPOXY COAT ALL EDGES OF THE EXISTING CONCRETE. PLACE 2000 PSF CONCRETE OVER TRENCH WAYS. SMOOTH TROWEL FINISH. SAW CUTTING, CONCRETE REMOVAL AND CONCRETE PATCHING TO BE DONE BY THE GENERAL CONTRACTOR.
   b. INSTALL WASTE PIPING ABOVE THE BASEMENT FLOOR ON CLEVIS OR TRAPEZE HANGERS. INSTALL HANGERS ON EACH SIDE OF JOINT FOR CONTINUOUS RUNS. INSTALL HANGERS AT EACH CHANGE OF DIRECTION.
4. INSTALL VENT PIPING.
   a. INSTALL HORIZONTAL VENT PIPING WITH HANGERS ON 4 FOOT CENTERS.
   b. INSTALL VERTICAL VENT PIPING WITH HANGER AT BASE AND EACH FLOOR.
   c. INSTALL VENT THROUGH ROOF WITH ROOF JACK AND STORM COLLAR. SEAL IN WEATHER TIGHT.
5. INSTALL NATURAL GAS PIPING.
   a. INSTALL GAS PIPING ON CLEVIS HANGERS, ON 6 FOOT CENTERS FOR 1/2", ON 8 FOOT CENTERS FOR 3/4" AND 1", AND 10 FOOT CENTERS FOR 1 1/4" AND LARGER.
   b. INSTALL UL LISTED SHUT OFF VALVE AND FLEX CONNECTOR AT EACH GAS USING APPLIANCE.
   c. UPON COMPLETION OF THE PRESSURE TESTING, START UP ALL GAS USING APPLIANCES.

PLUMBING LEGEND

COLD WATER PIPING ABOVE FLOOR, CW	
COLD WATER PIPING BELOW FLOOR, CW	
HOT WATER PIPING ABOVE FLOOR, HW	
HOT WATER PIPING BELOW FLOOR, HW	
HOT WATER RETURN PIPING, HWR	
WASTE PIPING ABOVE FLOOR, W	
WASTE PIPING BELOW FLOOR, W	
VENT PIPING ABOVE FLOOR, V	
VENT PIPING BELOW FLOOR, V	
GAS PIPING ABOVE GRADE, NG	
GAS PIPING BELOW GRADE, NG	
FLOOR CLEAN OUT, FCO	⊗
WALL CLEAN OUT, WCO	⊣
BALL VALVE	
CHECK VALVE	
DOUBLE CHECK VALVE	
PRESSURE REDUCING VALVE	
GAS SHUT OFF VALVE	
BALANCING COCK	
PIPING UP OR DOWN THROUGH WALL	
90 DEGREE ELBOW	
45 DEGREE ELBOW	
TEE	
90 UP	
90 DOWN	
TEE UP	
TEE DOWN	
VENT THROUGH ROOF, VTR	

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
SCOPE OF WORK AND LEGEND

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn DHH | Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No.
P 1

BASEMENT PLUMBING DEMOLITION NOTES:

A. ALL EXISTING FIXTURES AND EXPOSED WATER AND HYDRONIC PIPING TO BE REMOVED. PIPING TO BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ENVIRON–MENTALLY ACCEPTED MANNER.

B. CUT EXISTING WATER PIPING SERVICED THROUGH THE FLOOR, FLUSH WITH THE FLOOR. WIRE BRUSH THE INSIDE TO BARE METAL. INSERT A FINE MESH WIRE SCREEN PROX. 1/2" BELOW SURFACE AND FILL WITH SILICONE SEALANT.

CUT AND CAP WATER PIPING SERVICED THROUGH THE WALL, WITHIN THE WALL CAVITY.

C. CUT EXISTING WASTE PIPING SERVICED THROUGH THE FLOOR, FLUSH WITH THE FLOOR. INSERT BALLOON PLUG AND FILL WITH CONCRETE, FLUSH WITH THE FLOOR. SMOOTH TROWEL FINISH.

D. REFERENCE GROUND WATER SUMPS. UPON COMPLETION OF RE–ROUTING THE GROUND WATER TO OUTSIDE OF THE BUILDING. FILL THE SUMPS WITH 1 1/2"+ ROCK. INSTALL #4 REBAR DOWELS EPOXY EMEDDED 4" INTO EXISTING CONCRETE FLOOR ON 12" CENTERS. INSTALL #4 REBAR ON 12" CENTERS EACH WAY. PLACE 2,000 PSF CONCRETE PATCH FLUSH WITH FLOOR, SMOOTH TROWEL FINISH.

1. REMOVE EXISTING SUMP PUMP, CONTROL AND RELATED PIPING.
2. REMOVE EXISTING SUMP PUMPS, CONTROLS AND RELATED PIPING. SEE IMAGE 029.
3. REMOVE EXISTING FLUSH VALVE TOILET, NOT TO BE REPLACED OR RELOCATED.
4. REMOVE EXISTING TANK TOILET, NOT TO BE REPLACED OR RELOCATED.
5. REMOVE EXISTING URINAL NOT TO BE REPLACED OR RELOCATED
6. REMOVE EXISTING LAVATORIES, NOT TO BE REPLACED OR RELOCATED.
7. REMOVE EXISTING TWO TUB SINK, DRAIN BOARDS AND FAUCET, TO BE REPLACED WITH NEW 3 TUB SINK AND FAUCET. SEE IMAGE 015
8. REMOVE EXISTING PRE–RINSE SINK AND FAUCET, TO BE REPLACED REPLACED WITH NEW PRE–RINSE SINK AND FAUCET. SEE IMAGE 014
9. REMOVE EXISTING DISHWASHER, TO BE REPLACED WITH NEW COUNTER TOP DISHWASHER. SEE IMAGE 014
10. REMOVE EXISTING GREASE TRAP AND SEWAGE PUMP TO BE REPLACED WITH GREASE INTERCEPTOR TO BE LOCATED OUTSIDE OF BUILDING. SEE IMAGE 017
11. REMOVE EXISTING WATER HEATER. REMOVE FLUE CONNECTED TO CHIMNEY. DISCONNECT NATURAL GAS SERVICE. SEE IMAGE 021
12. REMOVE EXISTING WATER HEATER. REMOVE FLUE CONNECTED TO CHIMNEY. DISCONNECT NATURAL GAS SERVICE. SEE IMAGE 039
13. REMOVE EXISTING PRESSURE WASTE PIPE FROM KITCHEN.
14. REMOVE EXISTING 4" WASTE PIPE.
15. REMOVE EXISTING 2" WASTE PIPE.
16. REMOVE EXISTING BAR SINK AND FAUCET. CLEAN AND STORE FOR RE–INSTALLATION.

SUMP PUMP PIPING IMAGE 029 (1)

SOUTH SUMP, PUMP AND PIPING IMAGE 042 (2)

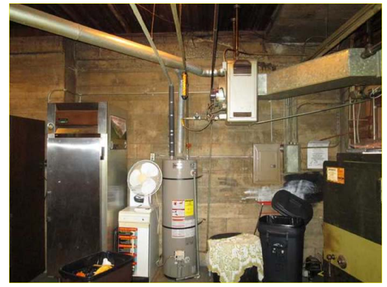
NORTH SUMP, PUMP AND PIPING IMAGE 043 (3)

DISHWASHER AND PRE–RINSE SINK IMAGE 014 (4)

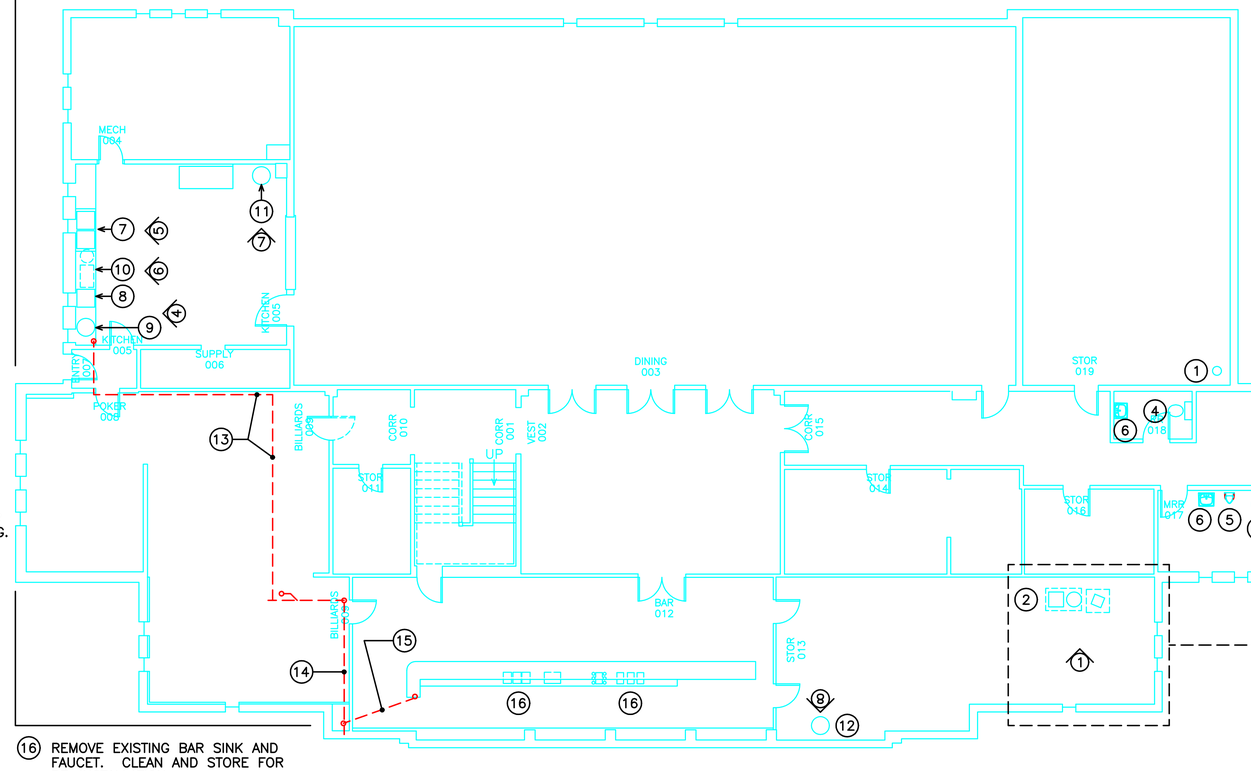
2 TUB SINK WITH DRAIN BOARDS IMAGE 015 (5)

GREASE TRP AND SEWAGE PUMP IMAGE 017 (6)

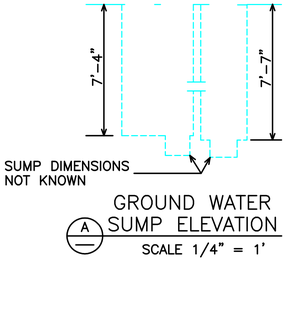
KITCHEN WATER HEATER IMAGE 021 (7)



BASEMENT WATER HEATER IMAGE 039 (8)

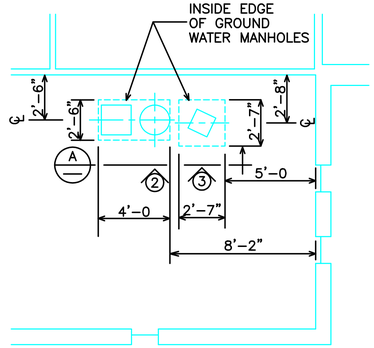


BASEMENT PLUMBING DEMOLITION PLAN (2)
SCALE 1/8" = 1'



SUMP DIMENSIONS NOT KNOWN

GROUND WATER SUMP ELEVATION (A)
SCALE 1/4" = 1'



NORTHEAST GROUND WATER SUMP PLAN

NOTE SCALE 1/4" = 1'

SUMP PLAN DIMENSIONS SHOWN ARE TAKEN FROM OFFSET DIMENSIONS THROUGH MANHOLES +/– 1"

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

REGISTERED PROFESSIONAL ENGINEER · DUANE H. HEBER · No. 15063 Exp. 12/31/17 · MECHANICAL · STATE OF CALIFORNIA

COUNTY OF HUMBOLDT · IN THE REDWOODS

Design Firm
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EUREKA, CA 95501

Consultant

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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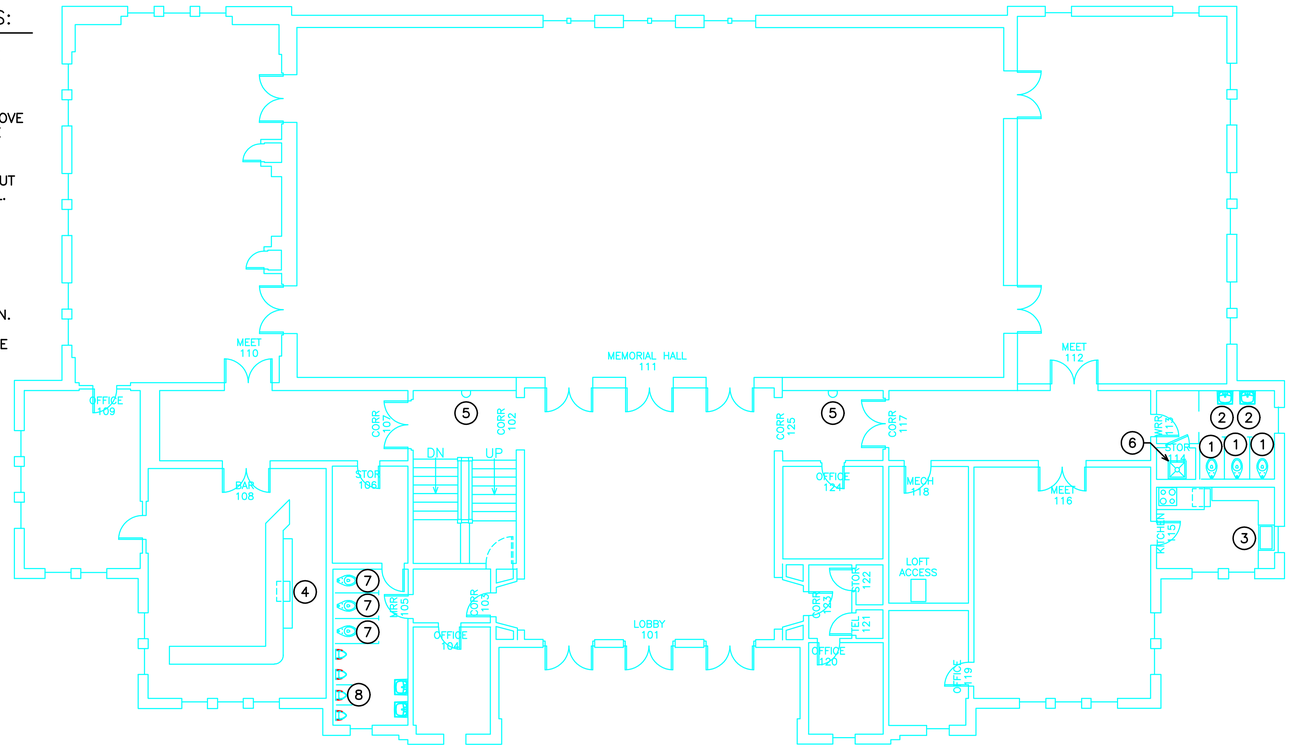
Sheet Title
BASEMENT PLUMBING DEMOLITION PLAN

No.	Date	Appr	Revision Notes

Drawn DHH Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No. P 2

PLUMBING DEMOLITION NOTES:

1. REMOVE EXISTING TOILETS. REMOVE WATER PIPING. REMOVE EXISTING WASTE PIPING.
2. REMOVE EXISTING LAVATORIES. REMOVE WATER PIPING FROM WALL. REMOVE WASTE PIPING.
3. REMOVE EXISTING KITCHEN SINK. CUT AND CAP WATER PIPING WITHIN WALL. REMOVE TRAP ARM AND CAP WASTE CONNECTION WITHIN WALL.
4. REMOVE EXISTING BAR SINK AND FAUCET.
5. REMOVE EXISTING DRINKING FOUNTAIN. MAINTAIN DRINKING FOUNTAINS FOR RELOCATION. NOTE THAT THE ENTIRE WALL ASSEMBLY IS TO BE REMOVED AND STORED FOR RELOCATION.
6. REMOVE EXISTING SERVICE SINK AND FAUCET.
7. REMOVE EXISTING TOILET, TO BE RE-INSTALLED.
8. REPAIR/REPLACE FLUSH VALVE.



1ST FLOOR PLUMBING DEMOLITION PLAN

SCALE 1/8" = 1'

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HESER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

Design Firm
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1106 2ND ST.
EUREKA, CA 95501

Consultant

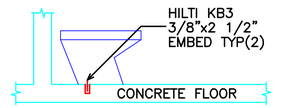
Sheet Title: 1ST FLOOR PLUMBING DEMOLITION PLAN

Project Title: **EUREKA VETERANS MEMORIAL BUILDING**
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

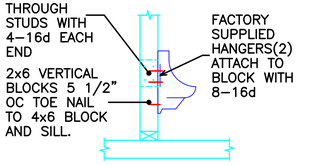
Project ID: 210502

No.	Date	Appr	Revision Notes

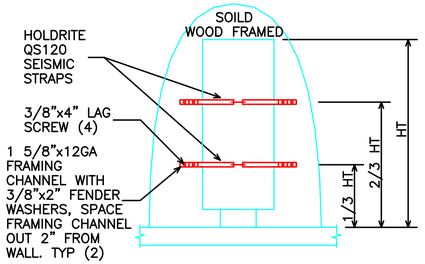
Drawn: DHH | Reviewed:
Date: 11/10/16
Scale: 1/8" = 1'
Sheet No: P 3



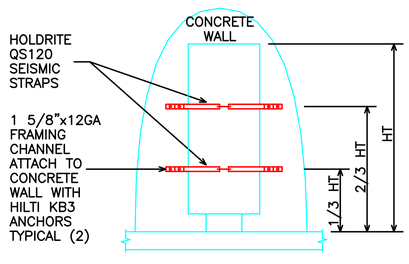
FLOOR MOUNTED
TOILET ANCHOR DETAIL (A)
NTS



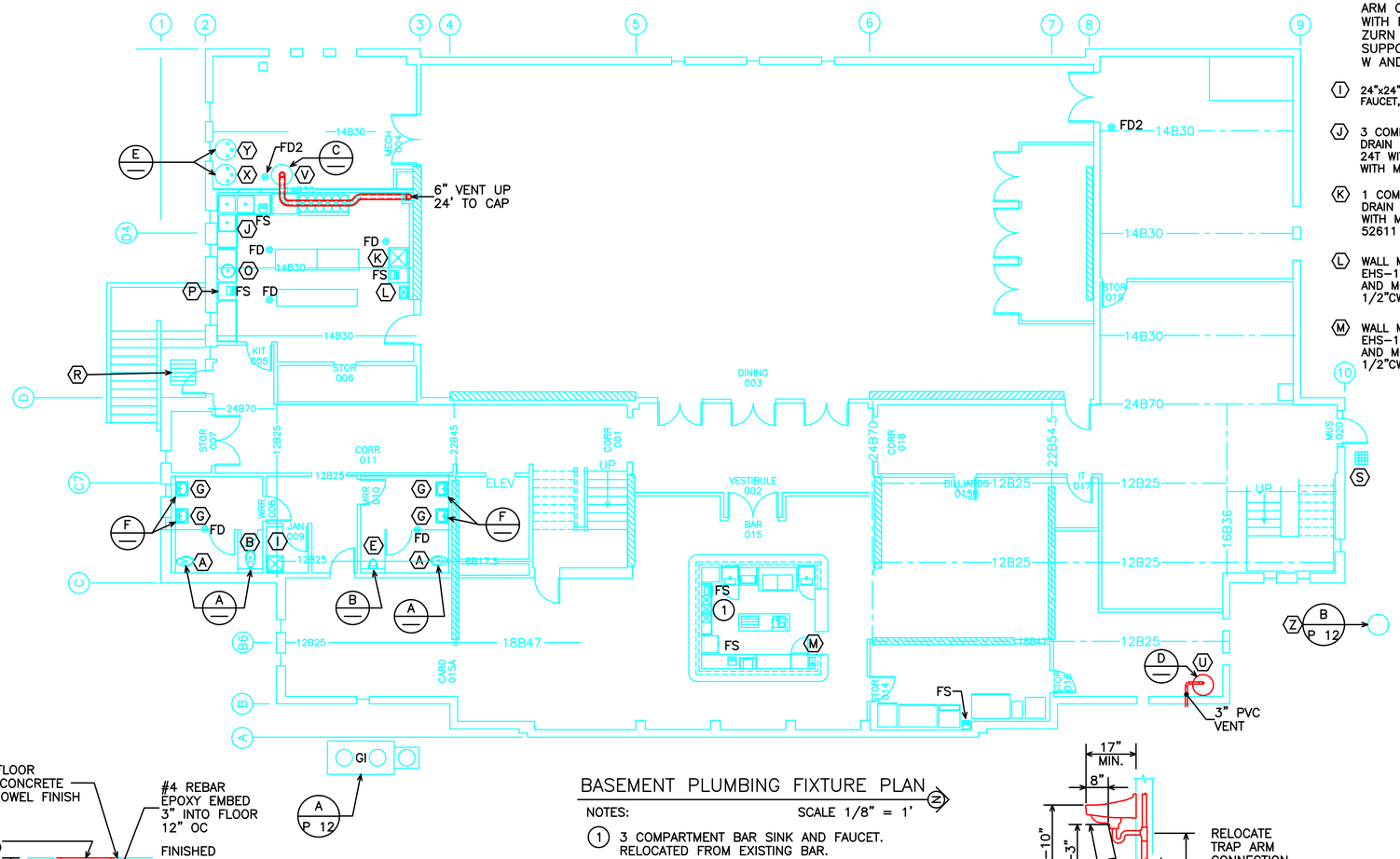
WALL MOUNTED
URINAL ANCHOR DETAIL (B)
NTS



WATER HEATER
SEISMIC BRACING (C)
NOTE: NTS
ORIGINAL PLAN SHOW THE
WALL TO BE SOLID WOOD FRAMED.

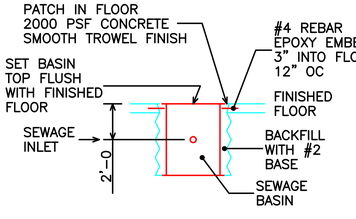


WATER HEATER
SEISMIC BRACING (D)
NOTE: NTS
SEISMIC STRAPS TO BE ANCHORED
TO CONCRETE WALL

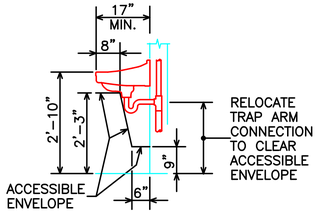


BASEMENT PLUMBING FIXTURE PLAN (Z)
SCALE 1/8" = 1'

NOTES:
(1) 3 COMPARTMENT BAR SINK AND FAUCET. RELOCATED FROM EXISTING BAR.



SEWAGE BASIN DETAIL (E)
TYPICAL OF 2 NTS



LAV ELEVATION (F)
SCALE 1/2" = 1'

PLUMBING FIXTURE SCHEDULE

SHEET P 4 INCLUDES FIXTURES WHICH ARE PLUMBING CONNECTED. SEE SHEET A603 FOR FIXTURES WHICH ARE NOT PLUMBING CONNECTED.

NOTE THAT THE FIXTURES LISTED ARE FOR THE BASEMENT FLOOR ONLY.

(A) ACCESSIBLE FLOOR MOUNTED FLUSH VALVE TOILET, VITREOUS CHINA. ELONGATED RIM WITH OPEN FRONT SEAT. COLOR WHITE 1 1/4"CW, 3"W AND 2"V, 1.6/1.1 GAL/FLUSH KOHLER K–4368 WITH SLOAN WES–111 DUAL FLUSH VALVE AND CHURCH 9500C SEAT.

(B) STANDARD FLOOR MOUNTED FLUSH VALVE TOILET, VITREOUS CHINA, ELONGATED RIM WITH OPEN FRONT SEAT, COLOR WHITE, 1 1/4"CW, 3"W AND 2"V, 1.6/1.1 GAL/FLUSH. KOHLER K–4350 WITH SLOAN WES–111 DUAL FLUSH VALVE AND CHURCH 9500C SEAT.

(E) WALL MOUNTED FLUSH VALVE URINAL, VITREOUS CHINA, COLOR WHITE WITH WALL MOUNTED CARRIER, 0.5 GAL/FLUSH. KOHLER K–5014–ET WITH ROYAL SLOAN 186–0.5 FLUSH VALVE. 3/4"CW, 2"W AND 1 1/2"V

(G) ACCESSIBLE WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER SET FAUCET HOLES, COLOR WHITE AND WALL MOUNTED CONCEALED ARM CARRIERS, KOHLER K–2005 WITH MOEN 8215F05 FAUCET AND ZURN 1251 CONCEALED ARM SUPPORT. 1/2"CW & HW, 1 1/2" W AND 1 1/4"V, 0.5GPM

(I) 24"x24" MOP SINK FIAT TSB3010 WITH MOEN 8232 FAUCET, 1/2"CW & HW, 3"W AND 2"V.

(J) 3 COMPARTMENT CORNER SINK WITH DOUBLE DRAIN BOARDS, BK RESOURCES BKCS–24–24–24T WITH MOEN 8119 FAUCETS (2), WITH WITH MOEN 52611 1.5 GPM AERATORS.

(K) 1 COMPARTMENT PREP SINK WITH RIGHT DRAIN BOARD, ELKAY 1C24X24–R–24X WITH MOEN 8119 FAUCET AND MOEN 52611 1.5 GPM AERATOR.

(L) WALL MOUNTED HAND WASH SINK, ELKAY EHS–18–S–LX WITH MOEN 8281 FAUCET AND MOEN 52603 AERATOR 0.5 GPM, 1/2"CW & HW, 1 1/4"W AND 1 1/4"V

(M) WALL MOUNTED HAND WASH SINK, ELKAY EHS–18–SSX WITH MOEN 8281 FAUCET AND MOEN 52603 AERATOR 0.5 GPM, 1/2"CW & HW, 1 1/4"W AND 1 1/4"V

(O) INSINKERATOR SS 200 FOOD DISPOSER, WITH 18" BOWL SINK AND AS–101 ELECTRICAL CONTROL, AND T&S BRASS B–0133–B WALL MOUNTED FAUCET. 1/2"CW & HW, 2"W AND 1 1/2"V. 120V–60HZ–1PH, 12.2 FLA.

(P) ECOLAB ES 2000 COUNTER MOUNTED DISHWASHER, 120V–60HZ–1PH, 12 FLA, 3/4"HW (140F), 2"W INDIRECT PIPED TO FLOOR SINK.

(V) RHEEM G76–200 NATURAL GAS FIRED WATER HEATER, INPUT HEATING RATE 199,900 BTUH, RECOVERY 215 GPH AT 90 F TEMPERATURE RISE. SET OUTLET TEMPERATURE AT 140 F. CLEARANCE TO COMBUSTIBLE 2" SIDE AND REAR, 12" TOP. DRAFT HOOD CONNECTION 6" DIAMETER, UL LISTED DOUBLE WALL TYPE B VENT. 120V–60HZ–1PH, 0.3 FLA, WET WT. 1110 LB. PROVIDE WITH:

1. SYMMONS 7–400 THERMOSTATIC MIXING VALVE. SET OUTPUT TEMPERATURE AT 120 F.

(U) RHEEM GP–100–200 NATURAL GAS FIRED WATER HEATER, INPUT HEATING RATE 199,900 BTUH, RECOVERY 215 GPH AT 90 F TEMPERATURE RISE. SET OUTLET TEMPERATURE AT 140 F. CLEARANCE TO COMBUSTIBLE 2" SIDE AND 4" REAR, 18" TOP. 3" PVC HORIZONTAL VENT, 2 1/2" MIN. VENT LENGTH WITH 1–90 ELL. 120V–60HZ–1PH, 1.5 FLA, WET WT. 1610 LB. PROVIDE WITH:

1. SYMMONS 7–400 THERMOSTATIC MIXING VALVE. SET OUTPUT TEMPERATURE AT 120 F.
2. TACO 003–BC4 HOT WATER RETURN CIRCULATION PUMP, WATER FLOW 4 GPM AT 3 FEET HEAD, 120V–60HZ–1PH, 1/40 HP, 0.43 FLA, AQUASTAT CONTROL, WT. 6 LB.

(X) LIBERTY LE72A2–2 DUPLEX SEWAGE PUMPS, INCLUDING 36" DIAMETER X 48" DEEP BASIN WITH SEWAGE INLET 24" BELOW TOP. SYSTEM TO INCLUDE WATER AND AIR TIGHT LID AND AE21L=4 DUPLEX CONTROL PANEL. SYSTEM FOR PUMPING DOMESTIC WASTE, NOT INCLUDING WASTE FROM KITCHEN FLOOR DRAINS AND SINKS. 208V–60HZ–1PH, 2–3/4HP PUMPS.

(Y) LIBERTY LE72A2–2 DUPLEX SEWAGE PUMPS, INCLUDING 36" DIAMETER X 48" DEEP BASIN WITH SEWAGE INLET 24" BELOW TOP. SYSTEM TO INCLUDE WATER AND AIR TIGHT LID AND AE21L=4 DUPLEX CONTROL PANEL. SYSTEM FOR PUMPING WASTE FROM KITCHEN FLOOR DRAINS AND SINKS, NOT FOR PUMPING WASTE FROM COMMERCIAL DISHWASHER OR FOOD DISPOSER. 208V–60HZ–1PH, 2–3/4 HP PUMPS.

(Z) TWO LIBERTY 281–2 SUMP PUMPS IN 36" DIAMETER WELL CASING. 120V–60HZ–1PH, TWO 1/2 HP. PROVIDE WITH HIGH LEVEL ALARM AND FLOAT. INSTALL ALARM IN ROOM 016 STORAGE.

(R) TWO LIBERTY 281–2 SUMP PUMPS IN 36"x36"x48" HILFIKER DRAIN INLET WITH GRATE, 120V–60HZ–1PH, TWO 1/2 HP. PROVIDE WITH HIGH LEVEL ALARM AND FLOAT. INSTALL ALARM IN ROOM 005 KITCHEN.

(S) 18"x18"x24" HILFIKER DI WITH GRATE, PROVIDE 4" SIDE OUTLET 1'–6" BELOW TOP.

FD ZURN Z415H FLOOR DRAIN WITH STAINER, 2"W AND 1 1/2"V.

FD2 ZURN Z415H FLOOR DRAIN WITH STRAINER AND FUNNEL TOP, 2"W AND 1 1/2"V.

FS 12" FLOOR SINK WITH HALF DCCI GRATE, ZURN Z1901, 3"W AND 2"V.

GI HILFIKER 750 GALLON GREASE INTERCEPTOR WITH SAMPLE PORT. PROVIDE WITH RISERS, RINGS AND AND FLAT LIDS.

BWV1 SPEARS PVC S275P(2"), S375P(3"), S475P(4")

BWV2 SPEARS PVC WITH SURFACE ACCESS KIT; S275P(2"), S375P(3"), S475P(4") PROVIDE SURFACE ACCESS KIT HEIGHT TO MATCH PIPE DEPTH BELOW GRADE OR FLOOR.

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
BASEMENT PLUMBING
FIXTURE PLAN

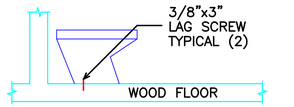
Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn DHH Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No.
P 4

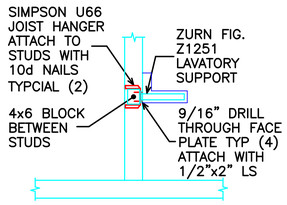
REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA



FLOOR MOUNTED TOILET ANCHOR DETAIL (A)

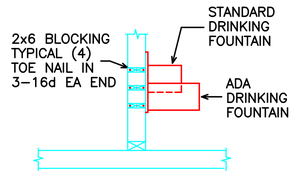
NOTE: NTS

ORIGINAL PLANS SHOW THE FLOOR TO BE CONSTRUCTED OF 2x4 LAMINATED WOOD.



LAVATORY ANCHOR DETAIL (B)

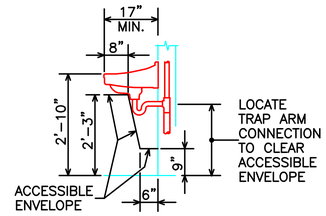
NTS



ADA & STD DRINKING FOUNTAIN ANCHOR DETAIL (C)

NOTE: NTS

ATTACH DRINKING FOUNTAINS TO BLOCKING WITH 1/4"x2 1/2" SCREWS, TYPICAL 6 EACH DF



LAVATORY ELEVATION (D)

SCALE 1/2" = 1'

PLUMBING FIXTURE SCHEDULE

NOTE THAT THE FIXTURES LISTED ARE FOR THE FIRST FLOOR ONLY.

(A) ACCESSIBLE FLOOR MOUNTED FLUSH VALVE WATER CLOSET, VITREOUS CHINA, ELONGATED RIM WITH OPEN FRONT SEAT, COLOR WHITE 1 1/4"CW, 3"W AND 2"V, 1.6/1.1 GAL/FLUSH KOHLER # 4368 WITH SLOAN WES-111 DUAL FLUSH VALVE. AND CHURCH 9500C SEAT

(B) STANDARD FLOOR MOUNTED FLUSH VALVE WATER CLOSET, VITREOUS CHINA, ELONGATED RIM WITH OPEN FRONT SEAT, COLOR WHITE 1 1/4"CW, 3"W AND 2"V, 1.6/1.1 GAL/FLUSH KOHLER K-4350 WITH SLOAN WES-111 DUAL FLUSH VALVE. AND CHURCH 9500C SEAT

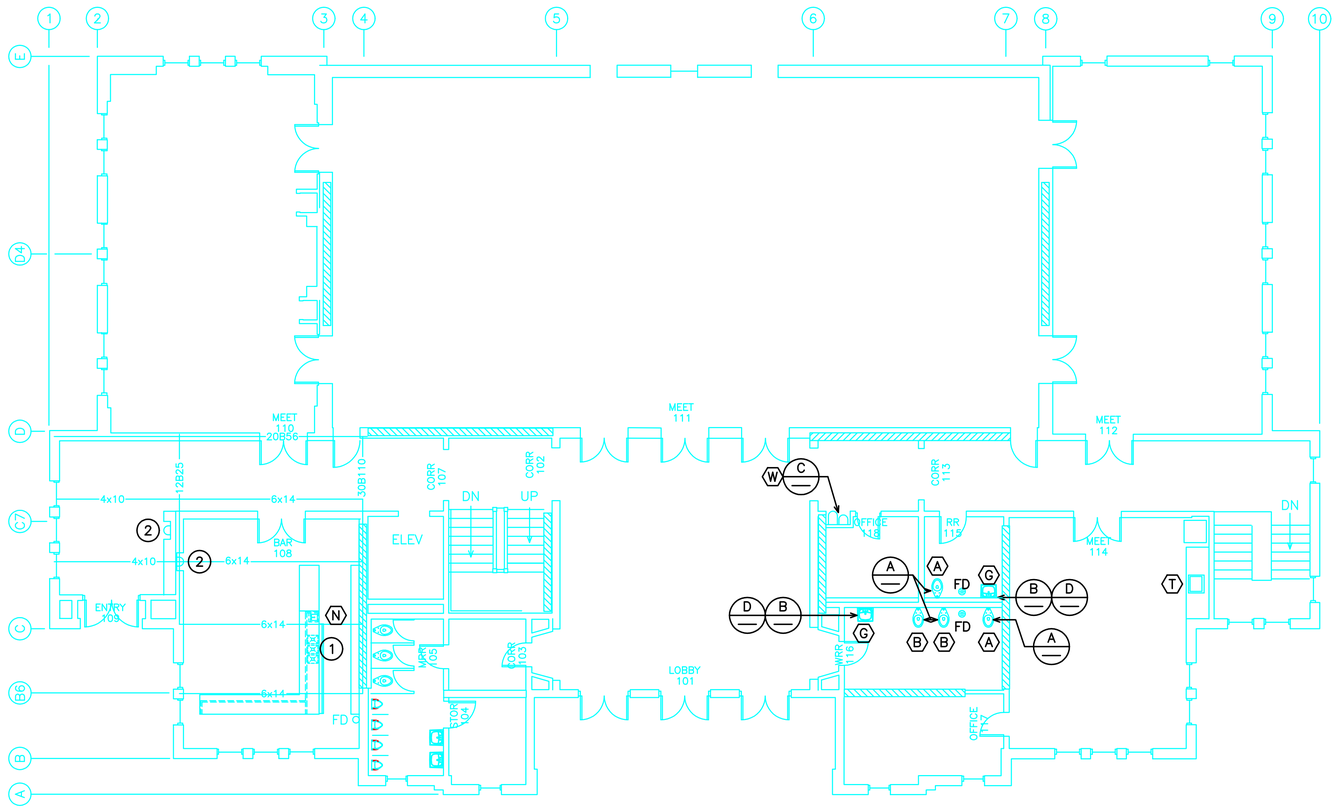
(G) ACCESSIBLE WALL HUNG LAVATORY, VITREOUS CHINA, WITH 4" CENTER SET FAUCET HOLES, COLOR WHITE AND WALL MOUNTED CONCEALED ARM CARRIERS, KOHLER # K-2005 WITH MOEN # 8215F05 FAUCET AND ZURN # 1251 CONCEALED ARM SUPPORT 1/2"CW & HW, 1 1/2"W AND 1 1/4"V, 0.5 GPM

(N) SINGLE COUNTER MOUNTED SINK, ELKAY # LRADQ1316, 10"x10"x6 1/2" WITH MOEN# 8279 FAUCET SET AND SS STRAINER 1/2"CW & HW, 2"W AND 1 1/2"V, 1.5 GPM

(T) SINGLE COUNTER MOUNTED SINK, ELKAY # LRADQ1919, 16"x13 1/2"x6 1/2" WITH MOEN# 8279 FAUCET SET AND SS STRAINER 1/2"CW & HW, 2"W AND 1 1/2"V, 1.5 GPM

(W) ACCESSIBLE AND STANDARD WALL HUNG NON-REFRIGERATED DRINKING FOUNTAIN, ELKAY # EDFP217C WITH CP-10 AND CP-14 COVER PLATES, AND MP-41 MOUNTING PLATE, 1/2"CW, 1 1/2"W AND 1 1/4"V

FD ZURN FD2240 FLOOR DRAIN WITH STAINER, 2"W AND 1 1/2"V.



1ST FLOOR PLUMBING FIXTURE PLAN (N)

NOTE: SCALE 1/8" = 1'

(1) 3 COMPARTMENT BAR SINK AND FAUCET. SEE ARCHITECTURAL SHEET A-603

(2) RELOCATED DRINKING FOUNTAIN. SEE ARCHITECTURAL PLAN FOR LOCATION.

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
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STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
1ST FLOOR PLUMBING FIXTURE PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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210502

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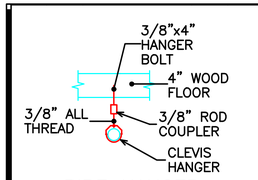
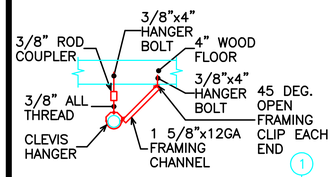
Scale 1/8" = 1'
Sheet No.
P 5



PIPE HANGER DETAIL (F)

NOTES: NTS

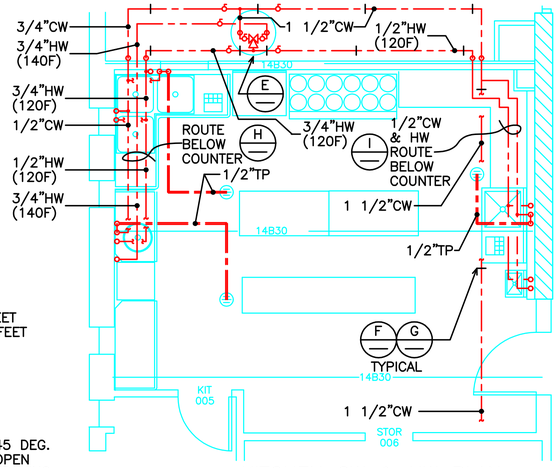
1. TYPICAL OF SINGLE PIPE HANGER
2. TYPICAL OF WOOD TO HANGER =< 12"
3. HANGER SPACING 6 FEET FOR =< 1 1/2", 10 FEET FOR => 2"



PIPE HANGER DETAIL (G)

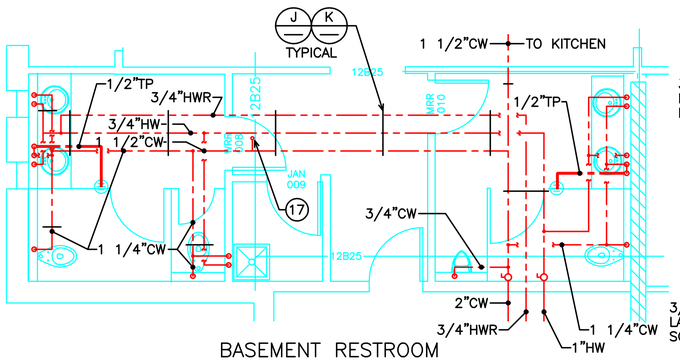
NOTES: NTS

1. TYPICAL OF SINGLE PIPE HANGER
2. TYPICAL OF WOOD TO HANGER > 12"
3. HANGER SPACING: 6 FEET FOR =< 1 1/2" 10 FEET FOR => 2"



KITCHEN CW & HW PLAN (A)

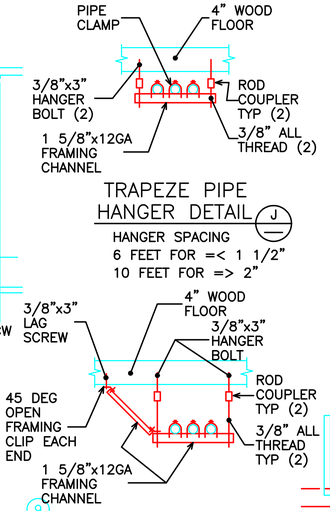
SCALE 1/4" = 1'



BASEMENT RESTROOM COLD AND HOT WATER PLAN (B)

NOTE: SCALE 1/4" = 1'

(17) 1/2" COLD WATER UP TO RELOCATED DRINKING FOUNTAINS.

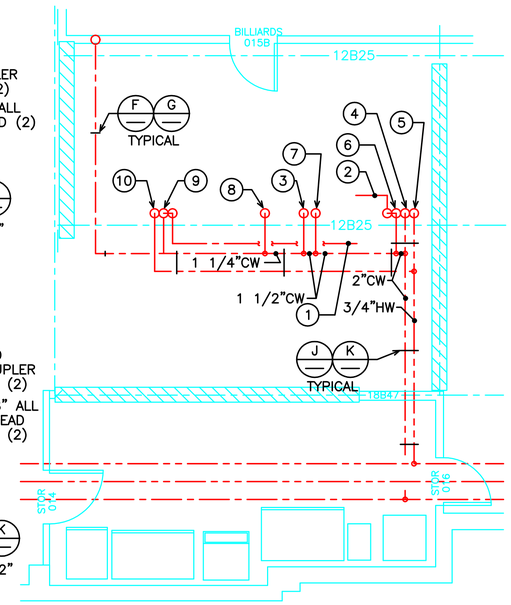


TRAPEZE PIPE HANGER DETAIL (J)

HANGER SPACING
6 FEET FOR =< 1 1/2"
10 FEET FOR => 2"

TRAPEZE PIPE HANGER DETAIL (K)

HANGER SPACING
6 FEET FOR =< 1 1/2"
10 FEET FOR => 2"

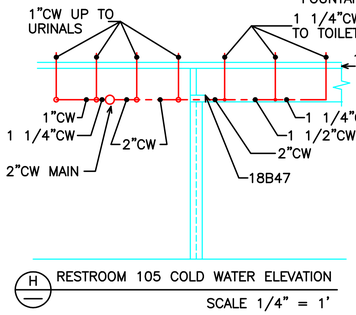


COLD AND HOT WATER UP TO FIRST FLOOR RESTROOMS 115 AND 116 (C)

SCALE 1/4" = 1'

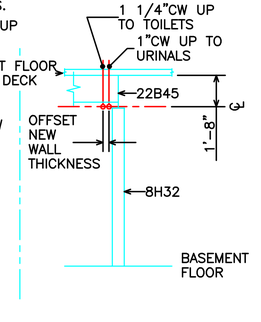
NOTES:

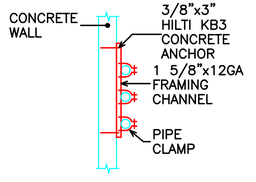
1. 1/2" TRAP PRIMER TO WRR116 FLOOR DRAIN.
2. 1/2" TRAP PRIMER TO RR115 FLOOR DRAIN.
3. 1 1/4"CW UP TO RR115 TOILET.
4. 1/2"CW UP TO RR115 LAVATORY.
5. 1/2"HW UP TO RR115 LAVATORY.
6. 1 1/4"CW UP TO WRR116 NORTH TOILET.
7. 1 1/4"CW UP TO WRR116 MIDDLE TOILET.
8. 1 1/4"CW UP TO WRR116 SOUTH TOILET.
9. 1/2"CW UP TO WRR116 LAVATORY.
10. 1/2"HW UP TO WRR116 LAVATORY.
11. 1/2"CW UP TO ACCESSIBLE DRINKING FOUNTAINS.



