MENTAL HEALTH CENTER ACCESSIBILITY MODIFICATIONS

Sempervirens Psychiatric Health Facility COUNTY OF HUMBOLDT

720 WOOD STREET EUREKA, CA 95502

PLAN CHECK RESUBMITTAL

B

A.B.

ADM. ALS

ALT.

ALUM.

ARCH.

BLDG.

BLK.

BLKG.

B.N.

BOT

BTR.

CAB.

CAC.

CAT.

CER.

C.J.

CLR.

C.O.

COL.

CONC.

CONN.

CONTR.

C.M.U.

CSPE

DBL.

DET. D.F.

DIAG.

DIA. DIM.

DN.

DP.

DR. D.S.

DSA

E.F.

ELEV

ELEC. EMT E.N.

E.Q. EQPT.

E.S.

E.W.

EXIST.

EXP.

EXT.

FDN.

FIN.

F.J.

F.N.

F.O.C

F.O.F

F.O.M.

F.O.S.

FRMG.

FT.

GA.

GAL.

GALV

GSS

GRD.

GSA

GLB

FL.

FHWS

FIN. FL.

FLUOR.

D

CONT.

CLG.

BRD.

APPROX.

ACOUS.

ANCHOR BOLTS

ADMINISTRATIVE

ASSISTIVE LISTENING

ACOUSTICAL

SYSTEM

BUILDING

BLOCKING

BOTTOM

BOARD

BETTER

CABINET

CATWALK

CFRAMIC

CEILING

OFFICER

COLUMN

UNIT

CONCRETE

CONNECTION

CONTINUOUS

CONTRACTOR

POLYETHYLENE

("HYPALON")

DOUGLAS FIR

DIAGONAL

DIAMETER

DIMENSION

DOWNSPOUT

ARCHITECT

EACH FACE

ELEVATION

ELECTRICAL

EDGE NAIL

EQUIPMENT

EACH SIDE

EACH WAY

EXPANSION

FOUNDATION

FINISH FLOOR

FLOOR JOIST

FLUORESCENT

FACE OF FINISH

FACE OF STUD

FACE OF CONCRETE

FACE OF MASONRY

FIELD NAIL

FRAMING

FOOT/FEET

GAUGE

GRADE

GALLON

GALVANIZED

GALVANIZED SHEET STEL

GLUE LAMINATED BEAM

GENERAL SERVICES

ADMINISTRATION

EXISTING

EXTERIOR

FINISH

FLOOR

EQUAL

EXPANSION JOINT

DIVISION OF THE STATE

ELEC. METALLIC TUBING

FLAT HEAD WOOD SCREV

DOUBLE

DETAIL

DOWN

DEEP

DOOR

EACH

CLEAR

CEM. PLAS. CEMENT PLASTER

BLOCK

BFAM

ALTERNATE

ALUMINUM

APPROXIMATE

ARCHITECTURA

BOUNDARY NAIL

CALIFORNIA ADMIN-

CONSTRUCTION JOINT

(GSA) CONTRACTING

CONCRETE MASONRY

CHLOROSULFONATED

ISTRATIVE CODE

Α

ABBREVIATIONS GALVANIZED SHEET METAL G.S.M. GYP. BD.

H.D.

HMA

H.S.B.

HT.

HDR.

IN.

I.D.

INSUL

ISA

JT.

JST.

LVT

MAX.

M.B.

MET.

MFR.

MIN.

N/A

N.I.C.

NOM.

N.T.S.

O.C.

O.H.

OLA

OPP.

PERIM.

PBS

PL.

P.L.

P.N.

P.S.F.

P.S.I.

P.T.

RAD.

REINF.

REQD.

RES.

R.O.

R.S.

RO.

SA

SCD

SHT.

S.H. SIM.

SLDR.

S.O.G.

SPEC(S)

SMD

SQ.

S.S.

S.S.D

S.S.P.

SYM.

T.&B.

T.&G.

T.C.

TEL.

TERR.

T.O.C.

T.O.PL.

T.O.S.

T.O.SF.

T.O.W.

STRUC.

RDWD.

R.W.L.

PT.

P.C.C.

P.LAM.

PLYWD.

MECH.

MEZZ.

GYPSUM BOARD HOLD-DOWN HAZARDOUS MATERIALS ABATEMENT HORIZ. HORIZONTAL HIGH STRENGTH BOLTS HEIGHT HEADER

> INCH(ES) INSIDE DIAMETER INSULATION INTERNATIONAL SYMBOL OF ACCESS JOINT JOIST

LAMINATE VINYL TILE

MAXIMUM MACHINE BOLTS MECHANICAL METAL MEZZANINE MANUFACTURER MINIMUM NOT APPLICABLE

NOT IN CONTRACT NOMINAL NOT TO SCALE ON CENTER **OPPOSITE HAND**

OFFICE OF LOCAL ASSISTANC OPPOSITE PERIMETER PUBLIC BUILDINGS SERVICE PRECAST CONCRETE PLATE PROPERTY LINE PLASTIC LAMINATE PLYWOOD PLATE NAIL POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED

RISER RADIUS REINFORCEMENT REQUIRED RESILIENT ROUGH OPENING ROUGH SAWN REDWOOD ROUGH RAIN WATER LEADER SUSPENDED ACOUSTICAL

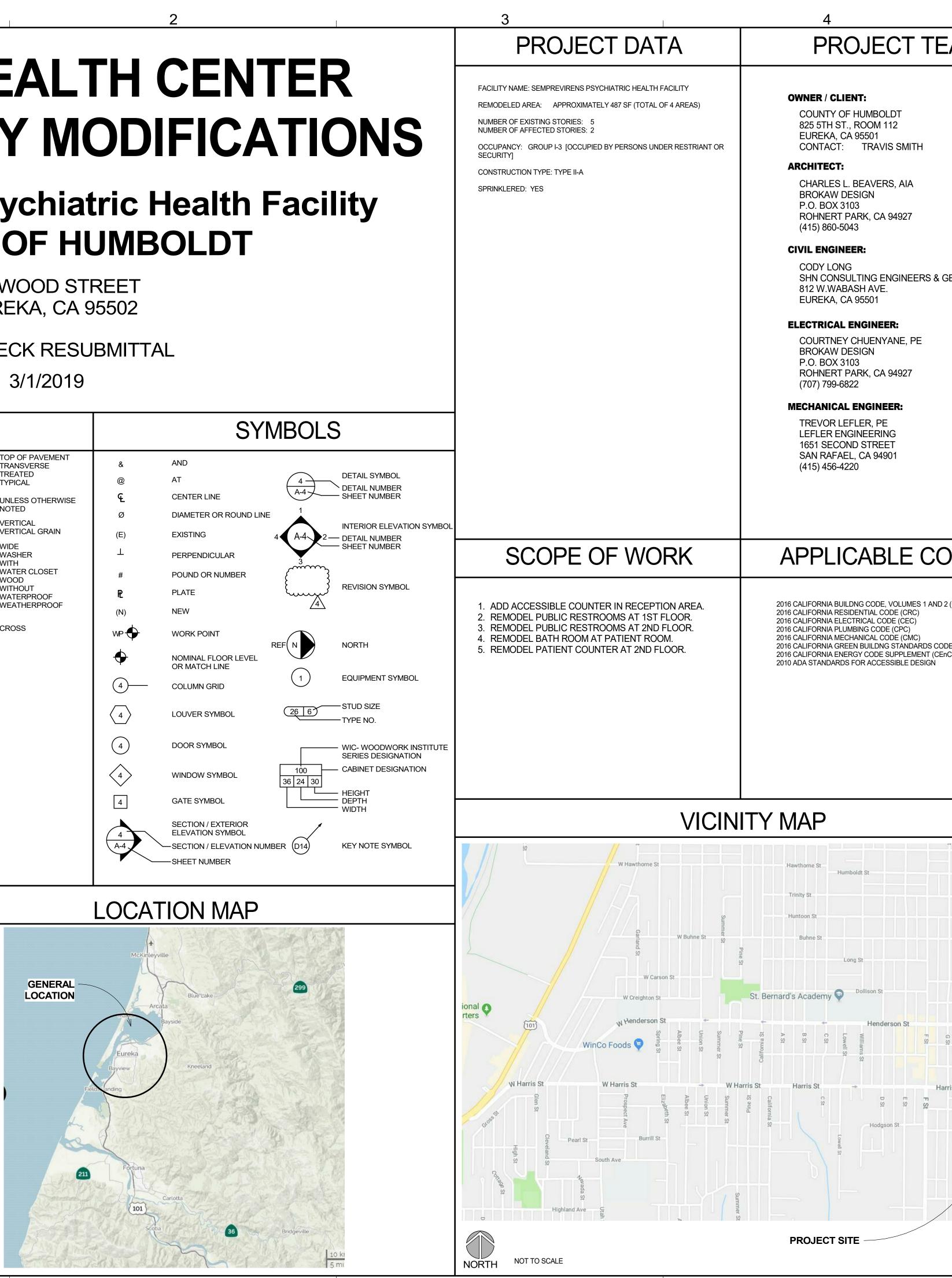
POINT

SEE CIVIL DRAWINGS SHEET SINGLE HUNG SIMILAR SLIDER SEE MECHANICAL DRAWINGS SLAB ON GRADE SPECIFICATION(S) SQUARE STAINLESS STELL SEE STRUCTURAL DRAWINGS STANDARD STEEL PIPE STRUCTURAL SYMMETRICAL

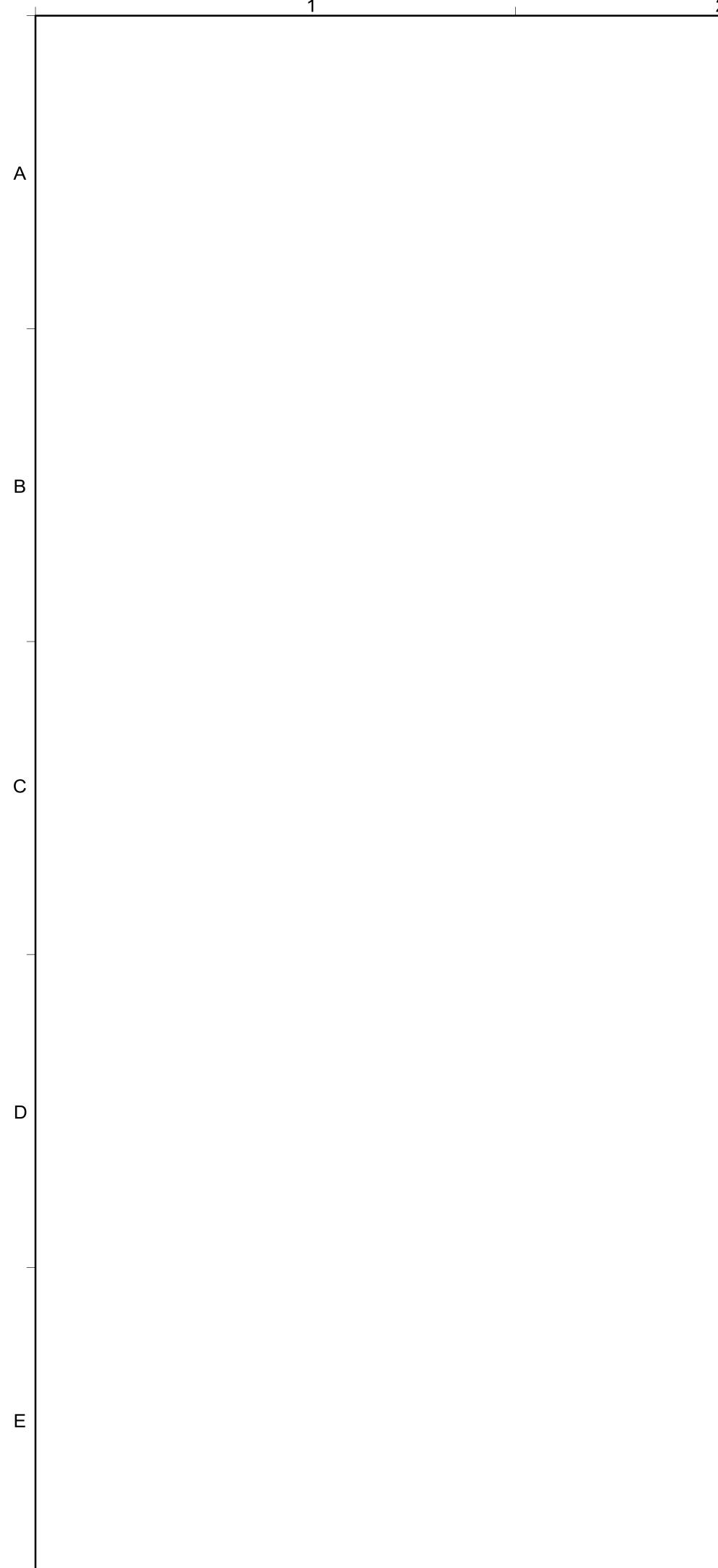
TREAD TOP AND BOTTOM TONGUE AND GROOVE TOP OF CURB TELEPHONE TERRAZZO TOP OF CONCRETE TOP OF PLATE LINE TOP OF STEEL TOP OF SUBFLOOR TOP OF WALL

TOP OF PAVEMENT T.P. TRANSVERSE TRANSV. TREATED TR. a TYP. TYPICAL UNLESS OTHERWISE U.O.N. NOTED Ø VERT. VERTICAL VG. VERTICAL GRAIN (E) W. WIDE WASH. WASHER WITH W/ W/C WATER CLOSET WD. WOOD W/O WITHOUT WP. WATERPROOF WPF. WEATHERPROOF (N) CROSS Х WP 🔁 4 $\langle 4 \rangle$ 4

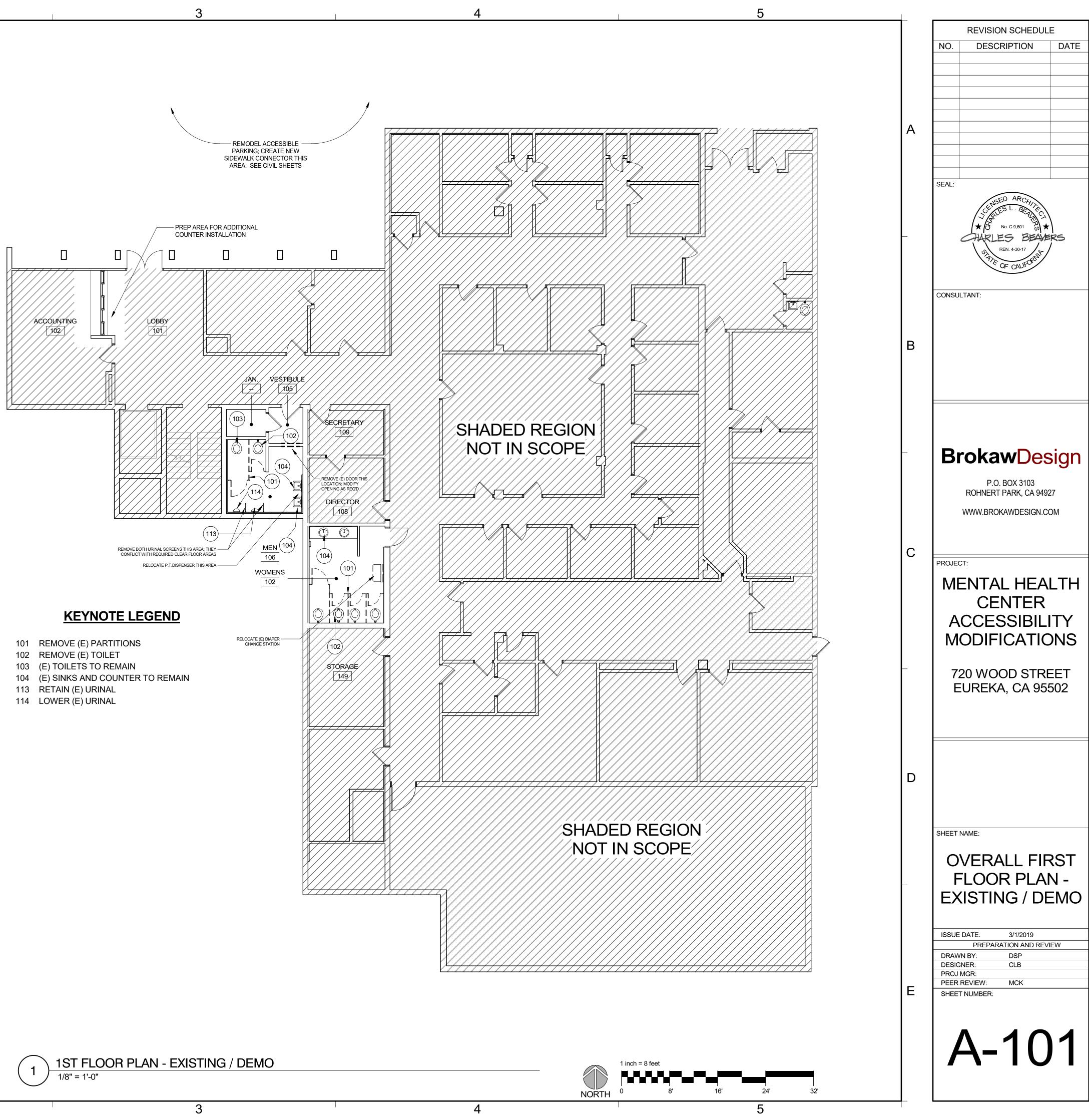
OR MATCH LINE COLUMN GRID LOUVER SYMBOL DOOR SYMBOL WINDOW SYMBOL GATE SYMBOL

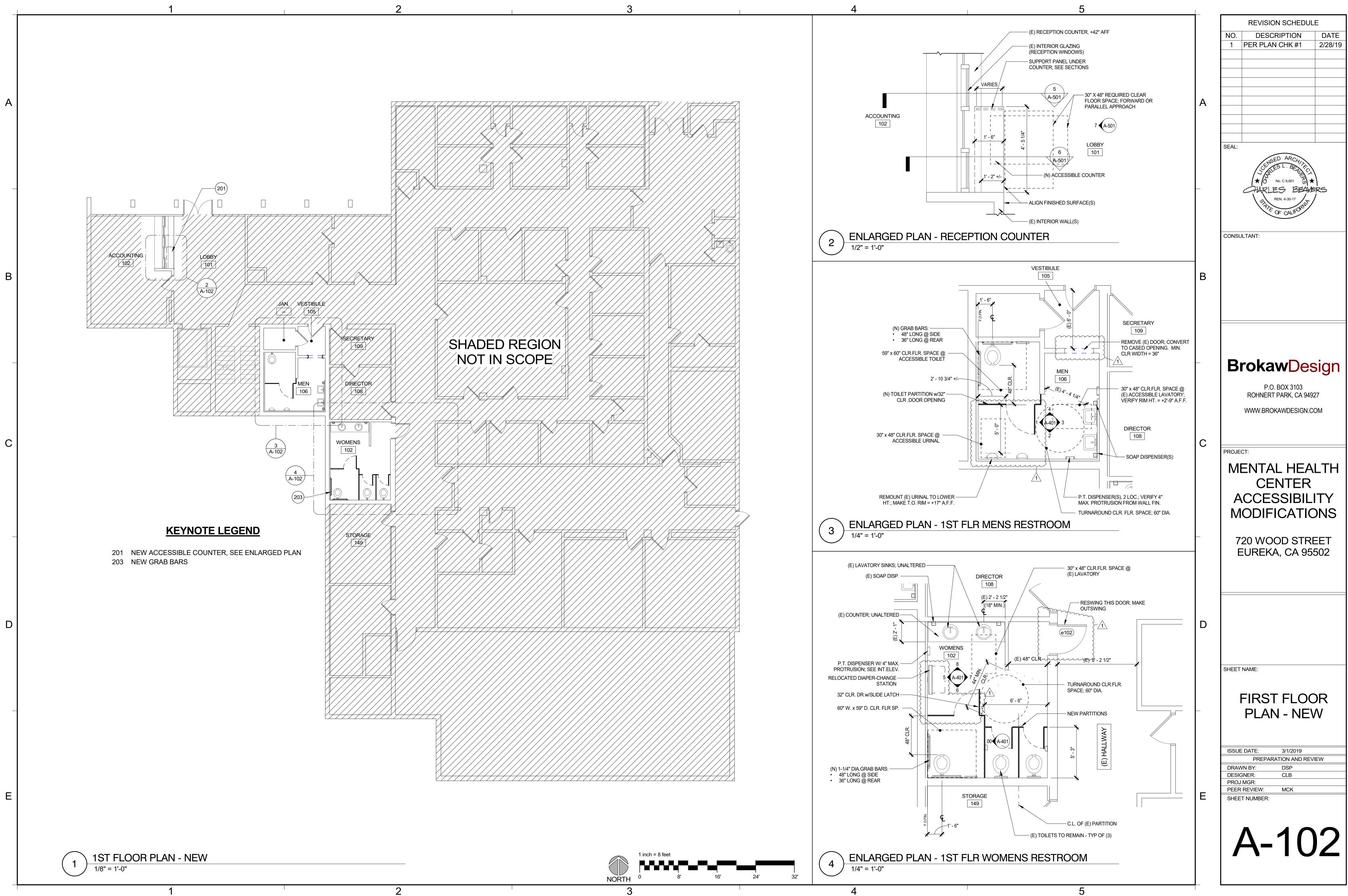


	5				
EAM	DRAWING INDEX	_	NO.	REVISION SCHEDU	LE DATE
	ARCHITECTURAL SHEETS				
	 A-001 COVER A-101 OVERALL FIRST FLOOR PLAN - EXISTING / DEMO A-102 FIRST FLOOR PLAN - NEW A-201 OVERALL 2ND FLOOR PLAN - EXISTING / DEMO A-202 SECOND FLOOR PLAN - NEW A-401 INTERIOR ELEVATIONS A-501 DETAILS 	A			
	A-502 SIGNAGE DETAILS A-503 METAL WALL FRAMING DETAILS		REVISED	SET PER CASp REVIEW; 1/31/	2019
	<u>CIVIL SHEETS</u>		SEAL:		
GEOLOGISTS	G-1COVERG-2STANDARD ABBREVIATIONS & LEGENDSG-3PROJECT NOTES & SPECIFICATIONSG-4EROSION CONTROL NOTES & DETAILSC-1DEMOLITION PLANC-2SITE LAYOUT PLANC-3GRADING & DRAINAGE PLANC-4DETAILS		CONSUL	CENSED ARCHINCO	ERS
	MECHANICAL & PLUMBING SHEETS MP101 MECHANICAL & PLUMBING SCHEDULES / DETAILS				
	MP101 MECHANICAL & PLOMBING SCHEDOLES / DETAILS / LEGENDS MP201 MECHANICAL - 1ST FLOOR MP202 MECHANICAL - 2ND FLOOR PLAN	В			
	ELECTRICAL SHEETSE001ELECTRICAL LEGEND AND ABBREVIATIONSE002ELECTRICAL SHEET SPECIFICATIONSE003ELECTRICAL PLAN - 1ST FLOORE004ELECTRICAL - 2ND FLOOR				
			R	okawDe	sian
DDES				P.O. BOX 3103 ROHNERT PARK, CA 94	Ŭ
2 (CBC)			,	WWW.BROKAWDESIGN.C	СОМ
DE (CGBSC) nC)	GENERAL NOTES	С	PROJEC	т.	
	 NEW CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL EITHER BE UNPREFIXED OR PREFIXED BY "NEW" OR "(N)". 				LTH
	 EXISTING CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL ALWAYS BE PREFIXED BY "EXIST" OR "(E)". 			CENTER	
	3. CONTRACTOR TO VERIFY ALL CONDITIONS AND MEASUREMENTS OF AS- BUILT CONSTRUCTION AFFECTING PROPOSED WORK. ANY/ALL INCONSISTENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH WORK.			ODIFICATIO	
	4. INFORMATION ON EXISTING CONDITIONS WAS OBTAINED FROM DRAWINGS PROVIDED BY THE OWNER AND FROM VERY LIMITED OBSERVATIONS. THE ARCHITECT ASSUMES THESE SOURCES TO BE RELIABLE AND OBSERVED CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE. HOWEVER, ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL EXCERCISE DUE DILIGENCE IN VERIFYING ACTUAL CONDITIONS.			20 WOOD STR UREKA, CA 95	
~ ¥ _t	5. THIS PROJECT INVOLVES REMOVAL OF PORTIONS OF EXISTING BUILDING SYSTEMS AND THEIR RECONSTRUCTION TO SUIT THE PROPOSED DESIGN. THESE DOCUMENTS INDICATE REQUIREMENTS FOR THE PRIMARY INTERFACE BETWEEN EXISTING AND CONSTRUCTION. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND ESTABLISH ALL OTHER INTERFACE CONDITIONS WHICH				
Huntoon St	MAY BE REQUIRED AND DEEMED MOST SUITABLE TO SUIT THE PROPOSED DESIGN.6. THESE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS AND/OR	D			
Buhne St	DISTANCES. WRITTEN DIMENSIONS SHALL GOVERN. 7. DETAILS OF BUILDING ASSEMBLIES SHALL BE UNDERSTOOD TO REPRESENT SIMILIAR CONDITIONS OF ADJACENT CONSTRUCTION.				
€ S Carson St	8. ALL DOOR HARDWARE LISTED OR SPECIFIED SHALL BE VERIFIED AND/OR CONFIRMED BY AN ARCHTIECTURAL HANDWARE CONSULTANT [AHC] FOR THE INDICATED APPLICATION. ANY/ALL QUESTIONS OR UNCERTAINITIES REGARDING LOCK FUNCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE ANY MATERIAL ORDER OR		SHEET N	IAME:	
Hendersor	 INSTALLATION. 9. ALL WORK SHALL BE COMPLETED ACCORDING TO PREVAILING INDUSTRY STANDARDS, AND COMPLETED WITH GOOD WORKMANSHIP AS DETERMINED BY PRUDENT PRACTICE. 	_		COVER	
Arris St	10. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FACILITIES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED CONSTRUCTION AT THEIR OWN EXPENSE. SUCH REPAIR SHALL BE MADE TO THE SATISFACTION OF OWNER'S REPRESENTATIVE.		ISSUE	DATE: 3/1/2019	
arris St T St St St St St St St St St St St St St	11. DETAILS NOT SPECIFICALLY SHOWN SHALL BE OF THE SAME NATURE AS THAT OF SIMILIAR CONDITIONS.		DRAW		VIEW
ulyer	12. NO SINGLE DRAWING OR SHEET SHALL BE INTEPRETED TO REPRESENT ALL ASPECTS OF THE WORK. THESE DRAWING SHEETS SHALL NOT BE SEPARATED, ARE A MUTUALLY INCLUSIVE REPRESENTATION OF THE WORK.	E	SHEET	0	1
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I	5		·		

