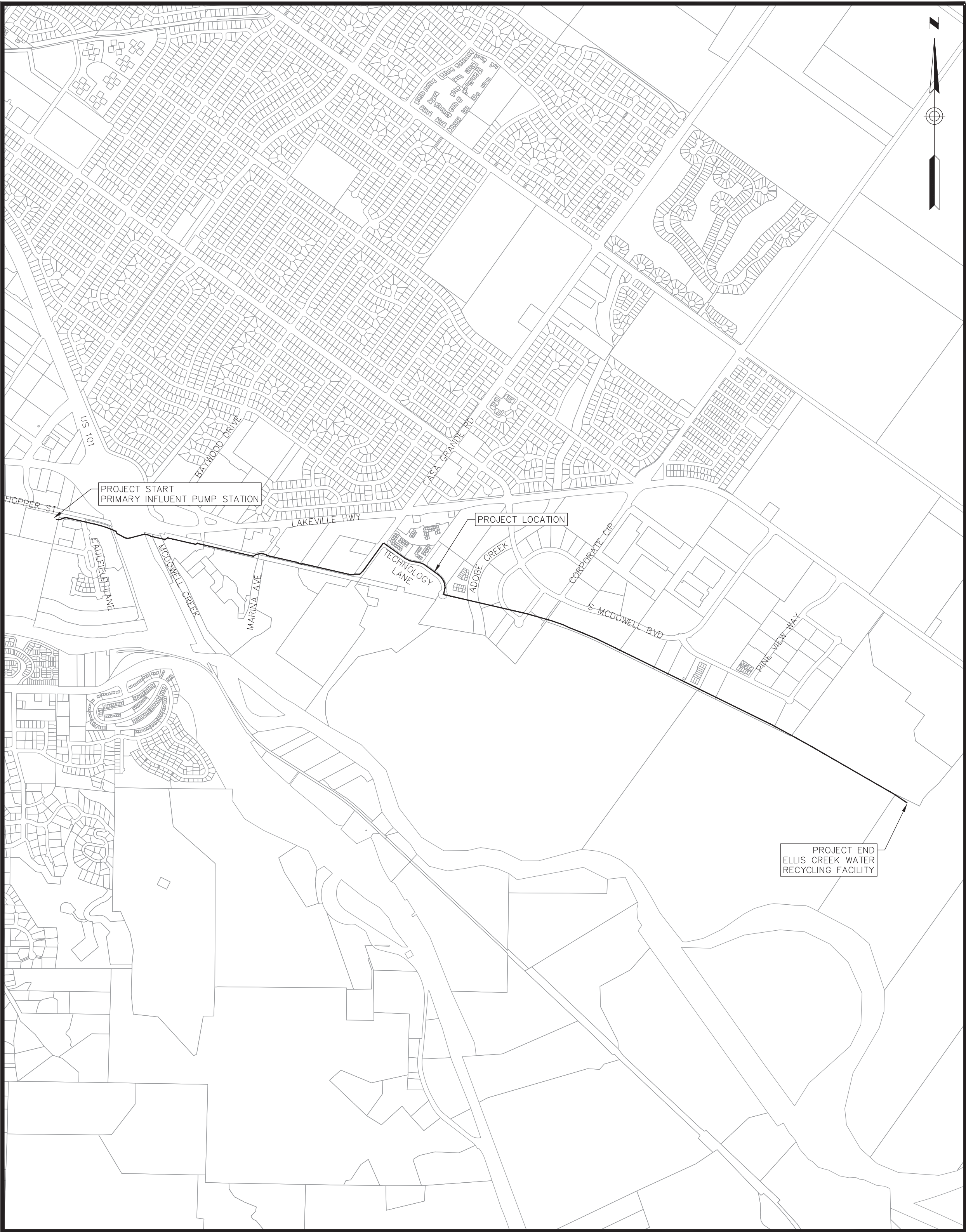


PLANS FOR
PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT
CITY OF PETALUMA, SONOMA COUNTY, CALIFORNIA

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60% DESIGN
NOT FOR CONSTRUCTION



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

PREPARED UNDER THE DIRECTION OF

MIRKO MAHER
R.C.E. 64645, EXPIRES 06/30/2025
WOODARD & CURRAN



CITY OF PETALUMA RELEASE FOR CONSTRUCTION

THE CITY OF PETALUMA HEREBY ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLAN PREPARATION REQUIREMENTS OF THIS GOVERNMENT. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGNS RESIDES WITH THE ENGINEER AND ENGINEERING FIRM OF RECORD.

MIKE KRIST
SENIOR PUBLIC WORKS INSPECTOR
CITY OF PETALUMA

JEFF STUTSMAN
CITY ENGINEERING
CITY OF PETALUMA

DAN HERRERA
SENIOR ENGINEER
CITY OF PETALUMA

COVER SHEET

PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT



DESIGNED BY: SC/AV	DATE: MAY 2024
DRAWN BY: ZS	DATE: MAY 2024
QC CHECKED BY: GH	DATE: MAY 2024
PROJECT NO: 001715.00	
SCALE: AS NOTED	
SUBMITTAL: 60% DESIGN SET	

SHEET 1 OF 42
G-1

REV. NO.	DESCRIPTION	BY	DATE
1			
2			
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4			
5			

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60% Design
Submittal
Not for
Construction

GENERAL

1. WORK AND MATERIALS SHALL COMPLY WITH THE CITY’S STANDARD SPECIFICATIONS AND DETAILS, THESE CONTRACT DOCUMENTS, AND REFERENCED CODES, REGULATIONS, AND DOCUMENTS. CONTRACTOR MUST COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.

SAFETY

1. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE AT ALL TIMES FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR OBTAINING NECESSARY INDEPENDENT CONSTRUCTION MANAGEMENT REVIEWS OF THE CONDITIONS. THE CONSTRUCTION MANAGER’S JOB SITE REVIEW DOES NOT RELIEVE CONTRACTOR’S RESPONSIBILITY FOR THE ADEQUACY OF THE CONTRACTOR’S SAFETY MEASURES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR INJURIES RESULTING FROM CONTRACTOR’S OPERATIONS AND/OR MATERIALS AND EQUIPMENT STORED IN STAGING AREAS. THE CITY IS NOT RESPONSIBLE FOR SECURING THE CONTRACTOR’S EQUIPMENT AND WORK SITES.
3. NOT ALL UTILITY SERVICE LATERALS ARE SHOWN ON PLANS. THOSE THAT ARE SHOWN MAY NOT BE SHOWN AT THEIR TRUE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH USA TO FIELD LOCATE SERVICE LATERALS AND USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF GAS AND ELECTRIC LINES.
4. THE WORK MAY INCLUDE CONFINED SPACE ENTRY. CONTRACTOR SHALL IMPLEMENT OSHA AND OTHER PERTINENT SAFETY AND HEALTH REQUIREMENTS.

EXISTING UTILITIES, BURIED STRUCTURES AND FEATURES

1. IT IS THE CONTRACTOR’S RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UTILITIES VIA UNDERGROUND SERVICE ALERT, COMMUNICATION WITH THE APPROPRIATE UTILITY AGENCIES AND POTHOLING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY PUBLIC AND PRIVATE UTILITY OWNERS A MINIMUM OF 7 DAYS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EACH OWNER’S UTILITIES.
2. EXISTING UTILITIES SHOWN ARE BASED UPON AVAILABLE RECORD INFORMATION AND ARE APPROXIMATE IN LOCATION AND DEPTH. CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL CROSSING AND PARALLEL UTILITIES EXPOSED DURING CONSTRUCTION.
3. THERE ARE OVERHEAD POWER LINES ALONG THE ALIGNMENT. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO OVERHEAD AND UNDERGROUND UTILITIES, DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR’S OPERATIONS SHALL BE REPORTED IMMEDIATELY TO THE CONSTRUCTION MANAGER AND UTILITY OWNER, AND SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. COSTS INCURRED BY UTILITY SERVICE INTERRUPTION RESULTING FROM THE CONTRACTOR’S OPERATION SHALL ALSO BE ENTIRELY REIMBURSED BY THE CONTRACTOR.
4. EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY AT NO ADDITIONAL COST TO THE CITY.



POTHOLING

1. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION UNDER THIS CONTRACT PRIOR TO SUBMITTING PIPE LAY DRAWINGS TO CONSTRUCTION MANAGER AND A MINIMUM OF THIRTY (30) DAYS PRIOR TO EXCAVATION IN THE VICINITY OF THOSE UTILITIES. UTILITIES TO BE POTHOLED INCLUDE ALL THAT CROSS THE PIPELINE ALIGNMENTS TO CONFIRM CLEARANCE BETWEEN THE EXISTING UTILITY AND THE NEW FORCE MAIN AND PARALLEL UTILITIES WITHIN TEN (10) FEET OF THE ALIGNMENT CENTERLINES. THE CONTRACTOR SHALL CLEARLY MARK THE DEPTHS AND HORIZONTAL POSITIONS OF POTHOLED UTILITIES ON THE RECORD DRAWING MARKUP SET, REGARDLESS OF WHETHER THE POTHOLE DATA AGREES OR DISAGREES WITH THE DRAWINGS. THE CONTRACTOR SHALL REPORT POTENTIAL UTILITY CONFLICTS TO THE CONSTRUCTION MANAGER IMMEDIATELY AFTER THEY ARE DISCOVERED. NO DELAY CLAIMS WILL BE ACCEPTED IF THE APPARENT CONFLICT IS RESOLVED BY THE CONSTRUCTION MANAGER WITHIN 30 DAYS AFTER IT IS REPORTED. NOT ALL EXISTING ELECTRIC UTILITY POLES AND OVERHEAD WIRES ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL LOCATE THESE FACILITIES IN THE FIELD AND MAKE PROVISIONS AS NEEDED TO PERFORM CONSTRUCTION WORK WITHOUT DAMAGE TO EXISTING FACILITIES.

