



COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENT

3015 H Street Eureka CA 95501 Phone: (707)445-7541 Fax: (707) 268-3792

Hearing Date: May 16, 2019

To: John H. Ford, Humboldt County Zoning Administrator

From: Steve Werner, Supervising Planner

Subject: **CalFire Trinidad – Domestic Water Supply Project**
Coastal Development Permit
Case Number PLN-2019-15312
Assessor's Parcel Number (APN) 515-241-011
923 Patricks Point Drive, Trinidad Area

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Please contact Michael Wheeler, Senior Planner, at 268-3730, or by email at mwheeler@co.humboldt.ca.us if you have any questions about the scheduled public hearing item.

AGENDA ITEM TRANSMITTAL

Hearing Date	Subject	Contact
May 16, 2019	Coastal Development Permit	Michael Wheeler

Project: A Coastal Development Permit (CDP) application for extending potable water service to the CalFire Trinidad Station from the City of Trinidad by installation of a 1.5-inch diameter high density polyethylene water line beneath Patricks Point Drive (approximately 5,400 linear feet) and for connection to the existing 10,000-gallon tank at the facility (approximately 600 linear feet).

Project Location: The project is located in Humboldt County, in the Trinidad area, on the east side of Patricks Point Drive, approximately 1.05 miles north from the intersection of Main Street and Patricks Point Drive, on the property known as 923 Patricks Point Drive.

Present Plan Designations: 515-241-011: Public Facility (PF) Density: N/A); Other sites: N/A, State of California/Humboldt County Right-of-Way.

Present Zoning: (PF2/D;U) Coastal: Public Facility-Rural (PF2), Design Review (D); Other sites: N/A, State of California/Humboldt County Right-of-Way.

Case Number: PLN-2019-15312

Assessor's Parcel Numbers: 515-241-011, and California/Humboldt County Right-of-Way.

Applicant	Owner	Agent
CalFire Trinidad 923 Patricks Point Drive Trinidad, CA 95570	Same as Applicant	SHN Engineering & Geologists C/O Stein Coriell 1062 G Street Ste 1 Arcata, CA 95521

Environmental Review: Categorical Exemption per CEQA Section 15303(d).

Major Issues: None.

State Appeal Status: Project is appealable to the California Coastal Commission.

**CALFIRE TRINIDAD
COASTAL DEVELOPMENT PERMIT**

Case No. PLN-2019-15312

APNs 515-241-011, and California/Humboldt County Right-of-Way,

Recommended Zoning Administrator Action

1. Describe the application as part of the Consent Agenda.
2. Survey the audience for any person who would like to discuss the application.
3. If no one requests discussion, make the following motion to approve the applications as a part of the consent agenda:

Find the proposed project consistent with Section 15303(d) (Categorical Exemption) of the CEQA Guidelines, and make all of the required findings for approval of the Coastal Development Permit based on evidence in the staff report and any public testimony, and adopt the Resolution approving the CalFire Trinidad Coastal Development Permit subject to the recommended conditions.

Executive Summary: A Coastal Development Permit (CDP) application for extending potable water service to the CalFire Trinidad Station from the City of Trinidad by installation of a 1.5-inch diameter high density polyethylene water line beneath Patricks Point Drive (approximately 5,400 linear feet) and for connection to the existing 10,000-gallon tank at the facility (approximately 600 linear feet).

CalFire staffs the fire station year-round and responds to the City of Trinidad for all medical, traffic accident, structural and wildland fire dispatches at the same time the Trinidad Volunteer Fire Department is dispatched. Because the fire station is very close to the City of Trinidad, CalFire's engine is usually on-scene faster than the Volunteer response. The fire station currently uses nearby surface water from Martin Creek to supply water for drinking, equipment cleaning, irrigation, and fire suppression. CalFire has documented evidence that this water supply is unreliable and potentially unsafe. Therefore, the fire station is looking for an alternative potable water supply.

The proposed extension of City of Trinidad water service to the fire station was initiated as early as 2009, with a preliminary feasibility evaluation by then-Trinidad City Engineer Winzler & Kelly, and submitted to the Humboldt County Local Agency Formation Commission (LAFCo). Results found that the fire station's estimated peak demand of 800 gallons per day is less than 1% of the City of Trinidad's available capacity and that the City has available water supply and could provide the fire station with potable water. In May 2010, Humboldt LAFCo determined that a Cortese-Knox-Hertzberg Act, Section 56133 exemption was applicable for the water service extension, given that the service in question involves a public service provider. Therefore, the proposed service extension does not require further LAFCo approval.

California Coastal Commission staff indicated in a summary email on July 11, 2014, that any such extension of water service would be inconsistent with the current Local Coastal Programs (LPC) of both the City of Trinidad and Humboldt County. The project parcel is outside of (but directly adjacent to) the City of Trinidad's City service area. Therefore, amendments to the Trinidad General Plan and the County's Trinidad Area Plan first needed to be locally adopted and then certified by the Coastal Commission before Coastal Development Permits for the proposed project could be found to be consistent with the LCPs. This has been done and the California Coastal Commission has advised that they concurred with the modified LCP program on February 8, 2019.

CalFire is now applying for a Coastal Development Permit to extend the domestic water supply line from the City of Trinidad.

The CalFire fire station is located immediately north of the mapped water service area per the Trinidad Area Plan (TAP). The recently adopted LCP amendment modified the language of the TAP in Section 3.23B-1, Public Services Development Policies, pertaining to the extension of services. This policy provides a limited exception for provision of new rural public service systems when located outside of the Urban Limit Line or the area identified as the Westhaven Village area. Under the policy, water service shall only be permitted (1) within the service area, if sized so as not to exceed the maximum number of residential sites and other planned uses which can be developed under the adopted plan, and (2) to the CalFire Trinidad Fire Station located at 923 Patricks Point Drive if sized so as to not exceed provision of the minimum amount of water needed to serve the fire station for domestic use only. This project proposes to extend the water line under the exception provided in #2 above. The policy further requires that extension of water service to the CalFire Trinidad Fire Station be permitted only if the following terms are satisfied:

1. Is sized so as not to exceed provision of the minimum amount of water needed to serve the fire station for domestic use;
2. Will not remove capacity necessary to serve future development within the City of Trinidad;
3. Will not impair fire protection services in the City of Trinidad;
4. Is designed and conditioned in such a way that it will not service additional parcels or be growth inducing; and
5. Is found to be in conformance with the resource protection policies of the TAP.

The proposed water line extension is designed to serve only the fire station's domestic needs. The service line is a 1-1/2-inch diameter high density polyethylene water line. The existing non-potable water source (Martin Creek diversion) will continue to be used for truck washing and fire suppression water. The City of Trinidad conducted an analysis of its water system for their companion LCP amendment and determined that the domestic water demand from the fire station would not remove capacity necessary to serve future development within the City or impair its fire protection services. By restricting this extension to serve only the CalFire Trinidad Fire Station, the LCP amendment was limited to prevent growth inducement. Further, the project is conditioned to prevent additional service connections to the extended service line. The water line extension will be confined to existing state and county public road rights of way. Horizontal directional drilling will be used for the waterline construction to avoid impacting stream and riparian zones where crossings are needed. Additionally, no adjacent resource lands will be responsible for the cost of the line extension.

Based on the on-site inspection, a review of Planning Division reference sources, and a review of comments from all involved referral agencies, Planning staff believes that the applicant has submitted evidence in support of making all of the required findings for approving the Coastal Development Permit.

Alternatives: Three (3) alternatives may be considered: 1) The Zoning Administrator could elect not to hear this item and refer the application to the Planning Commission. Any decision to place this matter before the Planning Commission must be done before opening the public hearing on this project; 2) The Zoning Administrator could elect to add or delete conditions of approval or; 3) the Zoning Administrator could deny approval of the requested permits if unable to make all of the required findings. Planning Division staff is confident that the required findings can be made based on the submitted evidence and subject to the recommended conditions of approval. Consequently, planning staff does not recommend further consideration of these alternatives.

**RESOLUTION OF THE ZONING ADMINISTRATOR
OF THE COUNTY OF HUMBOLDT**

Resolution Number 19-

**Case Number PLN-2019-15312
Assessor's Parcel Numbers 515-241-011 and 000-000-000
(State/County Right Of Ways)**

Makes the required findings for certifying compliance with the California Environmental Quality Act and conditionally approves the Coastal Development Permit.

WHEREAS, CalFire Trinidad, submitted an application and evidence in support of approving a Coastal Development Permit for extension of a domestic water supply line from the City of Trinidad to the CalFire Trinidad Station; and

WHEREAS, the County Planning and Building Department has reviewed the submitted application and evidence and has referred the application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, pursuant to Section 15303(d), Humboldt County Planning and Building Department, makes a CEQA determination that the project is Categorically Exempt; and

WHEREAS, Attachment 2 in the Planning Division staff report includes evidence in support of making all of the required findings for approving the proposed Coastal Development Permit (Case No. PLN-2019-15312); and

WHEREAS, a public hearing was held on the matter before the Humboldt County Zoning Administrator on May 16, 2019.

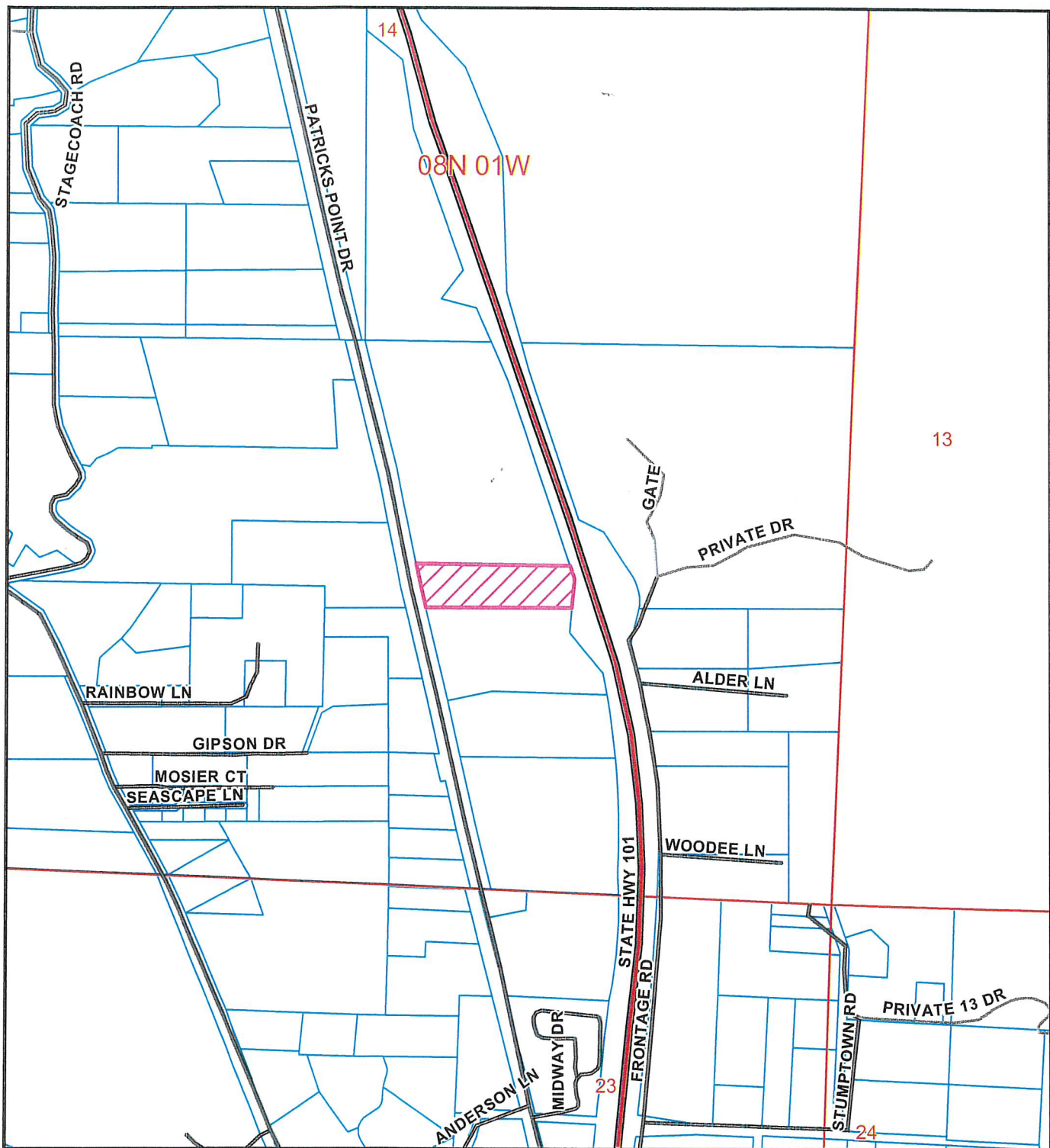
NOW, THEREFORE, be it resolved, determined, and ordered by the Zoning Administrator that:

1. The proposed project was determined pursuant to Section 15303(d) of the California Environmental Quality Act (CEQA) Guidelines to be Categorically Exempt; and
2. The findings in Attachment 2 of the Planning Division staff report support approval of Case Number PLN-2019-15312 based on the submitted evidence; and
3. Approves the Coastal Development Permit Case Number PLN-2019-15312 as recommended and conditioned in Attachment 1.

Adopted after review and consideration of all the evidence on May 16, 2019.

I, John Ford, Zoning Administrator of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above entitled matter by said Zoning Administrator at a meeting held on the date noted above.

John Ford,
Zoning Administrator
County of Humboldt



LOCATION MAP

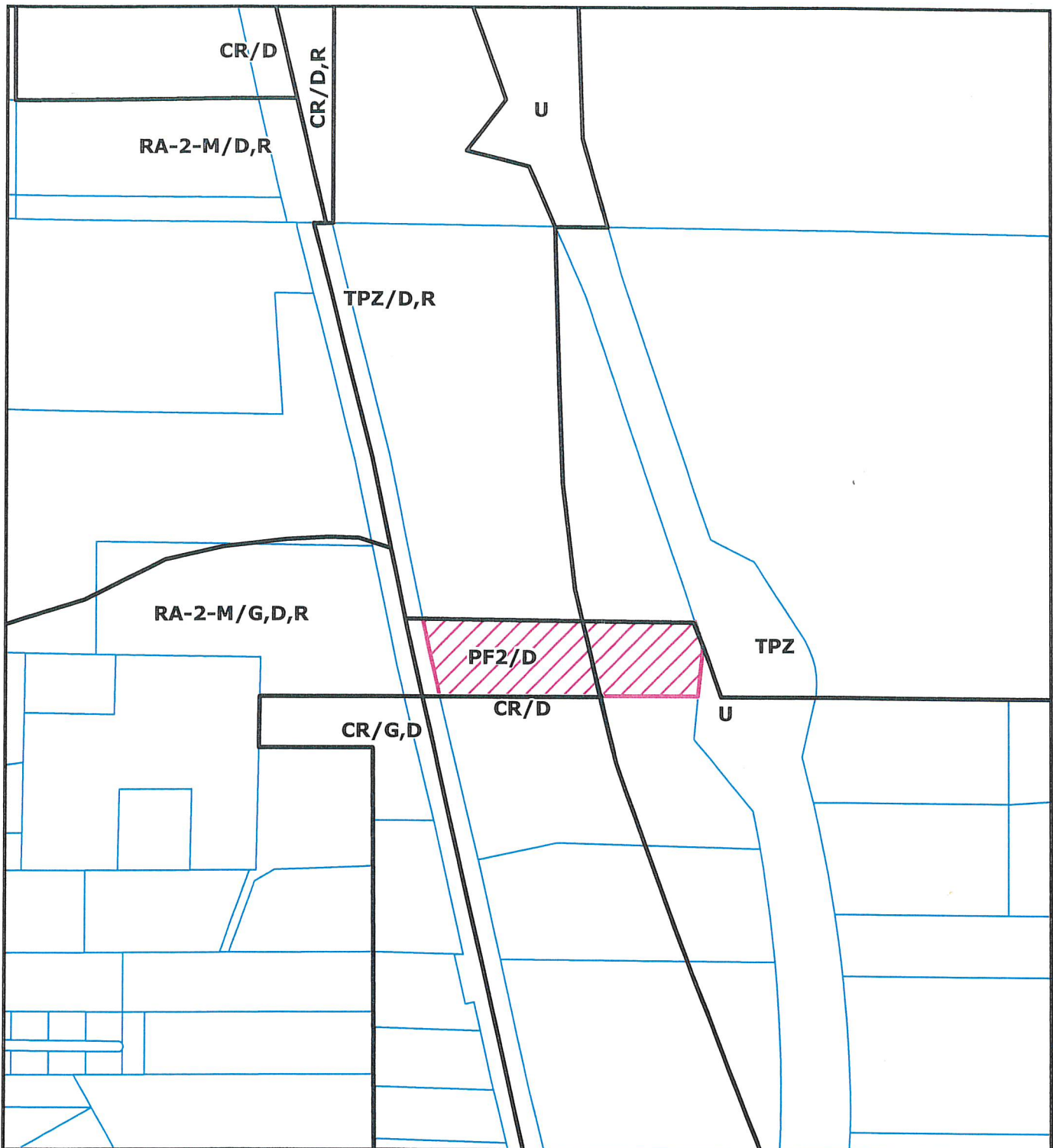
**PROPOSED CALFIRE TRINIDAD
COASTAL DEVELOPMENT PERMIT
TRINIDAD AREA
PLN-2019-15312
APN: 515-241-011
T08N R01W S14 HB&M (Trinidad)**