H RESTROOM 105 COLD WATER ELEVATION

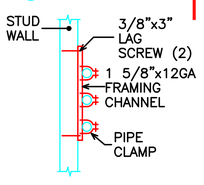
SCALE 1/4" = 1'





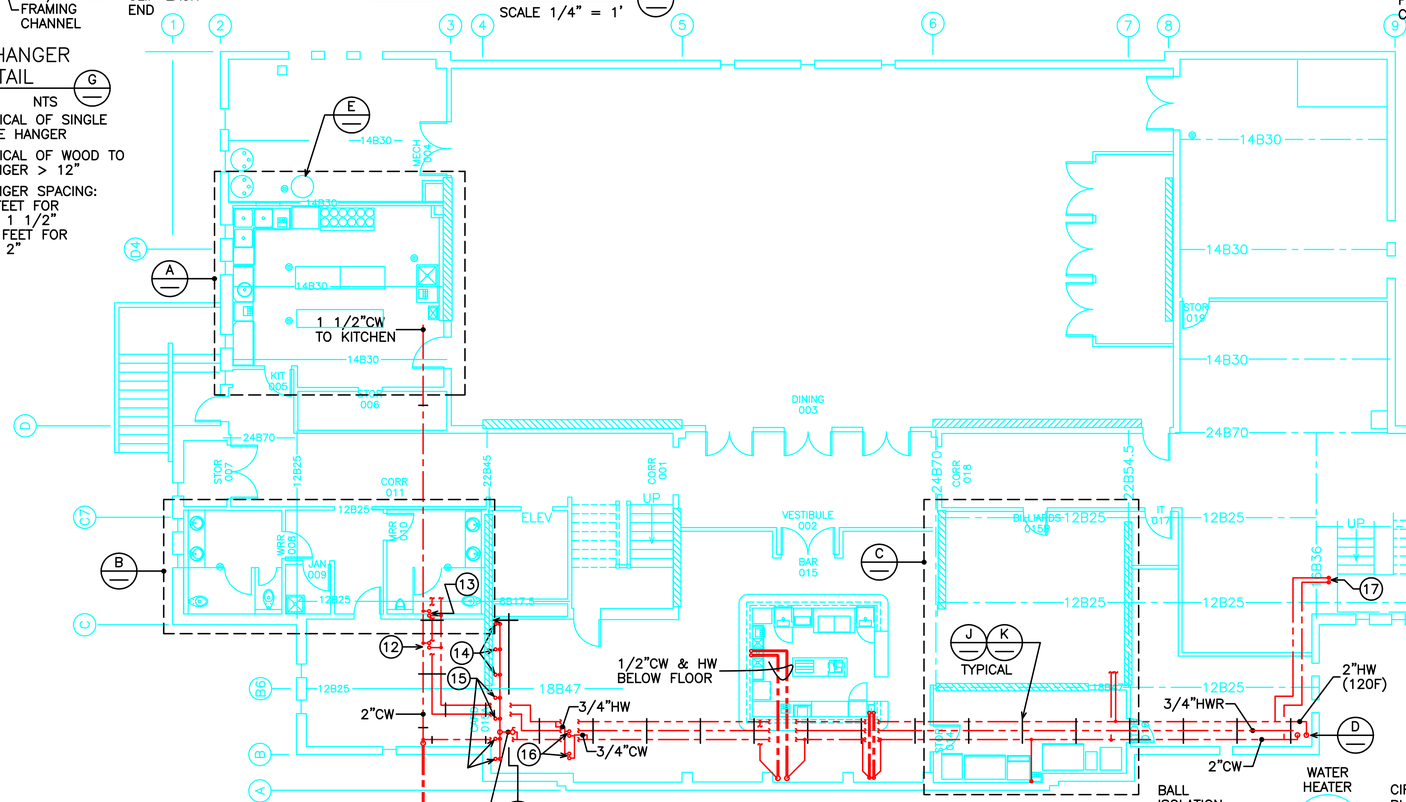
WALL PIPE HANGER (H)

HANGER SPACING: NTS
6 FEET FOR =< 1 1/2"
10 FEET FOR => 2"



WALL PIPE HANGER (I)

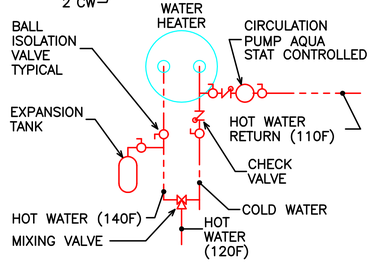
HANGER SPACING: NTS
6 FEET FOR =< 1 1/2"
10 FEET FOR => 2"



BASEMENT COLD AND HOT WATER PLAN (Z)

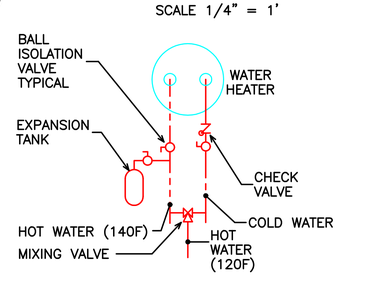
NOTES: SCALE 1/8" = 1'

1. COLD AND HOT WATER PIPING 1/2" UNLESS OTHERWISE NOTED.
12. 1/2"CW & HW UP TO BAR108 3 COMPARTMENT SINK.
13. 1/2"CW & HW UP TO BAR108 HAND SINK.
14. 1 1/2"CW UP TO MRR105 TOILETS.
15. 1"CW UP TO MRR105 URINALS.
16. 1/2"CW & HW UP TO MRR105 LAVATORIES.
17. 1/2"CW & HW UP TO RM 114 SINK.



WATER HEATER PIPING DETAIL (D)

NTS



WATER HEATER PIPING DETAIL (E)

NTS

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1106 2ND ST.
EUREKA, CA 95501

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Sheet Title: BASEMENT COLD AND HOT WATER PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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Sheet No.	P 6		

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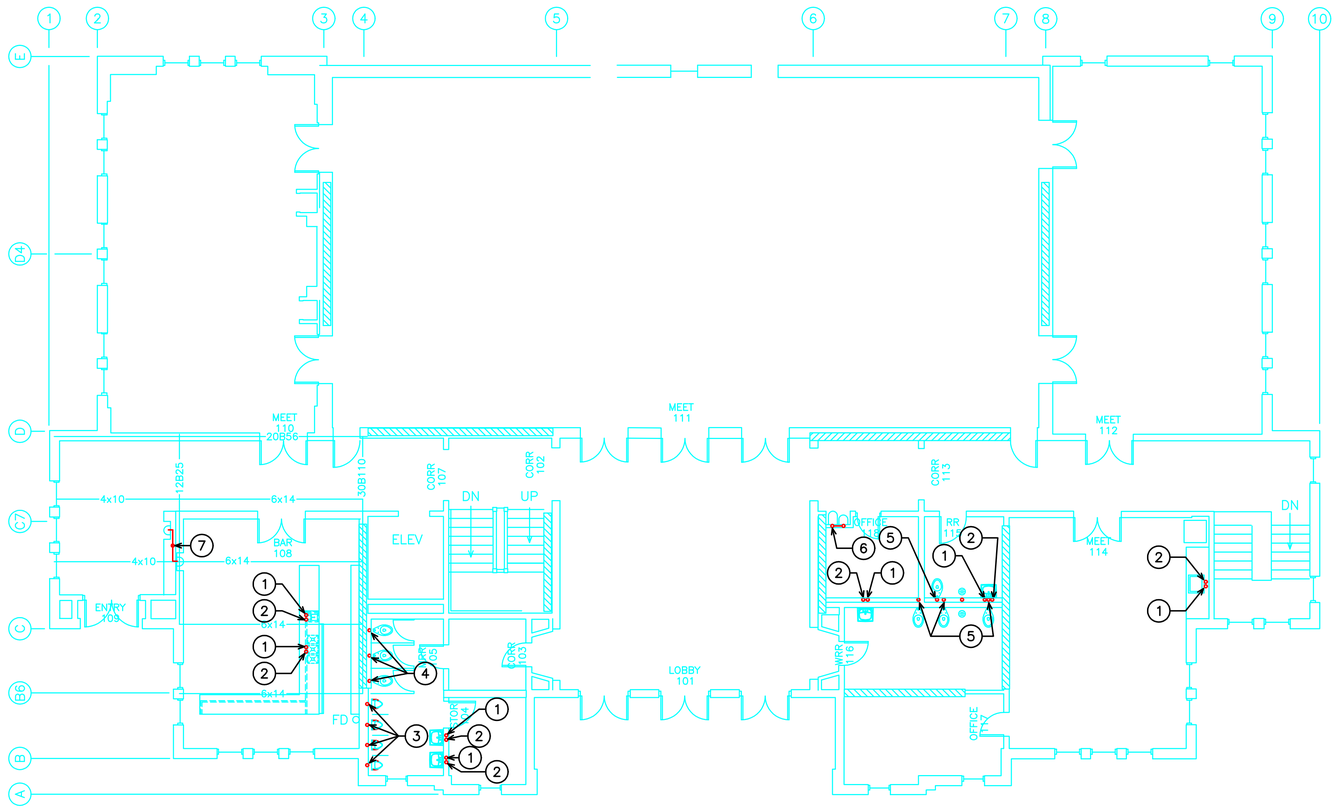
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT



1ST FLOOR COLD AND HOT WATER PLAN

SCALE 1/8" = 1'

COLD AND HOT WATER NOTES:

1. 1/2" COLD WATER UP FROM BASEMENT CEILING.
2. 1/2" HOT WATER UP FROM BASEMENT CEILING.
3. 1" COLD WATER UP FROM BASEMENT CEILING.
4. 1 1/2" COLD WATER UP FROM BASEMENT CEILING.
5. 1 1/4" COLD WATER UP FROM BASEMENT CEILING.
6. 1/2" COLD WATER UP FROM BASEMENT CEILING.
7. 1/2" COLD WATER UP FROM BASEMENT CEILING.

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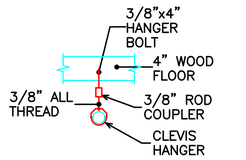
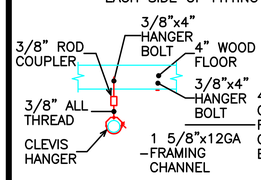
Sheet No.
P 7



PIPE HANGER DETAIL G

NOTES: NTS

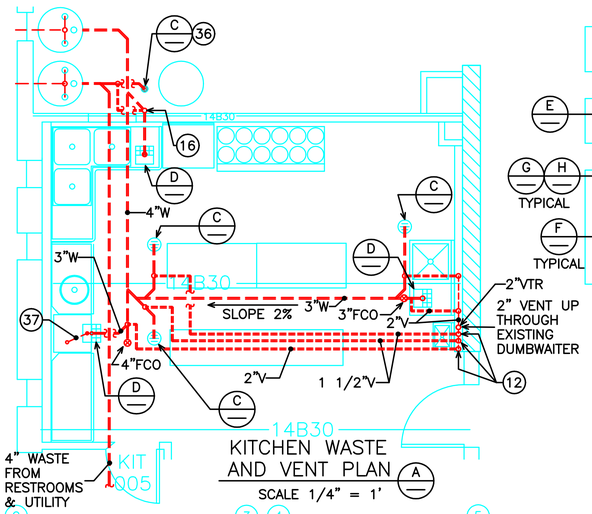
1. TYPICAL OF SINGLE PIPE HANGER
2. HANGER SPACING: PVC DWV 4 FEET ON CENTER. STD WT CAST IRON 10 FEET ON CENTER EACH SIDE OF FITTING



PIPE HANGER DETAIL H

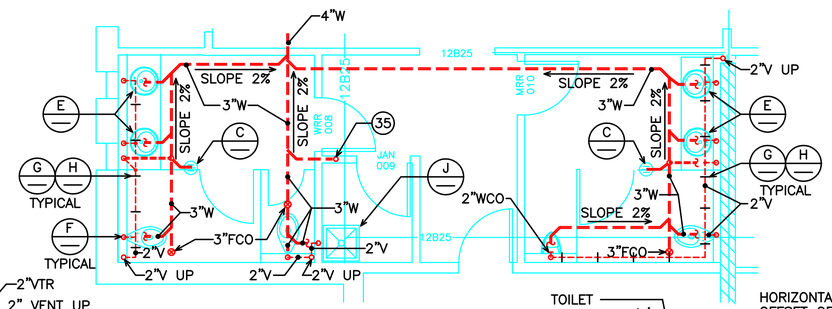
NOTES: NTS

1. TYPICAL OF SINGLE PIPE HANGER
2. HANGER SPACING PVC DWV 4 FEET ON CENTER. STD WT CAST IRON 10 FEET ON CENTER EACH SIDE OF FITTINGS



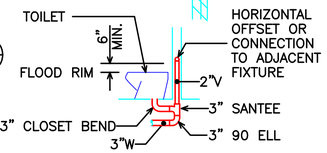
KITCHEN WASTE AND VENT PLAN A

SCALE 1/4" = 1'



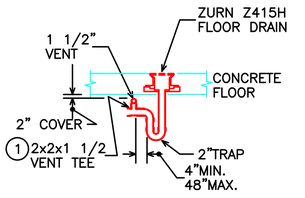
RESTROOM WASTE AND VENT PLAN B

SCALE 1/4" = 1'



FLUSH VALVE TOILET WASTE AND VENT DETAIL F

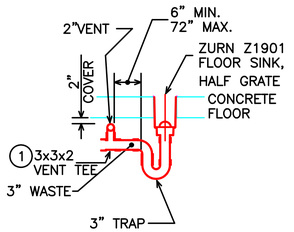
NTS



FLOOR DRAIN DETAIL C

NOTES:

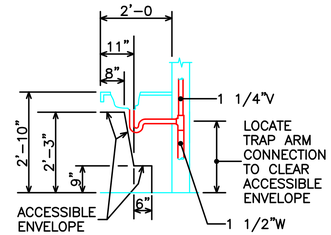
1. VENT TEE MAY BE ROLLED 45 DEG WITH 1 1/2" STREET ELL TO MINIMIZE FLOOR TO PIPE CENTER LINE DIMENSION.
2. SEE BUBBLE NOTE 13.



FLOOR SINK DETAIL D

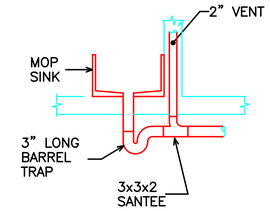
NOTES: SCALE 1/2" = 1'

1. VENT TEE MAY BE ROLLED 45 DEG WITH 2"x45 STREET ELL TO DECREASE THE FLOOR LINE TO PIPE CENTER LINE DIMENSION.
2. SEE BUBBLE NOTE 17



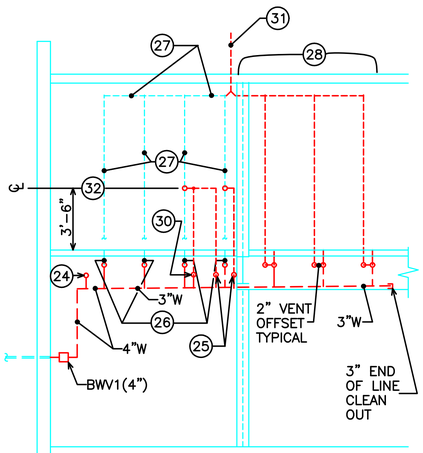
LAV ELEVATION E

SCALE 1/2" = 1'



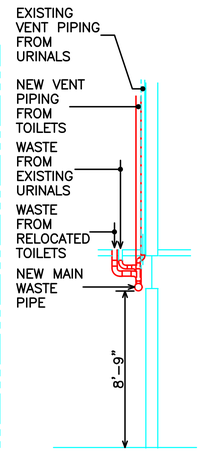
MOP SINK WASTE AND VENT ELEVATION J

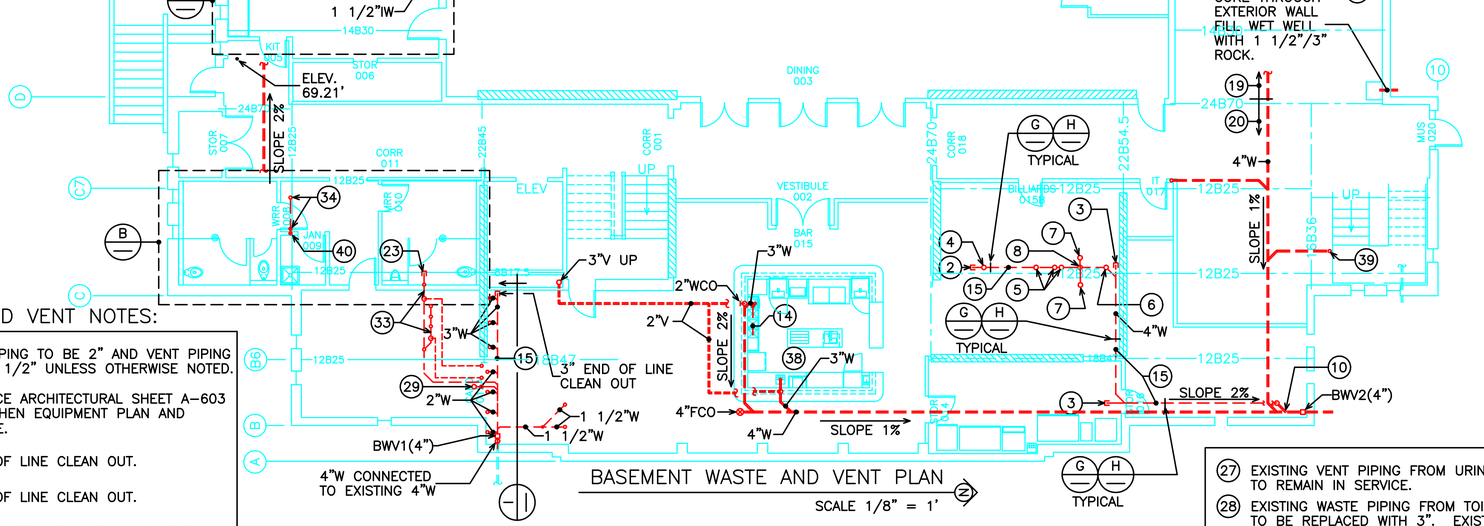
NTS



MRR 105 WASTE AND VENT PIPING ELEVATION I

SCALE 1/4" = 1'





BASEMENT WASTE AND VENT PLAN Z

SCALE 1/8" = 1'

WASTE AND VENT NOTES:

A. WASTE PIPING TO BE 2" AND VENT PIPING TO BE 1 1/2" UNLESS OTHERWISE NOTED.

1. REFERENCE ARCHITECTURAL SHEET A-603 FOR KITCHEN EQUIPMENT PLAN AND SCHEDULE.
2. 2" END OF LINE CLEAN OUT.
3. 4" END OF LINE CLEAN OUT.
4. 1 1/4" WASTE DOWN FROM LAVATORY.
5. 3" WASTE DOWN FROM TOILET.
6. 3" WASTE DOWN FROM BACK TO BACK LAVATORY AND TOILET.
7. 2" WASTE DOWN FLOOR CLEAN OUT. 1 1/2" VENT THROUGH ROOF.
8. 2" WASTE DOWN FLOOR CLEAN OUT.
9. 1 1/2" VENT CONNECTED TO ADJACENT VENT 6" ABOVE FLOOR DRAIN FLOOD RIM.
10. 4"x4"x2" WYE WITH SIDE INLET FACED UP. (CONDENSATE DRAIN).
11. 2" MOP SINK VENT CONNECT TO TOILET VENT.
12. EXTEND VENTS 6" ABOVE FLOOD RIM OF THE FLOOR SINK BEFORE CONNECTING TO THE VERTICAL VENT.
13. PROVIDE FLOOR DRAIN WITHOUT GRATE.
14. 2"-3 COMPARTMENT SINK DRAIN INTO FLOOR SINK.
15. WASTE PIPING ROUTED ALONG CEILING, BENEATH STRUCTURAL BEAMS.
16. 2" WASTE UP TO CEILING.
17. CONDENSATE FLOOR SINK, NO GRATE
18. VENT PIPING ROUTED ALONG CEILING, BENEATH STRUCTURAL BEAMS.
19. WASTE PIPE INSTALLED IN NEW FILL ABOVE EXISTING CONCRETE FLOOR.
20. WASTE PIPE INSTALL BELOW EXISTING CONCRETE FLOOR.
21. JOINT TRENCH 2" VENT WITH WASTE PIPE.
22. OFFSET 2" VENT ALONG SIDE OF 16B40.
23. 1 1/2" END OF LINE CLEAN OUT.
24. 2" WASTE FROM MRR 105 LAV'S.
25. 2" WASTE FROM BAR 108 SINKS.
26. CUT EXISTING WASTE FROM URINALS 6" BELOW FLOOR.
27. EXISTING VENT PIPING FROM URINALS TO REMAIN IN SERVICE.
28. EXISTING WASTE PIPING FROM TOILETS TO BE REPLACED WITH 3". EXISTING VENT PIPING FROM TOILETS TO BE REPLACED WITH 2".
29. 2" WASTE DOWN FROM FLOOR DRAIN.
30. 2" WASTE FROM BAR 108 FLOOR DRAIN. SEE BUBBLE NOTE 13.
31. 3" VENT THROUGH ROOF.
32. CONNECT VENTS FROM BAR 108; FLOOR DRAIN, BAR SINK AND HAND SINK INTO EXISTING URINAL VENTS.
33. 2" TRAP
34. 1 1/4" WASTE FROM DRINKING FOUNTAIN CONNECT TO 1 1/4" WASTE DOWN.
35. 1 1/2" WASTE DOWN FROM DRINKING FOUNTAINS AND CONDENSATE DRAIN.
36. FLOOR DRAIN WITH FUNNEL TOP
37. 1 1/2" DRAIN FROM DISHWASHER
38. ROUTE DRAIN FROM ICE BIN, COOLERS AND HAND SINK TO FLOOR SINKS, ALONG WALL BEHIND EQUIPMENT.
39. 2" WASTE DOWN FROM ROOM 114 SINK.
40. 2" WASTE DOWN FROM DRINKING FOUNTAINS AND CONDENSATE DRAIN.

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

BASEMENT WASTE AND VENT PLAN

Drawn	DHH	Reviewed	
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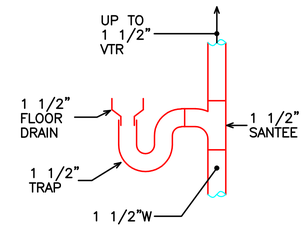
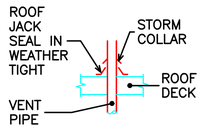
Scale	1/8" = 1'		
Sheet No	P 8		

Project ID 210502



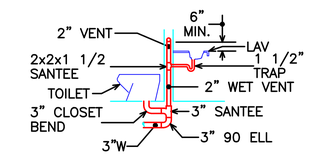
CONDENSATE DRAIN (A)

NTS



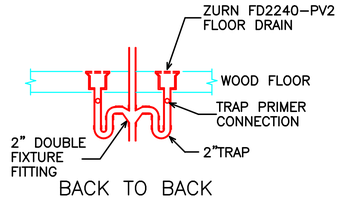
VENT THROUGH ROOF DETAIL (B)

NTS



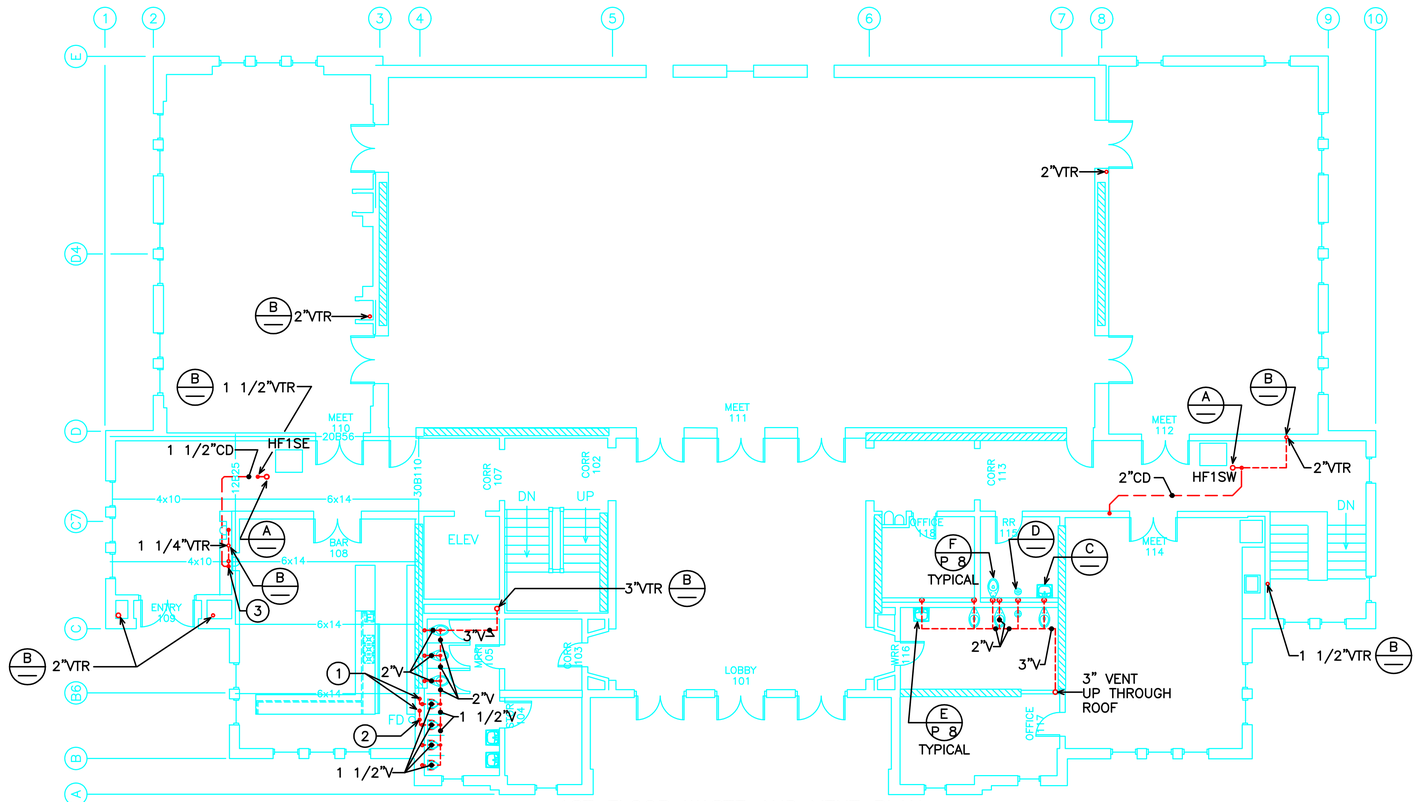
BACK TO BACK TOILET AND LAV WASTE AND VENT ELEVATION (C)

NTS



BACK TO BACK FLOOR DRAIN ELEVATION (D)

NOTE:
SET FLOOR DRAIN GRATE FLUSH WITH FLOOR.



1ST FLOOR WASTE AND VENT PLAN (Z)

SCALE 1/8" = 1'

NOTES:

A HORIZONTAL VENT PIPING SHOWN OFFSET FOR CLARITY.

(1) 1 1/2" VENT PIPES FROM BAR 108, THREE COMPARTMENT SINK AND HAND SINK, UP 3'-6" ABOVE FIRST FLOOR, THEN CONNECT TO EXISTING URINAL VENT.

(2) 1 1/2" VENT PIPE FROM BAR 108 FLOOR DRAIN, UP 3'-6" ABOVE FIRST FLOOR, THEN CONNECT TO EXISTING URINAL VENT.

(3) 1 1/2" WASTE DOWN FROM DRINKING FOUNTAINS AND CONDENSATE DRAIN.

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

Design Firm
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Consultant

Sheet Title
1ST FLOOR WASTE AND VENT PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
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APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

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Date 11/10/16
Scale 1/8" = 1'
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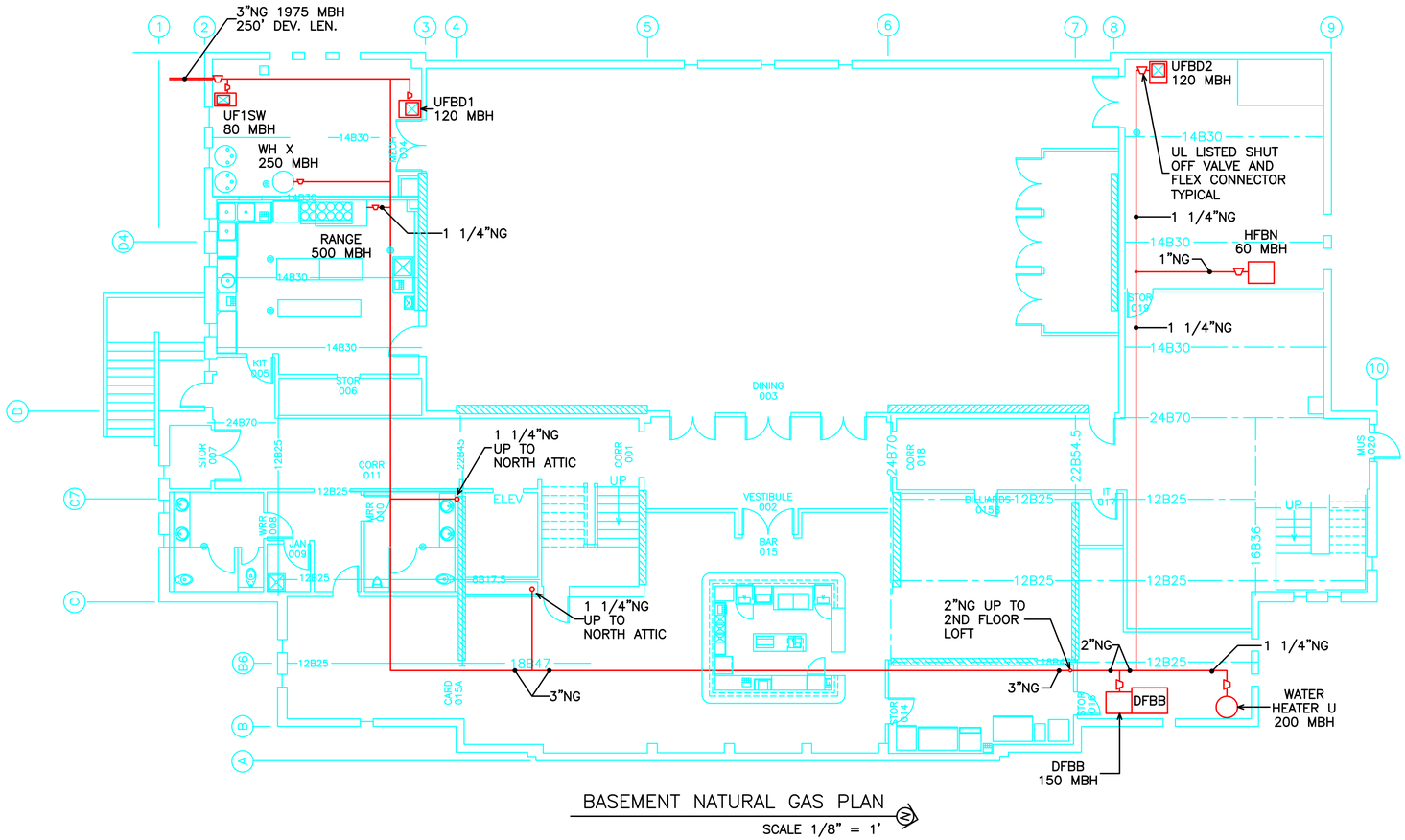
P 9



BASEMENT NATURAL GAS PLAN

SCALE 1/8" = 1'

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FOR REVIEW
AND COMMENT

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Sheet Title
BASEMENT
NATURAL GAS
PLAN

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No.	Date	Appr	Revision Notes

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Scale 1/8" = 1'
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REGISTERED PROFESSIONAL ENGINEER
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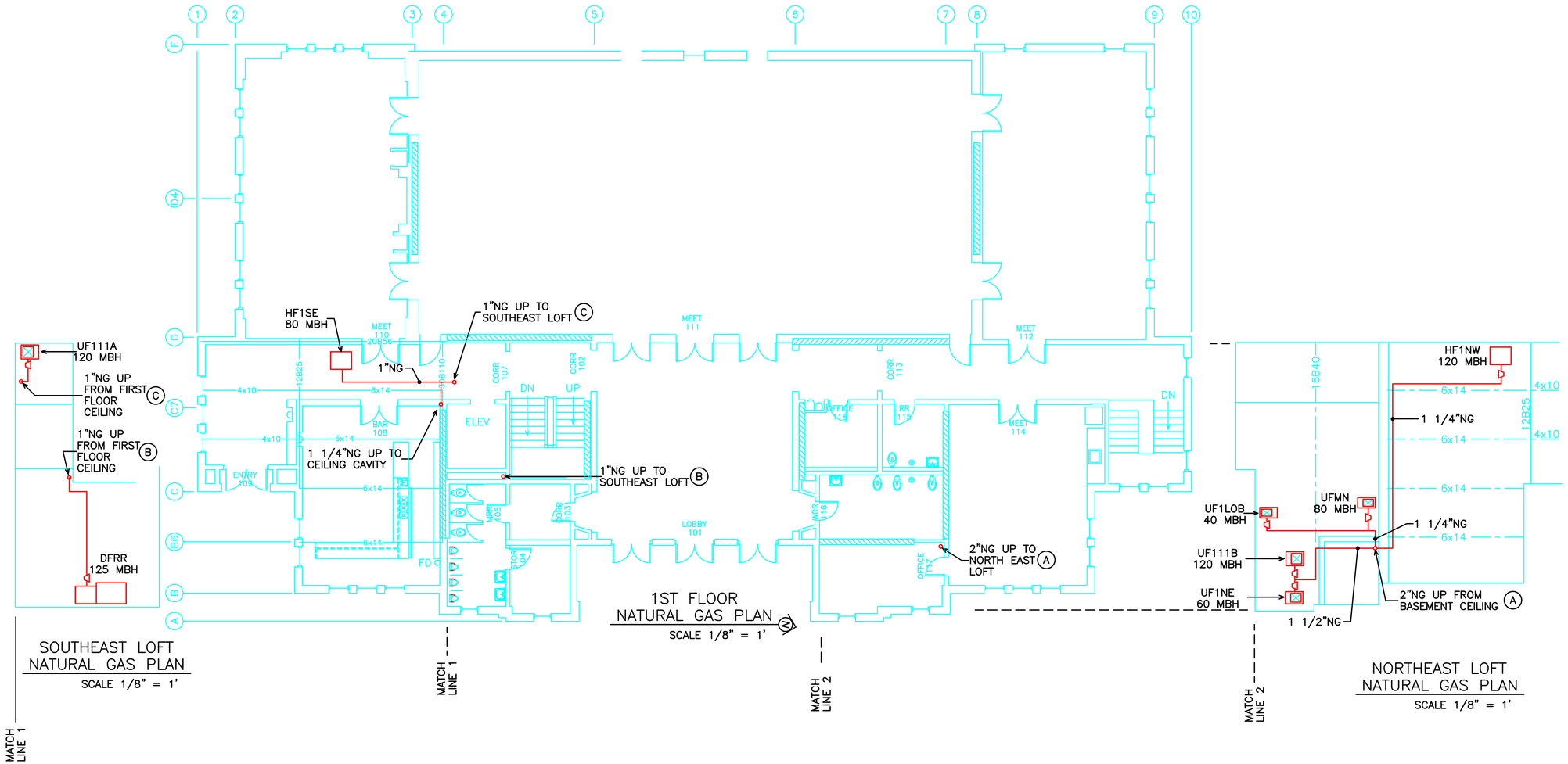

SOUTHEAST LOFT
NATURAL GAS PLAN
SCALE 1/8" = 1'

1ST FLOOR
NATURAL GAS PLAN
SCALE 1/8" = 1'

NORTHEAST LOFT
NATURAL GAS PLAN
SCALE 1/8" = 1'

PRELIMINARY PLAN
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1ST FLOOR
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No. 15063
Exp. 12/31/17
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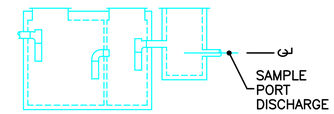
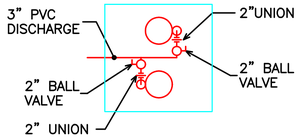


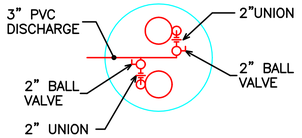
GREASE INTERCEPTOR ELEVATION (A)

SCALE 1/4" = 1'



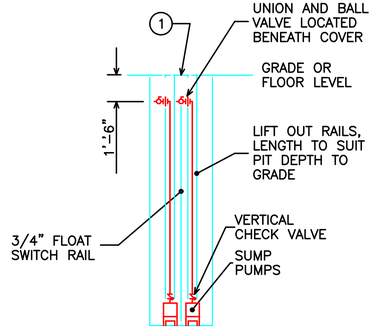
TOP END PIPING DETAIL (F)

NTS



TOP END PIPING DETAIL (E)

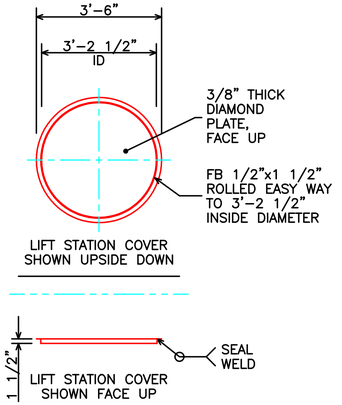
NTS



TYPICAL SUMP PUMP ELEVATION (D)

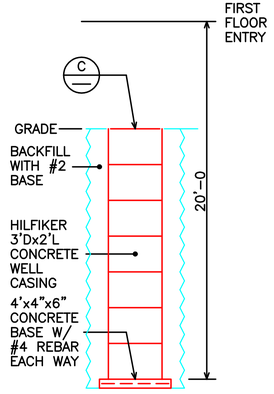
NOTE: NTS

(1) COVER PLATE, DETAIL C FOR NORTH SUMP, HILFIKER GRATE FOR SOUTH SUMP.



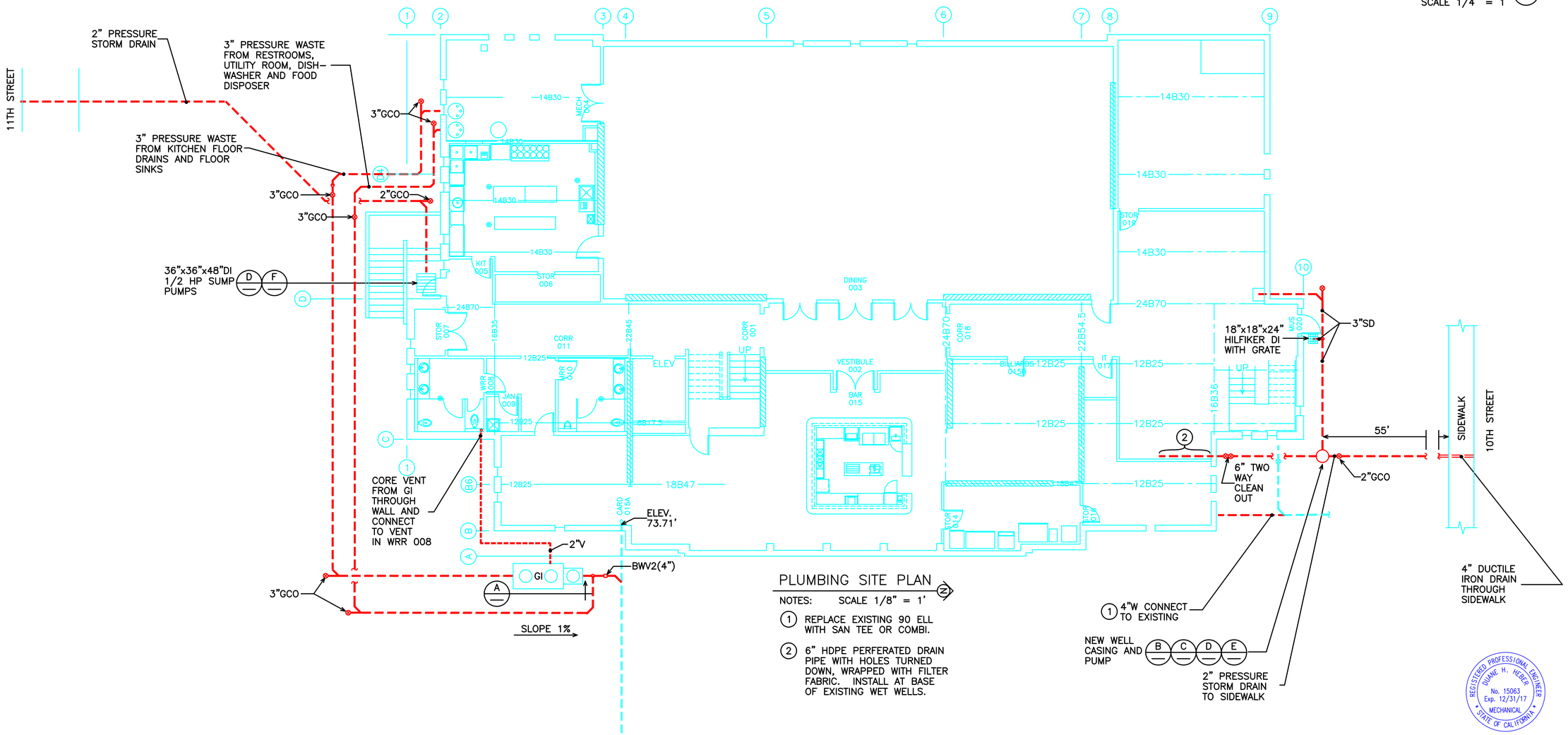
LIFT STATION COVER DETAIL (C)

SCALE 1/2" = 1'



3' DIAMETER WELL CASING (B)

SCALE 1/4" = 1'



PLUMBING SITE PLAN

NOTES: SCALE 1/8" = 1'

(1) REPLACE EXISTING 90 ELL WITH SAN TEE OR COMBI.

(2) 6" HDPE PERFERATED DRAIN PIPE WITH HOLES TURNED DOWN, WRAPPED WITH FILTER FABRIC. INSTALL AT BASE OF EXISTING WET WELLS.

REGISTERED PROFESSIONAL ENGINEER DUANE H. HEBER No. 15063 Exp. 12/31/17 MECHANICAL STATE OF CALIFORNIA

PRELIMINARY PLAN

FOR REVIEW AND COMMENT

Design Firm

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Consultant

Sheet Title: PLUMBING SITE PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: DHH | Reviewed:
Date: 11/10/16
Scale: 1/8" = 1'
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A. INTENT:

IT IS THE INTENT OF THE PROJECT TO REPLACE THE LIMITED HOT WATER HEATING AND WARM AIR HEATING SYSTEMS IN THEIR ENTIRETY, WITH NATURAL GAS FIRED FURNACES EQUIPPED WITH AIR SIDE ECONOMIZERS. RESTROOMS AND THE BASEMENT BAR, BILLIARDS AND CARD ROOMS ARE TO BE SUPPLIED WITH 100% OUTSIDE AIR THROUGH DUCT FURNACES.

B. DEMOLITION:

ALL EXISTING HOT WATER HEATING AND WARM AIR HEATING SYSTEMS ARE TO BE REMOVED. ALL HOT WATER PIPING AND DUCT WORK ARE TO BE REMOVED. ALL EQUIPMENT AND MATERIALS REMOVED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ENVIRONMENTALLY ACCEPTED MANNER. PATCH IN UNUSED WALL PENETRATIONS.

C. BASEMENT LOCATED MECHANICAL SYSTEMS:

1. FURNACE UNIT UFBD1 IS TO SERVE THE SOUTH END OF THE BASEMENT DINING ROOM 003.

a. THREE WINDOWS IN THE WEST WALL OF THE BASEMENT MECH ROOM TO BE INCRESED IN WIDTH TO 30". WORK TO BE DONE BY THE GENERAL CONTRACTOR

b. INSTALL 28"x36" OUTSIDE AIR LOUVERS IN THE WEST FACING, NORTH AND MIDDLE WINDOW OPENING. EACH OPENING IS TO BE EQUIPPED WITH A COUNTER BALANCED BACK DRAFT DAMPER AND A 4x4 MESH SCREEN.

c. INSTALL 28"x36" COMBUSTION AIR LOUVER IN THE WEST FACING, SOUTH WINDOW OPENING, WITH 4x4 MESH SCREEN, WITH AN INSIDE REGISTER FACE.

d. INSTALL A 30"x24" OUTSIDE AIR PLENUM, WITH A 24"x18" OUTSIDE AIR DUCT TO UFBD1. INSULATION IS NOT REQUIRED FOR THE OUTSIDE AIR PLENUM.

e. INSTALL UFBD1, EQUIPPED WITH AN AIR SIDE PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH THE SOUTH WALL AT THE SW CORNER.

f. INSTALL SUPPLY PLENUM, DUCT AND REGISTER. INSTALL RETURN DUCT AND REGISTER.

g. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE SOUTH WALL OF THE DINING ROOM, CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

h INSTALL PHOTOELECTRIC SMOKE DETECTOR IN SUPPLY PLENUM.

i INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

j. CUT 43"x13" PENETRATION THROUGH THE CEILING. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

k. INSTALL 42"x12" CEILING GRAVITY REIEF REGISTER AND DUCT UP THROUGH THE CEILING.

2. TYPE I HOOD IS TO SERVE THE RANGE.

a. CONSTRUCT A 22"x18" OPENING IN THE WEST WALL OF THE KITCHEN, LOCATION TO MATCH THE HOOD COLLAR LOCATION. NOTE THAT THE ORIGINAL PLANS SHOW THE KITCHEN WEST WALL TO BE SOLID CONSTRUCTED.

b. INSTALL 90"x48" TYPE I HOOD COMPLETE WITH VAPOR PROOF LIGHTS AND WET FIRE SUPPRESSION SYSTEM. EXHAUST COLLAR IS TO BE BACK CONNECTED.

c. INSTALL 16"x11"/16" TRANSITION CONNECTING THE HOOD TO THE EXHAUST SYSTEM. TRANSITION IS TO BE INSULATED WITH DOUBLE WRAP OF 3M 615+ FIRE WRAP.

d. INSTALL 16" METALFAB 3G GREASE DUCT SYSTEM TO THE NORTH ALONG THE EAST WALL OF THE MECHANICAL ROOM, THEN UP THROUGH A NEW 1HR FIRE RATED CHASE TO THE EXHAUST FAN ABOVE THE ROOF. INSTALL 45/45 OFFSET ABOVE FIRST FLOOR CEILING.

e. INSTALL THE WET FIRE SUPPRESSION SYSTEM.

3. MAKE UP AIR SYSTEM:

a. INSTALL 16"x36" LOUVERS WITH 4x4 MESH SCREEEN AND COUNTER BALANCED BACK DRAFT DAMPER IN EACH OF THE TWO SOUTH FACING WINDOW OPENINGS IN THE SOUTH FACE OF THE SW MECHANICAL ROOM.

b. INSTALL 20"x16" MAKE UP AIR PLENUM. INSULATION IS NOT REQUIRED.

c. INSTALL INLINE CENTRIFUGAL FAN WITH MERV 8 FILTER.

d. INSTALL 20"x16" SUPPLY DUCT CONNECTED TO A 24"x24" REGISTER FACED INTO THE KITCHEN. NOTE THAT THE ORIGINAL PLANS SHOW THE WALL TO BE SOLID CONSTRUCTED.

e. INTERCONNECT THE FAN TO START/STOP WITH THE TYPE I KITCHEN HOOD EXHAUST FAN.