COORDINATION

1. WORK AREA LIMITS: THE CONTRACTOR SHALL CONTAIN ITS OPERATIONS WITHIN THE PUBLIC RIGHT–OF–WAY AND SITE WORK AREA LIMITS SHOWN AND IN ACCORDANCE WITH THE CONDITIONS OF ITS ENCROACHMENT PERMIT(S).
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY, AND SHALL IMPLEMENT TRAFFIC CONTROL COORDINATED WITH TRAFFIC CONTROL PLAN AND IN ACCORDANCE TO THE SPECIFICATIONS AND ENCROACHMENT PERMIT REQUIREMENTS.
3. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE PUBLIC RIGHT–OF–WAY SHALL NOT BE PERMITTED, EXCEPT AT LOCATION(S) APPROVED BY THE CONSTRUCTION MANAGER.
4. THE CONTRACTOR SHALL NOTIFY, BY CIRCULAR, ALL BUSINESS ESTABLISHMENTS AND RESIDENCES LOCATED IN AREAS AFFECTED BY THE WORK AT LEAST 2 WEEKS, FORTY–EIGHT (48) HOURS, AND IMMEDIATELY PRIOR TO START OF CONSTRUCTION IN A PARTICULAR AREA. THE CIRCULAR SHALL INCLUDE EXPECTED DATES OF THE WORK AFFECTING THAT PROPERTY, CONTACT INFORMATION FOR THE GENERAL CONTRACTOR, AND A BRIEF DESCRIPTION OF THE WORK. CIRCULAR SHALL BE SUBJECT TO THE APPROVAL OF THE CONSTRUCTION MANAGER.
5. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR REQUIRED INSPECTIONS. THE PRESENCE OR ABSENCE OF THE INSPECTOR WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF THE WORK.
6. A CONSTRUCTION WATER METER OR RECYCLED WATER METER SHALL BE OBTAINED FOR CONSTRUCTION WATER OR RECYCLED WATER USE. THE METER(S) SHALL ONLY BE USED ON THE DESIGNATED WATER OR RECYCLED WATER SYSTEMS (I.E., CONSTRUCTION WATER METER SHALL NOT BE USED ON THE RECYCLED WATER SYSTEM). RECYCLED WATER SHALL BE USED UNLESS IT CAN BE SHOWN THAT RECYCLED WATER IS DETRIMENTAL TO THE WORK. OBTAINING METERS SHALL BE PAID FOR BY THE CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PROPERTY OWNERS FOR PROPERTY ACCESS.

EXCAVATION AND PAVEMENT RESTORATION

1. CONTRACTOR SHALL REFER TO THE PROJECT GEOTECHNICAL ENGINEERING INVESTIGATION REPORT BY DELVE UNDERGROUND DATED XXX, 20XX FOR INFORMATION ON PROJECT AREA SUBSURFACE CONDITIONS. A COPY OF THIS REPORT IS INCLUDED AS AN APPENDIX TO THE SPECIFICATIONS.
2. CONSTRUCTION VEHICLES AND EQUIPMENT USED ON THIS PROJECT SHALL BE SELECTED TO MINIMIZE DAMAGE TO THE EXISTING PAVEMENT ALONG THE PROJECT SITE AND TO ROADS USED AS TRUCK ROUTES TO BRING MATERIAL AND EQUIPMENT TO THE PROJECT. THE CONTRACTOR SHALL REPLACE A.C. PAVEMENT THAT IS DAMAGED BY THE CONTRACTOR’S ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE CITY.
3. PAVEMENT SHALL BE SAW CUT PRIOR TO INSTALLATION OF PAVEMENT PATCH. ROUGH EDGES THAT DEVELOP DURING CONSTRUCTION SHALL BE SAW CUT BACK TO UNDAMAGED PAVEMENT PRIOR TO INSTALLATION OF PAVEMENT PATCH. ADDITIONAL TRENCH WIDTH BEYOND THE MAXIMUM SHOWN ON THE PLANS (SEE TRENCH STANDARD DETAIL) SHALL BE BACKFILLED AND PAVED AT NO ADDITIONAL COST TO THE CITY.
4. TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL OSHA REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH AND EXCAVATION SHORING DESIGN AND INSTALLATION.
5. CONTRACTOR SHALL PERFORM ITS CONSTRUCTION AND OPERATIONS IN A MANNER THAT WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM AND CREEKS. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMP) AS OUTLINED IN STORM WATER BEST MANAGEMENT PRACTICES HANDBOOK, ISSUED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA). EROSION CONTROL METHODS SHALL BE IMPLEMENTED BY THE CONTRACTOR AT DISTURBED UNPAVED AREAS.
6. SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM PUBLIC RIGHT–OF–WAY AND PROJECT SITE, AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
7. IT IS THE CONTRACTOR’S RESPONSIBILITY TO REPLACE STREET MONUMENTS OR LOT CORNER PIPES DISTURBED DURING THE PROCESS OF CONSTRUCTION. IF A STREET MONUMENT HAS THE POTENTIAL OF BEING DISTURBED, A CORNER RECORD SHALL BE FILED WITH THE COUNTY SURVEYOR (PER SECTION 8773.2 OF THE PUBLIC LAND SURVEYORS ACT) AS REQUIRED BY THE SUBDIVISION MAP ACT TO PRESERVE THE LOCATION OF SAID STREET MONUMENT OR CORNER PIPE. CONTRACTOR SHALL, AT ITS EXPENSE, HIRE A CALIFORNIA LICENSED PROFESSIONAL LAND SURVEYOR TO PERFORM THE WORK.
8. DIMENSIONS FOR EXISTING STRUCTURES ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND CONDITIONS AND REPORT DISCREPANCIES TO THE CONSTRUCTION MANAGER AT LEAST 5 DAYS IN ADVANCE OF CONSTRUCTION IN THE AREA. SPOT ELEVATIONS IN THE PLAN VIEW SHALL TAKE PRECEDENCE OVER THE GRADE LINE SHOWN IN THE PROFILE, THOUGH BOTH ARE APPROXIMATE.
9. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS NOT DESIGNATED FOR DEMOLITION OR REMOVAL AND REPLACEMENT. DAMAGED EXISTING IMPROVEMENTS AND THOSE IMPROVEMENTS THAT HAVE BEEN REMOVED OR TEMPORARILY RELOCATED SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS CONDITION PRIOR TO CONSTRUCTION. IMPROVEMENTS DESIGNATED FOR DEMOLITION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. DURING THE CONSTRUCTION PERIOD, DAMAGE TO THE ADJACENT IMPROVEMENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY AND TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
10. MAINTENANCE OF WORK SITE: THE CONTRACTOR SHALL KEEP THE STREET AND WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THIS REQUIRES PREVENTING SPILLAGE ON HAUL ROUTES, CLEANING UP SPILLAGE, SWEEPING STREETS OF MUD, DIRT AND DEBRIS THAT ARE A RESULT OF THE CONTRACTOR’S WORK, AND KEEPING THE WORK SITE IN A CLEAN AND NEAT APPEARANCE. SPILLAGE ON HAUL ROUTES SHALL BE IMMEDIATELY REMOVED AND CLEANED UP. WHEN ORDERED BY THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL CLEAN UP THE WORK SITE IMMEDIATELY AFTER RECEIVING NOTICE.
11. CONTRACTOR SHALL BACKFILL TRENCHES TO GRADE AND/OR COVER TRENCHES WITH TRAFFIC PLATES AT THE END OF EACH DAY. TRAFFIC PLATES SHALL HAVE NON–SKID COATING. TRENCH PLATES SHALL ALSO BE ANCHORED TO PREVENT SHIFTING AND WEDGED TO MINIMIZE RATTLING AND NOISE. CUTBACK SHALL BE PROVIDED AROUND THE TRENCH PLATES AS NEEDED TO PREVENT FROM TIRE DAMAGE.
12. CONTRACTOR SHALL PROVIDE K–RAIL AND CHAINLINK FENCING AROUND JACKING AND RECEIVING SHAFTS. K–RAIL AND FENCE SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS. 24–HOUR FLASHING TRAFFIC BARRICADE LIGHTS SHALL BE PLACED AT THE ENDS OF ALL K–RAILS. FENCE FACING THE PUBLIC SHALL HAVE A SIGN STATING “DANGER–KEEP OUT”. SIGNAGE SHALL BE COORDINATED WITH PREPARED TRAFFIC PLANS AS NEEDED.
13. CONTRACTOR SHALL PROVIDE DUST CONTROL DURING CONSTRUCTION. DUST CONTROL SHALL BE AS REQUIRED IN THE CONTRACT SPECIFICATIONS.
14. CONTRACTOR SHALL REPLACE PAVEMENT MARKERS, MARKINGS AND STRIPES DAMAGED OR DISTURBED DURING CONSTRUCTION. SEE SPEC SECTION 02460.
15. FINAL PAVEMENT RESTORATION SHALL BE COMPLETED FOR ANY GIVEN AREA WITHIN 60 DAYS OF INITIAL TRENCH EXCAVATION UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.