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 250 500 750
 Feet



ZONING MAP

**PROPOSED CALFIRE TRINIDAD
COASTAL DEVELOPMENT PERMIT
TRINIDAD AREA
PLN-2019-15312
APN: 515-241-011
T08N R01W S14 HB&M (Trinidad)**

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 250 500 Feet





AERIAL MAP

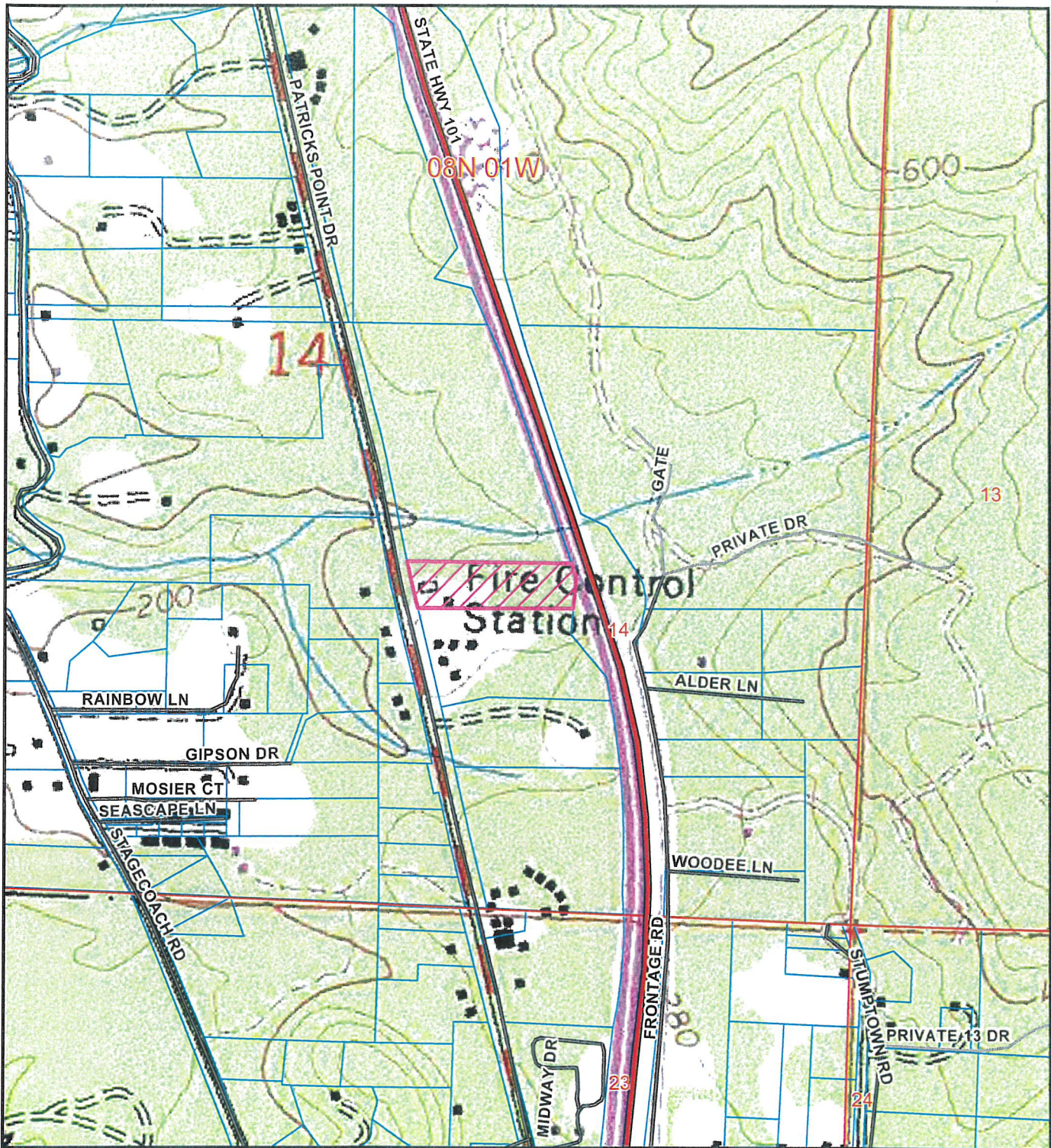
Project Area = 

**PROPOSED CALFIRE TRINIDAD
COASTAL DEVELOPMENT PERMIT
TRINIDAD AREA
PLN-2019-15312
APN: 515-241-011
T08N R01W S14 HB&M (Trinidad)**

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0 250
Feet



TOPO MAP

PROPOSED CALFIRE TRINIDAD COASTAL DEVELOPMENT PERMIT

TRINIDAD AREA

PLN-2019-15312

APN: 515-241-011

T08N R01W S14 HB&M (Trinidad)

Project Area = 

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



0 250 500 750
Feet

CAL FIRE

TRINIDAD FIRE STATION

WATER SYSTEM UPGRADES

TRINIDAD, CALIFORNIA



PREPARED BY:
SHN
MARCH 2018

APPROVALS

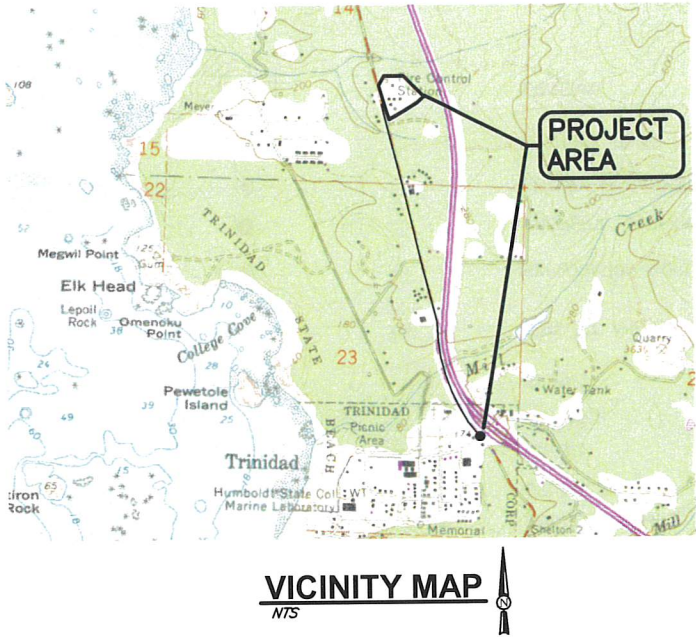
BOB BRONKALL
DEPUTY DIRECTOR
COUNTY OF HUMBOLDT-DEPARTMENT OF PUBLIC WORKS
DATE

JOSH WOLF
GHD
CITY OF TRINIDAD-CITY ENGINEER
DATE

JARED S. O'BARR
SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
PROJECT ENGINEER
DATE

INDEX OF SHEETS

SEQ	SHEET	TITLE
1	G-1	COVER
2	G-2	STANDARD ABBREVIATIONS AND LEGENDS
3	G-3	NOTES AND SPECIFICATIONS
4	C-1	OVERALL SITE PLAN
5	C-2	PLAN AND PROFILE
6	C-3	PLAN AND PROFILE
7	C-4	PLAN AND PROFILE
8	C-5	PLAN AND PROFILE
9	C-6	PLAN AND PROFILE
10	C-7	ENLARGED SITE PLAN
11	C-8	DETAILS
12	C-9	DETAILS



VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			
CONSULTING ENGINEERS & GEOLOGISTS, INC. WWW.SHN-ENGR.COM 812 W. WABASH AVE. EUREKA, CA. 95501			
PROJECT LOCATION		PROJECT AREA	
DSGN	JSO	DR	CDN
CHK	KIN	APVD	
NO.		DATE	REVISION
NO.		DATE	REVISION
CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA			
COVER			
SHEET G-1			
SEQ 1			
DATE 03/2018			
PROJ. NO. 015070			

ABBREVIATIONS

A	— ABANDON	G	— GAS
ABN	— ACRYLONITRILE-BUTADIENE-STYRENE	GA	— GAGE
AB	— ANCHOR BOLT, AGGREGATE BASE	GALV	— GALVANIZED
AC	— ASPHALTIC CONCRETE	GIP	— GALVANIZED IRON PIPE
ACP	— ASBESTOS CEMENT PIPE	GM	— GAS METER
ACI	— AMERICAN CONCRETE INSTITUTE	GPD	— GALLONS PER DAY
ADJ	— ADJUSTABLE	GPH	— GALLONS PER HOUR
AGGR	— AGGREGATE	GPM	— GALLONS PER MINUTE
AISC	— AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GRD	— GRADE OR GROUND
AL	— ALUMINUM	GSP	— GALVANIZED STEEL PIPE
ALT	— ALTERNATE	GV	— GATE VALVE
AP	— ANGLE POINT	GYP	— GYPSUM
APPROX	— APPROXIMATELY	H	— HOSE BIBB
ARCH	— ARCHITECTURAL	HDPE	— HIGH DENSITY POLYETHYLENE
ASTM	— AMERICAN SOCIETY FOR TESTING & MATERIALS	HDR	— HEADER
AUTO	— AUTOMATIC	HDW	— HARDWARE
AUX	— AUXILIARY	HMA	— HOT MIX ASPHALT
●	— AT	HOR	— HORIZONTAL
B	— BEGIN CURVE	HP	— HORSEPOWER, HIGH POINT
BCR	— BEGIN CURB RETURN	HR	— HOUR
BD	— BOARD	HT	— HEIGHT
BF	— BUTTERFLY VALVE	HW	— HOT WATER
BK	— BOOK OR BACK	HWR	— HOT WATER RETURN
BLDG	— BUILDING	HWS	— HOT WATER SUPPLY
BM	— BENCH MARK, BEAM	I	— INSIDE DIAMETER
BMP	— BEST MANAGEMENT PRACTICE	ID	— INCH
BO	— BLOW OFF	INFL	— INFILTRANT
BOT	— BOTTOM	INSUL	— INSULATE OR INSULATION
BRG	— BEARING	INT	— INTERIOR
BTWN	— BETWEEN	INV	— INVERT
BV	— BALL VALVE	IPS	— IRON PIPE SIZE
BVC	— BEGINNING OF VERTICAL CURVE	J	— JOINT
BW	— BACK OF WALK	JP	— JOINT POLE
BWV	— BACKWATER VALVE	K	— THOUSAND POUNDS
C	— CHANNEL (STRUCTURAL SHAPE)	KIP	— KILOWATT
CARV	— COMBINATION AIR AND VACUUM RELEASE VALVE	L	— LATERAL (STRUCTURAL SHAPE)
CATV	— CABLE TELEVISION	LAT	— LATERAL
CB	— CATCH BASIN	LB	— POUND
CEIL	— CEILING	LF	— LINEAR FEET
CFM	— CUBIC FEET PER MINUTE	LH	— LEFT HAND
CFS	— CUBIC FEET PER SECOND	LONG	— LONGITUDINAL
CHEM	— CHEMICAL	LP	— LOW POINT
CI	— CAST IRON	LPG	— LIQUIFIED PETROLEUM GAS
CIP	— CAST IRON PIPE	LRP	— LEGALLY RESPONSIBLE PARTY
C.I.P.	— CAST IN PLACE	LR	— LONG RADIUS
CJ	— CONSTRUCTION JOINT	LT	— LEFT
CLR	— CLEAR	LVC	— LENGTH OF VERTICAL CURVE
CMP	— CORRUGATED METAL PIPE	M	— MATERIAL
CMU	— CONCRETE MASONRY UNIT	MATL	— MAXIMUM
CTSK	— COUNTERSINK	MAX	— MECHANICAL
COL	— COLUMN	MECH	— MEGA-FLANGE PIPE JOINT
CONC	— CONCRETE	MF	— MANUFACTURER
CONT	— CONTINUOUS OR CONTINUED	MFR	— MILLION GALLONS PER DAY
COORD	— COORDINATE	MGD	— MANHOLE
CPLG	— COUPLING	MH	— MINIMUM OR MINUTE
CRS	— COLD ROLLED STEEL	MIN	— MALE IRON PIPE
CTR	— CENTER	MIP	— MISCELLANEOUS
CTS	— COPPER TUBE SIZE	MISC	— MECHANICAL JOINT
CU	— CUBIC	MJ	— MALE NATIONAL PIPE THREAD
CU FT	— CUBIC FEET	MMPT	— METAL
CV	— CHECK VALVE	MTL	— MAXIMUM WATER SURFACE
CW	— COLD WATER	MWS	
CY	— CUBIC YARD	N	— NEW
D	— DEGREE (ANGLE)	(N)	— NORTHING OR NORTH
d	— PENNY (NAIL SIZE)	NC	— NORMALLY CLOSED
D	— DRAIN	NIC	— NOT IN CONTRACT
DB	— DISTRIBUTION BOX	NF	— NON-FREEZE
DBL	— DOUBLE	NO	— NUMBER OR NORMALLY OPEN
DF	— DOUGLAS FIR	NOM	— NOMINAL
DI	— DROP INLET OR DUCTILE IRON	NP	— NEW PAVEMENT
DIA	— DIAMETER	NPT	— NATIONAL PIPE THREAD
DIAG	— DIAGONAL	NTS	— NOT TO SCALE
DIM	— DIMENSION	#	— NUMBER
DIMJ	— DUCTILE IRON MECHANICAL JOINT	O	— ON CENTER
DIP	— DUCTILE IRON PIPE	OC	— OUTSIDE DIAMETER
DET	— DETAIL	OD	— ORIGINAL GROUND
DWG	— DRAWING	OG	— OVERFLOW
DW	— DRIVEWAY	OVFL	— OUNCE
E	— EXISTING	OH	— OVERHEAD
(E)	— EASTING OR EAST	P	— POINT OF CURVE
EA	— EACH	PC	— PORTLAND CEMENT CONCRETE
EC	— END CURVE	PCC	— POUNDS PER CUBIC FOOT
ECR	— END CURB RETURN	PE	— PLAIN END
EF	— EACH FACE	PERF	— PERFORATED
EFL	— EFFLUENT	PEP	— POLYETHYLENE PIPE
EG	— EXISTING GRADE/GROUND	PI	— POINT OF INTERSECTION
ELEV	— ELEVATION	PL	— PLATE
ENGR	— ENGINEER	R	— PROPERTY LINE
EP	— EDGE OF PAVING	PLCS	— PLACES
EQ	— EQUAL	PLYWD	— PLYWOOD
EQUIP	— EQUIPMENT	PMP	— PERFORATED METAL PIPE
ER	— EDGE OF ROAD	POT	— POINT ON CURVE
EVC	— END OF VERTICAL CURVE	POT	— POINT OF TANGENT
EW	— EACH WAY	PP	— POWER POLE
EWEF	— EACH WAY, EACH FACE	PRC	— POINT OF REVERSE CURVE
EXC	— EXCAVATE	PREFAB	— PREFABRICATED
EXP	— EXPOSED OR EXPANSION	PRELIM	— PRELIMINARY
EXPJT	— EXPANSION JOINT	PRESS	— PRESSURE
EXT	— EXISTING	PROP	— PROPERTY
EXT	— EXTERIOR	PSF	— POUNDS PER SQUARE FOOT
F	— FLANGE	PSI	— POUNDS PER SQUARE INCH
FC	— FLEXIBLE COUPLING	PSIG	— POUNDS PER SQUARE INCH, GAUGE
FCA	— FLANGED COUPLING ADAPTER	PT	— POINT OF TANGENCY, POINT
FD	— FLOOR DRAIN	PUE	— PUBLIC UTILITY EASEMENT
FDC	— FIRE DEPARTMENT CONNECTION	PV	— PLUG VALVE
FDN	— FOUNDATION	PVC	— POLYVINYL CHLORIDE PLASTIC
FF	— FINISH FLOOR	PVI	— POINT OF VERTICAL INTERSECTION
FG	— FINISHED GRADE	PVMT	— PAVEMENT
FI	— FIRE HYDRANT	Q	— QUANTITY
FIG	— FIGURE	QTY	
FIN	— FINISH		
FIP	— FEMALE IRON PIPE		
FL	— FLOW LINE		
FLG	— FLANGE		
FLR	— FLOOR		
FLTR	— FILTER		
FO	— FIBER OPTIC		
FOD	— FACE OF CONCRETE		
FT	— FOOT OR FEET		
FT ²	— SQUARE FEET		
FT ³	— CUBIC FEET		
FTG	— FOOTING		
FUT	— FUTURE		

