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CITY OF PLACERVILLE

MEASURE H&L IMPROVEMENT PROJECT

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NO. REVISIONS		APPROVAL	
		BY	DATE

MOSQUITO ROAD STABILIZATION PROJECT

PHASE I

PROJECT NO. 41819

SUBMITTED BY:

ACSchiestel

AARON C SCHIESTEL RCE: 77357
ASSOCIATE CIVIL ENGINEER
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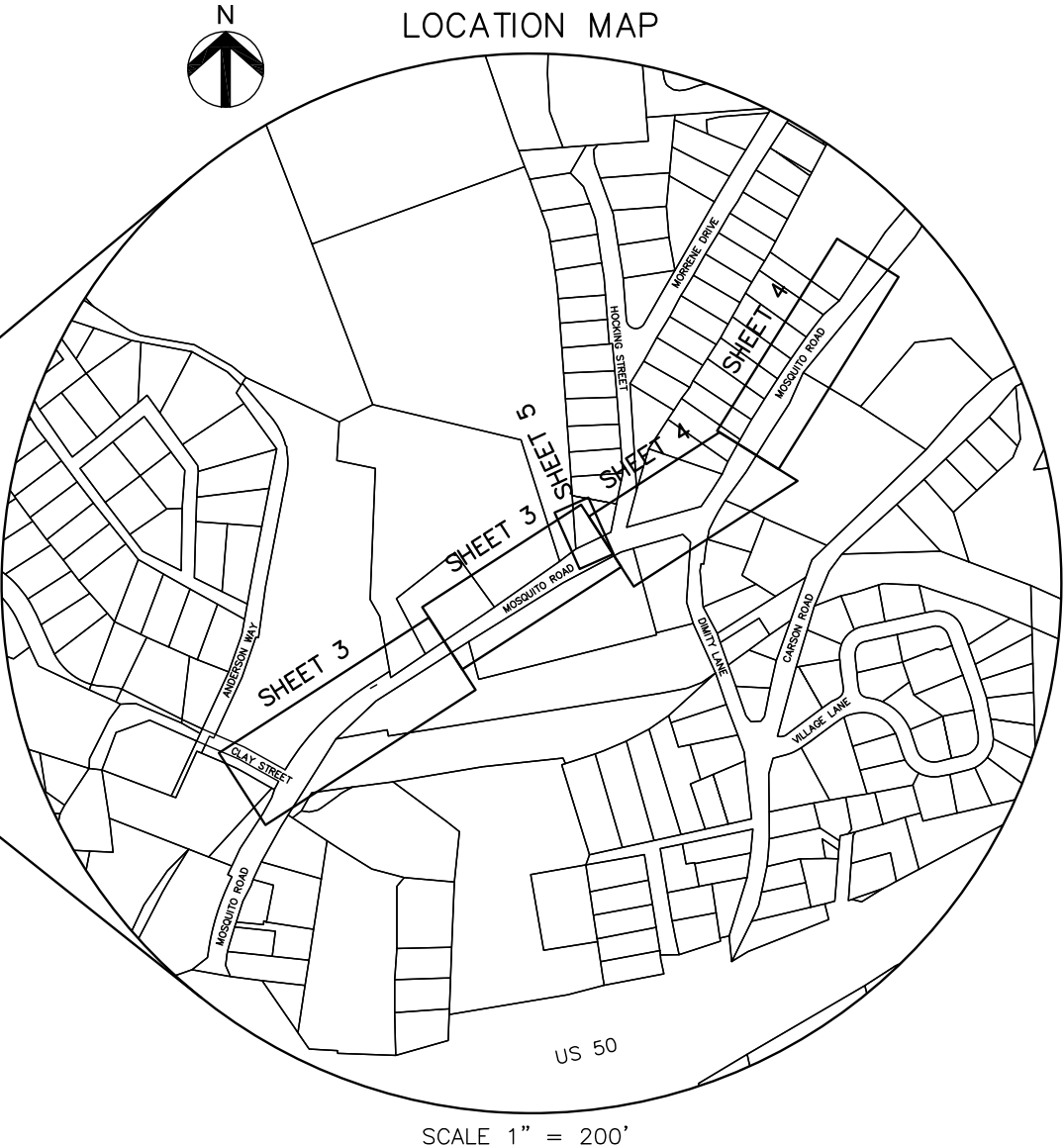
APPROVED BY:

Rebecca Neves

REBECCA NEVES RCE: 71920
CITY ENGINEER
CITY OF PLACERVILLE

OCTOBER, 2019

UTILITY REPRESENTATIVES		
UTILITY	REPRESENTATIVE	PHONE
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WATER: CITY OF PLACERVILLE	CORY SCHIESTEL	(530) 642-5557
TELEPHONE: AT&T	DARREN MORTENSON	(530) 621-6926
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CABLE T.V.: COMCAST	JUSTIN WALLACE	(530) 292-8108
WATER: EL DORADO IRRIGATION DISTRICT	PATRICK WILSON	(530) 642-4079



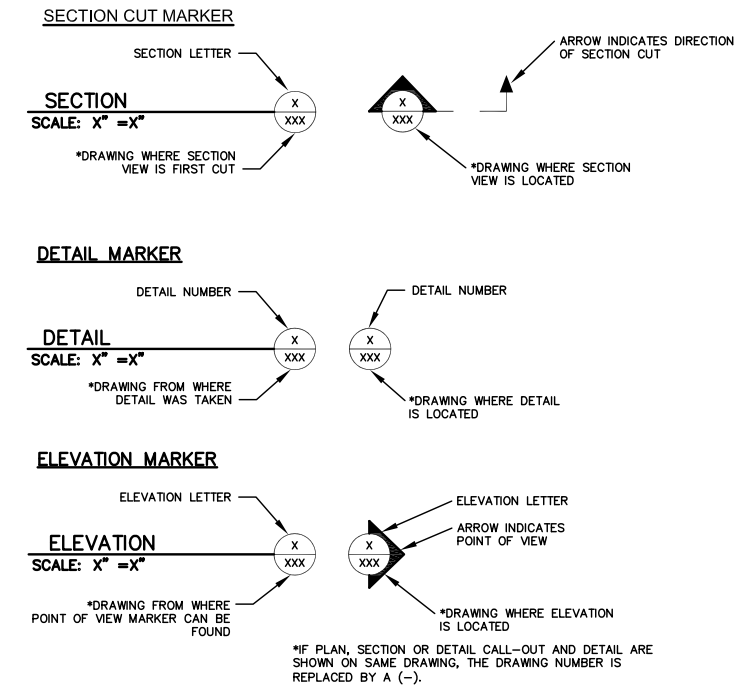
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SYMBOLOLOGY

EXISTING	DESCRIPTION	PROPOSED
	EMBANKMENT SLOPE	
	CONTOUR BASELINE	
	CENTERLINE	
	FLOW LINE	
	PROPERTY LINE	
	ELECTRICITY	
	GAS MAIN	
	GAS SERVICE	
	SEWER	
	HIGH PRESSURE GAS	
	FIBER OPTIC	
	TELEPHONE	
	OVERHEAD WRES	
	WATER	
	DROP INLET	
	CLEAN OUT	
	HYDRANT	
	MANHOLE	
	WATER METER	
	LIGHT STANDARD	
	UTILITY POLE	
	WATER VALVE	
	EASEMENT	
	WORK EASEMENT	
	DRAIN PIPE ≤ 18"	
	DRAIN PIPE > 18"	
	EDGE PAVEMENT	
	R/W LINE	
	TOP BACK OF CURB	
	SIDEWALK	

	DRAINAGE DITCH FLOW
	CUT LINE
	VEGETATION
	SURVEY MONUMENT
	ROADWAY CORE SAMPLE LOCATION

	EASEMENTS		UNDISTURBED SOIL
	CONCRETE		DUMPED RIPRAP
	AGGREGATE BASE		CRUSHED AGGREGATE
	NATIVE BACKFILL		HYDROSEED



GENERAL NOTES

- ALL CONSTRUCTION WORK AND INSTALLATION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD CONSTRUCTION SPECIFICATIONS AND ALL OF ITS DRAWINGS, DATED SEPTEMBER 2015. ALL WORK IS SUBJECT TO THE APPROVAL OF THE ENGINEER.
- TOPOGRAPHIC MAPPING IS BASED UPON SURVEY DATED JULY 2019. AERIAL PHOTO TAKEN IN 2011.
- THE BASELINES SHOWN ON THE DRAWINGS ARE THE CONSTRUCTION REFERENCE LINE ESTABLISHED FOR THIS PROJECT. THE CITY SHALL ESTABLISH, THE BASELINES AND ANY OFFSETS REQUIRED, UTILIZING THE REFERENCED MONUMENTATION.
- NOTIFICATION OF UNDERGROUND SERVICE ALERT (U.S.A.) IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING ALL EXCAVATION WORK.
- UTILITY INFORMATION WAS COMPILED FROM DATA PROVIDED BY THE UTILITY OWNERS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL EXPOSE AND VERIFY THE ACTUAL LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE ELEVATION AND LOCATION DATA SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL ANTICIPATE, AND ALLOW TIME FOR, NECESSARY RELOCATIONS. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS.
- UTILITY RELOCATION REQUIRED FOR THE CONSTRUCTION OF THESE FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
- TEMPORARY OR PERMANENT RELOCATION OR ALTERATION OF UTILITIES REQUESTED BY THE CONTRACTOR FOR THEIR CONVENIENCE SHALL BE THEIR RESPONSIBILITY AND THEY SHALL MAKE ALL ARRANGEMENTS AND BEAR ALL COSTS.
- FOR ALL TRENCH EXCAVATIONS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM CAL OSHA (2424 ARDEN WAY, STE 115, (916) 263-2800) PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK AND TO PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
- PIPE TIE-INS AT EXISTING STRUCTURES SHALL BE MADE USING RESILIENT CONNECTORS PER ASTM STANDARD C923-96-02.
- ALL MANHOLE RIM AND INLET ELEVATIONS ARE APPROXIMATE AND SHOWN FOR BID ESTIMATION ONLY. MANHOLE RIMS AND DRAIN INLET FRAMES SHALL BE SET TO MATCH EXISTING PROFILES UNLESS NOTED OTHERWISE.
- ALL PAVEMENT MARKINGS DISTURBED SHALL BE REPLACED, TO THE SATISFACTION OF THE CITY, AT NO EXTRA COST.

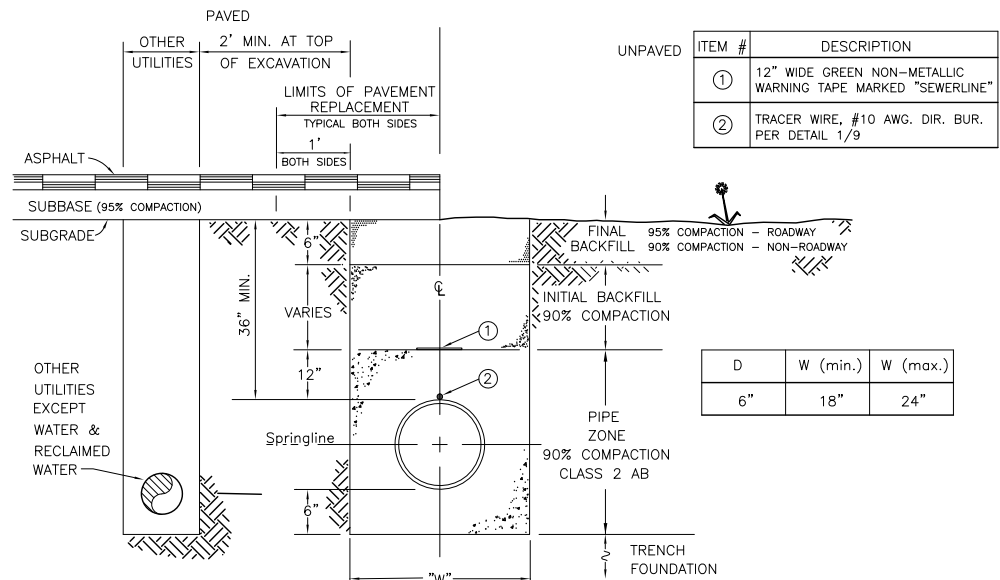
ABBREVIATIONS

(A) ABANDON	LF LINEAL FOOT/FEET
AB ASBESTOS CEMENT PIPE	LIP LIP OF GUTTER
AC ASPHALT CONCRETE	LPB LIGHT PULL BOX
ACP ADDNL	LS LUMP SUM
ADPN ASSESSOR PARCEL NUMBER	LT LEFT
APPROX APPROXIMATELY	MANUF MANUFACTURER
ASB AGGREGATE SUBBASE	MH MANHOLE
BC BEGIN CURVE	MIN MINIMUM
B or BL BASE LINE	(N) NEW
BM BENCH MARK	NTS NOT TO SCALE
CAP CORRUGATED ALUMINUM PIPE	OC ON CENTER
CC CENTER TO CENTER	(P) PROPOSED
CIP CAST-IN-PLACE	PCC POINT OF CHANGE OF CURVATURE
CIPP CURED-IN-PLACE PIPE	PL PROPERTY LINE
C&G CURB AND GUTTER	PI POINT OF INTERSECTION
CJ COLD JOINT	POB POINT OF BEGINNING
CL CENTER LINE	POE POINT OF ENDING
CLS CLASS	PRC POINT OF REVERSE CURVATURE
CLR CLEAR	PP POWER POLE
CMP CORRUGATED METAL PIPE	PNT POINT
CO CLEAN OUT	PROP PROPOSED
CONC CONCRETE	PUE PUBLIC UTILITY EASEMENT
CONST CONSTRUCT	PVC POLYVINYL CHLORIDE PIPE
CONST'N CONSTRUCTION	PW POTABLE WATER
CONT CONTINUOUS	(R) REMOVE
CP NON REINFORCED CONCRETE PIPE	r RADIUS
CSP CORRUGATED STEEL PIPE	RAP RIBBED ALUMINUM PIPE
CF CUBIC FOOT/FEET	RCP REINFORCED CONCRETE PIPE
CY CUBIC YARD/YARDS	RDWY ROADWAY
(D) DEMOLISH	REINFORCING REINFORCING
D/S DOWN STREAM	RL RESTRAINED JOINT LENGTH
DBL DOUBLE	R&R REMOVE AND REPLACE
DI DROP INLET	RSP RIBBED STEEL PIPE
DIA or Ø DIAMETER	RT RIGHT
DIP DUCTILE IRON PIPE	R/W RIGHT OF WAY
DRWY DRIVEWAY	S SANITARY SEWER
(E) EXISTING	SS SANITARY SEWER
E ELECTRICAL	SCO SANITARY SEWER CLEAN OUT
EA EACH	SSCO SANITARY SEWER CLEAN OUT
EBC END AND BEGIN CURVE	SD STORM DRAIN
EC END OF CURVE	SF SQUARE FOOT/FEET
EG EXISTING GRADE	SHT SHEET
EID EL DORADO IRRIGATION DISTRICT	SP SPECIAL PROVISIONS
E or EL ELEVATION	SPEC SPECIFICATION
E/P EDGE OF PAVEMENT	SRP STEEL RIBBED PIPE
ESMT EASEMENT	STA STATION
EXP EXPANSION	STD STANDARD
EW EACH WAY	SW SIDEWALK
FES FLARED END SECTION	T TANGENT
FG FINISH GRADE	TB TOP OF BANK
F or FL FLOW LINE	TBM TEMPORARY BENCH MARK
FO FIBER OPTICS	TBW TOP BACK OF WALK
FT FEET	THK THICK
FUT FUTURE	TOC TOP OF CURB
G GAS	TYP TYPICAL
GAR GARAGE	U/S UPSTREAM
GD GUTTER DRAIN	V DEPTH
GFL GUTTER FLOW LINE	VARIES VARIES
GRND GROUND	VOP VITRIFIED CLAY PIPE
HDPE HIGH DENSITY POLYETHYLENE PIPE	VERT VERTICAL
HGL HYDRAULIC GRADE LINE	WE TEMPORARY WORK EASEMENT
HORIZ HORIZONTAL	W WATER MAIN
INV INVERT	WM WATER MAIN
IS IRRIGATION SYSTEM	WS WATER SEAL
JP JOINT POLE	WSL WATER SURFACE ELEVATION
JT JOINT TRENCH	AT AT
	Δ DELTA/DIFFERENCE