4. TYPE II DISHWASHER HOOD.

a. INSTALL 42"x42" TYPE II DISHWASHER HOOD.

b. INSTALL 13"x11"/10" MITER ELBOW AT THE HOOD COLLAR.

c. INSTALL 10" 24GA ALUMINUM EXHAUST DUCT ALONG KITCHEN CEILING, THEN VERTICALLY TO CONNECT WITH THE EXHAUST FAN ABOVE THE ROOF. HORIZONTAL DUCT TO BE SLOPED 2% BACK TO THE HOOD. DUCT TO BE SEALED WATER TIGHT. INSTALL 45/45 OFFSET ABOVE FIRST FLOOR CEILING.

5. FURNACE UF1SW IS TO SERVE THE FIRST FLOOR SOUTHWEST MEETING ROOM 110 AND THE KITCHEN 005.

a. INSTALL A 20"x14" OUTSIDE AIR DUCT CONNECTED TO THE TOP OF THE 30"x24" PLENUM. INSULATION IS NOT REQUIRED FOR THE OUTSIDE AIR DUCT.

b. INSTALL UF1SW, EQUIPPED WITH AN AIR SIDE PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH SOUTH WALL AT SW CORNER.

c. INSTALL SUPPLY DUCTWORK WITH BRANCH CONNECTIONS UP THROUGH THE FIRST FLOOR. INSTALL GYM GRADE FLOOR REGISTERS IN THE MEETING ROOM FLOOR. INSTALL A BRANCH REGISTER FACING INTO THE KITCHEN.

d. INSTALL RETURN DUCTWORK WITH A GYM GRADE FLOOR REGISTER IN THE MEETING ROOM FLOOR. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH WEST WALL AT SW CORNER.

e. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE NORTH WALL OF THE MEETING ROOM, CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

f. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

6. FURNACE UFBD2, LOCATED IN NW STORAGE ROOM 019, SERVES THE NORTH END OF DINING ROOM 003.

a. CONSTRUCT TWO 30"x30" PENETRATION IN THE NORTH WALL. ORIGINAL PLANS SHOW THIS WALL TO BE CAST IN PLACE CONCRETE. CONSTRUCTION TO BE BY THE GENERAL CONTRACTOR.

b. INSTALL 28"x28" OUTSIDE AIR LOUVERS IN TWO PENETRATIONS. EACH OPENING IS TO BE EQUIPPED WITH 4x4 MESH SCREEN AND A COUNTER BALANCED BACK DRAFT DAMPER.

c. INSTALL 24"x18" OUTSIDE AIR PLENUM AND DUCT TO UFBD2. INSULATION IS NOT REQUIRED.

d. INSTALL UFBD2, EQUIPPED WITH AN AIR SIDE PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH NORTH WALL AT NW CORNER.

e. INSTALL SUPPLY PLENUM, DUCT AND REGISTER. INSTALL RETURN DUCT AND REGISTER.

f. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE NORTH WALL OF THE DINING ROOM, CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

g. INSTALL PHOTOELECTRIC SMOKE DETECTOR IN SUPPY PLENUM.

h. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

7. FURNACE HFBN, LOCATED IN NW STORAGE ROOM 019, SERVES STORAGE ROOM 019, MUSEUM 020, CORRIDOR 018 AND VESTIBULE 002.

a. INSTALL 14"x14" OUTSIDE AIR DUCT CONNECTED TO THE 24"x18" OUTSIDE AIR PLENUM. INSULATION IS NOT REQUIRED.

b. INSTALL HFBN, EQUIPPED WITH AND AIR SIDE PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH NORTH WALL AT THE NW CORNER.

c. INSTALL SUPPLY DUCTS AND REGISTERS. INSTALL RETURN DUCTS AND REGISTERS.

d. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE WEST WALL OF THE MUSEUM ROOM, CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

e. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

8. DUCT FURNACE DFBB SERVES THE BLLIARD ROOM 015B, BAR ROOM 015, STORAGE ROOM 014, MECH ROOM 016 AND IT ROOM 017.

8. DUCT FURNACE DFBB (CONT)

a. THREE WINDOWS IN THE MECH ROOM 016 ARE TO BE REMOVED. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 16"x36" OUTSIDE AIR LOUVERS WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER IN THE TWO NORTH FACING WINDOW OPENINGS. INSTALL 16"x36" COMBUSTION AIR LOUVER WITH 4x4 MESH SCREEN IN THE EAST FACING WINDOW OPENING.

c. INSTALL 24"x16" OUTSIDE AIR DUCT. iNSULATION IS NOT REQUIRED.

d. INSTALL DUCT FURNACE WITH BLOWER ASSEMBLY. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH THE EAST WALL.

e. CONTROLS TO INCLUDE WALL MOUNTED PROPORTIONING THERMOSTAT IN THE NORTH WALL OF THE BAR.

f. INSTALL SUPPLY DUCTS AND REGISTERS.

g. INSTALL 54"x10" GRAVITY RELIEF REGISTER IN THE WEST FACE OF THE BAR ROOM. INSTALL 54"x10" GRAVITY RELIEF DUCT UP TO THE SOUTH ATTIC.

9. WWR 008, JAN009, MRR 010, CORRIDOR 011 AND CARD ROOM 015A:

a. INSTALL SUPPLY DUCTS AND REGISTERS.

b. INSTALL CEILING EXHAUST FANS IN WRR 008, JAN 009 AND MRR 010.

D. FIRST FLOOR LOCATED MECHANICAL SYSTEMS:

1. DUCT FURNACE DFRR SERVES MRR 105, CORR 103, STOR 104, WRR 008, JAN 009, MRR 010, CORR 011 AND CARD ROOM 015A.

a. CUT 18 1/2" DIAMETER HOLE THROUGH THE ROOF. WORK TO BE DONE BY GENERAL CONTRACTOR.

b. INSTALL GRAVITY OUTSIDE AIR HOOD.

c. INSTALL 18" OA DUCT, WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER.

d. INSTALL DUCT FURNACE WITH BLOWER ASSEMBLY. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH ROOF AT NE CORNER ABOVE STOR 014.

e. CONTROLS TO INCLUDE WALL MOUNTED PROPORTIONING THERMOSTAT IN THE NORTH WALL OF THE CARD ROOM 015A.

d. INSTALL 16"x16" SA DUCT WITH SPLIT TO ONE 16"x10" SA DUCT DOWN TO BASEMENT FLOOR CEILING AND ONE 18"x10" SA DUCT DOWN TO FIRST FLOOR CEILING. INSTALL SA DUCTS AND REGISTERS IN MRR 105, CORR. 103 AND STOR. 104.

e. CONTROLS TO INCLUDE WALL MOUNTED PROPORTIONING THERMOSTAT IN THE NORTH WALL OF THE BASEMENT CARD ROOM 015A.

2. FURNACE UF111A SERVES THE SOUTH END OF MEETING ROOM 111.

a. CUT 32"x50" PENETRATION THROUGH THE SOUTH WALL. CUT 36"x36" OUTSIDE AIR PENETRATION THROUGH THE SOUTH WALL. CUT TWO 32"x25" PENETRATIONS THROUGH THE EAST WALL OF MEETING 101 AT THE SE CORNER, ABOVE THE DOOR. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 34"x34" OUTSIDE AIR LOUVER WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER.

c. INSTALL UF111A, EQUIPPED WITH AN AIR SIDE PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING UP THROUGH THE SW CORNER OF THE ELEVATOR LOBBY 205, THEN THROUGH THE ROOF.

d. INSTALL 30"x24" SA DUCT AND 30"x24" RA DUCT OUTSIDE OF THE BUILDING. SA AND RA DUCTS TO BE INSULATED WITH R8 INSULATION AND COVERED WITH A 24GA ALUMINUM JACKET. SEAL IN WALL PENETRATIONS WEATHER TIGHT. INSTALL 30"x24" SA REGISTER AND 30"x24" RA REGISTER.

e. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE EAST WALL OF MEETING 111, AT THE SE CORNER, CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

f. IINSTALL PHOTOELECTRIC SMOKE DETECTOR IN SUPPLY PLENUM.

g. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO THE NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

h. CUT 32"x32" GRAVITY RELIEF PENETRATION THROUGH CEILING AND ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

i. INSTALL ROOF MOUNTED GRAVITY RELIEF HOOD WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER. INSTALL 30"x30" GRAVITY RELIEF DUCT AND CEILING REGISTER.

3. FURNACE UF1SE SERVES CORR. 107, BAR 108, BAR 109.

a. CUT 19"x19" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL OUTSIDE AIR HOOD ABOVE THE ROOF AND 18"x18" OA DUCT DOWN TO THE RETURN PLENUM.

c. INSTALL 18"x18" RETURN PLENUM.

d. INSTALL UF1SE WITH PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH ROOF.

e. INSTALL SA DUCTS AND REGISTERS.

f. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE NORTH WALL AT THE NW CORNER. CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

g. CUT 19"x19" PENETRATION THROUGH ROOF. WORK TO BE DONE BY GENERAL CONTRACTOR.

h. INSTALL GRAVITY RELIEF HOOD WITH 19"x18" DUCT AND CEILING REGISTER.

4. NORTHEAST OUTSIDE AIR HOOD.

a. CUT 61"x25" PENETRATION THROUGH THE ROOF, ABOVE THE NE CORNER OF OFFICE 117. WORK TO BE DONE BY GENERAL CONTRACTOR.

b. INSTALL OUTSIDE AIR HOOD AND 60"x24" OA DUCT DOWN INTO THE NE ATTIC.

5. FURNACE UF1LOB SERVES THE MAIN LOBBY.

a. CUT 25"x13" RA PENETRATION ALIGNED WITH THE NORTH LOBBY WALL ABOVE THE WRR 116 DOOR. CUT 25"x13" SA PENETRATION ABOVE THE RA PENETRATION. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 14" OA DUCT FROM THE 60"x24" OA PLENUM TO THE PROPORTIONING ECONOMIZER.

c. INSTALL UF1LOB WITH PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH THE ROOF ADJACENT TO THE OA PLENUM. VENT TO BE EXTENDED MINIMUM 3 FEET ABOVE THE OA HOOD INLET.

d. INSTALL SA DUCT AND REGISTER. INSTALL RA DUCT AND REGISTER.

e. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE NORTH WALL OF THE LOBBY. CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

f. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

6. FURNACE UFMN SERVES MEETING 112

a. CUT THREE 25"x13" PENETRATIONS INTO THE FLOOR ABOVE. CUT ON 25"x25" PENETRATION INTO THE FLOOR ABOVE. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 14"x14" OA DUCT FROM THE 60"x24" OA PLENUM TO THE PROPORTIONING ECONOMIZER.

c. INSTALL UFMN WITH PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING THROUGH ROOF ADJACENT TO THE OA PLENUM. EXTEND VENT PIPING MINIMUM 3 FEET ABOVE THE OUTSIDE AIR INLET.

d. INSTALL SA DUCTS AND GYM GRADE FLOOR REGISTERS. INSTALL RA DUCT AND GYM GRADE FLOOR REGISER.

e. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE SOUTH WALL OF MEETING 112. CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

f. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

7. FURNACE UF111B SERVES THE NORTH END OF MEETING ROOM 111.

a. INSTALL 20"x20" OA DUCT FROM THE 60"x24" OA PLENUM TO THE PROPORTIONING ECONOMIZER. INSTALL FRAMING CHANNEL BRACING.

7. FURNACE UF111B (CONT)

b. INSTALL UF111B WITH PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING ADJACENT TO THE OA PLENUM. EXTEND THE VENT MINIMUM 3 FEET ABOVE THE OUTSIDE AIR INLET.

c. INSTALL SA DUCT AND REGISTER. INSTALL RA DUCT AND REGISTER.

d. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE EAST WALL OF MEETING 111, AT THE NE CORNER. CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

e. INSTALL PHOTOELECTRIC SMOKE DETECTOR IN THE SUPPLY PLENUM.

f. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

g. CUT 32"x32" GRAVITY RELIEF PENETRATION THROUGH CEILING AND ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

h. INSTALL ROOF MOUNTED CRAVITY RELIEF HOOD WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER. INSTALL 30"x30" GRAVITY RELIEF DUCT AND CEILING REGISTER.

8. FURNACE UF11NE SERVED MEETING ROOM 114 AND CORRIDOR 113.

a. INSTALL 16"x16" OA DUCT FROM THE 60"x24" OA PLENUM TO THE ECONOMIZER. INSTALL FRAMING CHANNEL BRACING.

b. INSTALL SA DUCTS AND REGISTERS. INSTALL RA DUCTS AND REGISTERS.

c. INSTALL UF1NE WITH PROPORTIONING ECONOMIZER. INSTALL COMBUSTION AIR AND VENT PIPING ADJACENT TO THE OA PLENUM. EXTEND VENT PIPING MINIUM 3 FEET ABOVE THE OUTSIDE AIR INLET.

d. CONTROLS TO INCLUDE WALL MOUNTED THERMOSTAT IN THE SOUTH WALL OF MEETING 114, AT THE SE CORNER. CARBON DIOXIDE CONTROL FOR THE ECONOMIZER WHEN IN THE HEATING MODE AND MIXED AIR TEMPERATURE CONTROL WHEN IN THE COOLING MODE.

e. INSTALL CALCIUM CARBONATE NEUTRALIZER AND CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. INSTALL CONDENSATE PUMP AS NEEDED.

f. CUT 22"x22" GRAVITY RELIEF PENETRATION THROUGH CEILING AND ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

g. INSTALL ROOF MOUNTED CRAVITY RELIEF HOOD WITH 4x4 MESH SCREEN AND COUNTER BALANCED BACK DRAFT DAMPER. INSTALL 30"x30" GRAVITY RELIEF DUCT AND CEILING REGISTER.

D. FIRE RATED GREASE DUCT SHAFT.

CONSTRUCT A 1 HR FIRE RATED GREASE DUCT SHAFT, 24"x24" INSIDE DIMENSION. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

E. MEZZANINE AND ROOF MECHANICAL SYSTEMS.

1. EXHAUST FAN EFKH SERVES THE RANGE HOOD.

a. CUT 18 1/2"x18 1/2" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 12" HIGH MANUFACTURED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH #12 SHEET METAL SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL EXHAUST FAN. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

2. EXHAUST FAN EFDW SERVES THE DISHWASHER HOOD.

a. CUT 14 1/2"x14 1/2" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 12" HIGH MANUFACTURED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH #12 SHEET METAL SCREWS (8).

2. EXHAUST FAN EFDW (CONT)

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL EXHAUST FAN. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

3. EXHAUST FAN EF105 SERVES MRR 105.

a. CUT 14 1/2"x14 1/2" PENE-TRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 12" HIGH MANU-FACTURED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH #12 SHEET METAL SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL EXHAUST FAN. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

3. RVHW SERVES THE ELEVATOR HOIST WAY.

a. CUT 24 1/2"x24 1/2" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

4. RG111A AND RG111B SERVES MEETING ROOM 111.

a. CUT 30 1/2"x30 1/2" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

5. RGBB SERVES THE BASEMENT BAR AREA.

a. CUT 25" FOUND PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

6. RS1SE PROVIDES VENTILATION AIR TO UF1SE.

a. CUT 19" FOUND PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

7. RG108 SERVES THE 1ST FLOOR BAR, FROM A 20" DUCT.

RG203 SERVES THE LOBBY, FROM A 10" DUCT.

RENE SERVES RR115 AND WRR116, FROM A 10" DUCT.

RESERR SERVES THE SOUTHEAST BASEMENT RESTROOMS FROM A 12" DUCT.

7. (CONT) RG114 SERVES MEETING 114 FROM A 16" DUCT.

a. CUT A ROUND ROOF PENETRAT-ION 1" LARGER IN DIAMETER THAN THE DUCT SIZE. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF OR EXHAUST HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8)

8. EF206 SERVES THE ELEVATOR EQUIPMENT ROOM.

a. CUT A 25"x25" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 12" HIGH MANU-FACTURED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH #12 SHEET METAL SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL EXHAUST FAN. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

9. RG112 PROVIDES GRAVITY RELIEF FOR MEETING 112.

a. CUT A 25"x25" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 12" HIGH MANU-FACTURED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH #12 SHEET METAL SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL GRAVITY RELIEF HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

10. RSNE PROVIDES VENTILATION AIR FOR UFMN, UF1LOB, UF111B AND UF1NE.

a. CUT A 61"x25" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL INTAKE HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

11. RS1NW PROVIDES VENTILATION AIR TO UF1NW.

a. CUT A 25"x25" PENETRATION THROUGH THE ROOF. WORK TO BE DONE BY THE GENERAL CONTRACTOR.

b. INSTALL 2x8 PRESSURE TREATED CURB. SET CURB IN ROOFING MASTIC. ATTACH TO ROOF DECK WITH 3/8"x10" LAG SCREWS (8).

c. INSTALL FLASHING. SEAL IN WEATHER TIGHT.

d. INSTALL INTAKE HOOD. ATTACH TO CURB WITH #12 SHEET METAL SCREWS (8).

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

COUNTY OF HUMBOLDT
IN THE REDWOODS

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

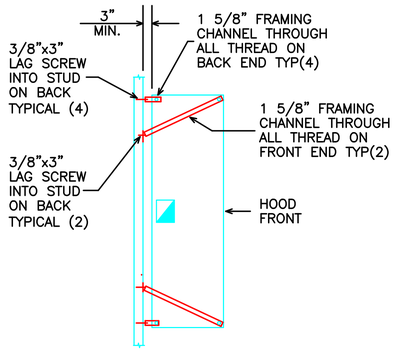
Sheet Title
SCOPE OF WORK

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn DHH | Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No.
M 1



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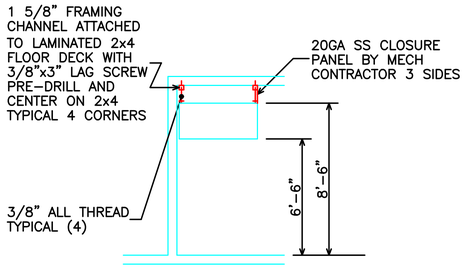

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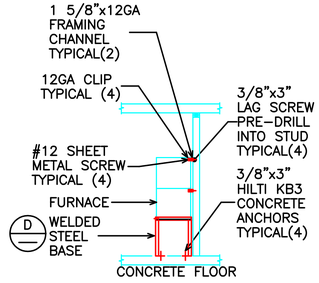

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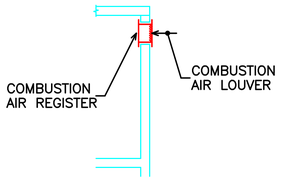

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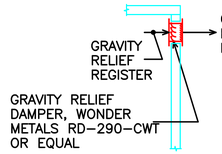

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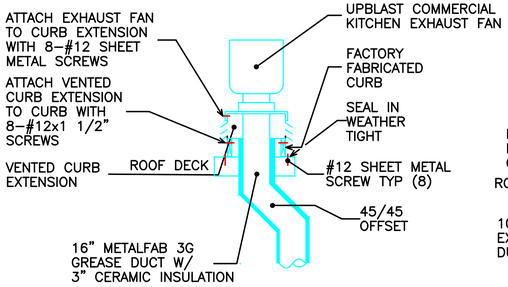
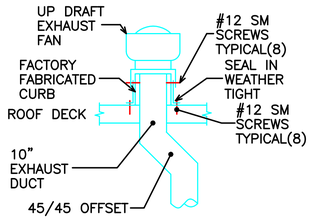
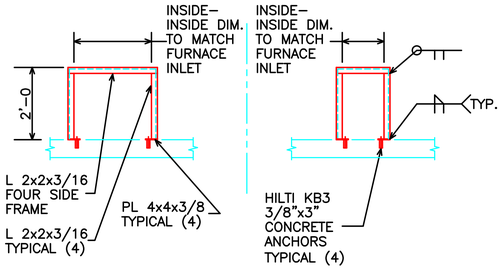


KITCHEN HOOD EXHAUST FAN DETAIL (L) NTS

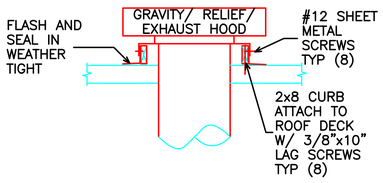


UP DRAFT EXHAUST FAN DETAIL (M) NTS



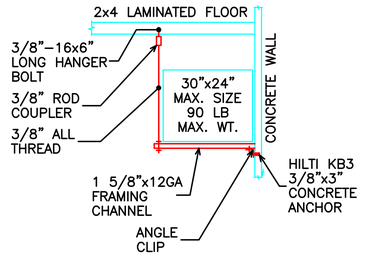
UP DRAFT FURNACE BASE (D) NTS

NOTE:
COMMERCIALLY AVAILABLE FURANCE BASE MAY BE SUBSTITUTED FOR DETAIL D.



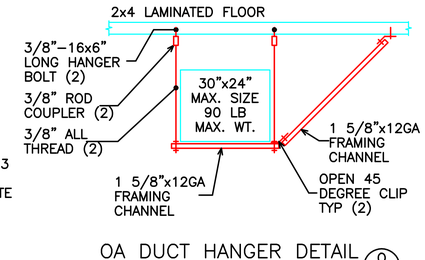
ROUND GRAVITY RELIEF/ EXHAUST HOOD (J) NTS

NOTES:
1. CURB TO BE #2 & BTR DF PRESSURE TREATED.
2. SET CURB IN ROOFING MASTIC



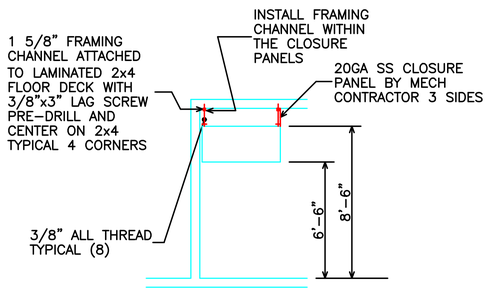
PLENUM AND OA DUCT HANGER DETAIL (N) NTS

NOTES:
1. DUCT MATERIAL 26GA GALVANIZED STEEL.
2. HANGER SPACING 10 FEET MAX.
3. ONE HANGER AT EACH 90 ELBOW.

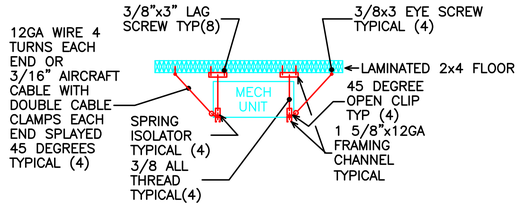


OA DUCT HANGER DETAIL (O) NTS

NOTES:
1. DUCT MATERIAL 26GA GALVANIZED STEEL.

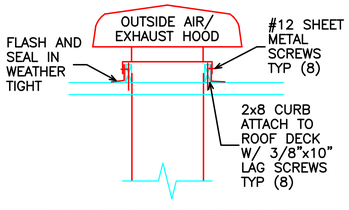


TYPE II DISHWASHER HOOD HANGER DETAIL (B) NTS



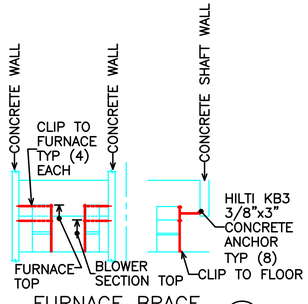
MECHANICAL UNIT SUPPORT DETAIL (WOOD FRAMED STRUCTURE) (E) NTS

NOTE:
INSTALL AIRCRAFT CABLE WITH THIMBLE AT EACH END



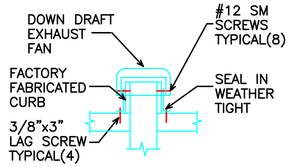
RECTANGULAR OUTSIDE AIR/EXHAUST HOOD (K) NTS

NOTES:
1. CURB TO BE #2 & BTR DF PRESSURE TREATED.
2. SET CURB IN ROOFING MASTIC

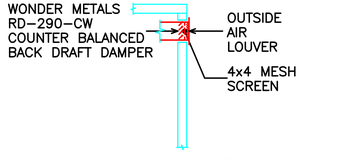


FURNACE BRACE (P) NOTE: SCALE 1/8" = 1'

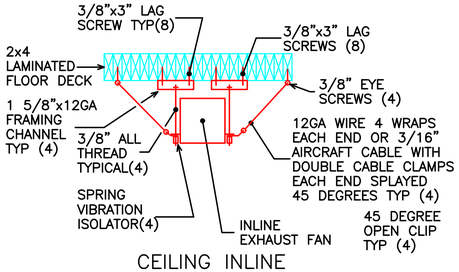
1 5/8"x12GA FRAMING CHANNEL BRACE MATERIAL



DOWN DRAFT EXHAUST FAN DETAIL (P) NTS



WALL MOUNTED OUTSIDE AIR INLET (F) NTS



CEILING INLINE SUPPLY FAN SUPPORT DETAIL (G) NTS

NOTE:
INSTALL AIRCRAFT CABLE WITH THIMBLE AT EACH END.

LEGEND

SUPPLY AIR	SA
RETURN AIR	RA
OUTSIDE AIR	OA
EXHAUST AIR	EA
GRAVITY RELIEF	GR
COMBUSTION AIR	CA
THERMOSTAT	T
CARBON DIOXIDE SENSOR	C
SMOKE DETECTOR	S
DAMPER ACTUATOR	M
LOGIC CONTROLLER	L

REGISTERED PROFESSIONAL ENGINEER — DUANE H. HEBER — No. 15063 Exp. 12/31/17 — MECHANICAL — STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

MECHANICAL DETAILES AND LEGEND

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

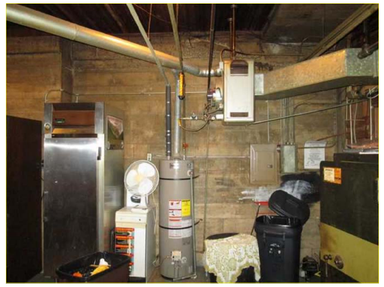
Drawn: DHH | Reviewed:
Date: 11/10/16
Scale: 1/8" = 1'
Sheet No.: M 2

REMOVE SPACE HEATING BOILER IMAGE 022 (A)

REMOVE BOILER VENT AND SPACE HEATING WATER PIPING. IMAGE 023 (B)

REMOVE EXISTING RANGE HOOD IMAGE 020 (C)

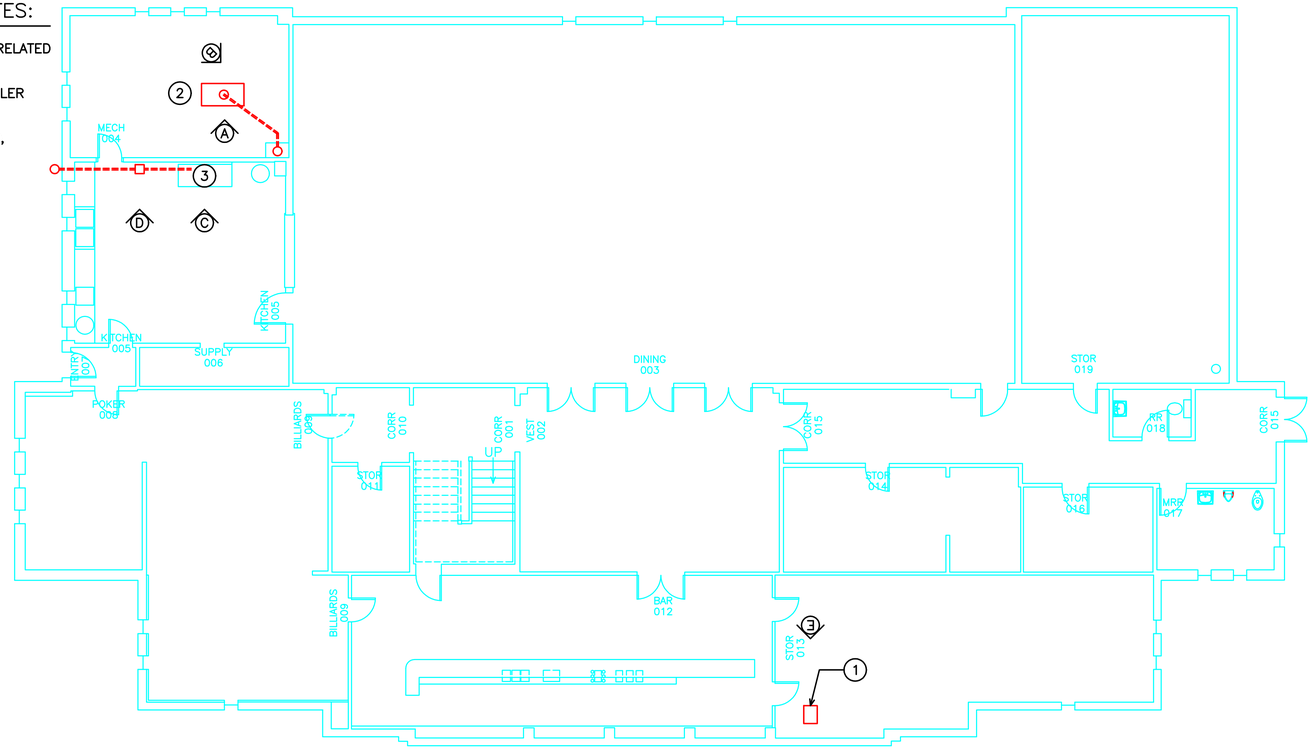
REMOVE EXISTING RANGE HOOD EXHAUST FAN AND DUCT THROUGH WALL AND ABOVE ROOF. IMAGE 019 (D)



REMOVE DUCT FURNACE, SUPPLY DUCT AND VENT IMAGE 039 (E)

MECHANICAL DEMOLITION NOTES:

1. REMOVE EXISTING UNIT HEATER AND RELATED DUCTWORK AND VENT.
2. REMOVE EXISTING SPACE HEATING BOILER AND, RELATED PIPING AND VENT.
3. REMOVE EXISTING KITCHEN HOOD AND, RELATED EXHAUST DUCT AND FAN



BASEMENT MECHANICAL DEMOLITION PLAN

SCALE 1/8" = 1'

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
BASEMENT MECHANICAL DEMOLITION PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
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No.	Date	Appr	Revision Notes

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Date 11/10/16
Scale 1/8" = 1'
Sheet No.
M 3

REMOVE HOT WATER RADIATORS SEE BUBBLE NOTE 6. IMAGE 054 (A)

REMOVE HOT WATER FAN COILS SEE BUBBLE NOTE 7 IMAGE 052 (B)

REMOVE STUDS DOWN TO TOP OF CEILING JOISTS. REMOVE PLATE. (TO PROVIDE DUCT ACCESS) IMAGE 071 (C)

NORTH ATTIC – LOOKING NORTHEAST FOR REFERENCE ONLY IMAGE 078 (D)

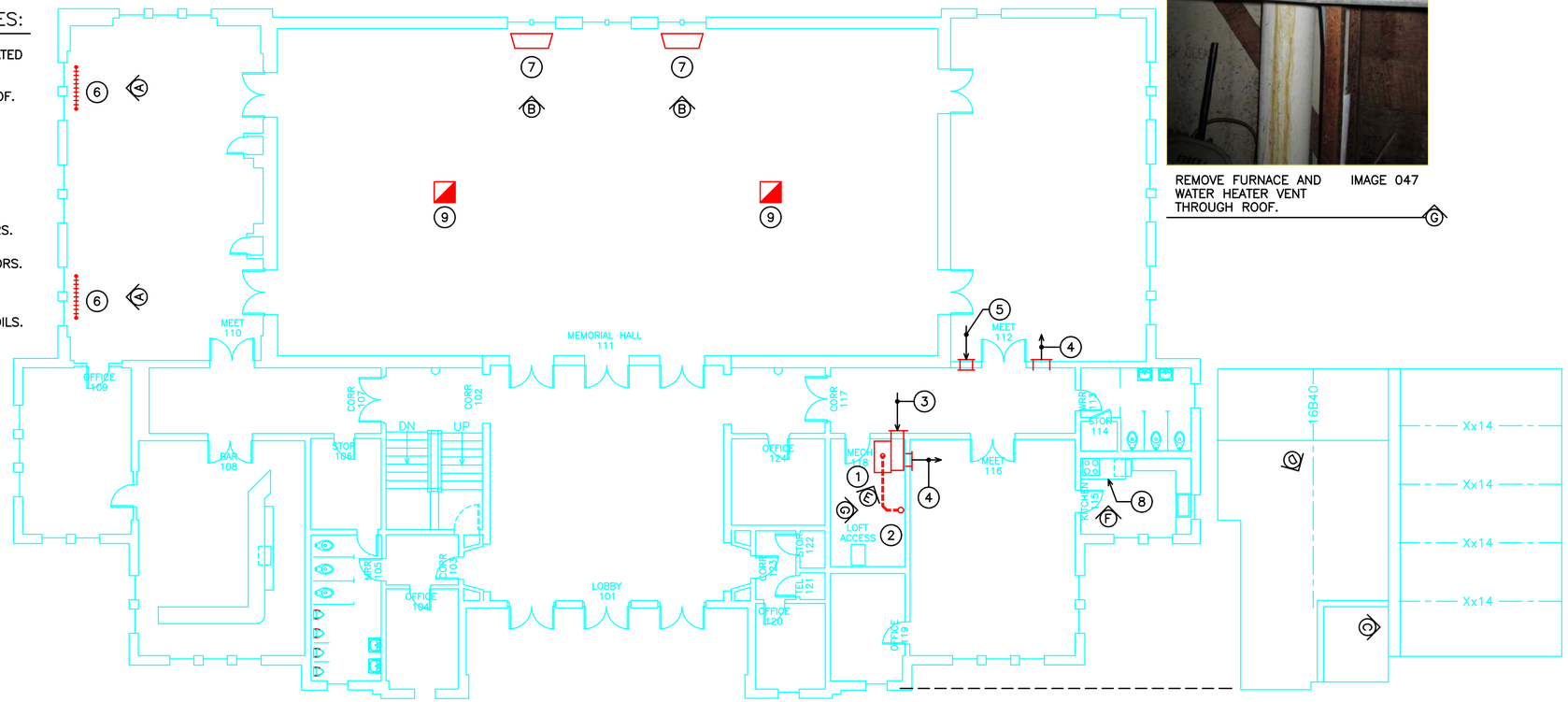
REMOVE FURNACE, DUCT WORK, REGISTERS AND VENT IMAGE 045 (E)

REMOVE RANGE HOOD AND VENT THROUGH ROOF IMAGE 050 (F)

REMOVE FURNACE AND WATER HEATER VENT THROUGH ROOF. IMAGE 047 (G)

1ST FLOOR DEMOLITION NOTES:

1. REMOVE EXISTING FURNACE AND RELATED DUCTWORK AND VENT CONNECTOR.
2. REMOVE EXISTING VENT THROUGH ROOF. REMOVE VENT UP FROM BASEMENT, INCLUDING CONNECTOR TO BASEMENT WATER HEATER.
3. REMOVE EXISTING CORRIDOR RETURN.
4. REMOVE EXISTING SUPPLY REGISTER.
5. REMOVE EXISTING TRANSFER REGISTERS.
6. REMOVE EXISTING HOT WATER RADIATORS. CUT EXISTING SUPPLY AND RETURN PIPING FLUSH WITH THE FLOOR.
7. REMOVE EXISTING HOT WATER FAN COILS. CUT EXISTING SUPPLY AND RETURN PIPING IN BASEMENT CEILING. MAINTAIN OUTSIDE AIR INLETS FOR USE AS GRAVITY RELIEF VENTS.
8. REMOVE EXISTING TYPE 2 KITCHEN HOOD. REMOVE VENT THROUGH ROOF AND EXHAUST FAN.
9. REMOVE EXISTING GRAVITY RELIEF REGISTER, DUCT THROUGH ROOF AND HOOD. TO BE REPLACED.



1ST FLOOR MECHANICAL DEMOLITION PLAN
SCALE 1/8" = 1'

NORTH INTERSTATIAL
SCALE 1/8" = 1'

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
1ST FLOOR MECHANICAL DEMOLITION PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

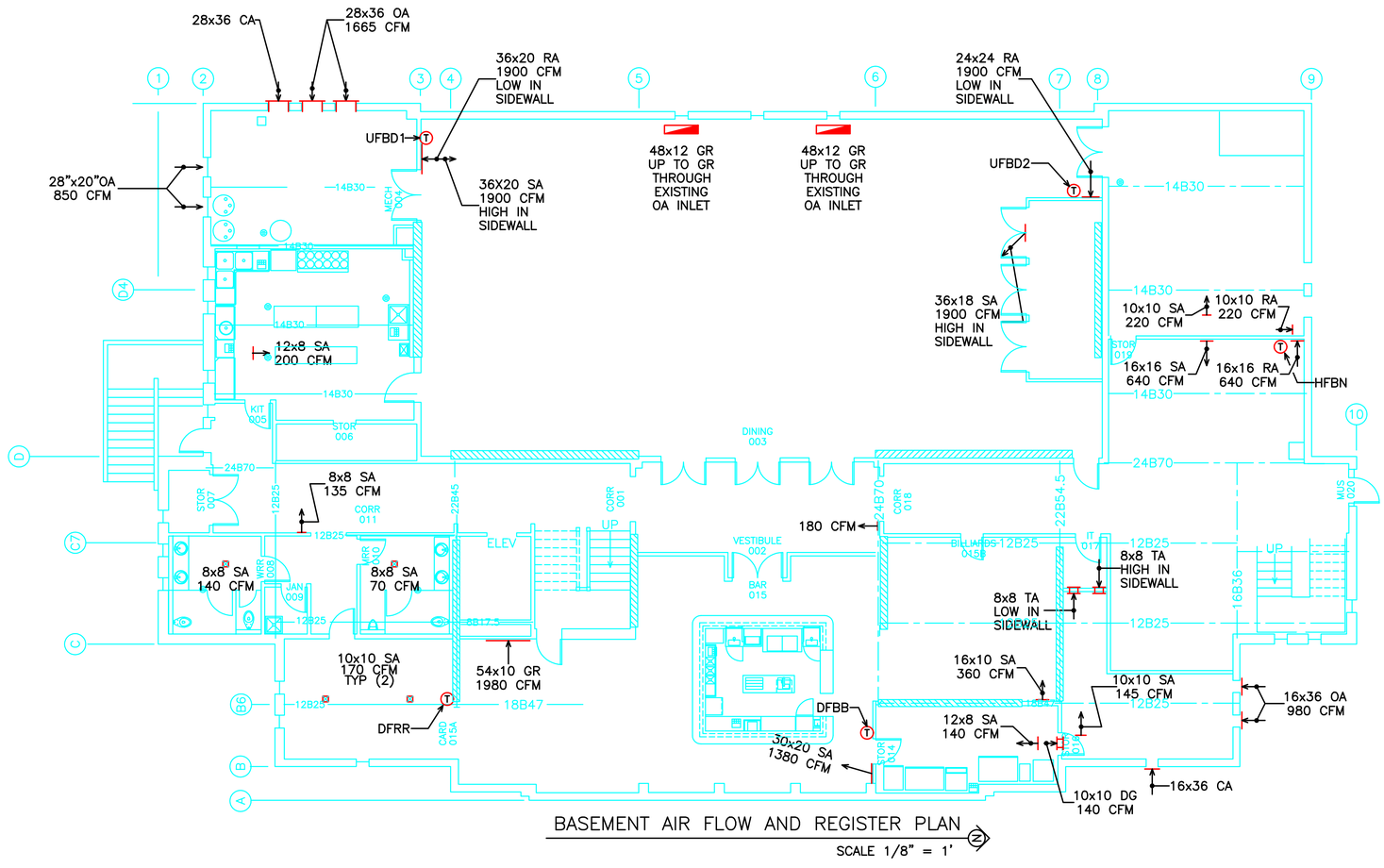
Drawn DHH Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No.
M 4

MECHANICAL LOAD AND AIR FLOW SUMMARY

ZONE/ ROOM	COOL BTUH	HEAT BTUH	SA CFM	RA CFM	VA CFM	TA CFM	EA CFM	OA CFM	VA %
DIN 003	75540	201400	3800	380	3420			3420	
	75540	201400	3800	380	3420			3420	90
UFBD1	37770	100700	1900	190	1710			1710	
UFBD2	37770	100700	1900	190	1710			1710	
BAR 015	24485	74322	1380		1380			1380	
BILL 015B	8243	19223	360		360			360	
STOR 014	1287	3602	70		70			70	
MECH 016	1511	3670	70		70			70	
IT 017	1207	862	75		75	75		75	
DFBB	36733	101679	1955		1955	75		1955	100

MECHANICAL LOAD AND AIR FLOW SUMMARY

ZONE/ ROOM	COOL BTUH	HEAT BTUH	SA CFM	RA CFM	VA CFM	TA CFM	EA CFM	OA CFM	VA %
VEST 002	3287	8638	160	10	150			150	
CORR 018	1025	2194	40	5	35			35	
STOR 019	2550	11864	220	120	100			100	
MUS 020	9359	23696	440	140	300			300	
HFBN	16221	46492	860	275	585			585	68
CORR 001	3197	7352	135	35	100			100	
WRR 008		7880	140				140	140	
MRR 010		4034	70				70	70	
CARD 015A	6675	18129	335	95	240			240	
DFRR	9872	37395	680	130	340		210	550	50



BASEMENT AIR FLOW AND REGISTER PLAN

SCALE 1/8" = 1'

CONTROL SCHEDULE

SCHEDULE RELATES TO FURNACE UNITS EQUIPPED WITH PROPORTIONING ECONOMIZERS.

- (T) HONEYWELL TB8220 2 STAGE HEAT SINGLE STAGE AIR CONDITION THERMOSTAT WITH BATTERY BACKUP.
- (MS) HONEYWELL C7150B MIXED AIR SENSOR.
- (C) HONEYWELL C7232B DUCT MOUNTED CO2 SENSOR.
- (L) HONEYWELL W7212 LOGIC PANEL.

  HONEYWELL MS7505A SPRING RETURN ACTUATOR.
- (2) NOTIFIER FSD-751PL PHOTOELECTRIC DUCT SMOKE DETECTOR.

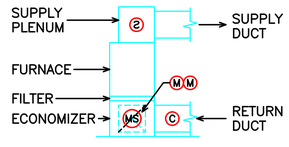
CONTROL FUNCTIONS

CONTROL FUNCTIONS RELATE TO FURNACE UNITS EQUIPPED WITH PROPORTIONING ECONOMIZERS.

DEVICE	FUNCTION
(T)	CONTROLS SPACE TEMPERATURE THROUGH 2 STAGE HEATING AND 1 STAGE VENTILATION COOLING FAN RUNS CONTINUOUS DURING OCCUPIED PERIODS. SET HEATING AT 70 F AND MIXED AIR AT 72 F.
(MS)	MIXED AIR SENSOR CONTROLS TEMPERATURE IN ECONOMIZER MODE. SET ECONOMIZER COOLING AT 72 F.
(C)	CO2 CONTROLS VENTILATION RATE WHEN IN HEATING MODE.
(L)(M)(M)	CONTROLS OUTSIDE AND RETURN AIR DAMPERS. CONFIGURE TO CLOSE OUTSIDE AIR DAMPER AND OPEN RETURN AIR DAMPER ON POWER FAILURE.
(2)	SHUTS DOWN FURNACE BLOWER WHEN SMOKE IS DETECTED.

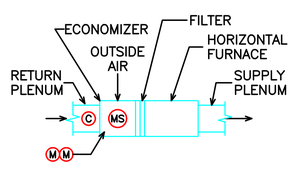
DFBB CONTROL

DUCT FURNACE DFBB IS TO BE OPERATED WITH 100% OUTSIDE AIR, MODINE METHOD C. PROVIDE HONEYWELL TB7980 WALL MOUNTED PROPORTIONING THERMOSTAT, AND HONEYWELL ST6008C1004 WALL MOUNTED 7 DAY TIMER. MOUNT TIMER ADJACENT TO DFBB.