TRAFFIC CONTROL

1. CONTRACTOR SHALL IMPLEMENT TRAFFIC CONTROL AS DESCRIBED IN SPEC SECTION 01570 AND MEETING THE REQUIREMENTS OF THE CITY ENCROACHMENT PERMIT.
2. CONTRACTOR SHALL CONDUCT ITS OPERATIONS TO ALLOW TRAFFIC TO PASS IN BOTH DIRECTIONS AS SPECIFIED AND REQUIRED IN ENCROACHMENT PERMIT.
3. CONTRACTOR SHALL PROVIDE TEMPORARY PEDESTRIAN WALKWAYS/PATHS THAT ARE ADA COMPLIANT TO TRAVERSE AROUND WORK AND FOR EVERY PEDESTRIAN RAMP/SIDEWALK SECTION THAT IS REMOVED OR DISTURBED DURING CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ROADS AND DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.

PIPELINE INSTALLATION

1. VERTICAL AND HORIZONTAL ANGLES AND CURVES: THE DEFLECTION ANGLE (IN DEGREES) OF SOME VERTICAL AND HORIZONTAL ANGLE POINTS IN THE PLAN AND PROFILE ARE NOT CALLED OUT IN THE DRAWINGS. WHERE THE PIPELINE HAS HORIZONTAL CURVES, CURVE DATA IS PROVIDED. WHERE PRACTICAL, THE CONTRACTOR SHALL DEFLECT JOINTS WITHIN THE SPECIFIED LIMITS TO ACCOMPLISH VERTICAL AND HORIZONTAL CURVES TO MATCH THE SPECIFIED ALIGNMENT AND PROFILE. WHERE THE CONTRACTOR SHORTENS INDIVIDUAL SEGMENTS OF PIPE TO ACHIEVE CURVES OF SMALLER RADIUS THAN WHAT STANDARD PIPE SEGMENT LENGTHS AND JOINT DEFLECTIONS MAY ALLOW, THE LENGTHS OF SHORTENED PIPE SEGMENTS THROUGHOUT THE CURVE SHALL BE EQUAL. WHERE CURVES OR ANGLES MUST BE ACCOMPLISHED WITH FITTINGS, THE CONTRACTOR SHALL USE RESTRAINED PIPE ON BOTH SIDES OF THE FITTING ACCORDING TO THE RESTRAINED LENGTH TABLE ON SHEET G-5. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THE USE OF FITTINGS AND ASSOCIATED CATHODIC PROTECTION AT LOCATIONS ALONG THE PIPELINE WHERE THE CONTRACTOR ELECTS TO USE FITTINGS THAT ARE NOT CALLED OUT AS ANGLE POINTS (PI, VPI, OR CPI) ON THE DRAWINGS.
2. UTILITY CLEARANCE: UNLESS OTHERWISE INDICATED, ADJUST PIPELINE PROFILE TO PROVIDE MIN 12” VERTICAL CLEARANCE AT UNDERGROUND UTILITY CROSSINGS.
3. LOCATIONS OF ANGLE POINTS, VALVES, COMBINATION AIR VALVE TAP AND VALVE BOXES, BLIND FLANGES, AND SIMILAR FEATURES ALONG THE FORCE MAIN PIPELINE SHALL BE DOCUMENTED TO THE SAME LEVEL OF ACCURACY AS PROVIDED IN THESE CONTRACT DRAWINGS BY THEIR NORTHING AND EASTING COORDINATES IN THE CONTRACTOR’S RECORD DRAWINGS TO FACILITATE LOCATING THESE FEATURES IN THE FUTURE.
4. RECORD DRAWINGS: THE CONTRACTOR SHALL KEEP COMPLETE AND ACCURATE RECORD DRAWINGS OF THE WORK, UTILITY POTHOLE DATA AND EXISTING CONDITIONS THAT HAVE CHANGED OR ARE DIFFERENT THAN SHOWN ON THE PLANS. UPON COMPLETION OF THE WORK, THE CONTRACTOR’S RECORD DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR REVIEW AND COMMENT.
5. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT IN PLACE EXISTING ROADSIDE CULVERTS AND DITCHES AND ASSOCIATED FLORA DURING CONSTRUCTION. IF THESE FACILITIES AND THE ASSOCIATED FLORA MUST BE DISTURBED, CONTRACTOR SHALL REPLACE AND/OR RESTORE THIS AREA TO PRE–CONSTRUCTION CONDITION OR BETTER AND IN COMPLIANCE WITH PROJECT PERMITS. SEE SPECIFICATIONS.
6. CONTRACTOR SHALL PROTECT OR TEMPORARILY RELOCATE EXISTING MAILBOXES ALONG THE PIPELINE ALIGNMENT. POSTAL SERVICE TO THESE MAILBOXES SHALL NOT BE INTERRUPTED BY CONSTRUCTION ACTIVITIES.
7. CONTRACTOR SHALL PLACE UTILITY BOXES AND ASSOCIATED PIPING AT LOCATIONS AS INDICATED ON DRAWINGS. IF A CONFLICT EXISTS, CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTRUCTION MANAGER AND WORK TO RELOCATE UTILITY BOX AND ASSOCIATED PIPING IN THE GENERAL VICINITY AS SHOWN ON THE DRAWINGS. RELOCATION OF THE UTILITY BOX AND ASSOCIATED PIPING WITHIN THE LIMITS OF A PROPERTY FRONTAGE WILL NOT BE CONSIDERED A CONTRACT CHANGE AND THE CONTRACTOR WILL NOT BE COMPENSATED FOR THE CHANGE.
8. THERE ARE LARGE TREES LOCATED ALONG THE FORCE MAIN ALIGNMENT. CONTRACTOR SHALL CONDUCT A PRE–CONSTRUCTION SITE WALK WITH THE CONSTRUCTION MANAGER AND CITY’S ARBORIST TO DETERMINE WHICH TREES AND WHICH SPECIFIC TREE BRANCHES MAY BE TRIMMED IN ORDER TO PERFORM THE WORK. THE CONTRACTOR SHALL NOTE THAT, IN SOME CASES, HE MAY NOT BE PERMITTED TO CUT TREE BRANCHES AND ALTERNATIVE CONSTRUCTION EQUIPMENT MAY BE REQUIRED TO AVOID AN EXISTING TREE WHEN INSTALLING THE PIPELINE. CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE WITH THE ARBORIST WHILE WORKING IN PROXIMITY TO TREE ROOTS. SEE SPECIFICATIONS.

TABLE OF SURVEY CONTROL				
PT.	NORTHING (FT)	EASTING (FT)	ELEV. (FT)	DESCRIPTION
108	1845680.89	6387177.29	20.82	SET RBR RD CP AT
100	1847193.96	6382427.75	17.84	SET MAG WSHR AT
101	1848355.22	6382560.16	13.89	SET MAG WSHR AT
102	1846706.69	6383821.31	15.36	SET MAG WSHR AT
103	1847885.92	6383781.00	11.01	SET MAG WSHR AT
104	1846718.88	6384936.58	10.66	SET MAG WSHR AT
105	1847622.66	6385118.80	12.09	SET MAG WSHR AT
106	1846243.44	6385938.68	9.90	SET CC NL WASHER
107	1847181.52	6386133.30	11.56	SET MAG WSHR AT
109	1847045.93	6387638.54	14.80	SET MAG WSHR AT
110	1845820.96	6389229.13	13.44	SET MAG WSHR AT
111	1846842.68	6389593.49	16.22	SET MAG WSHR AT
112	1845792.90	6390552.61	15.30	SET MAG WSHR AT
113	1845684.30	6391733.20	15.44	SET MAG WSHR AT
114	1844580.20	6391427.84	14.42	SET RBR RD CP AT
115	1844460.23	6393247.22	10.50	SET RBR RD CP AT
116	1843012.89	6394391.65	15.95	SET RBR RD CP AT
117	1844275.76	6395009.32	19.64	SET RBR RD CP AT
118	1847426.25	6383336.43	15.44	SET MAG WSHR AT
119	1847294.13	6383951.30	14.19	SET MAG WSHR AT
120	1847173.64	6384691.64	14.90	SET MAG WSHR AT
121	1846944.42	6385477.30	10.64	SET MAG WSHR AT
122	1846872.71	6386359.84	11.50	SET MAG WSHR AT
123	1846663.96	6387349.88	13.64	SET MAG WSHR AT
124	1846355.52	6388453.06	14.16	SET MAG WSHR AT
125	1846255.04	6388692.84	15.09	SET MAG WSHR AT
126	1846873.35	6385689.50	11.60	SET MAG WSHR AT
127	1846015.24	6389481.08	15.37	SET MAG WSHR AT
128	1846464.12	6389847.76	15.40	SET SCRIBED “X” ON SD
129	1846018.38	6389961.50	14.50	SET MAG WSHR AT
130	1845956.72	6391082.11	15.94	SET MAG WSHR AT
131	1845356.05	6391394.36	16.08	SET MAG WSHR AT
132	1845160.69	6391807.08	15.97	SET MAG WSHR AT
133	1844921.26	6392270.11	13.19	SET MAG WSHR AT
134	1844128.98	6393784.00	10.04	SET RBR RD CP AT
135	1843687.49	6394513.35	18.68	SET CC NL SHINER