- CONTRACTOR SHALL PROTECT ADJACENT IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO PAVEMENT, FROM INJURY OR DAMAGE. THE CONTRACTOR SHALL UTILIZE SUITABLE SAFEGUARDS TO PROTECT ADJACENT IMPROVEMENTS FROM INJURY OR DAMAGE. IF SUCH IMPROVEMENTS ARE INJURED OR DAMAGED BY REASON OF CONTRACTOR'S OPERATIONS, THEY SHALL BE REPLACED OR RESTORED TO A CONDITION AS GOOD AS WHEN THE CONTRACTOR ENTERED UPON THE WORK, AND ALL EXPENSES OF WHATEVER NATURE ARISING FROM SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR.
- THE EXISTING PAVEMENT ON THE PROJECT ROADS IS MORE THAN 5 YEARS OLD.
- PRECAST STRUCTURES MUST USE A BOOT OR INTEGRAL CONNECTION. THE MAXIMUM DEFLECTION OF A BOOT IS 7". IF THE DEFLECTION IS MORE THAN 7", THE UNIT MUST BE BUILT AS A CAST IN PLACE STRUCTURE.
- HMA PAVING THICKNESS TO BE 5" UNLESS OTHERWISE NOTED.
- EXISTING STATIC WATER MAIN PRESSURE MEASURED AT (E) FIRE HYDRANT LOCATED AT 2890 MOSQUITO ROAD AT 100 PSI ON AUGUST 24, 2017.

ALIGNMENT TABULATION

BASELINE NAME	POINT TYPE	R.E.Y. ENGINEERS SURVEY ALIGNMENT			
		BASELINE STA	NAME	STA	OFFSET
A	POB	1+85.1	MOSQUITO ROAD	10+45.7	4.77 LT
	PI	2+45.1	MOSQUITO ROAD	11+05.2	7.61 LT
	PI	4+08.2	MOSQUITO ROAD	12+66.9	7.17 LT
	PI	8+94.6	MOSQUITO ROAD	17+52.6	9.42 LT
	PI	10+09.4	MOSQUITO ROAD	18+65.9	12.60 LT
	PI	10+62.7	MOSQUITO ROAD	19+18.3	11.76 LT
	PI	10+71.5	MOSQUITO ROAD	19+18.4	2.96 LT
	PI	10+96.9	MOSQUITO ROAD	19+43.8	2.84 LT
	PI	11+06.0	MOSQUITO ROAD	19+44.1	11.89 LT
	PI	12+53.1	MOSQUITO ROAD	20+92.4	6.37 LT
	PI	13+03.0	MOSQUITO ROAD	21+44.4	1.06 LT
	PI	13+97.0	MOSQUITO ROAD	22+38.4	3.16 LT
	PI	14+97.0	MOSQUITO ROAD	23+38.3	2.57 LT
	PI	16+82.0	MOSQUITO ROAD	25+24.2	4.55 LT
	POE	19+00.0	MOSQUITO ROAD	27+40.9	5.76 LT
B	POB	1+00.0	MOSQUITO ROAD	18+61.1	11.04 RT
	PI	1+50.3	MOSQUITO ROAD	18+60.9	29.26 LT
	POE	1+83.5	MOSQUITO ROAD	18+55.2	61.85 LT



CONSTRUCTION NOTES

- PERMITS SHALL BE REQUIRED FOR ANY EXCAVATION OVER 5 FEET IN DEPTH, INTO WHICH A PERSON IS REQUIRED TO DESCEND OR ANY EXCAVATION LESS THAN 5 FEET IN DEPTH IN SOILS WHERE HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED AND INTO WHICH A PERSON IS REQUIRED TO DESCEND.
- PIPE TO BE LAID WITH LABEL UP ON EACH JOINT.
- ROAD REPAIR SHALL CONFORM TO ROAD AGENCY PERMIT CONDITIONS AND SPECIFICATIONS.
- COMPACTION IS RELATIVE TO CAL TRANS CALIF. TEST 231F OR ASTM 1557
- WHEN COUNTY OR CITY ENCROACHMENT PERMIT CONDITIONS ARE MORE RESTRICTIVE, THEY WILL TAKE PRECEDENCE.
- NO OTHER WET UTILITIES PERMITTED WITHIN 10' HORIZONTALLY AND/OR 1' VERTICALLY OF SEWER FACILITIES.
- INSTALL #10 TRACER WIRE ON ALL APPURTENANCES. INSTALL A PULL BOX AT EVERY 1000 FEET INTERVAL OF TRACING WIRE ALONG THE PIPE MAIN.
- PIPE ZONE BACKFILL SHALL BE CLASS 2 AB. INITIAL AND FINAL BACKFILL SECTIONS SHALL BE CLASS 2 AB. FINAL BACKFILL IN UNPAVED AREAS SHALL BE 12" NATIVE SOIL.

SEWER TRENCH SECTION

SCALE: NOT TO SCALE

1
5

PLANS FOR THE CONSTRUCTION OF

MOSQUITO ROAD STABILIZATION PROJECT PHASE - I

SYMBOLOLOGY, ABBREVIATIONS, GENERAL NOTES, AND ALIGNMENT TABULATION

CITY OF PLACERVILLE



CITY OF PLACERVILLE
ENGINEERING DEPARTMENT
3101 CENTER STREET
PLACERVILLE, CA 95667
(530) 642-5250



PROJECT ENGINEER
A.C. SCHIESTEL

APPROVED
REBECCA NEVES

DESIGNED
A.C.S.

DRAWN
A.C.S.

NO. REVISIONS

DATE

10/14/19

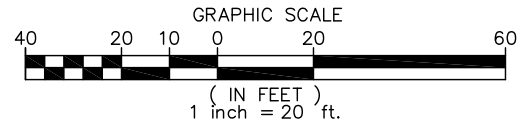
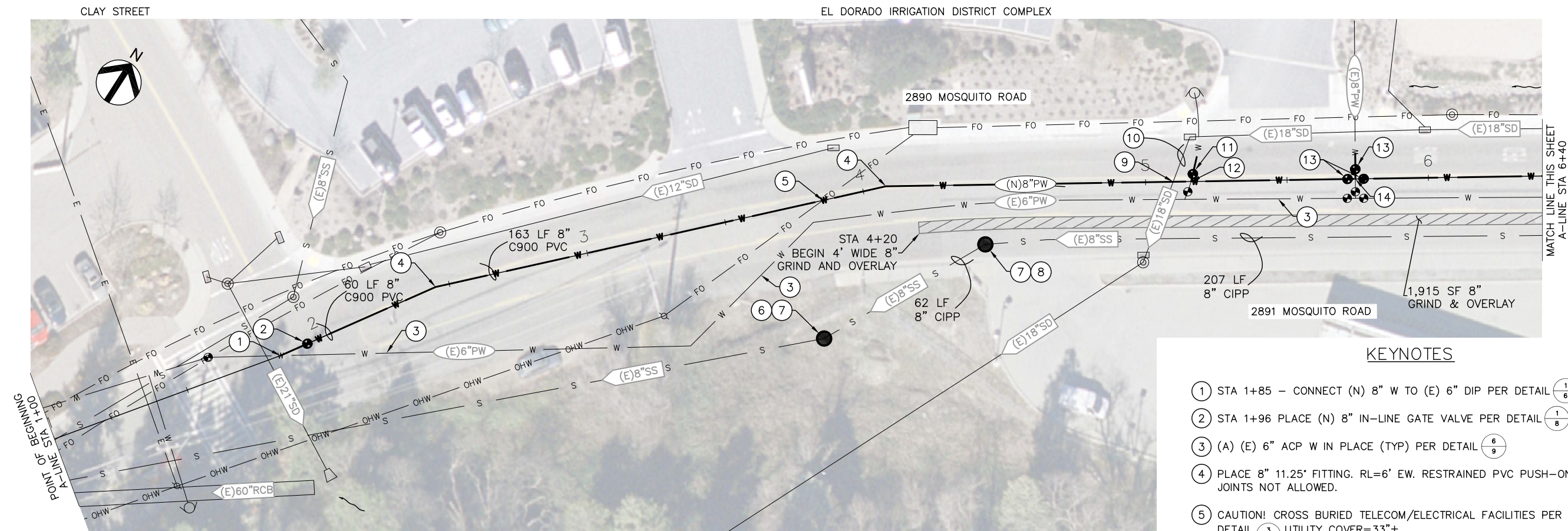
CONTRACT NO. 41819

GRID NO. N/A

FILE NO. N/A

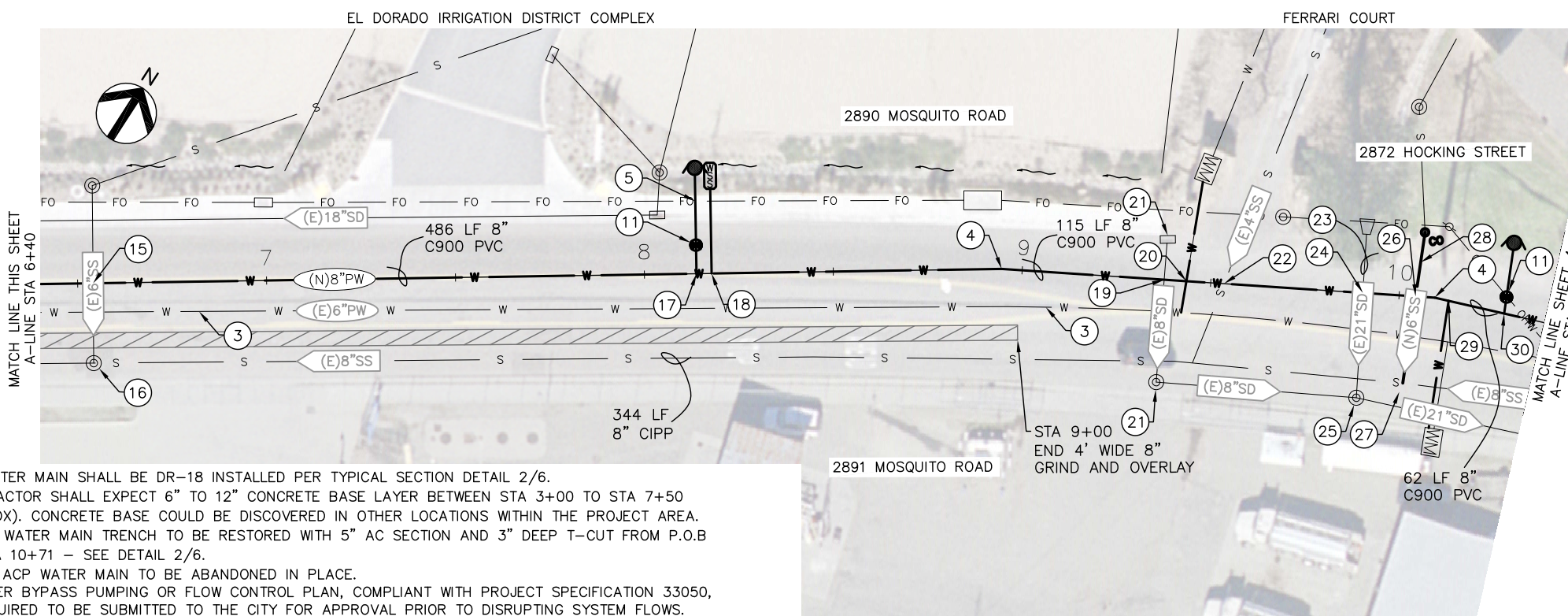
APPROVAL BY DATE

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MOSQUITO ROAD

- (27) INSTALL (N) CIP S MH PER EID STD DWG S09B & S09E (SEE APPENDIX C OF SPECS). (E) MAIN COVER APPROXIMATELY 4'. CONTRACTOR TO DETERMINE EXACT LOCATION OF WYE CONNECTION IN THE FIELD. SEE SHEET 5.
- (28) PLACE 38' OF (N) 6" S MAIN. SEE SHEET 5.