UP DRAFT FURNACE CONTROL LOCATIONS

NOTES:
1. TYPICAL OF UF1SW, UFBD1 AND UF BD2
2. SMOKE DETECTOR IS OMITTED FOR UF1SW
3. SEE SHEET M 8 FOR FURNACE LOCATIONS



HORIZONTAL FURNACE CONTROL LOCATIONS

NOTES:
1. TYPICAL OF HFBN
2. SEE SHEET M 8 FOR FURNACE LOCATIONS

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title: BASEMENT MECHANICAL AIR FLOW AND REGISTER AND CONTROL PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT - 1018 H ST., I EUREKA, CA | 95501 APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

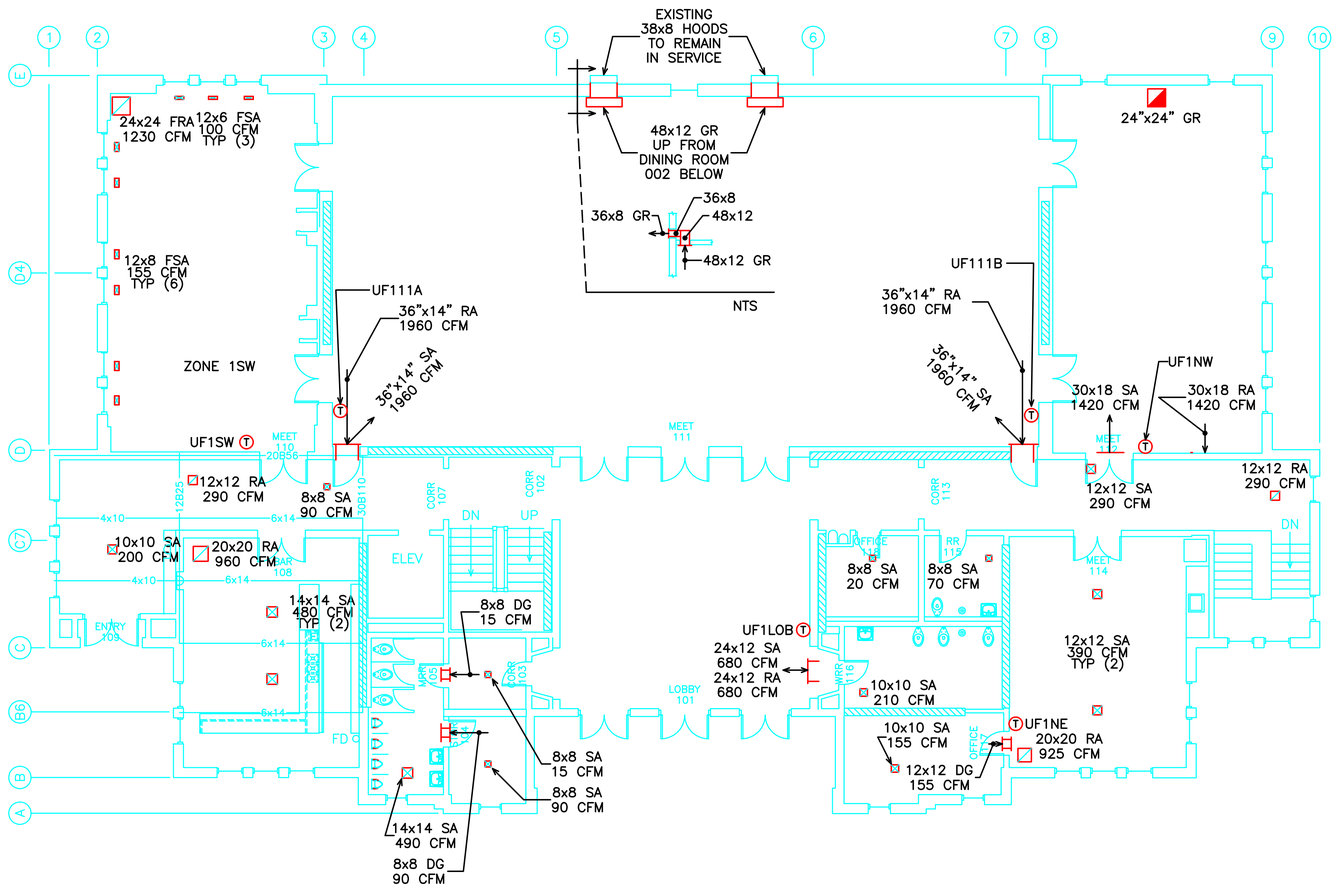
Drawn: DHH | Reviewed:
Date: 11/10/16
Scale: 1/8" = 1'
Sheet No.: M 5

MECHANICAL LOAD AND AIR FLOW SUMMARY

ZONE/ ROOM	COOL BTUH	HEAT BTUH	SA CFM	RA CFM	VA CFM	EA CFM	OA CFM	VA %
MEET 110	34767	66269	1230	315	915		915	
KIT 005	5729	10546	200			200	200	
UF1SW	40496	76815	1430	315	915	200	1115	
MEET 111	89580	211510	3920	830	3090		3090	
TOTAL	89580	211510	3920	830	3090		3090	
UF111A	44790	105755	1960	415	1545		1545	
UF111B	44790	105755	1960	415	1545		1545	
MEET 112	32314	76471	1420	460	960		960	
CORR 113	7984	15654	290	215	75		75	
UF1NW	40298	92125	1710	675	1035		1035	
MEET 114	17958	41542	770	230	540		540	
OFFICE 117	4385	8354	155	125	30		30	
WRR 116		11550	210			210	210	
UF1NE	23113	61446	1135	355	570	210	780	

MECHANICAL LOAD AND AIR FLOW SUMMARY

ZONE/ ROOM	COOL BTUH	HEAT BTUH	SA CFM	RA CFM	VA CFM	EA CFM	OA CFM	VA %
LOBBY 101	12316	36705	680	80	600		600	
UF1LOB	12316	36705	680	80	600		600	
CORR 103	512	825	15		15		15	
STOR 104	2328	4830	90	75	15		15	
MRR 105		26950	490			490	490	
DFRR	2840	32605	595	75	30	490	520	
BAR 108	22945	51848	960	195	765		765	
ENTRY 109	9897	15676	290	215	75		75	
HF1SE	32842	67524	1250	410	840		840	
RR 115		3850	70			70	70	
OFFICE 118	770	1100	20		20		20	
MEET 204	16761	47033	870	300	570		570	
UFMN	17531	51983	960	300	590	70	660	



1ST FLOOR AIR FLOW AND REGISTER PLAN

SCALE 1/8" = 1'

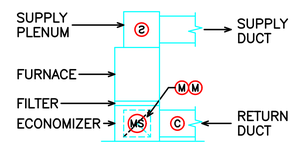
CONTROL SCHEDULE

- (T) HONEYWELL TB8220 2 STAGE HEAT SINGLE STAGE AIR CONDITION THERMOSTAT WITH BATTERY BACKUP.
- (MS) HONEYWELL C7150B MIXED AIR SENSOR.
- (C) HONEYWELL C7232B DUCT MOUNTED CO2 SENSOR.
- (L) HONEYWELL W7212 LOGIC PANEL.

  HONEYWELL MS7505A SPRING RETURN ACTUATOR.
- (2) NOTIFIER FSD-751PL PHOTOELECTRIC DUCT SMOKE DETECTOR.

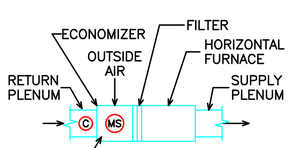
CONTROL FUNCTIONS

DEVICE	FUNCTION
(T)	CONTROLS SPACE TEMPERATURE THROUGH 2 STAGE HEATING AND 1 STAGE VENTILATION COOLING FAN RUNS CONTINUOUS DURING OCCUPIED PERIODS. SET HEATING AT 70 F AND MIXED AIR AT 72 F.
(MS)	MIXED AIR SENSOR CONTROLS TEMPERATURE IN ECONOMIZER MODE. SET ECONOMIZER COOLING AT 72 F.
(C)	CO2 CONTROLS VENTILATION RATE WHEN IN HEATING MODE.
(L)(M)(M)	CONTROLS OUTSIDE AND RETURN AIR DAMPERS. CONFIGURE TO CLOSE OUTSIDE AIR DAMPER AND OPEN RETURN AIR DAMPER ON POWER FAILURE.
(2)	SHUTS DOWN FURNACE BLOWER WHEN SMOKE IS DETECTED.



UP DRAFT FURNACE CONTROL LOCATIONS

NOTES:
1. TYPICAL OF UF111A,
2. SEE SHEET M 9 FOR FURNACE LOCATIONS



HORIZONTAL FURNACE CONTROL LOCATIONS

NOTES:
1. TYPICAL OF HF1SE
2. SEE SHEET M 9 FOR FURNACE LOCATIONS

REGISTERED PROFESSIONAL ENGINEER
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MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title: 1ST FLOOR AIR FLOW AND REGISTER PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

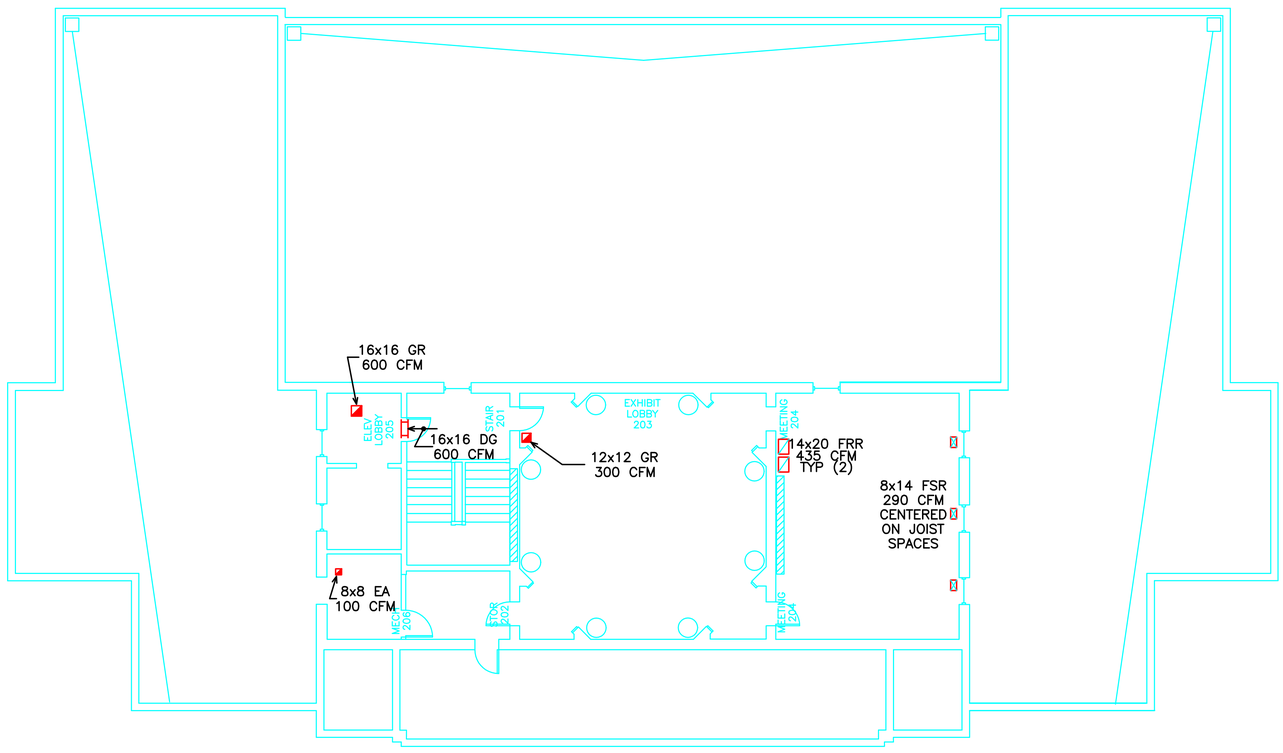
Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: DHH | Reviewed:
Date: 11/10/16
Scale: 1/8" = 1'
Sheet No: M 6

MECHANICAL LOAD AND AIR FLOW SUMMARY

ZONE/ ROOM	COOL BTUH	HEAT BTUH	SA CFM	RA CFM	VA CFM	EA CFM	OA CFM	VA %
MEET 204	16761	47033	870	300	570		570	
UFMN	16761	47033	870	300	570		570	



MEZZANINE AIR FLOW AND REGISTER PLAN

SCALE 1/8" = 1'

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title: MEZZANINE AIR FLOW AND REGISTER PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT - 1018 H ST. | EUREKA, CA | 95501 APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: DHH | Reviewed:

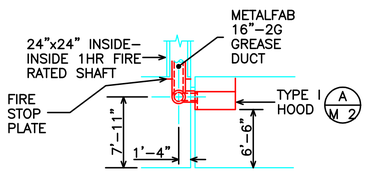
Date: 11/10/16

Scale: 1/8" = 1'

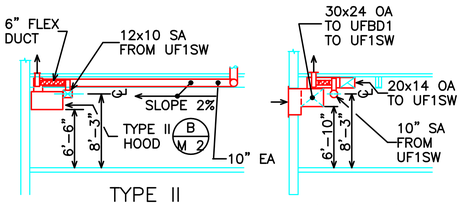
Sheet No.: M 7

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

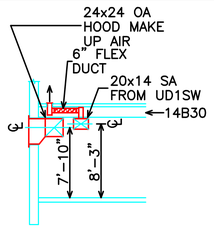


TYPE I
KITCHEN HOOD
A
SCALE 1/8" = 1'

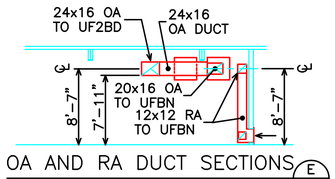


TYPE II
DISHWASHER HOOD
B
SCALE 1/8" = 1'

DUCT SECTIONS
C
SCALE 1/8" = 1'



DUCT SECTIONS
D
SCALE 1/8" = 1'



OA AND RA DUCT SECTIONS
E
SCALE 1/8" = 1'

BASEMENT MECHANICAL EQUIPMENT SCHEDULE

HFBN HORIZONTAL NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 60/39 MBH, OUTPUT 58/38 MBH, AIR FLOW 490/960/785/1145/1440 CFM AT 0.6"S.P.,120V–60HZ–1PH 3/4 HP, 9.2 FLA, MOCP 15 AMPS. WT. 146 LB. BRYANT 925TA42060E17A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

UFBB UPDRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 100/65 MBH, OUTPUT 97/63 MBH, AIR FLOW 1045/1300/1500/1705/2030 CFM AT 0.6"S.P. 120V–60HZ–1PH 1 HP, 11.8 FLA, MOCP 20 AMPS. WT. 171 LB. BRYANT 925TA60100E21A OR EQUAL.

UFBD1 UPDRAFT NATURAL GAS FIRED FURNACE, AFUE 96%,
UFBD2 HEATING CAPACITY; INPUT 120/78 MBH, OUTPUT 117/76 MBH, AIR FLOW 1325/1165/1900/1600/1950 CFM AT 0.6"S.P. 120V–60HZ–1PH 1 HP, 11.8 FLA, MOCP 20 AMPS. WT. 195 LB. BRYANT 925TA66120E24A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

UF1SW UPDRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 80/52 MBH, OUTPUT 78/50 MBH, AIR FLOW 885/975/1200/1370/1540 CFM AT 0.6"S.P. 120V–60HZ–1PH 3/4 HP, 9.2 FLA, MOCP 15 AMPS. WT. 156 LB. BRYANT 925TA48080E17A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

EF009 GREENHECK SP B70 CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER. AIR FLOW 50 CFM AT 0.375"S.P. 120V–60HZ–1PH, 0.53 FLA, 45 WATTS, WT. 5 LB. LIGHT SWITCH CONTROL.

EF008 GREENHECK SP–A190 CEILING MOUNTED EXHAUST FAN
EF010 WITH BACK DRAFT DAMPER AND EXHAUST REGISTER, AIR FLOW CAPACITY 150 CFM AT 0.25"S.P., NOISE LEVEL 2.5 SONES, 120V–60HZ–1PH, 1.30 FLA, 113 WATTS, WT. 17 LB. LIGHT SWITCH CONTROL.

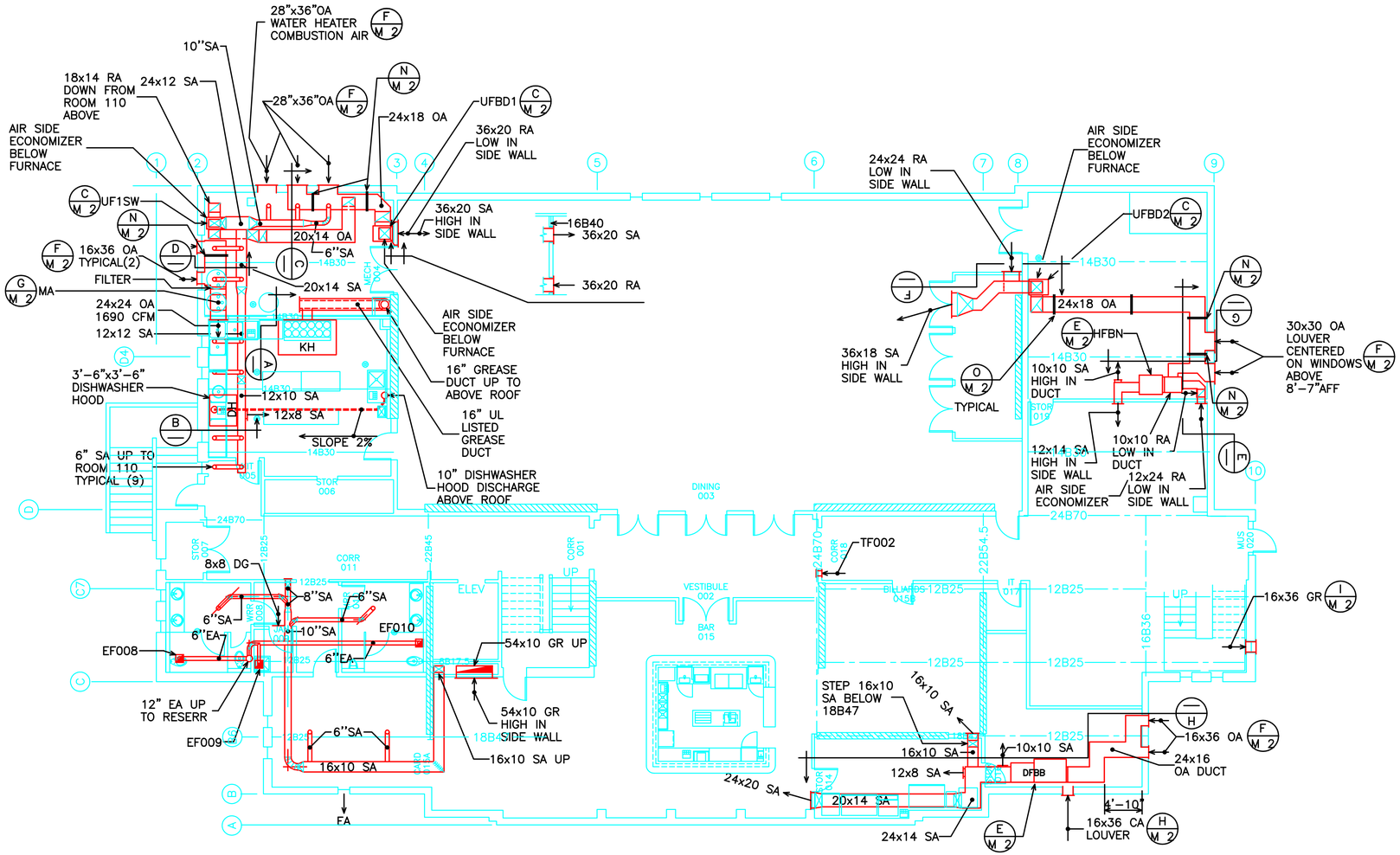
TF002 BROAN 509 THROUGH WALL TRANSFER FAN, 180 CFM, 120V–60HZ–1PH, 1.5 FLA. INTERLOCK TO START/STOP WITH UFBN BLOWER. MOUNT HIGH IN SIDE WALL.

DFBB MODINE DBS–150 NATURAL GAS FIRED FURNACE/ BLOWER SYSTEM. 150,000 BTUH INPUT/125,000 BTUH OUTPUT, AIR FLOW 1,955 CFM AT 0.75" TOTAL STATIC PRESSURE, COMPLETE WITH 409 STAINLESS STEEL HEAT EXCHANGER, BURNER ASSEMBLY AND DRAIN PAN. PROVIDE WITH TYPE 4 ELECTRONIC MODULATION, WITH WALL MOUNTED MODULATING THERMOSTAT. 208V–60HZ–3PH 1 1/2 HP, WT. 441 LB.

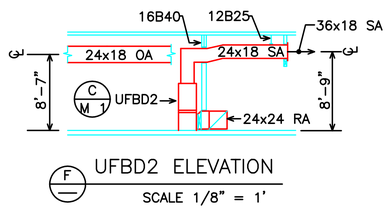
KH GREENHECK GHEW 90"x48" BAFFLE FILTER, SINGLE WALL, EXHAUST ONLY WALL CANOPY HOOD. AIR FLOW 1688 CFM AT 1.42"S.P., COMPLETE WITH EXPOSION PROOF LIGHTS, WET CHEMICAL FIRE PROTECTION SYSTEM AND STAINLESS STEEL BACK SPLASH PANEL. BACK SPLASH PANEL TO EXTEND FULL RANGE WIDTH x BOTTOM OF HOOD TO FLOOR. WT. 268 LB. 16"x10" BACK CONNECTED EXHAUST COLLAR

DH GREENHECK GD2 42"x42" HEAT AND CONDENSATE HOOD, AIR FLOW 525 CFM AT 0.29"S.P., WT. 168 LB. 13"x11" TOP CONNECTED EXHAUST COLLAR.

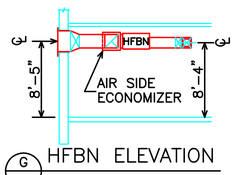
MA GREENHECK INLINE CENTRIFUGAL FAN BSQ–160–7A, 2000 CFM AT 0.75"S.P. 208V–60HZ–3PH, 3/4 HP. INTERLOCK TO START WITH KH EXHAUST FAN. PROVIDE WITH FILTER BOX AND MERV8 FILTER. WT. 208 LB.



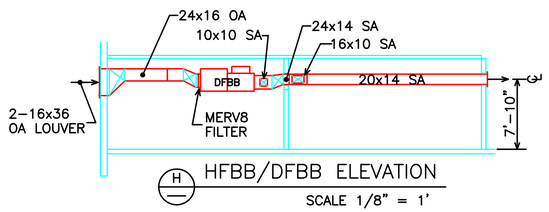
BASEMENT MECHANICAL PLAN
SCALE 1/8" = 1'



F UFBD2 ELEVATION
SCALE 1/8" = 1'



G HFBN ELEVATION
SCALE 1/8" = 1'



H HFBB/DFBB ELEVATION
SCALE 1/8" = 1'

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
BASEMENT
MECHANICAL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
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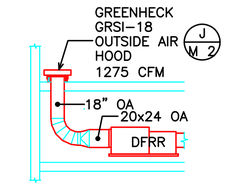
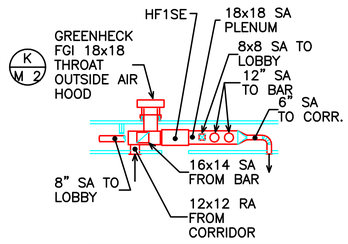
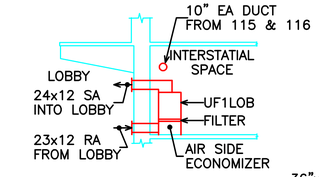
M 8



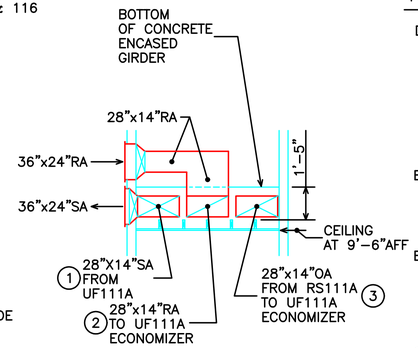
A DFRR ELEVATION
SCALE 1/8" = 1'



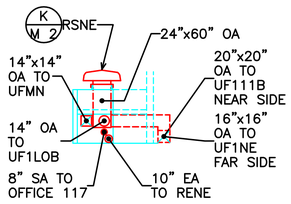
C HF1SE ELEVATION
SCALE 1/8" = 1'



D UF1LOB ELEVATION
SCALE 1/8" = 1'



I UF111A DUCT SECTION
SCALE 1/4" = 1'



DUCT SECTION E
SCALE 1/8" = 1'

1ST FLOOR MECHANICAL EQUIPMENT SCHEDULE

DFRR MODINE DBS-125 NATURAL GAS FIRED FURNACE/ BLOWER SYSTEM. 125,000 BTUH INPUT/100,000 BTUH OUTPUT, AIR FLOW 1,275 CFM AT 0.75" TOTAL STATIC PRESSURE, COMPLETE WITH 409 STAINLESS STEEL HEAT EXCHANGER, BURNER ASSEMBLY AND DRAIN PAN. PROVIDE WITH TYPE 4 ELECTRONIC MODULATION, WITH WALL MOUNTED MODULATING THERMOSTAT. 208V-60HZ-3PH 1 HP, WT. 441 LB.

EF115 GREENHECK SP B110 CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER. AIR FLOW 80 CFM AT 0.375"S.P. 120V-60HZ-1PH, 1.14 FLA, 80 WATTS, WT. 11 LB. LIGHT SWITCH CONTROL.

EF116 GREENHECK SP-A250 CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER AND EXHAUST REGISTER, AIR FLOW CAPACITY 210 CFM AT 0.375"S.P., NOISE LEVEL 3.5 SONES, 120V-60HZ-1PH, 0.77 FLA, 83 WATTS, WT. 24 LB. WALL SWITCH CONTROL.

CF1 CF2 CF3 CF4 LEADING EDGE # 3620-1 CEILING FAN, MAX. AIR FLOW 12,500 CFM, 120V-60HZ-1PH, 0.65 FLA, WT. 20 LB. PROVIDE WITH 12006 SPEED CONTROL TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. SPEED CONTROLLER TO BE WALL MOUNTED ADJACENT TO LIGHT SWITCHES.

UF1LOB UFDRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 40/26 MBH, OUTPUT 39/25 MBH, AIR FLOW 330/420/495/710/875 CFM AT 0.6"S.P., 120V-60HZ-1PH 1/2 HP, 7.5 FLA, MOCP 15 AMPS, WT 125 LB. BRYANT 925TA30040E14A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

HF1NW HORIZONTAL NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 120/78 MBH, OUTPUT 117/76 MBH, AIR FLOW 1325/1165/1900/1600/1950 CFM AT 0.6"S.P. 120V-60HZ-1PH 1 HP, 11.8 FLA, MOCP 20 AMPS. WT. 195 LB. BRYANT 925TA66120E24A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

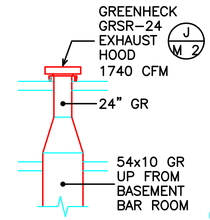
UF1NE UP DRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 60/39 MBH, OUTPUT 58/38 MBH, AIR FLOW 490/960/785/1145/1440 CFM AT 0.6"S.P.,120V-60HZ-1PH 3/4 HP, 9.2 FLA, MOCP 15 AMPS. WT. 146 LB. BRYANT 925TA42060E17A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

UF111A UPDRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 120/78 MBH, OUTPUT 117/76 MBH, AIR FLOW 1325/1165/1900/1600/1950 CFM AT 0.6"S.P. 120V-60HZ-1PH 1 HP, 11.8 FLA, MOCP 20 AMPS. WT. 195 LB. BRYANT 925TA66120E24A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

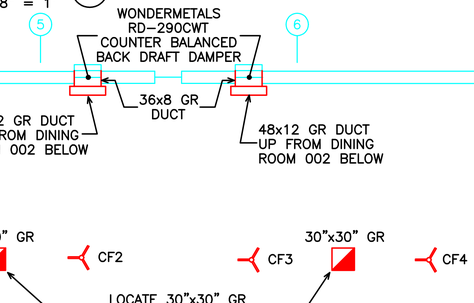
UF111B UP DRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 120/78 MBH, OUTPUT 117/76 MBH, AIR FLOW 1325/1165/1900/1600/1950 CFM AT 0.6"S.P. 120V-60HZ-1PH 1 HP, 11.8 FLA, MOCP 20 AMPS. WT. 195 LB. BRYANT 925TA66120E24A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

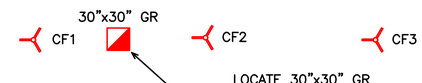
HF1SE HORIZONTAL NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 80/52 MBH, OUTPUT 78/51 MBH, AIR FLOW 750/1335/1140/1600/1930 CFM AT 0.6"S.P. 120V-60HZ-1PH 1 HP, 11.7 FLA, MOCP 20 AMPS. WT. 161 LB. BRYANT 925TA60080E21A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.

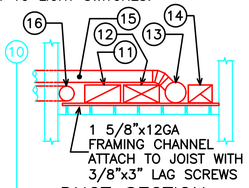
UFMN DOWN DRAFT NATURAL GAS FIRED FURNACE, AFUE 96%, HEATING CAPACITY; INPUT 80/52 MBH, OUTPUT 78/50 MBH, AIR FLOW 885/975/1200/1370/1540 CFM AT 0.6"S.P. 120V-60HZ-1PH 3/4 HP, 9.2 FLA, MOCP 15 AMPS. WT. 156 LB. BRYANT 925TA48080E17A OR EQUAL. PROVIDE WITH PROPORTIONING ECONOMIZER.



GRAVITY RELIEF
DUCT ELEVATION B
SCALE 1/8" = 1'



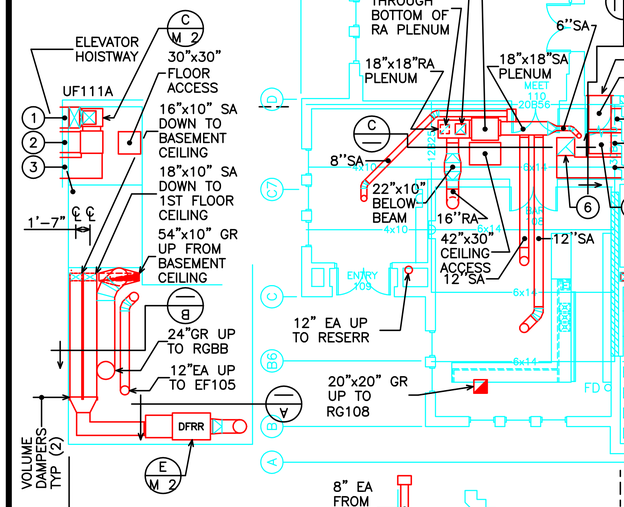


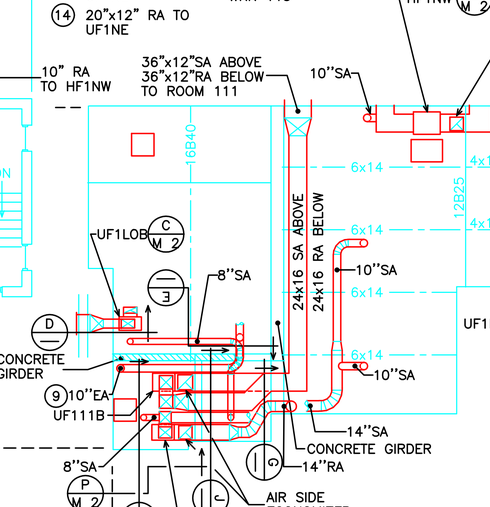


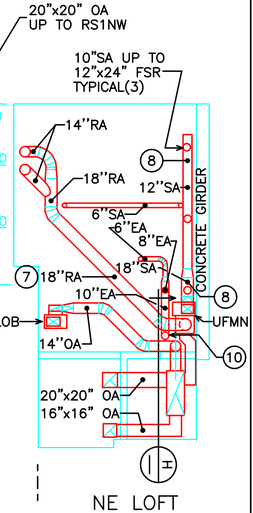
DUCT SECTION J
SCALE 1/4" = 1'

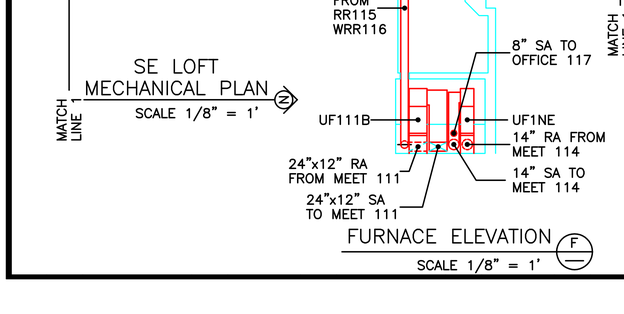
NOTES:

11 24"x16" RA TO UF111B
12 24"x16" SA FROM UF111B
13 16" SA FROM UF1NE
14 20"x12" RA TO UF1NE
15 8" SA TO WRR 116
16 10" EA FROM RR 115 WRR 115









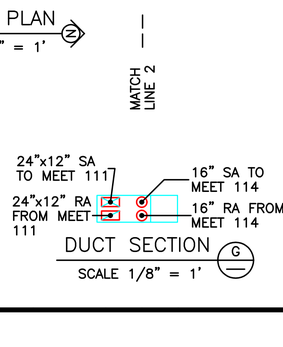
SE LOFT
MECHANICAL PLAN Z
SCALE 1/8" = 1'

FURNACE ELEVATION F
SCALE 1/8" = 1'

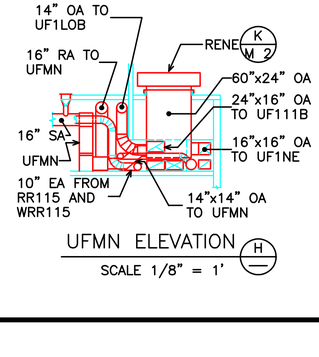
1ST FLOOR MECHANICAL PLAN Z
SCALE 1/8" = 1'

NOTE:

1 36"x12" SA FROM UF111A
2 36"x12" RA TO UF111A ECONOMIZER.
3 36"x12" OA TO UF111A ECONOMIZER.
4 36"x14" SA TO RM 111A.
5 36"x12" RA STEP UP TO 36"x12" RA, OVER 36"x12" SA, FROM RM 111A.
6 24"x24" OA DOWN FROM RS111A.



DUCT SECTION G
SCALE 1/8" = 1'



UFMN ELEVATION H
SCALE 1/8" = 1'

NE LOFT
MECHANICAL PLAN Z
SCALE 1/8" = 1'

NOTES:

7 18" RA ROUTED ALONG CEILING.
8 12" & 18" SA ROUTED ALONG CEILING
9 10" EA UP TO RENE.
10 10" EA FROM RR115 AND WRR116, CONNECTS TO RENE.

NE LOFT
MECHANICAL
CEILING PLAN Z
SCALE 1/8" = 1'

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
Exp. 12/31/17
MECHANICAL
STATE OF CALIFORNIA

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
1ST FLOOR
MECHANICAL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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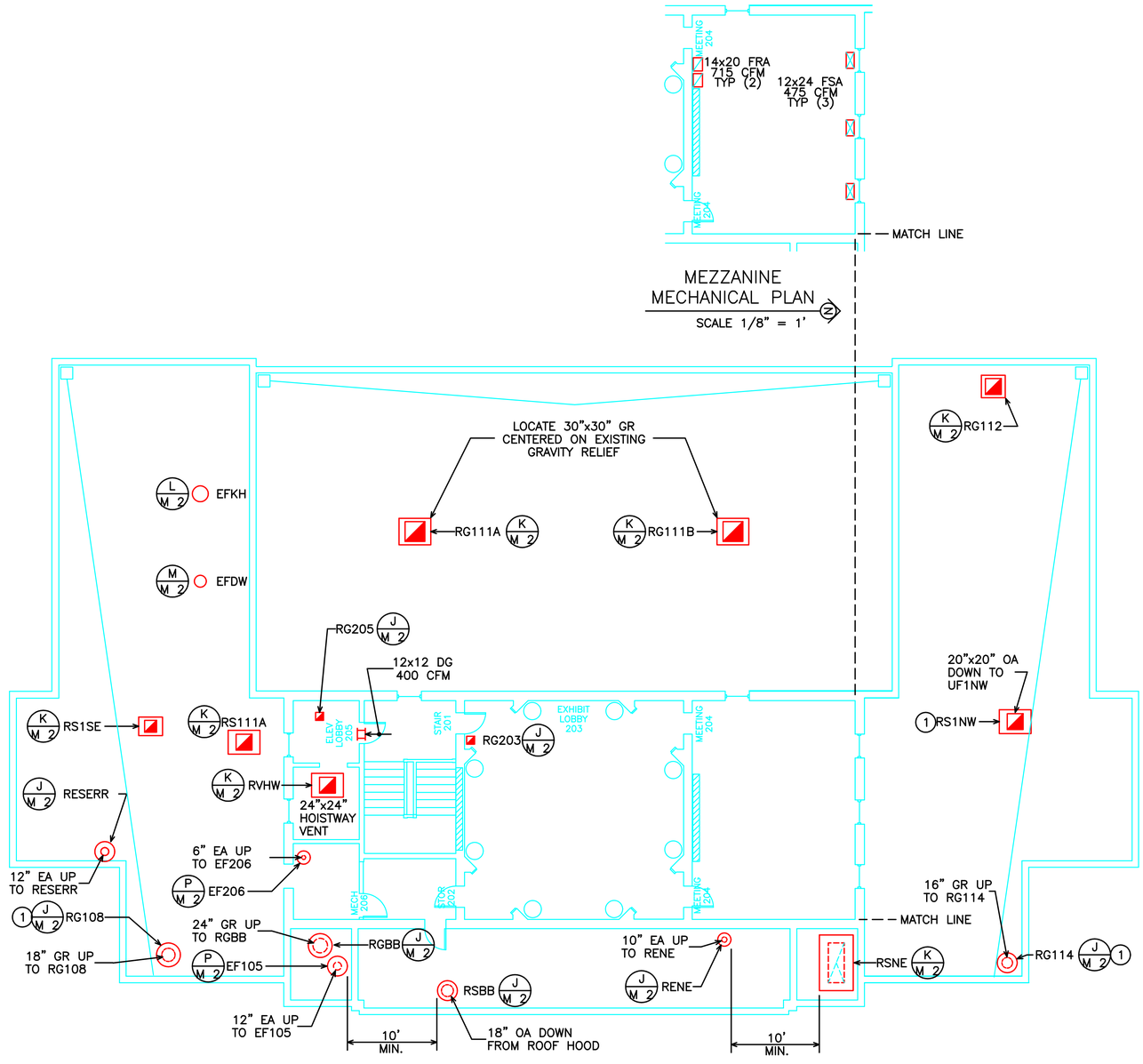

MEZZANINE
MECHANICAL PLAN
SCALE 1/8" = 1'

ROOF MECHANICAL PLAN
NOTE: SCALE 1/8" = 1'

(1) LOCATE ROOF MOUNTED EQUIPMENT AND RELATED DUCTS AND REGISTERS BELOW, SO AS NOT TO INTERSECT THE ROOF VALLEY.

MEZZANINE MECHANICAL EQUIPMENT SCHEDULE

EFDW GREENHECK CUBE 101-4 UPDRAFT DISHWASHER EXHAUST FAN, AIR FLOW 525 CFM AT 0.29"S.P., 120V-60HZ-1PH, 1/4 HP, WT. 81 LB. SWITCH CONTROL AT DISHWASHER. PROVIDE WITH DISCONNECT SWITCH.

EFKH GREENHECK CUBE 161HP-10 UPDRAFT KITCHEN HOOD EXHAUST FAN, AIR FLOW 1,688 CFM AT 1.42"S.P., 208V-60HZ-3PH, 1 HP, WT. 130 LB. SWITCH CONTROL AT KITCHEN HOOD. PROVIDE WITH DISCONNECT SWITCH.

EF105 GREENHECK CUBE-101 UP BLAST CENTRIFUGAL EXHAUST FAN WITH COUNTER BALANCED BACK DRAFT DAMPER, AIR FLOW 595 CFM AT 0.375"S.P. 120V-60HZ-1PH, 1/4 HP, 5.8 FLA, WT. 54 LB. LIGHT SWITCH CONTROL FROM MRR 105
PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER. PROVIDE WITH DISCONNECT SWITCH.

RVHW GREENHECK FGR ROOF MOUNTED GRAVITY RELIEF HOOD, 24"x24" THROAT. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RG111A GREENHECK FGR ROOF MOUNTED GRAVITY RELIEF HOOD,
RG111B 30"x30" THROAT. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RGBB GREENHECK GRSR-24 ROOF MOUNTED GRAVITY RELIEF HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RS1SE GREENHECK FGI ROOF MOUNTED INTAKE HOOD, 18"x18" TROAT. PROVIDES VENTILATION AIR TO UF1SE. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RG108 GREENHECK GRSR-20 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RG203 GREENHECK GRSR-10 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RENE GREENHECK GRSR-10 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RESERR GREENHECK GRSR-12 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RG205 GREENHECK GRSR-12 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RG114 GREENHECK GRSR-16 ROOF MOUNTED EXHAUST HOOD. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

EF206 GREENHECK GB-071 ROOF MOUNTED EXHAUST FAN 100 CFM AT 0.375"S.P., 120V-60HZ-1PH, 1/6 HP, WT. 60 LB. RUN 24/7. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER. PROVIDE WITH DISCONNECT SWITCH.

RG112 GREENHECK FGR ROOF MOUNTED GRAVITY RELIEF HOOD, 24"x24" THROAT. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RSNE GREENHECK FGI ROOF MOUNTED INTAKE HOOD. 24"x60" THROAT. (PROVIDES VENTILATION AIR TO UFMN, UF1LOB, UF111B AND UF1NE) PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RS1NW GREENHECK FGI ROOF MOUNTED INTAKE HOOD, 24"x24" TROAT. PROVIDES VENTILATION AIR TO UF1NW. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

RS111A GREENHECK FGI ROOF MOUNTED INTAKE HOOD, 24"x24" TROAT. PROVIDES VENTILATION AIR TO UF111A. PROVIDE WITH COUNTER BALANCED BACK DRAFT DAMPER.

PRELIMINARY PLAN
FOR REVIEW
AND COMMENT

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

Consultant

Sheet Title
MEZZANINE AND ROOF
MECHANICAL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

Drawn DHH Reviewed
Date 11/10/16
Scale 1/8" = 1'
Sheet No.
M 10

REGISTERED PROFESSIONAL ENGINEER
DUANE H. HEBER
No. 15063
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ELECTRICAL SYMBOLS

	CONDUIT EXPOSED		
	CONDUIT CONCEALED or BURIED		
	CROSSHATCHES ON CONDUIT RUN INDICATED NUMBER OF #14 CONDUCTORS		
	CROSS HATCHES W/BARS INDICATES NUMBER OF #10 CONDUCTORS		
G	1/2"C–2#12,1#12G		
L	1/2"C–2#12,1#12G; 2#18 SOLID PLENUM (VIOLET/GREY) OR MC–PCS–DUO		
5E	1/2"C–2#12,1#12G; CAT5E		
5E	CAT5E		
LA–2	HOME RUN–DESTINATION SHOWN		
	CONDUIT DOWN		
	CONDUIT UP		
	CONNECTION POINT		
MCC	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN		
	SURFACE MOUNT PANELBOARD		
	RECESS MOUNT PANELBOARD		
	LUMINAIRE		NOTE 4
	LUMINAIRE		NOTE 4
Sa or Sa	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING		NOTE 4
	LUMINAIRE W. EMERGENCY BATTERY PACK		NOTE 4
	EXIT LIGHT – ARROW INDICATES DIRECTIONAL CHEVRON		NOTE 4
	EXIT LIGHT WITH DC LIGHT UNIT		NOTE 4
	EMERGENCY DC LIGHT UNIT		NOTE 4
	FLOOD LIGHTS		NOTE 4
	WALL MOUNTED LUMINAIRE		NOTE 4
	LUMINAIRE AND POLE		NOTE 4
S_{XX}	WALL SWITCH:	2–DOUBLE POLE 3–THREE WAY WP–WEATHERPROOF	NOTE 1
OS OS	OCCUPANCY SENSOR CEILING OR WALL (ARROW INDICATES DIRECTION)		
PS LV PH CR GP	PS – POWER SUPPLY FOR LOW VOLTAGE DEVICES LV – LOW VOLTAGE DIMMING 20A RELAY PH – PHASE DIMMING 20A RELAY CR – CONTROLLED RECEPTACLE 20A RELAY GP – GENERAL PURPOSE/MOTOR LOAD 20A RELAY		
XX	CONVENIENCE RECEPTACLE. DUPLEX	WP–WEATHERPROOF TL–TWISTLOCK CR–CONTROLLED RECEPT	NOTE 3
XX	4–PLEX CONVENIENCE RECEPTACLE		NOTE 3
	208/240V RECEPTACLE		NOTE 5
	FLOOR BOX		
	LOW VOLTAGE DEVICE BOX	3/4"C–STUB UP TO CEILING PLENUM;	NOTE 3
	DATA (CAT5E) TELEPHONE AND DATA (CAT5E,RJ25) TELEVISION (CAT6,RG6)	3/4"C–STUB UP TO CEILING PLENUM; HOME RUN TO RESPECTIVE CONTROL ROOM OR CONNECTION POINT	NOTE 3
30	NONFUSED DISCONNECT, SIZE INDICATED 3–POLE UNLESS INDICATED OTHERWISE	WP–WEATHERPROOF	
60/40 F	FUSED DISCONNECT, SIZE INDICATED 3–POLE UNLESS INDICATED OTHERWISE	(60/40) 60=SWITCH RATING: 40=FUSE RATING	
J	JUNCTION BOX		
	CADWELDED GROUND CONDUCTOR CONNECTION		
	GROUND ROD		
	GROUND		
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3–POLE UNLESS INDICATED OTHERWISE		
120/240V 15KVA,1PH	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE		
(3)	CURRENT TRANSFORMER, NUMBER INDICATED		

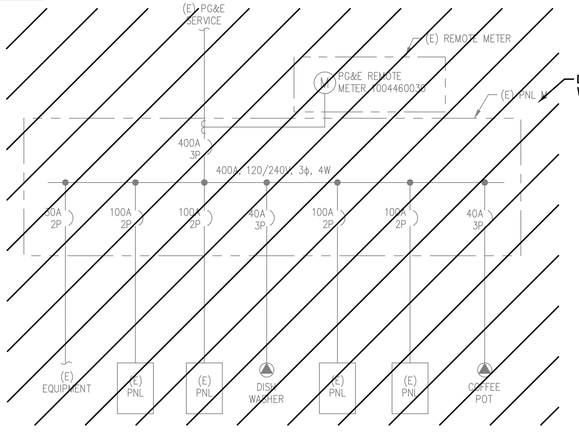
NOTES:

1. MOUNT 48" AFF TO TOP OF DEVICE UNLESS OTHERWISE INDICATED. ALL DEVICE PLACEMENTS SHALL BE IN COMPLIANCE WITH CBC 11B–308.
3. MOUNT 15" AFF FROM THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED. ALL DEVICE PLACEMENTS SHALL BE IN COMPLIANCE WITH CBC 11B–308. MAX HEIGHT TO TOP OF DEVICE SHALL BE 48"AFF UNLESS OTHERWISE NOTED.
4. TYPE INDICATED, SEE LUMINAIRE SCHEDULE.
5. COORDINATE CONFIGURATION WITH EQUIPMENT PROVIDER.