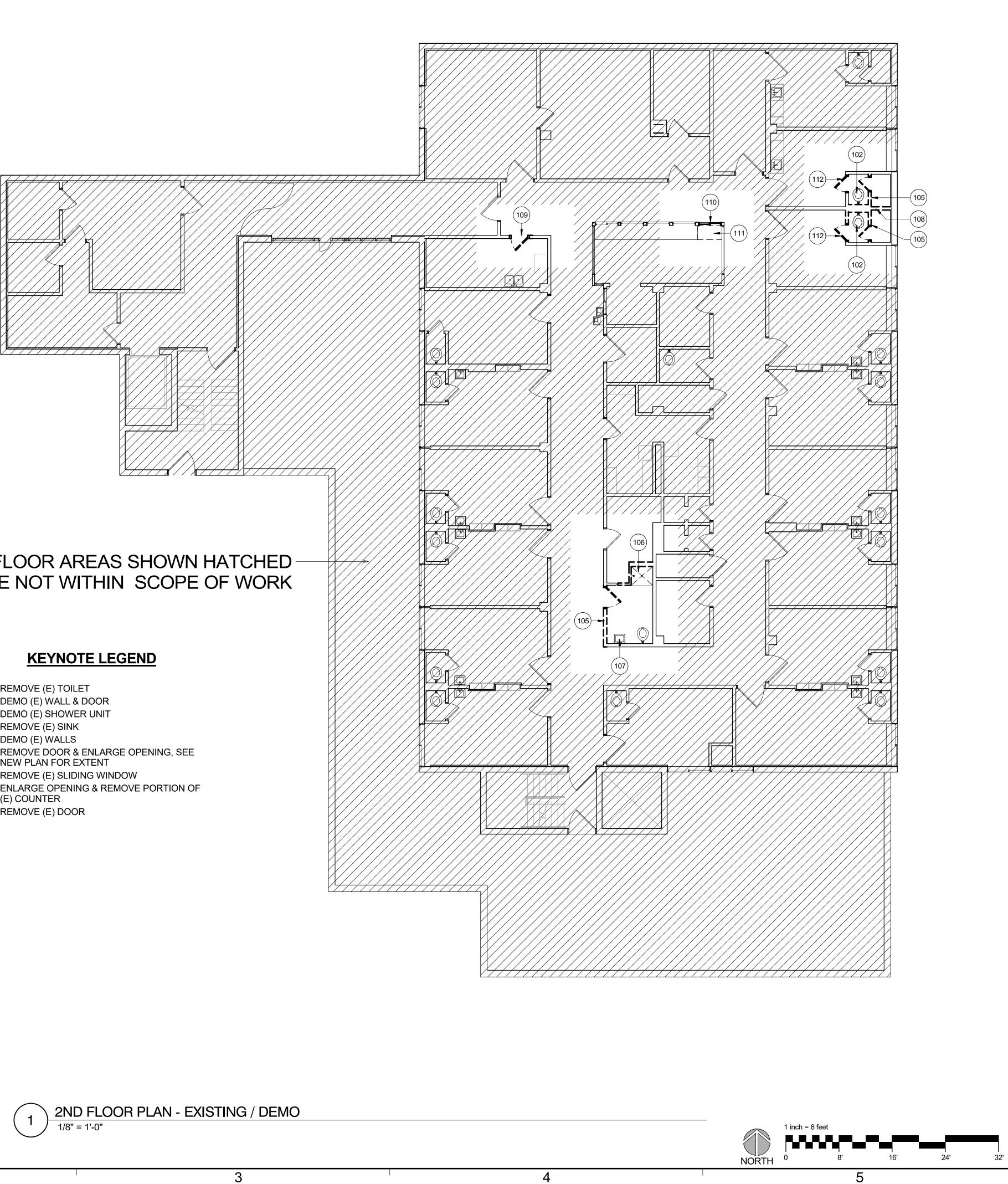




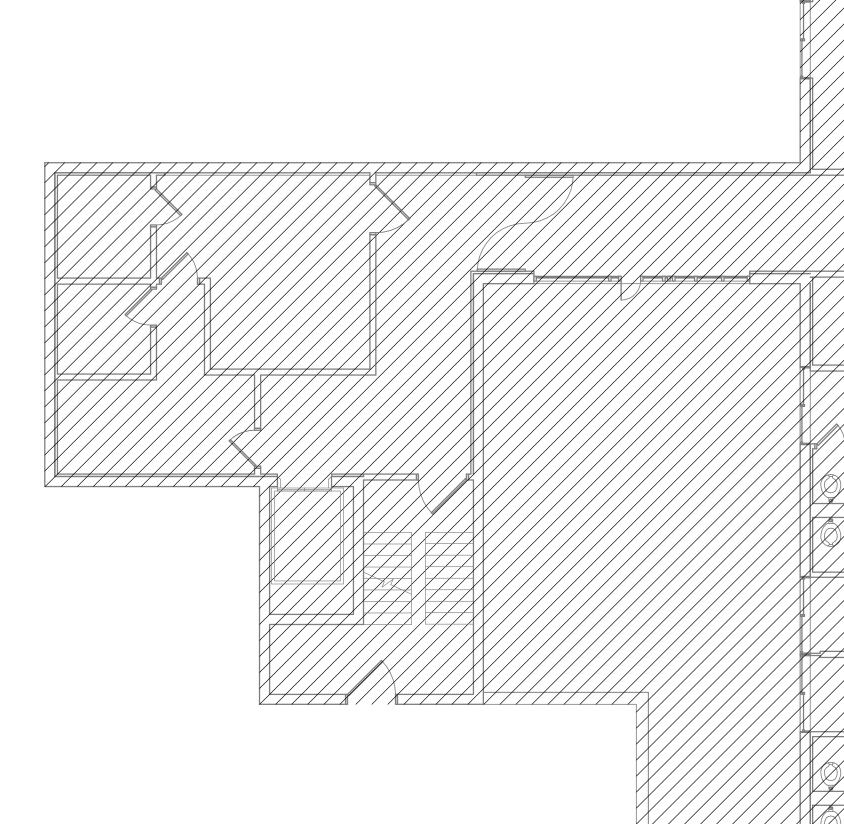




	•		
Α			
B			
С			FL ARE
D			102 REI 105 DEI 106 DEI 107 REI 108 DEI 109 REI 109 REI 110 REI 111 ENI (E) 112 REI
_			
E			







KEYNOTE LEGEND

203 NEW GRAB BARS

Α

B

С

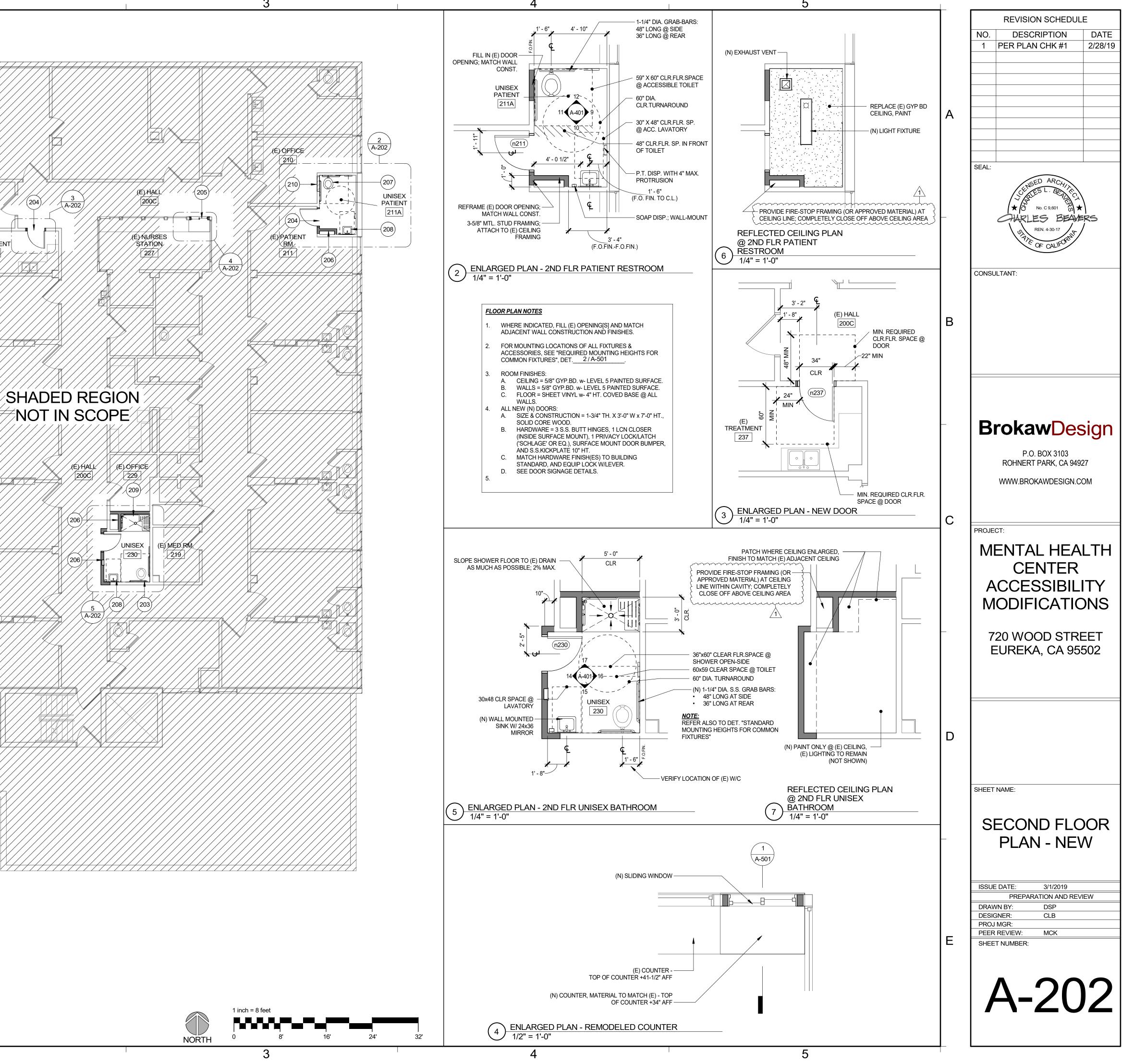
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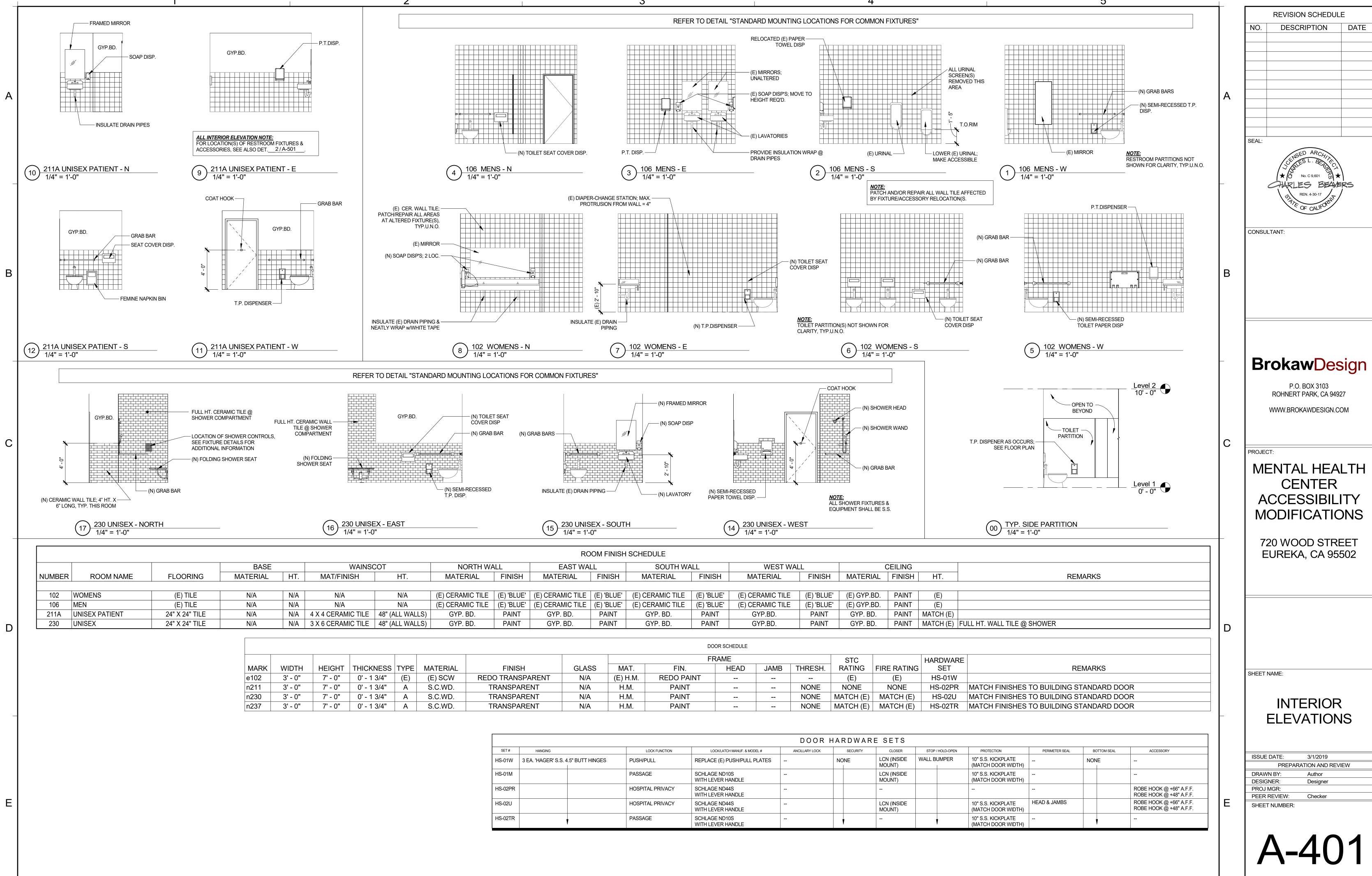
- 204 NEW LARGER DOOR, SEE DOOR SCHEDULE
- 205 NEW LOWERED ACCESSIBLE SERVICE COUNTER W/ NEW SLIDING WINDOW
- 206 NEW WALLS, SEE ENLARGED PLAN FOR LOCATION
- 207 NEW TOILET 208 NEW LAVATORY
- 209 NEW ROLL-IN SHOWER UNIT
- 210 FRAME/FINISH OPENING WHERE DOOR REMOVED

2

(204)́/

/237



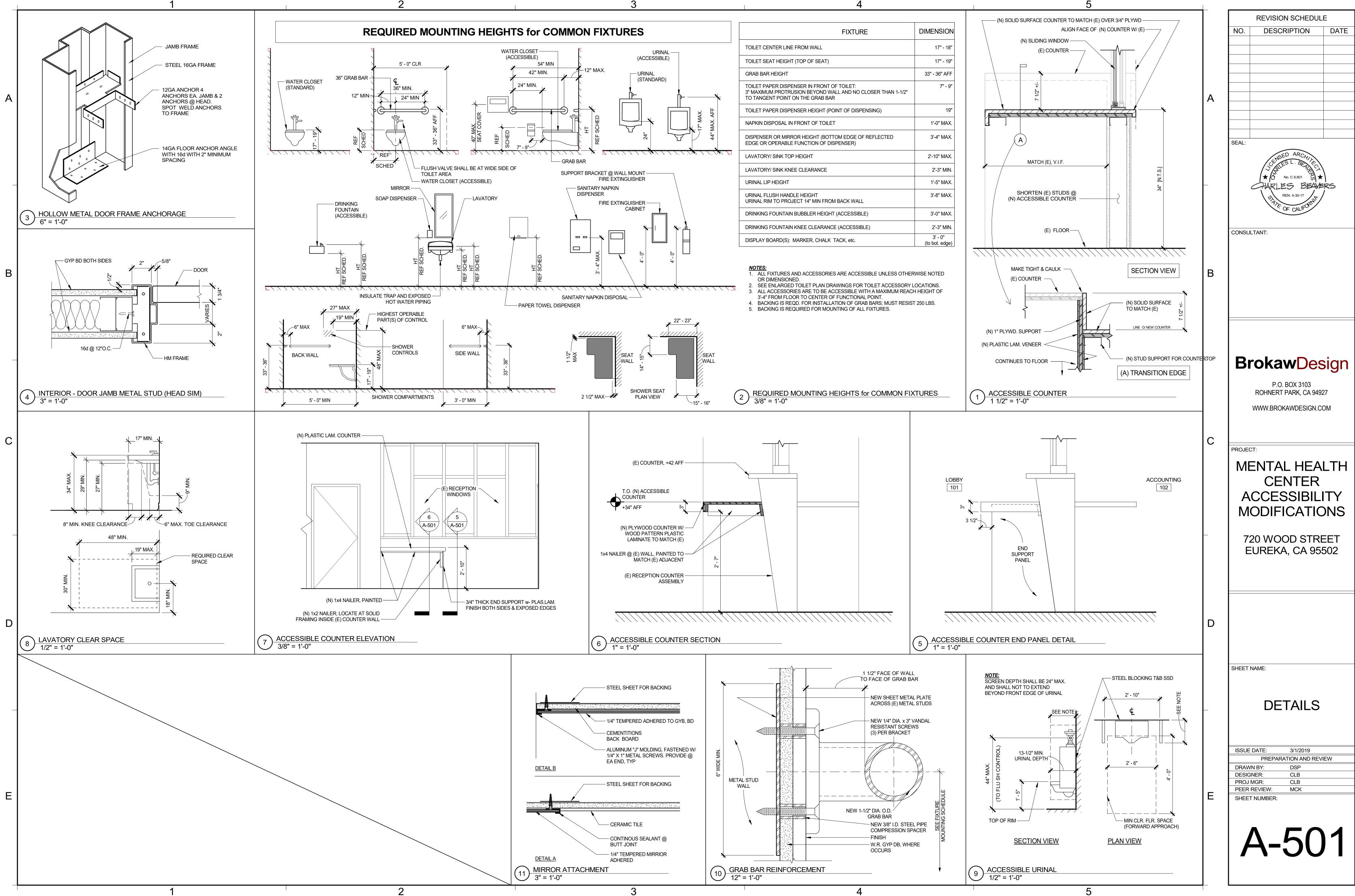


			BASE		WAINSO	NOR	
NUMBER	ROOM NAME	FLOORING	MATERIAL	HT.	MAT/FINISH	HT.	MATERIA
102	WOMENS	(E) TILE	N/A	N/A	N/A	N/A	(E) CERAMIC
106	MEN	(E) TILE	N/A	N/A	N/A	N/A	(E) CERAMIC
211A	UNISEX PATIENT	24" X 24" TILE	N/A	N/A	4 X 4 CERAMIC TILE	48" (ALL WALLS)	GYP. BD
230	UNISEX	24" X 24" TILE	N/A	N/A	3 X 6 CERAMIC TILE	48" (ALL WALLS)	GYP. BD

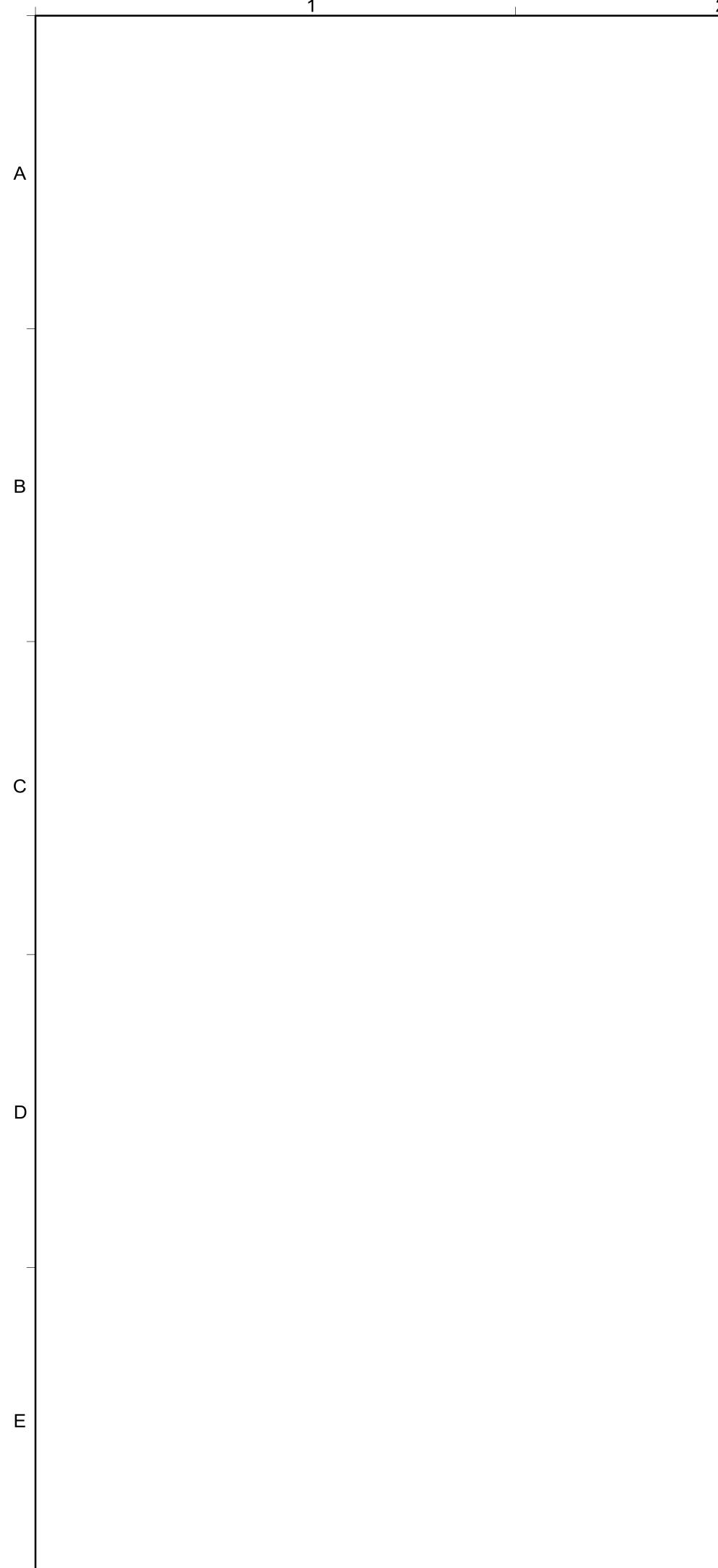
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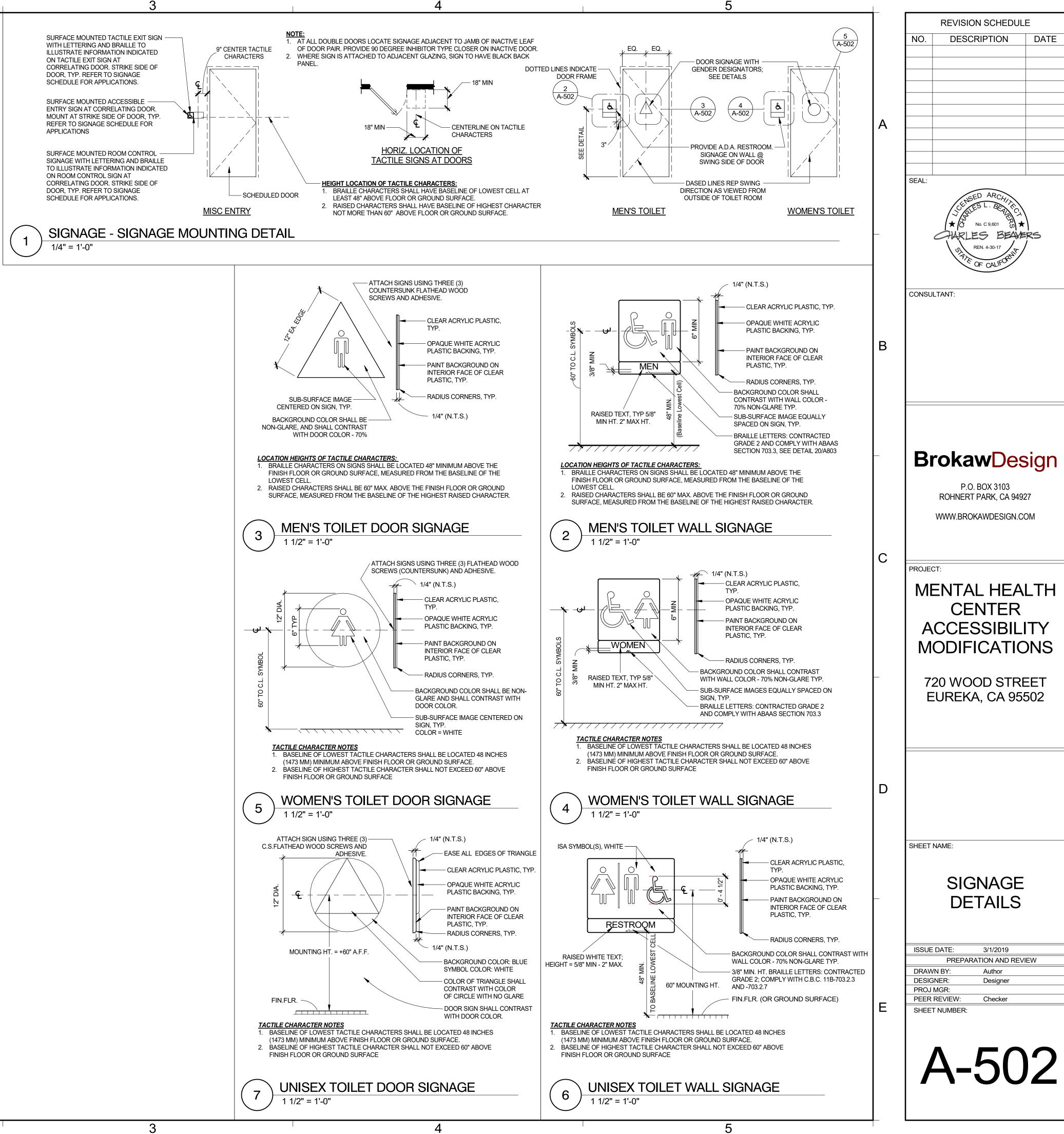
	DOOR SCHEDULE														
									F	RAME			STC		HARDWAR
MARK	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLASS	MAT.	FIN.	HEAD	JAMB	THRESH.	RATING	FIRE RATING	SET
e102	3' - 0"	7' - 0"	0' - 1 3/4"	(E)	(E) SCW	REDO TRANSPARENT	N/A	(E) H.M.	REDO PAINT				(E)	(E)	HS-01W
n211	3' - 0"	7' - 0"	0' - 1 3/4"	A	S.C.WD.	TRANSPARENT	N/A	H.M.	PAINT			NONE	NONE	NONE	HS-02PR
n230	3' - 0"	7' - 0"	0' - 1 3/4"	A	S.C.WD.	TRANSPARENT	N/A	H.M.	PAINT			NONE	MATCH (E)	MATCH (E)	HS-02U
n237	3' - 0"	7' - 0"	0' - 1 3/4"	A	S.C.WD.	TRANSPARENT	N/A	H.M.	PAINT			NONE	MATCH (E)	MATCH (E)	HS-02TR