MOSQUITO ROAD

- (29) REPLACE (E) 1" SERVICE. CONNECT TO (E) METER AND (N) MAIN PER (4/8)
- (30) STA 10+28 -- INSTALL NEW DRY BARREL HYDRANT PER DETAIL (2/8)

KEYNOTES

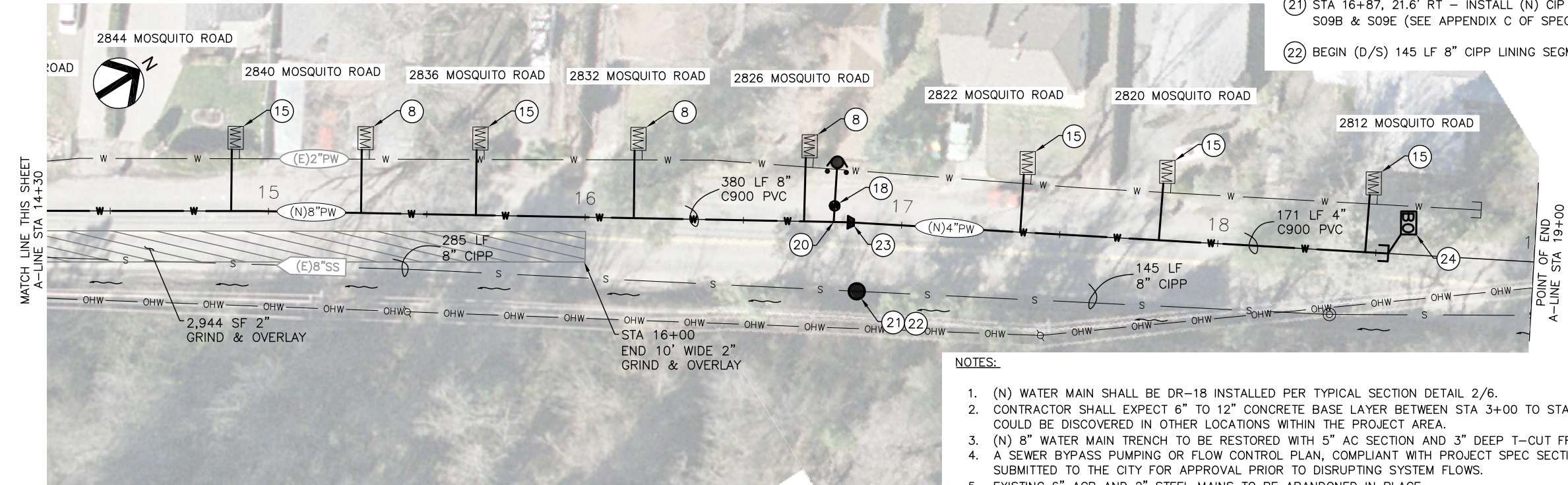
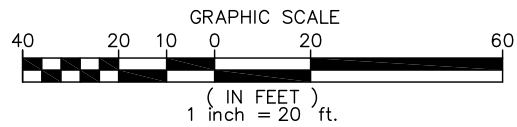
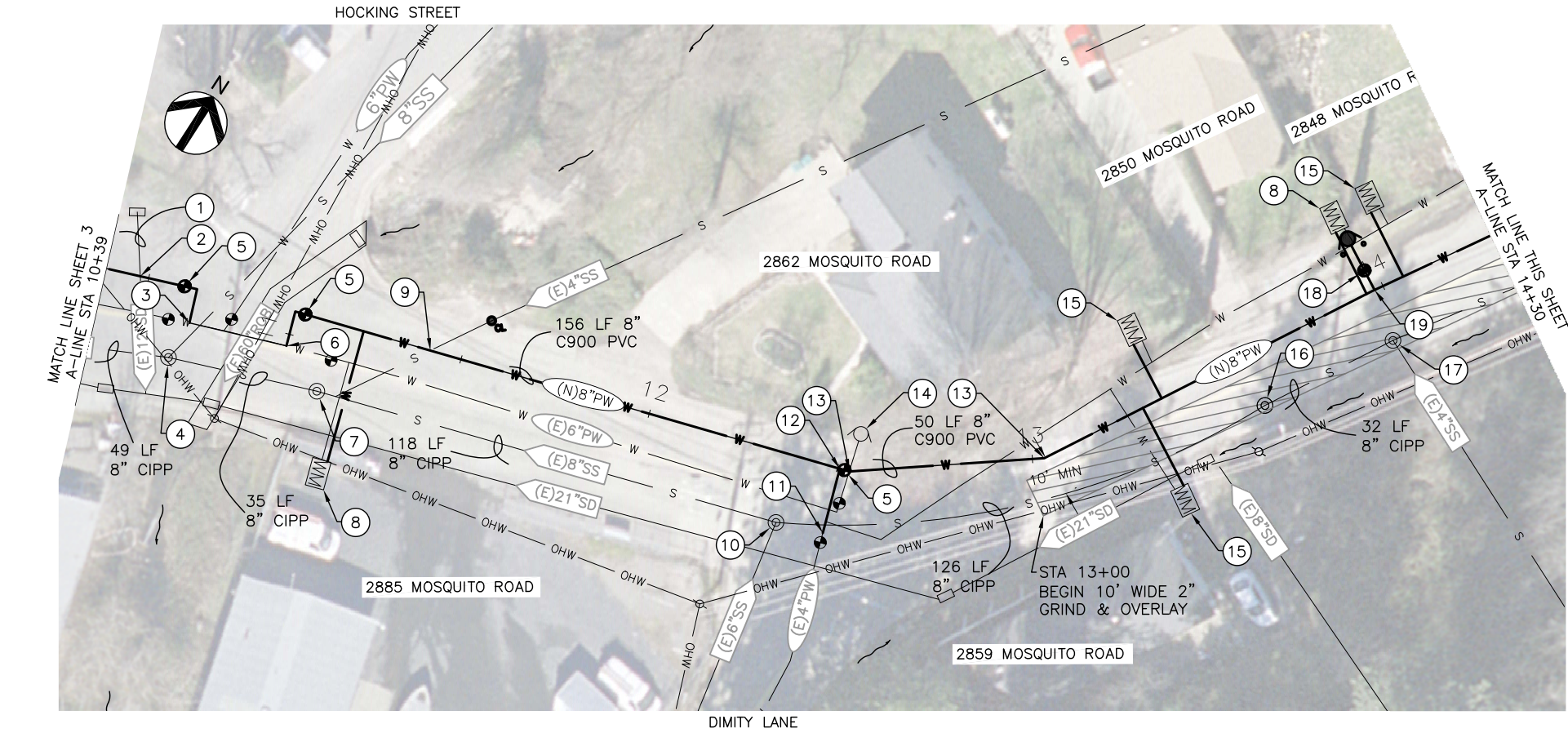
- (1) STA 1+85 -- CONNECT (N) 8" W TO (E) 6" DIP PER DETAIL (1/6)
- (2) STA 1+96 PLACE (N) 8" IN-LINE GATE VALVE PER DETAIL (1/8)
- (3) (A) (E) 6" ACP W IN PLACE (TYP) PER DETAIL (6/9)
- (4) PLACE 8" 11.25' FITTING. RL=6' EW. RESTRAINED PVC PUSH-ON JOINTS NOT ALLOWED.
- (5) CAUTION! CROSS BURIED TELECOM/ELECTRICAL FACILITIES PER DETAIL (3/6) UTILITY COVER=33"±
- (6) END (D/S) 62 LF 8" CIPP LINING SEGMENT.
- (7) INSTALL (N) CIP S MH PER EID STD DWG S09B & S09E (SEE APPENDIX C OF SPECS). <10' COVER TO (E) MAIN. CONTRACTOR TO DETERMINE EXACT LOCATION OF (E) BEND IN THE FIELD.
- (8) END (D/S) 207 LF 8" CIPP S LINING SEGMENT.
- (9) CROSS 18" CMP SD PIPE PER DETAIL (4/6)
- (10) PLACE 43 LF 18" CIPP CMP LINING.
- (11) PLACE (N) 6" GATE VALVE PER DETAIL (1/8)
- (12) STA 5+16 -- CONNECT TO (E) 6" FH CONNECTION PER DETAIL (4/6)
- (13) PLACE (N) 8" TEE GATE VALVE PER DETAIL (1/8)
- (14) STA 5+74 -- CONNECT TO (E) 8" EID SERVICE PER DETAIL (2/7)
- (15) MAINTAIN 1' MIN CLEAR OVER TOP OF (E) 6" S PER (1/5)
- (16) END (D/S) 344 LF 8" CIPP LINING SEGMENT.
- (17) STA 8+14 -- INSTALL (N) DRY BARREL HYDRANT PER DETAIL (2/8)
- (18) STA 8+18 -- INSTALL (N) WATER SAMPLING STATION SEE NOTE 10.
- (19) (E) 8" SD. REMOVE AND (A) AS NECESSARY. UTILITY COVER=21"±
- (20) REPLACE (E) 2" SERVICE TO (E) 2" METER PER DETAIL (3/8)
- (21) REMOVE (E) SD MH & DI PER SPEC. (A) SD PIPES IN PLACE PER (6/9)
- (22) MAINTAIN 1' MIN CLEAR OVER TOP OF (E) 4" S PER (1/10)
- (23) PLACE (D/S) 41 LF OF 21" CIPP CMP LINING.
- (24) CROSS (E) 21" CMP SD PER DETAIL (2/10)
- (25) PROTECT (E) SD MH IN PLACE.
- (26) MAINTAIN 1' MIN CLEAR OVER TOP OF (N) SEWER. SEE SHEET 5

NOTES:

1. (N) WATER MAIN SHALL BE DR-18 INSTALLED PER TYPICAL SECTION DETAIL 2/6.
2. CONTRACTOR SHALL EXPECT 6" TO 12" CONCRETE BASE LAYER BETWEEN STA 3+00 TO STA 7+50 (APPROX). CONCRETE BASE COULD BE DISCOVERED IN OTHER LOCATIONS WITHIN THE PROJECT AREA.
3. (N) 8" WATER MAIN TRENCH TO BE RESTORED WITH 5" AC SECTION AND 3" DEEP T-CUT FROM P.O.B TO STA 10+71 -- SEE DETAIL 2/6.
4. (E) 6" ACP WATER MAIN TO BE ABANDONED IN PLACE.
5. A SEWER BYPASS PUMPING OR FLOW CONTROL PLAN, COMPLIANT WITH PROJECT SPECIFICATION 33050, IS REQUIRED TO BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO DISRUPTING SYSTEM FLOWS.
6. COVER DEPTHS PROVIDED ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
7. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
8. CIPP LINING SEGMENTS TO BE INSTALLED PER PROJECT SPECIFICATION 33311.
9. ALL FINAL ROADWAY STRIPING SHALL BE TEMPORARY TAPE PER PROJECT SPEC SECTION 02575.
10. INSTALL (N) WATER QUALITY SAMPLING STATION PER THE KORALEEN SHOP DRAWING FOUND IN APPENDIX B OF THE PROJECT SPECIFICATIONS.

PLANS FOR THE CONSTRUCTION OF MOSQUITO ROAD STABILIZATION PROJECT PHASE - I	DATE	10/14/19		
	CONTRACT NO.	41819		
	GRID NO.	N/A		
	FILE NO.	N/A		
CITY OF PLACERVILLE ENGINEERING DEPARTMENT 3101 CENTER STREET PLACERVILLE, CA 95667 (530) 642-9260	APPROVED	REBECCA NEVES	DATE	10/14/19
	DESIGNED	A.C.S.		
	DRAWN	A.C.S.		
	NO.	REVISIONS		
CITY OF PLACERVILLE WATER MAIN REPLACEMENT AND SEWER IMPROVEMENTS	PLAN VIEW			
	DRAWING	C-1		
	SHEET: 3 OF 10			
	SCALE	HORZ: AS NOTED VERT: AS NOTED		

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MOSQUITO ROAD

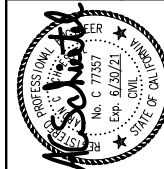
NOTES:

- (N) WATER MAIN SHALL BE DR-18 INSTALLED PER TYPICAL SECTION DETAIL 2/6.
- CONTRACTOR SHALL EXPECT 6" TO 12" CONCRETE BASE LAYER BETWEEN STA 3+00 TO STA 7+50 (APPROX). CONCRETE BASE COULD BE DISCOVERED IN OTHER LOCATIONS WITHIN THE PROJECT AREA.
- (N) 8" WATER MAIN TRENCH TO BE RESTORED WITH 5" AC SECTION AND 3" DEEP T-CUT FROM STA 10+71 TO P.O.E..
- A SEWER BYPASS PUMPING OR FLOW CONTROL PLAN, COMPLIANT WITH PROJECT SPEC SECTION 33050, IS REQUIRED TO BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO DISRUPTING SYSTEM FLOWS.
- EXISTING 6" ACP AND 2" STEEL MAINS TO BE ABANDONED IN PLACE.
- LOCATION OF WATER METERS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
- MAINTAIN 10' CLEAR (HORIZONTAL) BETWEEN WATER AND SEWER PIPES.
- COVER DEPTHS PROVIDED ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
- CIPP LINING SEGMENTS TO BE INSTALLED PER PROJECT SPECIFICATION 33311.
- ALL FINAL ROADWAY STRIPING SHALL BE TEMPORARY PER PROJECT SPEC SECTION 02575.

KEYNOTES

- PLACE 45 LF OF 12" CIPP CMP LINING.
- CROSS 12" CMP SD PIPE PER DETAIL $\frac{3}{10}$ UTILITY COVER=12"±.
- STA 10+71 – CONNECT (N) 8" W TO (E) 6" ACP PER DETAL $\frac{4}{7}$ COVER=36"±
- END (D/S) 35 LF 8" CIPP LINING SEGMENT.
- PLACE (N) 8" GATE VALVE PER DETAIL $\frac{1}{8}$
- STA 10+97 – CONNECT (N) W TO (E) 6" ACP PER DETAIL $\frac{4}{7}$ COVER=36"±.
- END (D/S) 118 LF 8" CIPP LINING SEGMENT.
- TYPE 1 METER REPLACEMENT – INSTALL (N) SERVICE, METER, RESIDENTIAL PRESSURE REGULATOR & TRAFFIC RATED METER BOX PER DETAIL $\frac{4}{9}$
- MAINTAIN 1' MIN CLEAR OVER TOP OF (E) 4" S PER $\frac{4}{10}$
- END (D/S) 126 LF 8" CIPP LINING SEGMENT.
- CONNECT 15' (N) 4" W TO (E) 4" W PER DETAIL $\frac{3}{7}$
- 8"x8"x4" TEE FITTING
- 8" 22.5' FITTING. RL=6' EW
- REMOVE (E) HYDRANT. PER DETAIL $\frac{1}{7}$ & $\frac{3}{7}$
- TYPE 2 METER REPLACEMENT – INSTALL (N) SERVICE, METER, RESIDENTIAL PRESSURE REGULATOR & TRAFFIC RATED BOX AND LID PER DETAIL $\frac{5}{9}$
- END (D/S) 32 LF 8" CIPP LINING SEGMENT.
- END (D/S) 285 LF 8" CIPP LINING SEGMENT.
- INSTALL 6" GATE VALVE PER $\frac{1}{8}$
- STA 13+98 – INSTALL NEW DRY BARREL HYDRANT PER DETAIL $\frac{2}{8}$ PLACE TWO NEW BOLLARDS PER $\frac{5}{7}$
- STA 16+79 – INSTALL NEW DRY BARREL HYDRANT PER DETAIL $\frac{2}{8}$ PLACE TWO NEW BOLLARDS PER $\frac{5}{7}$
- STA 16+87, 21.6' RT – INSTALL (N) CIP SEWER MANHOLE PER EID STD DWG S09B & S09E (SEE APPENDIX C OF SPECS). <10' COVER TO (E) MAIN.
- BEGIN (D/S) 145 LF 8" CIPP LINING SEGMENT.