CURVE DATA

R (RADIUS)
L (LENGTH)
Δ (DELTA)
T (TANGENT)

UTILITIES LEGEND

PROPOSED EXISTING

⊗	GATE VALVE	⊗	EXISTING GATE VALVE
⊕	PLUG VALVE	⊕	EXISTING PLUG VALVE
⊙	BALL VALVE	⊙	EXISTING BALL VALVE
⊕	BUTTERFLY VALVE	⊕	EXISTING BUTTERFLY VALVE
⊕	AUTOMATICALLY OPERATED VALVE (P= PNEUMATIC, E= ELECTRIC, S= SOLENOID, H= HYDRAULIC, D= DIAPHRAGM ACTUATOR)	⊕	EXISTING AUTOMATICALLY OPERATED VALVE
⊕	3-WAY VALVE	⊕	EXISTING 3-WAY VALVE
⊕	GLOBE VALVE	⊕	EXISTING GLOBE VALVE
⊕	ANGLE VALVE	⊕	EXISTING ANGLE VALVE
⊕	PRESSURE REGULATING VALVE	⊕	EXISTING PRESSURE REGULATING VALVE
⊕	PRESSURE RELIEF VALVE	⊕	EXISTING PRESSURE RELIEF VALVE
⊕	CHECK VALVE	⊕	EXISTING CHECK VALVE
⊕	AIR OR VACUUM RELEASE VALVE	⊕	EXISTING AIR OR VACUUM RELEASE VALVE
⊕	AIR AND VACUUM VALVE	⊕	EXISTING AIR AND VACUUM VALVE
⊕	COMBINATION AIR VALVE	⊕	EXISTING COMBINATION AIR VALVE
⊕	FLOW METER	⊕	EXISTING FLOW METER
⊕	HOSE BIBB (NF= NON-FREEZE)	⊕	EXISTING HOSE BIBB
⊕	REDUCER	⊕	EXISTING REDUCER
⊕	FIRE HYDRANT	⊕	EXISTING FIRE HYDRANT
⊕	DROP INLET	⊕	EXISTING DROP INLET
⊕	MANHOLE	⊕	EXISTING MANHOLE
⊕	SEWER CLEAN OUT OR SEWER LATERAL	⊕	EXISTING SEWER CLEAN OUT OR SEWER LATERAL
⊕	UNDERGROUND ELECTRICAL	⊕	EXISTING UNDERGROUND ELECTRICAL
⊕	OVERHEAD ELECTRICAL	⊕	EXISTING OVERHEAD ELECTRICAL
⊕	FIBER OPTIC LINE	⊕	EXISTING FIBER OPTIC LINE
⊕	CABLE TELEVISION	⊕	EXISTING CABLE TELEVISION
⊕	JOINT UTILITIES	⊕	EXISTING JOINT UTILITIES
⊕	UNDERGROUND TELEMETRY LINE	⊕	EXISTING UNDERGROUND TELEMETRY LINE
⊕	OVERHEAD TELEMETRY LINE	⊕	EXISTING OVERHEAD TELEMETRY LINE
⊕	UNDERGROUND TELEPHONE LINE	⊕	EXISTING UNDERGROUND TELEPHONE LINE
⊕	OVERHEAD TELEPHONE LINE	⊕	EXISTING OVERHEAD TELEPHONE LINE
⊕	FIRE WATER LINE	⊕	EXISTING FIRE WATER LINE
⊕	STEAM LINE	⊕	EXISTING STEAM LINE
⊕	WATER LINE	⊕	EXISTING WATER LINE
⊕	SANITARY SEWER LINE	⊕	EXISTING SANITARY SEWER LINE
⊕	STORM DRAIN LINE	⊕	EXISTING STORM DRAIN LINE
⊕	GAS LINE	⊕	EXISTING GAS LINE
⊕	FORCE MAIN AND DIRECTION OF FLOW	⊕	EXISTING FORCE MAIN AND DIRECTION OF FLOW
⊕	CULVERT	⊕	EXISTING CULVERT
⊕	POLE MOUNTED ROADWAY LUMINAIRE	⊕	EXISTING POLE MOUNTED ROADWAY LUMINAIRE
⊕	ITEM TO BE REMOVED	⊕	EXISTING ITEM TO BE REMOVED
⊕	ITEM TO BE ABANDONED IN PLACE	⊕	EXISTING ITEM TO BE ABANDONED IN PLACE
⊕	WATER SERVICE- WM-1= SINGLE WM-2= DUAL	⊕	EXISTING WATER SERVICE
⊕	PULL BOX AND DESIGNATION	⊕	EXISTING PULL BOX AND DESIGNATION
⊕	SIGN AND DESIGNATION	⊕	EXISTING SIGN AND DESIGNATION

NOTES

- CONTACT THE ENGINEER FOR SYMBOLS NOT LISTED.
- THIS IS A STANDARD SHEET, THEREFORE, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET WHICH DO NOT APPEAR ON THE PLANS.
- 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.

TOPOGRAPHIC LEGEND

PROPOSED EXISTING

⊕	NOT USED	⊕	NOT USED	P.I. (POINT OF INTERSECTION)
⊕	NOT USED	⊕	NOT USED	TEMPORARY BENCH MARK
⊕	NOT USED	⊕	NOT USED	FINISH GRADE ELEVATION
⊕	NOT USED	⊕	NOT USED	ELEVATION OF ORIGINAL GROUND
⊕	NOT USED	⊕	NOT USED	RADIAL POINT
⊕	NOT USED	⊕	NOT USED	FLOW LINE AND DIRECTION
⊕	NOT USED	⊕	NOT USED	TOP OF CUT
⊕	NOT USED	⊕	NOT USED	TOP OF FILL
⊕	NOT USED	⊕	NOT USED	TOE OF CUT OR FILL
⊕	NOT USED	⊕	NOT USED	CONTOUR LINE
⊕	NOT USED	⊕	NOT USED	CONCRETE (IN PLAN)
⊕	NOT USED	⊕	NOT USED	CONCRETE (IN SECTION)
⊕	NOT USED	⊕	NOT USED	PAVEMENT
⊕	NOT USED	⊕	NOT USED	ROCKS
⊕	NOT USED	⊕	NOT USED	STUMPS
⊕	NOT USED	⊕	NOT USED	TREES
⊕	NOT USED	⊕	NOT USED	ROADS
⊕	NOT USED	⊕	NOT USED	UTILITY POLE (PP=POWER POLE, TP= TEL POLE, JP=JOINT POLE)
⊕	NOT USED	⊕	NOT USED	GUY WIRE
⊕	NOT USED	⊕	NOT USED	FENCE
⊕	NOT USED	⊕	NOT USED	BOUNDARY LIMITS, W/DESIGNATION
⊕	NOT USED	⊕	NOT USED	CENTERLINE
⊕	NOT USED	⊕	NOT USED	MARSH
⊕	NOT USED	⊕	NOT USED	WETLAND
⊕	NOT USED	⊕	NOT USED	SPRING
⊕	NOT USED	⊕	NOT USED	TEST PIT AND DESIGNATION
⊕	NOT USED	⊕	NOT USED	EXPLORATION BORE HOLE
⊕	NOT USED	⊕	NOT USED	PROPERTY CORNER
⊕	NOT USED	⊕	NOT USED	SURVEY MONUMENT
⊕	NOT USED	⊕	NOT USED	CONTROL POINT
⊕	NOT USED	⊕	NOT USED	DRIVEWAY

DETAIL AND SECTION DESIGNATION

SECTION (LETTER)
OR DETAIL (NUMERAL)
DESIGNATION

INDICATES SECTION OR
DETAIL TAKEN AND SHOWN
ON SAME SHEET

ON DRAWING WHERE SECTION
OR DETAIL IS TAKEN:

SHEET NUMBER WHERE SHOWN

ON DRAWING WHERE SECTION
OR DETAIL IS SHOWN:

SHEET NUMBER WHERE TAKEN

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



VERIFY SCALES			
BAR IS ONE INCH ON ORIGINAL DRAWING			
1" = 1'			
CONSULTING ENGINEERS & GEOLOGISTS, INC.			
WWW.SHIN-ENGR.COM			
812 W. WABASH AVE.			
EUREKA, CA 95501			
BY			
REVISION			
DATE			
NO.			
DESIGN	JSD	CDN	KJN
CHK	APVD		
CAL FIRE			
TRINIDAD FIRE STATION WATER SYSTEM UPGRADES			
TRINIDAD, CALIFORNIA			
STANDARD ABBREVIATIONS AND LEGENDS			
SHEET			
G-2			
SEQ 2			
DATE 03/2018			
PROJ. NO. 015070			

GENERAL NOTES:

1. ALL WORK BASED ON THESE PLANS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE FOLLOWING:
- a. CITY OF TRINIDAD STANDARD PLANS AND SPECIFICATIONS
 - b. HUMBOLDT COUNTY STANDARD PLANS AND SPECIFICATIONS
 - c. THE CONTRACT PLANS AND SPECIFICATION
- IN THE ABSENCE OF PLAN AND SPECIFICATION DEFINITION, THE MORE STRINGENT SHALL GOVERN IN CASE OF CONFLICT
2. AS USED IN THESE DRAWINGS
- OWNER: CAL FIRE
ENGINEER: SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
OWNER'S REPRESENTATIVE: MICHAEL DUGGAN
CONTRACTOR: FIRM CHOSEN TO PERFORM THE WORK
3. THE CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN FOR ALL WORK AREAS AND SHALL SUBMIT THE PLAN TO THE CITY AND COUNTY FOR DISCUSSION AND APPROVAL AT THE PRECONSTRUCTION MEETING. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH ALL REQUIRED PERMITS AND OTHER GUIDELINES LISTED ON THESE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL CLEARLY SHOW ON THE TRAFFIC CONTROL PLAN HOW THE CONTRACTOR INTENDS TO POSITION ALL SIGNS AND OTHER REQUIRED TRAFFIC CONTROL DEVICES THROUGHOUT THE WORK AREA DURING ALL PHASES OF CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE REQUIREMENTS OF THE CALTRANS MUTCD PART 6 "TEMPORARY TRAFFIC CONTROL"
4. IF THE CONTRACTOR WISHES TO USE WATER FROM THE CITY OF TRINIDAD WATER DISTRIBUTION SYSTEM DURING THE COURSE OF THIS PROJECT, THE CONTRACTOR SHALL OBTAIN AND ATTACH A DOUBLE CHECK VALVE AT THE POINT WHERE THE CONTRACTOR CONNECTS TO THE CITY WATER SYSTEM (I.E. AT A HYDRANT, WATER SERVICE, BLOW-OFF, ETC.). THE DOUBLE CHECK VALVE SHALL BE TESTED AND CERTIFIED BY EITHER A CERTIFIED TESTER OR THE CITY OF TRINIDAD PUBLIC WORKS DEPARTMENT AND APPROVED BY THE ENGINEER PRIOR TO USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF THE DOUBLE CHECK VALVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE CITY FOR OBTAINING AND PURCHASING THE WATER.
5. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DISPOSAL SITES AND SHALL PAY ANY AND ALL COSTS INVOLVED. WHEN ANY MATERIAL IS TO BE DISPOSED OF OUTSIDE THE PROJECT WORK AREA, THE CONTRACTOR SHALL OBTAIN BOTH A WRITTEN AGREEMENT BETWEEN THE PROPERTY OWNER AND THE CONTRACTOR AND A COPY OF THE PERMIT THAT ALLOWS MATERIAL DISPOSAL AT THE SUBJECT SITE. THE AGREEMENT SHALL GRANT THE CONTRACTOR PERMISSION TO USE THE PRIVATE PROPERTY AS A DISPOSAL SITE AND SHALL ABSOLVE THE CITY AND/OR COUNTY OF ALL RESPONSIBILITY FOR CONSEQUENCES OF SUCH USAGE. THE PERMIT COPY SHALL BE OBTAINED FROM THE PROPERTY OWNER, THE HUMBOLDT COUNTY BUILDING DEPARTMENT, THE CITY OF TRINIDAD BUILDING DEPARTMENT, OR OTHER REGULATORY AGENCY AS APPROPRIATE. BOTH THE AGREEMENT AND PERMIT SHALL BE FILED WITH THE ENGINEER PRIOR TO THE USE OF THE PROPERTY, AND THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE ENGINEER TO DISPOSE OF THE MATERIAL AT THE PROPOSED LOCATION DESIGNATED IN THE AGREEMENT AND ON THE PERMIT BEFORE ANY MATERIAL IS DISPOSED OF ON SAID PROPERTY.
6. DISPOSAL OF NON-FRIABLE ASBESTOS-CONTAINING MATERIALS SHALL BE IN AN APPROVED LANDFILL IN ACCORDANCE WITH LOCAL, COUNTY, AND STATE GUIDELINES.
7. THE CONTRACTOR SHALL NOT COMMENCE WORK AT A SPECIFIC SITE UNLESS THE OWNER HAS BEEN PROVIDED 48-HOUR MINIMUM NOTICE, AND HAS APPROVED INITIATION OF THE WORK. IF WORK AT THAT SITE HAS BEEN DISCONTINUED, IT SHALL NOT BE RESUMED UNTIL THE OWNER HAS AGAIN GIVEN APPROVAL.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE EXISTENCE, LOCATION, AND DEPTH OF UTILITIES IN ALL CONSTRUCTION ZONES. EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. NEITHER THE OWNER NOR THE ENGINEER MAKES A CLAIM AS TO THE ACCURACY AND COMPLETENESS OF THE UTILITIES SHOWN. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONFLICTS DISCOVERED IN THE FIELD. IN THE CASE OF CONNECTION TO EXISTING FACILITIES:
- a. EXPOSE THE EXISTING FACILITY.
 - b. VERIFY LOCATION, SIZE, AND ELEVATION.
 - c. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - d. INCORPORATE CORRECTIONS INTO CONTRACT RECORD DRAWINGS.
9. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMATIC. THEY DO NOT SHOW OR DESCRIBE EVERY OFFSET, DIMENSION, SECTION, OR COMPONENT REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL CHECK EXISTING IN-FIELD CONDITIONS AT ALL WORK LOCATIONS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR ADDITIONAL DETAILS OR CLARIFICATION.
10. ALL MATERIALS INCORPORATED INTO THE WORK, THE METHOD OF INSTALLATION, AND CONSTRUCTION TECHNIQUES SHALL BE APPROVED BY THE OWNER. TESTING PROCEDURES SHALL CONFORM TO THE CONTRACT DOCUMENTS AND THE OWNER'S SPECIFICATIONS. THE OWNER MAY REQUIRE ADDITIONAL TESTS TO BE PERFORMED AT THE EXPENSE OF THE OWNER ON CERTAIN MATERIALS OR SPECIFIC ITEMS OF WORK. IF THE ITEM OR MATERIAL DOES NOT MEET THE REQUIRED CRITERIA, THE CONTRACTOR WILL BECOME RESPONSIBLE FOR THE EXPENSE OF THE TEST, REPLACEMENT OR REPAIR OF THE NON-CONFORMING ITEM OF WORK, AND SUBSEQUENT RE-TESTING.
11. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE EXECUTION OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF THE WORK ON THIS PROJECT (EXCLUDING LIABILITY ARISING FROM THE NEGLIGENCE OF THE OWNER OR ENGINEER.)
12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY AND THE SCHEDULING OF ALL WORK PERFORMED BY HIS SUBCONTRACTORS, WITHOUT EXCEPTION.
13. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THE FAILURE TO DO SO. ALL CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE NORTH COAST UNIFIED AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.
14. THE CONTRACTOR SHALL MAINTAIN ALL STREETS AND SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAY IN CLEAN, SAFE, AND USABLE CONDITION THROUGHOUT THE EXECUTION OF THE WORK. ALL SPILLS OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC. SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY. ALL ADJACENT PROPERTY, PUBLIC OR PRIVATE, SHALL ALSO BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO THE WORK SITE, AND SAFE PASSAGE OF PUBLIC TRAFFIC THROUGH THE WORK ZONE DURING THE CONSTRUCTION PERIOD.
15. THE CONTRACTOR SHALL EMPLOY STANDARD BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION CONTROL, INCLUDING BUT NOT LIMITED TO, IMPLEMENTING CONSTRUCTION DURING THE DRY SEASON, REMOVAL OF THE MINIMUM AMOUNT OF VEGETATION NECESSARY TO ACCOMPLISH THE WORK, PLACEMENT OF STRAW BALES OR COIR ROLLS DOWNSTREAM DURING CONSTRUCTION.
16. BACKFILLING OF PROJECT COMPONENTS SHALL NOT PROCEED UNTIL THE OWNER'S REPRESENTATIVE HAS OBSERVED AND ACCEPTED THE INSTALLATION. COMPACTION OF BACKFILL SHALL PROCEED ACCORDING TO THE REQUIREMENTS PROVIDED ON THESE PLANS. PAVING SHALL NOT COMMENCE UNTIL COMPACTION TESTING AND ALL UNDERGROUND WORK IS COMPLETE.
17. AT LEAST 48-HOURS ADVANCE NOTICE SHALL BE PROVIDED TO THE OWNER WHEN REQUESTING OBSERVATION OR TESTING OF INSTALLED PROJECT COMPONENTS. THE OWNER'S REPRESENTATIVE MUST BE PRESENT WHEN ASPHALT CONCRETE PAVING OR PORTLAND CEMENT CONCRETE IS BEING PLACED.
18. THE OUTSIDE EDGES OF CONCRETE COLLARS ASSOCIATED WITH ALL MANHOLE FRAMES/LIDS, UTILITY BOXES, AND SURVEY MONUMENTS THAT ARE LOCATED WITHIN THE LIMITS OF PAVING SHALL BE FLUSH WITH THE FINISH PAVING GRADE.
19. ALL PUBLIC PEDESTRIAN FACILITIES, INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, DRIVEWAYS, AND CURB RAMPS SHALL BE ADA COMPLIANT.
20. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS OR CHANGES FROM THESE PLANS, UNLESS SPECIFICALLY APPROVED BY THE ENGINEER IN WRITING.
21. 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 811 FOR LOCATES.
22. PRIOR TO ENTERING SERVICE, THE ENTIRE WATER SERVICE PIPE MUST BE DISINFECTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA C651.