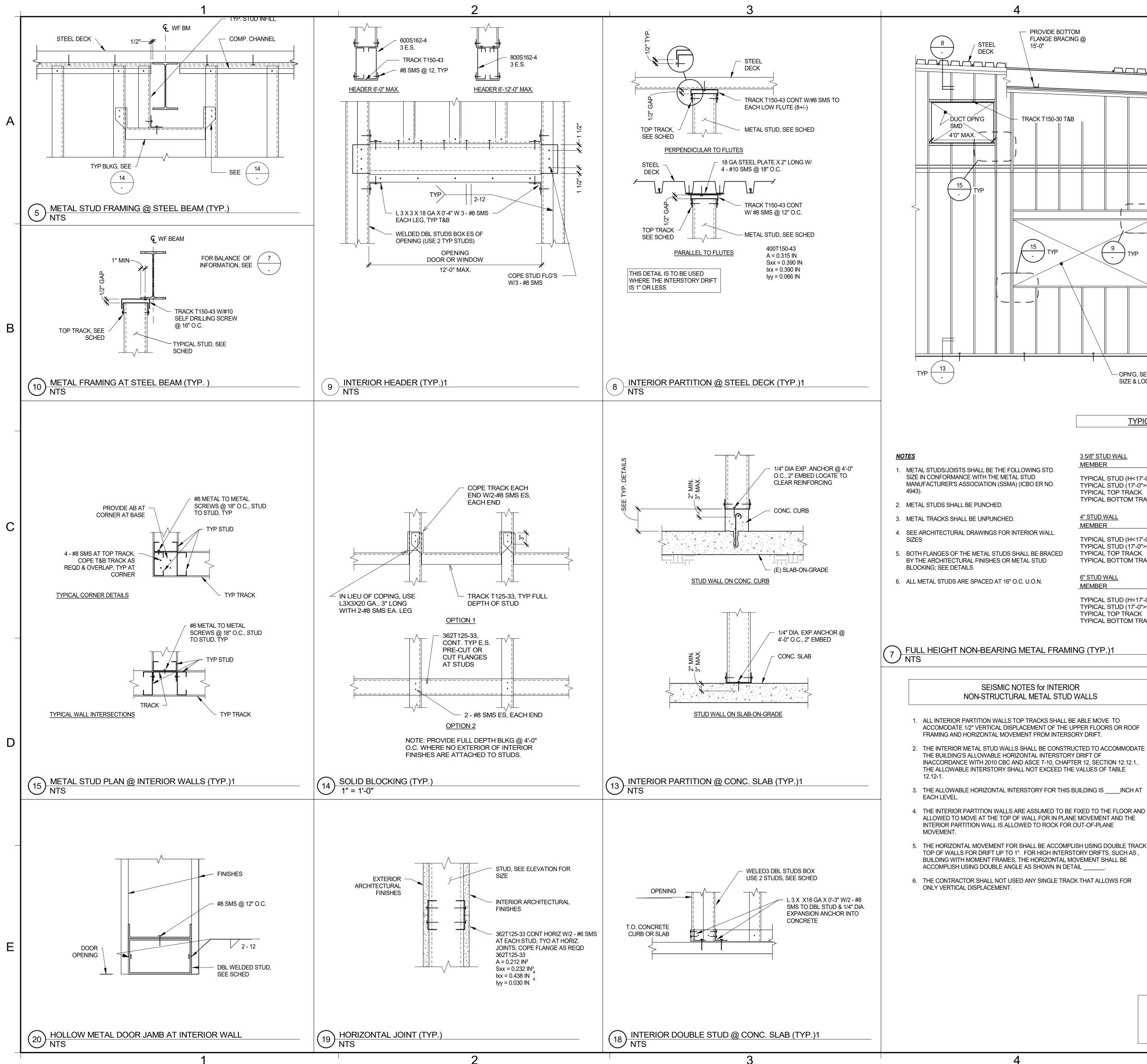
	DOOR HARDWARE SETS											
SET #	HANGING	LOCK FUNCTION	LOCK/LATCH MANUF. & MODEL #	ANCILLARY LOCK	SECURITY	CLOSER	STOP / HOLD-OPEN					
HS-01W	3 EA. 'HAGER' S.S. 4.5" BUTT HINGES	PUSH/PULL	REPLACE (E) PUSH/PULL PLATES		NONE	LCN (INSIDE MOUNT)	WALL BUMPER					
HS-01M		PASSAGE	SCHLAGE ND10S WITH LEVER HANDLE			LCN (INSIDE MOUNT)						
HS-02PR		HOSPITAL PRIVACY	SCHLAGE ND44S WITH LEVER HANDLE									
HS-02U		HOSPITAL PRIVACY	SCHLAGE ND44S WITH LEVER HANDLE			LCN (INSIDE MOUNT)						
HS-02TR	V	PASSAGE	SCHLAGE ND10S WITH LEVER HANDLE		V		V					



FIXTURE	DIMENSION
TOILET CENTER LINE FROM WALL	17" - 18"
TOILET SEAT HEIGHT (TOP OF SEAT)	17" - 19"
GRAB BAR HEIGHT	33" - 36" AFF
TOILET PAPER DISPENSER IN FRONT OF TOILET: 3" MAXIMUM PROTRUSION BEYOND WALL AND NO CLOSER THAN 1-1/2" TO TANGENT POINT ON THE GRAB BAR	7" - 9"
TOILET PAPER DISPENSER HEIGHT (POINT OF DISPENSING)	19"
NAPKIN DISPOSAL IN FRONT OF TOILET	1'-0" MAX.
DISPENSER OR MIRROR HEIGHT (BOTTOM EDGE OF REFLECTED EDGE OR OPERABLE FUNCTION OF DISPENSER)	3'-4" MAX.
LAVATORY/ SINK TOP HEIGHT	2'-10" MAX.
LAVATORY/ SINK KNEE CLEARANCE	2'-3" MIN.
URINAL LIP HEIGHT	1'-5" MAX.
URINAL FLUSH HANDLE HEIGHT URINAL RIM TO PROJECT 14" MIN FROM BACK WALL	3'-8" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT (ACCESSIBLE)	3'-0" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE (ACCESSIBLE)	2'-3" MIN.
	3' - 0"



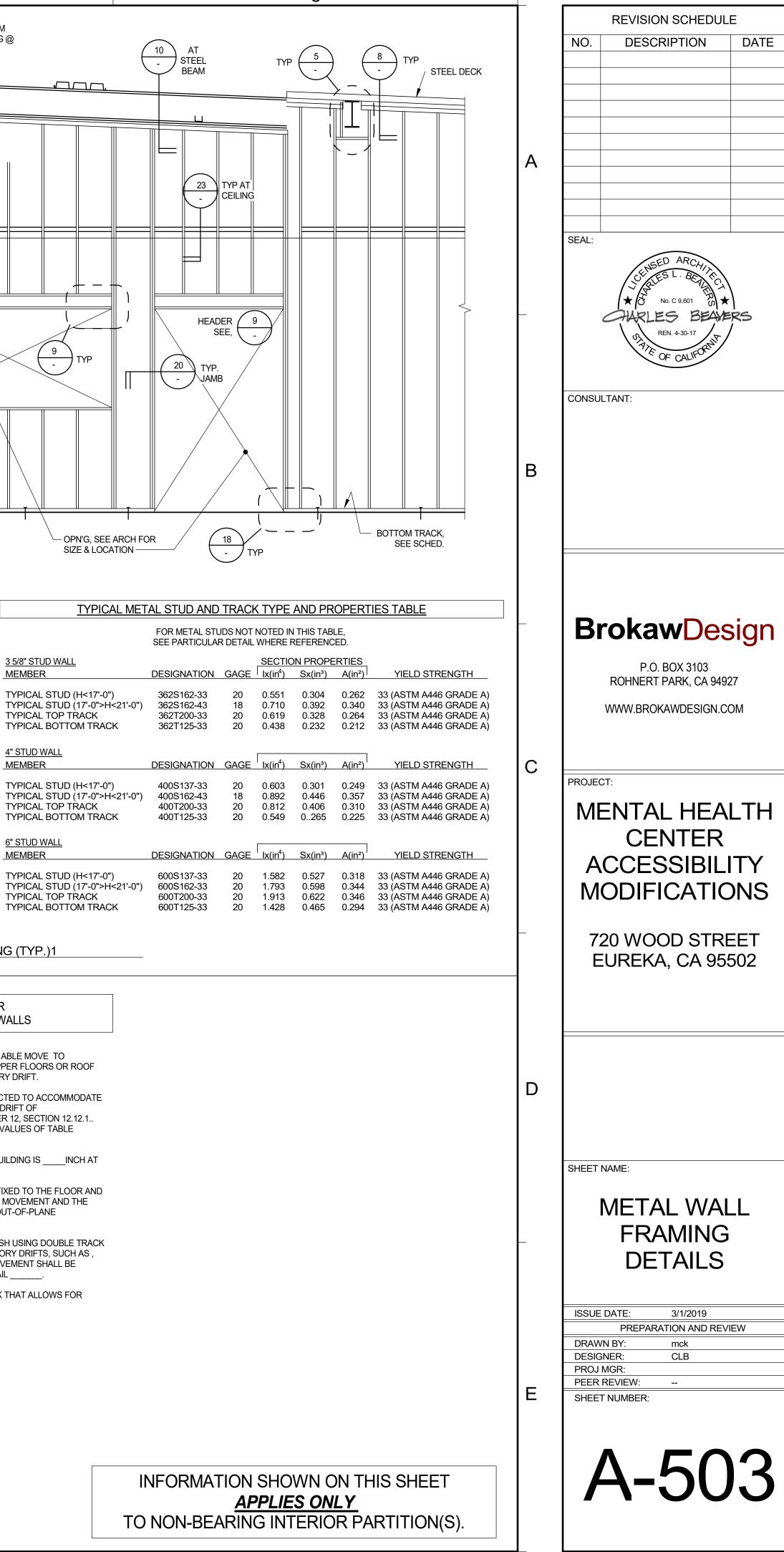


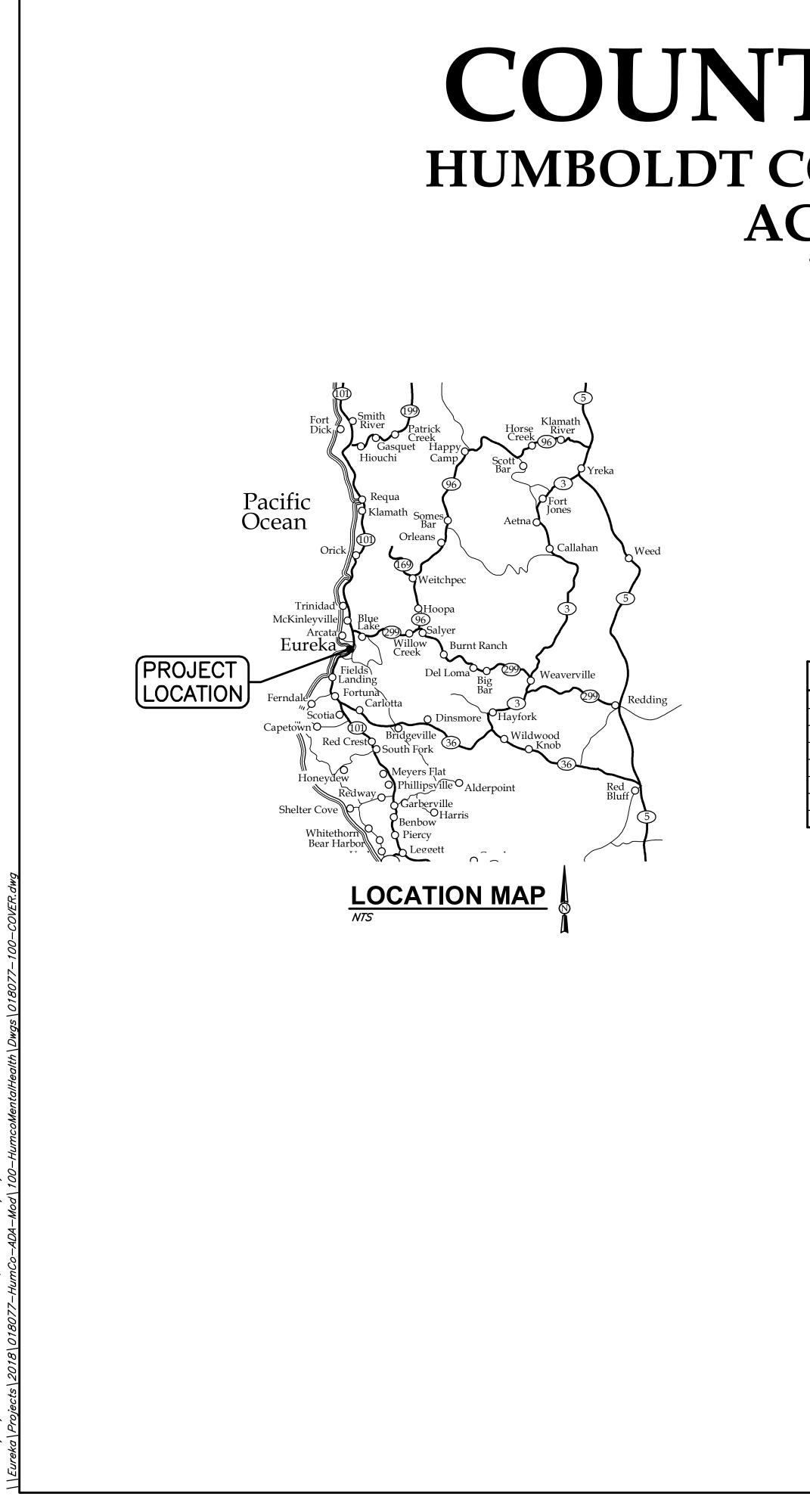


MEMBER

MEMBER

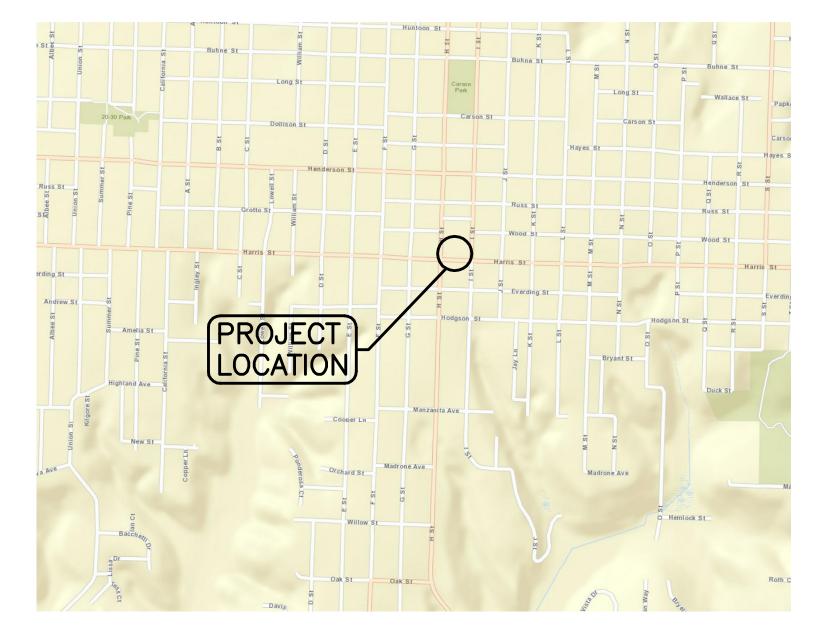
MEMBER





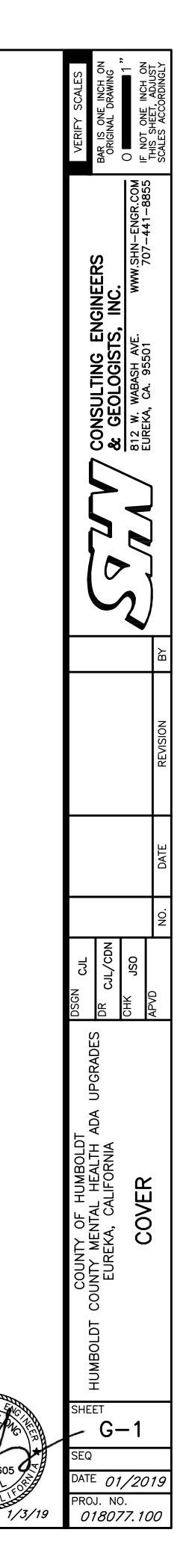
COUNTY OF HUMBOLDT HUMBOLDT COUNTY MENTAL HEALTH BUILDING **ACCESSIBILITY UPGRADES** EUREKA, CALIFORNIA





INDEX OF SHEETS

SEQ	SHEET	TITLE
1	G-1	COVER
2	G-2	STANDARD ABBREVIATIONS AND LEGENDS
3	G-3	PROJECT NOTES & SPECIFICATIONS
4	G-4	EROSION CONTROL NOTES AND DETAILS
5	C-1	DEMOLITION PLAN
6	C-2	SITE LAYOUT PLAN
7	C-3	GRADING AND DRAINAGE PLAN
8	C-4	DETAILS



ABBREVIATIONS

Д ABN	_	ABANDON	G
ABS	—		G GA GALV
AC	—	ASPHALTIC CONCRETE ASBESTOS CEMENT PIPE	GIP GM
	—	AMERICAN CONCRETE INSTITUTE ADJUSTABLE	GPD GPH
AGGR	—	AGGREGATE AMERICAN INSTITUTE OF	GPM GRD
		STEEL CONSTRUCTION ALUMINUM	GSP GV
		ALTERNATE ANGLE POINT	GYP
PPROX	_	APPROXIMATELY	H
ARCH ASTM	_	ARCHITECTURAL AMERICAN SOCIETY FOR	HB HDPE
AUTO	_	TESTING & MATERIALS AUTOMATIC	HDR HDW
AUX Do	_	AUXILIARY AT	HMA HOR
З			HP HR
BC BCR	_	BEGIN CURVE BEGIN CURB RETURN	HT HW_
3D 3F	—	BOARD BLIND FLANGE	HWR HWS
	—	BUTTERFLY VALVE BOOK OR BACK	
ЗМ	—	BUILDING BENCH MARK, BEAM	ID
BMP BO	_	BEST MANAGÉMENT PRACTICE BLOW OFF	IN INFL
BRG	_	BEARING	INSUL INT
3V	_	BALL VALVE	INV IPS
3W	—	BEGINNING OF VERTICAL CURVE BACK OF WALK	J
swv C	_	BACKWATER VALVE	JT JP
5	—	CHANNEL (STRUCTURAL SHAPE)	K
		COMBINATION AIR AND VACUUM RELEASE VALVE	KIP
СВ	—	CABLE TELEVISION CATCH BASIN	KW
CFM	—	CEILING CUBIC FEET PER MINUTE	Ĺ
СНЕМ	—	CUBIC FEET PER SECOND CHEMICAL	∠≯ L
CIP	—	CAST IRON CAST IRON PIPE CAST IN PLACE	LAT LB
CJ	—	CAST IN PLACE CONSTRUCTION JOINT	LF LG
CLR D	_	CLEAR CENTERLINE	LH LONG
CMU	—	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	LP LPG
		COUNTERSINK CLEANOUT COLUMN	LRP LR
CONC	—	CONCRETE	LT LVC
COORD	—	CONTINUOUS OR CONTINUED COORDINATE	М
CRS	—	COUPLING COLD ROLLED STEEL	MATL MAX
CTR CTS	_	COPPER TUBE SIZE	MAX MECH MF
CU FT	—	CUBIC CUBIC FEET	MFR MGD
-w	_	CHECK VALVE COLD WATER CUBIC YARD	MUN
CY N			MIP MISC
ر •	—	DEGREE (ANGLE)	MJ MNPT
)	—	PENNY (NAIL SIŻE) STORM DRAIN	MTL MWS
DBL	—	DISTRIBUTION BOX DOUBLE	Ν
DI	—	DOUGLAS FIR DROP INLET OR DUCTILE IRON	(N)
DIAG	—		N NC
DIMJ		DUCTILE IRON MECHANICAL JOINT	NIC NF
DET	—	DUCTILE IRON PIPE DETAIL	NO NOM
DWG	_	DRAWING	NP NPT
Ε			NTS #
(E)	_	EXISTING EASTING OR EAST	Õ
	—	EASTING OR EAST EACH END CURVE	OC OD
	_	END CURB RETURN EACH FACE	ÖĞ OVFL
<u>-</u> FL	—	EFFLUENT EXISTING GRADE/GROUND	OZ OH
EL	—	ELBOW ELECTRIC OR ELECTRICAL	P
ELEV	—	ELEVATION ENGINEER	PC
EP EQ	_	EDGE OF PAVING EQUAL	PCC PCF PE
EQUIP	—	EQUIPMENT EDGE OF ROAD	PERF
ER		END OF VERTICAL CURVE EACH WAY	PEP PI PI
EVC	_		PL RL
EVC EW EWEF EXC	_	EACH WAY, EACH FACE EXCAVATE	
EVC EW EWEF EXC EXP		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT	PLYW
EVC EW EWEF EXC EXP EXP JT		EXCAVATE EXPOSED OR EXPANSION	PLYW PMP POC
EVC EW EWEF EXC EXP EXP JT EXST		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING	Plyw PMP Poc Pot PP
EVC EW EWEF EXC EXP EXP JT EXST EXT EXT		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE	Plyw PMP Poc Pot PP PRC PREF
EVC EW EWEF EXC EXP EXP EXP EXST EXT EXT F C		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB	POC POT PRC PREF PREL PRES
EVC EW EWEF EXC EXP EXP EXST EXT F F C F C F C A F D		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN	PLYW PMP POC PP PRC PREF PRES PROF PSF
EVC EW EWEF EXC EXP EXP EXP EXST EXT F C F C F C F C F C F C F C F C F D C F D C F D C F D C		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION	PLYW PMP POC PP PRC PREF PRES PROF PSF PSI PSIG
EVC EW EWEF EXC EXP EXP EXST EXT F C F C F C F C F C F C F C F C F C F		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISH FLOOR FINISHED GRADE	PLYW PMP POC POT PRC PREF PRES PROF PSF PSI PSIG PT PUE
EVC EW EWEF EXC EXP EXP EXST EXT EXT EXT FC FC FD FD FD FT FG FH FIG		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISH FLOOR FINISHED GRADE FIRE HYDRANT FIGURE	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PSIG PUE PV PVC
EVC EWEF EXC EXC EXC EXC EXC EXC EXC EXC EXC EXC		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISHED GRADE FIRE HYDRANT FIGURE FINISH FEMALE IRON PIPE	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PSIG PUE PV PVC PVI
EVC EWEF EXC EXC EXC EXC EXC EXC EXC EXC EXC EXC		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISHED GRADE FIRE HYDRANT FIGURE FINISH FEMALE IRON PIPE FLOW LINE FLANGE	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PSIG PUE PV PVC
EVC EWEF EXCP JT EXCENT FOR		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISH FLOOR FINISHED GRADE FIRE HYDRANT FIGURE FINISH FEMALE IRON PIPE FLOW LINE FLANGE FLOOR FILTER	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PSIG PUE PV PVC PVI
EVC WEF EXCP JT EXC A DOD F GHGNPL GRR FILL F C A DOD F GHGNPL GRR FILL FLOOD		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISHED GRADE FIRE HYDRANT FIGURE FINISH FEMALE IRON PIPE FLOW LINE FLANGE FLOOR FILTER FIBER OPTIC FACE OF CONCRETE	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PT PVE PVC PVI PVMT Q
EVC EWEF EXCPJT EXCPJT EXCPJT EXCPJC		EXCAVATE EXPOSED OR EXPANSION EXPANSION JOINT EXISTING EXTERIOR FLANGE FLEXIBLE COUPLING OR FACE OF CURB FLANGED COUPLING ADAPTER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FOUNDATION FINISH FLOOR FINISH FLOOR FINISH FLOOR FINISH FEMALE IRON PIPE FLOW LINE FLANGE FLOOR FILTER FIBER OPTIC	PLYW PMP POC POT PRC PREF PRES PROF PSI PSIG PT PVE PVC PVI PVMT Q