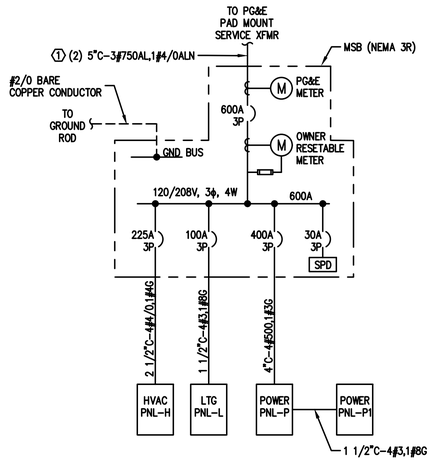
ELECTRICAL ABBREVIATIONS

A	– AMMETER,AMPERE
AC	– ALTERNATING CURRENT
ACH	– ABOVE COUNTER HEIGHT
AFCI	– ARC FAULT CIRCUIT INTERRUPTER
AFF	– ABOVE FINISHED FLOOR
AIC	– AMPS INTERRUPTING CAPACITY
BRKR	– BREAKER
C or COND	– CONDUIT
CKT	– CIRCUIT
CR	– CONTROLLED RECEPTACLE
CT	– CURRENT TRANSFORMER
DC	– DIRECT CURRENT
(E) or EXIST	– EXISTING
G	– GROUND
GFCI	– GROUND FAULT CIRCUIT INTERRUPTER
J	– JUNCTION BOX
LCP	– LIGHTING CONTROL PANEL
LTG	– LIGHTING
MFR	– MANUFACTURER
NEC	– NATIONAL ELECTRICAL CODE
N	– NEUTRAL
NEMA	– NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
PB	– PULL BOX
PC	– PHOTOCELL
PNL	– PANELBOARD
RECEPT	– RECEPTACLE
RM	– ROOM
SWBD	– SWITCHBOARD
T	– THERMOSTAT OR TELE CONDUIT
TYP	– TYPICAL
V	– VOLTMETER, VOLT
W	– WATT
WP	– WEATHERPROOF (NEMA 4)
XFMR	– TRANSFORMER

NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS



EXISTING ONE–LINE DIAGRAM



NEW WORK ONE–LINE DIAGRAM

KEY NOTES

1. PROVIDE AND INSTALL IN ACCORDANCE WITH PG&E REQUIREMENTS

HVAC LOAD LIST

ITEM	LOAD (VA)
HFBN	1100
UFBB	1400
UFBD1	1400
UFBD2	1400
UF1SW	1100
TF002	180
DFBB	2702
MA	1260
DFRR	1657
UF1LOB	900
HF1NW	1416
UF1NE	1100
UF111A	1440
UF111B	1440
HF1SE	1440
UFMN	1100
EFDW	720
EFKH	2522
EF105	720
TOTAL	**24997**

DISCONNECT AND REPLACE WITH NEW AS SHOWN

STANDARD CALCULATION - COMMERCIAL AND INDUSTRIAL

1. Lighting Loads

General Lighting Loads-Table 220.12, 220.42
24,000 sq. ft. X 2 VA = 48000 VA X 125% = 60000 VA
Show Window Loads - 220.43(a)
0 lin. ft. X 200 VA = 0 VA 0 VA
Track Lighting Loads - 220.43(b)
0 lin. ft., X 180 VA = 0 VA 0 VA

Outside Lighting Loads-Table 220.12, 220.42
1000 VA X 1 UNIT = 1000 VA X 125% = 1250 VA OCPD
(125% x VA)(100% x VA)
Sign Lighting Loads-220.14(f)
0 VA X 125 % = 0 VA 0 VA PHASES NEUTRAL

TOTAL: 61250 VA 76563 VA 61250 VA

2. Receptacle Loads

Non-continuous Duty-220.14(i)
200 X 180 VA = 36000 VA
Apply Demand Factor-Table 220.44
First 10,000VA 10,000 VA X 100% = 10000 VA 10000 VA
Remaining 26000 VA X 50% = 13000 VA 13000 VA
Continuous Duty-220.14(i), 210.20(a)
0 X 180 VA = 0 VA X 125% = 0 VA
Multioutlet Assembly-220.14(h)
Heavy Duty : 0 lin. ft. / 1 ft. X 180 VA = 0 VA 0 VA
Light Duty : 0 lin. ft. / 5 ft. X 180 VA = 0 VA 0 VA

TOTAL: 23000 VA 28750 VA 23000 VA

3. Special Loads-220.14(a), 220.56, 422.10(a)

Elevator	=	18734 VA	X 100 %	=	18734 VA	18734 VA
Refer (4)	=	5000 VA	X 100 %	=	5000 VA	5000 VA
Microwave (2)	=	2500 VA	X 100 %	=	2500 VA	2500 VA
	=	VA	X %	=	0 VA	0 VA
	=	VA	X %	=	0 VA	0 VA
TOTAL:					26234 VA	32793 VA 26234 VA

4. Heating or AC Loads-220.50, 220.51, 440.6(a)

See HVAC List	=	24997 VA	X 100 %	=	24997 VA	24997 VA
	=	VA	X %	=	0 VA	0 VA
	=	VA	X %	=	0 VA	0 VA
	=	VA	X %	=	0 VA	0 VA
	=	VA	X %	=	0 VA	0 VA
TOTAL:					24997 VA	31246 VA 24997 VA

5. Motor Loads-430.6(a), 430.22(a)

Insert 1 for 1-phase
Insert 1.73 for 3-phase

Sump Pumps	=	20 A	X 100 %	X 120 V	1	=	2400 VA	
Sewage Pumps	=	30 A	X 100 %	X 208 V	1	=	6240 VA	
	=	A	X %	X V		=	0 VA	
	=	A	X %	X V		=	0 VA	
TOTAL:							8640 VA	10800 VA 8640 VA

6. Largest Motor Load-220.18(a)

Insert 1 for 1-phase
Insert 1.73 for 3-phase

P:	52 A	X 100 %	X 208 V	X 1	X 25%	=	2704 VA	
N:	A	X %	X V	X	X 25%	=	0 VA	
TOTAL:							2704 VA	3380 VA 2704 VA

TOTAL: 183531 VA 146825 VA

1-PHASE SERVICE: I = VA / V		3-PHASE SERVICE: I = VA / (V*1.73)	
PHASE CURRENT = VA / V	= 0 A	PHASE CURRENT 183531 VA / 208 V X 1.73	= 509 A
NEUTRAL CURRENT = VA / V	= 0 A	NEUTRAL CURRENT 146825 VA / 208 V X 1.73	= 408 A

IF OVER 200A-220.61

FIRST 200A 200 A X 100% = 200 A
REMAINING 309 A X 70% = 216 A
416 A

BUILDING LOAD CALCULATION

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ONE–LINE DIAGRAM

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

Project ID
210502

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Sheet No.
E-001

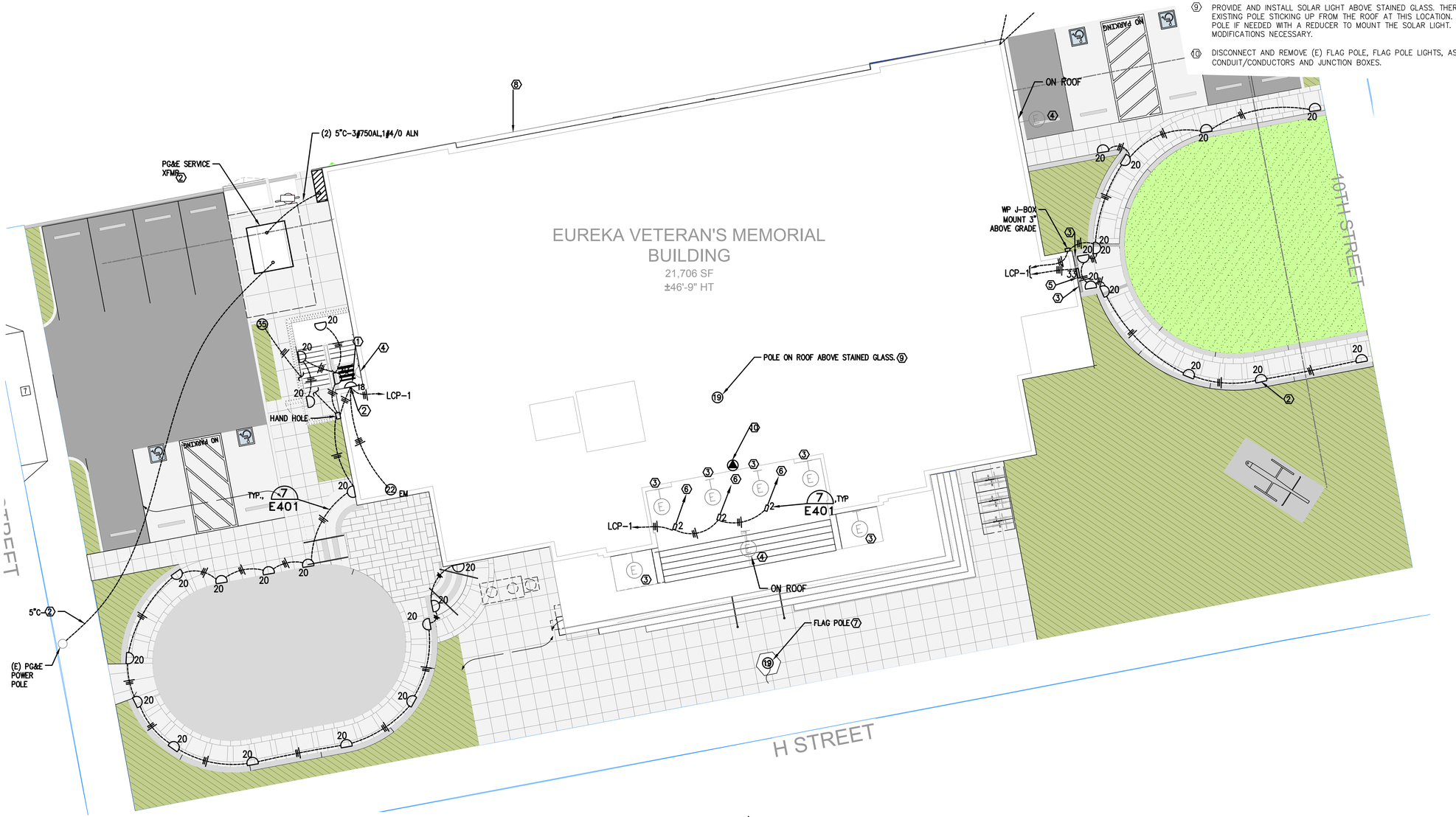
Plot Date: November 17, 2016 - 4:06 pm Login Name: bewing
File Name: M:\Land Projects\247101 Eureka Vets\DWG\E001.dwg, Layout: E-001

GENERAL NOTES

1. IT IS THE INTENT ON THIS PROJECT TO REMOVE (E)CONDUIT FROM THE EXTERIOR SURFACES OF THE BUILDING. MOST CONDUIT SHOULD BE REMOVED WITH THE REMOVAL OF (E)LUMINAIRES SHOWN. ANY CONDUIT REMAINING SHALL BE TRACED AND IDENTIFIED. NOTIFY ENGINEER OF FINDINGS. EVERY EFFORT SHALL BE MADE TO REROUTE SURFACE MOUNTED CONDUIT SO AS TO BE HIDDEN FROM PUBLIC VIEW BY ROUTING THROUGH THE BUILDING HIDDEN AND PENETRATING TO THE EXTERIOR.
2. UNLESS OTHERWISE NOTED, COORDINATE FINAL MOUNTING HEIGHTS WITH OWNER.

KEY NOTES

1. MOUNT AT SAME HEIGHT AS EXISTING ADJACENT LUMINAIRE TO BE REMOVED.
2. INSTALL IN ACCORDANCE TO PG&E REQUIREMENTS.
3. DISCONNECT AND REMOVE (E)FIXTURE. THE LUMINAIRE SHALL BE PROFESSIONALLY RECONDITIONED. COORDINATE WITH COUNTY/ARCHITECT FOR RECONDITIONING REQUIREMENTS. UPON RECONDITIONING, PROVIDE AND INSTALL (1) TYPE A LAMP. INSTALL AND RECONNECT LUMINAIRE AS EXISTING. REFERENCE ARCHITECTURAL SHEETS FOR FURTHER INSTRUCTIONS.
4. DISCONNECT/REMOVE EXISTING LUMINAIURE AT THIS LOCATION. REPAIR SURFACE TO MATCH EXISTING. REMOVE ALL ASSOCIATED CONDUIT/CONDUCTORS.
5. PROVIDE AND INSTALL TYPE B UNDER (N)CANOPY AT THIS LOCATION. MOUNT LUMINAIRE WITHIN CANOPY SO THAT IT CANNOT BE SEEN FROM THE PARKING LOT.
6. DIRECT LIGHT TO ILLUMINATE PLACARD ABOVE DOOR. ROTATE SHIELD TO DIRECT GLARE AWAY FROM PATHWAY BELOW.
7. PROVIDE AND INSTALL SOLAR FLAG POLE LIGHT ATOP (E)FLAG POLE. PROVIDE, INSTALL AND MAKE MODIFICATIONS NECESSARY FOR A COMPLETE INSTALL.
8. TRACE AND IDENTIFY (E)LOW VOLTAGE CABLING. IF NOT IN USE, DISCONNECT/REMOVE EXISTING CABLING. IF IN USE, REROUTE NEW CABLING HIDDEN WITHIN THE INTERIOR OF THE BUILDING. CONNECT (E)EQUIPMENT AS EXISTING.
9. PROVIDE AND INSTALL SOLAR LIGHT ABOVE STAINED GLASS. THERE IS AN EXISTING POLE STICKING UP FROM THE ROOF AT THIS LOCATION. MODIFY THE POLE IF NEEDED WITH A REDUCER TO MOUNT THE SOLAR LIGHT. MAKE MODIFICATIONS NECESSARY.
10. DISCONNECT AND REMOVE (E) FLAG POLE, FLAG POLE LIGHTS, ASSOCIATED CONDUIT/CONDUCTORS AND JUNCTION BOXES.



ELECTRICAL SITE PLAN
1/16"=1'-0"

Plot Date: November 17, 2016 - 4:06 pm Login Name: bewing
File Name: M:\Land Projects\247101 Eureka Vets\DWG\E-002.dwg, Layout: E-002

Date: 11/2016 Time: 3:51:22 AM File name: Vets Hall - 151014 - CP.vwx

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STATE OF CALIFORNIA

Sheet Title: ELECTRICAL SITE PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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Date: 11/10/16
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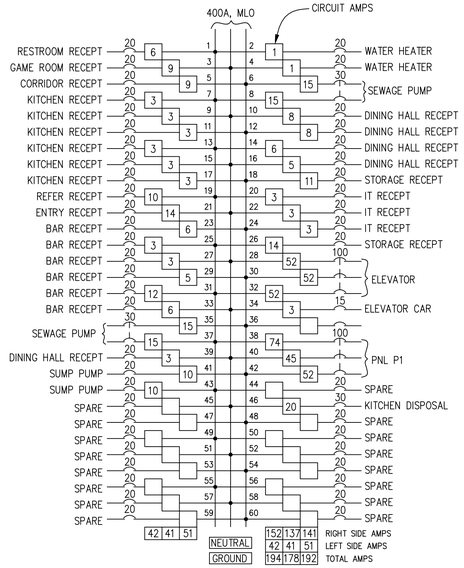
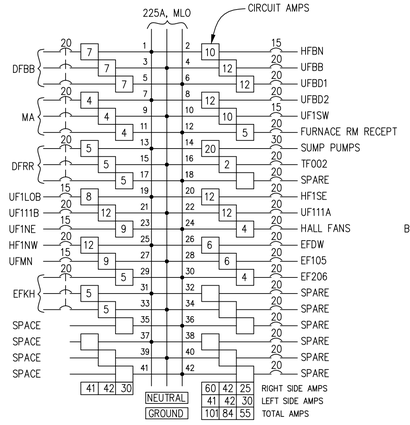


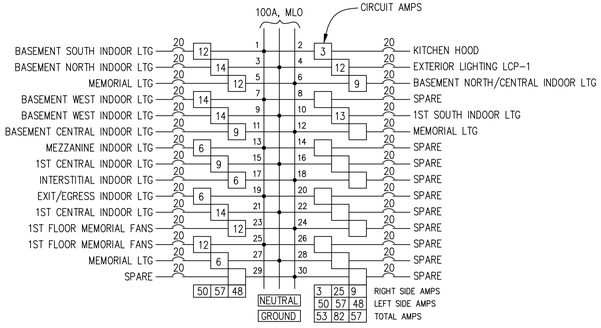
PANEL NO. P

VOLTAGE: 120/208V
LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
AMPS IC: 22,000



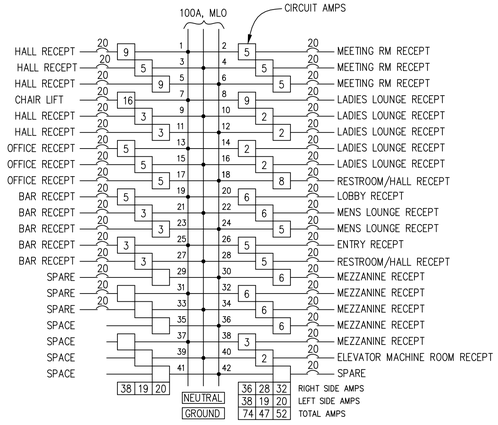
PANEL NO. H

VOLTAGE: 120/208V
LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
AMPS IC: 22,000



PANEL NO. L

VOLTAGE: 120/208V
LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
AMPS IC: 10,000



PANEL NO. P1

VOLTAGE: 120/208V
LOCATION: FIRST FLOOR
MOUNTING: SURFACE
AMPS IC: 22,000

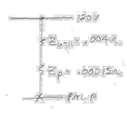
AIC Available from PG&E = 30,002A

$Z_{MTL} = \frac{120V}{30,002A} = .004\Omega$

PNL P Feeder = 500 MCM Cu => .093Ω/1000 ft

PNL P Feeder distance = 50 ft

$Z_P = .093\Omega/1000ft \times 50ft = .0082\Omega$



$I_{SCP} = \frac{120V}{.004\Omega + .0082\Omega} = \frac{120V}{.0215\Omega} = 5,581A$

Provide PNL P with 22,000 AIC Rating

PNL P SHORT CIRCUIT CALCULATION

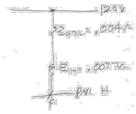
AIC Available from PG&E = 30,002A

$Z_{MTL} = \frac{120V}{30,002A} = .004\Omega$

PNL H Feeder = #4/0 Cu => .077Ω/1000 ft

PNL H Feeder Distance = 50 ft

$Z_P = .077\Omega/1000ft \times 50ft = .0077\Omega$



$I_{SCH} = \frac{120V}{.004\Omega + .0077\Omega} = \frac{120V}{.0077\Omega} = 15,584A$

Provide PNL H with 22,000 AIC Rating

PNL H SHORT CIRCUIT CALCULATION

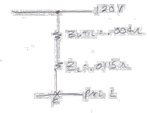
AIC Available from PG&E = 30,002A

$Z_{MTL} = \frac{120V}{30,002A} = .004\Omega$

PNL L Feeder = #3 Cu => .03Ω/1000 ft

PNL L Feeder Distance = 50 ft

$Z_L = .03\Omega/1000ft \times 50ft = .0115\Omega$



$I_{SCL} = \frac{120V}{.004\Omega + .015\Omega} = \frac{120V}{.0155\Omega} = 7,742A$

Provide PNL L with 10,000 AIC Rating

PNL L SHORT CIRCUIT CALCULATION

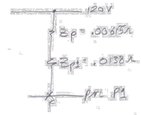
AIC Available from PNL P = 19,512A

$Z_P = \frac{120V}{19,512A} = .0061\Omega$

PNL P1 Feeder = #3 Cu => .23Ω/1000 ft

PNL P1 distance = 60 ft

$Z_{P1} = .23\Omega/1000ft \times 60ft = .0138\Omega$



$I_{SCP1} = \frac{120V}{.0061\Omega + .0138\Omega} = \frac{120V}{.0199\Omega} = 6015A$

Provide PNL P1 with 10,000 AIC Rating

PNL P1 SHORT CIRCUIT CALCULATION

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PANEL SCHEDULES

Sheet Title

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

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LUMINAIRE SCHEDULE

TYPE	LAMPS	DESCRIPTION	MFR
1	50W LED	DISPLAY LIGHT, WALL MOUNT, BRUSHED NICKEL, GOOSE NECK ADJUSTABLE HEAD, MR-16 LED LAMP, PHASE DIMMING, 120VAC. CONTRACTOR TO PROVIDE AND INSTALL COMPATIBLE, DIMMABLE MR-16 LED LAMP WITH NARROW BEAM, 30-35W EQUAL, 2700-3000K.	GEORGE KOVACS P220-084
2	12.5W LED	ACCENT LIGHT, TEXTURED ARCHITECTURAL BRONZE MARINE GRADE POWDER COAT, FLANGE FOR SURFACE MOUNTING, 360° COWL, 10° BEAM SPREAD, 3000K, 120VAC.	KICHLER 16200 SERIES DESIGN PRO LED ACCENT
3	27.4W LED	4" LED RECESS ADJUSTABLE WALL WASH, WHITE APERTURE/TRIM COLOR, MATTE DIFFUSE REFLECTOR FINISH, 0-10V DIMMING DRIVER/LED RATED FOR L70/60,000 HRS, 1400 LUMENS, 3000K, 120VAC. PROVIDE AND INSTALL TENMATS FOR SPACES WHERE LUMINAIRE SHALL HAVE CONTACT WITH INSULATION OR OTHER FLAMMABLE MATERIALS.	GOTHAM EVO LW-30K-14-4WR-LD-120
4	5W PER FT LED	FOLDABLE 24V HIGH OUTPUT LED TAPE LIGHT, LENGTHS/FIELD CUT AS REQUIRED, FLEXIBLE SILICONE CASED TAPE LIGHT, PEEL AND STICK 3M CONSTRUCTION ADHESIVE ON BACK, 33' MAXIMUM RUN LENGTH, 50,000 HRS, ELV DIMMING, 396 LUMENS/FT, 3000K, 120VAC POWER SUPPLIES AND ACCESSORIES AS REQUIRED, CHANNEL/MOUNTING CLIPS AS REQUIRED. CONTRACTOR TO VERIFY NUMBER OF DRIVERS REQUIRED.	WAC LIGHTING LEDTE24-30-XX-WT
5	17.5W LED	SURFACE MOUNT WALL SCONCE, SOLID BRASS WITH ETCHED OPAL DIFFUSER, nLIGHT ENABLED DIMMING DRIVER, 517 LUMENS, 3000K, 120VAC.	WINONA WFW4922-LWP1A-30K-N100-MVOLT-FAH5-AB2
6	153W LED	12' LED, SUSPENDED MOUNT WITH LENGTH AS SHOWN, BATWING DISTRIBUTION, INJECTED MOLDED OPTIC, INDIRECT 98% UPLIGHTING, 2% DOWNLIGHT, INTEGRATED DAYLIT SENSOR, ACCESSORIES AS REQUIRED, 0-10V DIMMING DRIVER/LED RATED FOR L80/50,000 HRS, 4530 LUMENS, 3000K, 120VAC. (MOUNT DAYLIT SENSOR IN SECTION SHOWN ON PLANS. DAYLIT SENOR SHALL ONLY CONTROL THE LAST 4' OF THE LUMINAIRE IT IS MOUNTED WITHIN. EMERGENCY BATTERY BACKUP POWER SHALL BE AS SHOWN ON PLANS, OPPOSITE OF THE DAYLIT SENSOR.)	PEERLESS 7CRM3L-HI-12FT-R12-120-SCT-EZB-DSCNL-LP830
7	88W LED	8' LED SURFACE, 22 GAUGE STEEL HOUSING, SNAP IN FROSTED ACRYLIC LENS, DIMMABLE, 3500K, 9600 LUMENS, 120VAC, EMERGENCY BATTERY BACKUP WHERE SHOWN ON PLANS.	ALCON LIGHTING 12107S-SF-96-R969600-35K-WH
8	24W LED	LED WALL LUMINAIRE, SANDSTONE ALUMINUM HOUSING, ONE LIGHT ENGINE, 700mA DRIVE TFTM CURRENT, 1800 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY BACKUP.	LITHONIA MRW LED-1-10A700/30K-SR4-MVOLT-ELCW-VG-DSSXD
9	17.5W LED	SURFACE MOUNT WALL SCONCE, SOLID BRASS WITH ETCHED OPAL DIFFUSER, 0-10V DIMMING DRIVER, 517 LUMENS, 120VAC.	WINONA WFW4922-LWP1A-30K-MVOLT-FAH5-AB2
10	34W LED	1'x4' LED, RECESS MOUNT, DRYWALL ADAPTOR, VOLUMETRIC REFRACTOR, WHITE POLYESTER POWDER COAT, 0-10V DIMMING DRIVER/LED RATED FOR L70/100,000 HRS, CRI90, 4000 LUMENS, 3000K, 120VAC.	CREE CR14-40L-30K-10V
11	40W LED	2'x4' LED, RECESS MOUNT, DRYWALL ADAPTOR, VOLUMETRIC REFRACTOR, WHITE POLYESTER POWDER COAT, 0-10V DIMMING DRIVER/LED RATED FOR L70/100,000 HRS, CRI90, 4000 LUMENS, 3000K, 120VAC.	CREE CR24-40L-30K-10V
12	41W LED	4' LED, SURFACE MOUNT, WRAPAROUND PRISMATIC ACRYLIC LENS, WHITE POLYESTER POWDER COAT, LED RATED FOR L80/50,000 HRS, 4000 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS.	LITHONIA LBL4; OR EQUAL
12D	48W LED	4' LED, SURFACE MOUNT, WRAPAROUND PRISMATIC ACRYLIC LENS, WHITE POLYESTER POWDER COAT, 0-10V DIMMING DRIVER/LED RATED FOR L80/50,000 HRS, 4800 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS.	LITHONIA LBL4; OR EQUAL
12N	48W LED	4' LED, SURFACE MOUNT, WRAPAROUND PRISMATIC ACRYLIC LENS, WHITE POLYESTER POWDER COAT, nLIGHT ENABLED DIMMING DRIVER/LED RATED FOR L80/50,000 HRS, 4800 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS.	LITHONIA LBL4; OR EQUAL
13	17.5W LED	36" DIAMETER PENDANT, SOLID BRASS WITH ETCHED OPAL DIFFUSER, nLIGHT ENABLED DIMMING DRIVER/LED RATED 50,000 HRS, 6103 LUMENS, 3000K, 120VAC.	WINONA WFP4920-36DIA-LBP2A-30K-MVOLT-ID-N80-FAH5-AB2
14	23.5W LED	4" LED RECESS CAN, WHITE APERTURE/TRIM COLOR, MATTE DIFFUSE REFLECTOR FINISH, nLIGHT ENABLED/DIMMING DRIVER/LED RATED FOR L70/60,000 HRS, WIDE DISTRIBUTION, 2000 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS. PROVIDE AND INSTALL TENMATS FOR SPACES WHERE LUMINAIRE SHALL HAVE CONTACT WITH INSULATION OR OTHER FLAMMABLE MATERIALS.	GOTHAM EVO-30-20-4WR-WD-LD
15		NOT USED.	
16N	47W LED	1'x4' LED, SURFACE MOUNT, PRISMATIC .156" ACRYLIC LENS, WHITE POLYESTER POWDER COAT, nLIGHT ENABLED DIMMING DRIVER/LED RATED FOR L90/60,000 HRS, 4000K, 5000 LUMENS, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS.	LITHONIA TLX4; OR EQUAL.
17	24W LED	3-LAMP LED VANITY, BRONZE CYLINDER FITTERS, CARAMEL SWIRL SMALL BELL SHADE, LINE VOLTAGE DIMMING, L70/50,000 HRS, 820 LUMEN, 2910K, 120VAC. CONTRACTOR SHALL INSTALL VANITY WITH SHADE OPENING IN AN UPWARD ORIENTATION.	LITHONIA MWV-C-3-BZ; OR EQUAL
18	16W LED	TUBE WALL SCONCE, WHITE COLOR, ALUMINUM HOUSING WITH ETCHED SINGLE LIGHT GLASS LENS, HIGH OUTPUT LED RATED DRIVER RATED 70,000HRS, 3000K, 1750 LUMENS, 120VAC.	WINONA WS-W2605-WH
19	SOLAR LED	SOLAR LIGHT FOR FLAG POLE, 100,000 HRS. MAKE MODIFICATIONS NECESSARY FOR COMPLETE INSTALL.	ANNIN SOLAR LIGHT FOR FLAGPOLES. AVAILABLE WWW.EAGLEMOUNTAINFLAG.COM ITEM CODE: SOLARLIGHT
20	18.3W LED	LED STEP LIGHT, DIE CAST WHITE TEXTURED ALUMINUM HOUSING, GASKETED SEAL FOR WE LOCATIONS, IP65 RATING WITH 838 LED TRIM, DRIVER RATED L70/50,000 HRS 3000K, 120VAC.	JUNO IC1 15LEDHSG-838LED-13-3K-SR
21		NOT USED.	
22	25W LED	6" LED RECESS CAN, 1/8" PRISMATIC POLYCARBONATE VANDAL RESISTANT LENS, MARINE GRADE DIE-CAST ALUMINUM BEZEL, LED RATED FOR L70/60,000 HRS, WIDE DISTRIBUTION, 2500 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER. PROVIDE AND INSTALL TENMATS FOR SPACES WHERE LUMINAIRE SHALL HAVE CONTACT WITH INSULATION OR OTHER FLAMMABLE MATERIALS.	GOTHAM EVO-VR-30-25-6AR-PPC-MVOLT-ELR-DNA; OR EQUAL
23	60W LED	WALL SCONCE, WHITE DIFFUSED SKYSCRAPER STYLE SHADE TOP, BLACK CAST PORCELAIN BODY, INCANDESCENT A-16 LAMP BASE, PHASE DIMMING, 120VAC. PROVIDE AND INSTALL TYPE B LAMP.	REJUVENTION ECHO ITEM A7336
24	38W LED	46" STRIP LIGHT, CODE-GAUGE COLD-ROLLED STEEL HOUSING, SNAP ON FROSTED DIFFUSER, 0-10V DIMMING DRIVER LED/RATED L70/60,000HRS, 5000 LUMENS, 3500K, 120VAC.	LITHONIA ZL1N-L46-5000LM-FST-MVOLT-30K-80CRI-WH
25	3W PER FT LED	24V HIGH OUTPUT LED TAPE LIGHT, LENGTHS/FIELD CUT AS REQUIRED, FLEXIBLE SILICONE CASED TAPE LIGHT, PEEL AND STICK 3M CONSTRUCTION ADHESIVE ON BACK, 33' MAXIMUM RUN LENGTH, 50,000 HRS, ELV DIMMING, 3000K, 120VAC POWER SUPPLIES AND ACCESSORIES AS REQUIRED, CHANNEL/MOUNTING CLIPS AS REQUIRED. CONTRACTOR TO VERIFY NUMBER OF DRIVERS REQUIRED.	WAC LIGHTING LEDT24-PXX-WT
26	72.7W LED	LED EXTERIOR POLE MOUNT, DIE-CAST ALUMINUM HOUSING, FULLY GASKETED TEMPERED GLASS LENS, DARK BRONZE CORROSION RESISTANT FINISH, R5 DISTRIBUTION, UL LISTED WET LOCATIONS, 100,000 HRS, 3000K, 6500 LUMENS, 120VAC. POLE: 16 FT. TALL, BRONZE ANODIZED FINISH, 4.5 EPA-FT² @ 100MPH WIND VELOCITY MINIMUM RATING, 0.125-INCH WALL THICKNESS MINIMUM. VERIFY CONFIGURATION COMPATIBILITY WITH MFR.	ANTIQUE STREET LAMPS EHL22-FT-63LED 350MA-3K-GCF-MVOLT-R5-1DS-DDB ANTIQUE STREET LAMPS EPSX 16 S4 POLE WITH EAD4/1 ARM
27	14.4W LED	6" SURFACE JUNCTION BOX BOX MOUNT DOWNLIGHT, ELV DIMMING, DIE CAST ALUMINUM TRIM RING, WHITE FINISH, 3000K, 1200 LUMENS, 120VAC.	HALO SLD612-8-30-WH-UNV
28	4W LED	LED STEP LIGHT, DARK BRONZE CAST ALUMINUM HOUSING, ELV DIMMING, 2700K, 250 LUMENS, 120VAC.	HINKLEY 58015BZ-LED
29	10W LED	RECESSED 4" EMERGENCY LUMINAIRE, 55'-0" 1FC MINIMUM LINEAR PROJECTION FOR CORRIDORS, SATIN WHITE FINISH, 90 MINUTE RUN TIME, 10 WATT LED LAMP, INTEGRAL BATTERY BACKUP, IC RATED, 120VAC. DIRECT PROJECTION PARALLEL TO PATH OF EGRESS.	MULE LIGHTING ELD-BB-10L3-W
30	12.8W LED	4" LED RECESS CAN, WHITE APERTURE/TRIM COLOR, MATTE DIFFUSE REFLECTOR FINISH, nLIGHT ENABLED DIMMING DRIVER/LED RATED FOR L70/60,000 HRS, WIDE DISTRIBUTION, 1000 LUMENS, 3000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS. PROVIDE AND INSTALL TENMATS FOR SPACES WHERE LUMINAIRE SHALL HAVE CONTACT WITH INSULATION OR OTHER FLAMMABLE MATERIALS.	GOTHAM EVO-30-10-4WR-WD-LD
31	41W LED	4' LED, SURFACE MOUNT, WRAPAROUND PRISMATIC ACRYLIC LENS, WHITE POLYESTER POWDER COAT, 0-10V DIMMING DRIVER, INTEGRAL OCCUPANCY SENSOR, LED RATED FOR L80/50,000 HRS, 4000 LUMENS, 4000K, 120VAC, EMERGENCY BATTERY POWER WHERE SHOWN ON PLANS.	LITHONIA LBL4; OR EQUAL
32	50W LED	DISPLAY SPOT LIGHT, INTEGRAL DIMMABLE ELECTRONIC TRANSFORMER, CEILING MOUNT, 3 3/8 BODY, HONEYCOMB LOUVER LENS, 120VAC. PROVIDE AND INSTALL COMPATIBLE DIMMABLE LED MR16 40° OPTIC, 3000K, 550-600 LUMENS MINIMUM.	ME-808-BK-LENS-16-HCL
33	2W/FT LED	LOW VOLTAGE HARDSCAPE LIGHTING, LOW PROVIDE STRIP LIGHT, WIDE DIFFUSE ILLUMINATION, ANTIQUE BRONZE HOUSING, L70/60,000 HRS, 2700K, 10-15V. PROVIDE AND INSTALL COMPATIBLE TRANSFORMER.	VOLT VHS-67-XX-BZ; OR EQUAL
34	20W LED	LED DIRECTIONAL RECESSED OVAL 2" APERTURE, 45° TILT, 365° ROTATION, 40° BEAM SPREAD, 0-10V DIMMING, 120VAC. CONTRACTOR SHALL ADJUST FIXTURE TO ILLUMINATE DECORATIVE DISPLAYS.	JUNO PN3LED-12-FL-930-E010-E3OVAL
35	24W LED	36" BOLLARD, 120VAC.	U.S. ARCHITECTURAL BRC8-CL-24LED-4000K-120-RAL-8019-T-NAT-36-0AH-
36	24W FLUORESCENT	EMERGENCY LIGHTING, RECESS MOUNT, UV STABILIZED WHITE ABS THERMOPLASTIC HOUSING, FLUORESCENT TUBE, SEALED MAINTENANCE-FREE NICAD BATTERY, MULTI-FACETED REFLECTOR, 90 MINUTE DISCHARGE, UL LISTED, SOLID-STATE CHARGER, 120VAC.	MULE LTG RIPARO SERIES; OR EQUAL
⊗	13W FACE	EXIT LIGHT, SINGLE FACE, GREEN PANEL, WHITE ABS THERMOPLASTIC HOUSING, INTEGRATED LED LIGHT BAR, UNIVERSAL MOUNTING, POP-OUT DIRECTIONAL CHEVRONS, SEALED MAINTENANCE-FREE NICAD BATTERY, GREEN LED AC INDICATOR, UL LISTED, SOLID-STATE CHARGER, 120VAC.	LITHONIA ECBG LED M6; OR EQUAL

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO SELECT, PROVIDE AND INSTALL ACCESSORIES NECESSARY TO RENDER A COMPLETE, PROFESSIONAL AND CODE COMPLIANT INSTALLATION OF ALL LUMINAIRES ASSOCIATED WITH THE PROJECT. THIS INCLUDES DRYWALL CEILING INSTALLATION KITS, TENMATS FOR RATED APPLICATIONS, WHIPS, CABLING OR ANY OTHER ITEMS REQUIRED FOR EACH LUMINAIRE'S SPECIFIC INSTALLATION LOCATION. SEE ARCHITECTURAL SHEETS FOR FURTHER INSTALLATION REQUIREMENTS.

LAMP SCHEDULE

TYPE A	18W LED	LED LAMP, DIMMABLE, 100W EQUIVALENT, RATED FOR 25,000 HOURS, 2700K, 1600 LUMENS, 120VAC.	CREE A21-100W-27K-120-E26; OR EQUAL.
TYPE B	7W LED	LED LAMP, CLASSIC FILAMENT STYLE, DIMMABLE, 60W EQUIVALENT, RATED FOR 25,000 HOURS, 2700K, 800 LUMENS, 120VAC.	EARTHLED 2700K-TKUA19F-7W-D-827; OR EQUAL.
TYPE C	4W LED	LED LAMP, CLASSIC FILAMENT STYLE, DIMMABLE, 40W EQUIVALENT, RATED FOR 25,000 HOURS, 2700K, 400 LUMENS, 120VAC.	EARTHLED SL-41068; OR EQUAL.
TYPE D	4W LED	LED LAMP, FLAME CANDELABRA, CLASSIC FILAMENT STYLE, DIMMABLE, 40W EQUIVALENT, RATED FOR 25,000 HOURS, 2700K, 400 LUMENS, 120VAC.	EARTHLED SL-41117; OR EQUAL.

LAMP SHADE SCHEDULE

TYPE E		BURLAP CHANDELIER LAMP SHADE, 5 INCH RETRO DRUM, CLIPS ONTO LAMP	UPGRADELIGHTS ABSBOOFPOL8RA; OR EQUAL.
TYPE F		ART DECO 17IN LONG SKYSCRAPER OPAL SHADE, FITTER OUTSIDE DIAMETER 5-3/4". VERIFY COMPATIBILITY WITH EXISTING PENDANT FIXTURE.	REJUVENATION ITEM B7164

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Sheet Title: LIGHTING SCHEDULES

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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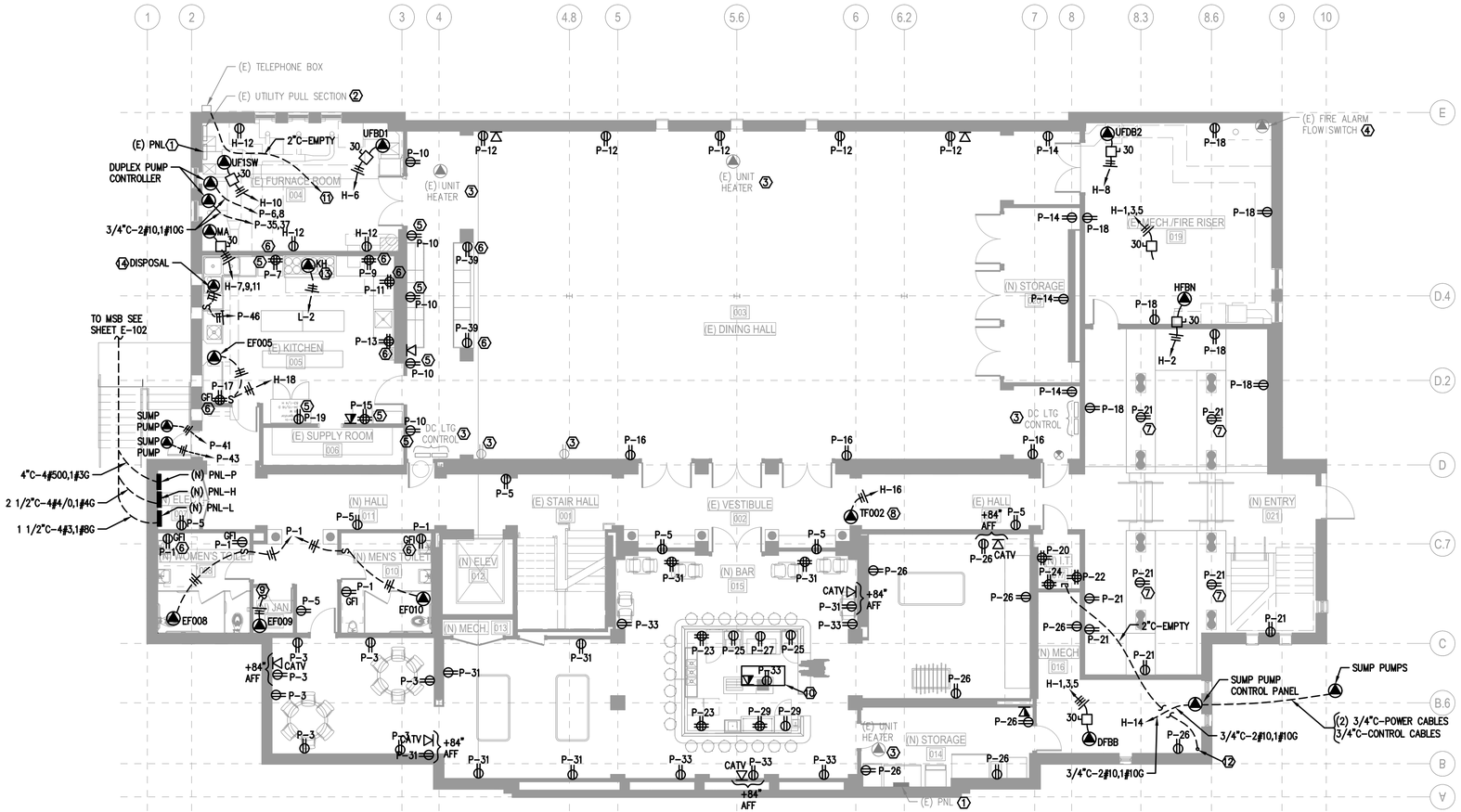

BASEMENT ELECTRICAL PLAN
1/8"=1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING PANEL.
2. DISCONNECT AND REMOVE EXISTING UTILITY PULL SECTION. COORDINATE REMOVAL WITH PG&E.
3. DISCONNECT AND REMOVE EXISTING EQUIPMENT.
4. RETAIN EXISTING FIRE ALARM FLOW SWITCH FOR FIRE ALARM ANNUNCIATION.
5. REPLACE EXISTING RECEPTACLES WITH NEW AND CONNECT TO CIRCUIT INDICATED.
6. MOUNT 6-INCHES ABOVE COUNTER.
7. CEILING MOUNTED RECEPT.
8. INTERLOCK OPERATION WITH UFBN.
9. INTERCONNECT FAN CONTROL WITH LIGHT SWITCH.
10. MOUNT IN FLOOR BOX AT BAR ISLAND.
11. ROUTE TO I.T. CLOSET ROOM 017 FOR FUTURE USE.
12. PROVIDE ROOF JACK FOR SUDDENLIIK CABLE SERVICE. COORDINATE WITH CABLE PROVIDER.
13. REPLACE EXISTING KITCHEN HOOD WITH NEW. RECONNECT NEW KITCHEN HOOD AS SHOWN. COORDINATE WITH MECHANICAL.
14. COORDINATE FINAL LOCATION OF DISPOSAL WITH PLUMBING PLANS.

GENERAL NOTES

1. CONNECT RECEPTACLES TO CIRCUIT INDICATED USING 1/2"C-2#12,1#12G UNLESS OTHERWISE INDICATED.
2. ROUTE 3/4"C-EMPTY FROM PHONE AND DATA BOXES TO ACCESSIBLE CEILING SPACE.

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Sheet Title
BASEMENT ELECTRICAL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

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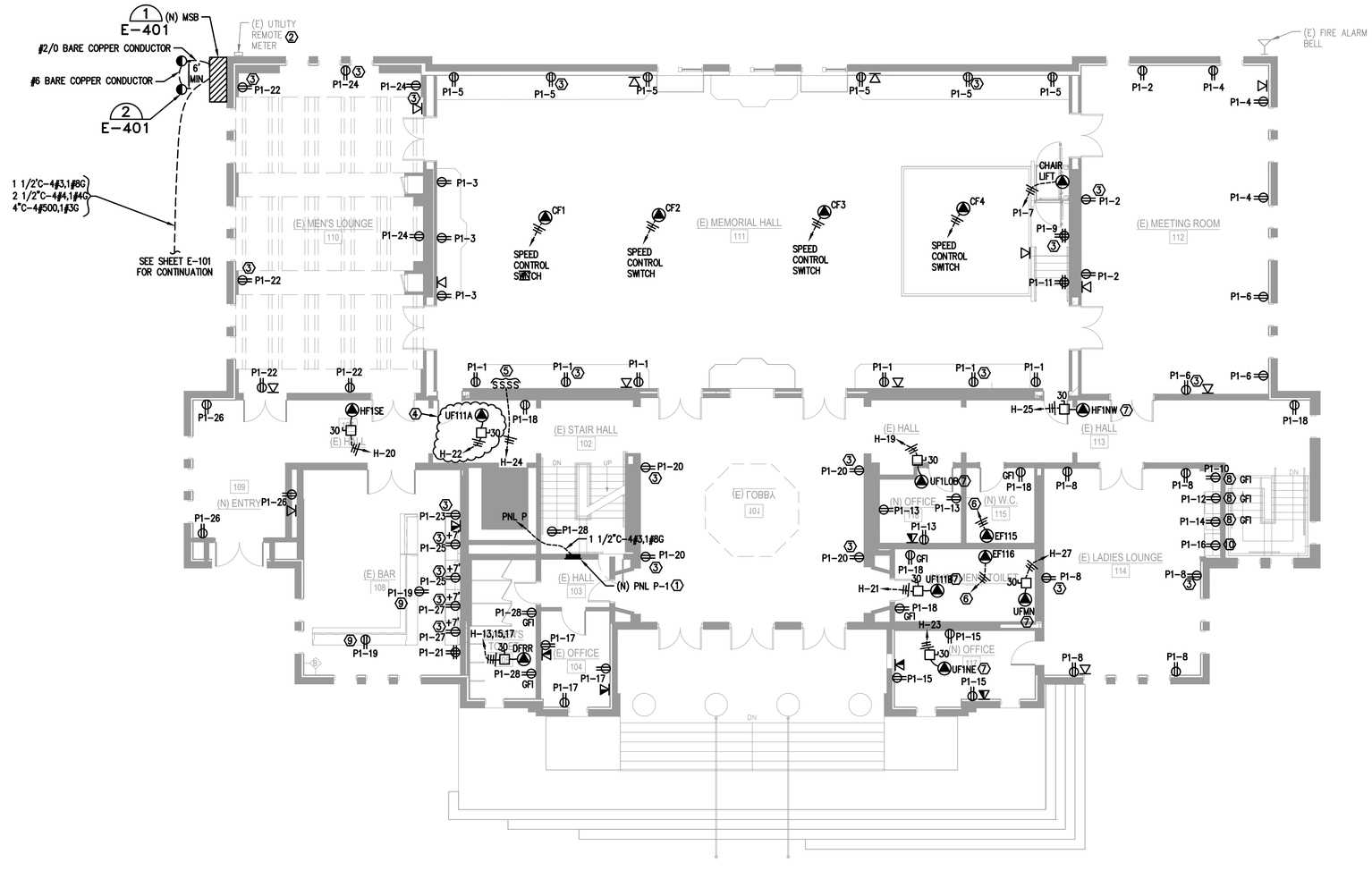

FIRST FLOOR ELECTRICAL PLAN
1/8"=1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING PANEL. REPLACE WITH NEW AS SHOWN.
2. DISCONNECT AND REMOVE UTILITY METER. COORDINATE WITH PG&E.
3. REPLACE EXISTING RECEPTACLE WITH NEW AND CONNECT TO CIRCUIT INDICATED.
4. LOCATE IN SE MECHANICAL LOFT.
5. CF1 THRU CF4 FAN SPEED CONTROL SWITCH. SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
6. CONNECT FAN TO LIGHT SWITCH CONTROL FOR ON/OFF OPERATION. SEE SHEET E-105 FOR LIGHT SWITCH LOCATIONS.
7. LOCATED IN NE MECHANICAL LOFT.
8. MOUNT 6-INCHES ABOVE COUNTER.
9. MOUNT RECEPTACLE AT BAR FOR UNDER COUNTER LIGHTING.
10. MOUNT BELOW COUNTER FOR UNDER COUNTER REFRIGERATOR. COORDINATE LOCATION.