GENERAL NOTES CONTINUED:

23. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW THE MANUFACTURER'S PRODUCT INFORMATION CUT SHEETS INDICATING DIMENSIONS FOR ALL MANUFACTURED AND PRECAST ITEMS PROPOSED FOR USE.
24. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS.
25. BASE MAPPING FROM CAL FIRE.

GENERAL ORDER OF WORK:

1. THE CONTRACTOR SHALL SUBMIT A PROPOSED INTERIM CONSTRUCTION SCHEDULE TO THE ENGINEER WITHIN 5 DAYS AFTER EXECUTION OF THE CONTRACT SHOWING THE ORDER HE INTENDS TO CONSTRUCT ALL PORTIONS OF THIS PROJECT. THE ENGINEER SHALL PROVIDE EITHER APPROVAL OF THE CONTRACTOR'S SCHEDULE OR A LIST OF PROPOSED CHANGES TO THE SCHEDULE PRIOR TO CONSTRUCTION, AND THE CONTRACTOR SHALL ABIDE BY THAT APPROVED SCHEDULE THROUGHOUT THE COURSE OF THE PROJECT UNLESS OTHERWISE AGREED TO BY THE ENGINEER.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THOROUGHLY EXAMINE THE JOB SITES, THE CONTRACT SPECIFICATIONS, AND THESE PLANS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL PAYMENT SHALL BE MADE BY THE OWNER FOR ANY EXPENSE THE CONTRACTOR MAY INCUR AS A RESULT OF HIS FAILURE TO ADEQUATELY ACQUAINT HIMSELF WITH THE EXTENT OF THE WORK TO BE DONE, THE GENERAL SITE CONDITIONS, OR THE REQUIREMENTS OF THE PLANS, CONTRACT DOCUMENTS, GENERAL PROVISIONS, SPECIAL PROVISIONS, AND REFERENCED SPECIFICATIONS (AWWA, CALTRANS, OSHA, ETC).
3. PRIOR TO ANY PAYMENTS BEING MADE CONTRACTOR SHALL SUBMIT TO ENGINEER A COMPLETE SCHEDULE OF VALUES FOR ALL LUMP SUM BID ITEMS. NO PAYMENTS SHALL BE MADE UNTIL ENGINEER HAS APPROVED THE SCHEDULE OF VALUES.

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707-441-8855
812 W. WABASH AVE.
EUREKA, CA. 95501

SHN

BY
REVISION
DATE
NO.

DSGN
JSD
DR
CDN
CHK
KJN
APVD

CAL FIRE
TRINIDAD
FIRE STATION WATER SYSTEM UPGRADES
TRINIDAD, CALIFORNIA

NOTES AND SPECIFICATIONS

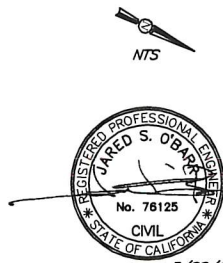
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03/2018

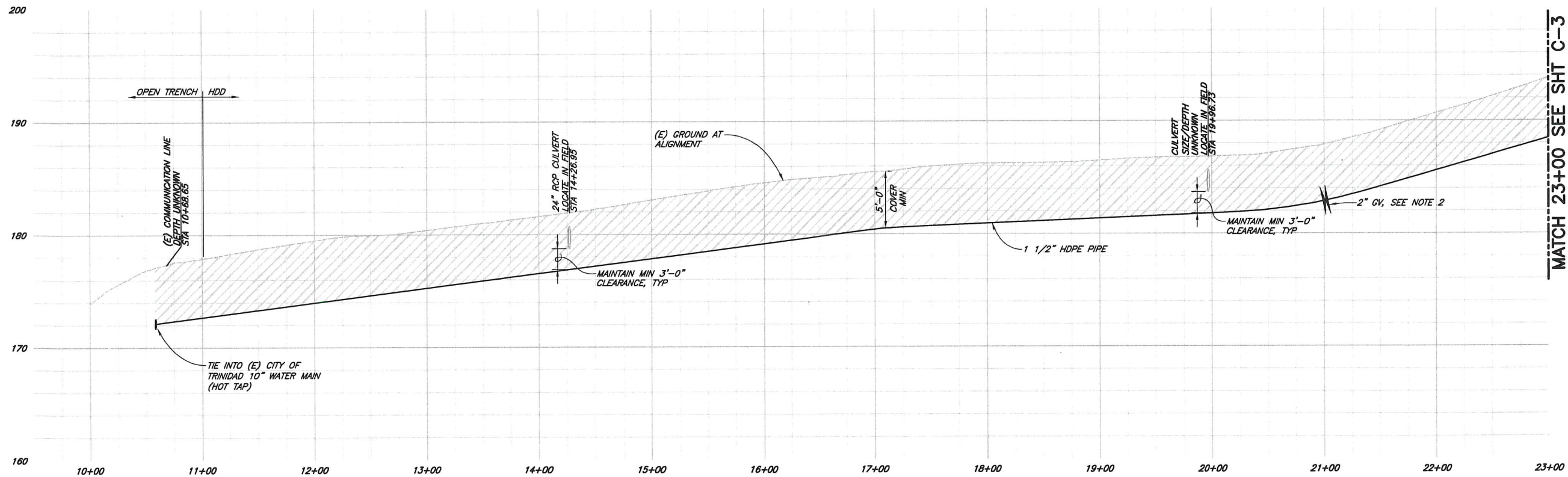
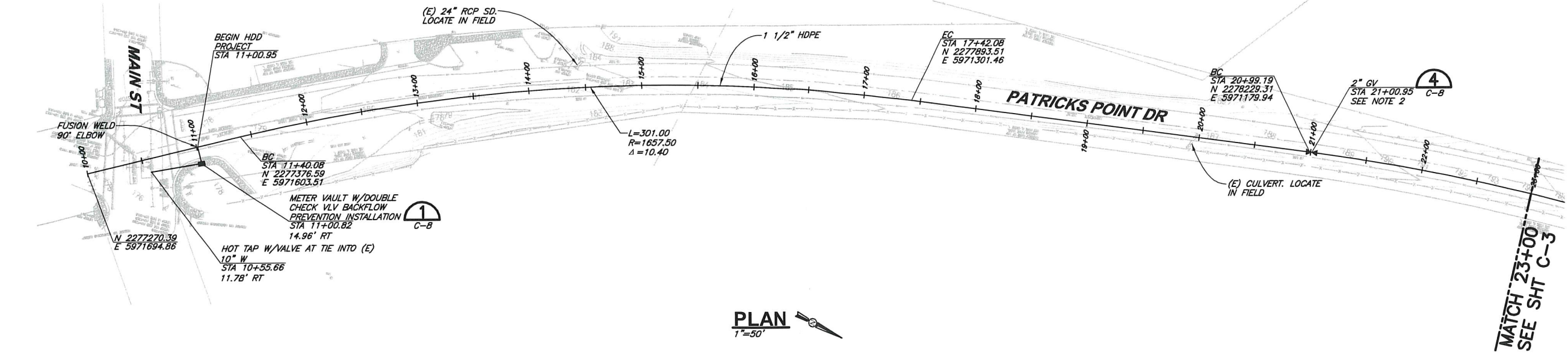
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DR	JSO	CDN	KJN				
CHK							
APVD							
CAL FIRE CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA							
OVERALL SITE PLAN							
SHEET C-1							
SEO 4							
DATE 03/2018							
PROJ. NO. 015070							
3/28/18							
CONSULTING ENGINEERS & GEOLOGISTS, INC. WWW.SHIN-ENGR.COM 812 W. WABASH AVE. EUREKA, CA. 95501 707-441-8855							
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PROFILE
SCALE: 1"=50' H
1"=5' V

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING LENGTH OF RUN AND LOCATIONS OF ENTRY/EXIT PITS BASED ON MATERIALS, EQUIPMENT USED FOR THE INSTALLATION, PROXIMITY TO UNDERGROUND UTILITIES, AND PROXIMITY TO EXISTING SURFACE FEATURES SUCH AS DRIVEWAYS, SIGNS, AND VEGETATION.
2. GATE VALVES SHALL BE INSTALLED AT APPROXIMATELY EVERY 1,000 FEET. LOCATION SHOWN ON PLANS IS APPROXIMATE. FINAL LOCATION SHOULD BE COORDINATED TO OCCUR AT ENTRY/EXIT PIT LOCATIONS.

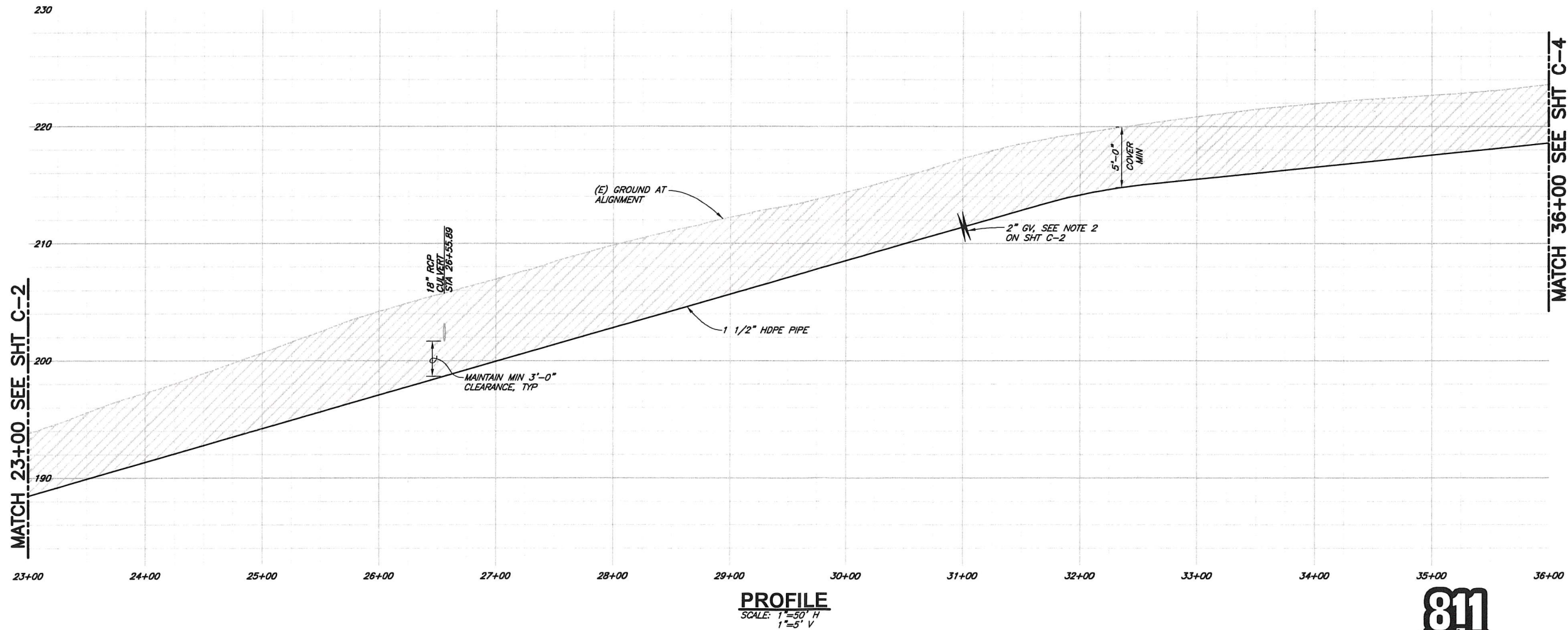
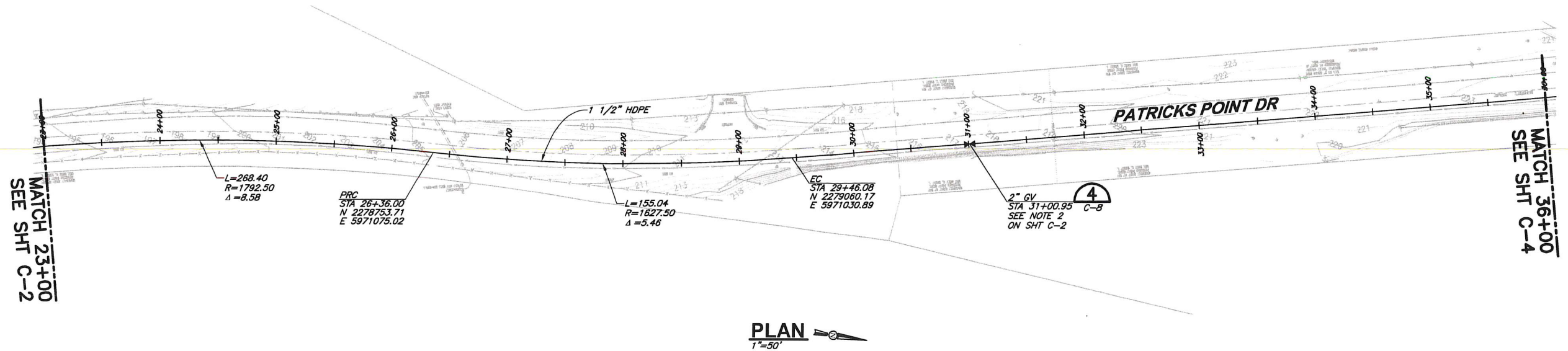


Contractor shall call Underground Service Alert at 811 two working days prior to excavation.
Landline: 1-800-227-2600