APPROVED
REBECCA NEVES
DESIGNED
A.C.S.
DRAWN
A.C.S.
NO. REVISIONS



MOSQUITO ROAD STABILIZATION PROJECT PHASE - I

WATER MAIN REPLACEMENT AND
SEWER IMPROVEMENTS
CITY OF PLACERVILLE

PLAN VIEW

DRAWING
C-2

SHEET: 4 OF 10

SCALE
AS NOTED

VERT: AS NOTED

DATE 10/14/19

DATE 10/14/19

DATE 10/14/19

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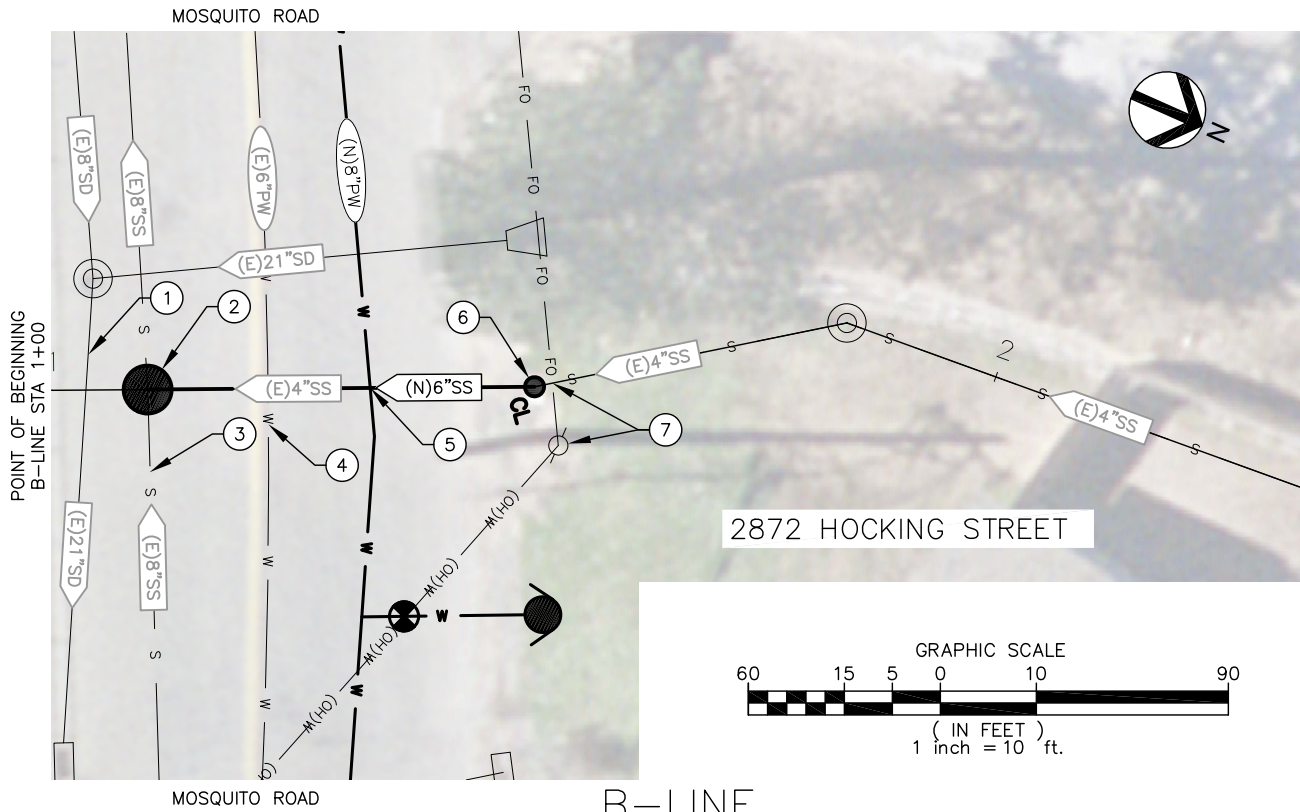
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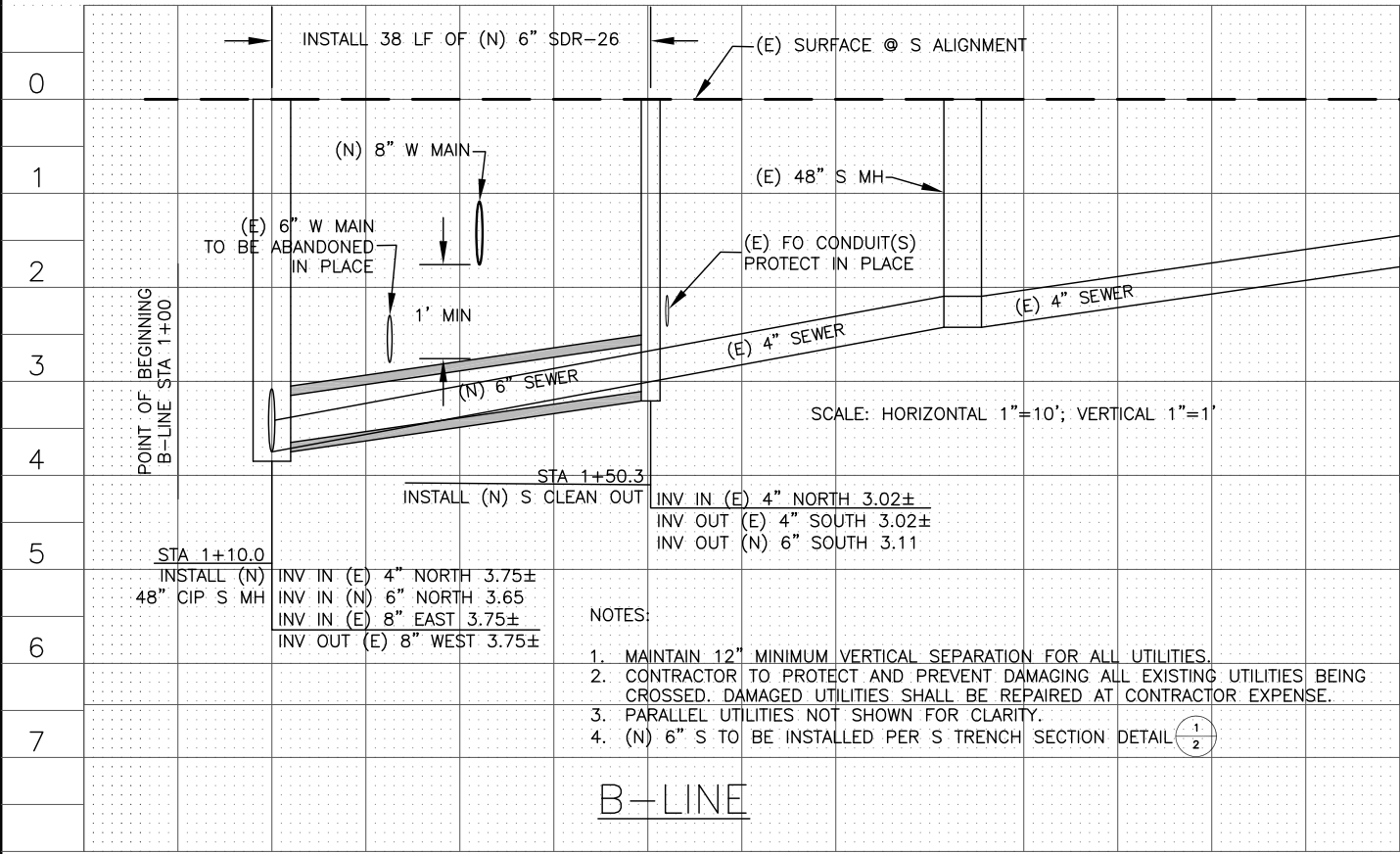
DATE 10/14/19



KEYNOTES

B-LINE

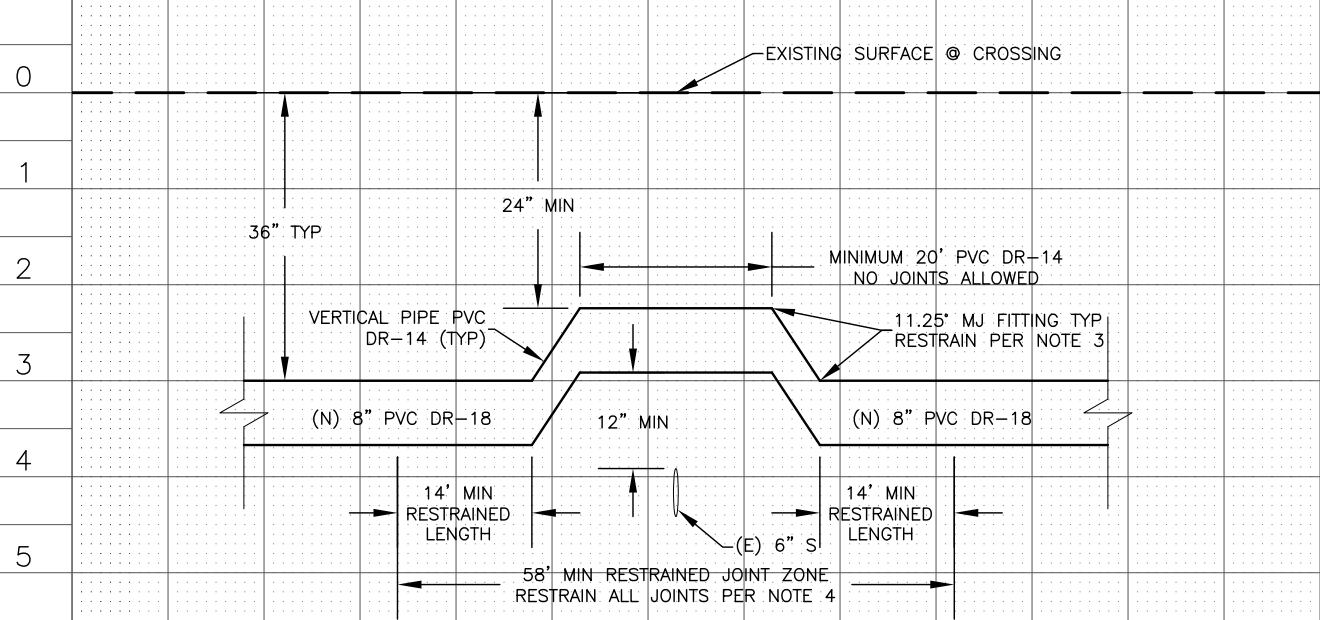
- (E) 21" SD TO BE PROTECTED IN PLACE.
- REPLACE (E) WYE WITH (N) 48" CIP MH PER EID STD DWG S09B & S09E (SEE APPENDIX C OF THE SPECS).
- PROTECT (N) 1" W SERVICE IN PLACE
- (E) 6" W TO BE ABANDONED AFTER (N) 8" W IS PLACED INTO SERVICE.
- PROTECT (N) 8" W MAIN IN PLACE. MAINTAIN 1' MIN CLEAR.
- INSTALL (N) CLEAN OUT PER EID STD DWG S08E AND SASD STD DWG LL-02 (SEE APPENDIX E OF THE SPECS).
- CAUTION! BURIED TELECOM/ELECTRICAL FACILITIES AND (E) JOINT POLE TO BE PROTECTED IN PLACE.