GENERAL NOTES

1. CONNECT RECEPTACLES TO CIRCUIT INDICATED USING 1/2"C-2#12,1#12G UNLESS OTHERWISE INDICATED.
2. ROUTE 3/4"C-EMPTY FROM PHONE AND DATA BOXES TO ACCESSIBLE CEILING SPACE.

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Sheet Title: FIRST FLOOR ELECTRICAL PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

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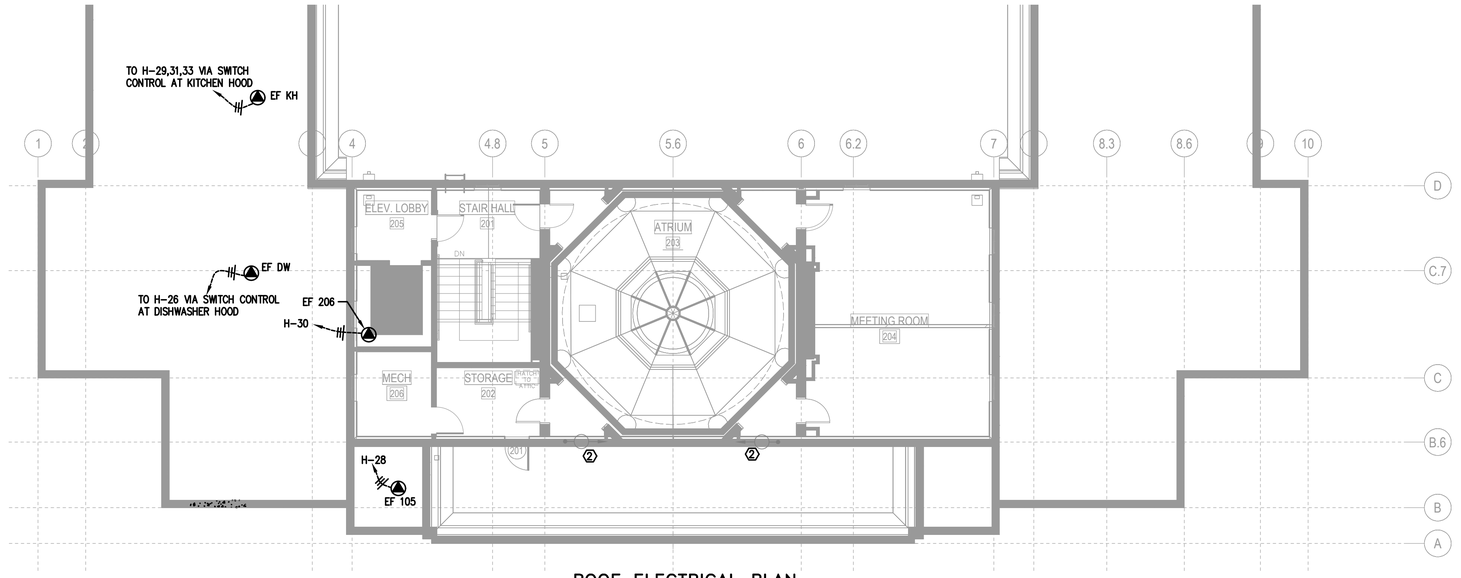
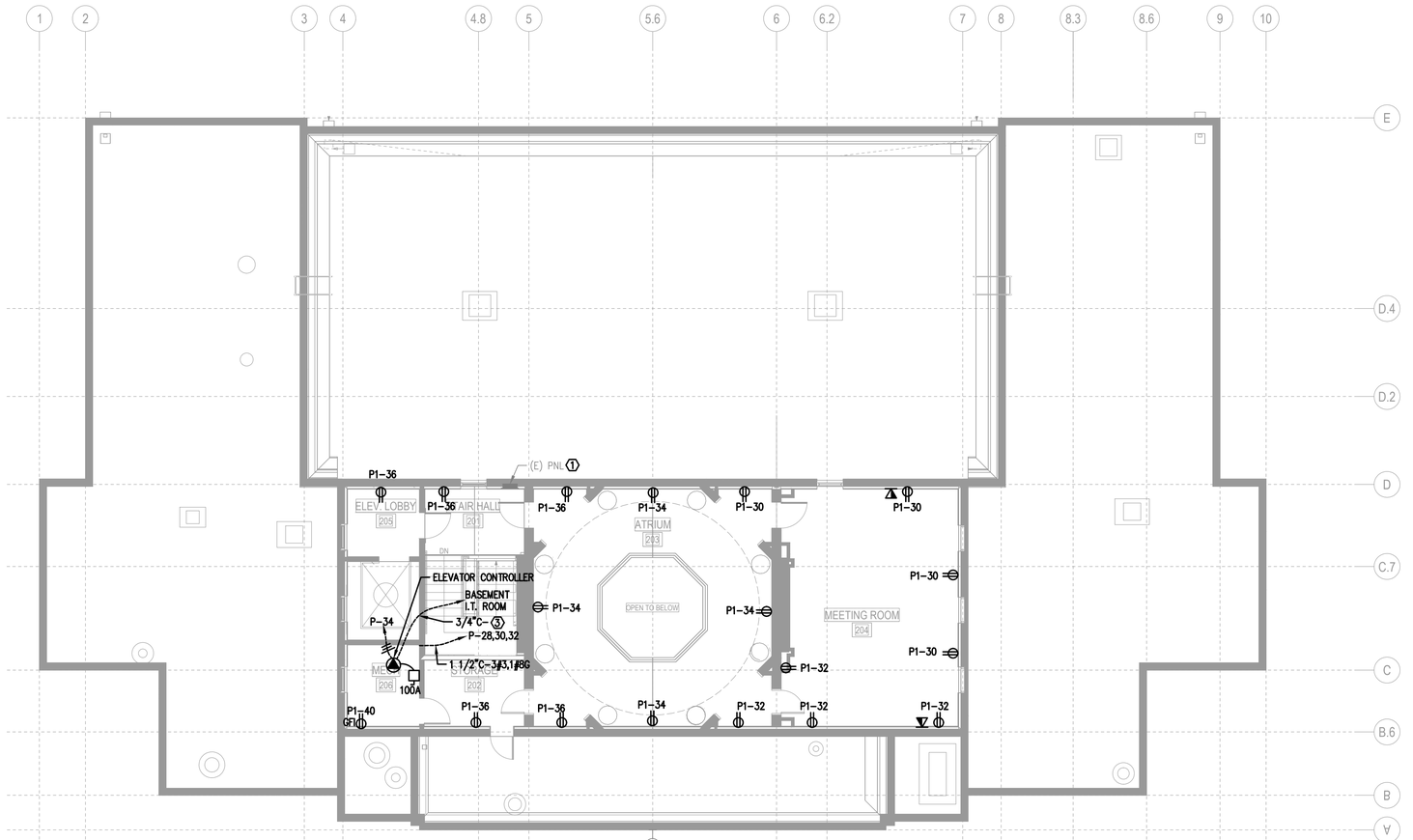


ROOF ELECTRICAL PLAN
1/8"=1'-0"



MEZZANINE ELECTRICAL PLAN
1/8"=1'-0"

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING PANEL.
2. EXISTING EXTERIOR LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED.
3. PROVIDE DEDICATED PHONE LINE FOR CONNECTION TO ELEVATOR EQUIPMENT.

KEY NOTES

1. CONNECT RECEPTACLES TO CIRCUIT INDICATED USING 1/2"C-2#12,1#12G UNLESS OTHERWISE INDICATED.
2. ROUTE 3/4"C-EMPTY FROM PHONE AND DATA BOXES TO ACCESSIBLE CEILING SPACE

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STATE OF CALIFORNIA

Sheet Title
MEZZANINE & LOWER ROOF
ELECTRICAL PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
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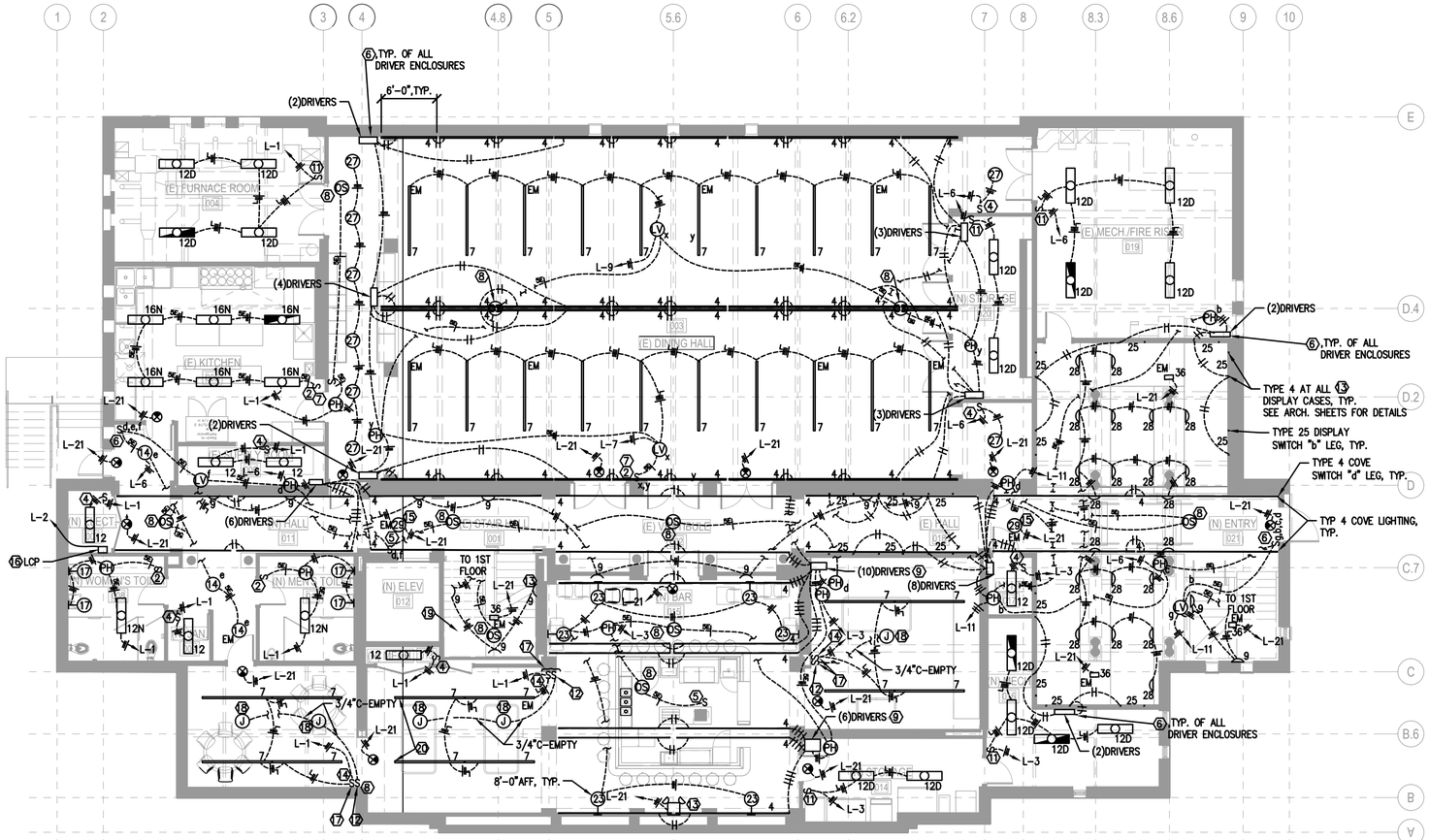

BASEMENT LIGHTING PLAN
1/8"=1'-0"

KEY NOTES

1. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE PIR MOTION, ON/OFF, DIMMING WALL POD.
2. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE PDT MOTION, ON/OFF, DIMMING WALL POD.
3. PROVIDE AND INSTALL nLIGHT ON/OFF WALL POD.
4. PROVIDE AND INSTALL SENSORSWITCH PIR MOTION ON/OFF WALL SWITCH.
5. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE ON/OFF TWO CHANNEL DIMMING WALLPOD.
6. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE ON/OFF FOUR CHANNEL DIMMING WALLPOD.
7. SET TO OCCUPANCY MODE AT MAXIMUM TIMEOUT DURATION.
8. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE PDT MOTION 360° CEILING SENSOR. SET TO OCCUPANCY MODE AT MAXIMUM TIMEOUT DURATION.
9. PROVIDE AND INSTALL LEVITON 47605 SERIES VENTED DOOR FLUSH MOUNT ENCLOSURE, SIZE AS REQUIRED FOR NUMBER OF DRIVERS. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.
10. MOUNT DRIVER INSIDE CABINETS OR UNDER THE BAR.
11. PROVIDE AND INSTALL SENSORSWITCH PDT MOTION, ON/OFF, DIMMING WALL SWITCH.
12. FEATURE SWITCH LOCATION. PROVIDE BLANK DECORA PLATE. SEE KEY NOTE 17.
13. PROVIDE AND INSTALL INTEGRAL DRIVER TO EACH DISPLAY CASE.
14. SET TO VACANCY MODE AT MAXIMUM TIMEOUT DURATION.
15. LUMINAIRE SHALL NOT BE SWITCHED ON/OFF. CIRCUIT FOR EMERGENCY EGRESS LIGHTING ONLY.
16. PROVIDE AND INSTALL ASTRONOMICAL TIME CLOCK AT THIS LOCATION. INTERMATIC E8215C OR EQUAL.
17. PROVIDE AND INSTALL 2-GANG BOX AND COVER PLATE. MAKE ONE SIDE A BLANK, THE OTHER SHALL HAVE A SWITCH AS SHOWN.
18. PROVIDE AND INSTALL CEILING SURFACE MOUNT 2-GANG JUNCTION BOX WITH COVER FOR FUTURE USE.
19. PROVIDE AND INSTALL (1) TYPE 27 IN ACCESSIBLE CRAWL SPACE UNDER STAIRS. SUPPLY 120VAC FROM NEAREST RECEPTACLE CIRCUIT OR LIGHTING CIRCUIT.
20. THERE WILL BE AN 8'-0" DROP CEILING AT THIS POINT. ADJUST LUMINAIRES SO THEY ARE 12" AWAY FROM THE 8'-0" DROP CEILING AT THIS POINT.

DEMO NOTES

1. UNLESS OTHERWISE NOTED ON PLANS, ALL LIGHTING AND LIGHTING CONTROLS SHALL BE DISCONNECTED AND REMOVED FROM THE PROJECT.
2. UNLESS OTHERWISE NOTED, CONTRACTOR MAY REUSE EXISTING SWITCH LOCATIONS. WHERE THERE ARE TWO OR MORE EXISTING SWITCH LOCATIONS IN A ROOM AND ONLY ONE NEW SWITCH LOCATION ON PLANS, THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES OF REMOVED LOCATIONS TO MATCH ADJACENT WALL SURFACES. ONLY THE SHOWN SWITCH(ES) SHALL BE INSTALLED.
3. ALL EMERGENCY EGRESS LIGHTING SHALL BE REMOVED OR REPLACED.
4. EXISTING LIGHTING LOCATIONS THAT WILL NOT BE REMOVED SHALL HAVE ANCHORS, JUNCTION BOXES OR OTHER RELATED ITEMS REMOVED AND SURFACES REPAIRED TO MATCH ADJACENT WALL OR CEILING SURFACES.

GENERAL NOTES

1. ASBESTOS ABATEMENT WILL TAKE PLACE ON THIS JOB. COORDINATE WITH GENERAL. CONTRACTOR/ARCHITECT/COUNTY FOR AREAS OF POTENTIAL ASBESTOS.

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
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EUREKA, CA 95501

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Consultant
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1730 South Street Redding, Ca. 96001

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER J. PACE
EXP: 9-30-16
No. E 012726
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title
BASEMENT LIGHTING PLAN

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

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Date 11/10/16
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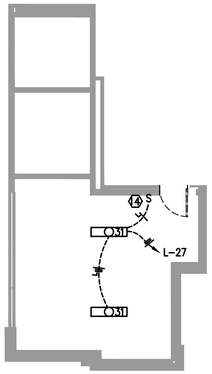
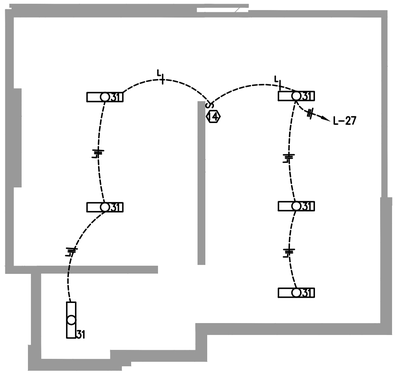
Sheet No.
E-104

Plot Date: November 17, 2016 - 4:06 pm Login Name: bewing
File Name: M:\Land Projects\247101 Eureka Vet's\DWG\E-104.dwg, Layout: E-101



SE INTERSTITIAL LIGHTING PLAN
1/8"=1'-0"



NE INTERSTITIAL LIGHTING PLAN
1/8"=1'-0"

KEY NOTES

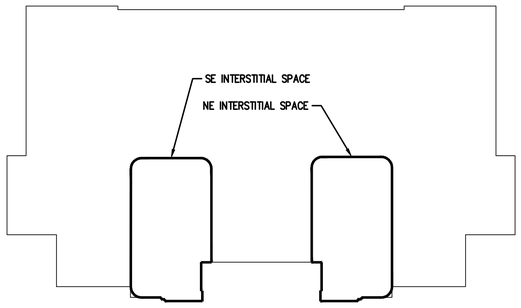
1. REMOVE EXISTING LAMPS. PROVIDE AND INSTALL (1)TYPE A LAMP AND (1)TYPE F SHADE.
2. REMOVE EXISTING LAMPS. PROVIDE AND INSTALL (8)TYPE B LAMPS AND (8)TYPE E SHADES.
3. REMOVE EXISTING LAMPS. PROVIDE AND INSTALL (2)TYPE B LAMPS AND (2)TYPE E SHADES.
4. AIM LUMINAIRE TO ILLUMINATE MEDALLION OVER DOOR.
5. NOT USED.
6. DISCONNECT AND REMOVE EXISTING LUMINAIRE. REPAIR WALL SURFACE TO MATCH EXISTING.
7. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE ON/OFF, FOUR CHANNEL, DIMMING WALLPOD.
8. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE 360° PDT CEILING SENSOR. SET SENSOR TO OCCUPANCY MODE.
9. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE PDT MOTION, ON/OFF, DIMMING WALLPOD.
10. PROVIDE AND INSTALL SENSORSWITCH PIR MOTION, ON/OFF SWITCH.
11. PROVIDE AND INSTALL SENSORSWITCH PDT MOTION, ON/OFF, DIMMING WALL SWITCH.
12. PROVIDE AND INSTALL nLIGHT ON/OFF, DIMMING WALLPOD.
13. PROVIDE AND INSTALL nLIGHT LOW VOLTAGE PDT MOTION 360° CEILING SENSOR. SET TO OCCUPANCY MODE AT MAXIMUM TIMEOUT DURATION.
14. PROVIDE AND INSTALL LUTRON 0-10V SLIDE DIMMING SWITCH WITHOUT ON/OFF CAPABILITY. INSTALL NEAR ACCESS DOOR IN THIS SPACE.
15. INSTALL EMERGENCY LIGHT DIRECTLY ABOVE WALL SCONCE. TOP OF EMERGENCY LIGHT SHALL BE 1/2" BELOW CEILING HEIGHT.
16. PROVIDE AND INSTALL NLIGHT LOW VOLTAGE, 2 CHANNEL, ON/OFF, DIMMING WALL POD.
17. THIS SECTION SHALL BE DAYLIT CONTROLLED BY INTEGRAL SENSOR DESCRIBED IN LUMINAIRE SCHEDULE.
18. THIS SECTION SHALL HAVE INTEGRAL BATTERY BACKUP AS DESCRIBED IN LUMINAIRE SCHEDULE.
19. REMOVE (E)LAMPS. PROVIDE AND INSTALL (12)TYPE D LAMPS.
20. REMOVE (E)LAMPS. PROVIDE AND INSTALL (3)TYPE D LAMPS.
21. REMOVE (E)LAMPS. PROVIDE AND INSTALL (5)TYPE B LAMPS AND (5)TYPE E SHADES.
22. REMOVE (E)LAMPS. PROVIDE AND INSTALL (1)TYPE B LAMPS AND (1)TYPE E SHADES.
23. PROVIDE AND INSTALL (4)WIRELESS FAN RECEIVERS AND (1)WIRELESS FAN SWITCH. SET THE SWITCH AND WIRELESS FAN RECEIVERS TO THE SAME ADDRESS SUCH THAT ONE SWITCH CONTROLS ALL FOUR FANS.
24. LUMINAIRE SHALL NOT BE SWITCHED ON/OFF. CIRCUIT FOR EMERGENCY EGRESS LIGHTING ONLY.

DEMO NOTES

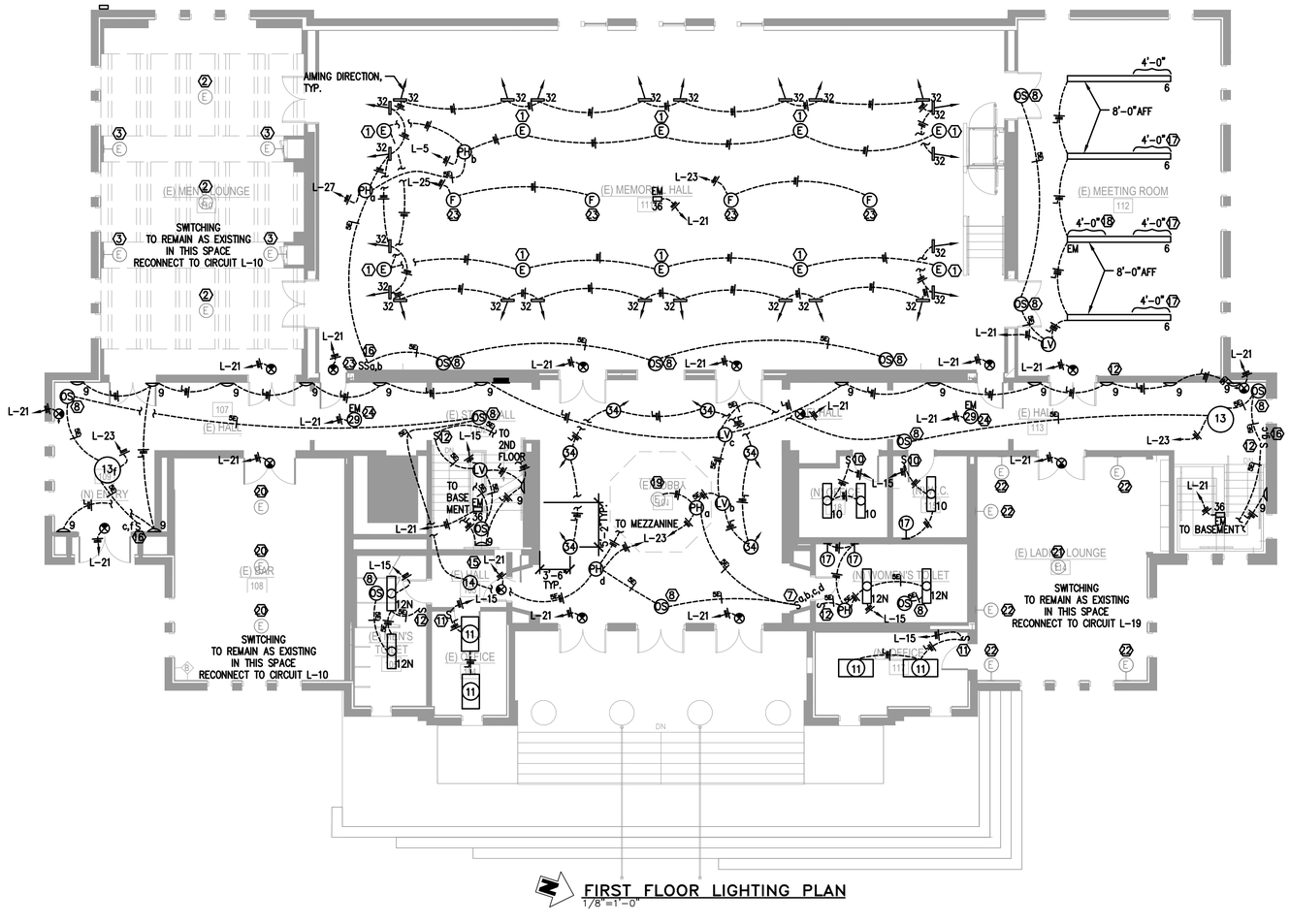
1. UNLESS OTHERWISE NOTED ON PLANS, ALL LIGHTING AND LIGHTING CONTROLS SHALL BE DISCONNECTED AND REMOVED FROM THE PROJECT.
2. UNLESS OTHERWISE NOTED, CONTRACTOR MAY REUSE EXISTING SWITCH LOCATIONS. WHERE THERE ARE TWO OR MORE EXISTING SWITCH LOCATIONS IN A ROOM AND ONLY ONE NEW SWITCH LOCATION ON PLANS, THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES OF REMOVED LOCATIONS TO MATCH ADJACENT WALL SURFACES. ONLY THE SHOWN SWITCH(ES) SHALL BE INSTALLED.
3. ALL EMERGENCY EGRESS LIGHTING SHALL BE REMOVED OR REPLACED.
4. EXISTING LIGHTING LOCATIONS THAT WILL NOT BE REMOVED SHALL HAVE ANCHORS, JUNCTION BOXES OR OTHER RELATED ITEMS REMOVED AND SURFACES REPAIRED TO MATCH ADJACENT WALL OR CEILING SURFACES.

GENERAL NOTES

1. MUCH OF THE CEILING SPACE WILL BE ACCESSIBLE DURING THE COARSE OF THIS PROJECT WHEN THE ROOF AND ROOF DECK IS REMOVED. COORDINATE WITH OTHER TRADES FOR INSTALLATION OF RECESS FIXTURES, JUNCTION BOXES, AND RACEWAYS.
2. ASBESTOS ABATEMENT WILL TAKE PLACE ON THIS JOB. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT/COUNTY FOR AREAS OF POTENTIAL ASBESTOS.



KEY PLAN
N.T.S.



FIRST FLOOR LIGHTING PLAN
1/8"=1'-0"

Design Firm
COUNTY OF HUMBOLDT
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EUREKA, CA 95501

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REGISTERED PROFESSIONAL ENGINEER
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No. E 012726
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STATE OF CALIFORNIA

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Sheet Title
FIRST FLOOR LIGHTING PLAN

Project ID
210502

No.	Date	App'r	Revision Notes

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Date 11/10/16
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Sheet No.
E-105

Plot Date: November 17, 2016 - 4:06 pm Login Name: bewing
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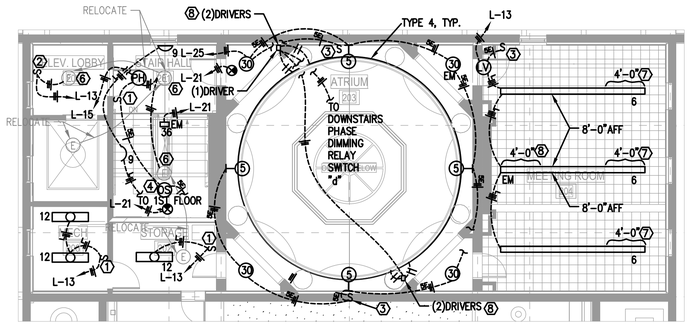
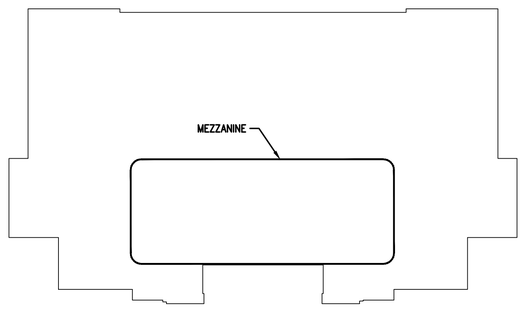


MEZZANINE LIGHTING PLAN
1/8"=1'-0"



KEY PLAN
N.T.S.

KEY NOTES

1. PROVIDE AND INSTALL SENSORSWITCH PIR MOTION, ON/OFF, DIMMING WALL SWITCH.
2. PROVIDE AND INSTALL SENSORSWITCH PIR MOTION, ON/OFF WALL SWITCH.
3. PROVIDE AND INSTALL nLIGHT PDT MOTION, ON/OFF DIMMING WALL SWITCH. SET TO OCCUPANCY MODE.
4. PROVIDE AND INSTALL NLIGHT LOW VOLTAGE PDT MOTION 360° CEILING SENSOR. SET TO OCCUPANCY MODE AT MAXIMUM TIMEOUT DURATION.
5. PROVIDE AND INSTALL SENSORSWITCH PDT MOTION, ON/OFF DIMMING WALL SWITCH.
6. PROVIDE AND INSTALL (1)TYPE A LAMP. INSTALL (1)EXISTING SHADE FROM THE VETERAN'S HALL. MAKE MODIFICATIONS NECESSARY.
7. THIS SECTION SHALL BE DAYLIT CONTROLLED BY INTEGRAL SENSOR DESCRIBED IN LUMINAIRE SCHEDULE.
8. THIS SECTION SHALL HAVE INTEGRAL BATTERY BACKUP AS DESCRIBED IN LUMINAIRE SCHEDULE.
9. PROVIDE AND INSTALL A VENTED SURFACE MOUNT ENCLOSURE ADEQUATELY SIZED TO ACCOMMODATE NUMBER OF DRIVERS. PAINT ENCLOSURE COVER TO MATCH ADJACENT SURFACES. COORDINATE FINAL LOCATION OF ENCLOSURE WITH ARCHITECT/OWNER.

DEMO NOTES

1. UNLESS OTHERWISE NOTED ON PLANS, ALL LIGHTING AND LIGHTING CONTROLS SHALL BE DISCONNECTED AND REMOVED FROM THE PROJECT.
2. UNLESS OTHERWISE NOTED, CONTRACTOR MAY REUSE EXISTING SWITCH LOCATIONS. WHERE THERE ARE TWO OR MORE EXISTING SWITCH LOCATIONS IN A ROOM AND ONLY ONE NEW SWITCH LOCATION ON PLANS, THE CONTRACTOR SHALL REPAIR EXISTING WALL SURFACES OF REMOVED LOCATIONS TO MATCH ADJACENT WALL SURFACES. ONLY THE SHOWN SWITCH(ES) SHALL BE INSTALLED.
3. ALL EMERGENCY EGRESS LIGHTING SHALL BE REMOVED OR REPLACED.
4. EXISTING LIGHTING LOCATIONS THAT WILL NOT BE REMOVED SHALL HAVE ANCHORS, JUNCTION BOXES OR OTHER RELATED ITEMS REMOVED AND SURFACES REPAIRED TO MATCH ADJACENT WALL OR CEILING SURFACES.

GENERAL NOTES

1. MUCH OF THE CEILING SPACE WILL BE ACCESSIBLE DURING THE COARSE OF THIS PROJECT WHEN THE ROOF AND ROOF DECK IS REMOVED. COORDINATE WITH OTHER TRADES FOR INSTALLATION OF RECESS FIXTURES, JUNCTION BOXES, AND RACEWAYS.
2. ASBESTOS ABATEMENT WILL TAKE PLACE ON THIS JOB. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT/COUNTY FOR AREAS OF POTENTIAL ASBESTOS.

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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER ABBOTT — EXP. 9-30-16 — No. E 012726 — ELECTRICAL — STATE OF CALIFORNIA

Sheet Title: MEZZANINE LIGHTING PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID: 210502

No.	Date	Appr	Revision Notes

Drawn: BE | Reviewed: CA
Date: 11/10/16
Scale: AS NOTED
Sheet No.: E-106

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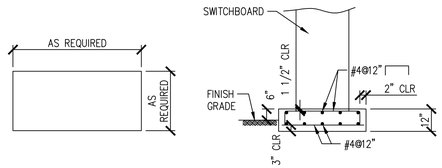
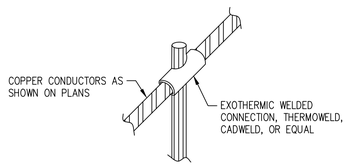


PLAN – SWITCHBOARD PAD 1
N.T.S.



CABLE TO GROUND ROD 2
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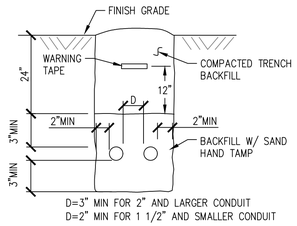

TYPICAL UNDERGROUND CONDUIT 3
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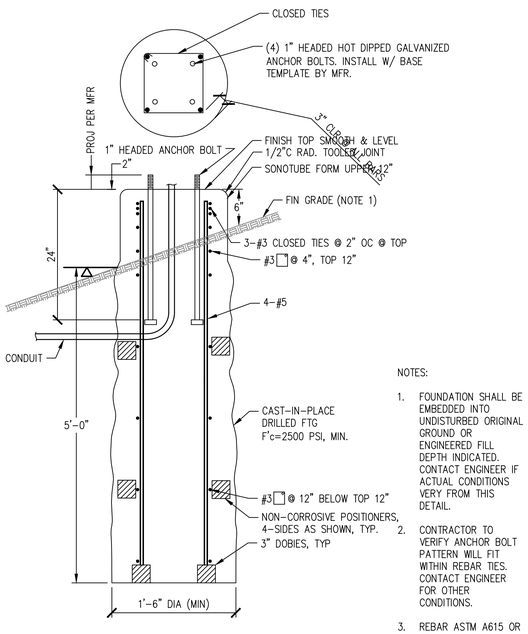
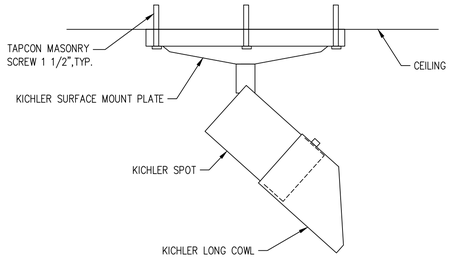


NOTES:

1. FOUNDATION SHALL BE EMBEDDED INTO UNDISTURBED ORIGINAL GROUND OR ENGINEERED FILL DEPTH INDICATED. CONTACT ENGINEER IF ACTUAL CONDITIONS VERY FROM THIS DETAIL.
2. CONTRACTOR TO VERIFY ANCHOR BOLT PATTERN WILL FIT WITHIN REBAR TIES. CONTACT ENGINEER FOR OTHER CONDITIONS.
3. REBAR ASTM A615 OR 60.

LIGHT POLE FOUNDATION 4
N.T.S.



TYPE 2 EXTERIOR SPOT LIGHT 5
N.T.S.

Design Firm
COUNTY OF HUMBOLDT
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EUREKA, CA 95501

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1730 South Street Redding, Ca. 96001

REGISTERED PROFESSIONAL ENGINEER
CHRIS A. ABRAHAMSEN
EXP: 9-30-16
No. E 012726
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title
ELECTRICAL DETAILS

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
A.P.N.: 005-023-002

Project ID
210502

No.	Date	Appr	Revision Notes

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Date 11/10/16
Scale AS NOTED
Sheet No.
E-401

Plot Date: November 17, 2016 - 4:07 pm Login Name: bewing
File Name: M:\Land Projects\247101 Eureka Vet's\DWG\E401.dwg, Layout: E-401

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Eureka Memorial Veterans Building
1018 H St., Eureka
APN 005-023-002,

Project Designer:

Humboldt County Public Works
1106 2nd Street
Eureka, CA 95501
707.445.7491

Report Prepared by:

Anne M. McQueeney CEA, CEPE
ABBAY TECHNICAL SERVICES
1125 16th Street, Ste. 216
Arcata, CA 95521
707.826.1433

Job Number:

15014

Date:

3/31/2016

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2013 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

NOTE: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 116-A and Table 116B. Site-built fenestration less than 1,000 ft², or more than or equal to1,000 ft² see Reference Nonresidential Appendix NA6.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
			Fenestration						Overhang				
			U-Factor		SHGC		VT		Dimensions			Calculated	
Tag/ID	Window Type (e.g., Window-1)	Surface Area	Proposed	Allowed	Proposed	Allowed	Proposed	Allowed	H	V	H/V	(R)SHGC Proposed	Max (R)SHGC Allowed
1	Window	66	0.450	0.470	0.350	0.410	0.500	0.32					
2	Window	224	0.580	0.580	0.650	0.650	0.500	0.78					
3	Window	211	0.580	0.580	0.650	0.650	0.500	0.78					
4	Window	44	0.450	0.470	0.350	0.410	0.500	0.32					

B. WEST WINDOW AREA CALCULATION See §140.3(a)5A in the Energy Standards

A. **Gross West** Exterior Wall Area	4,366	ft² × 0.40 =	1,746 ft²	40% of **Gross West Facing** Exterior Wall Area; or
B. **West** Display Linear Perimeter	0	FT × 6 ft =	0 ft²	**West** Display Perimeter Area
C. Enter Larger of A or B			1,746 ft²	Maximum Standard **West** Area
D. Enter Proposed **West** Window Area			255 ft²	Proposed **West** Window Area

*Note: If the PROPOSED **WEST** WINDOW AREA is greater than the MAXIMUM STANDARD **WEST** AREA then the envelope component approach may not be used.*

C. WINDOW AREA CALCULATION for all other orientations other than West - See §140.3(a)5A in the Energy Standards

E. Gross Exterior Wall Area	9,873	ft² × 0.40 =	3,949 ft²	40% of Gross Exterior Wall Area or
F. Linear Display Perimeter	0	FT × 6 ft =	0 ft²	Display Perimeter Area
G. Enter The Larger of E or F			3,949 ft²	Maximum Standard Area
H. Enter Proposed Window Area			987 ft²	Proposed Window Area

Note: If the PROPOSED WINDOW AREA is greater than the MAXIMUM STANDARD AREA then the envelope component approach may not be used.

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

Tag/ID	Window Type	Surface Area	U-Factor Proposed	U-Factor Allowed	SHGC Proposed	SHGC Allowed	VT Proposed	VT Allowed	H	V	H/V	(R)SHGC Proposed	Max (R)SHGC Allowed
5	Window	17	0.450	0.470	0.350	0.410	0.500	0.32					
6	Window	36	0.450	0.470	0.350	0.410	0.500	0.32					
7	Window	226	0.580	0.580	0.650	0.650	0.500	0.78					
8	Window	197	0.580	0.580	0.650	0.650	0.500	0.78					

B. WEST WINDOW AREA CALCULATION: A. 4,366 ft² × 0.40 = 1,746 ft²; B. 0 FT × 6 ft = 0 ft²; C. 1,746 ft²; D. 255 ft².

C. WINDOW AREA CALCULATION for all other orientations other than West: E. 9,873 ft² × 0.40 = 3,949 ft²; F. 0 FT × 6 ft = 0 ft²; G. 3,949 ft²; H. 987 ft².

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

Tag/ID	Window Type	Surface Area	U-Factor Proposed	U-Factor Allowed	SHGC Proposed	SHGC Allowed	VT Proposed	VT Allowed	H	V	H/V	(R)SHGC Proposed	Max (R)SHGC Allowed
9	Window	120	0.990	0.990	0.740	0.740	0.500	0.88					
10	Window	45	1.040	1.040	0.760	0.760	0.500	0.91					
11	Skylight	50	1.470	1.470	0.760	0.760	0.500	0.91					
12	Window	42	0.320	0.460	0.350	0.220	0.500	0.32					

B. WEST WINDOW AREA CALCULATION: A. 4,366 ft² × 0.40 = 1,746 ft²; B. 0 FT × 6 ft = 0 ft²; C. 1,746 ft²; D. 255 ft².

C. WINDOW AREA CALCULATION for all other orientations other than West: E. 9,873 ft² × 0.40 = 3,949 ft²; F. 0 FT × 6 ft = 0 ft²; G. 3,949 ft²; H. 987 ft².

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. WINDOWS DETAILS Worksheet *§140.3(a)5B and C*

Tag/ID	Window Type	Surface Area	U-Factor Proposed	U-Factor Allowed	SHGC Proposed	SHGC Allowed	VT Proposed	VT Allowed	H	V	H/V	(R)SHGC Proposed	Max (R)SHGC Allowed
13	Window	15	0.320	0.460	0.350	0.220	0.500	0.32					

B. WEST WINDOW AREA CALCULATION: A. 4,366 ft² × 0.40 = 1,746 ft²; B. 0 FT × 6 ft = 0 ft²; C. 1,746 ft²; D. 255 ft².

C. WINDOW AREA CALCULATION for all other orientations other than West: E. 9,873 ft² × 0.40 = 3,949 ft²; F. 0 FT × 6 ft = 0 ft²; G. 3,949 ft²; H. 987 ft².

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

D. SKYLIGHT AREA CALCULATION See §143(a)6A in the Energy Standards

	ACTUAL GROSS ROOF AREA		STANDARD ALLOWED SKYLIGHT AREA
A IF Atrium/Skylight Height is ≤ 55 ft; **or**	10,389	ft² × 0.05 =	519 ft²
B. IF Atrium/Skylight Height is > 55 ft		ft² × 0.10 =	ft²
C. Proposed Skylight Area (from plans)		50 ft²	
D. Skylight SSR %[1, 2] = Proposed Skylight Area Divided by Actual Gross Roof Area =		0.5 %	

1. If the SKYLIGHT SSR % is less than or equal to 5% then choose the appropriate column in Table 140.3-B and C and row in Table 140.3-D.
2. If the SKYLIGHT SSR % is greater than 5% then the Envelope Component Approach may not be used.

E. RELOCATABLE PUBLIC SCHOOL BUILDINGS - See Section140.3(a)8 in the Energy Standards

Option 1	
☐ For Specific Climate Zone, use Table 140.3-B - Prescriptive Envelope Criteria.	☐ Specific Climate Zone Metal Identification Label – Place two labels on each relocatable school building and indicate on the building plans.
	Indicate location from the building plans:
Option 2	
☐ For Any (All) Climate Zone, use Table 140.3-D - Prescriptive Envelope Criteria.	☐ Any (All) Climate Zone Metal Identification Label - Place two labels on each relocatable school building and indicate on the building plans.
	Indicate location from the building plans:

STATE OF CALIFORNIA

FENESTRATION WORKSHEET

CEC-NRCC-ENV-02-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-02-E
Fenestration Worksheet	(Page 3 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company : Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA

AREA WEIGHTED AVERAGE CALCULATION WORKSHEET

CEC-NRCC-ENV-06-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-06-E
Area Weighted Average Calculation Worksheet	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date 3/31/2016

This worksheet is used to calculate the area weighted-average values for a building envelope features such as, walls, roofs, floors, mass, and fenestration/glazing U-factors, Relative Solar Heat Gain Coefficient (RSHGC) or Visible Transmittance (VT) for the prescriptive compliance approach. R-values can never be area weighted averaged. Only U-factors, SHGC, RSHGC or VT can be used. When a window has an overhang, calculate the RSHGC first (see Equation 140.3-A), then determine the weighted average if need be.

Weighted averaging is used when there is more than one level of insulation or more than one type of window and one or more type of fenestration which would not meet prescriptive compliance requirements. Each fenestration type (e.g., vertical windows, skylights, dynamic glazing, and window films) are treated independently or cannot be combined. Weight averaging is not allowed for chromogenic glazing.

A. Area Weighted Average Calculation

Item/Tag No.	Type 1 Value[1]	Type 1 Area[2]	Type 2 Value[1]	Type 2 Area[2]	Type 3 Value[1]	Type 3 Area[2]	Total Area	Area Weighted Average Value[3]
VFUa	(0.470)	(162)	(0.460)	(57)	( )	( )	219	0.467
VFUp	(0.450)	(162)	(0.320)	(57)	( )	( )	219	0.416
VFSa	(0.410)	(162)	(0.220)	(57)	( )	( )	219	0.361

1. *"Value" can be replaced throughout the formula by "U-factor", "Relative Solar Heat Gain Coefficient, Visible Transmittance" or any other value that varies throughout Nonresidential and is appropriate to weight average. Mixture of different units not allowed.*
2. *"Area" can be replaced throughout the formula by "Length" or any other unit of measure used for the value being averaged. Mixture of different units not allowed.*
3. *Enter the above Weighted Average Value on the NRCC-ENV-01-E and NRCC-ENV-02-E form and attach this sheet.*

Area Weighted Averages	Tag	Allowed	Tag	Proposed	Complies
Vertical Fenestration U-Factor	VFUa	0.467	VFUp	0.416	YES
Vertical Fenestration SHGC	VFSa	0.361	VFSp	0.350	YES
Vertical Fenestration VT	VFVa	0.320	VFVp	0.500	YES
Skylight U-Factor	SUa	n/a	SUp	n/a	
Skylight SHGC	SSa	n/a	SSp	n/a	
Skylight VT	SVa	n/a	SVp	n/a	
Wall U-Factor	WUa	n/a	WUp	n/a	
Roof U-Factor	RUa	0.082	RUp	0.082	YES
Door U-Factor	DUa	n/a	DUp	n/a	
Floor U-Factor	FUa	n/a	FUp	n/a	

STATE OF CALIFORNIA

AREA WEIGHTED AVERAGE CALCULATION WORKSHEET

CEC-NRCC-ENV-06-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ENV-06-E
Area Weighted Average Calculation Worksheet	(Page 2 of 2)
Project Name: Eureka Memorial Veterans Building	Date 3/31/2016

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Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable):
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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company : Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name: *Eureka Memorial Veterans Building*   Date: *3/31/2016*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 1 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. General Information

Project Address: 1018 H St., Eureka		Climate Zone: 1	Conditioned Floor Area : 23,080 / Unconditioned Floor Area : 0
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration

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STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 2 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

B. Electrical Service Metering

☐ Each newly installed electrical service (in both existing and newly constructed buildings) is required to be metered, as set out in Table 130.5-A, which is reproduced below.
☐ Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule — Designation/location in building/description (A)	Electrical Service Rating — kVA (B)	Instantaneous (at the time) kW demand (C)	Historical peak demand (kW) (D)	Resettable kWh (E)	kWh per rate period (F)	Field Inspector Pass (G)	Field Inspector Fail (G)
>50 and <250	183	☑	☐	☑	☐	☐	☐

Table 130.5-A - MINIMUM REQUIREMENTS FOR METERING OF ELECTRICAL LOAD

Meter Rating (kVA)	50 kVA or less	More than 50kVA and less than or equal to 250 kVA	More than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Instantaneous (at the time) kW demand	Required	Required	Required	Required
Historical peak demand (kW)	Not required	Not required	Required	Required
Resettable kWh	Required	Required	Required	Required
kWh per rate period	Not required	Not required	Not required	Required

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STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 3 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C. Disaggregation of Electrical Circuits

☐ Each newly installed switchboard, panel, and motor control center (in both existing and newly constructed buildings) is required to be disaggregated according to the requirements of Table 130.5-B, shown on the next page.
☐ Individual branch circuits, taps or disconnects that require overcurrent protection devices rated 60A or greater.
☐ As an alternative, current transformers can be added for individual branch circuits and loads throughout the building, and a permanent measurement system can be installed. In this case, disaggregated wiring would not be required as long as the metering system allows the equivalent disaggregated measurements.
☐ Fill out a separate line for each switchboard, motor control center, panelboard and subpanel.