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DSGN	JSO
DR	CDN
CHK	KJN
APVD	
NO.	DATE
REVISION	BY
CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA	
PLAN AND PROFILE	
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SEQ 5	
DATE 03/2018	
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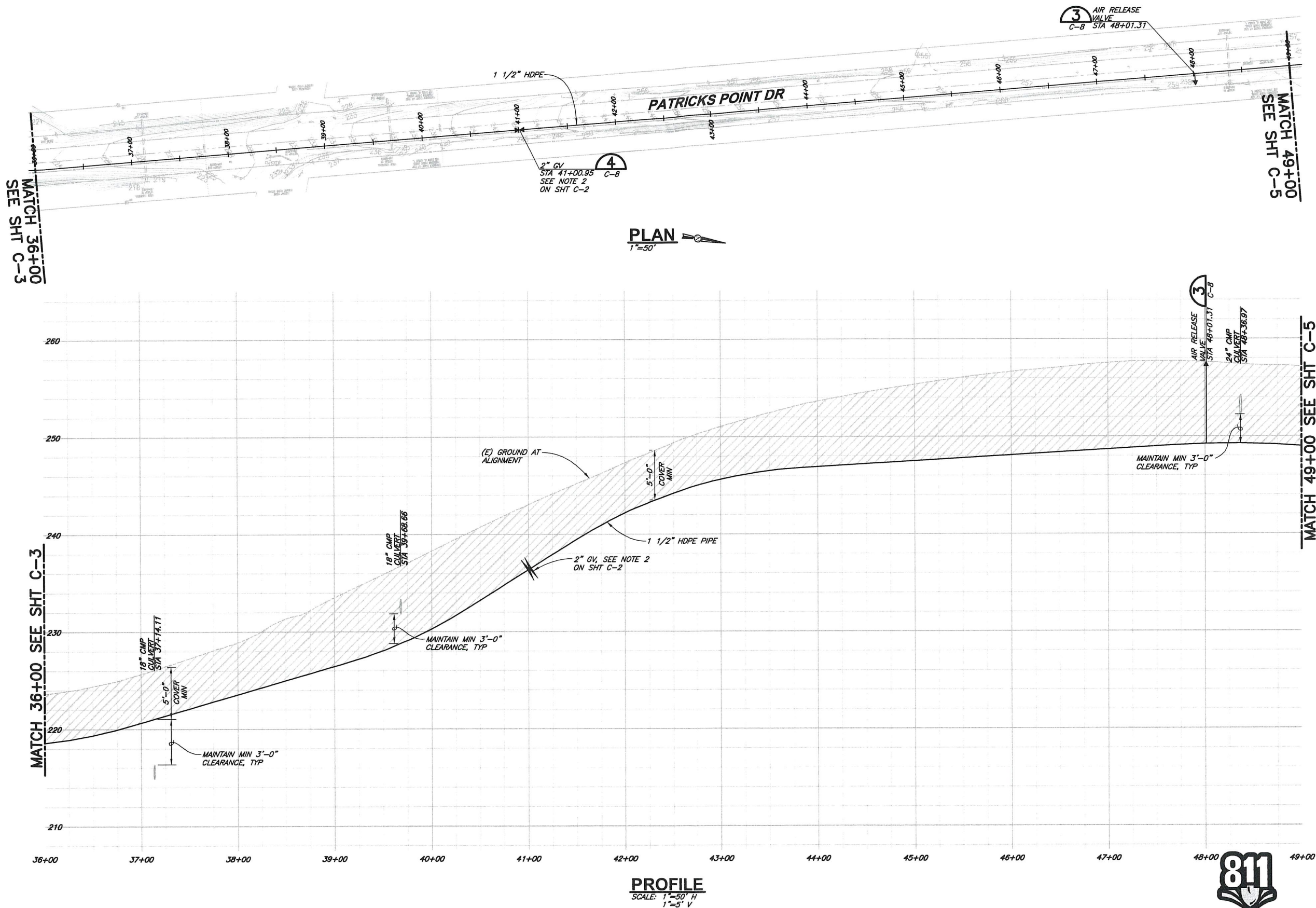
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DR	REVISION
CHK	DATE
APVD	NO.
CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA	
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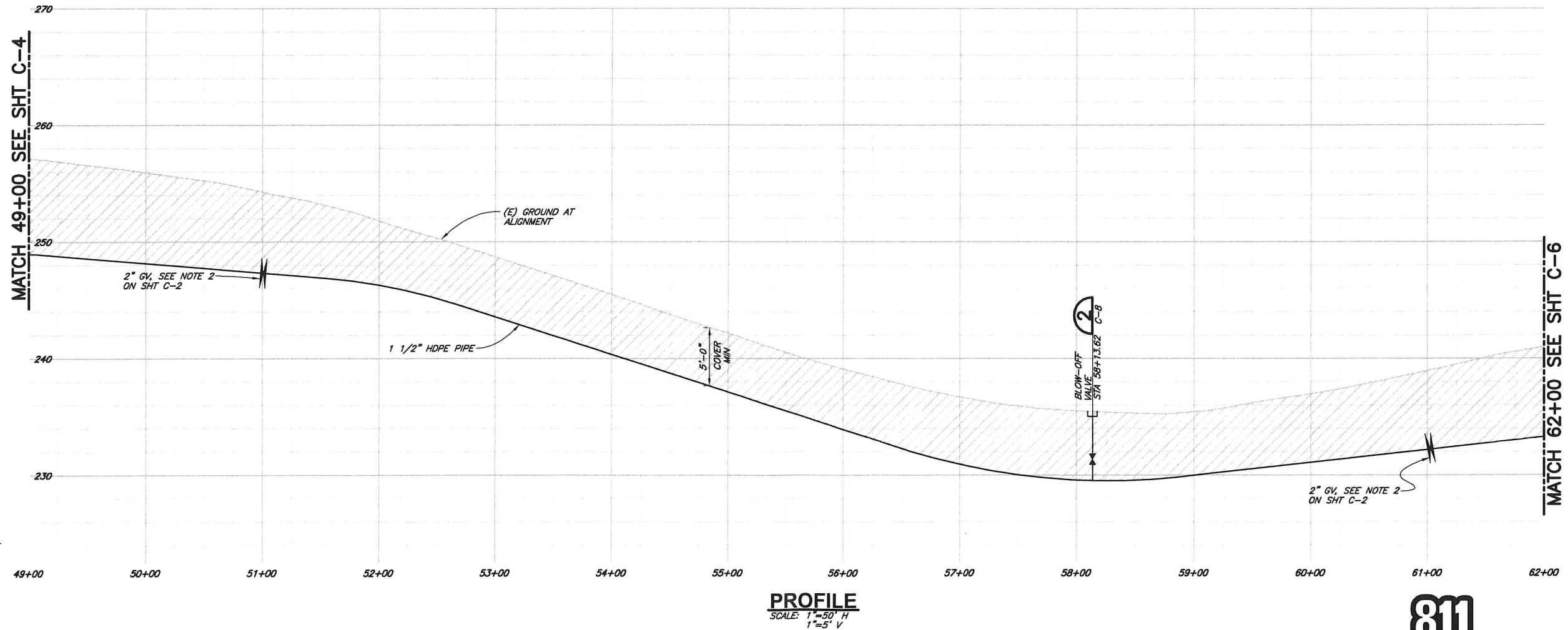
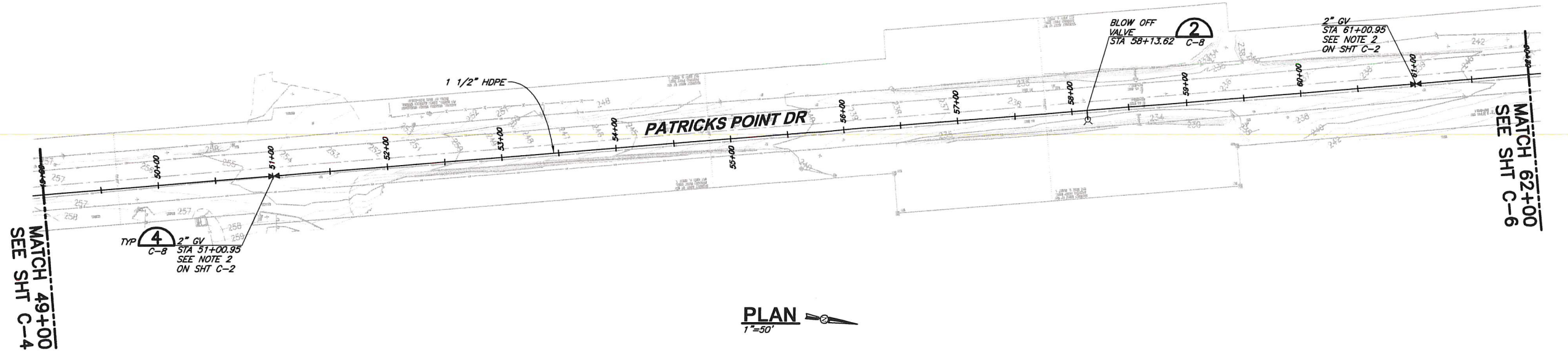


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CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA				PLAN AND PROFILE			
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DATE 03/2018				PROJ. NO. 015070			

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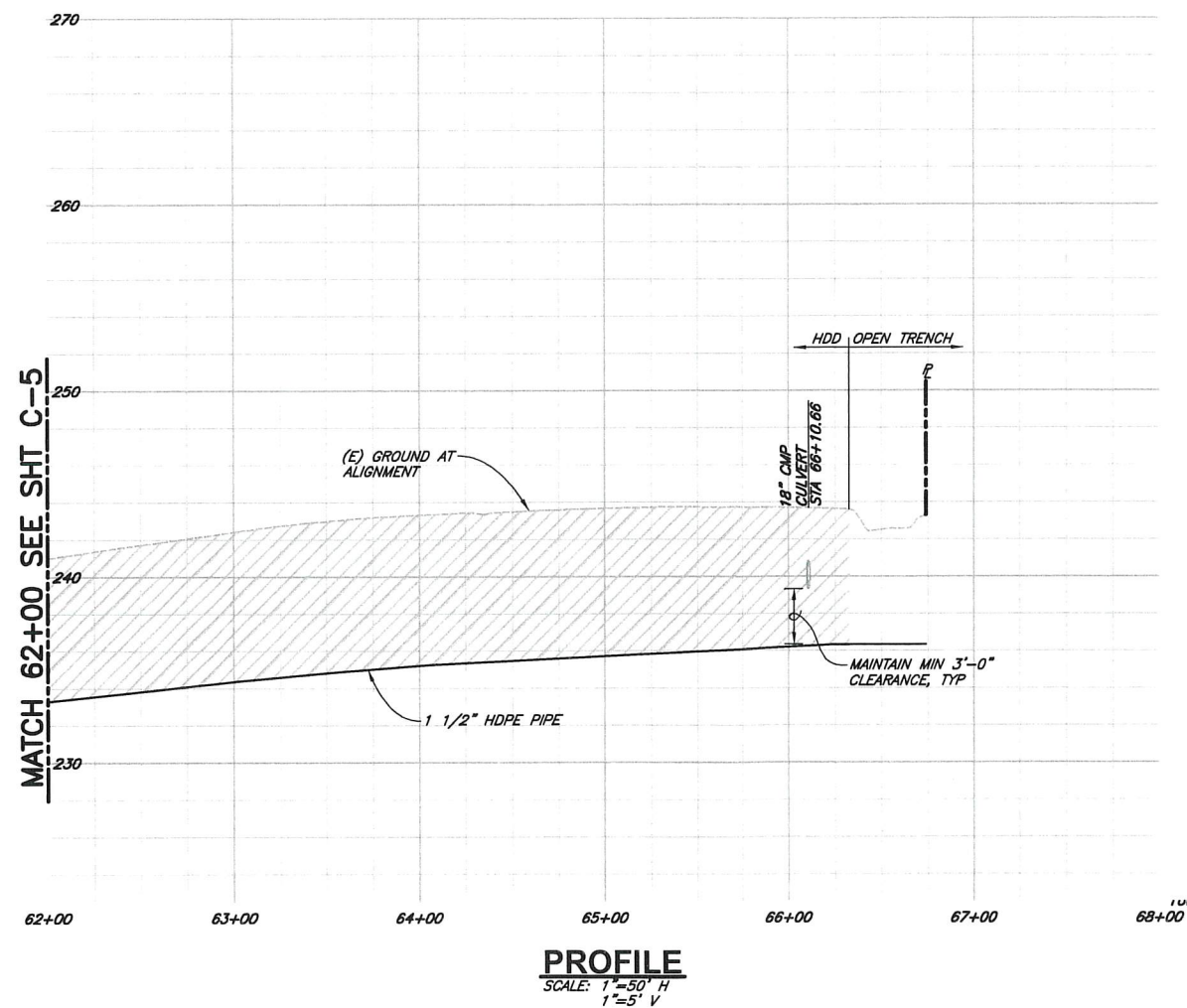
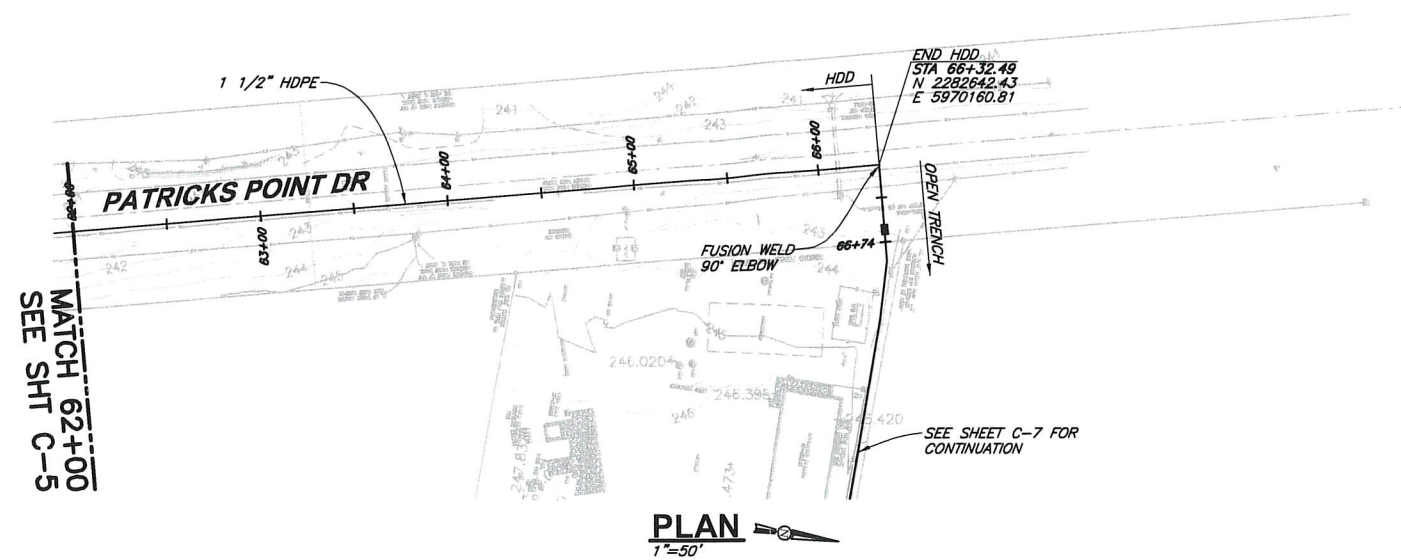
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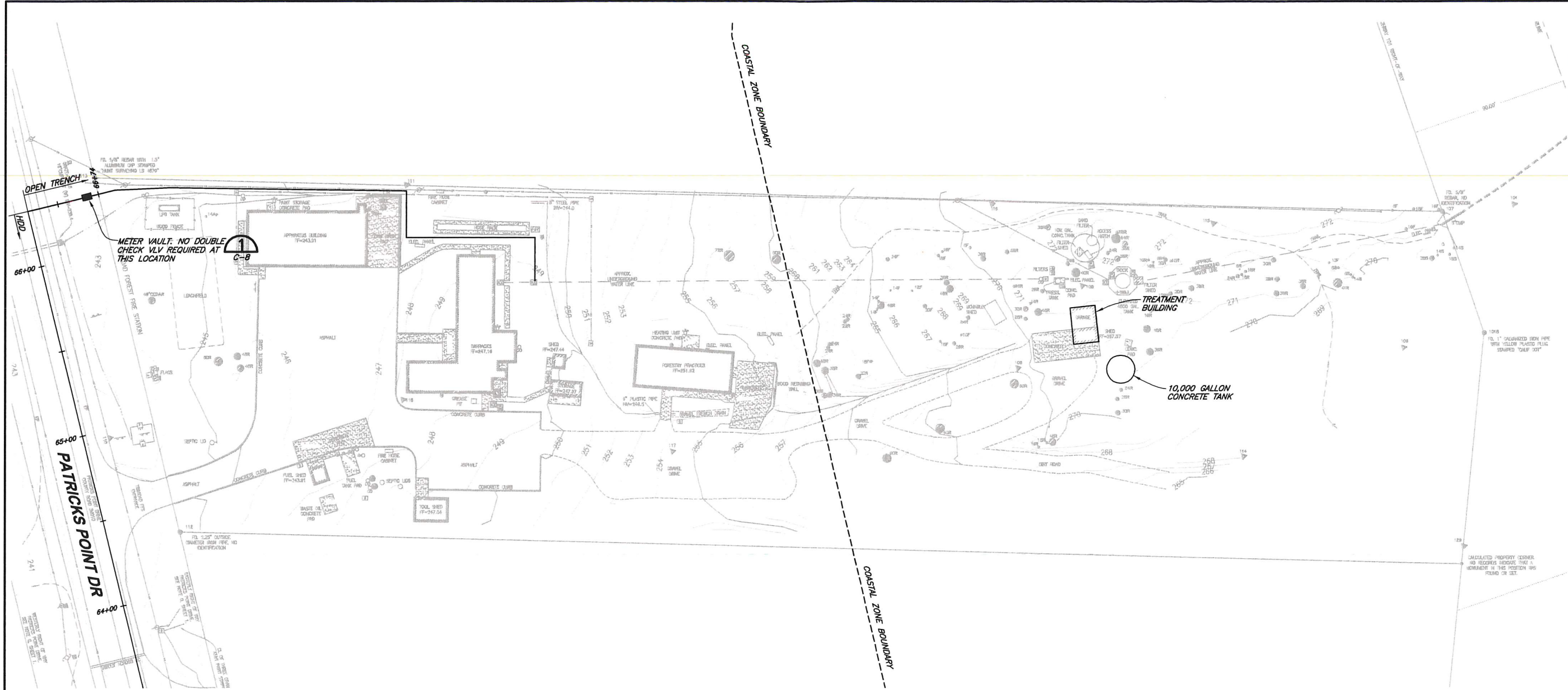