GENERAL NOTES AND TABLE OF SURVEY CONTROL

PRIMARY INFLUENT PUMP STATION PARALLEL FORCE MAIN PROJECT

DESIGNED BY: AGAW

DRAWN BY: ZS

QC CHECKED BY: GH

PROJECT No. 001775.00

SCALE: NONE

SUBMITTAL 60% DESIGN SET

DATE MAY 2024

DATE MAY 2024

DATE MAY 2024

001775.00

NONE

DATE MAY 2024

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Walnut Creek, California 94596
925.627.4100 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

60% Design Submittal Not for Construction

BY: _____

DATE: _____

DESCRIPTION: _____

REV. NO.

1	2	3	4	5
△	△	△	△	△

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EXISTING

PROPOSED

SECTION AND DETAIL IDENTIFICATION

1. STANDARD DETAIL IDENTIFICATIONS ARE SHOWN ON THE PLANS AND ON THE STANDARD DETAIL DRAWINGS. THERE IS NO SPECIFIC CROSS REFERENCING OF DRAWINGS. STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS OCCURRING ON THIS PROJECT, WHETHER OR NOT THEY ARE REFERENCED TO IN EACH APPLICABLE LOCATION.


LENGTHS OF PIPELINE THAT ARE REQUIRED TO HAVE RESTRAINED JOINTS ARE SHOWN ON THE PIPELINE PROFILE, WHERE THE CONTRACTOR USES A FITTING TO CHANGE PIPELINE DIRECTION OR SLOPE WHERE NO DEFLECTION POINT (VPI, PI, CPI) IS CALLED OUT ON THE DRAWINGS, OR WHERE THE CONTRACTOR USES A FITTING AT A DIFFERENT ANGLE THAN WHAT IS CALLED OUT ON THE DRAWINGS, THE CONTRACTOR SHALL RESTRAIN JOINTS ON BOTH SIDES OF THE FITTING WITHIN THE LENGTHS INDICATED BELOW. IF ANY DISCREPANCIES IN RESTRAINED LENGTHS ARE ENCOUNTERED, THE LONGER RESTRAINED LENGTH SHALL GOVERN.

RESTRAINED LENGTHS ARE BASED UPON PVC PIPE AT A MAX. PRESSURE OF 125 PSI AND A MINIMUM COVER OF 4- FEET.

ABBREVIATIONS*

*THESE ARE GENERAL ABBREVIATIONS. NOT ALL APPEAR ON THESE DRAWINGS.

REV. NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			



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Submittal
Not for
Construction

ABBREVIATIONS, LEGEND,
AND SYMBOLS

PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT



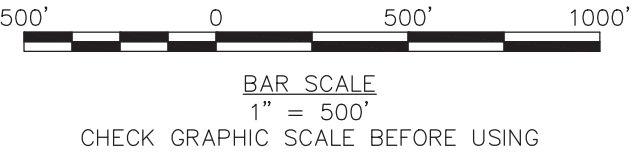
DESIGNED BY:	JG/AV	DATE: MAY 2024
DRAWN BY:	ZS	DATE: MAY 2024
QC CHECKED BY:	GH	DATE: MAY 2024
PROJECT No.	001715.00	
SCALE	AS NOTED	
SUBMITTAL WORK DESIGN SET		DATE: MAY 2024

SHEET **3** OF **42**

G-3



KEY MAP
1" = 500'




DESIGNED BY: KJAW DATE MAY 2024
DRAWN BY: ZS DATE MAY 2024
QC CHECKED BY: GH DATE MAY 2024
PROJECT NO: 001715.00
SCALE: XXX
SUBMITTAL 60% DESIGN SET

DATE MAY 2024
DATE MAY 2024
DATE MAY 2024
DATE MAY 2024
DATE MAY 2024


DESCRIPTION
BY
DATE

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COMMITMENT & INTEGRITY DRIVE RESULTS



60% Design Submittal Not for Construction

KEY MAP
PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT



DESIGNED BY: KJAW DATE MAY 2024
DRAWN BY: ZS DATE MAY 2024
QC CHECKED BY: GH DATE MAY 2024
PROJECT NO: 001715.00
SCALE: XXX
SUBMITTAL 60% DESIGN SET

DATE MAY 2024
DATE MAY 2024
DATE MAY 2024
DATE MAY 2024
DATE MAY 2024

DESCRIPTION
BY
DATE

SHEET 4 OF 42
G-4

RESTRAINED LENGTH TABLE:

Sheet	Station	Description	Angle (°)	Depth of Cover (ft)	Calculated Restrained Length (ft)
PP-1	10+47	Material Transition	-	-	-
PP-1	10+57	Horizontal Bend	22.5	6.1	11
PP-1	11+21	Horizontal Bend	45	6.4	21
PP-1	12+87	Horizontal Bend	11.25	6.5	5
PP-1	13+15	Horizontal Bend	11.25	6.8	5
PP-2	16+79	Horizontal Bend	11.25	8.3	5
PP-2	17+92	Plug Valve	0	8.8	125
PP-2	18+00	Wye	Wye	9.4	103
PP-2	18+25	Vertical Bend - Down	22.5	7.8	35
PP-2	18+30	Horizontal Bend	45	8.3	18
PP-2	18+36	Vertical Bend - Down	22.5	10.5	28
PP-2	18+73	Horizontal Bend	45	11.7	16
PP-3	19+08	Material Transition	-	-	-
PP-4	23+88	Material Transition	-	-	-
PP-4	25+52	Vertical Bend - Up	11.25	19.5	4
PP-4	25+70	Horizontal Bend	45	15.8	12
PP-4	26+08	Horizontal Bend	45	9.4	17
PP-4	26+09	Vertical Bend - Down	11.25	9.4	15
PP-5	27+45	Plug Valve	0	8.4	128
PP-5	29+74	Vertical Bend - Up	22.5	11.3	27
PP-5	29+86	Vertical Bend - Down	22.5	16.2	21
PP-5	30+39	Vertical Bend - Down	11.25	5.7	21
PP-7	37+84	Horizontal Bend	45	7.8	19
PP-7	38+33	Horizontal Bend	22.5	7.7	9
PP-7	39+03	Horizontal Bend	22.5	8.0	9
PP-7	39+61	Vertical Bend - Up	22.5	7.7	16
PP-7	39+69	Horizontal Bend	45	4.8	24
PP-7	39+69	Vertical Bend - Down	22.5	4.6	46
PP-7	39+81	Horizontal Bend	45	4.7	23
PP-7	40+30	Plug Valve	0	4.6	165
PP-8	44+14	Horizontal Bend	22.5	8.5	9
PP-8	44+33	Horizontal Bend	22.5	8.7	9
PP-8	44+57	Horizontal Bend	22.5	8.4	9
PP-8	44+74	Horizontal Bend	22.5	8.6	9
PP-8	46+86	Vertical Bend - Up	22.5	9.5	14
PP-8	46+99	Vertical Bend - Down	22.5	4.1	49
PP-9	51+47	Horizontal Bend	22.5	6.7	10
PP-9	52+01	Horizontal Bend	22.5	7.6	9
PP-9	52+15	Horizontal Bend	11.25	7.9	5
PP-10	52+57	Horizontal Bend	45	9.9	16
PP-10	53+27	Horizontal Bend	11.25	10.9	4
PP-10	53+37	Vertical Bend - Up	22.5	10.9	13
PP-10	53+51	Vertical Bend - Down	22.5	5.3	43
PP-11	57+81	Horizontal Bend	45	8.6	18
PP-11	57+96	Horizontal Bend	45	8.3	18
PP-11	59+80	Plug Valve	0	9.6	119
PP-11	61+62	Horizontal Bend	11.25	11.6	4
PP-12	62+34	Horizontal Bend	11.25	11.6	4
PP-12	62+66	Horizontal Bend	11.25	11.8	4
PP-12	63+01	Horizontal Bend	11.25	11.6	4
PP-12	63+67	Horizontal Bend	11.25	11.2	4
PP-12	63+80	Vertical Bend - Up	22.5	11.2	13
PP-12	63+92	Vertical Bend - Down	22.5	6.8	37
PP-12	64+08	Horizontal Bend	11.25	6.9	5
PP-12	66+60	Horizontal Bend	11.25	8.7	5
PP-13	67+07	Horizontal Bend	11.25	8.7	5
PP-13	67+74	Horizontal Bend	11.25	8.7	5
PP-13	67+93	Horizontal Bend	11.25	8.8	5
PP-13	68+47	Horizontal Bend	22.5	8.5	9
PP-13	69+37	Horizontal Bend	45	8.5	17
PP-13	69+49	Horizontal Bend	45	8.8	17
PP-13	69+65	Vertical Bend - Down	45	8.6	67
PP-13	69+70	Vertical Bend - Down	45	14.2	47
PP-15	78+75	Vertical Bend - Up	22.5	17.6	9
PP-15	78+80	Vertical Bend - Down	22.5	8.2	33
PP-15	79+40	Plug Valve	0	7.6	134
PP-15	79+78	Material Transition	-	-	-
PP-18	91+23	Material Transition	-	-	-
PP-18	93+39	Vertical Bend - Up	22.5	5.8	19
PP-18	93+51	Vertical Bend - Down	22.5	4.2	48
PP-18	93+71	Vertical Bend - Down	22.5	4.7	46
PP-18	93+82	Vertical Bend - Down	22.5	7.3	36
PP-19	98+11	Vertical Bend - Up	22.5	10.4	13
PP-19	98+27	Vertical Bend - Down	22.5	4.1	49
PP-19	99+20	Plug Valve	0	4.1	171
PP-21	108+68	Vertical Bend - Up	11.25	6.2	9
PP-21	108+83	Vertical Bend - Down	11.25	4.7	23
PP-23	118+70	Plug Valve	0	9.2	122
PP-24	119+07	Horizontal	45	9.6	16
PP-24	119+29	Horizontal Bend	45	9.4	17
PP-24	119+42	Vertical Bend - Down	45	9.4	63
PP-24	119+46	Vertical Bend - Down	45	13.2	50
PP-24	121+59	Vertical Bend - Up	22.5	11.2	13
PP-24	121+74	Vertical Bend - Down	22.5	5.4	43
PP-25	126+01	Horizontal Bend	11.25	6.3	5
PP-25	127+99	Vertical Bend - Up	11.25	9.2	7
PP-25	128+10	Horizontal Bend	11.25	7.3	5
PP-25	128+31	Vertical Bend - Down	11.25	4	25
PP-25	129+62	Horizontal Bend	22.5	7.6	9
PP-26	130+15	Horizontal Bend	22.5	6.6	10
PP-26	130+96	Horizontal Bend	45	7.8	19
PP-26	131+30	Horizontal Bend	22.5	9.1	8
PP-26	132+75	Horizontal Bend	22.5	7.4	10
PP-26	134+47	Vertical Bend - Up	22.5	11.4	12
PP-26	134+54	Vertical Bend - Down	22.5	8.3	33
PP-26	134+55	Horizontal Bend	22.5	8.3	9
PP-27	135+71	Horizontal Bend	11.25	5.7	6
PP-27	138+22	Material Transition	-	-	-