G	_	GAS	R R RC
GA GALV GIP		GAGE GALVANIZED GALVANIZED IRON PIPE	RCP RD
GM GPD GPH	_	CALLONS DED DAY	RDCR RWD REF
GPM GRD GSP		GALLONS PER MINUTE GRADE OR GROUND GALVANIZED STEEL PIPE	REINF REQD
GSP GV GYP		GAEVANIZED STEEL PIPE GATE VALVE GYPSUM	RET RH
Н			RM RO RSP
HB HDPE HDR	_	HOSE BIBB HIGH DENSITY POLYETHYLENE HEADER	RT R/W
HDW HMA	_	HARDWARE HOT MIX ASPHALT	rwl S
HOR HP HR		HORIZONTAL HORSEPOWER, HIGH POINT HOUR	S SL
HT HW HWR		HEIGHT HOT WATER HOT WATER RETURN	SCHED SCSD
HWS	_	HOT WATER SUPPLY	SD SDMH
 ID	_	INSIDE DIAMETER	SECT SF SHT
IN INFL INSUL	_	INCH INFLUENT INSULATE OR INSULATION	SIM SP
INT INV		INTERIOR INVERT	SPEC SQ SQ FT
IPS J	_	IRON PIPE SIZE	SQ IN SS SSCO
JT JP	_	JOINT JOINT POLE	SSMH SST
Κ			STA STD STL
KIP KW	_	THOUSAND POUNDS KILOWATT	STR STRUC
L			SUSP SW SWPPF
∠́} L LAT	_	ANGLE (DEGREES) ANGLE (STRUCTURAL SHAPE) LATERAL	SYMM
LB LF LG		POUND LINEAR FEET LONG	Т
LH LONG	_	LEFT HAND	TAN T&B
LP LPG LRP		LOW POINT LIQUIFIED PETROLEUM GAS LEGALLY RESPONSIBLE PARTY	T&G TBC TBM
LR LT LVC	_	LONG RADIUS LEFT LENGTH OF VERTICAL CURVE	TBW TC TCE
M			TEL TELEM
MATL MAX MECH	_	MATERIAL MAXIMUM MECHANICAL	TEMP TFC THD
MF MFR		MEGA-FLANGE PIPE JOINT MANUFACTURER	TOC TOG TOS
MGD MH MIN		MILLION GALLONS PER DAY MANHOLE MINIMUM OR MINUTE	TOW TP
MIP MISC MJ		MALE IRON PIPE MISCELLANEOUS MECHANICAL JOINT	TRANS
MNPT MTL			TS TYP
мws N	_	MAXIMUM WATER SURFACE	UBC
(N) N	_	NEW NORTHING OR NORTH	UOS UG UTIL
NC NIC NF		NORMALLY CLOSED NOT IN CONTRACT NON-FREEZE	
NO NOM	_	NUMBER OR NORMALLY OPEN NOMINAL	V VAC
NP NPT NTS	_	NEW PAVEMENT NATIONAL PIPE THREAD NOT TO SCALE	VAR VC VCP
#	_	NUMBER	VCP VERT VG
	_	ON CENTER OUTSIDE DIAMETER	VPI W
OG OVFL OZ		ORIGINAL GROUND OVERFLOW OUNCE	w w/
о́н D	_	OVERHEAD	Ŵ∕O WM WP
F PC PCC	_	POINT OF CURVE PORTLAND CEMENT CONCRETE	WS WWF
PCF PE	_	POUNDS PER CUBIC FOOT PLAIN END	Х
PERF PEP PI		PERFORATED POLYETHELENE PIPE POINT OF INTERSECTION	XFMR
pl RL Plcs		PLATE PROPERTY LINE PLACES	I YD 2 YD 2
PLYWD PMP		PERFORATED METAL PIPE	YD 2 YD 3
POC POT PP	_	POINT ON CURVE POINT OF TANGENT POWER POLE	
PRC PREFAI PRELIN		POINT OF REVERSE CURVE PREFABRICATED PRELIMINARY	
PRESS PROP PSF		PRESSURE PROPERTY POUNDS PER SQUARE FOOT	
PSI PSIG			
PT PUE PV	—		
PVC PVI PVMT		POLYVINYL CHLORIDE PLASTIC POINT OF VERTICAL INTERSECTION PAVEMENT	
Q	-		
QTY	—	QUANTITY	

		UTILITIE	<u>S LEGEND</u>	IC	PUGRAP	
1002	PROPOSED	EXISTING		PROPOSED	EXISTING	
LATIVE COMPACTION INFORCED CONCRETE PIPE DAD	M	\otimes	GATE VALVE			P.I. (POINT OF INTERSECTION)
DUCER DWOOD FER OR REFERENCE	K	\otimes^{PV}	PLUG VALVE	NOT USED	\times	TEMPORARY BENCH MARK
INFORCED, REINFORCING		$^{\otimes}{}^{BV}$	BALL VALVE	47.55	NOT USED	FINISH GRADE ELEVATON
QUIRED TURN GHT HAND		⊗ BFV		NOT USED	42.6 ×	ELEVATION OF ORIGINAL GROUND
DOM DUGH OPENING		\otimes - · · ·	BUTTERFLY VALVE	_ _		RADIAL POINT
OCK SLOPE PROTECTION GHT OR RING TIGHT GHT OF WAY IN WATER LEADER		P K	AUTOMATICALLY OPERATED VALVE (P= PNEUMATIC, E= ELECTRIC,			FLOW LINE AND DIRECTION
IN WATER LEADER			Š= SOLENOID, H= HYDRAULIC, D= DIAPHRAGM ACTUATOR)			TOP OF CUT
WER		\bowtie	3-WAY VALVE			
OPE CHEDULE COTIA COMMUNITY			GLOBE VALVE			TOP OF FILL
RVICES DISTRICT ORM DRAIN			ANGLE VALVE			
ORM DRAIN MANHOLE CTION QUARE FOOT/FEET			PRESSURE REGULATING VALVE			TOE OF CUT OR FILL
IEET MILAR PACE OR SPACES	■	₩.	PRESSURE RELIEF VALVE	200	180	CONTOUR LINE
PECIFICATIONS	\sim	۳. Marine (CHECK VALVE			CONCRETE (IN PLAN)
UARE FOOT UARE INCH NITARY SEWER		\uparrow	AIR OR VACUUM RELEASE VALVE			CONCRETE (IN SECTION)
NITARY SEWER CLEAN OUT NITARY SEWER MANHOLE	↑ ^{AV}	\uparrow AV	AIR AND VACUUM VALVE			
AINLESS STEEL ATION ANDARD	ACA		COMBINATION AIR VALVE			PAVEMENT
EEL RUCTURAL		I		NOT USED	5	ROCKS
RUCTURE ISPENDED DEWALK			FLOW METER	NOT USED		STUMPS
ORM WATER POLLUTION REVENTION PLAN MMETRICAL	\rightarrow	→ ^{NF}	HOSE BIBB (NF= NON-FREEZE)	APA	-YE	TOFFS
			REDUCER		ALE A	TREES
NGENT	,	,Q,	FIRE HYDRANT			ROADS
P AND BOTTOM NGUE AND GROOVE P BACK CURB				-	-0-	UTILITY POLE (PP=POWER POLE,
MPORARY BENCH MARK P BACK WALK			DROP INLET		TP ⁻⁰⁻	TP= TEL POLE, JP=JOINT POLE)
P OF CURB MPORARY CONSTRUCTION EASEMEN LEPHONE	NT	0	MANHOLE	((GUY WIRE
LEMETRY MPERATURE OR TEMPORARY	4		SEWER CLEAN OUT OR SEWER LATERAL	× × × ×	× × × × ×	FENCE
P FACE CURB READ P OF CONCRETE	E	E	UNDERGROUND ELECTRICAL	//	<i>_</i>	BOUNDARY LIMITS, W/DESIGNATION
P OF GRATE WN OF SCOTIA	<u></u> E	E	OVERHEAD ELECTRICAL			CENTERLINE
P OF WALL RNING POINT, TOP OF VEMENT OR TELEPHONE	FO	F0	FIBER OPTIC LINE	NOT USED		MARSH
DLE ANSVERSE BE, STRUCTURAL		T \	CABLE TELEVISION JOINT UTILITIES		عنائد عنائد عنائد	WETLAND
PICAL	——ТМ———	T M	UNDERGROUND TELEMETRY LINE	NOT USED		SPRING
IIFORM BUILDING CODE	<u></u> тм		OVERHEAD TELEMETRY LINE			
ILESS OTHERWISE SPECIFIED IDERGROUND ILITY	<u> </u>	Ŧ 0H Ŧ	UNDERGROUND TELEPHONE LINE	TP-4	TP-4	TEST PIT AND DESIGNATION
	FW	FW	OVERHEAD TELEPHONE LINE FIRE WATER LINE	•	\oplus	EXPLORATION BORE HOLE
CUUM	ST	ST	STEAM LINE		÷	
RIES RTICAL CURVE	—— w ——		WATER LINE SIZE AND MATERIAL		\bigcirc	PROPERTY CORNER
RIFIED CLAY PIPE RTICAL LLEY GUTTER			SANITARY SEWER LINE OF EXISTING PIPING MAY BE SHOWN WHEN	\odot	\bigcirc	SURVEY MONUMENT
RTICAL POINT OF INTERSECTION	SD	SD	STORM DRAIN LINE		\bigtriangleup	CONTROL POINT
TER OR WIDE FLANGE	c	G	GAS LINE (SIZE AND MATERIAL OF NEW PIPING MAY			
th Thout Ater Meter			FORCE MAIN AND BE SHOWN ON PLAN	<u> </u>		DRIVEWAY
DRK POINT ATER SURFACE, WATER STOP	₽ 1 191	V T IVI	DIRECTION OF FLOW			
ELDED WIRE FABRIC			CULVERT			
ANSFORMER	•0	0	POLE MOUNTED ROADWAY LUMINAIRE	DETAIL AND	SECTION	
				DESIGN	ATION	_
D JARE YARD	XXXXX	NOT USED	ITEM TO BE REMOVED	SECTION (LETTER) — OR DETAIL (NUMERAL)		
JBIC YARD	-///// -		ITEM TO BE ABANDONED IN PLACE	DESIGNATION	(A)	
			WATER SERVICE $WM - 1 = SINGLE$	INDICATES SECTION OR	C_5	
	<i>3</i>		WM = 1 = SINGLE WM = 2 = DUAL	DETAIL TAKEN AND SHO ON SAME SHEET		
		PB	PULL BOX AND DESIGNATION	ON DRAWING WHERE S OR DETAIL IS TAKEN:	ECTION	
	<i>□ R4−4</i>	h	SIGN AND DESIGNATION	SHEET NUMBER WHER	E SHOWN	
		\vdash				
/E DATA	NOTES	,		ON DRAWING WHERE S OR DETAIL IS SHOWN:		

R (RA L(LENGTH) ム(DELTA) T (TANGENT)

10112 MAY APPEAR ON THIS SHEET WHICH DO NOT APPEAR ON THE PLANS. 3. SITE AND UTILITY SYMBOLS SHOWN ON THIS SHEET ARE NOT INTENDED TO REPRESENT THE PHYSICAL SCALE OR SHAPE OF ANY ITEMS. WHERE LARGE-SCALE PLANS ARE PRESENTED, THE SYMBOLS SHOWN HEREON MAY BE REPLACED BY DETAILS MORE SUITED TO THE DRAWING SCALE.

(DETAIL MAY BE SHOWN ON ANY SHEET WITHIN THE (006)DRAWING SET



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GENERAL NOTES:

- ALL WORK SHALL CONFORM TO CURRENT CALIFORNIA BUILDING CODE. 2. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDED SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 3. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL PROVIDE A COPY OF THE TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.
- 5. CONTRACTOR SHALL PERFORM TRENCH WORK IN CONFORMANCE WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS AND SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND OTHER APPLICABLE AGENCIES.
- 6. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. ALL WORK AND EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REQUIREMENTS. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER. THE ENGINEER AND HIS/HER CONSULTANTS.
- 7. THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY AND TREE CONDITIONS THROUGHOUT THE SITE, AND ASSUME THE RISK OF COMPLETING THE WORK SET OUT ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE OR OTHER CONDITIONS WHICH MAY BE ENCOUNTERED IN THE COURSE OF THE WORK.
- 8. ANY DISCREPANCY DISCOVERED BY THE CONTRACTOR IN THESE PLANS, OR ANY FIELD CONDITIONS DISCOVERED BY THE CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK SHOWN HEREIN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
- 9. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED TESTED AND APPROVED PRIOR TO PAVING.
- 10. THE CONTRACTOR SHALL NOT BEGIN EXCAVATING UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS BEFORE DIGGING AT (800) 227-2600 FOR LOCATES.
- 11. GRADING AND CONSTRUCTION CONTRACTORS SHALL STOP WORK AND NOTIFY THE OWNER
- AND THE ENGINEER IF CULTURAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION. 13. THE CONTRACTOR SHALL GIVE THE INSPECTOR 48 HOURS ADVANCE NOTICE OF ANY
- CONSTRUCTION OR REQUIRED TESTING.
- 14. SHOULD THE CONTRACTOR OR ANY OF HIS AGENTS OR EMPLOYEES ENCOUNTER OR DISCOVER MATERIALS WHICH APPEAR TO BE HAZARDOUS DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY AND SUSPEND WORK IN THE AFFECTED AREA UNTIL THE ENGINEER HAS INSPECTED THE LOCATION AND MATERIALS IN QUESTION. SHOULD IT BE NECESSARY TO UNDERTAKE REMEDIATION, THE ENGINEER WILL GIVE WRITTEN NOTICE TO SUSPEND WORK IN THE AFFECTED AREA UNTIL THE PROPER COURSE OF ACTION HAS BEEN DETERMINED. OPERATIONS IN THE AFFECTED AREA SHALL BE RESUMED ONLY UPON WRITTEN NOTICE BY THE ENGINEER.
- 15. THE TOPSOIL SHALL BE REMOVED FROM CUT AND FILL AREAS AND SHALL NOT BE USED FOR ENGINEERED FILL. TOPSOIL SHALL BE STOCKPILED SEPARATELY AND REPLACED OVER AREAS OF EXPOSED SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES.
- 16. NO CHANGES OR MODIFICATIONS SHALL BE MADE TO THESE PLANS WITHOUT WRITTEN APPROVAL BY THE ENGINEER.
- 17. CONSTRUCTION TO COMPLY WITH ANY TECHNICAL REPORTS COMPLETED FOR THE PROJECT.

SURVEY NOTES:

HORIZONTAL DATUM: ASSUMED 5,000N, 10,000E AT CONTROL POINT #101, WITH A COMPASS BEARING OF N2W FROM CONTROL POINT #101 TO CONTROL POINT #102.

VERTICAL DATUM: ASSUMED ELEVATION OF 100.00' AT CONTROL POINT #101.

UNDERGROUND UTILITY NOTE:

UNDERGROUND UTILITY INFORMATION SHOWN IS BASED ON VISIBLE EVIDENCE. SHN MAKES NO GUARANTEE REGARDING LOCATION, TYPE, SIZE, NOR PRESENCE OR ABSENCE OF UNDERGROUND UTILITIES. IRRIGATION SYSTEM NOT MAPPED.

OVERHEAD UTILITY NOTE:

OVERHEAD LINES OFF OF THE PROJECT SITE ARE NOT FULLY MAPPED. INFORMATION SHOWN IS BASED ON VISIBLE EVIDENCE. NO MAPPING OBTAINED FOR PHONE AND CABLE TELEVISION FACILITIES. PHONE AND CABLE TELEVISION LINE LOCATIONS NOT VERIFIED.

TREE NOTE: ALL TREES SURVEYED WERE DECIDUOUS UNLESS NOTED OTHERWISE. INDIVIDUAL TRUNKS IN TREE CLUSTERS NOT SHOWN.

EROSION CONTROL NOTES:

- BMP'S SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND MAINTAINED SUCH THAT NO VISIBLE SEDIMENT LEAVES THE SITE.
- 2. TRACKING CONTROLS: ENTRANCE/EXIT BMP. 3. PAVED AND CONCRETE AREAS AT THE ACCESS POINTS SHALL BE SWEPT OR VACUUMED AS OFTEN AS EACH DAY TO ELIMINATE TRACKING SOIL AND DEBRIS BEYOND THE LIMITS OF THE PROJECT SITE. ANY SOILS AND/OR DEBRIS, ROCK. GRAVEL, ETC. TRACKED BEYOND THE LIMITS OF THE PROJECT SITE AS A RESULT OF THIS PROJECT SHALL BE REMOVED IMMEDIATELY.
- DISTURBED AREAS PROTECTED TO EXTENT PRACTICAL DURING CONSTRUCTION. STOCKPILE MANAGEMENT TO BE IMPLEMENTED. DISTURBED AREA STABILIZED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION DEBRIS TO ENTER THE STORM DRAIN OR SANITARY SEWER SYSTEMS. THE CONTRACTOR SHALL INSTALL APPROVED PHYSICAL BARRIERS TO ENSURE THAT ALL DEBRIS IS CAPTURED AND REMOVED FROM SURFACE RUNOFF PRIOR TO RELEASING SITE RUNOFF.

PROJECT SPECIFICATIONS:

GENERAL COMPACTION

- 1. COMPACTION REQUIREMENTS AS SPECIFIED WILL BE BY PERCENT OF THE MAXIMUM DRY DENSITY AND AS DETERMINED PER ASTM D 1557.
- 2. PLACE BACKFILL AND FILL SOIL MATERIAL IN LOOSE LIFTS OF NOT MORE THAN 8 INCHES FOR MATERIAL COMPACTED BY HEAVY EQUIPMENT, AND NOT MORE THAN 6 INCHES FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- 3. THE GROUND SURFACE IN AREAS TO RECEIVE FILL SHALL BE PREPARED AS FOLLOWS: 3.1. ALL ORGANIC MATERIAL AND TOPSOIL SHALL BE REMOVED. 3.2. ON SLOPES GREATER THAN 1V:4H, HORIZONTAL BENCHES SHALL BE CUT INTO THE SOIL TO PROVIDE A LEVEL BEARING SURFACE FOR THE FILL MATERIAL. THE MINIMUM
- WIDTH OF THE BENCHES SHALL BE FOUR FEET. 4. ALL IMPROVEMENTS SHALL BE GRADED TO DRAIN TO THE APPROVED DRAINAGE COURSE AT A UNIFORM SLOPE OF 2% MINIMUM UNLESS OTHERWISE NOTED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SHN CONSULTING ENGINEERS AT 707-441-8855 IMMEDIATELY, AND PROVIDE WRITTEN DESCRIPTION OF ANY DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THESE PLANS WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT EARTHWORK QUANTITY.
- 6. NO CUT OR FILL SLOPES SHALL EXCEED THE SLOPE RATIO OF 2H:1V, UNLESS OTHERWISE NOTFD.
- 7. TOPSOIL SHALL BE REMOVED FROM ALL CUT AND FILL AREAS AND SHALL NOT BE USED FOR ENGINEERED FILL.
- 8. FILL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE SOILS REPORT UNLESS OTHERWISE NOTED ON THESE PLANS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR COMPLYING WITH THE FILL MATERIAL REQUIREMENTS OF THE SOILS REPORT.
- 9. COMPACTION IN TRENCHES SHALL BE TESTED EVERY 50-75 FEET WITH A MINIMUM OF TWO TESTS PER ANY LENGTH OF TRENCHING. THE ENGINEER WILL BE PERMITTED TO COMPLETE TESTING AT ANY BACKFILL ELEVATION DURING THE BACKFILLING PROCESS. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND AN OPERATOR. FREE OF CHARGE TO FACILITATE THE TESTING REQUIRED BY THE ENGINEER.
- 10. FILL MATERIALS SHALL BE MECHANICALLY COMPACTED. JETTING WILL NOT BE ALLOWED. 11. CARE SHALL BE TAKEN NOT TO CRUSH THE PIPE OR OTHER COMPONENTS WITH COMPACTION EQUIPMENT.
- 12. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE FOOTING EXCAVATIONS PRIOR TO PLACEMENT OF FORMS AND REBAR.

PROJECT SPECIFICATIONS (CONT):

SITE WORK CONCRETE

- FOR APPROVAL PRIOR TO CONCRETE PLACEMENT.
- THE FOLLOWING DESIGN CRITERIA: A. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4,000 PSI B. MINIMUM CEMENT CONTENT = 5 SACKS/CUYD C. MAXIMUM AGGREGATE SIZE = 3/4"
- D. SLUMP = $4"\pm 1"$
- INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE.
- 5. SURFACE OF ALL CONCRETE FLATWORK SHALL BE IN ACCORDANCE WITH CBC REQUIREMENTS FOR ACCESSIBLE ROUTES.
 - CONCRETE.
 - IN ANY DIRECTION.
- 8. ALL CONCRETE FORM WORK SHALL BE REMOVED AFTER CONCRETE HAS SET.

PAVING

- SPECIFICATIONS SECTION 39.
- BINDER SHALL BE PG64-16.

- TACK COAT SHALL BE TYPE SS-1. INACCESSIBLE TO MECHANICAL ROLLING EQUIPMENT.
- ROLLER MARKS.
- COMPACTION PER ASTM D1557/D6938.
- SURFACE DRAINAGE PATTERNS.