Switchboard, motor control center, panelboard or subpanel — Designation/location in building/description (A)	Electrical Service that supplies that switchboard or panel — Designation/location in building/description (B)	Electrical Service Rating — kVA (C)	Field Inspector Pass (D)	Field Inspector Fail (D)
RECEPT@KITCH+DIN/WATER HEAT	PANEL #P	83	☐	☐
HVAC	PANEL #H	47	☐	☐
LIGHTING	PANEL #L	21	☐	☐
RECEPT@BAR/OFF/MEZZ	PANEL #P1	21	☐	☐

OR

Current transformers have been attached to individual branch circuits and loads throughout the building, and a permanent measurement system is installed that allows an equivalent degree of disaggregated measurement as required by the Standards.. ☐ ☐

STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 4 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

D. Disaggregation of Electrical Circuits (continued)

Table 130.5-B - MINIMUM REQUIREMENTS FOR SEPARATION OF ELECTRICAL LOAD

Table 130.5 – B sets the upper limit on how many load(s) of each type can be supplied by each feeder. A feeder may not supply loads of more than one type unless the service is rated at 50 kVA or less. For instance, on the fifth row of the table, one feeder on a service >50 kVA could be used to supply all the plug loads on a floor of a building, provided that there are no areas in which more than 25kVA of plug load is supplied to a space less than 5000sf

Load Type	Services rated 50 kVA or less	Services rated more than 50kVA and less than or equal to 250 kVA	Services rated more than 250 kVA and less than or equal to 1000kVA	Services rated more than 1000kVA
Lighting including exit and egress lighting and exterior lighting	Not required	All lighting in aggregate	All lighting disaggregated by floor, type or area	All lighting disaggregated by floor, type or area
HVAC systems and components including chillers, fans, heaters, furnaces, package units, cooling towers, and circulation pumps associated with HVAC	Not required	All HVAC in aggregate	All HVAC in aggregate and each HVAC load rated at least 50 kVA	All HVAC in aggregate and each HVAC load rated at least 50kVA
Domestic and service water system pumps and related systems and components	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Plug load including appliances rated less than 25 kVA	Not required	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug load separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	All plug loads separated by floor, type or area. All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf
Elevators, escalators, moving walks, and transit systems	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Other individual non-HVAC loads or appliances rated 25kVA or greater	Not required	All	Each	Each
Industrial and commercial load centers 25 kVA or greater including theatrical lighting installations and commercial kitchens	Not required	All	Each	Each
Renewable power source (net or total)	Each group	Each group	Each group	Each group
Loads associated with renewable power source	Not required	All loads in aggregate	All loads in aggregate	All loads in aggregate
Charging stations for electric vehicles	All loads in aggregate	All loads in aggregate	All loads in aggregate	All loads in aggregate

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STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)   CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 5 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

E. Voltage Drop

☐ Attach voltage drop worksheet to this form,
☐ Field inspector has discretion to approve the worksheets; the tables shown below in this section are advisory only
☐ Feeder conductors and branch circuits that are dedicated to emergency services are exempt from these requirements.
☐ An advisory table of typical power factors is shown below

	Field Inspector Pass	Field Inspector Fail
Feeders. Feeder conductors shall be sized for a maximum voltage drop of 2 percent at design load.	☐	☐
Branch Circuits. Branch circuit conductors shall be sized for a maximum voltage drop of 3 percent at design load.	☐	☐

Compliance Manual, Chapter 8, Table 8 2: Typical Power Factors for Voltage Drop Calculations

Load Type	Default Power Factor at 120 volts	Default Power Factor at 277 volts	Clarifying Notes
Fluorescent lighting	0.95	0.95	
Compact fluorescent lighting	0.9 (hardwired) 0.5 (GU-24)	0.9 (hardwired) 0.3 (GU-24)	NPF magnetic ballasts use GU-24 values
LED lighting	0.7	0.5	May be higher if specifications call for high power factor drivers
Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

Design Firm

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

CABEC — California Association of Building Energy Consultants — CERTIFIED ENERGY ANALYST — Anne McQueeney R13-01-10025 NR13-01-10010

Abbay Technical Services
Building Energy Consultants
Anne M. McQueeney, CEA
1125 16th St., Ste. 216 Arcata, CA 95521
707.826.1433
anny@abbaytechnicalservices.com

Sheet Title

TITLE 24 BUILDING ENERGY REPORT

Project Title

EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn	Reviewed
Date	
Scale	
Sheet No.	

T-1

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 09/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 6 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

F. Circuit Controls for 120-Volt Receptacles

☑ Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.
☐ In open office areas, controlled circuit receptacles are not required if: at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.
☐ Receptacles that are only for the following purposes are exempt;
-Receptacles specifically for refrigerators and water dispensers in kitchenettes.
-Receptacles located a minimum of six feet above the floor that are specifically for clocks.
-Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

		Field Inspector	
		Pass	Fail
1.	At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: • Private offices, open-office areas • Receptions and lobbies • Conference rooms • Kitchenettes in office spaces • Copy room	☐	☐
2.	Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space).	☐	☐
3.	Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.	☐	☐
4.	For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.5(d) 1, 3, and 3.	☐	☐
5.	For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles that comply with Section 130.5(d)1, 2, and 3 (see numbers 1,2 and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacatec, power is switched off.	☐	☐
6.	Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 09/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	(Page 7 of 7)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. General Information

Climate Zone: 1	Conditioned Floor Area: 23,080				
	Unconditioned Floor Area: 0				
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☑ New Construction	☐ Addition	☑ Alteration		
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored		

Project Address: 1018 H St., Eureka

B. Lighting Compliance Documentations (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
✓		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
✓		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for al submittals.
✓		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	✓	NRCC-LTI-04-E	Tailored Method Worksheets
	✓	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance.

	Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
		Watts			Watts	
1.	**Installed** Lighting NRCC-LTI-02-E, page 4	15,689	+	**Installed** Lighting NRCC-LTI-02-E, page 5	0	+
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-02-E, page 5		+			+
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 5	0	=	Minus Lighting Control Credits NRCC-LTI-02-E, page 5	0	=
4.	Adjusted **Installed** Lighting Power (line 1 plus line 2 minus line 3)	15,689	=	Adjusted **Installed** Lighting Power (line 1 minus line 3)	0	=
5.	Complies ONLY if **Installed** ≤ **Allowed**			Complies ONLY if **Installed** ≤ **Allowed**		
6.	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1	24,890		**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1	0	

D. Declaration of Required Installation Certificates

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
✓		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
	✓	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	✓	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
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E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
✓		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
✓		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
	✓	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

☑ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
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G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §101.). All other planned portable luminaires shall be documented on next page of this compliance form.
☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule								Office Location	Field Inspector	
1	2	3	4	5	6	7	8	9	10	
Complete Luminaire Description (i.e., LED, under-cabinet, furniture mounted direct/indirect)	Watts per luminaire	Number of Luminaires	Installed portable luminaire watts in this office (002 x 003)	Square foot of this office	Watts per square foot (004 / 005)	If 0.0-0.3, enter zero; If 0.03 < 0.3, (006-0.3)	G05 x G07	Identify Office area in which these portable luminaires are installed	Pass	Fail
									☐	☐
									☐	☐
									☐	☐
									☐	☐
									☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.001Stair	5=LED Sconce 17.5W	17.5	☐	☑	4	70	Corridor/Restroom/Support	☐	☐
.002Vest	27ft 4x1 FTap 5W/in ft	81.0	☐	☑	2	162	Corridor/Restroom/Support	☐	☐
.009Vest	5=LED Sconce 17.5W	17.5	☐	☑	2	35	Corridor/Restroom/Support	☐	☐
.003Dinin	7=8ft 1-LED 86W	88.0	☐	☑	20	1,760	Dining	☐	☐
.005Dinin	Type 2=6=8ft LED 30W	30.0	☐	☑	40	1,200	Dining	☐	☐
.003Dinin	27 4=LED Tape 14.4W/in ft	14.4	☐	☑	8	115	Dining	☐	☐
.002Dinin	10=2x4 LED Wrap Arnd 41W	41.0	☐	☑	2	82	Dining	☐	☐
.004Furni	10=2x4 LED Wrap Arnd 41W	41.0	☐	☑	4	164	Electrical, Mechanical Room	☐	☐
.005Kitchi	16=2x4 LED Wrap Arnd 47W	47.0	☐	☑	6	282	Kitchen, Food Preparation	☐	☐
			INSTALLED WATTS PAGE TOTAL:			3,870	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.018Hall	29ft=LED 2.4W @ 2.5 ft	6.0	☐	☑	16	96	Corridor/Restroom/Support	☐	☐
.019Hall	36=LED.4W	4.0	☐	☑	21	84	Corridor/Restroom/Support	☐	☐
.019Stair	12D=2x4 LED Wrap Arnd 41W	41.0	☐	☑	4	164	Commercial, Industrial Storage	☐	☐
.101Lobb	4 Lamp Chandelier 450W	450.0	☐	☑	1	450	Lobby, Main Entry	☐	☐
.101Lobb	34=LED 20W	20.0	☐	☑	6	120	Lobby, Main Entry	☐	☐
.102Stair	9=LED Sconce 17.5W	17.5	☐	☑	3	53	Corridor/Restroom/Support	☐	☐
.103Hall	14=6in LED 23.5W	23.5	☐	☑	1	24	Corridor/Restroom/Support	☐	☐
.104Office	11=7x4 LED Surf Mt 40W	40.0	☐	☑	2	80	Office <= 250 sqft	☐	☐
.105Mech	12N=2x4 LED Wrap Arnd 41W	41.0	☐	☑	2	82	Corridor/Restroom/Support	☐	☐
			INSTALLED WATTS PAGE TOTAL:			1,152	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.107Hall	9=LED Sconce 17.5W	17.5	☐	☑	3	53	Corridor/Restroom/Support	☐	☐
.108Bar	11=Lamp Hanging Fixture 75W	75.0	☐	☑	3	225	Bar, Cocktail Lounge, Casino	☐	☐
.109Entry	13=LED Pendant 97.8W	97.8	☐	☑	1	98	Lobby, Main Entry	☐	☐
.109Entry	9=LED Sconce 17.5W	17.5	☐	☑	4	70	Lobby, Main Entry	☐	☐
.110Mem	8=Lamp Chandelier 600W	600.0	☐	☑	3	1,800	Lounge, Recreation	☐	☐
.110Mem	2=Lamp Wall Sconce 150W	150.0	☐	☑	4	600	Lounge, Recreation	☐	☐
.111Mem	1=Lamp Pendant 75W	75.0	☐	☑	10	750	Convention/Conference/Meeting	☐	☐
.111Mem	10=LED.24W	24.0	☐	☑	24	576	Convention/Conference/Meeting	☐	☐
.113Mem	6=LED 153W/ft	153.0	☐	☑	4	612	Convention/Conference/Meeting	☐	☐
			INSTALLED WATTS PAGE TOTAL:			4,783	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.113Hall	13=LED Pendant 97.8W	97.8	☐	☑	1	98	Corridor/Restroom/Support	☐	☐
.113Hall	8=LED Sconce 17.5W	17.5	☐	☑	5	88	Corridor/Restroom/Support	☐	☐
.114Lobb	1 Lamp Wall Sconce 75W	75.0	☐	☑	6	450	Lobby, Main Entry	☐	☐
.114Lobb	5 Lamp Chandelier 375W	375.0	☐	☑	1	375	Lounge, Recreation	☐	☐
.115WC	10=1x4 Surf Mt 34W	34.0	☐	☑	1	34	Corridor/Restroom/Support	☐	☐
.116Wom	17=LED Vanity 24W	24.0	☐	☑	2	48	Corridor/Restroom/Support	☐	☐
.116Wom	12N=2x4 LED Wrap Arnd 41W	41.0	☐	☑	2	82	Corridor/Restroom/Support	☐	☐
.117Office	11=7x4 LED Surf Mt 40W	40.0	☐	☑	2	80	Office <= 250 sqft	☐	☐
.118Office	10=1x4 Surf Mt 34W	34.0	☐	☑	1	34	Office <= 250 sqft	☐	☐
			INSTALLED WATTS PAGE TOTAL:			1,288	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.016Mech	12D=2x4 LED Wrap Arnd 41W	41.0	☐	☑	4	164	Electrical, Mechanical Room	☐	☐
.017T	12=2x4 LED Wrap Arnd 41W	41.0	☐	☑	1	41	Office <= 250 sqft	☐	☐
.018Entry	29ft=LED 2.4W @ 2.5 ft	6.0	☐	☑	2	12	Lobby, Main Entry	☐	☐
.018Entry	9=LED Sconce 17.5W	17.5	☐	☑	2	35	Lobby, Main Entry	☐	☐
.018Hall	20ft 4=LED Tape 3W/in ft	60.0	☐	☑	1	60	Corridor/Restroom/Support	☐	☐
.018Hall	20ft 4=LED Tape 3W/in ft	60.0	☐	☑	1	60	Corridor/Restroom/Support	☐	☐
.018Hall	33ft 4=LED Tape 3W/in ft	99.0	☐	☑	1	99	Corridor/Restroom/Support	☐	☐
.018Hall	33ft 4=LED Tape 3W/in ft	99.0	☐	☑	1	99	Corridor/Restroom/Support	☐	☐
.018Hall	9=LED Sconce 17.5W	17.5	☐	☑	2	35	Corridor/Restroom/Support	☐	☐
			INSTALLED WATTS PAGE TOTAL:			605	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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INDOOR LIGHTING
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
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Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
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H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
.015Bar	27ft 4x1 FTap 5W/in ft	81.0	☐	☑	5	405	Bar, Cocktail Lounge, Casino	☐	☐
.015Bar	7=8ft LED 88W	88.0	☐	☑	12	1,056	Bar, Cocktail Lounge, Casino	☐	☐
			INSTALLED WATTS PAGE TOTAL:			2,225	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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INDOOR LIGHTING
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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
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A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
A	B	C	D		E	F	G	H	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default from Std.	According to §130.0(c)	Number Luminaires	Total Installed Watts (003 x 005)	Primary Function area in which these luminaires are installed	Pass	Fail
	Standard Allowance: 72 sqft at 0.600 watts/sf		☐	☐		43	Corridor/Restroom/Support	☐	☐
	Standard Allowance: 81 sqft at 0.600 watts/sf		☐	☐		49	Corridor/Restroom/Support	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			INSTALLED WATTS PAGE TOTAL:			92	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

CABEC
CERTIFIED ENERGY ANALYST
Anne M. McQueeney
CEA No. 0000016
NCE 0101-10000

Abbay Technical Services
Building Energy Consultants
Anne M. McQueeney, CEA
1125 16th St., Ste. 216 Arcata, CA 95521
707.826.1433
anne@abbaytechnicalservices.com

Design Firm

Sheet Title
TITLE 24 BUILDING ENERGY REPORT

Project Title
EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn | Reviewed
Date
Scale
Sheet No.
T-2

STATE OF CALIFORNIA

INDOOR LIGHTING

CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
	✓	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
	✓	Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	✓	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
✓		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
✓		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
✓		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
✓		The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
✓		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
✓		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
	✓	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
✓		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (K x L)		Pass	Fail
All Lights	Manual Area	1	✓										✓	☐	☐
All Lights	Multi Level	1		✓									✓	☐	☐
All Lights	Occupancy Sensor	1			✓								✓	☐	☐
All Lights	Automatic Daylighting	1				✓							✓	☐	☐
All Lights	Manual Area	1	✓										✓	☐	☐
														☐	☐
														☐	☐

Control Credit PAGE TOTAL (Sum of Column M): 0

IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M): 0

Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA

INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		24,890
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		24,890

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

1	2		3		4
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft²)	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E)	Watts
Total from section C-2	24,890
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	24,890

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER (ft²)	X	AREA (ft²)	=	WATTS
*005 Kitchen	Kitchen, Food Preparation	1.60		495		792
*006 Supply Rm	Commercial, Industrial Storage	0.60		104		62
*110 Men's Lounge	Lounge, Recreation	1.10		1,060		1,166
*003 Dining Hall	Dining	1.10		3,428		3,771
*004 Furnace Rm	Electrical, Mechanical Room	0.70		431		302
*013 Storage	Commercial, Industrial Storage	0.60		41		25
*014 Storage	Commercial, Industrial Storage	0.60		261		157
*015 Bar	Bar, Cocktail Lounge, Casino	1.10		1,985		2,184
*016 Mech.	Electrical, Mechanical Room	0.70		233		163
*017 IT	Office <= 250 sqft	1.00		36		36
*002 Vestibule	Corridor/Restroom/Support	0.60		290		174
*018 Entry	Lobby, Main Entry	1.50		266		399
*018 Hall	Corridor/Restroom/Support	0.60		1,150		690
*019 Storage	Commercial, Industrial Storage	0.60		595		357
*001 Stair/Hall	Corridor/Restroom/Support	0.60		246		148
*007 Elect.	Electrical, Mechanical Room	0.70		42		29
		TOTALS		10,663		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						10,454 WATTS

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER (ft²)	X	AREA (ft²)	=	WATTS
*008 Women	Corridor/Restroom/Support	0.60		162		97
*009 Jan.	Commercial, Industrial Storage	0.60		29		17
*10 Men	Corridor/Restroom/Support	0.60		143		86
*011 Hall	Corridor/Restroom/Support	0.60		476		286
*012 Elevator	Corridor/Restroom/Support	0.60		72		43
*103 Hall	Corridor/Restroom/Support	0.60		71		43
*104 Office	Office <= 250 sqft	1.00		134		134
*105 Men	Corridor/Restroom/Support	0.60		181		109
*106 Storage	Commercial, Industrial Storage	0.60		33		20
*SE Mech./Interstitchal Space	Electrical, Mechanical Room	0.70		205		144
*111 Memorial Hall	Convention/Conference/Meeting	1.40		3,294		4,612
*112 Meeting Rm.	Convention/Conference/Meeting	1.40		1,060		1,484
*113 Hall/Stairs	Corridor/Restroom/Support	0.60		469		281
*114 Ladies' Lounge	Lounge, Recreation	1.10		596		656
*116 Women	Corridor/Restroom/Support	0.60		196		118
*117 Office	Office <= 250 sqft	1.00		206		206
		TOTALS		7,327		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						8,334 WATTS

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B		C		D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER (ft²)	X	AREA (ft²)	=	WATTS
*NE Mech./Interstitchal Space	Electrical, Mechanical Room	0.70		406		284
*101 Lobby	Lobby, Main Entry	1.50		906		1,359
*102 Stair/Hall	Corridor/Restroom/Support	0.60		246		148
*119 Hall	Corridor/Restroom/Support	0.60		197		118
*201 Stair/Hall	Corridor/Restroom/Support	0.60		246		148
*202 Storage	Commercial, Industrial Storage	0.60		193		116
*203 Exhibit Lobby	Exhibit, Museum	2.00		759		1,518
*205 Elevator Lobby	Corridor/Restroom/Support	0.60		81		49
*206 Mech.	Electrical, Mechanical Room	0.70		32		22
*107 Hall	Corridor/Restroom/Support	0.60		267		160
*108 Bar	Bar, Cocktail Lounge, Casino	1.10		582		640
*109 Entry	Lobby, Main Entry	1.50		290		435
*115 WC	Corridor/Restroom/Support	0.60		101		61
*118 Office	Office <= 250 sqft	1.00		132		132
*204 Meeting Rm.	Convention/Conference/Meeting	1.40		652		913
		TOTALS		5,090		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form)						6,102 WATTS

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

A	B	C [2]	D	E	F	G
Primary Function	Sq Ft or linear ft [1]	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of D or F
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						0

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 146-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Project Address: 1018 H St., Eureka APN 005-023-002,	Total Illuminated Hardscape Area 8,868

General Information
Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration
Outdoor Lighting Zone (OLZ) ☐ OLZ-1 ☐ OLZ-2 ☑ OLZ-3 ☐ OLZ-4
I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

LIGHTING COMPLIANCE DOCUMENTS (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power			Watts
1.	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	=	2,184
	Complies ONLY if **Installed ≤ Allowed**		↕
2.	**Sum Total INSTALLED** Outdoor lighting Wattage from NRCC-LTO-01-E, page 3		505

Declaration of Required Installation Certificates – Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

Declaration of Required Certificates of Acceptance – Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7	
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §130.2(b)	
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §130.2(c)	
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
A	B	C	D		E	F	G	H	I	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (C x E)	Primary Function area in which these luminaires are installed	BUG Rating	Pass	Fail
20-south	20= LED 18.3 W	18.3	☐	☑	8	146	Pedestrian Hardscape		☐	☐
35-south	35= LED 18.3W	18.3	☐	☑	4	73	Pedestrian Hardscape		☐	☐
OLTG (5)	33Ft=2w/ft	12.0	☐	☑	2	24	Pedestrian Hardscape		☐	☐
20-North	20= LED 18.3 W	18.3	☐	☑	8	146	Pedestrian Hardscape		☐	☐
35-North	35= LED 18.3W	18.3	☐	☑	2	37	Pedestrian Hardscape		☐	☐
18-So Ent	18=LED 16W	16.0	☐	☑	1	16	Main Entrance		☐	☐
22 East En	22=LED 25W	25.0	☐	☑	1	25	Main Entrance		☐	☐
2-Main Ent	2=LED 12.5	12.5	☐	☑	3	38	Main Entrance		☐	☐
			☐	☐					☐	☐
INSTALLED WATTS PAGE TOTAL:						505	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1	505		

STATE OF CALIFORNIA

OUTDOOR LIGHTING

CEC-NRCC-LTO-01-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA

OUTDOOR LIGHTING CONTROLS

CEC-NRCC-LTO-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:
- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☑ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
- ☐ For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
- ☑ Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

COUNTY OF HUMBOLDT · IN THE REDWOODS

Design Firm

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

CABEC California Association of Building Energy Consultants CERTIFIED ENERGY ANALYST
Anne McQueeney
R13-01-10025
NR13-01-10010

Abbay Technical Services
Building Energy Consultants
Anne M. McQueeney, CEA
1125 16th St., Ste. 216 Arcata, CA 95521
707.826.1433
anny@abbaytechnicalservices.com

Sheet Title

TITLE 24 BUILDING ENERGY REPORT

Project Title

EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn	Reviewed
Date	
Scale	
Sheet No.	

T-3

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or enter 'E' if Exempted)						✓ if Acceptance Test Required	Field Inspector	
A	B	C	D	E	F	G	H	I	N	O	
Location and Application of Luminaires being controlled	Type/ Description of Lighting Control (i.e. motion sensor, photocontrol, outdoor astronomical time-switch control, centralized time-based zone lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
										☐	☐
										☐	☐
										☐	☐
										☐	☐
										☐	☐
										☐	☐
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E) — 1. 2,105

2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
79	+	0	+	0	+	0	=	2. 79

3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2) — 3. 2,184

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
A	B	C	D	E	F	G	H	I
Name of area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B x C)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (E x F)	IWA (Watts)	D + G + H
Pedestrian=south	7,200	0.090	648	465	0.600	279	770	1,697
Pedestrian-North	1,668	0.090	150	430	0.600	258	0	408
							TOTAL	2,105

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B
☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
18-South Entrance Li	1	90	90	18-So Ent	18=LED 16W	1	16.0	16	16
East Entrance 109 Li	1	90	90	22 East E	22=LED 25W	1	25.0	25	25
MAIN ENTRANCE	3	90	270	2-Main Er	2=LED 12.5	3	12.5	38	38
								Sum total allowance per application on this site:	79

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Linear feet of Sales Frontage	Wattage Allowance per linear foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
								Sum total allowance for sales frontage on the site:	0

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B
☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square feet of Hardscape	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
								Sum total allowance for ornamental lighting on the site:	0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B
☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Illuminated Area of Application	Wattage Allowance per square foot	Allotted Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (G x H)	Allowed Watts (smaller of D or I)
								Sum total allowance for specific area on the site:	0

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E(Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 1 of 5)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Project Address: 1018 H St., Eureka APN 005-023-002,

Location of Sign	☑ Outdoor Signs	☐ Indoor Signs	
Phase of Sign Construction	☐ New Signs	☑ Sign Alterations	
Type of Lighting Control	☐ New Lighting Controls	☑ Replaced Lighting Controls	☐ Not Installing Lighting Controls

This Certificate of Compliance includes the following components (check all that apply)
☑ Mandatory Measures (Lighting Controls) ☐ Maximum Allowed Lighting Power ☐ Specific Lighting Sources

1. Mandatory Sign Lighting Controls

NOTES:
1. *The same responsible person may install both the sign lighting power and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign lighting power.*
2. *The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. If the person responsible for installing the sign lighting power is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed.*
3. *If more than one person has responsibility for compliance, each responsible person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction.*

1a. Statements of Responsibility: Any person signing the Certificate of Compliance Declaration Statement on this NRCC-LTS-01-E shall complete Part 1a. Check Yes or No for all of the following statements:

1	I have responsibility for installing the sign lighting controls ☐ Yes, complete parts 1a and 1b of this form ☐ No, complete part 1a of this form
2	There are no existing sign lighting controls and I will be installing compliant sign lighting controls ☐ Yes ☐ No
3	There are no existing sign lighting controls and someone else will be responsible to install compliant sign lighting controls ☐ Yes ☐ No
4	There are existing sign lighting controls that do not comply with the applicable provision of §110.9 and §130.3 and I will be installing compliant sign lighting controls ☐ Yes ☐ No
5	There are existing sign lighting controls that do not comply with the applicable provision of §110.9 and §130.3 and someone else will be responsible to install compliant sign lighting controls ☐ Yes ☐ No

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E(Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 2 of 5)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

1b. Mandatory Sign Lighting Controls
If the person signing the Certificate of Compliance Declaration Statement on this NRCC-LTS-01-E is responsible for complying with the sign lighting control requirements, that person shall answer all of the following questions:
If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located:

		Y	N	NA
1	**§130.3(a)1.** All **indoor sign lighting** is controlled with an automatic time-switch control or astronomical time-switch control.	☐	☐	☐
2	**§130.3(a)2A.** All **outdoor sign lighting** is controlled with a photocontrol in addition to an automatic time-switch control, or an astronomical time-switch control.	☐	☐	☐
	EXCEPTION to Section 130.3(a)2A: Outdoor signs in tunnels, and signs in large permanently covered outdoor areas that are intended to be continuously lit, 24 hours per day and 365 days per year.	☐ (Y)		☐
3	**§130.3(a)2B.** All **outdoor sign lighting** that is ON both day and night is controlled with a dimmer that provides the ability to automatically reduce sign lighting power by a minimum of 65 percent during nighttime hours. Signs that are illuminated at night and for more than 1 hour during daylight hours shall be considered ON both day and night.	☐	☐	☐
	EXCEPTION to Section 130.3(a)2B: Outdoor signs in tunnels and large covered areas that are intended to be illuminated both day and night.	☐ (Y)		☐
4	**§130.3(a)3. Demand Responsive Electronic Message Center Control**. An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed that is capable of reducing the lighting power by a minimum of 30 percent when receiving a demand response signal.	☐	☐	☐ (N/A)
	EXCEPTION to Section 130.3(a)3: Lighting for EMCs that is not permitted by a health or life safety statute, ordinance, or regulation to be reduced by 30 percent.	☐ (Y)		☐

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E(Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 3 of 5)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

2. Maximum Allowed Lighting Power Method of Compliance
Certificate of Compliance and Field Inspection Energy Checklist
Complete this part if there are signs using the maximum allowed lighting power method of compliance. (Complete part 3 of this Certificate of Compliance if there are signs using the Specific lighting sources method of compliance)

A	B	C	D	E	F	G	H	I	J
Symbol Or Code	Description of the Sign	OPTIONAL – Energy Verified Label (see instructions below)	Allotted Watts: Sign Area (ft²)	Internally (I) or Externally (E) Illuminated	Allowed LPD (I – 12 W/ft²) (E = 2.3 W/ft²)	Allowed Watts (D x F)	Design Watts: Total installed watts for sign	Complies Y/N: Complies if H ≤ G	Filed Inspector Check that sign complies
		✓							✓
		☐							☐
		☐							☐
		☐							☐
		☐							☐
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		☐							☐
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		☐							☐
		☐							☐
		☐							☐
		☐							☐

A	Symbol or code used on the plans (when plans are required) and other documents.
B	A description of the sign, or location of sign on the building; and the location of sign on construction documents.
C	OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed, ENERGY VERIFIED label, confirming that the sign complies with the Section 140.8 of the California 2013 Title 24, Part 6 Standards, using the Maximum Allowed Lighting Power method of compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A Inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, columns 'D' through 'I' are not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.
D	The sign area in square feet.
E	List "I" if the sign is internally illuminated. List "E" if the sign is externally illuminated.
F	Allowed watts per square foot. Enter 12 if the sign is listed as "I" in column E. Enter 2.3 if sign is listed as "E" in column E.
G	Multiply the square footage in column D times the allowed Lighting Power Density (LPD = watts) in column F.
H	Show the total installed watts in the sign, as determined according to the applicable provisions of §130(c).
I	Enter Y if the number in column H is less than or equal to the number in column G. Otherwise, the sign does not comply.
J	This page doubles as a field inspection checklist.

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E(Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 4 of 5)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

3. Specific Lighting Source Method of Compliance
Certificate of Compliance and Field Inspection Energy Checklist
Complete this part if there are signs using the Specific lighting source method of compliance. (Complete part 2 of this Certificate of Compliance if there are signs using the maximum allowed lighting power method of compliance)

A	B	C	D	E
Symbol or Code	Description	OPTIONAL ENERGY VERIFIED label (see instructions below)	Specific light source used for compliance Shall include only lighting technologies listed below List all that apply	Field Inspector Check that Sign Complies ✓
	Existing Cantina Sign**	☐	1 2 4 6 7 9	☐
		☐		☐
		☐		☐
		☐		☐
		☐		☐

A		Symbol or code used on the plans (when plans are required) and other documents.
B		A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents
C		OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed ENERGY VERIFIED label, confirming that this sign complies with the Section 140.8 of the California 2013 Title 24, Part 6 Standards, using the Specific Lighting Source Method of Compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A Inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, column 'D' is not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.
D		Specific Light Source Compliance Method. The sign(s) identified above use only the following lighting technologies: List all applicable numbers (1 through 9) that apply in column D above for each row.
	1	High pressure sodium lamps
	2	Metal halide lamps that are pulse start or ceramic served by a ballast that has a minimum efficiency of 88 percent or greater. Ballast efficiency is the measured output wattage to the lamp divided by the measured operating input wattage when tested according to ANSI C82.6-2005.
	3	Metal halide lamps that are pulse start that are 320 watts or smaller, are not 250 watt or 175 watt lamps, and are served by a ballast that has a minimum efficiency of 80 percent. Ballast efficiency is the measured output wattage to the lamp divided by the measured operating input wattage when tested according to ANSI C82.6-2005.
	4	Neon or cold cathode lamps with transformer or power supply efficiency greater than or equal to a minimum efficiency of 75 percent when the transformer or power supply rated output current is less than 50 mA. The ratio of the output wattage to the input wattage is at 100 percent tubing load.
	5	Neon or cold cathode lamps with transformer or power supply efficiency greater than or equal to a minimum efficiency of 68 percent when the transformer or power supply rated output current is 50 mA or greater. The ratio of the output wattage to the input wattage is at 100 percent tubing load.
	6	Fluorescent lighting systems meeting one of the following requirements: A. Use only lamps with a minimum color rendering index (CRI) of 80; or B. Use only electronic ballasts with a fundamental output frequency not less than 20 kHz.
	7	Light emitting diodes (LEDs) with a power supply having an efficiency of 80 percent or greater;
	8	Single voltage external power supplies that are designed to convert 120 volt AC input into lower voltage DC or AC output, and have a nameplate output power less than or equal to 250 watts, shall comply with the applicable requirements of the Appliance Efficiency Regulations (Title 20).
	9	Compact fluorescent lamps that do not contain a medium screw base sockets (E24/E26).
E		This page doubles as a field inspection checklist.

Field Inspector Notes:

STATE OF CALIFORNIA
SIGN LIGHTING
CEC-NRCC-LTS-01-E(Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTS-01-E
Sign Lighting	(Page 5 of 5)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 1 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☑	☐	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02A to 11A). Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12A to 18A). Required on plans where applicable.
☑	☐	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
☑	☐	NRCC MCH 02 E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
☑	☐	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
☑	☐	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
☑	☐	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)
Test Performed By:
Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.
Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.
Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
UF1SW=Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
UFBD1/UFBD2	2	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
UFBB/DFBB=B	1	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
HFBN= Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
DFRR=Modine	1	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
UF111A&B=Bry	2	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
HF1NW=Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
UF1NE= Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
UF1LOB=Bryar	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
HF1SE=Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)
Test Performed By:
Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.
Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.
Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
UFMN=Bryant	1	☑	☑	☐	☑	☑	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)
Test Performed By:
Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.
Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible. The following tests require a
Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A
Equipment Requiring Testing or Verification	# of units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
UF1SW=Bryant	1	☐	☐	☐	☐	☐	☐	☐
UFBD1/UFBD2	2	☐	☐	☐	☐	☐	☐	☐
UFBB/DFBB=B	1	☐	☐	☐	☐	☐	☐	☐
HFBN= Bryant	1	☐	☐	☐	☐	☐	☐	☐
DFRR=Modine	1	☐	☐	☐	☐	☐	☐	☐
UF111A&B=Bry	2	☐	☐	☐	☐	☐	☐	☐
HF1NW=Bryant	1	☐	☐	☐	☐	☐	☐	☐
UF1NE= Bryant	1	☐	☐	☐	☐	☐	☐	☐
UF1LOB=Bryar	1	☐	☐	☐	☐	☐	☐	☐
HF1SE=Bryant	1	☐	☐	☐	☐	☐	☐	☐

COUNTY OF HUMBOLDT • IN THE REDWOODS •

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

CABEC California Association of Building Energy Consultants
CERTIFIED ENERGY ANALYST
Anne McQueeney
R13-01-10025
NR13-01-10010

Abbay Technical Services
Building Energy Consultants
Anne M. McQueeney, CEA
1125 16th St., Ste. 216 Arcata, CA 95521
707.826.1433
amy@abbaytechnicalservices.com

Sheet Title
TITLE 24 BUILDING ENERGY REPORT

Project Title
EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn	Reviewed
Date	
Scale	
Sheet No.	

T-4

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required forms)

Test Performed By:

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test them self or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible. The following tests require a

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A
Equipment Requiring Testing or Verification	# of units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
UFMN=Bryant 9	1	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 4 of 4)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. Equipment Tags and System Description[1]		*UF1SW	*UFBD1/UFDB2	*UFBB/DFBB
B. MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low leakage AHUs	110.2(f)			
Ventilation[4]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
C. PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y Y/N	Y Y/N	Y Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing.[10]	140.4(l)			

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. Equipment Tags and System Description[1]		*HFBN	*DFRR	*UF111A&B
B. MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low leakage AHUs	110.2(f)			
Ventilation[4]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
C. PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y Y/N	Y Y/N	Y Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing.[10]	140.4(l)			

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. Equipment Tags and System Description[1]		*HF1NW	*UF1NE	UF1LOB
B. MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low leakage AHUs	110.2(f)			
Ventilation[4]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
C. PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y Y/N	Y Y/N	Y Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing.[10]	140.4(l)			

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Dry System Requirements	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. Equipment Tags and System Description[1]		*HF1SE	*UFMN	
B. MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Equipment Efficiency[3]	110.1 or 110.2(a)			
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
Furnace Standby Loss Control	110.2(d)			
Low leakage AHUs	110.2(f)			
Ventilation[4]	120.1(b)			
Demand Control Ventilation[5]	120.1(c)4			
Occupant Sensor Ventilation Control[6]	120.1(c)5, 120.2(e)3			
Shutoff and Reset Controls[7]	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
Isolation Zones	120.2(g)			
Automatic Demand Shed Controls	120.2(h)			
Economizer FDD	120.2(i)			
Duct Insulation	120.4			
C. PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Y Y/N	Y Y/N	Y/N
Supply Fan Pressure Control	140.4(c)			
Simultaneous Heat/Cool[8]	140.4(d)			
Economizer	140.4(e)			
Heat and Cool Air Supply Reset	140.4(f)			
Electric Resistance Heating[9]	140.4(g)			
Duct Leakage Sealing and Testing.[10]	140.4(l)			

Notes:
1. *Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.*
4. *Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.*
5. *If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.*
6. *If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation*
7. *If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).*
8. *Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E form.*
9. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
10. *If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.*

STATE OF CALIFORNIA
HVAC WET SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. Equipment Tags and System Description[1]				
B. MANDATORY MEASURES	*T-24 Sections*	*Reference to the Requirements in the Contract Documents[2]*		
Heating Hot Water Equipment Efficiency[3]	110.1			
Cooling Chilled and Condenser Water Equipment Efficiency[3]	110.1, 140.4(i)			
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1			
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI)[6]	110.2(e) 2			
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3			
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4			
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5			
Pipe Insulation	120.3			
C. PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N	Y/N	Y/N
Cooling Tower Flow Controls	140.4(h)3			
Centrifugal Fan Cooling Towers[4]	140.4(h)4			
Air-Cooled Chiller Limitation[5]	140.4(j)			
Variable Flow System Design	140.4(k)			
Chiller and Boiler Isolation	140.4(k)			
CHW and HHW Reset Controls	140.4(k)			
WLHP Isolation Valves	140.4(k)			
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)			
DP Sensor Location	140.4(k)			

Notes:
1. *Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.*
2. *Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.*
3. *The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the Kadj values. For chillers also note whether the efficiencies are Path A or Path B.*
4. *Identify if cooling towers have propeller fans. If towers use centrifugal fans document which exception is used.*
5. *If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(j) and the total installed design capacity of the air-cooled chillers in the chilled water plant.*
6. *Identify the existence of a completed MCH-06-E \when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".*

STATE OF CALIFORNIA
HVAC SYSTEM REQUIREMENTS
CEC-NRCC-MCH-02-E (Revised 06/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-02-E
HVAC Wet System Requirements	(Page 3 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEAD-BAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	COND-TIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCU-PANT	REQ'D VENT AIRFLOW (MAX OF I OR L) (CFM)	COM-PLIES	[50% DDC,30% NON-DDC] PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT CFM (MAX OF M OR O)	COM-PLIES?	[20% DDC, N/A NON-DDC] (CFM)	(larger of M or R, N/A for NON-DDC) (CFM)	COM-PLIES
*005 K						495	0.15	74	2.5	30.0	74	74	Y						
*006 S						104	0.15	16	0.2	75.0	16	16	Y						
*110 N						1,060	0.50	530	70.7	7.5	530	530	Y						
											Total	620							
*003 D						3,428	0.50	1,714	228.5	7.5	1,714	1,714	Y						
*004 F						431	0.15	65	1.3	50.0	65	65	Y						
											Total	1,779							
*013 S						41	0.15	6	0.1	75.0	6	6	Y						
*014 S						261	0.15	39	0.5	75.0	39	39	Y						
*015 B						1,985	0.50	993	132.3	7.5	993	993	Y						
*016 N						233	0.15	35	0.7	50.0	35	35	Y						

Yellow shaded cells require user input. Remaining cells are protected and automatic
- B. The largest amount of primary air supplied by the terminal unit when it's operating in the cooling mode.
- C. The smallest amount of primary air supplied by the terminal unit in the deadband mode.
- D. The largest amount of primary air supplied by the terminal unit when it's operating in the heating mode.
- E. A terminal unit can be controlled with DDC controls, or non-DDC controls. Each control category has different reheat limitations in code.
- F. Transfer Air must be provided where Required Ventilation Airflow (Column M) is greater than the Design Primary Deadband Airflow (Column C).
- H. Minimum ventilation rate per Section §120.1. Table 120.1-A.
- J. Based on number of fixed seats where applicable or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
- M. Required Ventilation Airflow (Req'd Ventilation Airflow) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column I or L)
- N. This column identifies whether or not the Design Primary Deadband Airflow complies or not. It compares the value in column M to the value in column C and column F.
- O. Design Primary Cooling Airflow * 0.50 for DDC, Design Primary Cooling Airflow * 0.30 for Non-DDC. If the Design Primary Cooling Airflow is less than 300 cfm, then this is not applicable.
- P. Maximum of Column M and Column O. If the Design Primary Cooling Airflow is 300 cfm or less, then this is not applicable.
- Q. This column identifies whether or not the Design Primary Reheat Airflow at the zone level, complies or not. It compares the value in column P to the value in column D.
- R. Design Primary Cooling Airflow * 0.20 for DDC. Not applicable for Non-DDC zones or zones where Design Primary Cooling Airflow is 300 cfm or less.
- S. Maximum of Column M and Column R. Not applicable if the Design Primary Cooling Airflow is 300 cfm or less.
- T. This column identifies whether or not the Design Primary Deadband Airflow at the zone level, complies or not. It compares the value in column S to the value in column C.

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEAD-BAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	COND-TIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCU-PANT	REQ'D VENT AIRFLOW (MAX OF I OR L) (CFM)	COM-PLIES	[50% DDC,30% NON-DDC] PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT CFM (MAX OF M OR O)	COM-PLIES?	[20% DDC, N/A NON-DDC] (CFM)	(larger of M or R, N/A for NON-DDC) (CFM)	COM-PLIES
*017 I						36	0.15	5	0.4	15.0	5	5	Y						
											Total	1,078							
*002 V						290	0.15	44	2.9	15.0	44	44	Y						
*018 E						266	0.50	133	17.7	7.5	133	133	Y						
*018 H						1,150	0.15	173	11.5	15.0	173	173	Y						
*019 S						595	0.15	89	1.2	75.0	89	89	Y						
											Total	438							
*001 S						246	0.15	37	2.5	15.0	37	37	Y						
*007 E						42	0.15	6	0.1	50.0	6	6	Y						
*008 V						162	0.15	24	1.6	15.0	24	24	Y						
*009 J						29	0.15	4	0.1	75.0	4	4	Y						

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- B. The largest amount of primary air supplied by the terminal unit when it's operating in the cooling mode.
- C. The smallest amount of primary air supplied by the terminal unit in the deadband mode.
- D. The largest amount of primary air supplied by the terminal unit when it's operating in the heating mode.
- E. A terminal unit can be controlled with DDC controls, or non-DDC controls. Each control category has different reheat limitations in code.
- F. Transfer Air must be provided where Required Ventilation Airflow (Column M) is greater than the Design Primary Deadband Airflow (Column C).
- H. Minimum ventilation rate per Section §120.1. Table 120.1-A.
- J. Based on number of fixed seats where applicable or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
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STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEAD-BAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	COND-TIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCU-PANT	REQ'D VENT AIRFLOW (MAX OF I OR L) (CFM)	COM-PLIES	[50% DDC,30% NON-DDC] PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT CFM (MAX OF M OR O)	COM-PLIES?	[20% DDC, N/A NON-DDC] (CFM)	(larger of M or R, N/A for NON-DDC) (CFM)	COM-PLIES
*10 Me						143	0.15	21	1.4	15.0	21	21	Y						
*011 H						476	0.15	71	4.8	15.0	71	71	Y						
*012 E						72	0.15	11	0.7	15.0	11	11	Y						
*103 H						71	0.15	11	0.7	15.0	11	11	Y						
*104 C						134	0.15	20	1.3	15.0	20	20	Y						
*105 N						181	0.15	27	1.8	15.0	27	27	Y						
*106 S						33	0.15	5	0.1	75.0	5	5	Y						
*SE M						205	0.15	31	0.6	50.0	31	31	Y						
											Total	269							
*111 N						3,294	0.50	1,647	219.6	7.5	1,647	1,647	Y						
											Total	1,647							

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STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
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*112 N						1,060	0.50	530	70.7	7.5	530	530	Y						
*113 H						469	0.15	70	4.7	15.0	70	70	Y						
											Total	600							
*114 L						596	0.50	298	39.7	7.5	298	298	Y						
*116 V						196	0.15	29	2.0	15.0	29	29	Y						
*117 C						206	0.15	31	2.1	15.0	31	31	Y						
*NE M						406	0.15	61	1.2	50.0	61	61	Y						
											Total	419							
*101 L						906	0.50	453	60.4	7.5	453	453	Y						
*102 S						246	0.15	37	2.5	15.0	37	37	Y						
*119 H						197	0.15	30	2.0	15.0	30	30	Y						

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STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEAD-BAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	COND-TIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCU-PANT	REQ'D VENT AIRFLOW (MAX OF I OR L) (CFM)	COM-PLIES	[50% DDC,30% NON-DDC] PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT CFM (MAX OF M OR O)	COM-PLIES?	[20% DDC, N/A NON-DDC] (CFM)	(larger of M or R, N/A for NON-DDC) (CFM)	COM-PLIES
*201 S						246	0.15	37	2.5	15.0	37	37	Y						
*202 S						193	0.15	29	0.4	75.0	29	29	Y						
*203 E						759	0.50	380	50.6	7.5	380	380	Y						
*205 E						81	0.15	12	0.8	15.0	12	12	Y						
*206 N						32	0.15	5	0.1	50.0	5	5	Y						
											Total	982							
*107 H						267	0.15	40	2.7	15.0	40	40	Y						
*108 B						582	0.50	291	38.8	7.5	291	291	Y						
*109 E						290	0.50	145	19.3	7.5	145	145	Y						
											Total	476							
*115 V						101	0.15	15	1.0	15.0	15	15	Y						

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Mechanical Ventilation & Reheat	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			MINIMUM		VAV Reheated Primary Air CFM			VAV Deadband Primary Air CFM		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
ZONE/ SYSTEM/ VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEAD-BAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CNTRL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	COND-TIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUM. OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCU-PANT	REQ'D VENT AIRFLOW (MAX OF I OR L) (CFM)	COM-PLIES	[50% DDC,30% NON-DDC] PRIMARY COOLING AIR (CFM)	MAXIMUM REHEAT CFM (MAX OF M OR O)	COM-PLIES?	[20% DDC, N/A NON-DDC] (CFM)	(larger of M or R, N/A for NON-DDC) (CFM)	COM-PLIES
*118 C						132	0.15	20	1.3	15.0	20	20	Y						
*204 N						652	0.50	326	43.5	7.5	326	326	Y						
											Total	361							

Yellow shaded cells require user input. Remaining cells are protected and automatic
- B. The largest amount of primary air supplied by the terminal unit when it's operating in the cooling mode.
- C. The smallest amount of primary air supplied by the terminal unit in the deadband mode.
- D. The largest amount of primary air supplied by the terminal unit when it's operating in the heating mode.
- E. A terminal unit can be controlled with DDC controls, or non-DDC controls. Each control category has different reheat limitations in code.
- F. Transfer Air must be provided where Required Ventilation Airflow (Column M) is greater than the Design Primary Deadband Airflow (Column C).
- H. Minimum ventilation rate per Section §120.1. Table 120.1-A.
- J. Based on number of fixed seats where applicable or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.
- M. Required Ventilation Airflow (Req'd Ventilation Airflow) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column I or L)
- N. This column identifies whether or not the Design Primary Deadband Airflow complies or not. It compares the value in column M to the value in column C and column F.
- O. Design Primary Cooling Airflow * 0.50 for DDC, Design Primary Cooling Airflow * 0.30 for Non-DDC. If the Design Primary Cooling Airflow is less than 300 cfm, then this is not applicable.
- P. Maximum of Column M and Column O. If the Design Primary Cooling Airflow is 300 cfm or less, then this is not applicable.
- Q. This column identifies whether or not the Design Primary Reheat Airflow at the zone level, complies or not. It compares the value in column P to the value in column D.
- R. Design Primary Cooling Airflow * 0.20 for DDC. Not applicable for Non-DDC zones or zones where Design Primary Cooling Airflow is 300 cfm or less.
- S. Maximum of Column M and Column R. Not applicable if the Design Primary Cooling Airflow is 300 cfm or less.
- T. This column identifies whether or not the Design Primary Deadband Airflow at the zone level, complies or not. It compares the value in column S to the value in column C.