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to excavation.
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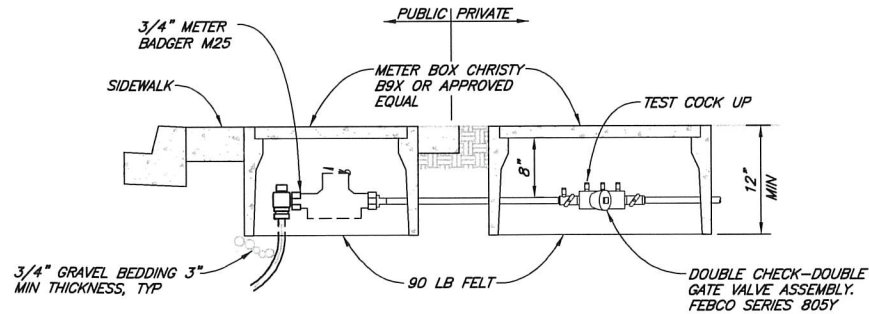


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SHEET		C-6			
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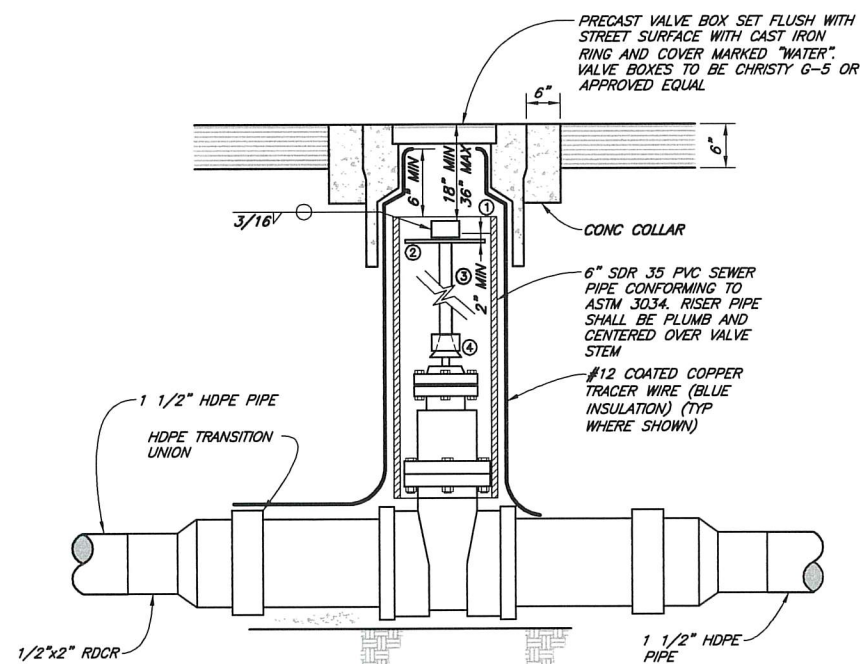


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PROJECT NO. 015070		DATE 03/2018	
SHEET C-7		DATE 03/2018	
PROJ. NO. 015070		DATE 03/2018	
DESIGN JSD		DATE	
DR CDN		NO.	
CHK KJN		REVISION	
APVD		BY	
ENLARGED SITE PLAN			
CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA			



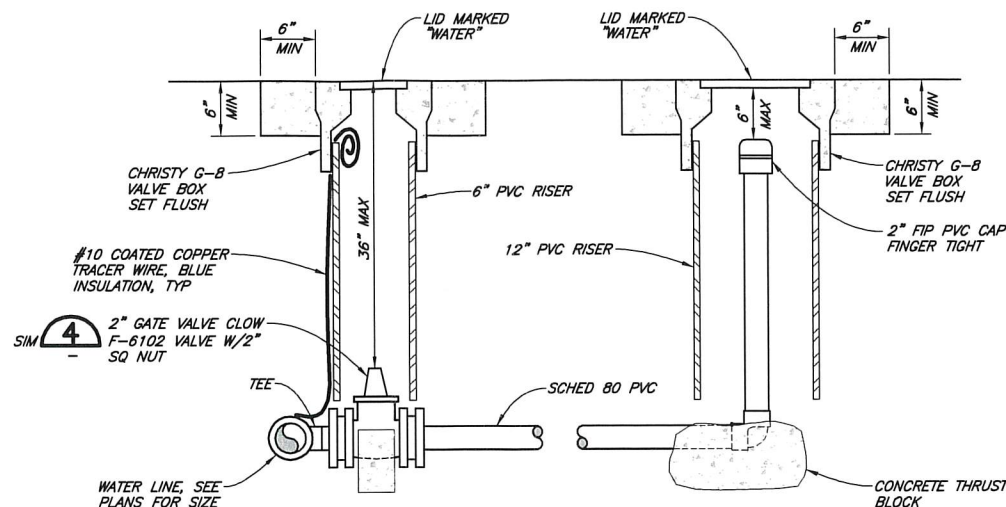
- NOTES:**
1. OTHER DOUBLE CHECK VALVE ASSEMBLIES MAY VARY IN SIZE AND MAY REQUIRE A LARGER BOX.
 2. ALL DOUBLE-CHECK VALVE ASSEMBLIES SHALL BE PROVIDED WITH A MINIMUM OF FOUR (4) TEST COCKS W/QUICK COUPLINGS.
 3. BACKFLOW PREVENTERS SHALL BE INSTALLED IN A SEPARATE METER BOX.
 4. CHECK VALVES SHALL BE LOCATED AS CLOSE TO THE WATER METER LOCATION AS POSSIBLE.
 5. ABOVE GROUND INSTALLATION REQUIRES GSP PIPE.
 6. METER SHALL BE BADGER M25. METER TO BE APPROVED BY CITY.

DETAIL 1
NTS C-2,7
(3/4" DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER)

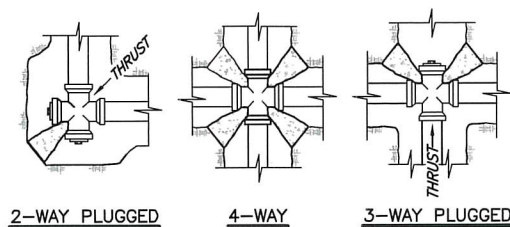


- NOTES:**
1. IF VALVE IS INSTALLED SO THAT THE TOP OF THE OPERATING NUT IS LESS THAN 36" BELOW FINISHED GRADE, THE STEM RISER IS NOT REQUIRED.
 2. ALL EXTERNAL BOLTS AND NUTS ON VALVES SHALL BE 304 STAINLESS STEEL OR VALVE ASSEMBLY SHALL BE POLY WRAPPED.
 3. IF ENDLINE VALVE, THEN PROVIDE ADEQUATE THRUST BLOCKING & RESTRAINT OR FLANGED/MJ CONNECTION.
 4. PROVIDE CLOW, WATEROUS, OR AVK VALVE.

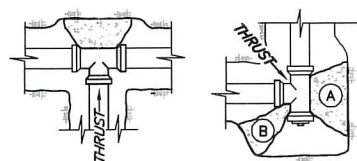
DETAIL 4
NTS C-2,3,4,5
(GATE VALVE INSTALLATION)



DETAIL 2
NTS C-5
(BLOW OFF VALVE)

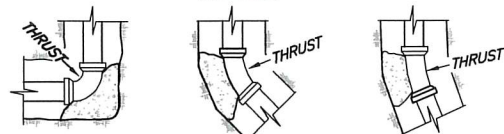


CROSSES



3-WAY

2-WAY PLUGGED

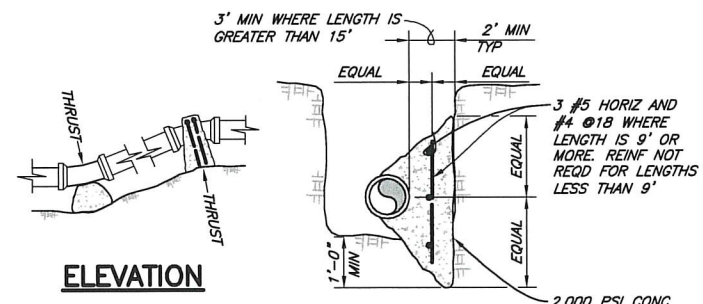


90 DEGREE

45 DEGREE

22 1/2 DEGREE

BENDS



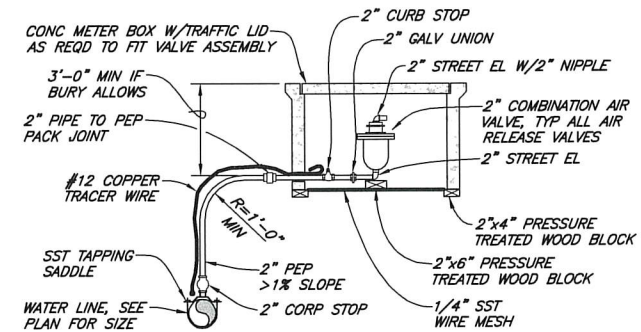
ELEVATION

TYPICAL SECTION

SQ FT OF THRUST BLOCK BEARING AREA		90 DEGREE BEND, PLUGGED CROSS	TEE, PLUGGED		45° BEND	22 1/2° BEND	11 1/4° BEND
PIPE SIZE	TEE, WYE, PLUG OR CAP		(A)	(B)			
4" OR LESS	2	3	2	3	2	1	1
6"	5	6	5	6	4	2	1
8"	8	11	8	11	6	3	2
10"	12	17	12	17	10	5	3
12"	17	24	17	24	13	7	4

- NOTES:**
1. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST FIRM, UNDISTURBED EARTH OR STRUCTURAL BACKFILL.
 2. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
 3. VOLUMES AND SPECIAL BLOCKING DETAILS SHOWN ON THE PLANS TAKE PRECEDENCE OVER VOLUMES AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.
 4. ALL BURIED PIPE EXCEPT FLANGED, SCREWED, SOLVENT-WELDED PVC, FUSION-BONDED PEP OR WELDED STEEL PIPE SPECIFIED TO BE PRESSURE TESTED SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKS AT ALL DIRECTIONAL CHANGES UNLESS OTHERWISE NOTED.
 5. THRUST BLOCKS SHALL NOT BE LOCATED OR SIZED TO ENCASE ADJACENT PIPES OR FITTINGS.
 6. THE SIZE AND WEIGHT OF ALL UPLIFT THRUST BLOCKS SHALL BE DETERMINED BY THE ENGINEER.
 7. THE BEARING AREAS ARE BASED ON TEST PRESSURE OF 150 PSI AND ALLOWABLE SOIL BEARING STRESS OF 1000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES USE THE FOLLOWING EQUATION: BEARING AREA=(TEST PRESSURE/150)x(1000/ALLOWABLE SOIL BEARING STRESS)x(TABLE VALUE).

DETAIL 5
NTS
(THRUST BLOCKING)



DETAIL 3
NTS C-4
(AIR RELEASE VALVE)



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CONSULTING ENGINEERS & GEOLOGISTS, INC.
WWW.SHN-ENG.COM
812 W. WABASH AVE.
EUREKA, CA 95501
707-441-8855

BY
REVISION
DATE
NO.

DESIGN
JSD
CDN
CHK
KJN
APVD

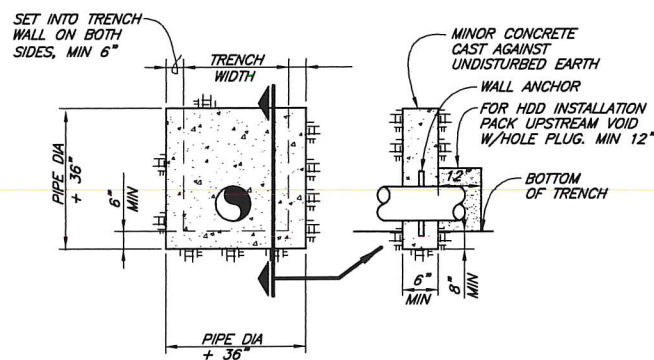
CAL FIRE
TRINIDAD FIRE STATION WATER SYSTEM UPGRADES
TRINIDAD, CALIFORNIA

DETAILS

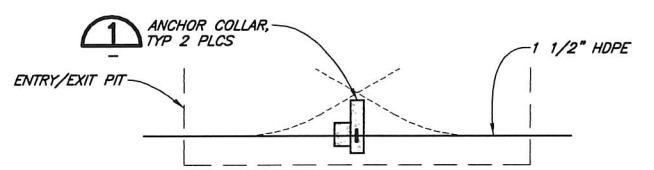
SHEET
C-8

SEQ 11
DATE 06/2017
PROJ. NO. 015070

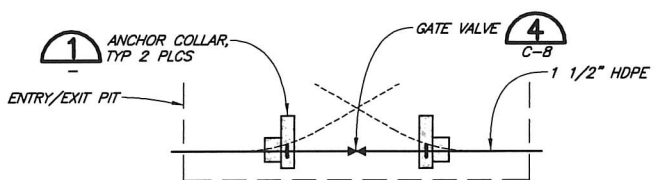
3/28/18



DETAIL 1
NTS
(ANCHOR COLLAR)

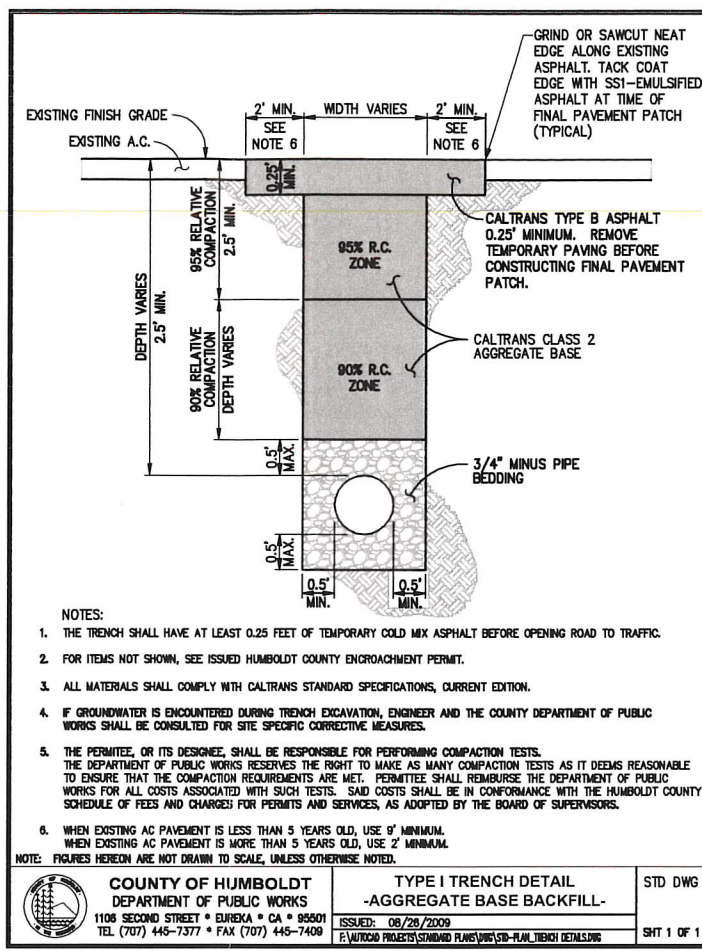


(AT ENTRY/EXIT PIT)