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CBC AND WITH THE PROVISIONS OF ACI 318. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER 2. UNLESS OTHERWISE STATED, CONCRETE SHALL BE HARDROCK CONCRETE AND SHALL MEET

3. CONCRETE SHALL BE MIXED, PLACED, AND CURED IN ACCORDANCE WITH ACI 318. 4. REINFORCING SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL

6. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLEEVES SHALL BE SECURELY POSITIONED IN FORMS BEFORE PLACEMENT OF

7. WALKWAYS SHALL MEET THE ACCESSIBILITY REQUIREMENTS PROVIDED IN THE CALIFORNIA BUILDING CODE. LONGITUDINAL SLOPES OF WALKWAYS SHALL NOT EXCEED 5%. CROSS SLOPES OF WALKWAYS SHALL NOT EXCEED 2%. LANDINGS SHALL NOT EXCEED 2% SLOPE

1. ALL ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD

2. ASPHALT MATERIAL SHALL BE HMA TYPE A WITH 1/2 INCH AGGREGATE GRADATION. ASPHALT

3. ASPHALT CONCRETE SHALL BE INSTALLED AND TESTED ACCORDING TO THE "STANDARD PROCESS" SPECIFIED IN SECTION 39. ACCEPTANCE CRITERIA PER CALTRANS TEST 309. 4. WHERE NEW PAVING MEETS EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAWCUT. APPLY TACK COAT TO CONTACT SURFACES OF CURBS, GUTTERS AND EXISTING PAVEMENT. PLACE ASPHALT CONCRETE WITHIN 24 HOURS OF APPLYING PRIMER OR TACK COAT.

8. COMPACT PAVEMENT BY ROLLING TO A MINIMUM OF 95% OF MAXIMUM DENSITY. DO NOT DISPLACE OR EXTRUDE PAVEMENT FROM POSITION. HAND COMPACT IN AREAS

9. PERFORM ROLLING WITH CONSECUTIVE PASSES TO ACHIEVE SMOOTH FINISH WITHOUT

10. AGGREGATE BASE SHALL BE CALTRANS CLASS 2, COMPACTED TO 95% RELATIVE

11. IN AREAS TO BE PAVED, MINIMUM TOP 6 INCHES OF SUITABLE NATIVE SOIL SHALL BE SCARIFIED AND RECOMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557/D6938. 12. UNLESS OTHERWISE SHOWN ON THESE PLANS, NEW ASPHALT CONCRETE SURFACES AND NEW FINISH GRADE SURFACES SHALL BE INSTALLED SO AS TO MAINTAIN EXISTING

ADJL ⊖ ⊾≓ն Σŋ Ξ ENGINE S. INC CONSULTING & GEOLOGIST 812 W. WABASH AV EUREKA, CA. 9656.01 A S **NOTES** FICATION OJE(SPE Ř HEET G-3DATE 01/2019



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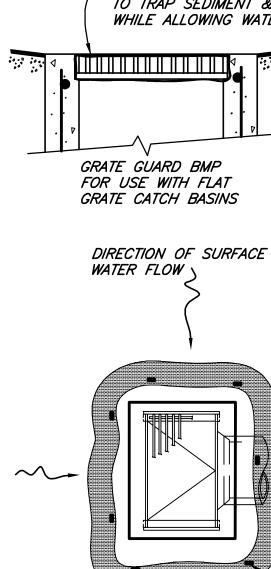
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EROSION CONTROL PLAN NOTES:

- 2. THE IMPLEMENTATION OF THE EROSION CONTROL PLAN (ECP) AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE BMP'S IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
- 3. THE BMP'S SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- 4. CONTRACTOR TO SCHEDULE AN IN-FIELD PRE-CONSTRUCTION MEETING WITH THE DESIGN ENGINEER BEFORE COMMENCING WORK TO DISCUSS THE INTENT OF THE EROSION CONTROL PLAN.
- 5. USE NATIVE GRASS SEED TO RESEED DISTURBED AREAS AND MATCH EXISTING VEGETATION TO THE EXTENT POSSIBLE. SEEDED AREAS SHALL BE COVERED WITH STRAW, RICE, OR COIR MULCH AND KEPT MOIST UNTIL GRASSES ESTABLISH.
- 6. STREET CLEANING MUST BE DONE BY VACUUM SWEEPER, STREET WASHING IS NOT ALLOWED. CONTRACTOR TO PERFORM STREET CLEANING ON PAVED STREETS AFTER CONSTRUCTION IS COMPLETE AND AS DEEMED NECESSARY DURING CONSTRUCTION.
- 7. INLET PROTECTION TO BE INSTALLED PRIOR TO DEMOLITION AND TO REMAIN IN PLACE UNTIL SURFACING IS COMPLETED, STOCKPILES ARE REMOVED, AND VEGETATION IS RE-ESTABLISHED.
- 8. SEDIMENT BARRIER TO BE INSTALLED PRIOR TO DEMOLITION AND TO REMAIN IN PLACE UNTIL SURFACING IS COMPLETED, STOCKPILES ARE REMOVED, AND VEGETATION IS RE-ESTABLISHED.

MAINTENANCE AND INSPECTION:

- 9. MAINTENANCE AND INSPECTION OF BMP'S, AT A MINIMUM, SHALL BE CONDUCTED ACCORDING TO THE FOLLOWING SCHEDULE: • BMP'S SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
 - BMP'S AT INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH, PRIOR TO A FORECAST STORM, AND WITHIN 24 HOURS FOLLOWING A STORM EVENT.



USE WITH INLETS ON NATURAL GROUND



1. CONSTRUCTION OF ALL EROSION CONTROL MEASURES AND BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

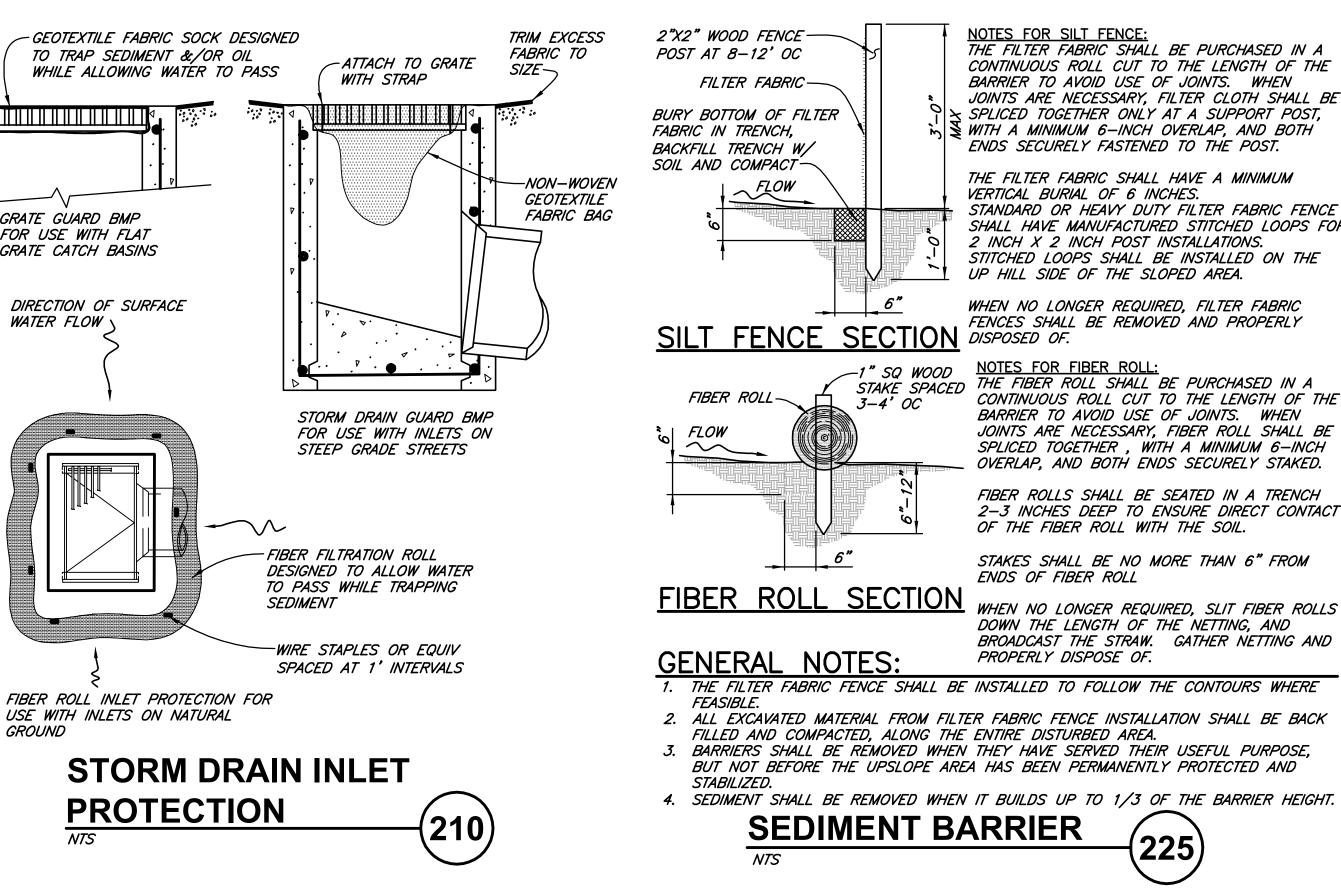
EROSION CONTROL PLAN NOTES (CONTINUED):

STOCKPILES:

- 10. EXCAVATED SOILS MAY BE PLACED ADJACENT TO THE TOP OF THE TRENCH IF THE STOCKPILED SOIL THICKNESSES ARE 2 FEET OR LESS. IF SOILS ARE PLACED IN MOUNDED STOCKPILES, THEN EXCAVATED SOILS SHOULD BE PLACED NO CLOSER THAN 10 FEET FROM THE TOP OF THE TRENCH EXCAVATION.
- 11. SOIL STOCKPILES SHALL BE COVERED, STABILIZED, OR PROTECTED WITH SOIL STABILIZATION MEASURES AND A PERIMETER SEDIMENT BARRIER AT ALL TIMES DURING THE RAINY SEASON, AND PRIOR TO THE ONSET OF RAIN DURING THE NON-RAINY SEASON.
- 12. STOCKPILES OF CONTAMINATED SOIL SHALL BE MANAGED IN ACCORDANCE WITH CALTRANS BMP FOR "CONTAMINATED SOIL MANAGEMENT"

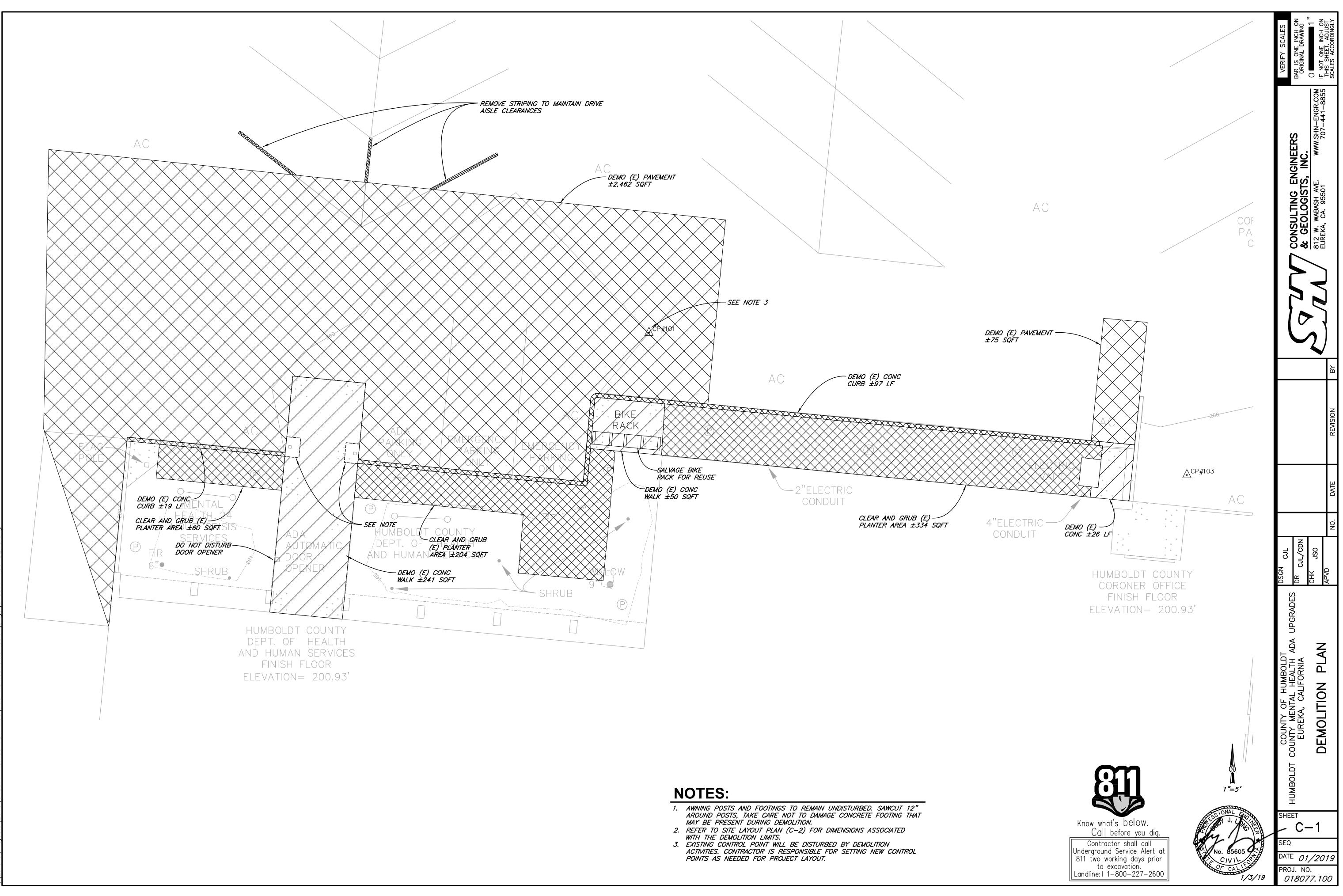
DEWATERING:

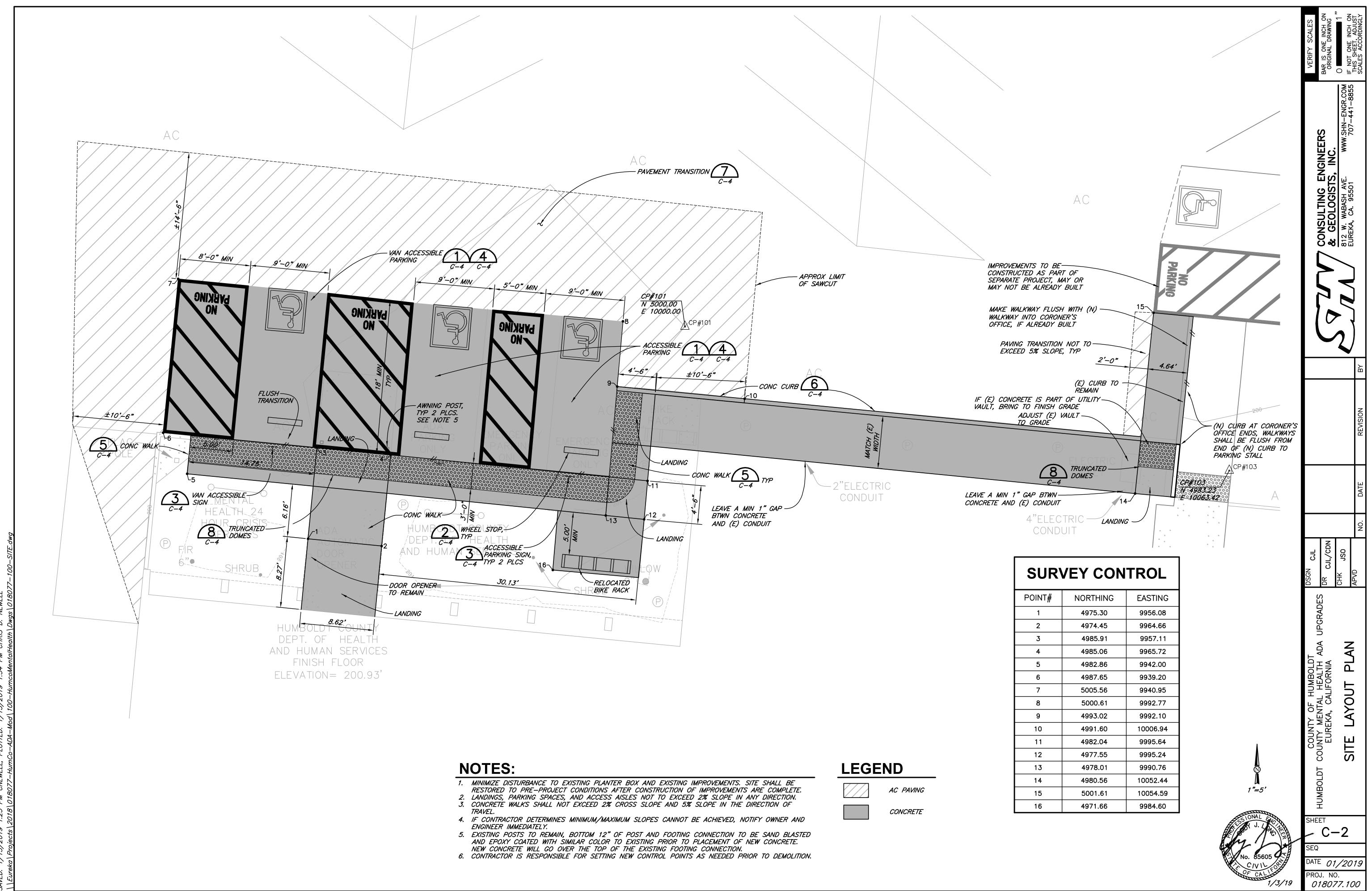
- 13. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER DESIGN INSTALLATION, OPERATION, AND DESTRUCTION OF DEWATERING FACILITIES NEEDED DURING CONSTRUCTION.
- 14. CONTRACTOR SHALL ESTABLISH AND MAINTAIN DEWATERING FACILITIES TO ALLOW FOR THE EXCAVATION, AND SUBSEQUENT PLACEMENT AND RECOMPACTION OF TRENCH MATERIAL WITHIN THE EXCAVATED AREA.
- 15. HANDLING OF WATER FROM THE EXCAVATION AND DISPOSAL OF SAME FROM THE PROJECT SITE SHALL BE PERFORMED IN ACCORDANCE WITH BMP'S TO AVOID SEDIMENT TRANSPORT AND OTHER IMPACTS TO RECEIVING WATERS AS OUTLINED IN THE APPROVED SWPPP FOR THIS PROJECT.
- 16. SEDIMENT BASINS SHALL BE LOCATED A MINIMUM OF 100 FEET FROM A WATERCOURSE.
- 17. WATER FROM THE SEDIMENT BASINS SHOULD NOT BE DISCHARGED AS CONCENTRATED FLOW DIRECTLY INTO SLOUGHS, CUTOFF SLOUGHS, STREAMS, OR ANY DITCH THAT DISCHARGES TO ONE OF THESE FEATURES.

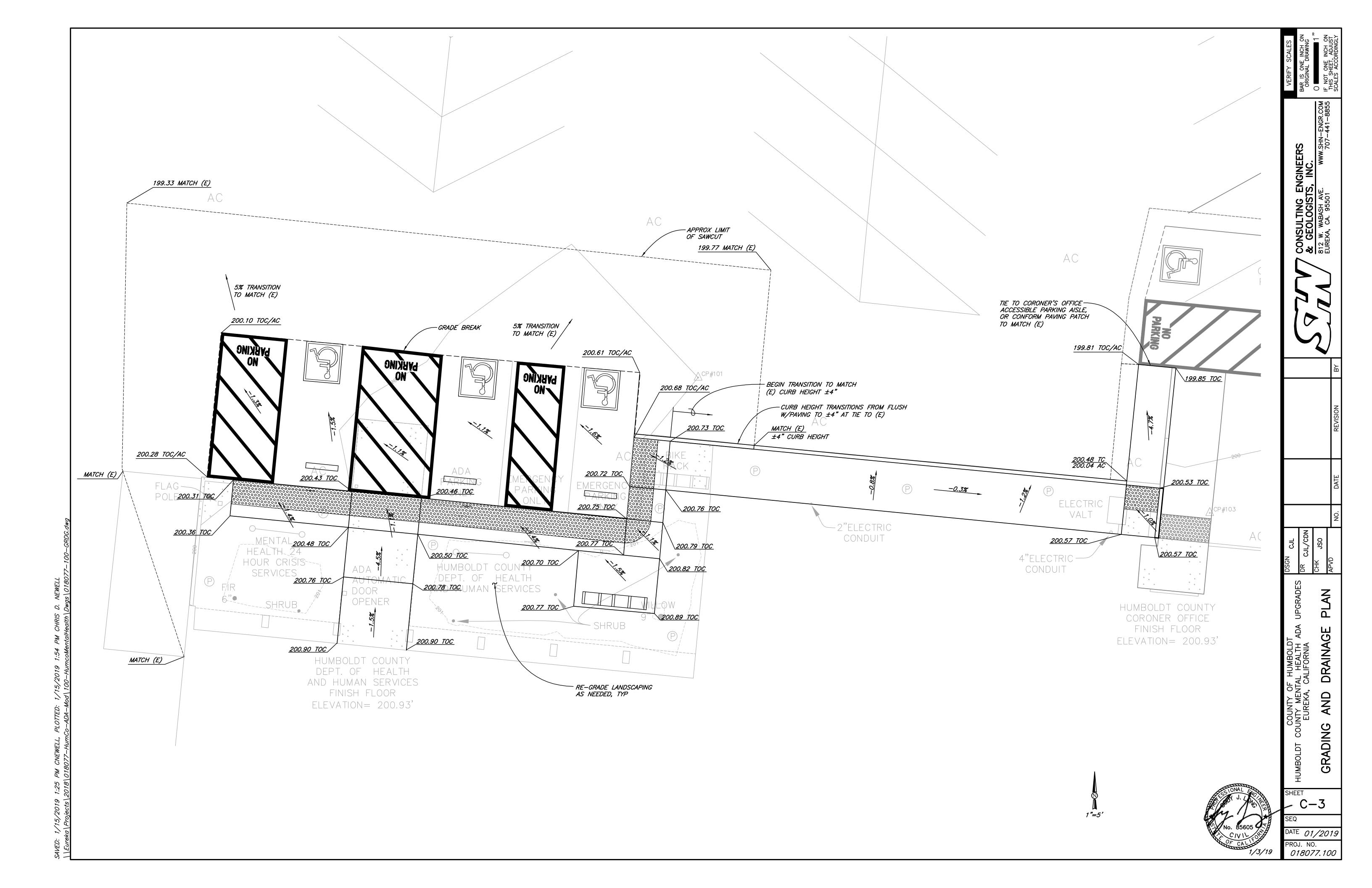


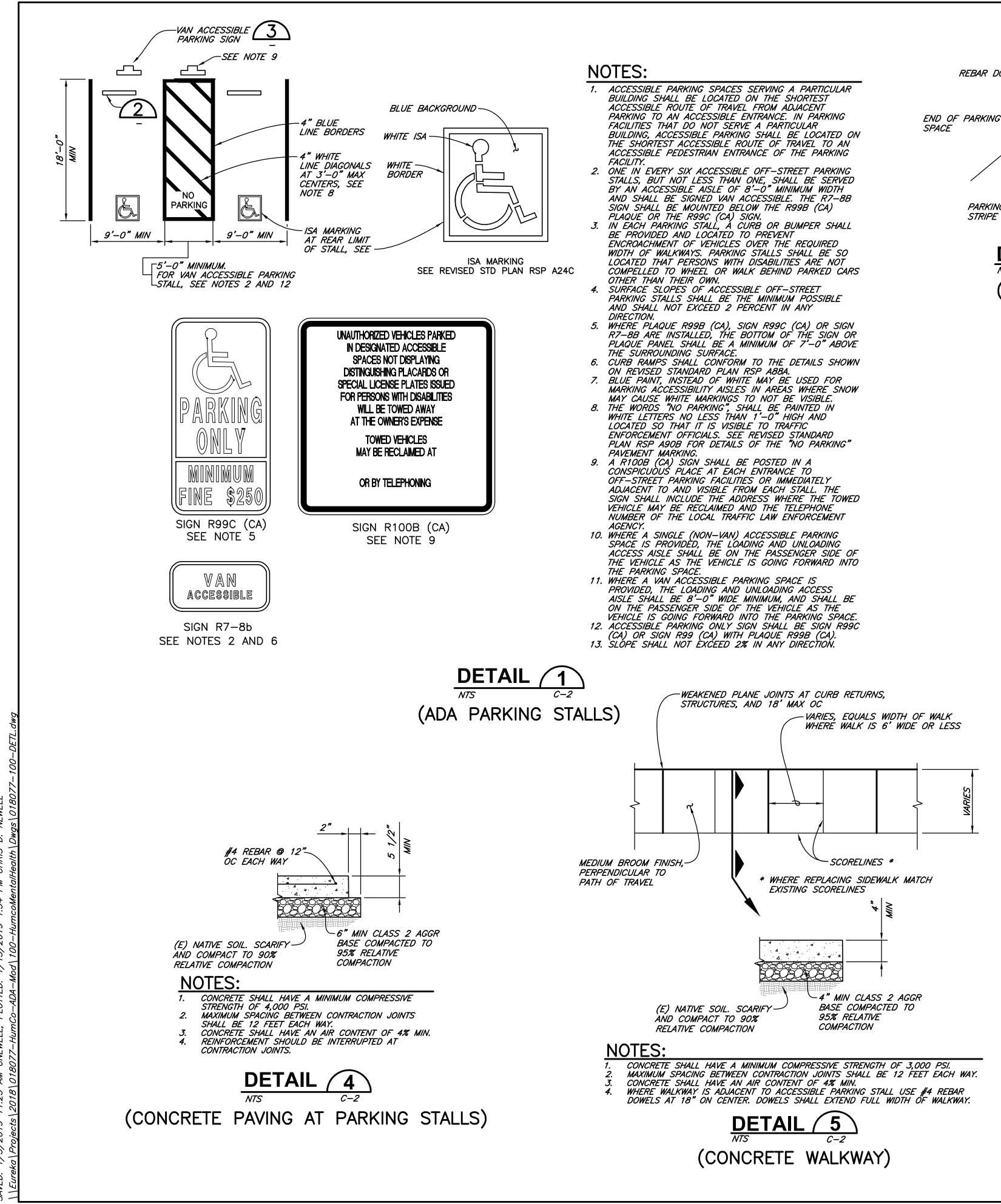
·	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
	CONSULTING ENGINEERS & GEOLOGISTS, INC. B12 W. WABASH AVE. EUREKA, CA. 95501 707-441-8855
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STONAL STONAL STOCK	SHEET
No. 85605 C/V IL OF CALIFOR 1/3/19	SEQ DATE <i>01/2019</i> PROJ. NO. <i>018077.100</i>