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-03-E
Mechanical Ventilation & Reheat	(Page 2 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable): CABEC
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

COUNTY OF HUMBOLDT • IN THE REDWOODS •

Design Firm

COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
1106 2ND ST.
EUREKA, CA 95501

CABEC California Association of Building Energy Consultants
CERTIFIED ENERGY ANALYST
Anne McQueeney
R13-01-10025
NR13-01-10010

Abbay Technical Services
Building Energy Consultants
Anne M. McQueeney, CEA
1125 16th St., Ste. 216 Arcata, CA 95521
707.826.1433
anny@abbaytechnicalservices.com

Sheet Title
TITLE 24 BUILDING ENERGY REPORT

Project Title
EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn | Reviewed
Date
Scale
Sheet No.

T-5

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual Note: The Enforcement Agency may require all forms to be incorporated onto the building plans. Forms NRCC-MCH-04-E and NRCC-MECH-05-E are alternative forms to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
✓		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
✓		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
✓		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
✓		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:

Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. .

The NRCC-MCH-04-E form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy.

Test Description: Equipment Requiring Testing or Verification	# of units	MCH-02-A Outdoor Air	MCH-03-A Single Zone Unitary	MCH-04-A Air Distribution Ducts	MCH-05-A Economizer Controls	MCH-06-A Demand Control Ventilation (DCV)	MCH-07-A Supply Fan VAV	MCH-11-A Automatic Demand Shed Control	MCH-12-A FDD for Packaged DX Units	MCH-14-A Distributed Energy Storage DX AC Systems	MCH-18-A Energy Management Control System	Test Performed By:
UF1SW=B	1	✓	✓		✓	✓						
UFBD1/UF	2	✓	✓		✓	✓						
UFBB/DFB	1	✓	✓									
HFBN= Br	1	✓	✓		✓	✓						
DFRR=Mo	1	✓	✓									
UF111A&B	2	✓	✓									
HF1NW=B	1	✓	✓		✓	✓						
UF1NE= B	1	✓	✓		✓	✓						
UF1LOB=E	1	✓	✓		✓	✓						

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

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Test Description: Equipment Requiring Testing or Verification	# of units	MCH-02-A Outdoor Air	MCH-03-A Single Zone Unitary	MCH-04-A Air Distribution Ducts	MCH-05-A Economizer Controls	MCH-06-A Demand Control Ventilation (DCV)	MCH-07-A Supply Fan VAV	MCH-11-A Automatic Demand Shed Control	MCH-12-A FDD for Packaged DX Units	MCH-14-A Distributed Energy Storage DX AC Systems	MCH-18-A Energy Management Control System	Test Performed By:
HF1SE=Br	1	✓	✓		✓	✓						
UFMN=Bry	1	✓	✓		✓	✓						

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable): CABEC CERTIFIED ENERGY ANALYST
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
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Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Equipment Tag(s)[1]		*UF1SW		*UFBD1/UFDB2		*UFBB/DFBB	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	78% AFUE	96% AFUE	78% TE	96% TE	78% TE	96% TE
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	n/a	n/a	n/a	n/a	n/a	n/a
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		Req	IID	Req	IID
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	620	620	1,779	1,779	1,078	1,078
Demand Control Ventilation[8]	120.1(c)4	Req	Yes	Req	Yes	NR	No
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR		NR		NR	
Duct Insulation	120.4	n/a	none	n/a	none	n/a	none
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	83,073 Btu/hr 73,447 Btu/hr	78,000 Btu/hr 0 Btu/hr	140,287 Btu/hr 120,399 Btu/h	534,000 Btu/hr 0 Btu/hr	110,096 Btu/h 74,261 Btu/hr	222,000 Btu/hr 0 Btu/hr
Economizer	140.4(e)	NR	Fixed Enth (Int	NR	Fixed Enth (Inte	NR	No Economizer
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Equipment Tag(s)[1]		*HFBN		*DFRR		*UF111A&B	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	78% AFUE	96% AFUE	78% AFUE	80% AFUE	78% AFUE	96% AFUE
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	n/a	n/a	n/a	n/a	n/a	n/a
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	438	438	269	1,228	1,647	1,647
Demand Control Ventilation[8]	120.1(c)4	Req	Yes	NR	No	NR	No
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR		NR		NR	
Duct Insulation	120.4	n/a	none	n/a	none	n/a	none
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	61,357 Btu/hr 23,868 Btu/hr	183,000 Btu/hr 0 Btu/hr	117,803 Btu/h 12,450 Btu/hr	100,000 Btu/hr 0 Btu/hr	231,507 Btu/h 151,037 Btu/h	234,000 Btu/hr 0 Btu/hr
Economizer	140.4(e)	NR	Fixed Enth (Int	NR	No Economizer	NR	No Economizer
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Equipment Tag(s)[1]		*HF1NW		*UF1NE		UF1LOB	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	78% AFUE	96% AFUE	78% AFUE	96% AFUE	78% AFUE	96% AFUE
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	n/a	n/a	n/a	n/a	n/a	n/a
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	600	600	419	600	982	1,072
Demand Control Ventilation[8]	120.1(c)4	Req	Yes	Req	Yes	Req	Yes
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR		NR		NR	
Duct Insulation	120.4	n/a	none	n/a	none	n/a	none
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	98,655 Btu/hr 56,170 Btu/hr	117,000 Btu/hr 0 Btu/hr	81,278 Btu/hr 36,305 Btu/hr	58,000 Btu/hr 0 Btu/hr	175,425 Btu/h 85,275 Btu/hr	139,000 Btu/hr 0 Btu/hr
Economizer	140.4(e)	NR	Fixed Enth (Int	NR	Fixed Enth (Inte	NR	Fixed Enth (Intec
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Equipment Tag(s)[1]		*HF1SE		*UFMN			
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]	*Requirement*[3]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	78% AFUE	96% AFUE	78% AFUE	96% AFUE		
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	n/a	n/a	n/a	n/a		
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback		
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a			
Low Leakage AHU	110.2(f)	NR	none	NR	none		
Ventilation[7]	120.1(b)	476	476	361	426		
Demand Control Ventilation[8]	120.1(c)4	Req	Yes	Req	Yes		
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable		
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto		
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none		
Economizer FDD	120.2(i)	NR		NR			
Duct Insulation	120.4	n/a	none	n/a	none		
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	70,017 Btu/hr 50,574 Btu/hr	78,000 Btu/hr 0 Btu/hr	61,866 Btu/hr 28,263 Btu/hr	78,000 Btu/hr 0 Btu/hr		
Economizer	140.4(e)	NR	Fixed Enth (Int	NR	Fixed Enth (Inte		
Electric Resistance Heating[10]	140.4(g)	No	No	No	No		
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No		

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at >=225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

11. *If duct leakage sealing and testing is required, a* ***MCH-04-A*** *form must be submitted.*

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable): CABEC CERTIFIED ENERGY ANALYST
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UF1SW - Supply Fan	0.750	85.5 %	97.0 %	1.0	675

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	675	W
	2) SUPPLY DESIGN AIRFLOW	1,360	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.496	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.496	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UFBD1/UFDB2 - Supply Fan	1.750	86.5 %	97.0 %	2.0	3,112

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	3,112	W
	2) SUPPLY DESIGN AIRFLOW	10,950	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.284	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.284	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UFBB/DFBB - Supply Fan	2.500	89.5 %	97.0 %	1.0	2,148

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	2,148	W
	2) SUPPLY DESIGN AIRFLOW	3,985	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.539	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.539	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*HFBN - Supply Fan	1.500	86.5 %	97.0 %	1.0	1,334

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	1,334	W
	2) SUPPLY DESIGN AIRFLOW	4,450	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.300	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.300	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*DFRR - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Exhaust Fan	0.090	85.5 %	100.0 %	1.0	113
Exhaust Fan	0.036	85.5 %	100.0 %	1.0	45
Exhaust Fan	0.090	85.5 %	100.0 %	1.0	113

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	1,099	W
	2) SUPPLY DESIGN AIRFLOW	1,275	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.862	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.862	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: *Eureka Memorial Veterans Building*	Date Prepared: *3/31/2016*

Constant Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
Exhaust Fan	0.170	85.5 %	97.0 %	1.0	153

Variable Air Volume Fans Systems

NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	1,099	W
	2) SUPPLY DESIGN AIRFLOW	1,275	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.862	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.862	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

Design Firm
COUNTY OF HUMBOLDT
DEPT. OF PUBLIC WORKS
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EUREKA, CA 95501

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Anne McQueeney
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Sheet Title
TITLE 24 BUILDING ENERGY REPORT

Project Title
EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn	Reviewed
Date	
Scale	
Sheet No.	

T-6

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UF111A&B - Supply Fan	1.000	86.5 %	97.0 %	2.0	1,778

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	1,778	W
	2) SUPPLY DESIGN AIRFLOW	4,250	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.418	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.418	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*HF1NW - Supply Fan	1.000	86.5 %	97.0 %	1.0	889

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	889	W
	2) SUPPLY DESIGN AIRFLOW	1,950	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.456	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.456	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UF1NE - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Exhaust Fan	0.066	85.5 %	100.0 %	1.0	83

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	758	W
	2) SUPPLY DESIGN AIRFLOW	1,440	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.526	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.526	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
UF1LOB - Supply Fan	1.250	86.5 %	97.0 %	1.0	1,111
Exhaust Fan	0.064	85.5 %	100.0 %	1.0	80

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	1,191	W
	2) SUPPLY DESIGN AIRFLOW	4,145	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.287	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.287	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*HF1SE - Supply Fan	1.000	86.5 %	97.0 %	1.0	889

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	889	W
	2) SUPPLY DESIGN AIRFLOW	1,360	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.654	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.654	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

Constant Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
*UFMN - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Exhaust Fan	0.064	85.5 %	100.0 %	1.0	80

Variable Air Volume Fans Systems
NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

A	B	C	D	E	F
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY MOTOR	EFFICIENCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)

Totals and Adjustments

FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards.	1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	755	W
	2) SUPPLY DESIGN AIRFLOW	1,360	CFM
A) If filter pressure drop (SP_a) is greater than 1 inch W. C. or 245 Pascal then enter SP_a on line 4. Enter Total Fan pressure drop across the fan (SP_f) on Line 5.	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2)[1]	0.555	W/CFM
	4) SP_a		in W.C or Pa
B) Calculate Fan Adjustment and enter on line 6.	5) SP_f		in W.C or Pa
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = 1-(SP_a – 1)/SP_f		
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)[1]	0.555	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA
FAN POWER CONSUMPTION
CEC-NRCC-MCH-07-E (Revised 07/14) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-07-E
Power Consumption of Fans Requirements	(Page 2 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. GENERAL INFORMATION/SYSTEM INFORMATION

1.	Water Heater System Name:	X=Rheem G72-250 or Eq.
2.	Water Heater System Configuration:	Non-Central
3.	Water Heater System Type:	
4.	Building Type:	
5.	Total Number of Water Heaters in Systems:	1
6.	Central DHW Distribution Type:	n/a
7.	Dwelling Unit DHW Distribution Type:	Standard

B. WATER HEATER INFORMATION
Each water heater type requires a separate form.

1.	Water Heater Type:	Large Storage Gas
2.	Fuel Type	Gas Fired
3.	Manufacture Name	X=Rheem G72-250 or Eq.
4.	Model Number	
5.	Number of Identical Water Heaters:	1
6.	Installed Water Heater System Efficiency:	0.80
7.	Required Minimum Efficiency:	0.80
8.	Standby loss percent or Standby loss total:	0.027
9.	Rated Input	250,000
810	Pilot Energy:	
911	Water Heater Tank Storage Volume:	72
12	Exterior Insulation On Water Heater:	0
13.	Volume of Supplemental Storage:	
14.	Internal Insulation on Supplemental Storage:	
15.	Exterior Insulation on Supplemental Storage:	

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

A. GENERAL INFORMATION/SYSTEM INFORMATION

1.	Water Heater System Name:	Y=Rheem G50-98 or Eq.
2.	Water Heater System Configuration:	Non-Central
3.	Water Heater System Type:	
4.	Building Type:	
5.	Total Number of Water Heaters in Systems:	1
6.	Central DHW Distribution Type:	n/a
7.	Dwelling Unit DHW Distribution Type:	Standard

B. WATER HEATER INFORMATION
Each water heater type requires a separate form.

1.	Water Heater Type:	Large Storage Gas
2.	Fuel Type	Gas Fired
3.	Manufacture Name	Y=Rheem G50-98 or Eq.
4.	Model Number	
5.	Number of Identical Water Heaters:	1
6.	Installed Water Heater System Efficiency:	0.80
7.	Required Minimum Efficiency:	0.80
8.	Standby loss percent or Standby loss total:	0.030
9.	Rated Input	98,000
810	Pilot Energy:	
911	Water Heater Tank Storage Volume:	98
12	Exterior Insulation On Water Heater:	0
13.	Volume of Supplemental Storage:	
14.	Internal Insulation on Supplemental Storage:	
15.	Exterior Insulation on Supplemental Storage:	

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: Eureka Memorial Veterans Building	Date Prepared: 3/31/2016

PLUMBING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Form/Worksheet #	Title
☐	☐	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
☐	☐	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
☐	☐	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Anne M. McQueeney CEA, CEPE	Documentation Author Signature: A McQueeney CEA
Company: ABBAY TECHNICAL SERVICES	Signature Date: 3/31/2016
Address: 1125 16th Street, Ste. 216	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Arcata, CA 95521	Phone: 707.826.1433

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Humboldt County Public Works	Responsible Designer Signature:
Company: Humboldt County Public Works	Date Signed:
Address: 1106 2nd Street	License:
City/State/Zip: Eureka, CA 95501	Phone: 707.445.7491

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Eureka Memorial Veterans Building	Date: 3/31/2016
System Name: *UF1SW	Floor Area: 1,659

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	78,000
Total Output (Btuh)	78,000
Output (Btuh/sqft)	47.0
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	1,360
Airflow (cfm)	1,360
Airflow (cfm/sqft)	0.82
Airflow (cfm/Ton)	0.0
Outside Air (%)	45.6 %
Outside Air (cfm/sqft)	0.37

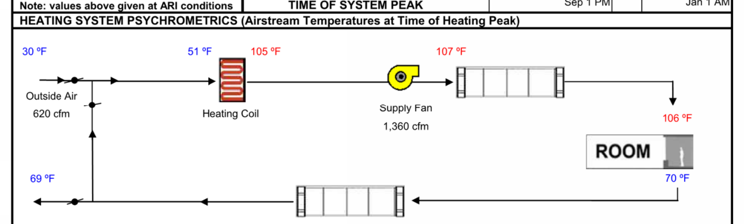
Note: values above given at ARI conditions

SYSTEM LOAD

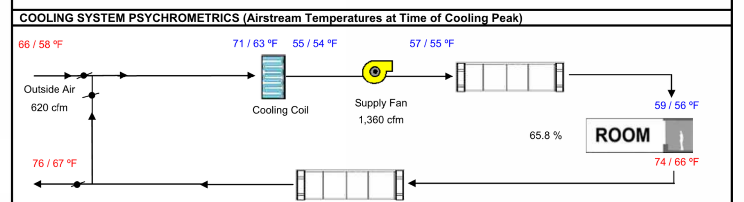
	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	3,564	59,293	20,708	816	31,248
Return Vented Lighting		0			
Return Air Ducts		2,965			1,562
Return Fan		0			0
Ventilation	620	-6,824	-10,474	620	26,023
Supply Fan		2,302			-2,302
Supply Air Ducts		2,965			1,562
TOTAL SYSTEM LOAD		60,700	10,233		58,093

HVAC EQUIPMENT SELECTION	Cooling Sensible	Cooling Latent	Heating Sensible
UF1SW=Bryant 925TA48080E17 or Eq.	0	0	78,000
Total Adjusted System Output (Adjusted for Peak Design conditions)	0	0	78,000
TIME OF SYSTEM PEAK	Sep 1 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Eureka Memorial Veterans Building	Date: 3/31/2016
System Name: *UFBD1/UFDB2	Floor Area: 3,859

ENGINEERING CHECKS

Number of Systems	2
Heating System	
Output per System	267,000
Total Output (Btuh)	534,000
Output (Btuh/sqft)	138.4
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	5,475
Airflow (cfm)	10,950
Airflow (cfm/sqft)	2.84
Airflow (cfm/Ton)	0.0
Outside Air (%)	16.2 %
Outside Air (cfm/sqft)	0.46

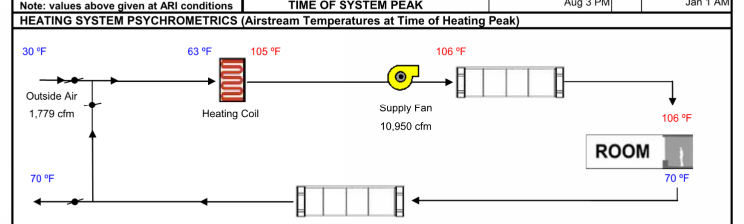
Note: values above given at ARI conditions

SYSTEM LOAD

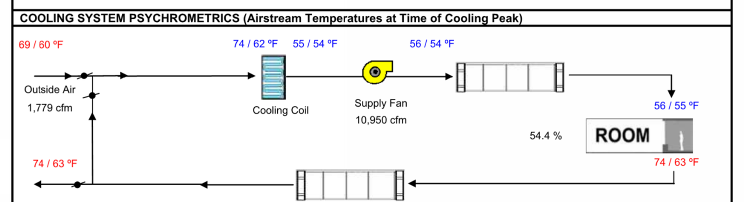
	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	4,720	90,186	63,170	760	29,314
Return Vented Lighting		0			
Return Air Ducts		4,509			1,466
Return Fan		0			0
Ventilation	1,779	-10,322	-7,080	1,779	76,478
Supply Fan		10,621			-10,621
Supply Air Ducts		4,509			1,466
TOTAL SYSTEM LOAD		99,503	56,090		98,103

HVAC EQUIPMENT SELECTION	Cooling Sensible	Cooling Latent	Heating Sensible
UFBD1/UFBD2=Bryant 925TA66120E24 or Eq.	0	0	534,000
Total Adjusted System Output (Adjusted for Peak Design conditions)	0	0	534,000
TIME OF SYSTEM PEAK	Aug 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Eureka Memorial Veterans Building	Date: 3/31/2016
System Name: *UFBB/DFBB	Floor Area: 2,556

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	222,000
Total Output (Btuh)	222,000
Output (Btuh/sqft)	86.9
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	3,985
Airflow (cfm)	3,985
Airflow (cfm/sqft)	1.56
Airflow (cfm/Ton)	0.0
Outside Air (%)	27.1 %
Outside Air (cfm/sqft)	0.42

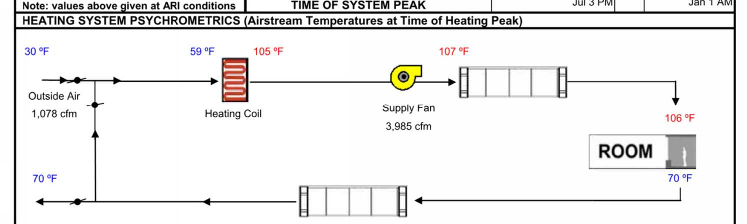
Note: values above given at ARI conditions

SYSTEM LOAD

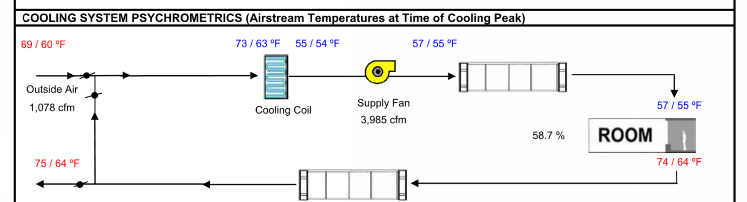
	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	3,068	55,090	36,925	889	34,810
Return Vented Lighting		0			
Return Air Ducts		2,755			1,740
Return Fan		0			0
Ventilation	1,078	-6,558	-8,371	1,078	46,032
Supply Fan		7,332			-7,332
Supply Air Ducts		2,755			1,740
TOTAL SYSTEM LOAD		61,373	28,555		76,990

HVAC EQUIPMENT SELECTION	Cooling Sensible	Cooling Latent	Heating Sensible
UFBB/DFBB=Bryant 925TA60100E21 or Eq.	0	0	222,000
Total Adjusted System Output (Adjusted for Peak Design conditions)	0	0	222,000
TIME OF SYSTEM PEAK	Jul 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Eureka Memorial Veterans Building	Date: 3/31/2016
System Name: *HFBN	Floor Area: 2,301

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	183,000
Total Output (Btuh)	183,000
Output (Btuh/sqft)	79.5
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	4,450
Airflow (cfm)	4,450
Airflow (cfm/sqft)	1.93
Airflow (cfm/Ton)	0.0
Outside Air (%)	9.8 %
Outside Air (cfm/sqft)	0.19

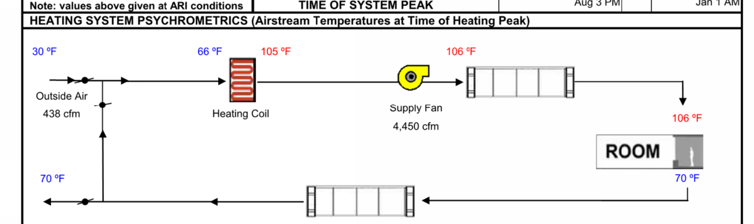
Note: values above given at ARI conditions

SYSTEM LOAD

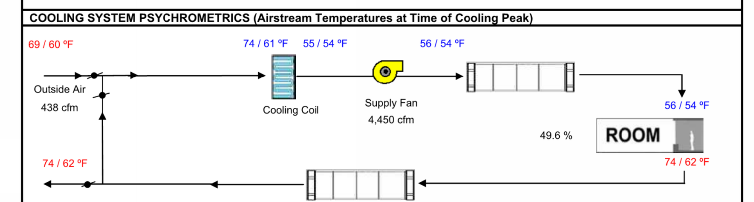
	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	830	16,014	8,599	678	26,077
Return Vented Lighting		0			
Return Air Ducts		801			1,304
Return Fan		0			0
Ventilation	438	-2,442	99	438	18,774
Supply Fan		4,552			-4,552
Supply Air Ducts		801			1,304
TOTAL SYSTEM LOAD		19,726	8,698		42,907

HVAC EQUIPMENT SELECTION	Cooling Sensible	Cooling Latent	Heating Sensible
HFBN= Bryant 925TA42060E17 or Eq.	0	0	183,000
Total Adjusted System Output (Adjusted for Peak Design conditions)	0	0	183,000
TIME OF SYSTEM PEAK	Aug 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name: Eureka Memorial Veterans Building	Date: 3/31/2016
System Name: *DFRR	Floor Area: 1,794

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	100,000
Total Output (Btuh)	100,000
Output (Btuh/sqft)	55.7
Cooling System	
Output per System	0
Total Output (Btuh)	0
Total Output (Tons)	0.0
Total Output (Btuh/sqft)	0.0
Total Output (sqft/Ton)	0.0
Air System	
CFM per System	1,275
Airflow (cfm)	1,275
Airflow (cfm/sqft)	0.71
Airflow (cfm/Ton)	0.0
Outside Air (%)	96.3 %
Outside Air (cfm/sqft)	0.68

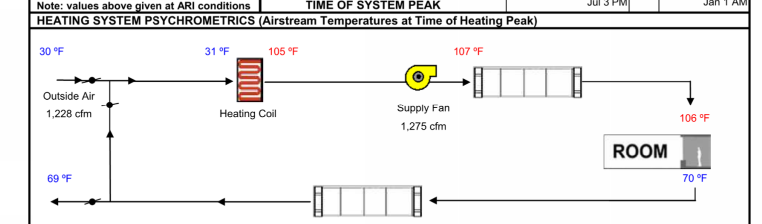
Note: values above given at ARI conditions

SYSTEM LOAD

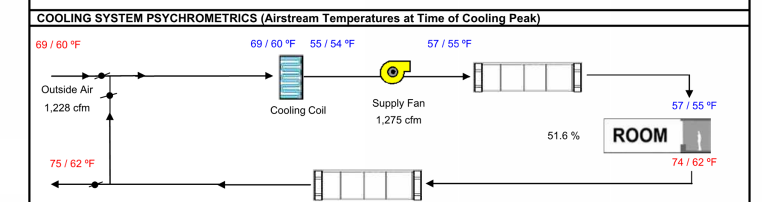
	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	766	13,886	3,890	786	30,159
Return Vented Lighting		0			
Return Air Ducts		694			1,508
Return Fan		0			0
Ventilation	1,228	-7,289	-1,917	1,228	51,507
Supply Fan		2,302			-2,302
Supply Air Ducts		694			1,508
TOTAL SYSTEM LOAD		10,289	1,972		82,380

HVAC EQUIPMENT SELECTION	Cooling Sensible	Cooling Latent	Heating Sensible
DFRR=Modine DBS-125 or Eq.	0	0	100,000
Total Adjusted System Output (Adjusted for Peak Design conditions)	0	0	100,000
TIME OF SYSTEM PEAK	Jul 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



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Sheet Title
TITLE 24 BUILDING ENERGY REPORT

Project Title
EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn	Reviewed
Date	
Scale	
Sheet No.	

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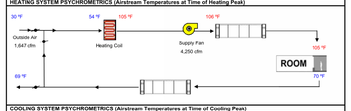
HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

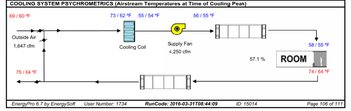
Project Name: Eureka Memorial Veterans Building
System Name: *UF111A&B
Date: 3/31/2016
Floor Area: 3,294

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	6,664	118,110	34,036	2,353	89,892
Output per System	117,000	Return Vented Lighting		0			
Total Output (Btuh)	234,000	Return Air Ducts		5,906			4,485
Output (Btuh/sqft)	71.0	Return Fan		0			0
Cooling System		Ventilation	1,647	-11,166	-10,483	1,647	69,360
Output per System	0	Supply Fan		6,069			-6,069
Total Output (Btuh)	0	Supply Air Ducts		5,906			4,485
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		124,824	23,553		161,893
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	2,100	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	4,200	UF111A&B=Bryant 925TA6612OE24 or Eq.		0	0		234,000
Airflow (cfm/sqft)	1.28						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	38.8 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		234,000
Outside Air (cfm/sqft)	0.50						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Aug 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

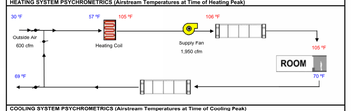


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

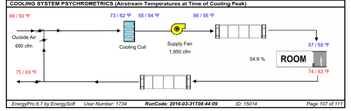
Project Name: Eureka Memorial Veterans Building
System Name: *HF1NW
Date: 3/31/2016
Floor Area: 1,529

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	3,411	43,966	12,126	1,133	42,532
Output per System	117,000	Return Vented Lighting		0			
Total Output (Btuh)	117,000	Return Air Ducts		2,140			2,127
Output (Btuh/sqft)	76.5	Return Fan		0			0
Cooling System		Ventilation	600	-3,898	-2,671	600	25,235
Output per System	0	Supply Fan		3,035			-3,035
Total Output (Btuh)	0	Supply Air Ducts		2,140			2,127
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		46,421	9,455		68,990
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	1,950	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	1,950	HF1NW=Bryant 925TA6612OE24A or Eq.		0	0		117,000
Airflow (cfm/sqft)	1.28						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	30.8 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		117,000
Outside Air (cfm/sqft)	0.39						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

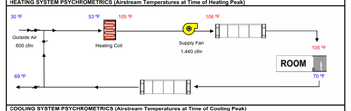


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

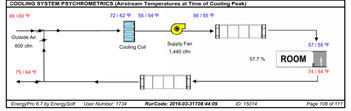
Project Name: Eureka Memorial Veterans Building
System Name: *UF1NE
Date: 3/31/2016
Floor Area: 1,404

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	1,614	39,844	12,134	808	30,826
Output per System	58,000	Return Vented Lighting		0			
Total Output (Btuh)	58,000	Return Air Ducts		1,443			1,541
Output (Btuh/sqft)	41.3	Return Fan		0			0
Cooling System		Ventilation	600	-4,048	-4,117	600	25,235
Output per System	0	Supply Fan		2,302			-2,302
Total Output (Btuh)	0	Supply Air Ducts		1,443			1,541
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		30,004	8,016		56,838
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	1,440	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	1,440	UF1NE= Bryant 925TA3006E1A or Eq.		0	0		58,000
Airflow (cfm/sqft)	1.03						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	41.7 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		58,000
Outside Air (cfm/sqft)	0.43						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 2 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

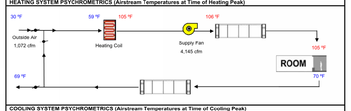


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

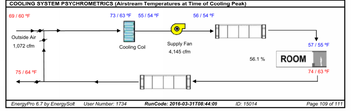
Project Name: Eureka Memorial Veterans Building
System Name: UF1LOB
Date: 3/31/2016
Floor Area: 2,660

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	3,502	66,456	29,805	1,954	73,401
Output per System	139,000	Return Vented Lighting		0			0
Total Output (Btuh)	139,000	Return Air Ducts		3,333			3,690
Output (Btuh/sqft)	52.3	Return Fan		0			0
Cooling System		Ventilation	1,072	-6,641	-5,927	1,072	45,281
Output per System	0	Supply Fan		3,793			-3,793
Total Output (Btuh)	0	Supply Air Ducts		3,333			3,690
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		70,478	23,905		122,675
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	4,145	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	4,145	UF1LOB=Bryant 925TA3004OE14 or Eq.		0	0		139,000
Airflow (cfm/sqft)	1.56						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	25.9 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		139,000
Outside Air (cfm/sqft)	0.40						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

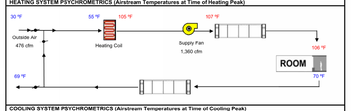


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

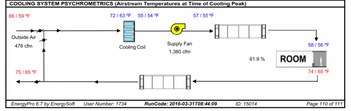
Project Name: Eureka Memorial Veterans Building
System Name: *HF1SE
Date: 3/31/2016
Floor Area: 1,139

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	2,343	39,376	16,173	747	29,067
Output per System	78,000	Return Vented Lighting		0			0
Total Output (Btuh)	78,000	Return Air Ducts		1,969			1,453
Output (Btuh/sqft)	68.5	Return Fan		0			0
Cooling System		Ventilation	476	-4,555	-5,035	476	20,024
Output per System	0	Supply Fan		3,035			-3,035
Total Output (Btuh)	0	Supply Air Ducts		1,969			1,453
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		41,796	11,135		48,963
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	1,380	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	1,380	HF1SE=Bryant 925TA4008OE21 or Eq.		0	0		78,000
Airflow (cfm/sqft)	1.10						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	35.0 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		78,000
Outside Air (cfm/sqft)	0.40						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Aug 12 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

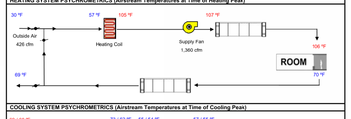


HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

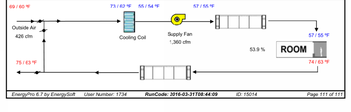
Project Name: Eureka Memorial Veterans Building
System Name: *UFMN
Date: 3/31/2016
Floor Area: 885

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
Number of Systems	1		CFM	Sensible	Latent	CFM	Sensible
Heating System		Total Room Loads	1,196	21,535	7,254	451	24,084
Output per System	78,000	Return Vented Lighting		0			
Total Output (Btuh)	78,000	Return Air Ducts		1,077			1,254
Output (Btuh/sqft)	88.1	Return Fan		0			0
Cooling System		Ventilation	426	-2,633	-1,505	426	17,975
Output per System	0	Supply Fan		2,302			-2,302
Total Output (Btuh)	0	Supply Air Ducts		1,077			1,254
Total Output (Tons)	0.0						
Total Output (Btuh/sqft)	0.0	TOTAL SYSTEM LOAD		23,358	5,749		43,263
Total Output (sqft/Ton)	0.0						
Air System							
CFM per System	1,340	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	1,340	UFMN=Bryant 925TA4808OE17 or Eq.		0	0		78,000
Airflow (cfm/sqft)	1.54						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	31.3 %	Total Adjusted System Output (Adjusted for Peak Design conditions)		0	0		78,000
Outside Air (cfm/sqft)	0.48						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



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TITLE 24 BUILDING ENERGY REPORT

Sheet Title

EUREKA VETERANS MEMORIAL BUILDING
- SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

Project Title

Project ID

No.	Date	Appr	Revision Notes
			SUBMITTAL

Drawn | Reviewed

Date

Scale

Sheet No.

T-8

PLANTING SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	COUNT	SIZE	PLANT CARE/MAINTENANCE	WATER NEEDS
DECIDUOUS TREES						
WB	Acer Rubrum 'Bowhall'	Narrow Red Maple	5	15 gal	Deciduous cleanup	Regular water until established
AA	Acer Rubrum 'Autumn Blaze'	Red Maple	1	4" box	Deciduous cleanup	Regular water until established
EVERGREEN TREES						
LA	Luma apiculata (Myrtus luma)	Luma	4	10 gal	Prune as needed	Regular water until established
SHRUBS						
	Juniperus horizontalis 'Wiltonii'	Blue Rug Juniper	10	5 gal	Prune as needed	Moderate
BT	Berberis thunbergii 'Cherry Bomb'	Barberry	29	5 gal	Prune as needed	Moderate
BS	Buxus sempervirens 'Argenteovariegata'	Variegated Boxwood	22	5 gal	Prune as needed	Moderate
PF	Potentilla fruticosa 'McKay's White'	Cinquefoil	25	5 gal	Prune as needed	Moderate
RO	Rhododendron odoriferum	Fragant White Rhododendron	10	5 gal	Prune as needed	Moderate
MISC.						
	Turf	Hydroseed or Sod	2827	SF	Cut Regularly, Fertilize yearly.	Water regularly

LANDSCAPE KEY NOTES

1. EXISTING HOSE BIBS
2. NEW HOSE BIB
3. NEW 3 ZONE IRRIGATION SYSTEM
4. NEW 5 ZONE IRRIGATION SYSTEM
5. NEW 4" PIPE SLEEVES
6. VISUAL CLEARANCE AREA PER CITY OF EUREKA'S STANDARDS

IRRIGATION NOTES:

PROVIDE DESIGN-BUILD IRRIGATION AS OUTLINED BELOW:

1. TWO SEPARATE IRRIGATION SYSTEMS
   - SOUTH SYSTEM: (3) ZONES TOTAL
     - (2) ZONES FOR TURF, (1) ZONE FOR PLANTERS
   - NORTH SYSTEM: (5) ZONES TOTAL
     - (2) ZONES FOR TURF, (2) ZONES FOR NE PLANTER, (1) ZONE FOR REMAINING PLANTERS
2. POINTS OF CONNECTION:
   - NORTH SYSTEM: EXISTING HOSE BIB LOCATED AT NW CORNER OF THE BUILDING TO BE UTILIZED TO CONNECT INTO EXISTING WATER SERVICE & METER.
   - SOUTH SYSTEM: NEW HOSE BIB LOCATED AT S EDGE OF THE BUILDING TO BE UTILIZED TO CONNECT INTO EXISTING WATER SERVICE & METER.
3. INSTALL DOUBLE CHECK VALVE BACKFLOW PREVENTER DEVICE PER SITE UTILITY PLANS & DETAILS.
4. INSTALL AVB AUTOMATIC VACUUM BREAKER VALVE.
5. INSTALL SHUT OFF VALVES (HUNTER, RAINBIRD OR EQUAL): BRONZE BALL VALVE, IN-GROUND BOX.
6. PIPING: ALL MAIN LINES, LATERAL LINES, FITTINGS, RISERS, ETC. SHALL BE SCHED. 40 PVC 1" PIPE.
7. CONTROLS: COMMERCIAL GRADE AUTOMATED IRRIGATION CONTROL BOX. COORDINATE WITH ARCHITECT AND ELECTRICAL CONTRACTOR.
8. PIPE SLEEVE: SCHEDULE 40 PVC 4" SLEEVE TO BE INSTALLED UNDER PAVING OR CONSTRUCTION, 6" BELOW DRIVEABLE SURFACES.
9. PROVIDE WYE FILTER ON EACH ZONE.
10. PROVIDE FLUSH VALVE AT THE END OF EACH LINE. COVER WITH IN-GROUND BOX
11. SPRINKLER HEADS: STAINLESS STEEL ROTER HEAD (HUNTER 120 OR EQUAL). LOCATED EVERY 15'-0" IN TURF AREA.

DRIP SPECIFICATIONS:

1. DRIP LINE: POLY 1/2" MAINLINE TUBING.
2. EMITTERS:
   - (1) 2 GPH PER PLANT/PER WEEK.
   - (3) 2 GPH PER TREES

INITIAL SCHEDULING:

1. DRIP ZONES: SET AUTOMATIC TIMER CONTROL TO IRRIGATE PLANTS 1 TIME A WEEK FOR 1 HOUR DURING DRY SEASONS (USUALLY MAY-NOV).

DEMONSTRATION & TRAINING:

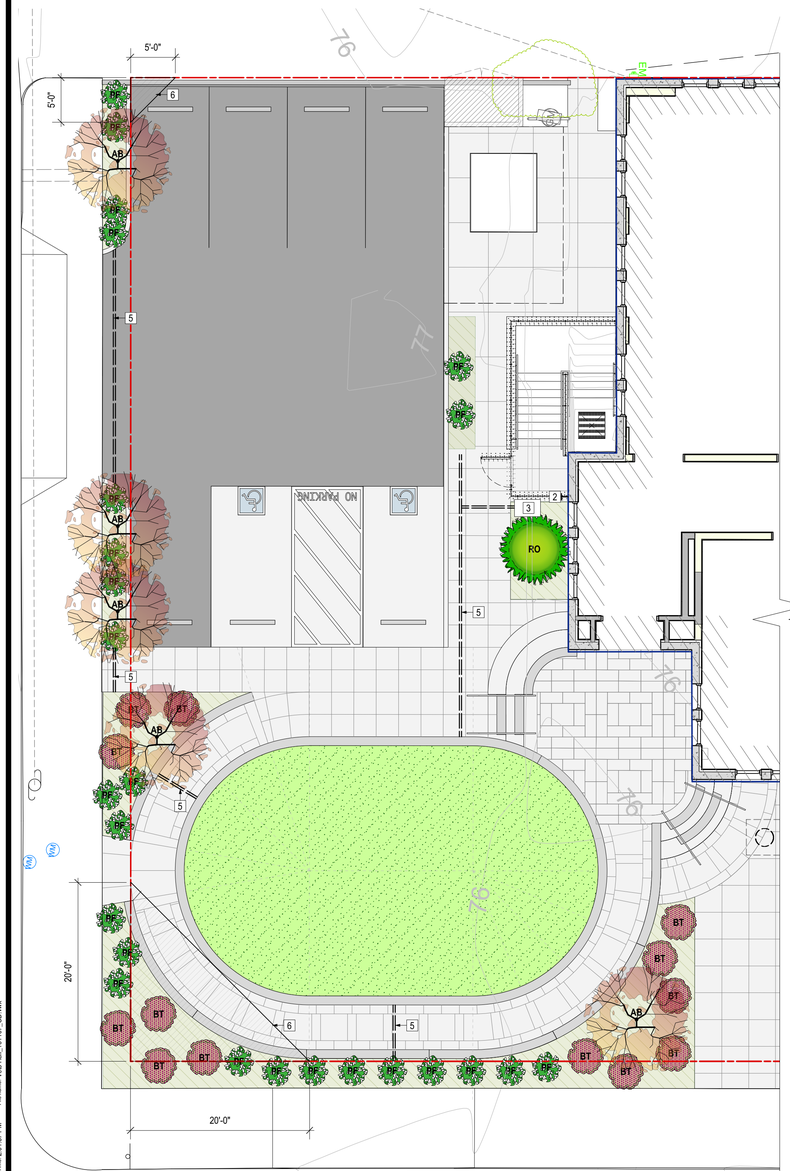
1. PROVIDE TRAINING FOR OWNER'S REPRESENTATIVE ON OPERATING, MAINTAINING, AND ADJUSTING ALL IRRIGATION SYSTEM COMPONENTS. CONTRACTOR TO SUPPLY AS-BUILT PLANS OF IRRIGATION INSTALLATION.

MULCH NOTES:

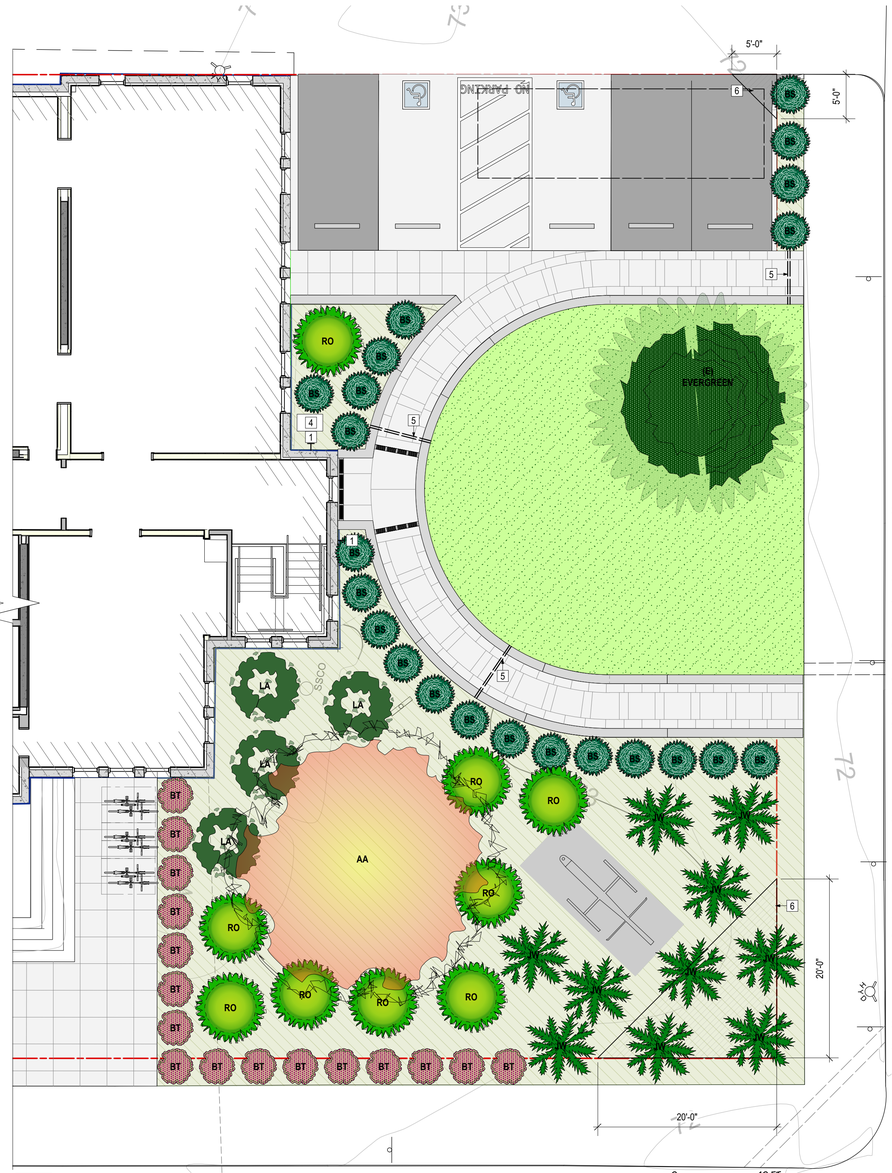
1. PREPARE NEW AND EXISTING PLANTING AREAS WITH TOP SOIL AND AMENDMENTS TO A DEPTH OF A MIN. 18 INCHES.
2. MULCH ALL PLANTED AREAS WITH 2 INCHES OF MEDIUM PINE BARK MULCH.
3. DO NOT USE "WEED MAT" PRODUCTS.

GENERAL NOTES:

1. COORDINATE W/ STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL PLANS
2. REFER TO APPLICABLE SPECIFICATIONS.



2 SOUTHERN LANDSCAPE PLAN
Scale: 1/8" = 1'-0"



1 NORTHERN LANDSCAPE PLAN
Scale: 1/8" = 1'-0"

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NOT FOR CONSTRUCTION FOR PLAN CHECK COMMENTS ONLY

Sheet Title: LANDSCAPE PLAN

Project Title: EUREKA VETERANS MEMORIAL BUILDING - SEISMIC REPAIRS PROJECT -
1018 H ST. | EUREKA, CA | 95501
APN: 005-023-002

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No.	Date	Appr	Revision Notes

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