B-LINE

POINT OF ENDING
B-LINE STA 2+34

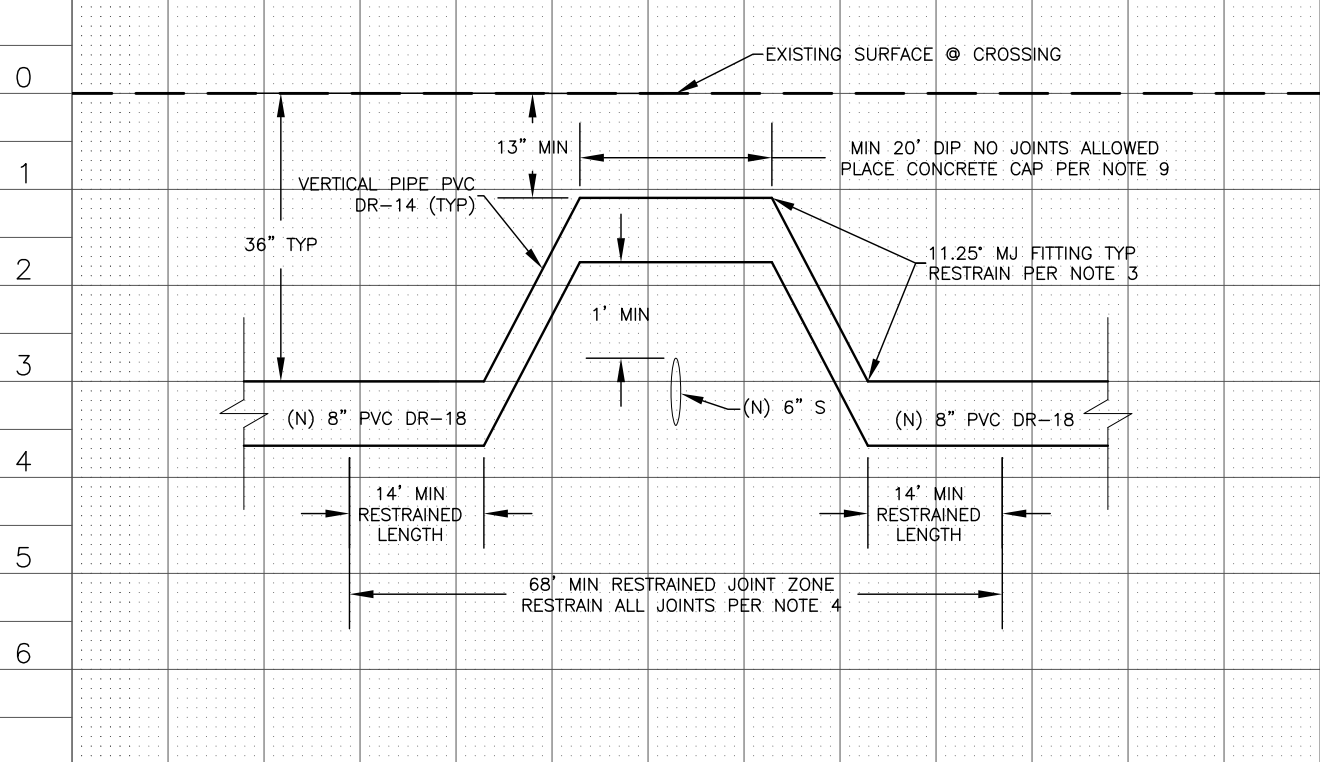
POINT OF BEGINNING
B-LINE STA 1+00



5+91 6+41 6+91

- NOTES:
- MAINTAIN 12" MINIMUM VERTICAL SEPARATION FOR ALL UTILITIES.
 - CONTRACTOR TO PROTECT AND PREVENT DAMAGING ALL EXISTING UTILITIES BEING CROSSED. DAMAGED UTILITIES SHALL BE REPAIRED AT CONTRACTOR EXPENSE.
 - NO JOINTS WITHIN 6 FEET OF FITTINGS ARE ALLOWED. ONLY MECHANICAL JOINTS ARE ALLOWED WITHIN RESTRAINED JOINT ZONE. USE MEGA LUG RESTRAINTS (OR EQUIVALENT) FOR ALL MJ FITTINGS. RESTRAINED PVC PUSH-ON JOINTS NOT ALLOWED. RESTRAINT HARNESS REQUIRED.
 - VERTICAL BEND THRUST BLOCKS NOT ALLOWED.
 - DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING ALLOWED IF APPROVED BY CITY ENGINEER.
 - UTILITY CROSSING TRENCH BACKFILL SHALL COMPLY WITH DETAIL (2/6)
 - (E) UTILITY DEPTHS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
 - (E) UTILITIES AT CROSSING SHALL BE POTHOLED BY THE CONTRACTOR TO CONFIRM 1' MINIMUM CLEARANCE WITH (N) W.
 - PLACE 8" THICK CLASS B CONCRETE CAP OVER C900 WITH LESS THAN 20" COVER. MAINTAIN 2" OF AB BETWEEN CROWN OF PIPE AND CONCRETE CAP.

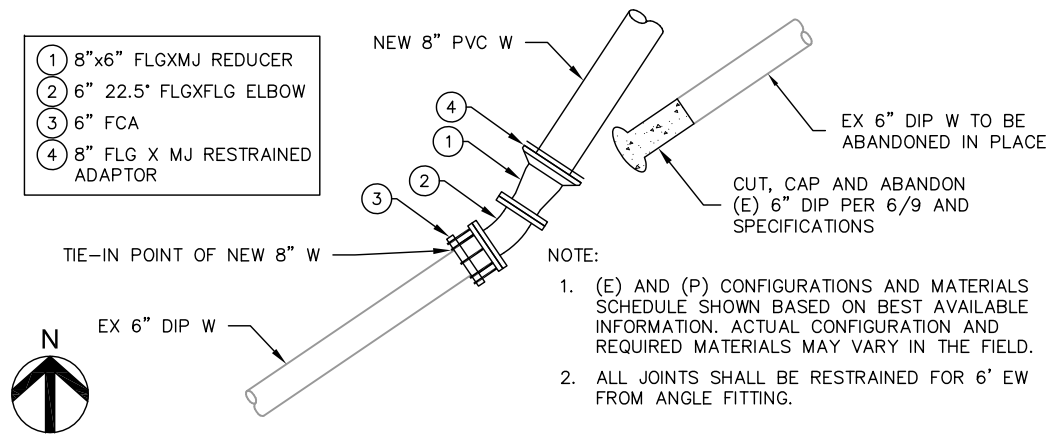
STA: 6+54 (A-LINE)
6" SEWER CROSSING
SCALE: HORIZONTAL: 1"=10'; VERTICAL: 1"=1'



9+41 9+91 10+41

STA: 10+04 (A-LINE)
6" SEWER MAIN CROSSING
SCALE: HORIZONTAL: 1"=10'; VERTICAL: 1"=1'

PLANS FOR THE CONSTRUCTION OF MOSQUITO ROAD STABILIZATION PROJECT PHASE - I	DATE 10/14/19	CONTRACT NO. 41819
	DESIGNED REBECCA NEVES	GRID NO. N/A
CITY OF PLACERVILLE ENGINEERING DEPARTMENT 3101 CENTER STREET PLACERVILLE, CA 95667 (530) 642-9260	DRAWN A.C.S.	FILE NO. N/A
	REVISIONS	
SEWER MAIN REPLACEMENT WATER MAIN CROSSING PROFILE DETAILS CITY OF PLACERVILLE	APPROVED A.C.S.	DATE 10/14/19
	PROJECT ENGINEER A.C. SCHIELTEL	
PLAN AND PROFILE	DRAWING S-1	SHEET: 5 OF 10
		SCALE AS NOTED
		VERT: AS NOTED



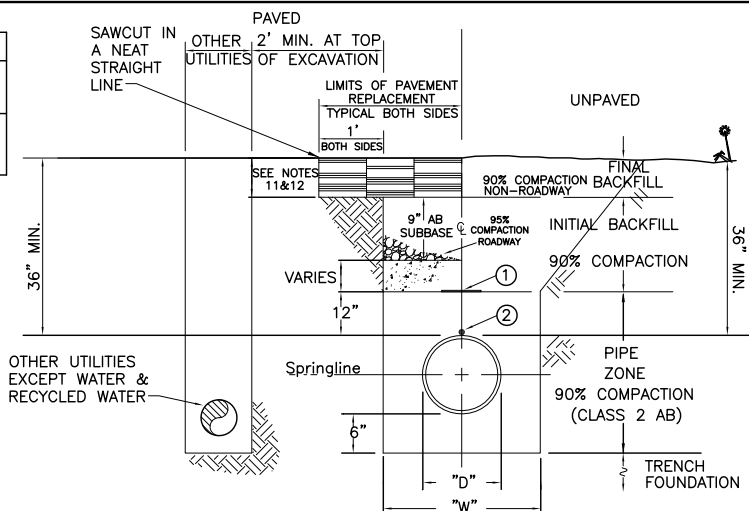
TIE-IN POINT DETAIL

SCALE: NTS

1
3

ITEM #	DESCRIPTION
①	12" WIDE BLUE NON-METALLIC WARNING TAPED MARKED "WATER"
②	TRACER WIRE, #10 AWG. DIR. BUR. PER DETAIL 1/9

TRENCH WIDTH TABLE		
PIPE SIZE (D)	TOTAL TRENCH WIDTH "W"	
	MIN	MAX
4"	17"	29"
6"	19"	31"
8"	21"	33"



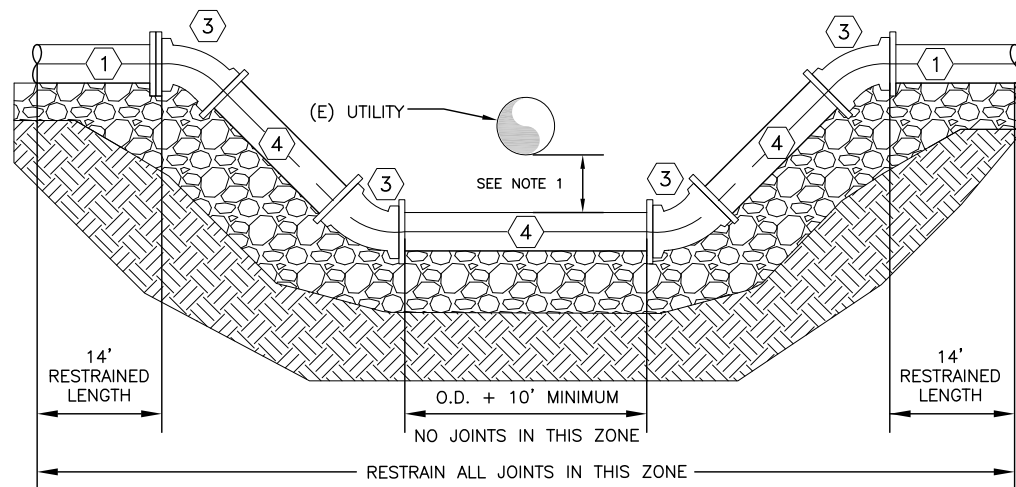
CONSTRUCTION NOTES

1. PERMITS SHALL BE REQUIRED FOR ANY EXCAVATION OVER 5 FEET IN DEPTH, INTO WHICH A PERSON IS REQUIRED TO DESCEND OR ANY EXCAVATION LESS THAN 5 FEET IN DEPTH IN SOILS WHERE HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED AND INTO WHICH A PERSON IS REQUIRED TO DESCEND.
2. PIPE TO BE LAID WITH LABEL UP ON EACH JOINT.
3. ROAD REPAIR SHALL CONFORM TO CITY PERMIT CONDITIONS AND SPECIFICATIONS.
4. COMPACTION IS RELATIVE TO ASTM 1557.
5. ENCROACHMENT PERMIT CONDITIONS TAKE PRECEDENCE WHEN MORE RESTRICTIVE.
6. SEWER UTILITIES ARE NOT PERMITTED WITHIN 10' HORIZONTALLY AND/OR 1' VERTICALLY OF WATER FACILITIES WITHOUT WRITTEN AUTHORIZATION.
7. RECYCLED WATER AND STORM DRAIN UTILITIES ARE NOT PERMITTED WITHIN 4' HORIZONTALLY AND/OR 1' VERTICALLY OF WATER FACILITIES.
8. PIPE SIZES BELOW 6" REQUIRE A MINIMUM TRENCH CLEARANCE OF 6" ON EACH SIDE OF PIPE.
9. PIPE ZONE EXCAVATION LIMITS ARE NOT TO BE EXCEEDED. PIPE ZONE TRENCH WALLS ARE TO BE VERTICAL, SEE EID STANDARD DRAWING W10A FOR UNSTABLE CONDITIONS.
10. INSTALL #10 TRACER WIRE ON ALL APPURTENANCES. INSTALL A PULL BOX AT EVERY 1000 FEET INTERVAL OF TRACING WIRE ALONG THE MAIN PIPE.
11. FROM P.O.B. TO STA 10+74: TRENCH SECTION SHALL BE A MINIMUM OF 5" THICK OF HMA OVER 9" OF AB. T-CUT SECTION SHALL CONSIST OF REMOVING AND REPLACING 3" AC THICKNESS 1' WIDE BOTH SIDES OF TRENCH OVER EXISTING SUBBASE WITHIN CITY ROW.
12. FROM STA 10+74 TO P.O.E. TRENCH SECTION SHALL BE A MINIMUM OF 2" THICK HMA OVER 9" OF AB. NO T-CUT SHALL BE REQUIRED.
13. ASSUME UP TO 10" THICKNESS OF (E) AC PAVEMENT FOR CUTTING.
14. PIPE ZONE BACKFILL SHALL BE CLASS 2 AB. TRENCH SECTION BACKFILL SHALL BE CLASS 2 AB. WHERE UNDERMINING OR CRACKS OCCUR IN TRENCH WALL, CONTRACTOR WILL COLLAPSE OR FILL THESE AREAS WITH CLSM OR EQUIVALENT. FINAL BACKFILL IN UNPAVED AREAS SHALL BE 12" NATIVE SOIL.
15. CONTRACTOR TO STRIPE MOSQUITO ROAD USING TEMPORARY STRIPING (OVERLAY PROJECT TO FOLLOW).

TYPICAL WATER TRENCH SECTION

SCALE: NTS

2
3,4



WATER PIPELINE UTILITY CROSSING

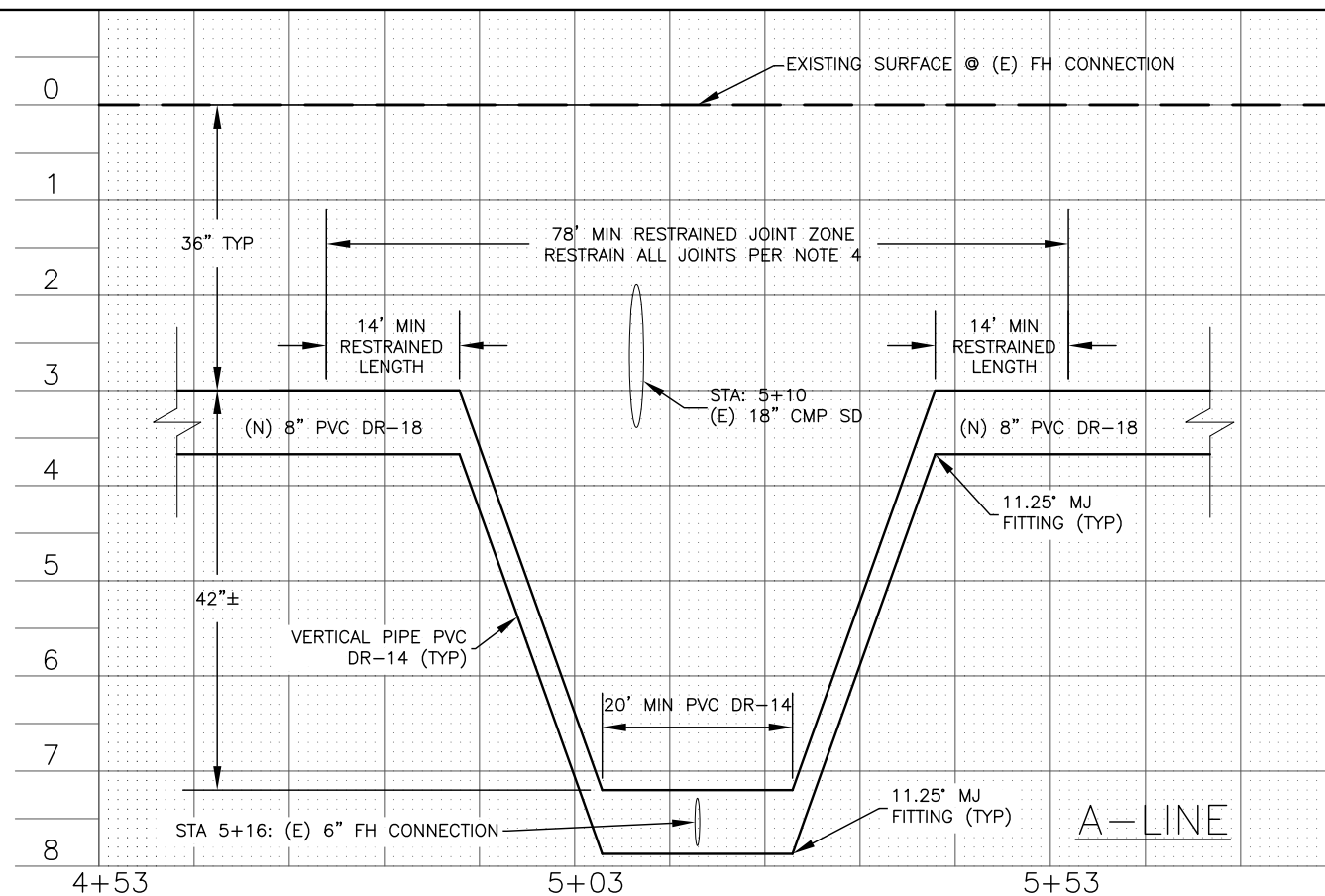
NOTES:

- 1) MAINTAIN 12" MINIMUM VERTICAL SEPARATION FOR ALL UTILITIES.
- 2) CONTRACTOR TO PROTECT AND PREVENT DAMAGING ALL EXISTING UTILITIES BEING CROSSED. DAMAGED UTILITIES SHALL BE REPAIRED AT CONTRACTOR EXPENSE.
- 3) NO JOINTS WITHIN 6 FEET OF FITTINGS ARE ALLOWED.
- 4) ONLY MECHANICAL JOINTS ARE ALLOWED WITHIN RESTRAINED JOINT ZONE. USE MEGA LUG RESTRAINTS (OR EQUIVALENT) FOR ALL MJ FITTINGS. RESTRAINED PVC PUSH-ON JOINTS NOT ALLOWED. RESTRAINT HARNESS REQUIRED.
- 5) UTILITY CROSSING TRENCH BACKFILL SHALL COMPLY WITH DETAIL 2 THIS SHEET.
- 6) (E) UTILITIES AT CROSSING SHALL BE POTHOLED BY THE CONTRACTOR TO CONFIRM 1' MINIMUM CLEARANCE WITH (N) W.


UTILITY CROSSING DETAIL

SCALE: NTS

3
3,4





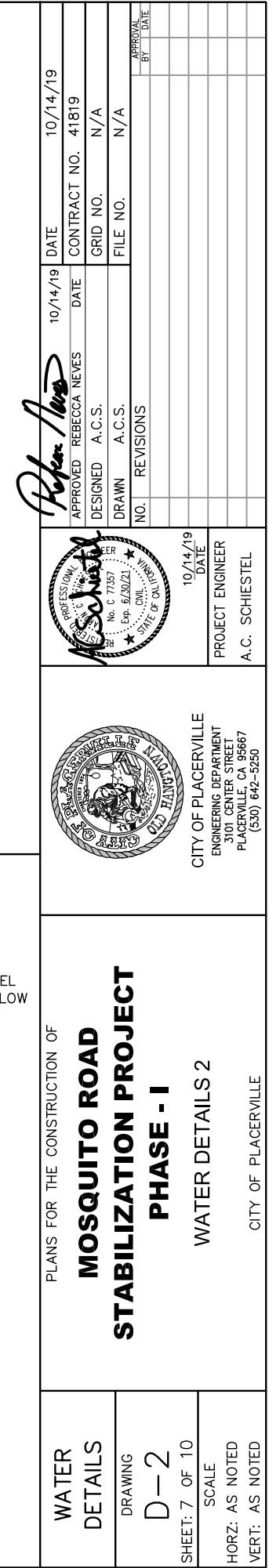
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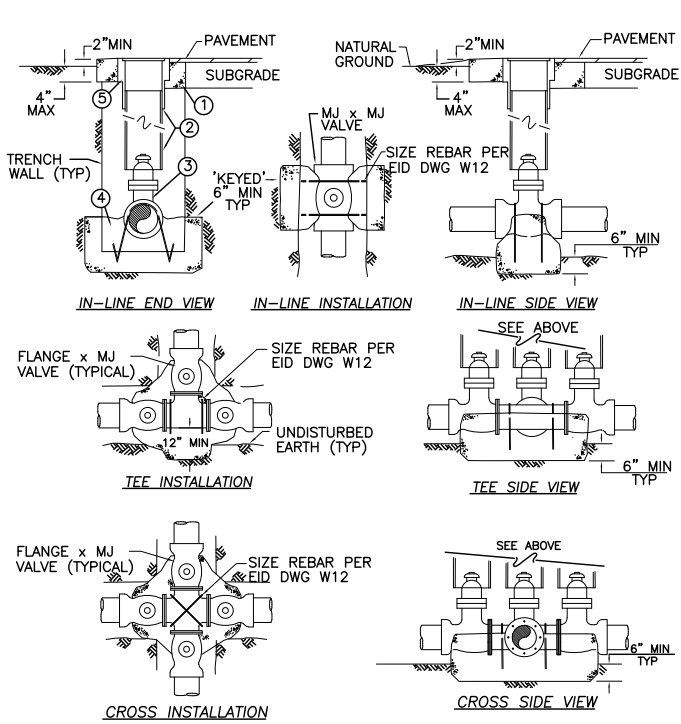
1. MAINTAIN 12" MINIMUM VERTICAL SEPARATION FOR ALL UTILITIES.
2. CONTRACTOR TO PROTECT AND PREVENT DAMAGING ALL EXISTING UTILITIES BEING CROSSED. DAMAGED UTILITIES SHALL BE REPAIRED AT CONTRACTOR EXPENSE.
3. CONNECT TO EXISTING FH LATERAL USING FLEX COUPLER. REFER TO DETAIL 
4. NO JOINTS WITHIN 6 FEET OF FITTINGS ARE ALLOWED.
5. ONLY MECHANICAL JOINTS ARE ALLOWED WITHIN RESTRAINED JOINT ZONE. USE MEGA LUG RESTRAINTS (OR EQUIVALENT) FOR ALL MJ FITTINGS. RESTRAINED PVC PUSH-ON JOINTS NOT ALLOWED. RESTRAINT HARNESS REQUIRED.
6. VERTICAL BEND THRUST BLOCKS NOT ALLOWED.
7. DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING ALLOWED IF APPROVED BY CITY ENGINEER.
8. UTILITY CROSSING TRENCH BACKFILL SHALL COMPLY WITH DETAIL 2 THIS SHEET.
9. (E) FH CONNECTION DEPTH IS APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

STA 4+63 TO STA 5+69 (A-LINE)
PROFILE @ (E) FIRE HYDRANT CONNECTION
SCALE: HORIZONTAL: 1"=10'; VERTICAL: 1"=1'

SCALE: HORIZONTAL: 1"=10'; VERTICAL: 1"=1'

WATER DETAILS	PLANS FOR THE CONSTRUCTION OF MOSQUITO ROAD STABILIZATION PROJECT PHASE - I				 CITY OF PLACERVILLE ENGINEERING DEPARTMENT 3101 CENTER STREET PLACERVILLE, CA 95667 (530) 642-5250	 PROJECT ENGINEER A.C. SCHIESTEL	<i>Robert H. Ward</i>	10/14/19	DATE	10/14/19	CONTRACT NO. 41819	
	DRAWING D-1 SHEET: 6 OF 10	WATER DETAILS 1		APPROVED REBECCA NEVES			DATE		DESIGNED A.C.S.	GRID NO. N/A		
SCALE HORZ: AS NOTED VERT: AS NOTED							DRAWN A.C.S.	FILE NO. N/A				
							NO. REVISIONS					
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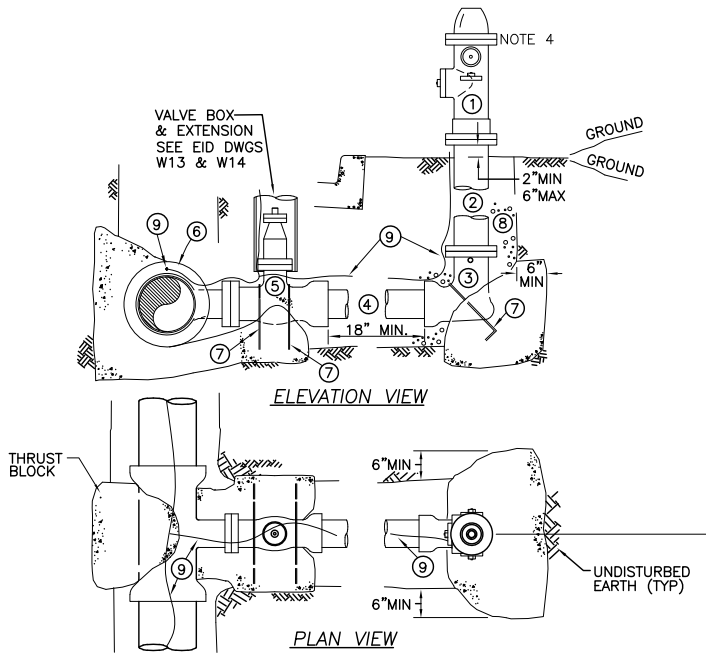




ITEM #	DESCRIPTION
①	6"x6" CONCRETE COLLAR WITH 2" HMA OVERLAY IF WITHIN PAVED AREA.
②	8" PVC-C900 PIPE RISER ONE PIECE
③	GATE VALVE
④	G5 CONCRETE VALVE BOX WITH IRON LID

CONSTRUCTION NOTES

- CENTER AND PLUM RISER OVER VALVE NUT.
- SHAFT EXTENSION REQUIRED WHERE TOP OF NUT IS MORE THAN 3' BELOW FINISH GROUND. SHAFT SHALL BE 1-1/4" DIA. WITH A SELF-CENTERING DEVICE. SEE EID DWG W14.



ITEM #	DESCRIPTION
①	FIRE HYDRANT BODY
②	FIRE HYDRANT BURY
③	HYDRANT SHOE, FLANGE OR MJ CONNECTION
④	6" PIPE, PVC C900 (DR-14)

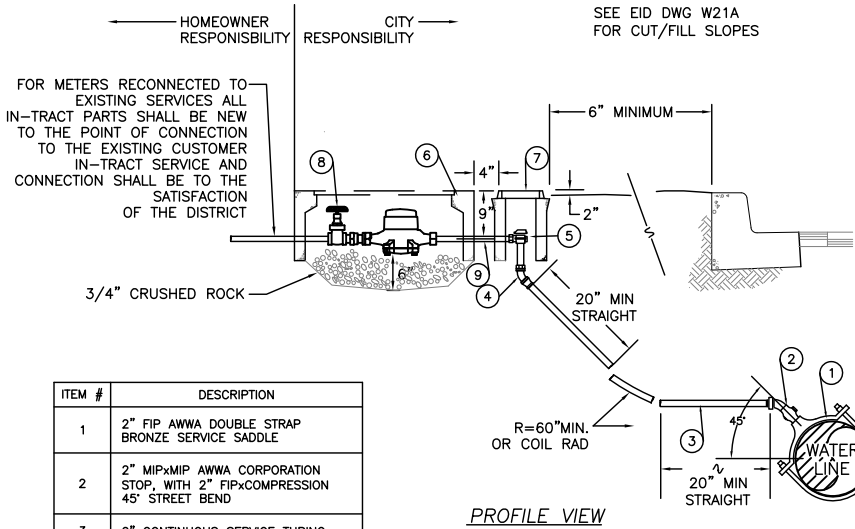
ITEM #	DESCRIPTION
⑤	6" GATE VALVE, FL x MJ
⑥	TEE, MJ x MJ x FL
⑦	No. 4 REBAR
⑧	3/4" MINUS DRAIN ROCK AS DIRECTED BY EID
⑨	#10 TRACER WIRE

CONSTRUCTION NOTES

- USE TAPPING SLEEVE AND VALVE ON EXISTING MAINS 8" AND LARGER.
- INSTALL BOLLARDS AS SHOWN IN PLANS.
- REFER TO EID STANDARD DWG W18 FOR FIRE HYDRANT LOCATIONS.
- FIRE HYDRANT SHALL BE PAINTED "FIRE ENGINE RED". SUBMIT COLOR SAMPLE TO CITY FOR APPROVAL.
- INSTALL BLUE REFLECTOR PER LOCAL FIRE DEPARTMENT STANDARDS.
- MAINTAIN 7.5' IN FRONT AND SIDES, AND 4' CLEARANCE BEHIND (N) HYDRANT.

TYPICAL FIRE HYDRANT INSTALLATION 2 3,4

SCALE: NTS



ITEM #	DESCRIPTION
1	2" FIP AWWA DOUBLE STRAP BRONZE SERVICE SADDLE
2	2" MIPxMIP AWWA CORPORATION STOP, WITH 2" FIPxCOMPRESSION 45° STREET BEND
3	2" CONTINUOUS SERVICE TUBING
4	2" MIPxCOMPRESSION 45° STREET BEND
5	2" FIPxFL BRONZE ANGLE METER STOP LOCKWING
6	METER BOX (27 1/2" x 18") AND PORTED LID
7	G5 VALVE BOX
8	2" BRASS GATE VALVE
9	12" BRASS NIPPLE

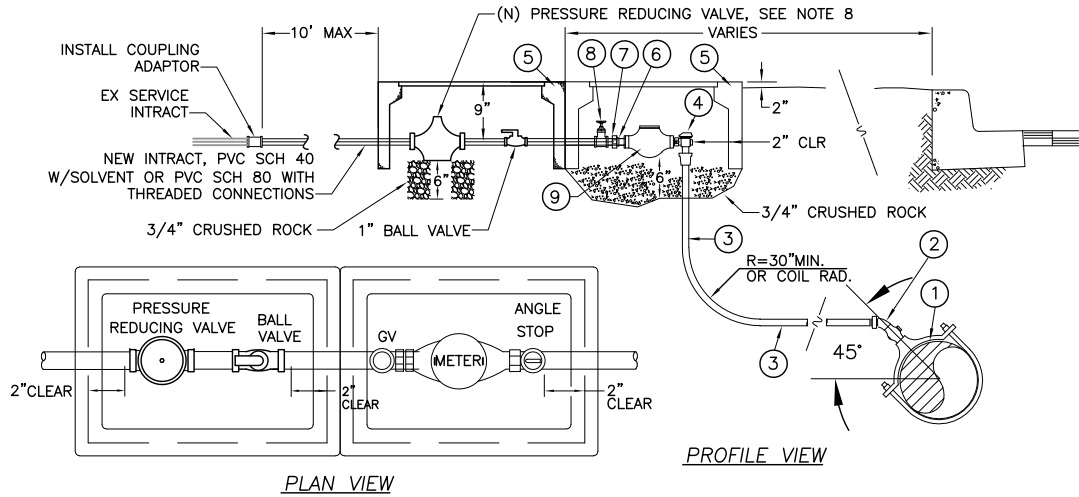
CONSTRUCTION NOTES

- ALL MATERIAL SHALL BE PER STANDARD DETAIL W08.
- SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 36" OF VALVE, JOINT OR FITTING.
- SET TOP OF METER BOX FLUSH WITH SIDEWALK OR AS SHOWN.
- ALL TAPS SHALL BE MADE WITH MACHINE GUIDE OR PILOT TAP.
- THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
- POLYETHYLENE TUBING AND COPPER TUBING SHALL BE CONTINUOUS WITH TRACER WIRE.
- ALL FITTINGS SHALL BE BRONZE.