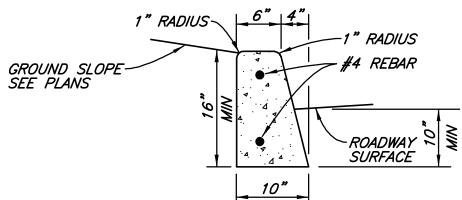


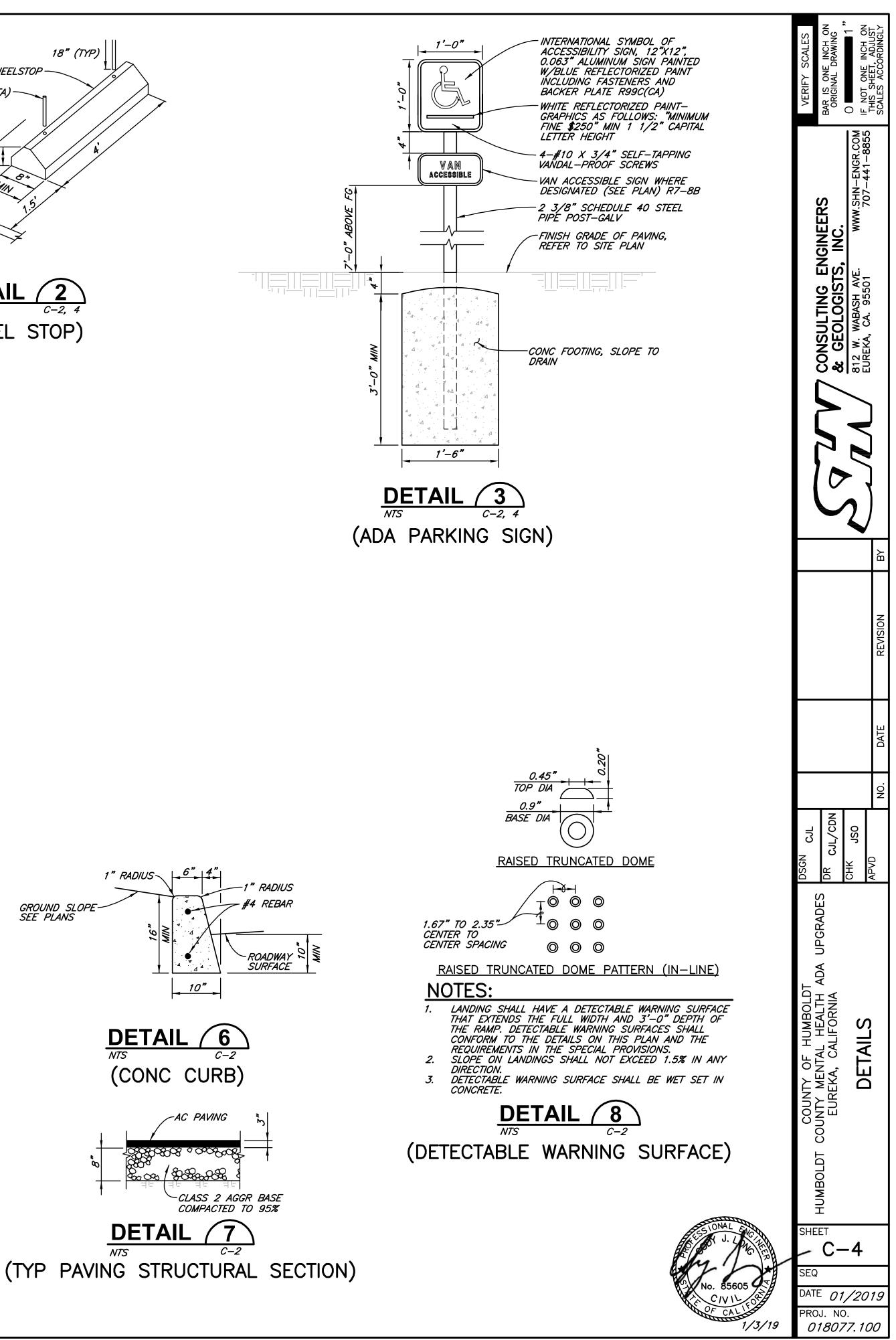




18" (TYP) WHEELSTOP -REBAR DOWEL (2 EA)-MIN PARKING STRIPE DETAIL

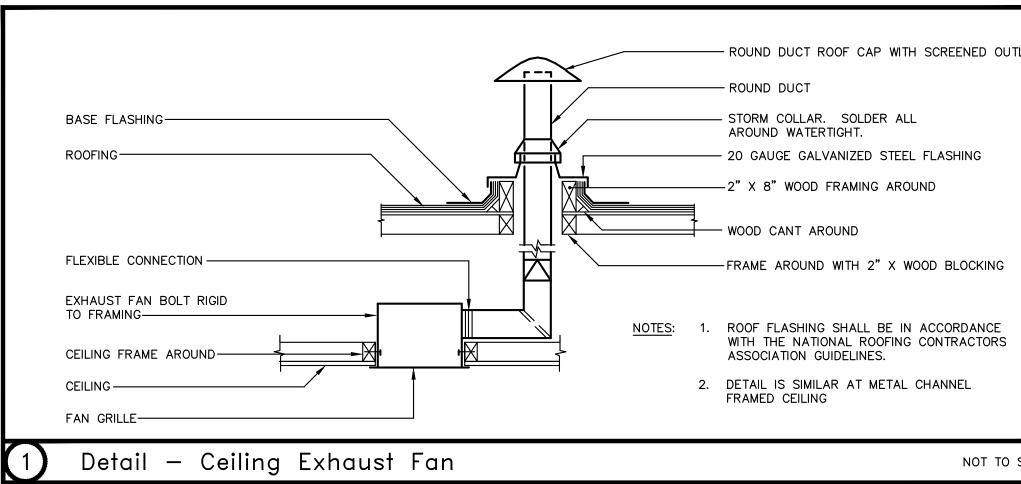






Plumbing Fixture Piping Schedule								
FIXTURE TYPE	MINIMUM BRANCH PIPE SIZE *			CONNECTION SIZE (VERIFY)		WATER	DEMARKS	
	WASTE	VENT	COLD WATER	HOT WATER	COLD WATER	HOT WATER	USAGE	REMARKS
WATER CLOSET (TANK)	4"	2"	1 1/4"		1"		1.28 GPF	
LAVATORY	2"	1 1/2"	3/4"	3/4"	1/2"	1/2"	0.5 GPM	1 1/2" TRAP & TRAP ARM. INSTALL CLEANOUT IN TRAP.
SHOWER	2"	1 1/2"	3/4"	3/4"	1/2"	1/2"	1.5 GPM	PRESSURE BALANCED SHOWER VALVE
* TO WITHIN 5 F ** TRAP PRIMER	EET OF FIXTUR	E OR CLOSE	R					

Fan Schedule																					
FAN	MFGR.	MODEL	CFM	S.P.	RPM	WHEEL SIZE WATTS		WHEEL	WHEEL	NHEEL	NA WHEEL	WHEEL	WHEEL	MAX.	MAX. SONES		MOTOR			WEIGHT (LBS.)	DEMARKS
NO.	Mr GR.	NO.	CIM	S.P. ("WC)		SIZE	WATTS	SONES	H.P.	VOLTAGE	PHASE	WATTS	(LBS.)	REMARKS							
E-1	соок	GC-148	-120	0.375	1075	-	43.7	2.5	-	115	1	48	25								



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- ROUND DUCT ROOF CAP WITH SCREENED OUTLET

- STORM COLLAR. SOLDER ALL AROUND WATERTIGHT.

— 20 GAUGE GALVANIZED STEEL FLASHING

- FRAME AROUND WITH 2" X WOOD BLOCKING

NOT TO SCALE

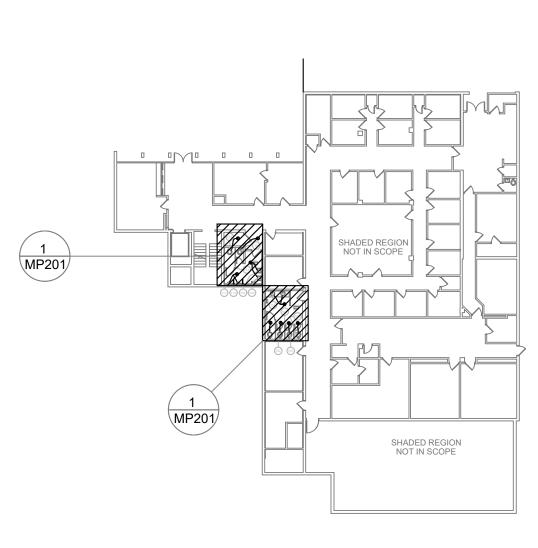
δ 12"ø θ →	₹ ROUND DUCT, INSIDE DIAMETER INDICATED		- w.	SOIL OR WASTE PIPING ABOVE FLOOR
18x12	₹ RECTANGULAR DUCT, INSIDE WIDTH AND INSIDE DEPTH		– w.	SOIL OR WASTE PIPING BELOW GRADE/FLOOR
	SUPPLY DUCT, SECTION		- RWL	RAINWATER LEADER PIPING
	RETURN DUCT, SECTION		- v.	VENT PIPING
	EXHAUST DUCT, SECTION		- cw	COLD WATER PIPING
	FIRE DAMPER IN DUCT		– нw	HOT WATER PIPING
			- HWR	HOT WATER RETURN PIPING
	SINGLE BLADE VOLUME DAMPER	— G —	- G.	GAS PIPING
	₹ TURNING VANE	CD	- CD	CONDENSATE DRAIN PIPING
	₹ TAKE-OFF WITH ADJUSTABLE TURNING VANE	— F —	- F.	FIRE PIPING
	TAKE-OFF WITH ADJUSTABLE TORNING VANE	@	F D, RD	FLOOR DRAIN, ROOF DRAIN
			COTG, FCO	CLEANOUT TO GRADE, FLOOR CLEANOUT
	ROUND CONICAL TEE WITH TAKE-OFF AT 45" TO DIRECTION OF MAIN DUCT		wco	WALL CLEANOUT
	ACCESS PANEL IN DUCT		со	CLEANOUT
			VTR	VENT THROUGH ROOF
↓ <u>+</u> + E = = = =	NTERNAL ACOUSTIC INSULATION INSIDE DUCT, SIZES SHOWN ARE NET INSIDE		WC	WATER CLOSET
500 18x18x1	CEILING DIFFUSER, CFM ON TOP, NECK SIZE AND NUMBER OF DIRECTIONS OF BLOW ON BOTTOM		UR	URINAL
	CEILING RETURN REGISTER, CFM ON TOP,		LAV	LAVATORY
12x12	NECK SIZE ON BOTTOM CEILING EXHAUST REGISTER, CFM ON TOP,		SSK	SERVICE SINK
	NECK SIZE ON BOTTOM		SK	SINK
-200 12×12	SIDEWALL EXHAUST, RETURN, OR RELIEF REGISTER, CFM ON TOP, NECK SIZE ON BOTTOM		SH	SHOWER
500	SIDEWALL DIFFUSER, CFM ON TOP, NECK SIZE AND		DF	DRINKING FOUNTAIN
[] 18x12x1	NUMBER OF DIRECTIONS OF BLOW ON BOTTOM		HB	HOSE BIBB
	THERMOSTAT MOUNT ON WALL		1	DESIGNATION OF SHEET NOTE #1
TYP.	TYPICAL		(E)	EXISTING
(E)	EXISTING		(N)	NEW
(N)	NEW		TYP.	TYPICAL
NTS	NOT TO SCALE	-Ψ-	-	GAS COCK
DN	DOWN		- G.V.	GATE VALVE
AFF	ABOVE THE FINISHED FLOOR		- B.V.	BALL VALVE
(1)	DESIGNATION OF SHEET NOTE #1		- CH. V.	CHECK VALVE
		— \ ,	-	STRAINER
Mechanica	legend	Plum	bing Lege	nd
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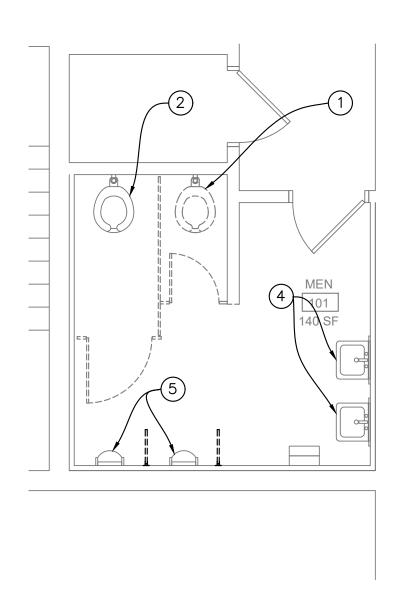
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DEMO KEY PLAN



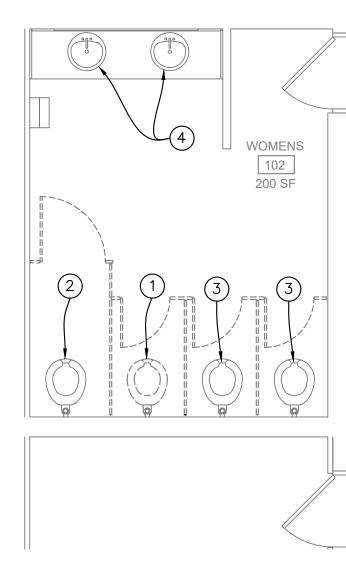
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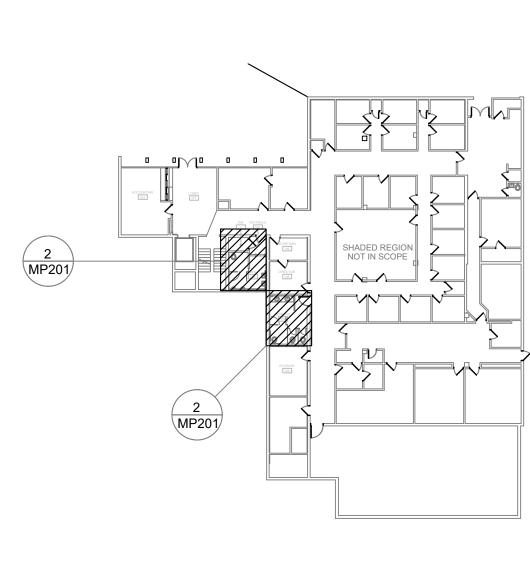


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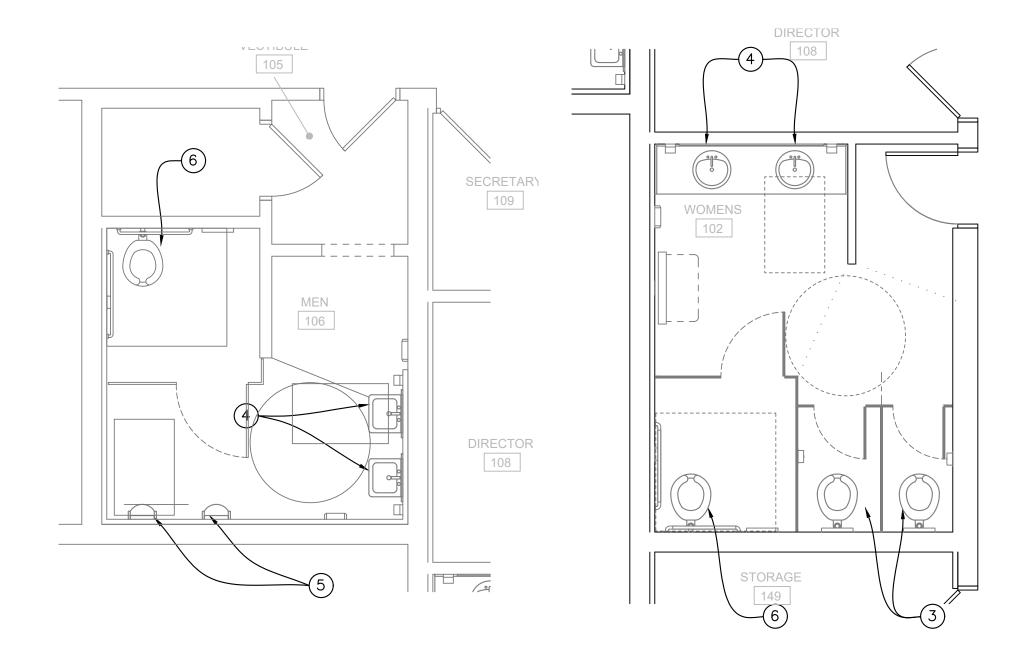


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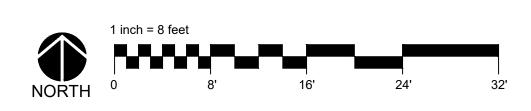


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NEW KEY PLAN







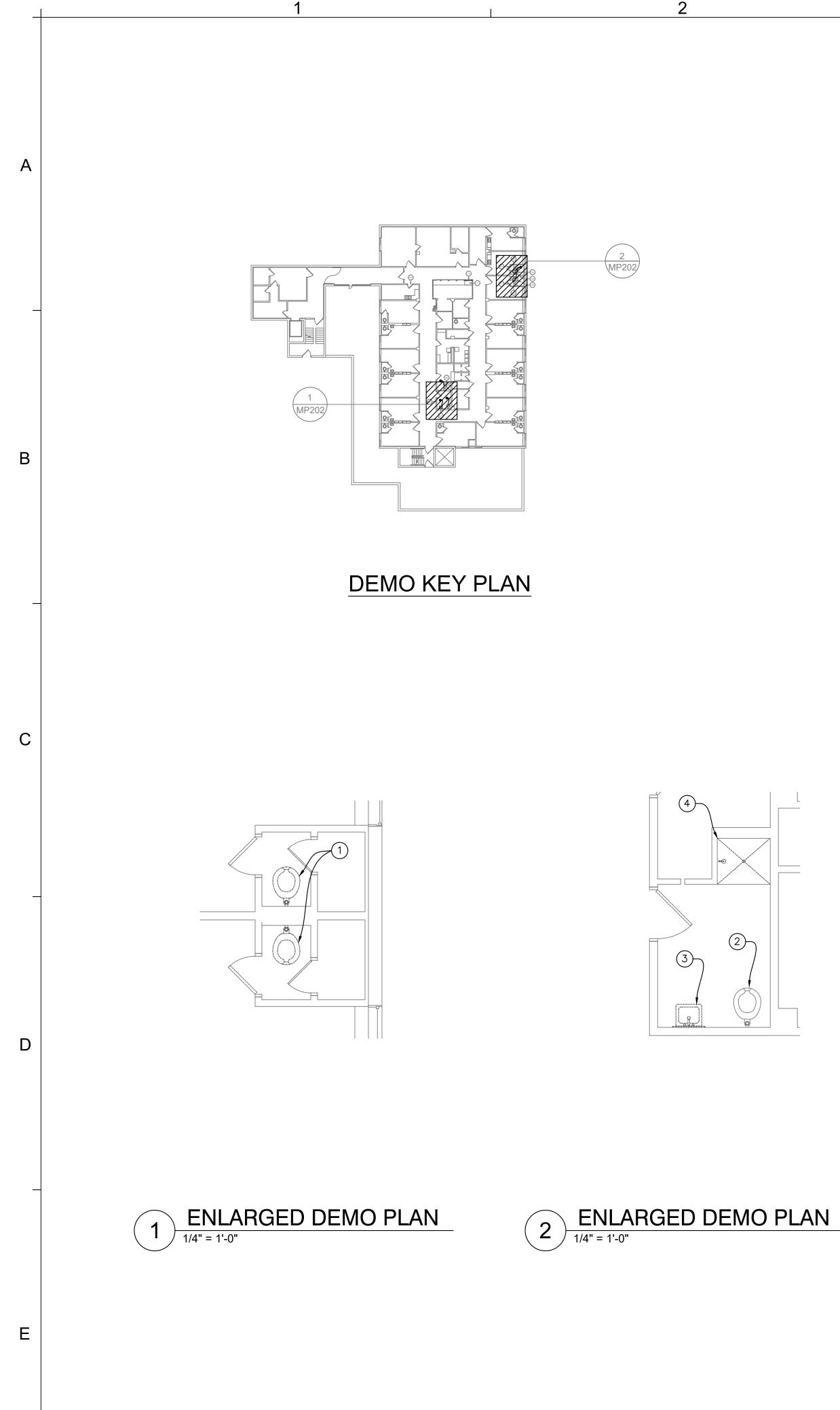
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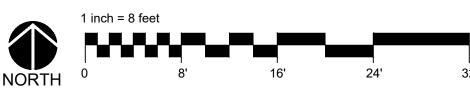
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She	et Notes
1.	DEMOLISH EXISTING WC. CAP ALL PIPING CONCEALED BELOW FLOOR/WALL. VERIFY EXACT LOCATION.
2.	DEMOLISH EXISTING WC. VERIFY EXACT LOCATION.
3.	EXISTING WC TO REMAIN, VERIFY EXACT LOCATION.
4.	EXISTING LAV TO REMAIN, VERIFY EXACT LOCATION.
5.	EXISTING UR TO REMAIN, VERIFY EXACT LOCATION.
6.	INSTALL NEW WC. MODIFY EXISTING PIPING AS REQUIRED TO CONNECT NEW 4" W., 2" V., AND $1-1/4$ " CW.

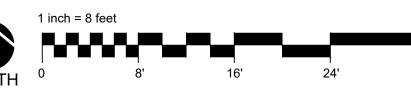
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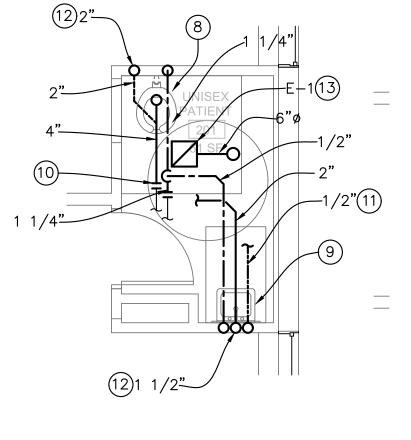




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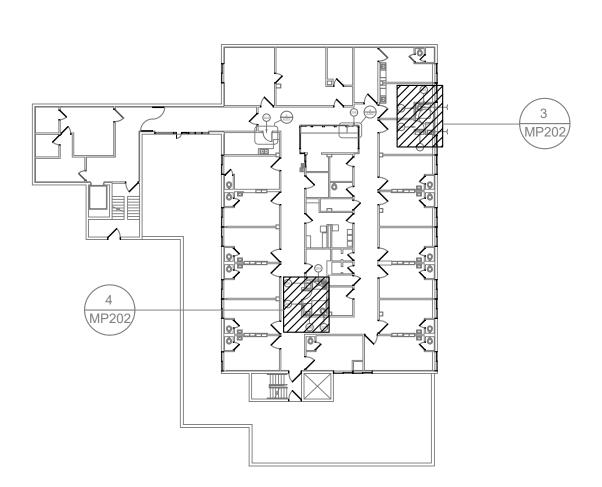




ENLARGED PLAN -PATIENT RESTROOM

4

NEW KEY PLAN

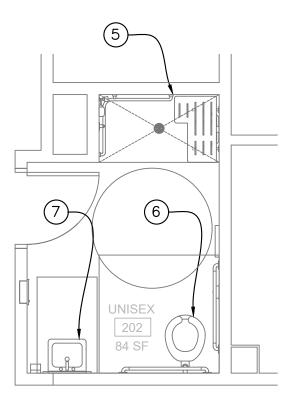


Sheet Notes

1. DEMOLISH EXISTING WC. CAP ALL PIPING CONCEALED BELOW FLOOR/WALL. VERIFY EXACT LOCATION.

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- 2. DEMOLISH EXISTING WC. VERIFY EXACT LOCATION.
- 3. EXISTING LAV TO REMAIN, VERIFY EXACT LOCATION.
- 4. DEMOLISH EXISTING SH VALVE, SH HEAD, AND DRAIN. VERIFY EXACT LOCATION.
- 5. INSTALL NEW SH. MODIFY EXISTING W., V., HW, AND CW AS REQUIRED TO CONNECT TO NEW SH.
- 6. INSTALL NEW WC. MODIFY EXISTING PIPING AS REQUIRED TO CONNECT TO NEW WC.
- 7. INSTALL NEW LAV., MODIFY AND MOVE EXISTING PIPING IN WALL AS REQUIRED TO CONNECT TO NEW LAV LOCATION.
- 8. INSTALL NEW WC. CONNECT 4" W., 2" V., AND 1 1/4" CW.
- 9. INSTALL NEW LAV. CONNECT 2 W., 1 1/2" V., 1/2" HW., AND 1/2" CW.
- 10. CONNECT TO EXISTING PIPING BELOW FLOOR, TYPICAL. VERIFY EXACT LOCATION.
- 11. RUN NEW 1/2" HW TO CONNECT TO NEAREST 3/4" OR LARGER HW PIPE.
- 12. RUN V. ABOVE CEILING TO CONNECT TO EXISTING VTR. VERIFY EXACT LOCATION.
- 13. INSTALL NEW EXHAUST FAN IN CEILING. SEE DETAIL 1/MP1.1.