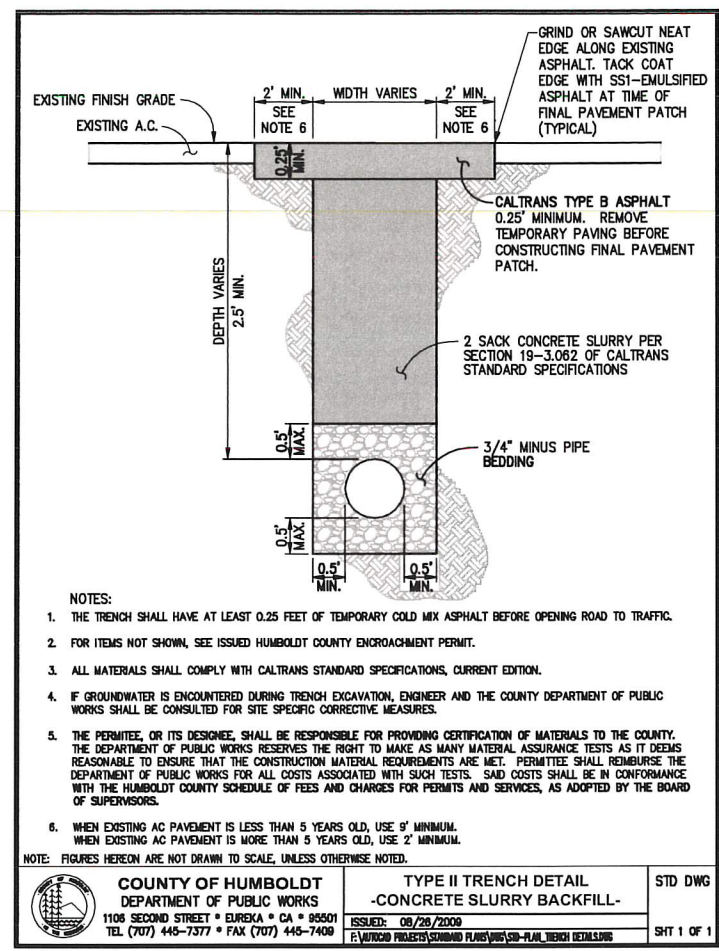
(AT GATE VALVE LOCATIONS)

DETAIL 2
NTS
(ANCHOR COLLAR LOCATION)



- NOTES:
1. THE TRENCH SHALL HAVE AT LEAST 0.25 FEET OF TEMPORARY COLD MIX ASPHALT BEFORE OPENING ROAD TO TRAFFIC.
 2. FOR ITEMS NOT SHOWN, SEE ISSUED HUMBOLDT COUNTY ENCROACHMENT PERMIT.
 3. ALL MATERIALS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS, CURRENT EDITION.
 4. IF GROUNDWATER IS ENCOUNTERED DURING TRENCH EXCAVATION, ENGINEER AND THE COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE CONSULTED FOR SITE SPECIFIC CORRECTIVE MEASURES.
 5. THE PERMITTEE, OR ITS DESIGNEE, SHALL BE RESPONSIBLE FOR PERFORMING COMPACTION TESTS. THE DEPARTMENT OF PUBLIC WORKS RESERVES THE RIGHT TO MAKE AS MANY COMPACTION TESTS AS IT DEEMS REASONABLE TO ENSURE THAT THE COMPACTION REQUIREMENTS ARE MET. PERMITTEE SHALL REIMBURSE THE DEPARTMENT OF PUBLIC WORKS FOR ALL COSTS ASSOCIATED WITH SUCH TESTS. SAID COSTS SHALL BE IN CONFORMANCE WITH THE HUMBOLDT COUNTY SCHEDULE OF FEES AND CHARGES FOR PERMITS AND SERVICES, AS ADOPTED BY THE BOARD OF SUPERVISORS.
 6. WHEN EXISTING AC PAVEMENT IS LESS THAN 5 YEARS OLD, USE 9" MINIMUM. WHEN EXISTING AC PAVEMENT IS MORE THAN 5 YEARS OLD, USE 2" MINIMUM.

	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS 1106 SECOND STREET • EUREKA • CA • 95601 TEL (707) 445-7377 • FAX (707) 445-7409	TYPE I TRENCH DETAIL -AGGREGATE BASE BACKFILL- ISSUED: 08/26/2009 E:\AUTOCAD PROJECTS\STANDARD PLANS\SD-PLAN\TRENCH DETAILS.DWG	STD DWG SHT 1 OF 1



- NOTES:
1. THE TRENCH SHALL HAVE AT LEAST 0.25 FEET OF TEMPORARY COLD MIX ASPHALT BEFORE OPENING ROAD TO TRAFFIC.
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 5. THE PERMITTEE, OR ITS DESIGNEE, SHALL BE RESPONSIBLE FOR PROVIDING CERTIFICATION OF MATERIALS TO THE COUNTY. THE DEPARTMENT OF PUBLIC WORKS RESERVES THE RIGHT TO MAKE AS MANY MATERIAL ASSURANCE TESTS AS IT DEEMS REASONABLE TO ENSURE THAT THE CONSTRUCTION MATERIAL REQUIREMENTS ARE MET. PERMITTEE SHALL REIMBURSE THE DEPARTMENT OF PUBLIC WORKS FOR ALL COSTS ASSOCIATED WITH SUCH TESTS. SAID COSTS SHALL BE IN CONFORMANCE WITH THE HUMBOLDT COUNTY SCHEDULE OF FEES AND CHARGES FOR PERMITS AND SERVICES, AS ADOPTED BY THE BOARD OF SUPERVISORS.
 6. WHEN EXISTING AC PAVEMENT IS LESS THAN 5 YEARS OLD, USE 9" MINIMUM. WHEN EXISTING AC PAVEMENT IS MORE THAN 5 YEARS OLD, USE 2" MINIMUM.

	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS 1106 SECOND STREET • EUREKA • CA • 95601 TEL (707) 445-7377 • FAX (707) 445-7409	TYPE II TRENCH DETAIL -CONCRETE SLURRY BACKFILL- ISSUED: 08/26/2009 E:\AUTOCAD PROJECTS\STANDARD PLANS\SD-PLAN\TRENCH DETAILS.DWG	STD DWG SHT 1 OF 1



VERIFIED SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CONSULTING ENGINEERS & GEOLOGISTS, INC.

WWW.SHN-ENGR.COM

812 W. WABASH AVE.

EUREKA, CA 95501

BY

REVISION

DATE

NO.

DESIGN: JSO

DR: CDN

CHK: KJN

APVD: APVD

CAL FIRE

TRINIDAD FIRE STATION WATER SYSTEM UPGRADES

TRINIDAD, CALIFORNIA

DETAILS

SHEET

SEQ 12

DATE 03/20/2018

PROJ. NO. 015070

C-9

ATTACHMENT 1 RECOMMENDED CONDITIONS OF APPROVAL

Approval of the Coastal Development Permit is conditioned upon the following terms and requirements which must be fulfilled before work is initiated or during project implementation.

1. Development shall be conducted consistent with the approved Project Description and Site Plan submitted 1-25-2019.
2. The applicant shall apply for, and obtain, an Encroachment Permit from the County prior to beginning any work on County roads, and an encroachment permit from Caltrans prior to beginning any work on State Highways.
3. The applicant shall provide traffic control and other temporary provisions in accordance with County of Humboldt Encroachment Permit Conditions.
4. City of Trinidad approval is required for the connection, and City requirements for the water line shall be met. A letter or other written communication from the City of Trinidad indicating that the project meets their requirements will satisfy this condition.

On-going Requirements/Development Restrictions Which Must be Satisfied for the Life of the Project:

1. The applicant is responsible for receiving all necessary permits and/or approvals from state and local agencies.
2. The water service line is exclusive to the CalFire Trinidad Fire Station; this permit does not authorize any additional water line service connections.

Informational Notes

1. Should known or suspected Native American skeletal remains or burials be inadvertently discovered, the provisions of Section 7050.5 of the California Health & Safety Code and Section 5097.98 of the Public Resources Code shall apply (find at <http://nahc.ca.gov/resources/a-professional-guide-for-the-preservation-and-protection-of-native-american-human-remains-and-associated-grave-goods>).
2. This permit shall expire and become null and void at the expiration of one (1) year after all appeal periods have lapsed (see "Effective Date") except where construction under a valid building permit or use in reliance on the permit has commenced prior to such anniversary date. The period within which construction or use must commence may be extended as provided by Section 312-11.3 of the Humboldt County Code.
3. New Development Requires Permit. Any new development as defined by Section 313-139 of the Humboldt County Code (H.C.C.), shall require a coastal development permit or permit modification, except for Minor Deviations from the Plot Plan as provided under Section 312-11.1 of the Zoning Regulations.
4. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.

ATTACHMENT 2
STAFF ANALYSIS OF THE EVIDENCE SUPPORTING THE REQUIRED FINDINGS

Required Findings: To approve this project, the Hearing Officer must determine that the applicant has submitted evidence in support of making all of the following required findings.

The County Zoning Ordinance, Section 312-17 of the Humboldt County Code (Required Findings for All Discretionary Permits) specifies the findings that are required to grant a Coastal Development Permit:

1. The proposed development is in conformance with the County General Plan;
2. The proposed development is consistent with the purposes of the existing zone in which the site is located;
3. The proposed development conforms with all applicable standards and requirements of these regulations;
4. The proposed development and conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare; or materially injurious to property or improvements in the vicinity;
5. The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.
6. In addition, the California Environmental Quality Act (CEQA) states that one of the following findings must be made prior to approval of any development which is subject to the regulations of CEQA. The project either:
 - a) is categorically or statutorily exempt; or
 - b) has no substantial evidence that the project will have a significant effect on the environment and a negative declaration has been prepared; or
 - c) has had an environmental impact report (EIR) prepared and all significant environmental effects have been eliminated or substantially lessened, or the required findings in Section 15091 of the CEQA Guidelines have been made.

1. General Plan Consistency: The following table identifies the evidence which supports finding that the proposed development is in conformance with all applicable policies and standards in the Trinidad Area Plan (TAP) and the County of Humboldt 2017 General Plan (GP).

Plan Section(s)	Summary of Applicable Goal, Policy or Standard	Evidence Which Supports Making the General Plan Conformance Finding
§ 4.30 Land Use: Public Facility	To protect appropriate sites for essential public most appropriately located in rural areas (e.g., fire stations)	The existing CalFire Trinidad Fire Station is an essential public facility and this land use will continue.

<p>Public Services: §3.23B(1)</p> <p>Extension of Service (Rural)</p>	<p>Extensive rural public service systems, such as water and sewer, shall not be developed. Provision of new services outside of the Urban Limit Line or Westhaven Village area shall not be approved, except for water service shall only be permitted: 1) within the service area, if sized so as not to exceed the maximum number of residential sites and other planned uses which can be developed under the adopted plan; and 2) to the CalFire Trinidad Fire Station if sized so as to not exceed the provision of the minimum amount of water needed to serve the fire station's domestic water use only. Additional findings must be made for 1 or 2 above consistent with section 3.23.B.1(i) and (ii).</p>	<p>CalFire is applying for a Coastal Development Permit to extend the domestic water supply line from the City of Trinidad. The provisions of section 3.23.B.1(ii) are satisfied as follows:</p> <ol style="list-style-type: none"> 1. <u>Is sized so as not to exceed provision of the minimum amount of water needed to serve the fire station for domestic use</u> - The proposed water line extension is designed to serve only the fire station's domestic needs. The service line is a 1-1/2-inch diameter high density polyethylene water line. The existing non-potable water source (Martin Creek diversion) will continue to be used for truck washing and fire suppression water; 2. <u>Will not remove capacity necessary to serve future development within the City of Trinidad</u> - The City of Trinidad conducted an analysis of its water system for their companion LCP amendment and determined that the domestic water demand from the fire station would not remove capacity necessary to serve future development within the City or impair its fire protection services; 3. <u>Will not impair fire protection services in the City of Trinidad</u> - see #2 above; 4. <u>Is designed and conditioned in such a way that it will not service additional parcels or be growth inducing</u> - By restricting this extension to serve only the CalFire Trinidad Fire Station, the LCP amendment was limited to prevent growth inducement. Further, the project is conditioned to prevent additional service connections to the extended service line; and 5. <u>Is found to be in conformance with the resource protection policies of the TAP</u> - Horizontal directional drilling will be used for the waterline construction to avoid impacting stream and riparian zones where crossings are needed. Additionally, no adjacent resource lands will be responsible for the cost of the line extension.
---	---	--

Hazards: §3100	New development shall minimize risk to life and property in areas of high geologic, flood and fire hazards.	<p>No new development is proposed other than provision of an alternate domestic water source. Water for fire suppression purposes will continue to be provided by the existing water source.</p> <p>The property is located within Flood Zone "C", areas outside the 100 year Flood Zone.</p> <p>The parcel has a high fire hazard rating and is outside of a fire protection district.</p>
Archaeological & Paleontological Resources §3500	New development shall protect cultural, archaeological and paleontological resources.	<p>Pursuant to SB 18 (California Government Code Section 65352.3), notice was sent on March 23, 2017 to potentially affected tribes to request consultation regarding the proposed General Plan Amendment. As of July 17, 2017 (90 day timeframe), no tribe requested a consultation. The Tribal Historic Preservation Officer (THPO) from the Cher-Ae Heights Indian Community did respond and did not request consultation or require further study, but did request that a cultural monitor be present during project construction, and this will be made a condition of approval for the Coastal Development Permit. Additionally, the standard condition regarding inadvertent discovery will be included in the conditions of approval.</p>
Resource Protection §3400	To protect designated sensitive and critical resource habitats.	<p>The site is relatively flat and developed with public facility (fire station) uses. The fire station currently uses nearby surface water from Martin Creek to supply water for drinking, equipment cleaning, irrigation, and fire suppression. Cal Fire has documented evidence that this water supply is unreliable and potentially unsafe. Any new development will be required to comply with the County's Coastal Riparian Protection and Inland (non-coastal) Streamside Management Area Ordinance (SMAO) regulations. There was no sensitive habitat identified on site. The project was referred to the California Department of Fish and Wildlife, which requested that if the current diversion infrastructure be decommissioned to the extent feasible if it is no longer to be used. CalFire has indicated that the current infrastructure will be used for washing vehicles and other non-domestic water uses.</p>

2. Zoning Compliance and 3. Development Standards: The following table identifies the evidence which supports finding that the proposed development is in conformance with all applicable policies and standards in the Humboldt County Zoning Regulations

Code Section	Summary of Applicable Requirement	Evidence That Supports the Zoning Finding
TAP - §4.20 Public Facility (PF) Right of way – located adjacent to several districts	The PF Zone is intended to be applied in areas of the County suitable for development of public and private sector civic service facilities.	The proposed project is an Essential Services Civic Use Type allowed as a conditionally permitted use in all zoning districts and includes extension of a public water supply one. A Use Permit is not required for this work because the line will be installed within a public right of way and will remain under the control and ownership of the City of Trinidad, zoning is inapplicable to the project. A similar exemption applies to the construction of water transmission lines by local districts pursuant to Section 53091(e) of the California Government Code. A CDP is required, however. The Road ROWs are owned in fee by the County of Humboldt and State of California.
Min. Lot Size	5,000 square feet	N/A no subdivision is proposed.
Min. Lot Width	Fifty feet (50')	N/A no subdivision is proposed.
Yard Setbacks	Front - twenty feet (20'), Sides - five feet (5'), Rear - ten feet (10')	The proposed improvements at the CalFire site would meet setbacks; other improvements would be within the ROW.
Max. Lot Coverage	Thirty-five percent (35%)	Complies
Max. Bldg. Height	Thirty-five feet (35')	Complies
§313-171 Civic Use Types	Civic (Public) Uses include... governmental uses of importance to the public and shall be permitted in any zone	The proposed water line is considered an essential public use and are permitted in all districts.

4. Public Health, Safety and Welfare; and 6. Environmental Impact: The following table identifies the evidence which supports finding that the proposed development will not be detrimental to the public health, safety and welfare, or materially injurious to properties or improvements in the vicinity and will not adversely impact the environment.

Code Section	Summary of Applicable Requirement	Evidence that Supports the Required Finding
§312-17.1.4	Proposed development will not be detrimental to the public health, safety and welfare; and will not be materially injurious to properties or improvements in the vicinity.	The proposal would allow for continued use of the property as a public facility fire station by providing a more suitable domestic water supply. All reviewing referral agencies that responded have approved the proposed development. No adverse impacts to properties in the vicinity are expected.
CEQA §15063	CEQA review required	The proposed project was determined pursuant to Section 15303(d) of the California Environmental Quality Act (CEQA) Guidelines to be Categorically Exempt.

5. Residential Density Target: The following table identifies the evidence which supports finding that the proposed project will not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

Code Section	Summary of Applicable Requirement	Evidence that Supports the Required Finding
312-17.1.5 and 322-3.1 Housing Element Densities	The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law (the mid point of the density range specified in the plan designation), except where: 1) the reduction is consistent with the adopted general plan including the housing element; and 2) the remaining sites identified in the housing element are adequate to accommodate the County share of the regional housing need; and 3) the property contains insurmountable physical or environmental limitations and clustering of residential units on the developable portions of the site has been maximized.	The proposed project is sited on lands historically utilized for public facility (fire station) uses. The parcel was not utilized by the Department of Housing and Community Development in determining compliance with housing element law.

ATTACHMENT 3
APPLICANT'S EVIDENCE IN SUPPORT OF THE REQUIRED FINDINGS

Attachment 3 includes a listing of all written evidence which has been submitted by the applicant in support of making the required findings. The following materials are on file with the Planning Division.