2" SERVICE & METER BOX INSTALLATION FOR 1-1/2" & 2" METERS

2" SERVICE INSTALLTION FOR 2" METERS 3 3,4

SCALE: NTS



PRESSURE REDUCING VALVE/METER BOX PLAN CONSTRUCTION NOTES

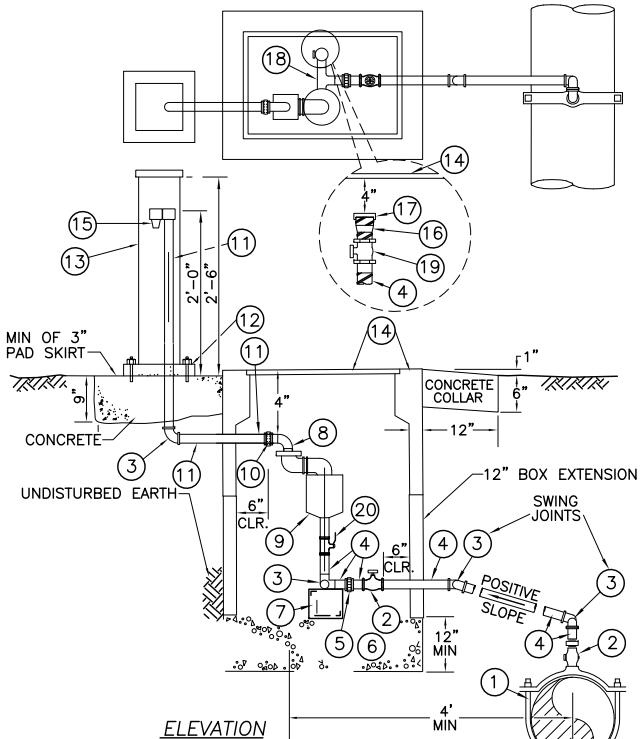
ITEM #	DESCRIPTION
①	BRONZE SERVICE SADDLE, 1" AWWA I.P.T.
②	1" CORPORATION STOP, AWWA I.P.T. x F.L.P. W/45° STREET ELBOW, COMPRESSION FITTING
③	1" BLUE P.E. TUBING, CTS CONTINUOUS WITH TRACER WIRE
④	1" ANGLE METER STOP, METER CPLG NUT x STAB TYPE END
⑤	B16 CONCRETE METER BOX W/ IRON PORTED LID
⑥	METER COUPLING
⑦	BRASS NIPPLE CLOSE
⑧	BRASS GATE VALVE
⑨	SENSUS SR11 METER (ALL BRONZE SEALED-REGISTER, POSITIVE DISPLACEMENT TYPE WITH MAGNETIC DRIVE WITH STRAINER.

CONSTRUCTION NOTES

- SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 36" OF VALVE, JOINT OR FITTING.
- SET TOP OF METER BOX FLUSH WITH SIDEWALK OR AS SHOWN.
- ALL TAPS SHALL BE MADE WITH MACHINE GUIDE OR PILOT TAP.
- THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
- P.E. TUBING SHALL BE CONTINUOUS WITH TRACER WIRE
- ALL FITTINGS SHALL BE BRONZE.
- REFER TO EID STANDARD DWG W21A FOR CUT/FILL SLOPES
- 1" WATTS, 1LF25AVB-Z3, BRASS PRESSURE REGULATOR
- 1" SERVICE BEDDING AND BACKFILL PER DETAIL 2/6.

1" SERVICE, PRESSURE REGULATOR & METER INSTALLATION FOR 1" METERS 4 4

SCALE: NTS



ITEM #	DESCRIPTION
①	BRASS SERVICE SADDLE
②	BRASS CORPORATION STOP AWWA I.P.T. x F.I.P.
③	FITTINGS SAME AS PIPE MATERIAL
④	SCH. 40 BRASS, DOUBLE WRAPPED WITH PVC TAPE
⑤	BRASS UNION
⑥	3/4" CLEAN DRAIN ROCK
⑦	SUPPORT BLOCK, BRICK
⑧	STREET ELBOW
⑨	COMBINATION AIR VALVE UNLESS OTHERWISE SPECIFIED ON PLANS
⑩	UNION PVC
⑪	PVC SCH. 80
⑫	ENCLOSURE ANCHORED IN CONC. W/4 HOLLOW BOLTS
⑬	PLACER WATER WORKS MODEL PM/AV32M ENCLOSURE-BLUE
⑭	CONCRETE BOX W/ STEEL LID, SEE NOTE 6
⑮	VENT W/ 20-MESH S.S. SCREEN
⑯	2"NPT x 2-1/2"HOSE THREAD MALE x MALE REDUCER
⑰	2-1/2" HOSE THREAD CAP
⑱	BRASS TEE
⑲	2" CURB STOP W/ LOCKWING- FIP x FIP
⑳	2" BALL VALVE N.P.T. x N.P.T.

CONSTRUCTION NOTES

- SIZE OF PIPING SHALL MATCH SIZE OF AIR VALVE.
- ENGINEER TO SPECIFY TYPE & SIZE OF VALVE.
- AIR VALVES LARGER THAN 2" SHALL BE BY SPECIAL DESIGN.
- AIR VALVE SHALL BE PLACED OUTSIDE OF TRAFFIC AREAS.
- CENTER VALVE IN LONGITUDINAL DIRECTION IN BOX.
- CHRISTY B40 AND 12" EXTENSION FOR 2" ARV.
- SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 36" OF VALVE, JOINT OR FITTING

2" AIR VALVE & 2" BLOW OFF ASSEMBLY 5 4

SCALE: NTS

WATER DETAILS	DATE	10/14/19	DATE	10/14/19
	CONTRACT NO.	41819	DESIGNED	REBECCA NEVES
	GRID NO.	N/A	DRAWN	A.C.S.
	FILE NO.	N/A	NO. REVISIONS	
DRAWING	D-3	SHEET: 8 OF 10		
SCALE		HORIZ: AS NOTED		
VERT: AS NOTED		CITY OF PLACERVILLE		

PLANS FOR THE CONSTRUCTION OF

MOSQUITO ROAD STABILIZATION PROJECT

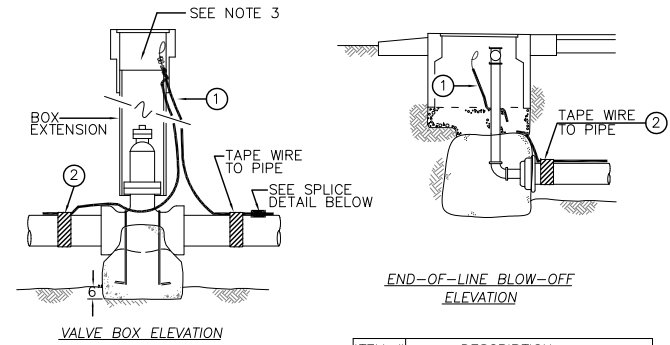
PHASE - I

WATER DETAILS 3

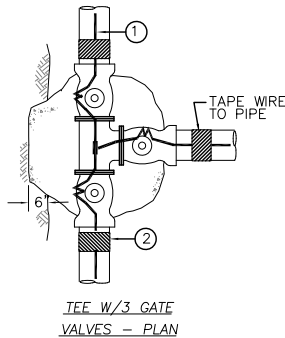
CITY OF PLACERVILLE

APPROVED BY: *Rebecca Neves*

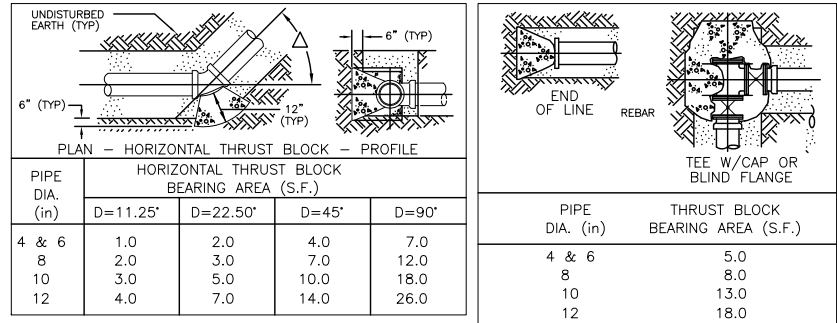
PROJECT ENGINEER: A.C. SCHIESTEL



ITEM #	DESCRIPTION
①	#10 SOLID A.W.G. COPPER TRACER WIRE (DIR. BUR.) WITH THERMO-PLASTIC INSULATION. PLACE ON OUTSIDE OF RISER
②	WRAP TAPE



TRACER WIRE DETAIL ①
SCALE: NTS TYP

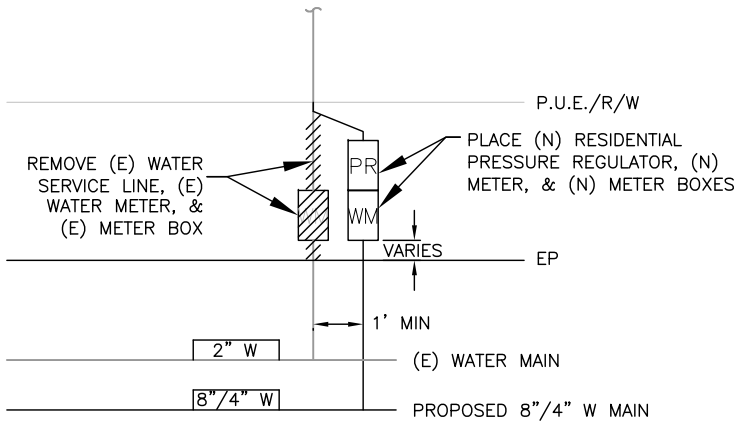


REBAR SIZES (HORIZONTAL THRUST ONLY)	
PIPE SIZE	REBAR
UP TO 10"	#4
12"	#5

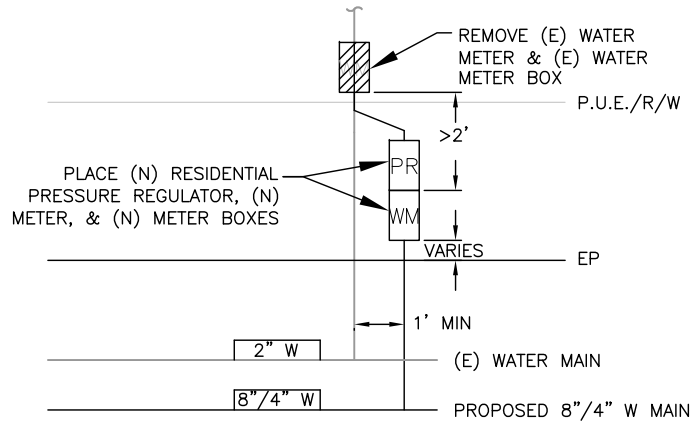
- NOTES:
- THRUST BLOCK DESIGN IS BASED ON TEST PRESSURE=200psi, SOIL BEARING PRESSURE=1500lbs/SF. INSTALLATIONS USING HIGHER PRESSURE OR LOWER SOIL BEARING PRESSURE SHALL BE ADJUSTED ACCORDINGLY, AND SUBMITTED FOR APPROVAL BY ENGINEERING DEPARTMENT.
 - THRUST BLOCKS SHALL BE CONSTRUCTED OF CALTRANS CLASS "B" CONCRETE.
 - THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 - JOINTS, NUTS AND BOLTS SHALL BE KEPT CLEAR OF CONCRETE AND BE ABLE TO BE OPERATED WITHOUT DISTURBING THRUST BLOCK(S).
 - REBAR SHALL BE SHAPED WITH 90° BEND AT END, AND MINIMUM OF 3" CLEARANCE FROM SOIL.
 - COAT EXPOSED REBAR WITH 80 MILS OF COLD-APPLIED BITUMASTIC WATER PROOFING COMPOUND. WRAP EXTERIOR OF VALVE AND ACTUATOR WITH 8 MIL POLYETHYLENE SHEETING AND TAPE PER EID SPECIFICATION.
 - ALL REBAR SHALL BE GRADE 60 STEEL.

THRUST BLOCK DETAIL (TYP) ②
SCALE: NTS TYP

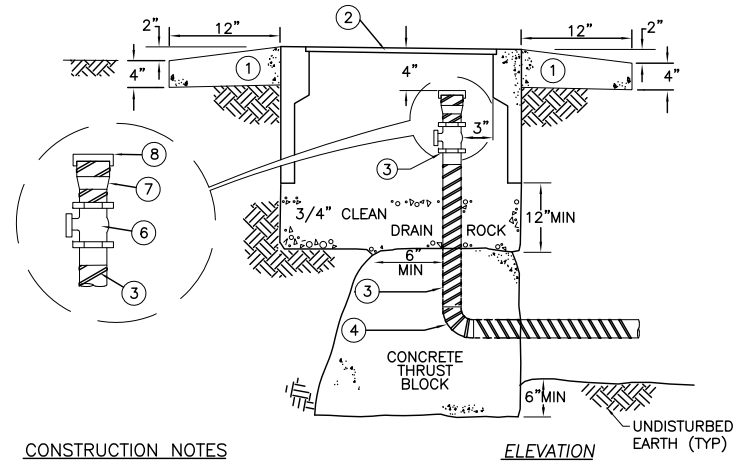
- NOTES:
- METER AND SERVICE LINE SHALL BE 1" UNLESS OTHERWISE NOTED.
 - SERVICE LINE, SERVICE SADDLE, AND COUPLINGS SHALL BE PER DETAIL 4/8.
 - (N) METERS, (N) PRESSURE REGULATORS, AND (N) METER BOXES SHALL BE PROVIDED BY THE CITY.
 - CAP EXISTING SERVICE AT EDGE OF PAVEMENT AND ABANDON IN PLACE.
 - REPLACE (E) LANDSCAPE IN AREA OF DISTURBANCE IN KIND.