4 ENLARGED PLAN -UNISEX RESTROOM

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	ISSUE	DATE: Issue Date	
	DRAW	PREPARATION AND RE	/IEW
	DESIG	NER: CLB	
	PEER	REVIEW: MCK	
-	SHEE	T NUMBER:	
		NDOC	
		MP20	ו א ו
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DEVICES	DIAGRAMS	ABBREVIATIONS
DEVICES Innetion Box - FLOOR MOUNTED + 18° A.F.F. U.O.N. JUNCTION BOX - CELING MOUNTED One of the contract of the contrac	Image: Diagrams ATS Image: Diagrams CIRCUIT BREAKER I	A AMPERES AC ALTERNATING CURRENT AF AMPERATING AF F. ADUSTABLE FREQUENCY DRIVE AFG ABOVE FINISHED FLOOR AFG ADVIDENT HAMMS JURSDOTTON AHJ ALTRENTHAMING JURT AL AUMINIUM AL AUMINIUM AN AUMINIUM AN AUMINIUM AN AUMINIUM AN AUMINIUM AN AUMINIUM ANN CONTROL PANEL
 SWITCH, OCCUPANCY SENSOR CONTROL - CEILING MOUNTED SWITCH, DAYLIGHTING SENSOR CONTROL - CEILING MOUNTED OCCUPANCY SENSOR POWER PACK PLUG LOAD CONTROLLER ROOM CONTROLLER SWITCH, PHOTO CELL TIME CLOCK CIRCUITING ELECTRICAL CIRCUIT - CONCEALED ELECTRICAL CIRCUIT - EXPOSED ELECTRICAL CIRCUIT - MORE RUN ELECTRICAL CIRCUIT - MORE RUN ELECTRICAL CIRCUIT - STUB OUT ELECTRICAL CIRCUIT - STUB DOWN ELECTRICAL CIRCUIT - CONPLETE CONNECTION OF EQUIPMENT OR DEVICE	Image: Miscellaneous	MSBMAIN SWITCHBOARDMTDMOUNTEDMTSMANUAL TRANSFER SWITCHMVMEDIUM VOLTAGE(N)NEWN, NEUTNEUTRALN/ANOT APPLICABLENCNORMALLY CLOSEDNICNOT IN CONTRACTNLNIGHT LIGHTNONORMALLY OPENNTSNOT TO SCALEOCON CENTERPTPOTENTIAL TRANSFORMERPVCPOLYVINYL CHLORIDEPBPULL BOX, ELECTRICAL(R)RELOCATEREQREQUIREDRGS, RSGRIGID GALVANIZED STEELSSSTAINLESS STELLSTDSTANDARDSWBDSWITCHBOARDSWBDSWITCHGEARTPTAMPER PROOFTVTELEVISIONTYSSTRANSENT VOLT. SURGE SUPPRESSORTYPTYPICALUFUNDER FLOORUGUNDER FLOORUGUNDER FLOORUGUNDER FLOORUFVOLTVAVOLT-AMPVFDVARIABLE FREQUENCY DRIVEWWITHUWHWATER HEATER
2	3	WHM WATT-HOUR METER WP WEATHER PROOF

2	3	4
DEVICES	DIAGRAMS	ABBREVIATIONS
Q JUNCTION BOX - WALL MOUNTED +19" AFF. U.O.N. I JUNCTION BOX - CLUINS MOUNTED Q JUNCTION BOX - CLUINS MOUNTED POWER OUTLET, SWITCHED DUPLEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, SWITCHED DUPLEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, SWITCHED DUPLEX - 419" AFF. U.O.N. POWER OUTLET, BEDICATED FOURHEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, DEDICATED SMIRLEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, DEDICATED SMIRLEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, DEDICATED SMIRLEX - WALL MOUNTED +19" AFF. U.O.N. POWER OUTLET, DEDICATED SMIRLEX - WALL MOUNTED - 19" AFF. U.O.N. POWER OUTLET, DEDICATED FOURHEX - RECOR MOUNTED FUSHIDU U.O.N. POWER OUTLET, DEDICATED FOURHEX - GLUNS MOUNTED POWER OUTLET, DEDICATED FOURHEX - GLUNS MOUNTED POWER OUTLET, OURLEX - LOOR MOUNTED ATF. U.O.N. VOICE OUTLET, WALL MOUNTED +19" AFF. U.O.N. SWITCH, SINGLE CONTROL,	ATS ATS PANEL PANEL Image:	A AMPERS AC ALTERNATING CURRENT AF AMP FRAME AFD ADJUSTABLE FROUDENCY DRIVE AFF. ABOVE FINISHED FLOOR AHJ ALTINORT HAVING UNASITION AHJ ALTINORT HAVING UNASITION AHJ ALTINORT HAVING UNASITION AL ALTINORT HAVING UNASITION ALTINORT TRANSFORMER CONTON CATU CABLE TELEVISION CC CONTON CONTON HAVING CONTON CONTON HAVING CONTO
CIRCUITING	MISCELLANEOUS	(R) RELOCATE RECP RECEPTACLE, OUTLET REQ REQUIRED RGS, RSG RIGID GALVANIZED STEEL CONDUIT
ELECTRICAL CIRCUIT - CONCEALED ELECTRICAL CIRCUIT - EXPOSED ELECTRICAL CIRCUIT - UNDER FLOOR, GROUND OR SLAB ELECTRICAL CIRCUIT - HOME RUN Image: Construct Construction of Electrical Circuit - STUB out Image: Construct Circuit - STUB DOWN Image: Construct Circuit - STUB UP Image: Construct Circuit - Complete Connection of Equipment or Device	Image: Note of the second s	RTU REMOTE TERMINAL UNIT SP SPACE, SPARE SS STAINLESS STEEL STD STANDARDS, APPLICABLE SW SWITCH SWBD SWITCHBOARD SWGR SWITCHGEAR TP TAMPER PROOF TV TELEVISION TVSS TRANSIENT VOLT. SURGE SUPPRESSOR TYP TYPICAL UF UNDER FLOOR UG UNDER GROUND U.O.N. UNLESS OTHERWISE NOTED UPS UNINTERRUPTABLE POWER SUPPLY V VOLT VA VOLT-AMP VFD VARIABLE FREQUENCY DRIVE W/ WITH W/0 WITHOUT WH WATT-HOUR METER WP WEATHER PROOF

2		3		4
DEVICES		DIAGRAMS		ABBREVIATIONS
CTION BOX - WALL MOUNTED +18" A.F.F. U.O.N. CTION BOX - FLOOR MOUNTED CTION BOX - CEILING MOUNTED VER OUTLET, DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED DUPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, SWITCHED DUPLEX - +18" A.F.F. U.O.N. VER OUTLET, FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED FOURPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED SIMPLEX - WALL MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED DUPLEX - FLOOR MOUNTED +18" A.F.F. U.O.N. VER OUTLET, DEDICATED DUPLEX - FLOOR MOUNTED, FLUSH LID U.O.N. VER OUTLET, DEDICATED FOURPLEX - FLOOR MOUNTED, FLUSH LID U.O.N. VER OUTLET, DUPLEX - CEILING MOUNTED VER OUTLET, DUPLEX - CEILING MOUNTED VER OUTLET, FOURPLEX - CEILING MOUNTED VER OUTLET, FOURPLEX - CEILING MOUNTED VER OUTLET, DEDICATED FOURPLEX - CEILING MOUNTED VER OUTLET, FOURPLEX - CEILING MOUNTED VER OUTLET, WALL MOUNTED +18" A.F.F. U.O.N. CE OUTLET - WALL MOUNTED +18" A.F.F. U.O.N. CE/DATA OUTLET - WALL MOUNTED +18" A.F.F. U.O.N. EMOLD WR CONTACT	$ \begin{array}{c} \end{array} \\ \end{array} \\ \hline \\ \hline \\ \end{array} \\ \hline \\ \hline \\ \end{array} \\ \hline \\ \hline \\ \\ \hline \\ \\ \end{array} \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ $	ATS PANEL CIRCUIT BREAKER FUSE UTILITY FUSE GROUND ROD METER METER CT	A AC AF AFD A.F.F. AFG AHJ AHU AIC AL ANN APPROX ARF ATS AWG BAT BFG CATV Q C, CND CB CCTV CKT CO COMM CONST CONT CP CPT CS CT CO CONT CP CPT CS CT CU DC DD DWG (E) EA EF EGU EM EM	ABBREVIATIONS AMPERES ALTERNATING CURRENT AMP FRAME ADJUSTABLE FREQUENCY DRIVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT AMPS INTERRUPTING CAPACITY ALUMINUM ANNUNCIATOR APPROXIMATE ABOVE RAISED FLOOR AUTOMATIC TRANSFE SWITCH AMERICAN WIRE GAUGE BATTERY BELOW FINISH GRADE CABLE TELEVISION CENTERLINE CONDUIT CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CIRCUIT CONDUIT ONLY COMMUNICATIONS CONSTRUCTION CONTROL POWER TRANSFORMER CONTROL POWER TRANSFORMER CONTROL POWER TRANSFORMER CONTROL POWER TRANSFORMER CONTROL DSWITCHED RECEPTACLE CURRENT TRANSFORMER COPPER DIRECT CURRENT DEMOLITION DRAWING EXISTING EACH EXHAUST FAN ENGINE GENERATOR UNIT EMERGENCY LIGHT WIBATTERY BACKUP ELECTRICAL METALLIC CONDUIT
LIGHTING			EMI ENT EQ EQUIV EWC (F) FA FA FACP	ELECTRICAL METALLIC CONDUIT ELECTRICAL NON-METALLIC CONDUIT EXPLOSION PROOF EQUAL EQUIVALENT ELECTRIC WATER COOLER FUTURE FIRE ALARM FIRE ALARM CONTROL PANEL
LIGHT FIXTURE, 1 x 4 - SURFACE MOUNTED LIGHT FIXTURE, 1 x 8 - SURFACE MOUNTED		EQUIPMENT DISCONNECT, NON-FUSED DISCONNECT, WITH FUSE STARTER, NON-FUSED	FC FDR FLUOR FU G, GND GFCI GFI GFR HID HO HOA	FAN COIL FEEDER FLUORESCENT FUSE GROUND GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER GROUND FAULT RELAY HIGH INTENSITY DISCHARGE CONTROL SWITCH, "HAND - OFF" CONTROL SWITCH, "HAND - OFF- AUTO"
CONTROLS		STARTER, WITH FUSE DIVISION 15 FAN	HOR HP HPS HV	CONTROL SWITCH, "HAND - OFF- REMOTE" HORSE POWER HIGH PRESSURE SODIUM HIGH VOLTAGE
TCH, SINGLE CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, 3-WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, 4 WAY CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, DUAL LEVEL CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, DIMMER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, JIMMER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, 3 WAY DIMMER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, MOTOR RATED - NOTED MOUNTING TCH, TIMER - WALL MOUNTED +42" A.F.F. U.O.N. TCH, WITH PILOT LIGHT - WALL MOUNTED +42" A.F.F. U.O.N. TCH, MASTER CONTROL - WALL MOUNTED +42" A.F.F. U.O.N. TCH, OCCUPANCY SENSOR CONTROL - WALL MOUNTED +42" A.F.F U.O.N. TCH, OCCUPANCY SENSOR CONTROL - CEILING MOUNTED TCH, DAYLIGHTING SENSOR CONTROL - CEILING MOUNTED SUPANCY SENSOR POWER PACK G LOAD CONTROLLER DM CONTROLLER TCH, PHOTO CELL E CLOCK		STARTER, WITH CIRCUIT BREAKER PANELBOARD FLUSH PANELBOARD SURFACE ENCLOSURE SURFACE DISTRIBUTION BOARD METER SECTION MOTOR	HVAC IC IG IMC JB KV KVA KW KWH LPS LTG LV MAX MC MCC MCP MFR, MFGR MH MIN MLO MDP MSB MTD MSD MTD MSB MTD MSD MTD MSD MTD MSD MTD MSD MTD MSD MTD MSD MTD MS MTD MSD MTD MS MTD MS MTD MSD MS MTD MS MTD MS M	HEATING, VENTILATION & AIR-COND. INTERRUPTING CAPACITY ISOLATED GROUND INTERMEDIATE METAL CONDUIT JUNCTION BOX KILO VOLT KILO VOLT KILO VOLT-AMP KILO WATT KILO WATT KILO WATT-HOUR LOW PRESSURE SODIUM LIGHTING LOW VOLTAGE MAXIMUM METAL-CLAD MOTOR CONTROL CENTER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTOR MANUFACTURER METAL HALIDE MINIMUM MAIN LUGS ONLY MAIN DISTRIBUTION BOARD MAIN SWITCHBOARD MOUNTED MANUAL TRANSFER SWITCH MEDIUM VOLTAGE NEW NEUTRAL NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NOT TO SCALE ON CENTER PANEL POTENTIAL TRANSFORMER POLYVINYL CHLORIDE PULL BOX, ELECTRICAL RELOCATE RECEPTACLE, OUTLET PEOLUBED
CIRCUITING		MISCELLANEOUS	REQ RGS, RSG RTU SP	REQUIRED RIGID GALVANIZED STEEL CONDUIT REMOTE TERMINAL UNIT SPACE, SPARE
ELECTRICAL CIRCUIT - CONCEALED ELECTRICAL CIRCUIT - EXPOSED ELECTRICAL CIRCUIT - UNDER FLOOR, GROUND OR SLAB ELECTRICAL CIRCUIT - HOME RUN ELECTRICAL CIRCUIT - STUB OUT ELECTRICAL CIRCUIT - STUB DOWN ELECTRICAL CIRCUIT - STUB UP ELECTRICAL CIRCUIT - COMPLETE CONNECTION OF EQUIPMENT OR DEVICE	$\begin{array}{c} XX \\ XX-XX \\ \hline 1 \\ \hline \\ XXXX \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline \hline$	DEMO KEYED NOTE TAG ELECTRICAL EQUIPMENT TAG KEYED NOTE TAG LIGHT FIXTURE TAG MECHANICAL EQUIPMENT TAG REVISION DELTA EQUIPMENT MANUFACTURER'S IDENTIFICATION NUMBER	SS STD SW SWBD SWGR TP TV TVSS TYP UF UF UG U.O.N. UPS V VA VFD W/ W/ W/0 WH	STAINLESS STEEL STAINLESS STEEL SWITCH SWITCHBOARD SWITCHGEAR TAMPER PROOF TELEVISION TRANSIENT VOLT. SURGE SUPPRESSOR TYPICAL UNDER FLOOR UNDER GROUND UNLESS OTHERWISE NOTED UNINTERRUPTABLE POWER SUPPLY VOLT VOLT VOLT-AMP VARIABLE FREQUENCY DRIVE WITH WITHOUT WATER HEATER
			WH WHM WP	WATER HEATER WATT-HOUR METER WEATHER PROOF

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ELECTRICAL SHEET INDEX			REVISION SCHEDU	
E001 ELECTRICAL LEGEND AND ABBREVIATIONS E002 ELECTRICAL SHEET SPECIFICATIONS E101 ELECTRICAL PLAN - FIRST FLOOR		NO.	DESCRIPTION	DATE
E102 ELECTRICAL PLAN - SECOND FLOOR	A			
		SEAL:	40 PROFESS/04 40 TNEY A. CAPT 50 50 10 10 10 10 10 10 10 10 10 1	legane
	В	CONSUL	TANT:	
	C	PROJEC A IM 72	CORONER PARK, CA 949 WWW.BROKAWDESIGN.C	27 SOM
 A. ALL HEIGHTS ARE TO CENTERLINE OF DEVICE B. FOLLOW ALL ADA REQUIREMENTS: MAX UNOBSTRUCTED FORWARD REACH 48-INCHES TO TOP OF DEVICE. MIN UNOBSTRUCTED FORWARD REACH 15-INCHES TO BOTTOM OF DEVICE. MAX OBSTRUCTED FORWARD REACH 44-INCHES TO TOP OF DEVICE. 	D		NAME: ELECTRIC/ LEGEND AN BBREVIATIO	ND
	E		PREPARATION AND REV N BY: MOB NER: MOB	<u>/IEW</u>
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1.01- RELATED DOCUMENTS

A. The General Conditions, Supplementary Conditions and Division 1 apply to the electrical work.

1.02 - WORK INCLUDES

- A. Work included in this section: All materials, labor, equipment, services, and incidentals necessary to install the Electrical Work as shown on the drawings and as specified hereinafter, including, but not limited to the following:
- 1. Branch circuit wiring, wiring devices and connections to all equipment requiring electrical service. 2. Lighting fixtures with hangers, anchors and supports. Lighting Controls.
- 3. Electrical equipment grounding system.
- 4. Mechanical equipment power and control connections as stated in the mechanical and electrical specifications and as shown on the mechanical and electrical drawings.
- Sleeves, inserts and blocking in cast concrete as required for work in this section. 6. All required incidental work, such as excavating and backfilling, roof flashing, and testing.
- 7. Any other electrical work as might reasonably be implied as required, even though not specifically mentioned herein or shown on the drawings.

1.03 - INCORPORATED DOCUMENTS

- A. Requirements of the General Conditions, Supplementary Conditions, and Division 1. Sections apply to 2.01 GENERAL all work in this Section, unless modified herein.
- B. Published specifications, standard tests or recommended methods of trade, industry or government organizations apply to work of this Section where cited by abbreviations noted below, unless modified
- 1. National Electrical Code, latest edition, (NEC).
- 2. NEMA standards
- 3. Underwriters' Laboratories, Inc. (UL). 4. Local Utility Company regulations.
- 5. National Fire Protection Association (NFPA)
- 6. California Administrative Code (CAC)
- C. All State and Municipal Codes and Ordinances recognized by the Authority Having Jurisdiction, including but not limited to:
- 1. Latest Edition BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE C.C.R. 2. Latest Edition - CALIFORNIA BUILDING CODE (CBR), PART 2, TITLE 24 C.C.R.
- 3. Latest Edition CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 4. Latest Edition CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 5. Latest Edition CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 C.C.R. 6. Latest Edition - CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 7. Latest Edition CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24 C.C.R.
- 8. Latest Edition TITLE 19 C.C.R.

1.05 - QUALITY ASSURANCE

- A. Conformance:
- 1. All work shall conform to the applicable requirements of Article 1.03 above. 2. The Contractor shall notify the Architect, prior to submission of bid, about any part of the design
- which fails to comply with abovementioned requirements.
- 3. If after contract is awarded, minor changes and additions are required by aforementioned authorities, even though such work is not shown on drawings or covered in specifications, they shall be included at Contractor's expense.
- B. Coordination:
- 1. The Contractor shall become familiar with the conditions at the job site, and with the drawings and specifications and plan the installation of the electrical work to conform with the existing conditions and that shown and specified so as to provide the best possible assembly of the combined work of all trades.
- 2. The Contractor shall work out in advance all "tight" conditions, involving all trades and if found necessary, supplementary drawings shall be prepared by this Contractor, for the Architect's approval, before work proceeds in these areas. No additional costs will be considered for work which must be relocated due to conflicts with the work of other trades.

1.06 - SUBMITTALS A. Product Data:

- 1. Comply with the General Provisions of the Contract.
- 2. Within 15 days after award of the Contract, submit:
 - a. Complete material list of all items proposed to be furnished and installed under this Section, including but not limited to the following items: Circuit breakers, lighting fixtures, conduit, devices, enclosures, etc.
 - b. Manufacturers' specifications and other data required to demonstrate compliance with the specified requirements. c. Manufacturers' recommended installation procedures which, when approved by the
 - Architect, shall become the basis for inspecting and accepting or rejecting actual installation procedures used on the work.
- 3. Shop Drawings: Furnish shop drawings and/or equipment cuts for the following:
 - a. Light Fixtures b. Switchboard
 - c. Panelboards
 - d. Disconnect Switches
 - e. Lamps
 - f. Ballasts
- g. Lighting Control System h. Switches, receptacles and faceplates.
- Test Reports:
 - a. Factory Tests where indicated for specific equipment.
 - b. Field Tests: Performance tests as specified for specific equipment. c. When series rated circuit breakers are used, provide a letter from the manufacturer of the equipment confirming that U.L. series rating exists for all protective devices. State the available fault current from the Utility Company and indicate that the overcurrent devices

D

1.07- MATERIALS A. Materials of the same type or classification, used for the same purpose, shall be the product of the same manufacturer.

exceed the available fault current at the respective point of protection.

1.08 - ACCEPTABLE MANUFACTURERS

- A. Materials shall be of make mentioned elsewhere in this specification. All materials shall be the best of their several kinds, perfectly new and approved by the Underwriters' Laboratories.
- B. Where material, equipment, apparatus or other products are specified by manufacturer, brand name, type or catalog number, such designation is to establish standards of desired quality, style and utility and shall be the basis of the bid. Materials so specified shall be furnished under the contract unless changed by written approval of the Owner's Representative. Where two or more designations are listed, choice shall be optional with this Contractor, but this Contractor must submit his choice for final approval.
- 1.09 DELIVERY, STORAGE AND HANDLING
- A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
- B. Delivery and Storage: Deliver all materials to the job site in their original containers with all labels intact and legible at time of use. Store in strict accordance with approved manufacturers' recommendations.
- C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect and at no additional cost to the Owner.
- D. This Contractor shall personally, or through an authorized representative, check all materials upon receipt at jobsite for conformance with approved shop drawings and/or plans and specifications.

1.10 - SCHEDULING/SEQUENCING

- A. Place orders for all equipment in time to prevent any delay in construction schedule or completion of project. If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet the construction schedule, together with any special handling charges, shall be borne by this Contractor.
- 1.11 REQUIREMENTS

- A. The contract drawings indicate the extent and general arrangements of the conduit wiring systems, etc. If any departures from the contract drawings are deemed necessary by the Contractor, details of such departures and the reasons therefore shall be submitted as soon as practicable, and within 10 days after award of the electrical contract.
- B. UNLESS MATERIAL LIST AND DATA IS RECEIVED AS A COMPLETE AND ALL INCLUSIVE SUBMITTAL WITHIN THE STIPULATED TIME ALL ITEMS SHALL BE PROVIDED AS SPECIFIED-
- WITH NO DEVIATIONS PERMITTED C. Any and all additional costs incurred by the substitution of electrical material or equipment, or installation thereof, whether architectural, structural, plumbing, mechanical or electrical, shall be borne
- by the Contractor under this section.

1.12 - IDENTIFICATION

A. Each branch circuit of panelboards to have a permanently fixed number with directory, mounted under celluloid on inside of cabinet door, showing circuit numbers, room number feed and typewritten description of equipment supplied by breakers.

PART 2 - PRODUCTS:

- A. Materials shall be new, packed in original containers, installed and turned over to the Owner free of defects
- Materials shall bear Underwriters' Laboratory label. C. Furnish equipment and materials for any one system by same manufacturer.
- 2.02 MATERIALS

A. Conduit

- 1. Conduit shall be delivered to the site of construction in the original bundles. Each length shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job, before installation, shall be removed from the premises upon notice.
- 2. Raceway and boxes located as indicated on drawings and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.

3. Properties:

- a. Rigid Steel: Hot dipped galvanized with completely watertight fittings.
- Couplings and elbows in soil or under membrane to be 1/2 tape wrapped with Scotch
- #50 tape and threaded ends coated with red lead prior to installation of couplings b. "Schedule 40" PVC shall be provided with code size minimum bare No. 12 ground wire
- "Schedule 40 or 80" elbows
- "Schedule 40 or 80" or RGS stub-ups.
- c. Flexible metal type:
- Flexible metal type provide with code size (minimum No. 12) bare ground wire in all flexible conduit.
- 4. Installation:

a. Install no more than the equivalent of three 90 degree bends between boxes or outlets b. Use flush mounting outlet boxes in finished areas.