POTHOLE PLAN:

Pothole #	LOCATION DESCRIPTION	SHEET	UTILITY SIZE & TYPE	APPROX. STATION	DEPTH TO TOP (ft)	MATERIAL	SURFACE NOTES
1N	Hopper Street APN 136-690-000	PP-1	6"SS	11+05	NL ¹	Clay	Manhole Cover
15	Hopper Street APN 136-690-000	PP-1	8"SS	11+05	NL	Clay	Manhole Cover
2	Hopper Street APN 136-690-000	PP-1	E	11+80	NL	NA	Asphalt
3	Hopper Street APN 136-690-000	PP-1	4"G	13+60	NL	NA	Asphalt
4	Caltrans	PP-2	36"FM	18+45	NL	NA	Natural Ground
5	Petaluma Marina Apartments DN 2017-079783	PP-4	36" FM	25+80	NL	NA	Natural Ground
5.1	Petaluma Marina Apartments DN 2017-079783	PP-4	8"Unknown	25+80	6.60	Clay	Natural Ground
6	Petaluma Marina Apartments DN 2017-079783	PP-5	4"E	30+75	3.70	Plastic	Natural Ground
6.1	Petaluma Marina Apartments DN 2017-079783	PP-5	4"E	30+75	3.70	Plastic	Natural Ground
6.2	Petaluma Marina Apartments DN 2017-079783	PP-5	1"G	30+75	2.94	Plastic	Natural Ground
7	Petaluma Marina Apartments DN 2017-079783	PP-5	3"G	30+80	3.30	Plastic	Asphalt
8	Baywood Drive Petaluma Marina Apartments DN 2017-079783	PP-5	8"W	31+00	NL	NA	Asphalt
8.1	Petaluma Marina Apartments DN 2017-079783	PP-5	12"E	31+00	3.50	Plastic	Asphalt
9	Marina Avenue City of Petaluma DN 2004-194494	PP-7	2"G	38+30	3.30	Plastic	Asphalt
10	Marina Avenue City of Petaluma DN 2004-194495	PP-7	6"E	38+35	3.50	Plastic	Asphalt
11	Marina Avenue Public ROW	PP-7	6"E	38+70	0.80	Metallic	Asphalt
12	Marina Avenue Public ROW	PP-7	42"SD	39+30	1.00	Slurry Encasement	Asphalt
13	Petaluma United Group, LLC DN 2019-047827	PP-9	2"COMM	50+20	1.30		Gravel
14	Casa Grande Avenue Public ROW	PP-9	4"G	52+10	4.90	Plastic	Natural Ground
15	Casa Grande Avenue Public ROW	PP-9	8"W	52+45	NL	NA	Natural Ground
16	Casa Grande Avenue Public ROW	PP-10	2"G	52+65	NL	NA	Asphalt
17	Casa Grande Avenue / Technology Lane Public ROW	PP-11	4"G	57+45	7.80	Plastic	Asphalt
18	Casa Grande Avenue / Technology Lane Public ROW	PP-11	12"W	57+70	NL	NA	Asphalt
19	Technology Lane Public ROW	PP-11	COMM	60+55	NL	NA	Asphalt
20	Technology Lane Public ROW	PP-11	E	61+45	NL	NA	Asphalt
21	Technology Lane Public ROW	PP-12	COMM	62+10	NL	NA	Asphalt
X	Technology Lane Public ROW	PP-12	2.5"COMM	Near 63+00	2.20	Plastic	Natural Ground
22	Technology Lane Public ROW	PP-12	12"W	64+25	4.60	Clay	Asphalt
23	Technology Lane Public ROW	PP-12	3" COMM	64+35	2.50	Unknown	Asphalt
24	Technology Lane Public ROW	PP-12	COMM	64+40	0.40	Unknown	Asphalt
24.1	Technology Lane Public ROW	PP-12	4"E	64+40	3.00	Plastic	Asphalt
25	Technology Lane Public ROW	PP-12	G	64+50	6.40	Unknown	Asphalt
27	Technology Lane Public ROW	PP-12	2"E	65+55	2.65	Plastic	Asphalt
28	Technology Lane Public ROW	PP-13	COMM	69+20	NL	NA	Asphalt
29	Technology Lane Public ROW	PP-13	12"W	69+40	5.10	Plastic	Asphalt
30	Corporate Cirde Public ROW	PP-16	12"W	80+70	4.00	Asbestos Cement (Transite)	Asphalt
31	Corporate Cirde Public ROW	PP-16	3"G	81+05	2.60	Plastic	Concrete
32	Corporate Cirde Public ROW	PP-16	4"E	81+10	2.60	Plastic	Concrete
32.1	Corporate Cirde Public ROW	PP-16	2" Unknown	81+10	2.70	Plastic	Concrete
33	SSCOP DE, LLC DN 2018-014706	PP-16	3"COMM	81+15	2.60	Plastic	Natural Ground
34	SSCOP DE, LLC DN 2018-014706	PP-16	36"FM	Near 82+45	NL	NA	Asphalt
35	SSCOP DE, LLC DN 2018-014707	PP-16	12"HPG	83+35	7.00	Metallic	Asphalt
36	Cader Lane Public ROW	PP-16	4"E	83+65	4.00	Plastic	Asphalt
37	Cader Lane Public ROW	PP-16	16"W	84+70	NL	NA	Asphalt
38	SSCOP DE, LLC DN 2018-014707	PP-16	42"SD	83+80	1.00	Concrete	Natural Ground
39	SSCOP DE, LLC DN 2018-014708	PP-17	30"SD	86+20	4.20	Corrugated Metal Pipe	Asphalt
40	SSCOP DE, LLC DN 2018-014709	PP-17	30"SD	86+25	4.00	Corrugated Metal Pipe	Asphalt
41	SSCOP DE, LLC DN 2018-014708	PP-18	16"HPG	93+65	8.30	Metallic	Asphalt
41.1	SSCOP DE, LLC DN 2018-014708	PP-18	1"HPG	93+65	8.30	Metallic	Asphalt
42	Bufferlands City of Petaluma	PP-25	SD	129+75	5.80	Unknown	Natural Ground
43	Bufferlands City of Petaluma	PP-26	SD	134+25	2.60	Unknown	Natural Ground
44	Bufferlands City of Petaluma	PP-27	Connection to Interceptor	138+50	NL	NA	Natural Ground

¹Not located (NL) during February/March 2024 potholing investigation.