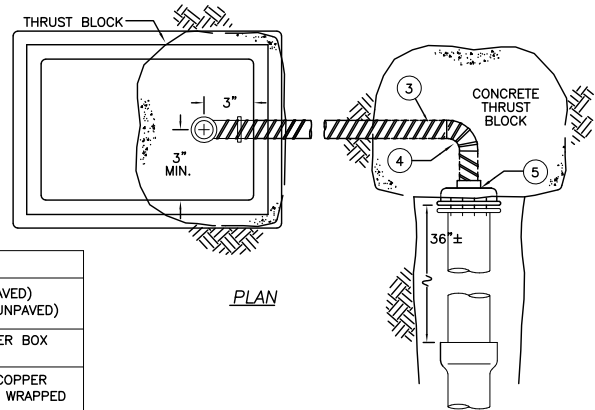
WATER SERVICE TYPE 1 ④
SCALE: NTS ④



WATER SERVICE TYPE 2 ⑤
SCALE: NTS ④

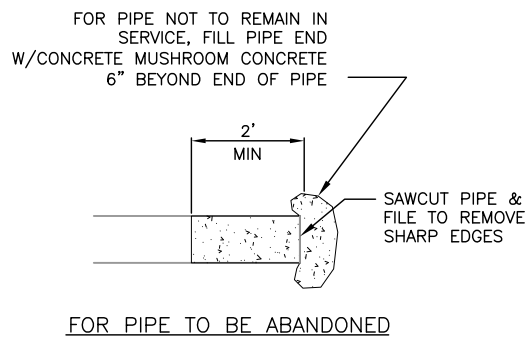


- CONSTRUCTION NOTES
- 2" BLOW-OFFS TO BE INSTALLED ON 8" MAINS AND SMALLER. FOR MAINS LARGER THAN 8" BLOW-OFF SIZE SHALL BE NOTED ON PLAN AND PROFILE.
 - BOXES FOR BLOW-OFF ASSEMBLY SHALL BE INSTALLED BEHIND CURB OR BACK OF WALK. BOXES CANNOT BE INSTALLED IN ROADWAY.



ITEM #	DESCRIPTION
①	6"x6" CONC. COLLAR (PAVED) 6"x12" CONC. COLLAR (UNPAVED)
②	PRECAST CONCRETE METER BOX WITH STEEL COVER
③	2" SCH. 40 BRASS OR COPPER TUBING TYPE K, DOUBLE WRAPPED WITH 10 MIL. PVC TAPE
④	2"-90° THREADED BRASS ELBOW
⑤	M.J. TAPPED CAP
⑥	CURB STOP W/ LOCKWING-FIP x FIP
⑦	2" NPT x 2-1/2" HOSE THREAD MALE x MALE REDUCER
⑧	2-1/2" HOSE THREAD CAP

2" DEAD-END BLOWOFF DETAIL ③
SCALE: NTS ④



TYPICAL PIPE CAPPING DETAIL ⑥
SCALE: NTS TYP

DATE	10/14/19	CONTRACT NO.	41819
APPROVED	REBECCA NEVES	GRID NO.	N/A
DESIGNED	A.C.S.	FILE NO.	N/A
DRAWN	A.C.S.	NO. REVISIONS	
APPROVAL BY			
DATE			
DATE	10/14/19	DATE	
PROJECT ENGINEER	A.C. SCHIESTEL		

CITY OF PLACERVILLE
ENGINEERING DEPARTMENT
3101 CENTER STREET
PLACERVILLE, CA 95667
(530) 642-9250

PLANS FOR THE CONSTRUCTION OF

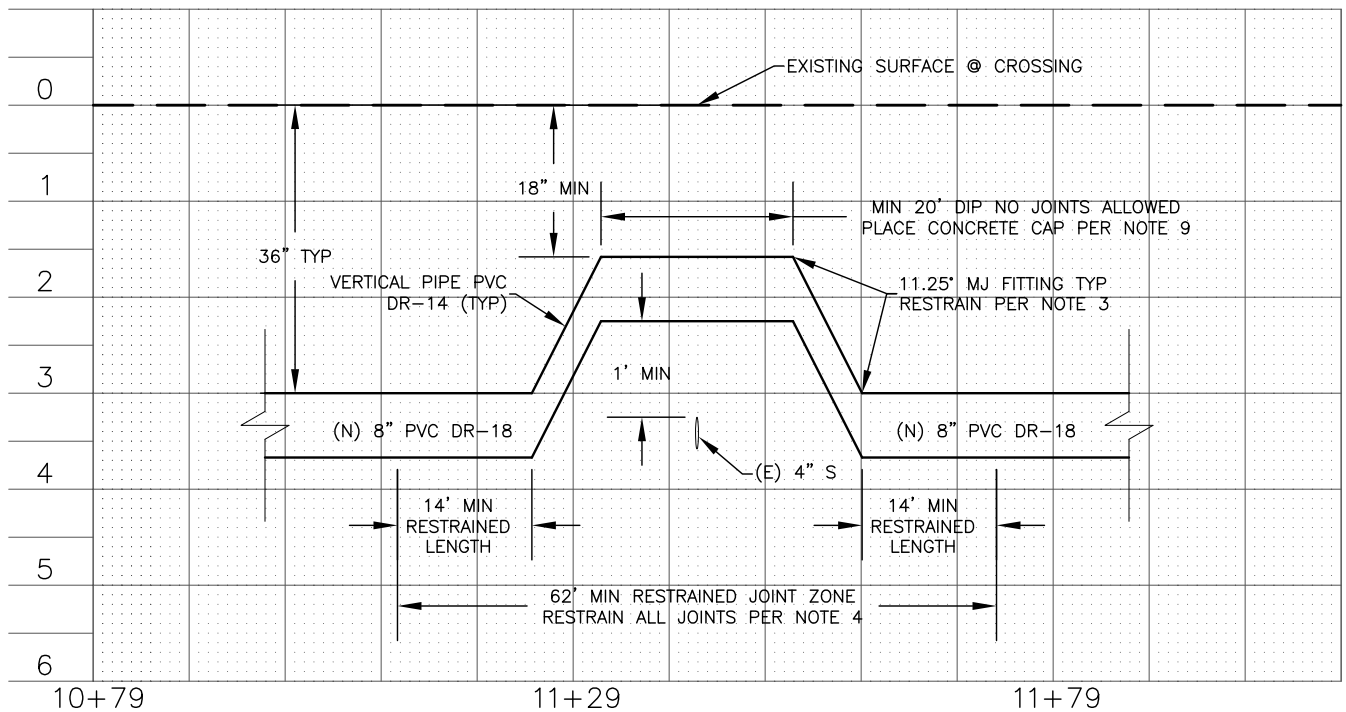
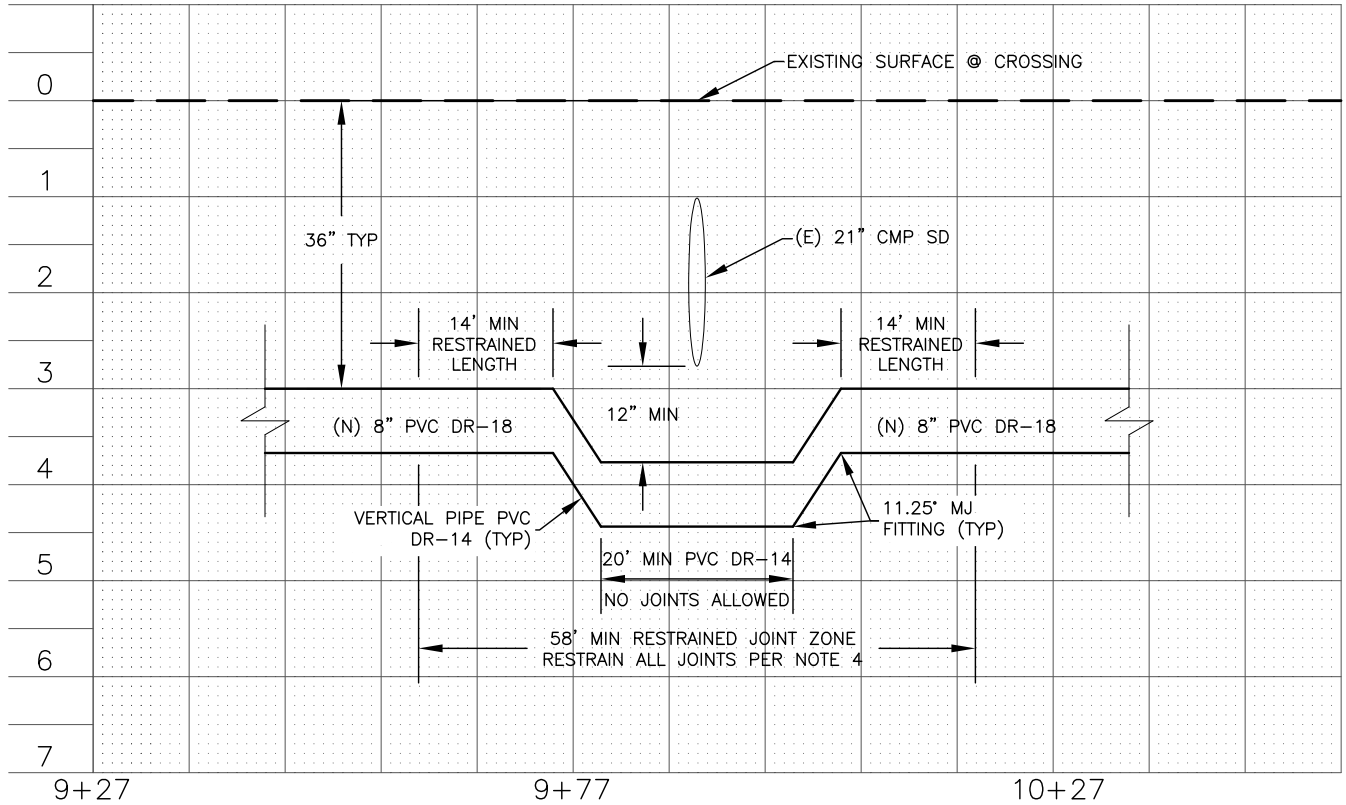
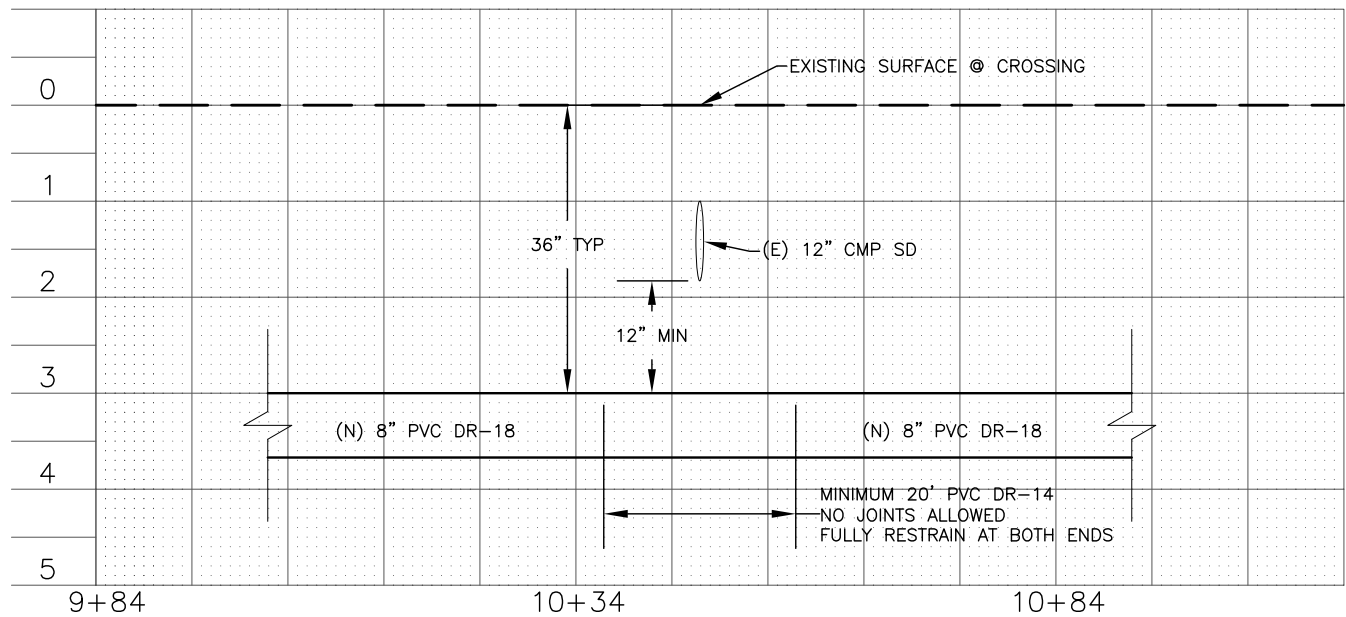
MOSQUITO ROAD STABILIZATION PROJECT


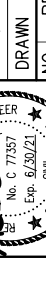
PHASE - I

WATER DETAILS 4

CITY OF PLACERVILLE

WATER DETAILS	DRAWING	D-4
	SHEET: 9 OF 10	
	SCALE	AS NOTED
	HORIZ: AS NOTED	
	VERT: AS NOTED	



WATER DETAILS	PLANS FOR THE CONSTRUCTION OF MOSQUITO ROAD STABILIZATION PROJECT PHASE - I				 CITY OF PLACERVILLE ENGINEERING DEPARTMENT 3101 CENTER STREET PLACERVILLE, CA 95667 (530) 642-5250	 10/14/19 DATE PROJECT ENGINEER A. C. SCHIESTEL	10/14/19		10/14/19		
	DRAWING D-5	WATER MAIN CROSSING PROFILE DETAILS		APPROVED REBECCA NEVES			DESIGNED A.C.S.	DRAWN A.C.S.	NO.	REVISIONS	APPROVAL BY
SHEET: 10 OF 10											
SCALE											
HORZ: AS NOTED											
VERT: AS NOTED											