- Application Form (in file)
- Project Description (in file)
- Plot Plan (attached)
- CEQA Notice of Exemption (in file)

City of Trinidad Water Service Extension to CAL FIRE Trinidad Fire Station

Project Description

November 2018

Introduction

On behalf of CAL FIRE, SHN Engineers & Geologists has prepared this project description for the CAL FIRE Humboldt-Del Norte Unit Trinidad Fire Station, located at 923 Patrick's Point Drive (Assessor's parcel number 515-241-011), in the community of Trinidad, in Humboldt County, California (Figure 1). The fire station is located approximately ½ mile north of the City of Trinidad sphere of influence (SOI). It is within County Service Area Number Four (CSA4), which provides year-round fire protection service from McKinleyville to Orick. The proposed project is located within the California Coastal Zone and requires coastal development permits (CDPs) from both the City of Trinidad and the County of Humboldt.

Background

CAL FIRE staffs the fire station year-round and responds to the City of Trinidad for all medical, traffic accident, structural, and wildland fire dispatches at the same time the Trinidad Volunteer Fire Department is dispatched. Because the fire station is very close to the City of Trinidad and is staffed, CAL FIRE's engine is usually on-scene faster than the Volunteer response. CAL FIRE is and has been providing this service at no cost to the City, clearly demonstrating a public service and public good to the City, as well as surrounding areas.

Existing site features at the CAL FIRE Trinidad Station (fire station) are shown on Figure 2. Currently, the fire station uses nearby surface water from Martin Creek to supply water for drinking, equipment cleaning, irrigation, and fire suppression. CAL FIRE has documented evidence that this water supply is unreliable and potentially unsafe, and therefore, the fire station is looking for an alternative potable water supply.

The proposed extension of City of Trinidad water service to the fire station was initiated as early as 2009, with a preliminary feasibility evaluation, conducted by Trinidad City Engineer Winzler & Kelly, and submitted to Humboldt Local Agency Formation Commission (LAFCo). The evaluation was to determine the potential water demand from the fire station, the available water supply from the City of Trinidad, and the infrastructure necessary to make the connection. Results found that the fire station's estimated peak demand of 800 gallons per day is less than 1% of the City of Trinidad's available capacity and that the City has available water supply and could provide the fire station with potable water.

In May 2010, Humboldt LAFCo determined that a Cortese-Knox-Hertzberg Act, Section 56133 exemption was applicable for the water service extension, given that the service in question involves a public service provider. Consequently, on May 19, 2010, Humboldt LAFCo approved CAL FIRE's application, and passed and adopted Resolution 10-07 determining that a LAFCo exemption applies for the water service extension from the City of Trinidad to serve the fire station; therefore, the proposed service extension does not require LAFCo approval.

However, in response to a CAL FIRE request, the California Coastal Commission (CCC) indicated in a summary email on July 11, 2014, that any such extension of water service would be inconsistent with the current Local Coastal Programs (LCP) of both the City of Trinidad and Humboldt County. The project parcel is outside of (directly adjacent to, on the north side of) the City of Trinidad's City service area/City service limit line (Figures 3

uncontrolled release of drilling fluids (hydraulic “frac-out”) during HDD. During drilling operations, the drilling mud fluid level will be monitored in the entry and exit pits to prevent overflow or loss of returns associated with frac-out. The entry and exit pits will be encircled with straw wattles and cleaned out with a vacuum truck to prevent the release of the drilling mud. This will be done during drilling, reaming, and pipe pull back.

As part of the HDD operation, tracer wire will be installed with the new pipe so that the HDD progress can be monitored from the surface and the installed pipe may be located from the surface in case future access is necessary.

Equipment to be used for HDD will consist of the following:

- A directional drilling rig of sufficient capacity to perform the bore, reaming, and pullback of the pipe
- A drilling fluid mixing, delivery, and recovery system (if fluid recycle is deemed appropriate by the contractor) of sufficient capacity to complete the installation.
- Drilling fluid storage and recycling system to remove solids from the drilling fluid when the fluid is reused (if fluid recycle is deemed appropriate by the contractor).
- A surface monitoring tracking system.
- Vacuum trucks of sufficient capacity to contain 150 percent of the drilling fluid volumes in use.
- Equipment and materials necessary and adequate to contain and clean unplanned drilling fluids release during hydraulic fractures at all times when drilling operations are underway.
- Trained and competent personnel to operate the systems.
- A tracking system with suitable technology for adding a down-hole pressure monitor for measuring drilling fluid pressures in the annulus of the borehole directly behind the cutting head (use of the down-hole pressure sub will be determined necessary if repeated incidental releases of drilling fluid to the environment occur.)

The following project requirements are included in the project specifications Section 33 05 23.13 Horizontal Directional Drilling:

- 1.3(A) Prior to beginning work, the contractor shall submit a comprehensive work plan detailing the procedure and schedule to be used to execute the project.... (B) The work plan shall include, at a minimum, the following elements:... (5) A proposed typical project site layout showing locations for drilling equipment and support systems; mud recovery equipment and tanks or pits, if included; sediment and environmental controls; source of water for construction operations; equipment trailers and support machinery; site security and boundary fencing; traffic control through the construction site for vehicles, bicycles, and pedestrians; and pipe storage, pipe staging during pull-in, fusion welding, and equipment storage areas.... (8) Environmental protection plan and hydraulic fracture contingency plan for preventing, responding to, correcting, and cleaning of fluids associated with hydraulic fracturing or unplanned drilling fluid release, including monitoring of fluid pressures and visual observations along the drill alignment for potential hydraulic fractures.... (11) Listing of proposed disposal sites for drilling fluids and cuttings; and methods of handling, transport, and disposal of drill fluids and cuttings.
- 2.2(B) All equipment shall be in good, safe condition with sufficient supplies, materials, and spare parts on hand to maintain the system in good working order for the duration of this project.
- 2.2(C) All stationary equipment shall be placed on and within a containment structure that will prevent the escape of fuel, oil, hydraulic fluid, and other potential contaminants that result from accidental equipment leaks or malfunctions.
- 3.2(A)(3) The required piping shall be assembled in a manner that does not obstruct adjacent roadways or public activities. The contractor shall erect temporary fencing to secure the entry and exit staging areas.

BMPs and Contractor Requirements

The following project requirements are included in the General Notes on Sheet G-3 of the project plans:

- 3. The contractor shall prepare a detailed traffic control plan for all work areas and shall submit the plan to the City and County for discussion and approval at the preconstruction meeting. The traffic control plan shall comply with all required permits and other guidelines listed on these plans and in the specifications. The contractor shall clearly show on the traffic control plan how the contractor intends to position all signs and other traffic control devices throughout the work area during all phases of construction. The traffic control plan shall conform to the requirements of the Caltrans MUTCD (California Manual on Uniform Traffic Control Devices) Part 6 "Temporary Traffic Control."
- 13. The contractor shall take effective action to prevent the formation of an airborne dust nuisance. All construction shall be performed in such a manner as to comply with the standards established by the North Coast Unified Air Quality Management District for airborne particulates.
- 14. The contractor shall maintain all streets and sidewalks, and all other public right-of-way in clean, safe, and usable condition throughout the execution of the work. All spills of soil, rock, construction debris, etc. shall be removed immediately from publicly owned property. All adjacent property, public or private, shall also be maintained in a clean, safe, and usable condition. The contractor shall provide for safe, unobstructed access to private property adjacent to the work site, and safe passage of public traffic through the work zone during the construction period.
- 15. The contractor shall employ standard best management practices (BMPs) for erosion control, including but not limited to, implementing construction during the dry season, removal of the minimum amount of vegetation necessary to accomplish the work, and placement of straw bales or coir rolls downstream during construction.

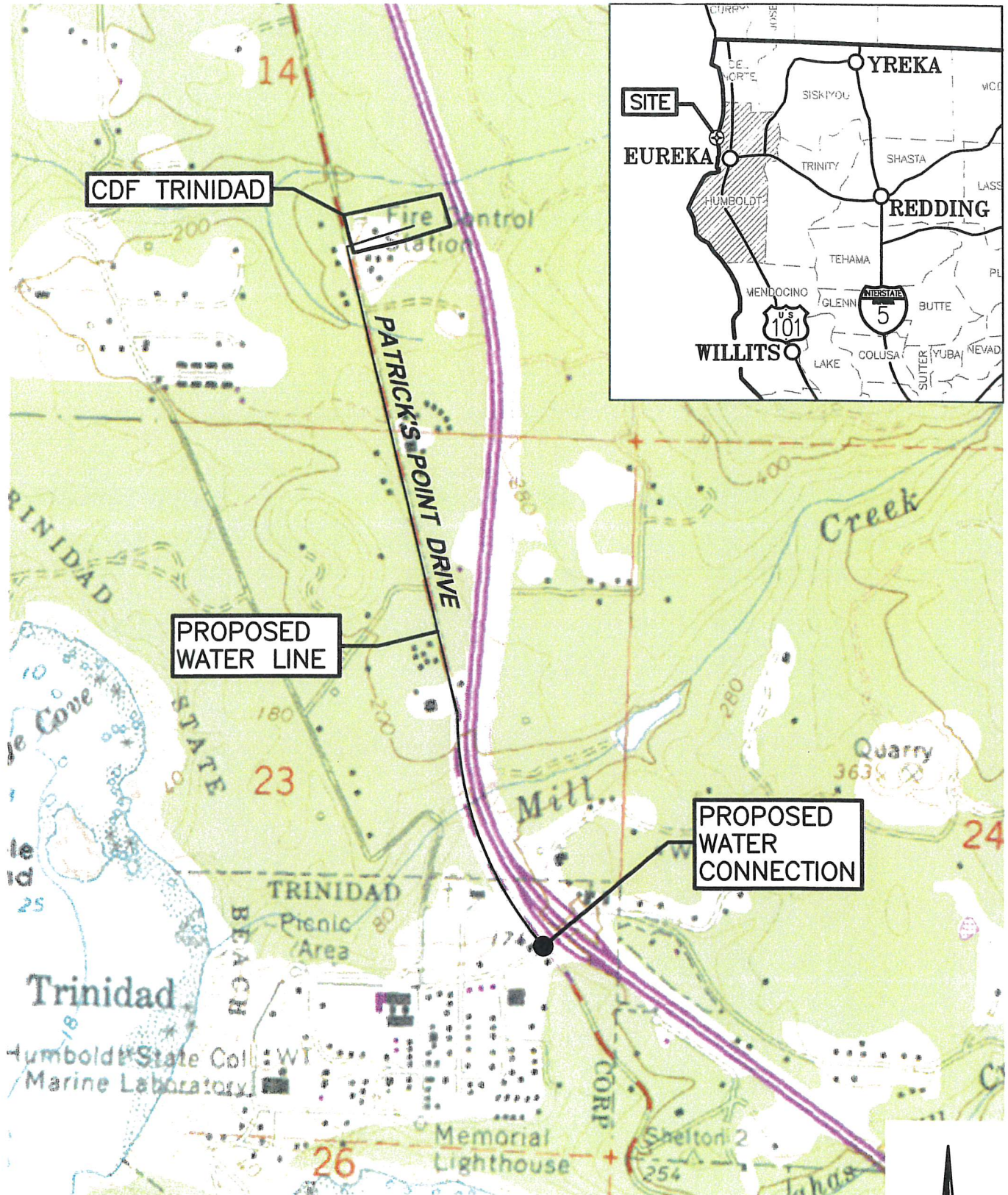
Timing of Construction

CAL FIRE plans to construct the project during the dry season. Construction is anticipated to take approximately 4-6 weeks.

Attachments: Figure 1: Site Location Map
Figure 2: Enlarged Site Plan
Figure 3: Trinidad General Plan Land Use
Figure 4: Trinidad Area Plan Land Use Designations

1 Site Location Map

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SOURCE: TRINIDAD
USGS 7.5 MINUTE QUADRANGLE



SHN
Consulting Engineers
& Geologists, Inc.

CDF Trinidad Fire Station
Trinidad, California

Site Location Map

SHN 015070

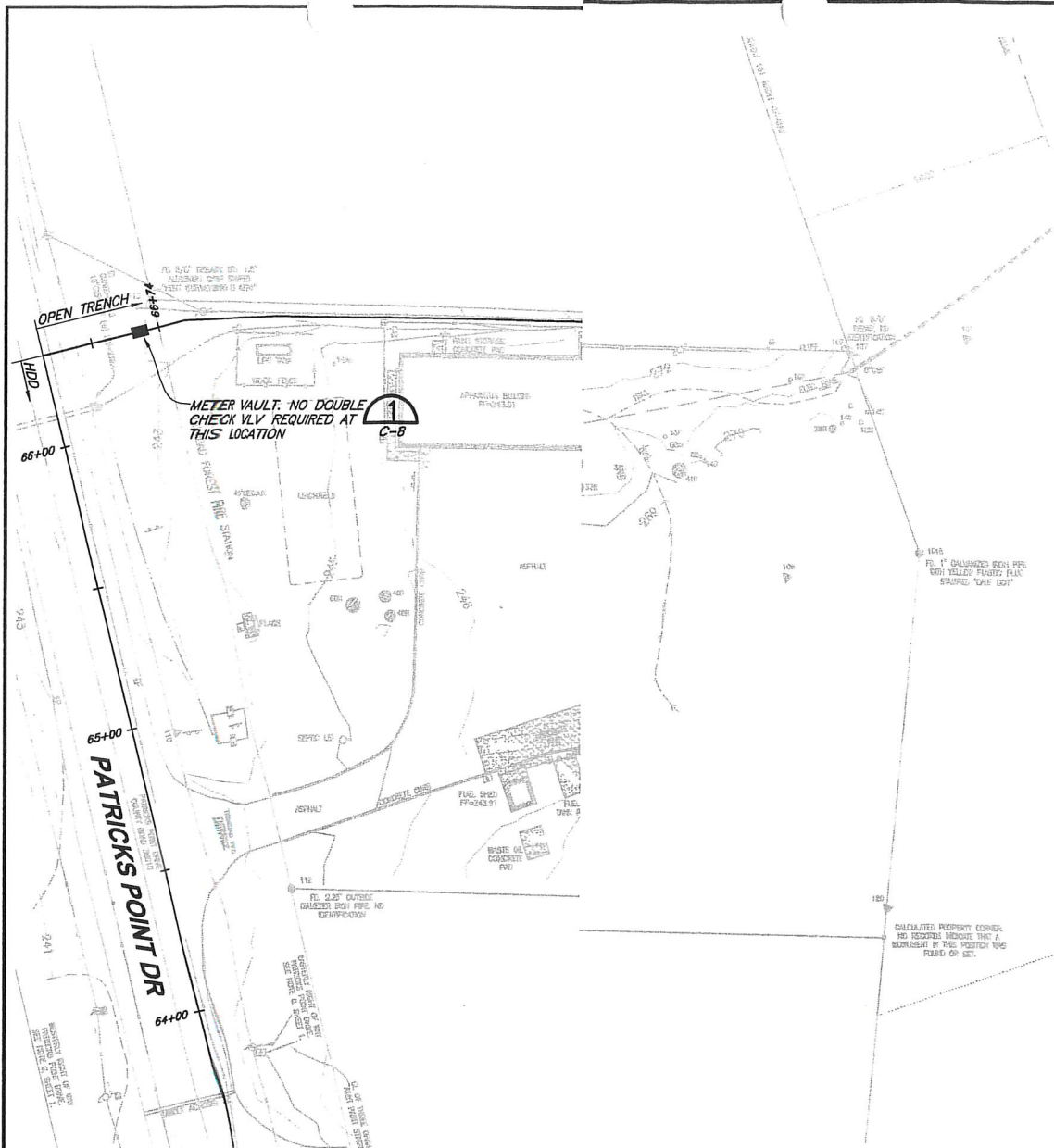
August 2015


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May 16, 2017

Figure 1
Page 35

2 Enlarged Site Map

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VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
CONSULTING ENGINEERS & GEOLOGISTS, INC. WWW.SHN-ENGR.COM 812 W. WABASH AVE. EUREKA, CA 95501	
	
DSGN JSD DR CDN CHK KJN APVD	NO. DATE REVISION BY
CAL FIRE TRINIDAD FIRE STATION WATER SYSTEM UPGRADES TRINIDAD, CALIFORNIA ENLARGED SITE PLAN	
SHEET C-7	
SEQ 10	
DATE 03/2018	
PROJ. NO. 015070	



3/28/18

ATTACHMENT 4
Referral Agency Comments and Recommendations

The project was referred to the following agencies for review and comment. Those agencies that provided written comments are checked off.

Referral Agency	Response	Recommendation	On File
County P/W, Land Use Division	✓	Conditional Approval	✓
California Coastal Commission			
Building Inspection Division	✓	Conditional Approval	✓
Environmental Health			
City of Trinidad	✓	Information supporting required findings for consistency with section 3.23.B1 (ii)	✓