BY: DATE:

DESCRIPTION:

REV NO:

1


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4

5


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60% Design Submittal Not for Construction

POTHOLE DATA & RESTRAINED LENGTH TABLE

PRIMARY INFLUENT PUMP STATION PARALLEL FORCE MAIN PROJECT





DESIGNED BY: KJW DATE MAY 2024
DRAWN BY: ZS DATE MAY 2024
QC CHECKED BY: GH DATE MAY 2024
PROJECT No. 001775.00
SCALE: XXX
SUBMITTAL: 60% DESIGN SET

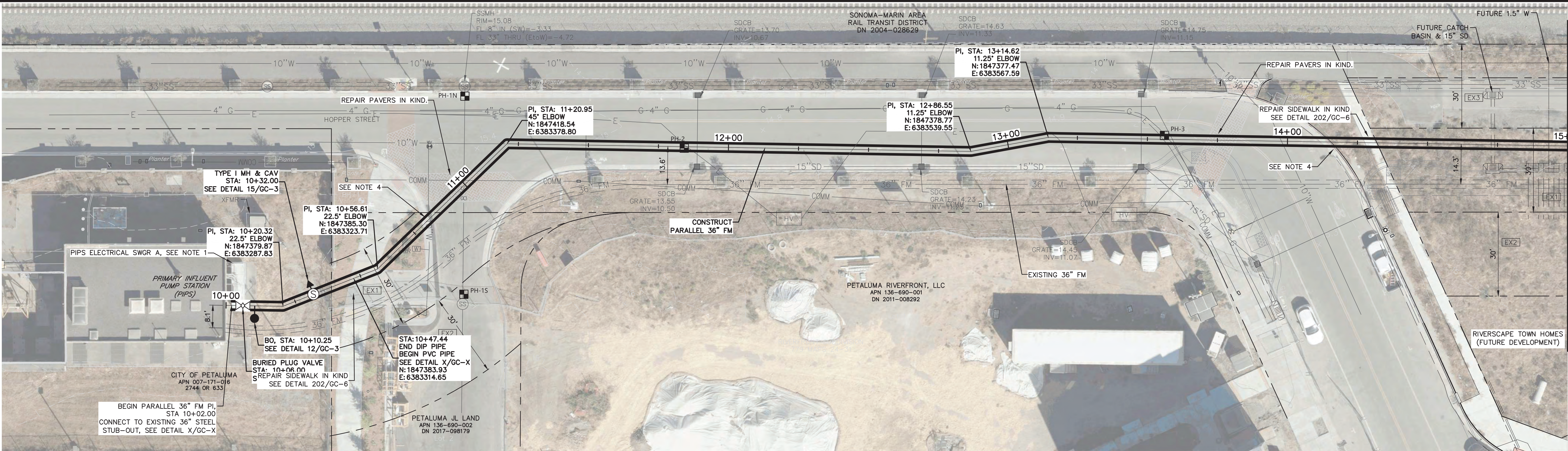
DATE MAY 2024

SHEET 5 OF 42

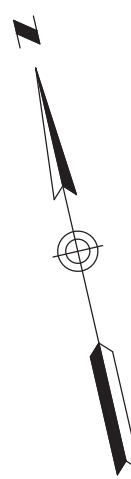
G-5

ACCESS PLAN FOR ELLIS CREEK WATER
RECYCLING FACILITY PROPERTY TO BE
INCLUDED IN 90% DESIGN SUBMITTAL

SHEET 6 OF 42		DESIGNED BY: AGWY DATE MAY 2024				GENERAL NOTES AND TABLE OF SURVEY CONTROL PRIMARY INFLUENT PUMP STATION PARALLEL FORCE MAIN PROJECT		<div>60% Design Submittal Not for Construction</div>		 <div>2175 N. California Boulevard, Suite 315 Walnut Creek, California 94596 925.827.4100 www.woodardcurran.com COMMITMENT & INTEGRITY DRIVE RESULTS</div>		REV. NO.	DESCRIPTION	BY	DATE
										1					
										2					
										3					
										4					
										5					



STA. 15+00
MATCH LINE SEE SHEET PP-2



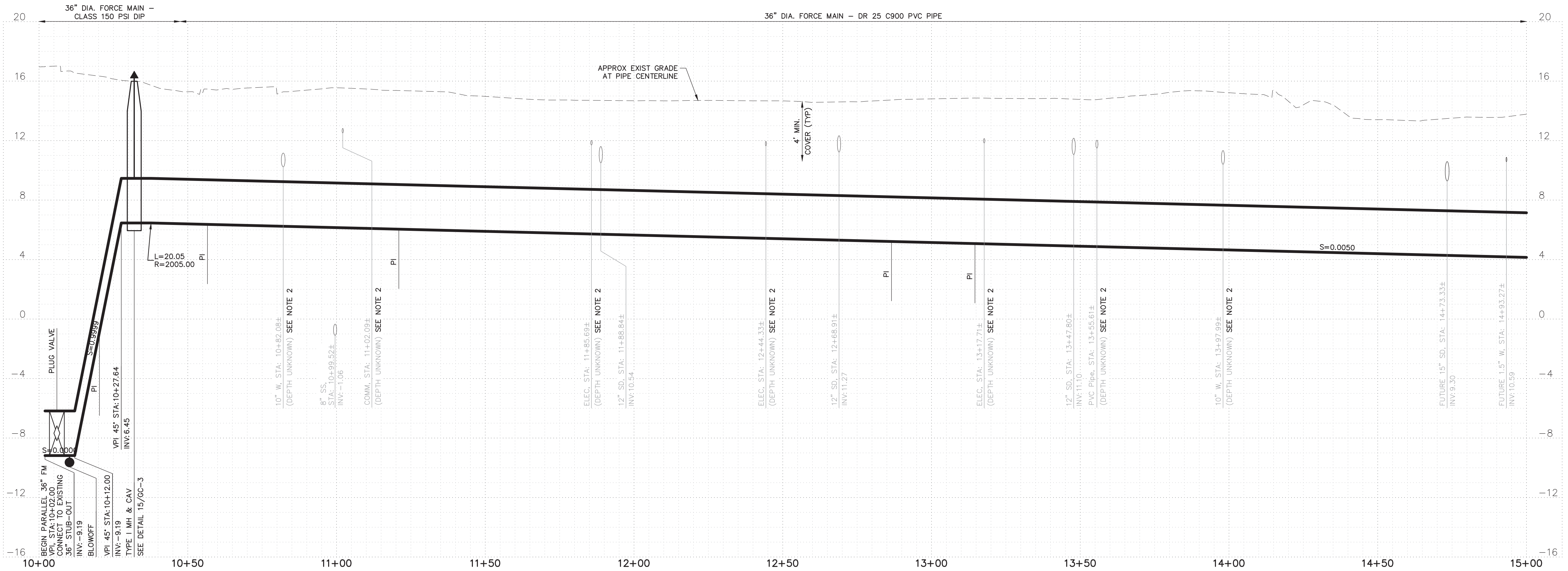
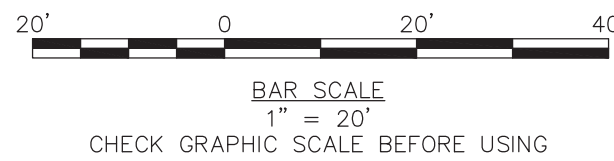
PLAN
SCALE: 1"=20'

EXISTING EASEMENT DESIGNATIONS:

- [EX1] EXISTING 30 FOOT EASEMENT FOR SEWER CONSTRUCTION AND MAINTENANCE FBO CITY OF PETALUMA PER 2744 OR 635, SCR.
- [EX2] EXISTING 30 FOOT EASEMENT FOR SEWER CONSTRUCTION FBO CITY OF PETALUMA PER 2744 OR 635, SCR.
- [EX3] 30 FOOT WIDE PUBLIC SANITARY SEWER EASEMENT, PER 779 MAPS 24-31, SCR.

NOTES:

- EXISTING ELECTRICAL SWITCHGEAR TO BE RELOCATED PRIOR TO EXCAVATION REQUIRED FOR CONNECTION TO THE EXISTING 36" STUB-OUT.
- POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY AND WITH ENGINEER'S APPROVAL TO MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF EXISTING UTILITY AND OUTSIDE OF 36" FM. MINIMUM COVER SHALL BE 4FT.
- SEE SHEET G-5 FOR POTHOLE DATA.
- RECONSTRUCT CURB AND GUTTER PER CITY STANDARD DETAIL 203/GC-6.