- Do not install flush mounting boxes back-to-back in walls.
- Provide minimum 6-inch separation between adjacent boxes.
- Provide minimum 24-inch separation in acoustic rated walls. Secure flush mounting box to interior wall and partition studs.
- Accurately position to allow for surface finish thickness.
- Install flush mounting box without damaging wall insulation or reducing its effectiveness.
- c. Support boxes independently of conduits.
- d. Conduit Bends Long Radius. e. Provide conduit seals at all concrete slab penetrations.
- 5. Installation Location:

b. Indoor Locations:

D. Power Wire and Cable:

1. Installation:

Properties:

 a. Outdoor Locations: • Above Grade: Provide RGS conduit tape wrapped.

Exposed Dry Locations: Provide EMT or RGS.

with threaded hubs for conduit entry. Conduit seals.

approved equal plastic type strapping.

packages; wire color coded as follows

except as noted.

120/240 1p3w

120\208 3p 4w

3w

in accordance with NEC 250-64(e).

Ground all isolated sections of metallic raceways.

electrical devices and equipment enclosures.

208

testing purposes.

through bushing.

at the transformer.

receptacle.

E. Grounding:

pigtails, with no interruption of the branch circuit conductors.

• In Soil: Provide Sched 40 or 80 PVC with Sched 40 or 80 PVC elbows. Tape wrapped RGS may be used for stub-up.

Concealed Dry Locations: Provide electrical metallic tubing unless otherwise noted. MC

c. Locations subject to Corrosive Atmosphere: Provide PVC coated, galvanized rigid steel or

d. Hazardous Locations (Per NEC Article 500): Galvanized rigid steel conduit. Cast iron boxes

a. Connections to devices from "through_feed" branch circuit conductors to be made with

b. Neutral conductor identified by white outer covering braid, with different tracers of "EZ"

cabinet, and panelboard in which it appears with "EZ" numbering tags.

c. Neatly arrange and "marlin" wired in panels and other equipment with "T and B Ty-rap" or

d. Label each wire of each electrical system in each pull box, junction box, outlet box, terminal

a. Copper 90% conductivity. Solid copper for conductors smaller than No. 10 AWG. Stranded copper for conductors No. 10 AWG and larger. No conductors smaller than No. 12 AWG,

b. Insulation type: #12 to #1/0 AWG: THWN for wet locations and THHN for dry locations.

#1/0 through #4/0 AWG: XHHW (55 Mils). 250MCM and larger: XHHW (65 Mils).

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Blue

Blue

White

White

2

c. All wire and cable shall bear the Underwriters' Label, brought to the job in unbroken

Red

3. Grounding electrode conductor: bare stranded copper type, #1/0 minimum or per NEC Table 250.66.

6. Use approved pressure type solderless connector or use fusion welding for all connections to and

7. Terminate grounding conduits at equipment with ground bushing, with ground wire connected

8. Provide No. 12 stranded (green) THHN conductor from outlet box to ground screw of every

11. Provide an unspliced grounding electrode conductor to the grounding electrode system

10. Provide #12 minimum stranded (green) THHN conductor sized per NEC, or as noted, connected

continuously throughout branch circuit for all circuits, bonded to panel ground bus, and to all

12. Where the transformer supplying the service is located outside the building, at least one additional

13. After installation, test system, using the three-point fall of potential method only. Record results and

grounding connection shall be made from the grounded service conductor to a grounded electrode

bonding of grounding electrode system. All connections shall be visible, readily accessible for

conductors in accordance with NEC 250-64. Grounding conductors shall be in conduit and installed

Voltage Phasing A Phase B Phase C Phase Neutral

Black Red

Black Red

Black

2. Provide and install a grounding electrode system on all separate buildings.

5. All grounding electrode conductor connections "thermite" or "cad_weld" welded.

1. Provide and install grounding system as noted on the Drawings.

numbering tags used where more than one neutral conductor is contained in a single unit.

- In Concrete: Provide hot dipped galvanized rigid steel or Sched 40 PVC Conduit.
- Motor / Flexible Connection: WP Flexible metal conduit. • Watertight and corrosion resistant fittings, couplings, boxes, etc.

cable may be used as described below under Power and Wiring.

intermediate steel conduit. Provide PVC coated cast or sheet metal boxes.

submit to Architect for approval. If resistance to ground exceeds three (3) ohms, install additional ground rods, bonded and interconnected to grounding electrode system. Provide additional grounding until resistance is less than three (3) ohms.

- 14. Provide a bonding jumper to the building interior metal water piping, exposed interior structural steel, interior metal gas piping, and other interior metal piping in accordance with nec 250-68. establish the connections at accessible locations and provide bonding jumpers across removable or
- electrically non-continuous joints. 15. Connect grounding electrode system to metallic water service entry metallic cold water pipe (if available) with nonferrous clamp and 1-#4 B.C. in conduit, connection shall be accessible for
- inspection. 16. Connect grounding electrode system to building steel . Use exothermic weld, connection shall be accessible for inspection.
- 17. Grounding Electrode System shall be as follows:
 - a. The grounding electrode system shall consist of a ufer ground (if feasible), all available building metal structure, all available metal underground water piping, and ground rods (made electrodes) or ground ring (if ufer ground it not available, in existing building or if resistance needs to be lowered). bond the electrodes together in accordance with NEC 250-50.
 - Ufer Ground:
 - Provide a concrete encased (ufer) grounding electrode per NEC 250-52(3) consisting of at least 30' of bare copper conductor min #1/0 awg (or sized per nec table 250.66) encased in concrete, conductor located 2-inch min from bottom, concrete foundation shall be in direct contact with the earth. This ufer ground shall be of the same size and continuous with the grounding electrode conductor as indicated. Embed in foundation with a loop at approximate center, brought out at top of foundation adjacent to building service equipment for connection to service equipment and for bonding to other parts of the grounding system.
 - Ground Ring:
 - Provide a ground ring encircling the building per NEC 250-52(4) consisting of at least 40' of bare copper conductor min #4/0 awg. the ground ring shall be buried at a depth not less than 30 inches below the earths surface. Ground Rod:
 - Furnish and install two "Copperweld" 3/4" x 10'-0" ground rods a minimum of 10'-0" apart. Install ground rods in accessible boxes with covers. Furnish and install 2-#4/0 bare copper cables between ground rods and main switchboard ground bus. Provide an additional ground rod if resistance of ground rod exceeds 25 ohms. Ground rod spaced a minimum of 6-feet apart in accordance with NEC 250-56.
- B. Conduit Fittings:
- 1. Metal Conduit Fittings shall conform to the requirements of UL 514B where this standard applies. Galvanized steel fittings shall be used with steel conduit. Threaded fittings shall engage a minimum of five threads made up wrench-tight and be compatible with conduit. EMT fittings shall be compression type, UL approved for rain tight applications and setscrew type with insulated throat for indoor applications.
- 2. Liquid-Tight Flexible Conduit Fittings shall be galvanized steel, T&B 53XX series insulated throat, and shall bear the UL label. Die-cast malleable fittings are not acceptable.
- 3. Liquid-Tight Flexible Metal Conduit Fittings shall be galvanized steel..
- 4. Non-Metallic Conduit Fittings shall be of same material and strength characteristics as the conduit and shall be solvent welded as recommended by manufacturer. End bells shall be plastic, high impact, tapered to fit. Where conduit transition from non-metallic to metallic is required, provide non-metallic female "terminal" adapter. Non-metallic "male" adapters are not acceptable.
- C. Outlet Boxes and Junction Boxes:
- 1. Galvanized one piece steel knockout type, unless otherwise noted, sizes as required for conditions at each outlet or as noted, not smaller than 2 inches wide by 4 inches high, ganged where multiple switch locations are indicated.
- 2. Outlet boxes located on exterior to be flush type with cast aluminum gasketed covers; spring lid with lockable covers for receptacles.
- 3. All connectors from conduit to junction or outlet boxes shall have integral insulated throats. 4. Outlet boxes for telephone and cable TV outlets shall be 4" square minimum with single gang plaster
- rings. 5. Concrete pull boxes and hand holes for power, lighting, controls and telecommunications shall be pre-cast concrete boxes, sized as indicated on the drawing or per NEC requirements. Pull boxes shall be equipped with a concrete cover for non traffic rated locations OR cast-in frame, galvanized steel, adjustable, high impact traffic cover (H-20 load rated), lifting lugs, and conduit knock-outs. Knockout location and sizes shall be coordinated with the duct bank for each location. Cover shall be engraved with the words -
- "POWER", "LIGHTING", "CONTROLS", "COMM/DATA", "TELEPHONE" or similar as applicable.
- F. Circuit Breakers:
- 4. General: Circuit breakers shall be molded case rated for 240 volts, multiple or single pole and amperage rating as shown on the drawings, bolt on, manually operated with "de-ion" arc chutes. 5. Main circuit breaker shall be shall be rated to interrupt the available short circuit current from utility company requirements.
- 6. Distribution circuit breakers shall be U.L. series rated with the main circuit breaker. 7. Where mechanical equipment is U.L. listed for overcurrent protection with fuses or HACR type circuit
- breakers, provide fuses where a fused switch is shown. Where the overcurrent protection is a circuit breaker provide HACR, (HACR means Heating, Air-Conditioning and Refrigeration) type. 8. Provide AFCI circuit breakers in all bedrooms.
- 9. Provide tamper resistant receptacles for all 125V, 15 and 20A receptacles less than 5.5ft AFF. Tamper resistance receptacles are not required where the receptacle is dedicated to a specific
- appliance. 10. Provide GFCI rated circuit breakers in all locations within 6-feet of water.
- Q. Lighting Fixtures:
- 1. As listed in fixture schedule completely lamped with new lamps, properly operating at time of acceptance of electrical work.
- 2. Contractor shall burn in lamps per manufacturer's instructions. 3. Ballasts in refrigerated spaces or outdoors shall be zero (0) degree F. temperature rated.
- PART 3 EXECUTION

3.01 - INSPECTION

- A. Examine the areas and conditions under which the work of this Section will be installed. Correct conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.
- 4. Install ground wires in rigid conduit. Provide physical protection for grounding electrode and bonding 3.02 PREPARATION A. Drawings
 - 1. The general arrangement and location of wiring and equipment is shown on the electrical drawings and shall be installed in accordance therewith, except for minor changes required by conflict with the work of other trades.
 - 2. Control wiring is generally not shown on the plans. Contractor shall refer to control diagrams and
 - provide and install all wiring and raceways required to make all interconnections. 3. All dimensions, together with locations of doors, partitions, etc. are to be taken from the Architectural Drawings, verified at site by this Contractor.
 - 4. Maintain "as-constructed" Record Drawings at all times, showing the exact location of concealed conduits and feeders installed under this contract, and actual numbering of each circuit. Upon completion of work and before acceptance can be considered, this Contractor must forward to the Owner's Representative corrected Record Drawings in Autocad format indicating the electrical work as installed.

3.03 - FIELD QUALITY CONTROL

- A. All workmanship shall be first class and carried out in a manner satisfactory to and approved by the Architect.
- B. This Contractor shall personally, or through an authorized and competent representative, constantly

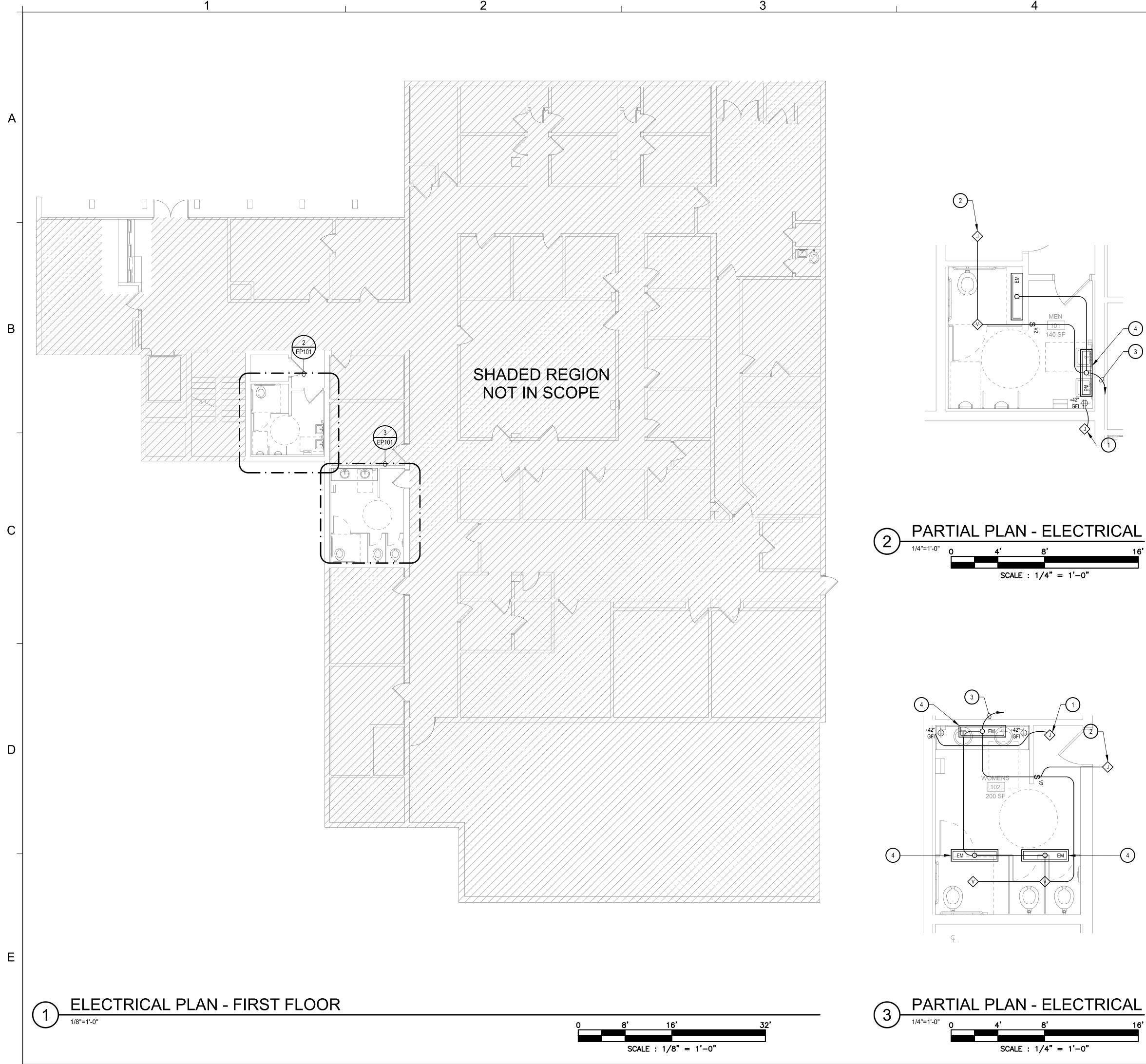
supervise the work and so far as possible keep the same foreman and workmen on the job throughout.

- 3.04 INSTALLATION/APPLICATION/ERECTION
- A. Cutting, repairing and structural reinforcing for the installation of this work shall be done by the General Contractor in conformance with the Architect's requirements.
- B. Provide and place in form work all conduit, inserts and sleeves in time to prevent any delay in the concrete work.

3.05 - ADJUSTING AND CLEANING

- A. Main switchboard, panelboards and all other electrical equipment not "finish painted" under other sections shall be touched up where finished surface is marred or damaged. Panelboards in finished areas shall be painted to match wall.
- B. All equipment, lighting fixtures, etc., shall be left in clean condition, with all shipping and otherwise unnecessary labels removed therefrom
- C. Excavate and trench as necessary for the electrical installation, and when the work has been installed, inspected and approved, backfill all excavations with imported sandy soil in maximum 8" (eight inch) layers, moisten and machine tamp to 95% compaction, and restore the ground and/or paving or floor surfaces to their original condition. Comply with requirements of Division 2.
- 3.06 SCHEDULES
- A. Coordination: Coordinate installation of electrical items with the schedule for other work to prevent unnecessary delays in the total Work
- 3.07 TESTING
- A. Grounding System: 1. All ground connections shall be checked and the entire system shall be checked for continuity. The resistance of the ground system shall be measured using a 3 point fall of potential method. The maximum ground resistance shall be three ohms. If the measured ground resistance exceeds three ohms, additional ground rods shall be installed until a value of three ohms or less is obtained. 2. Ground tests shall meet the requirements of the National Electric Code.
- B. Lighting Systems:
- 1. The interior and exterior lighting systems shall be checked for proper local controls and operation of entire installation, including the operation of the low voltage lighting control system.
- C. Power Distribution System: 1. Tests: Test main switchboard, distribution boards, and panelboards for grounds and shorts with mains disconnected from feeders, branch circuits connected and circuit breakers closed, all fixtures in place and permanently connected and grounding jumper to neutral lifted and with all wall switches
- 2. Test each individual circuit at each panelboard with equipment connected for proper operation.
- Inspect the interior of each panel. 3. Check verification of color coding, tagging, numbering, and splice make up.
- 4. Verify that all conductors associated with each circuit are in same conduit.
- 5. Demonstrate that all lights, jacks, switches, outlets, and equipment operate satisfactorily and as called for.

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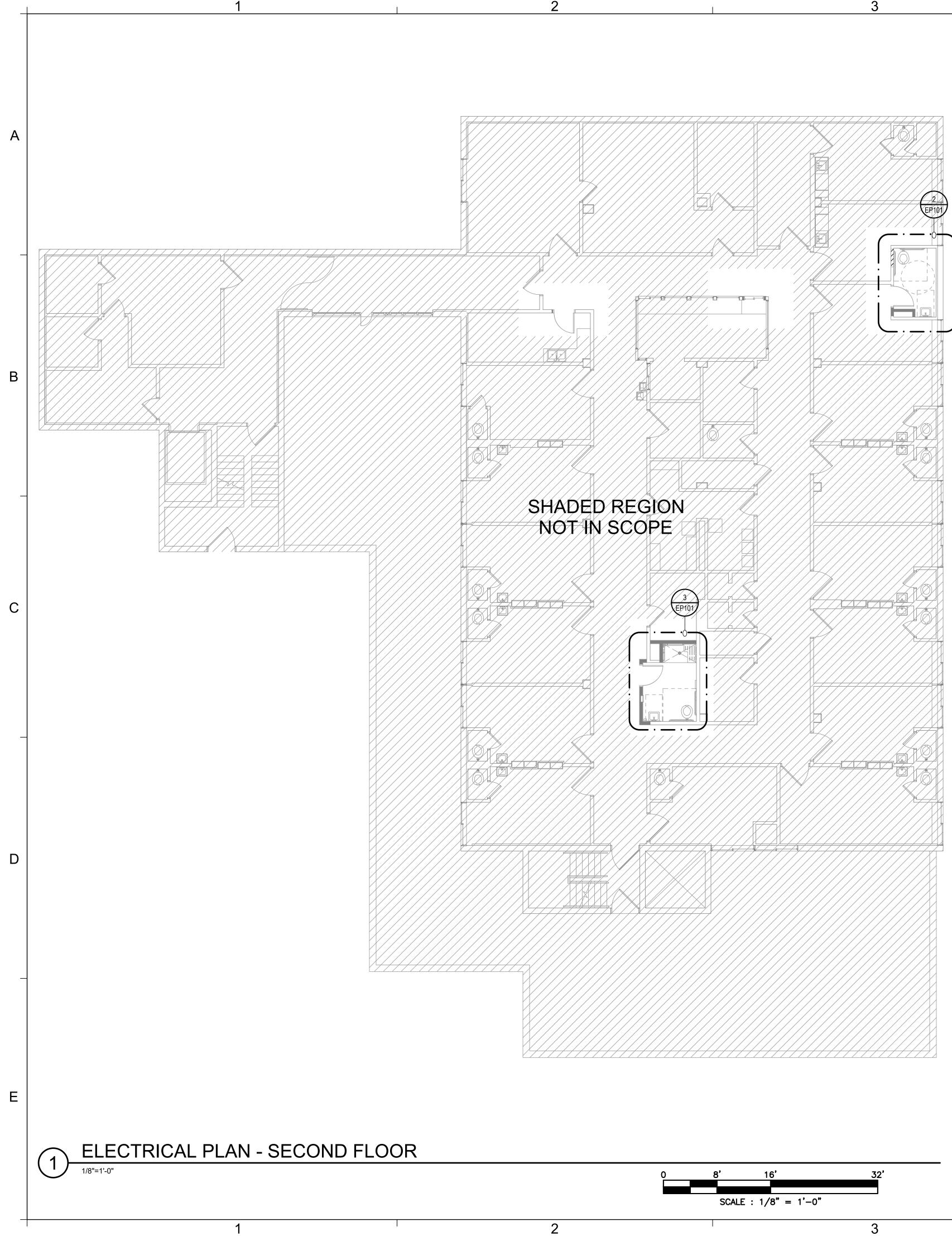
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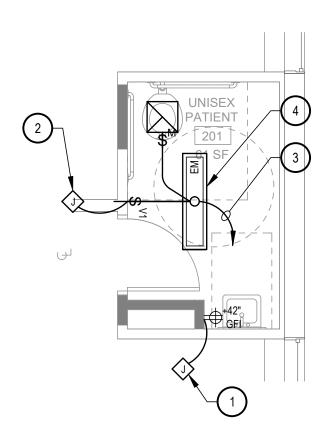
- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATED CEILING INFORMATION. MINOR ADJUSTMENTS IN LOCATION MAY BE REQUIRED BY THE CONTRACTOR AND PROVIDED AT NO ADDITIONAL COST TO THE OWNER AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- B. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES IN ALL SPACES WITH THE ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE LIGHT FIXTURES TO BE INSTALLED. THE FIXTURE SHALL BE PROVIDED WITH ALL NECESSARY HARDWARE, CLIPS, TRIM, ETC. FOR A COMPLETE AND "FINISHED" INSTALLATION.
- LUMINAIRES RECESSED INTO INSULATED CEILINGS SHALL BE RATED FOR С INSULATION CONTACT ("IC-RATED").
- D. ALL LIGHTING CONSTRUCTION SHALL BE COORDINATED TO MAINTAIN WALL AND CEILING RATING INDICATED ON THE ARCHITECTURAL DOCUMENTS.
- E. ALL LOW VOLTAGE (0-50 volt) LIGHTING CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
- CENTER ALL EXIT SIGNS IN DOOR WAYS WITH BOTTOM OF SIGN AT +2" ABOVE F. DOOR FRAME U.O.N.
- G. PROVIDE ALL NECESSARY BLOCKING AND REQUIRED METHODS OF ATTACHMENT TO MEET AHJ'S APPROVAL FOR MOUNTING OF ALL LIGHTING FIXTURES.
- H. PATCH AND REPAIR ALL WALLS DAMAGED DUE TO DEMO / NEW INSTALLATION. PAINT TO MATCH.
- I. PAINT ALL PANELS TO MATCH EXISTING WALLS.

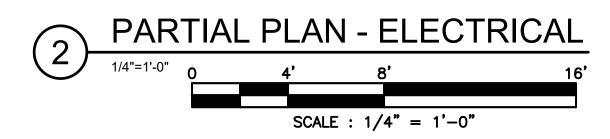
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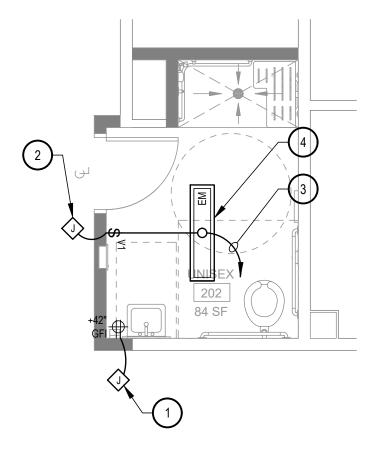
- 1. INTERCEPT (E) BRANCH RECEPTACLE CIRCUIT. EXTEND TO NEW RECEPTACLE. PROVIDE NEW OUTLET AND CONNECT COMPLETE.
- 2. INTERCEPT (E) BRANCH LIGHTING CIRCUIT. EXTEND TO NEW LIGHT FIXTURE VIA NEW OCCUPANCY SENSOR. CONNECT COMPLETE.
- 3. CONNECT EMERGENCY BALLAST TO AN UNSWITCHED LEG OF THE BRANCH CIRCUIT FEEDING THE LIGHT FIXTURE.
- 4. PROVIDE NEW ACRYLIC WRAPAROUND LIGHT FIXTURE WITH BATTERY BALLAST. LITHONIA CLXL48 3000LM SEF RDL WD MVOLT 3500K 80CRI E10WLCP.

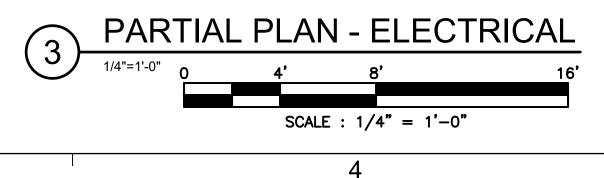
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