PROFILE
1"=20' H 1"=4' V

FORCE MAIN PLAN AND PROFILE



DESIGNED BY:	KGW	DATE MAY 2024
DRAWN BY:	ZS	DATE MAY 2024
QC CHECKED BY:	GH	DATE MAY 2024
PROJECT NO.	001715.00	
SCALE	AS NOTED	
SUBMITTAL 60% DESIGN SET		DATE MAY 2024

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Submittal
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PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT

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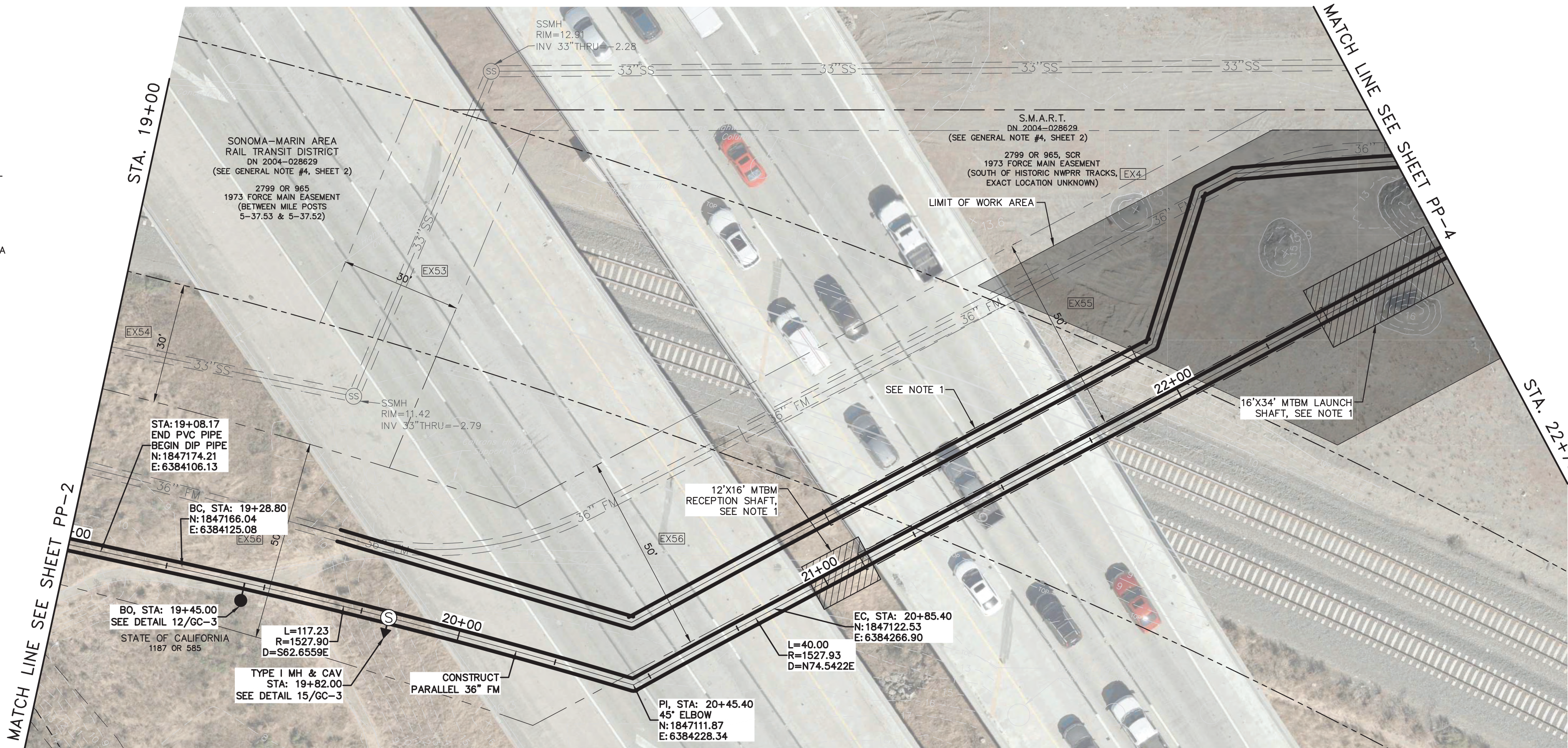


EXISTING EASEMENT DESIGNATIONS:

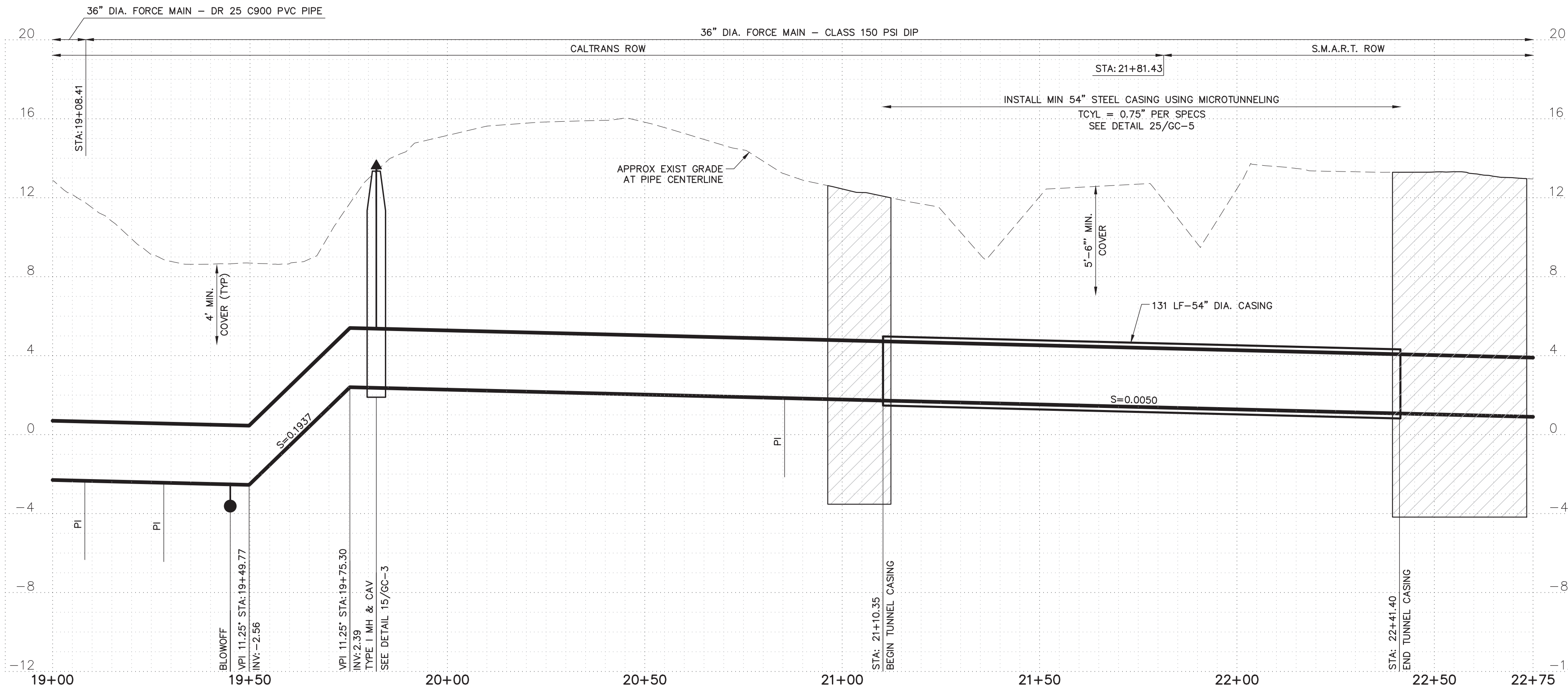
- [EX4] FORCED SEWER MAIN EASEMENT, PER 2799 OR 965, SCR; SPECIFIES RIGHTS TO CONSTRUCT, RECONSTRUCT, MAINTAIN AND OPERATE SEWER FORCE MAIN AND TWO UNDERTRACK CROSSINGS, UPON, ALONG, ACROSS AND BENEATH THE PROPERTY AND TRACKS (HISTORIC) OF THE NORTHWESTERN PACIFIC RAILROAD COMPANY AT OR NEAR PETALUMA, IN DECEMBER OF 1972.
- [EX53] 30 FOOT WIDE EASEMENT TO THE STATE OF CALIFORNIA FOR SEWER PIPELINE PURPOSES, PER DN 2018-000768, SCR.
- [EX54] FUTURE 30 FOOT WIDE SEWER EASEMENT FOR THE CITY OF PETALUMA (FOR THE 33" GRAVITY SEWER MAIN), AS SHOWN ON STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY APPRAISAL MAP "A-10514.2" DATED 4/18/2011, PER DN 2018-000768, SCR.
- [EX55] 50 FOOT WIDE EASEMENT TO THE STATE OF CALIFORNIA FOR SEWER PIPELINE PURPOSES, PER DN 2018-000768, SCR.
- [EX56] FUTURE 50 FOOT WIDE SEWER EASEMENT FOR THE CITY OF PETALUMA (FOR THE 36" FORCE SEWER MAIN), AS SHOWN ON STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY APPRAISAL MAP "A-10514.2" DATED 4/18/2011, PER DN 2018-000768, SCR.

NOTES:

- REPLACEMENT 36" FORCE MAIN. SEE SHEET PP-3A.
- POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY AND WITH ENGINEERS APPROVAL TO MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF EXISTING UTILITY AND OUTSIDE OF 36" FM. MINIMUM COVER SHALL BE 4FT.
- SEE SHEET G-5 FOR POTHOLE DATA.



PLAN
SCALE: 1"=20'



PROFILE
1"=20' H 1"=4' V

REV NO	DESCRIPTION	BY	DATE
1			
2			
3			
4			
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FORCE MAIN PLAN AND PROFILE
PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT

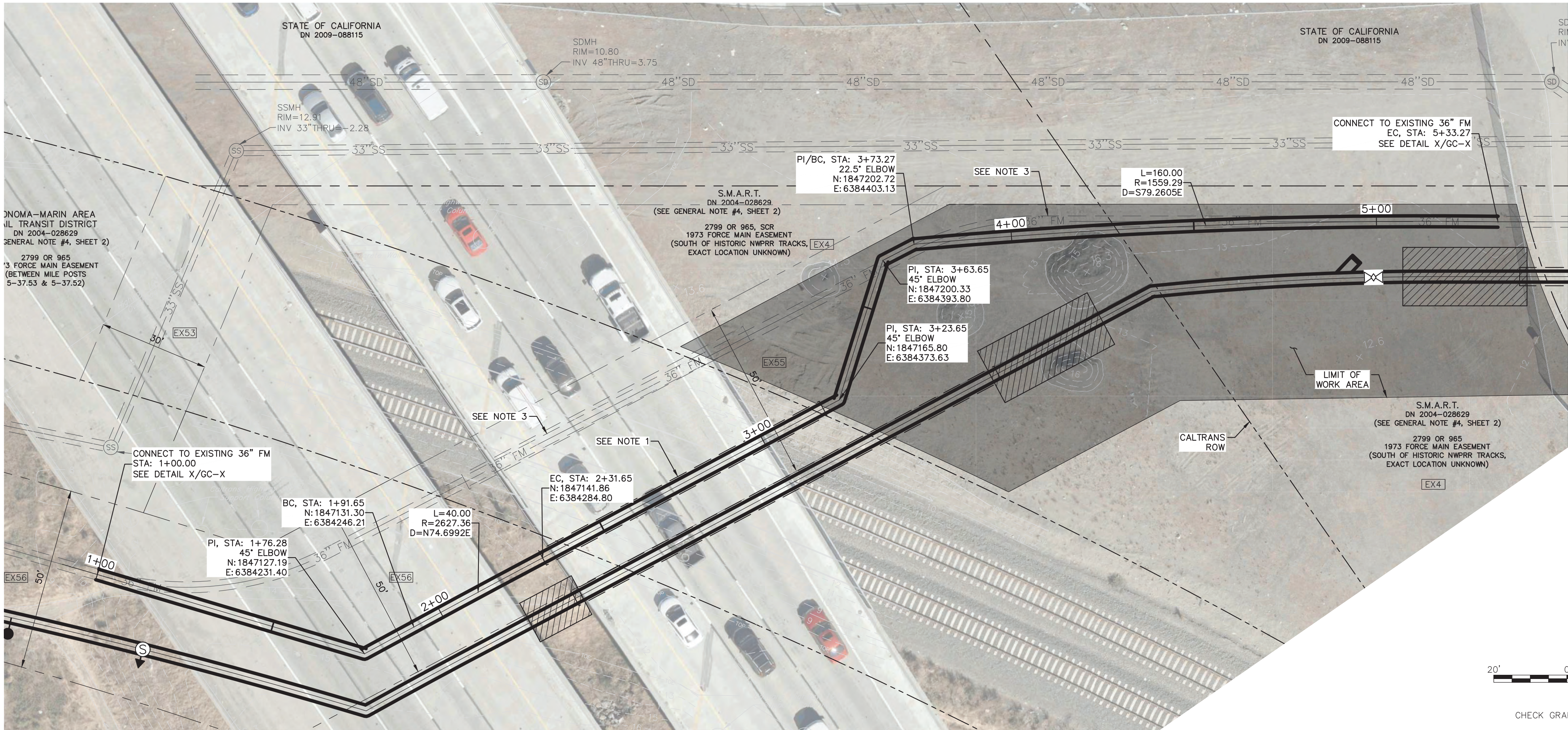


DESIGNED BY: KJW	DATE: MAY 2024
DRAWN BY: ZS	DATE: MAY 2024
QC CHECKED BY: GH	DATE: MAY 2024
PROJECT NO: 001715.00	
SCALE: AS NOTED	
SUBMITTAL: 60% DESIGN SET	DATE: MAY 2024

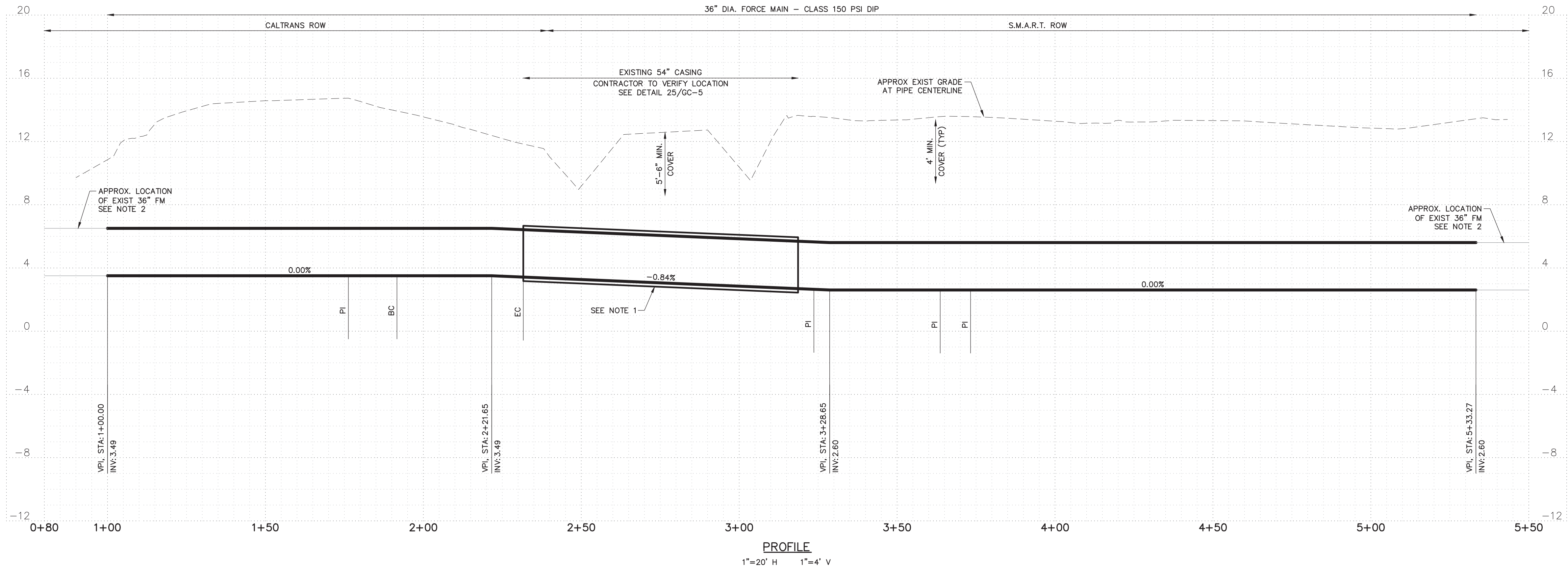
- EXISTING EASEMENT DESIGNATIONS:
- [EX4] FORCED SEWER MAIN EASEMENT, PER 2799 OR 965, SCR; SPECIFIES RIGHTS TO CONSTRUCT, RECONSTRUCT, MAINTAIN AND OPERATE SEWER FORCE MAIN AND TWO UNDERTRACK CROSSINGS, UPON, ALONG, ACROSS AND BENEATH THE PROPERTY AND TRACKS (HISTORIC) OF THE NORTHWESTERN PACIFIC RAILROAD COMPANY AT OR NEAR PETALUMA, IN DECEMBER OF 1972.
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NOTES:

- APPROXIMATE LOCATION OF EXISTING 54" X 87 LF CASING INSTALLED BY CALTRANS WITHIN NEW EASEMENT. CONSTRUCT REPLACEMENT 36" FM INSIDE EXISTING CASING PER DETAIL 25/GC-5.
- POTHOLE EXISTING UTILITY PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY.
- CONTRACTOR SHALL ABANDON OR REMOVE 36" FM AS REQUIRED.



PLAN
SCALE: 1"=20'



PROFILE

1"=20' H 1"=4' V

REV. NO.	DESCRIPTION	BY	DATE
1			
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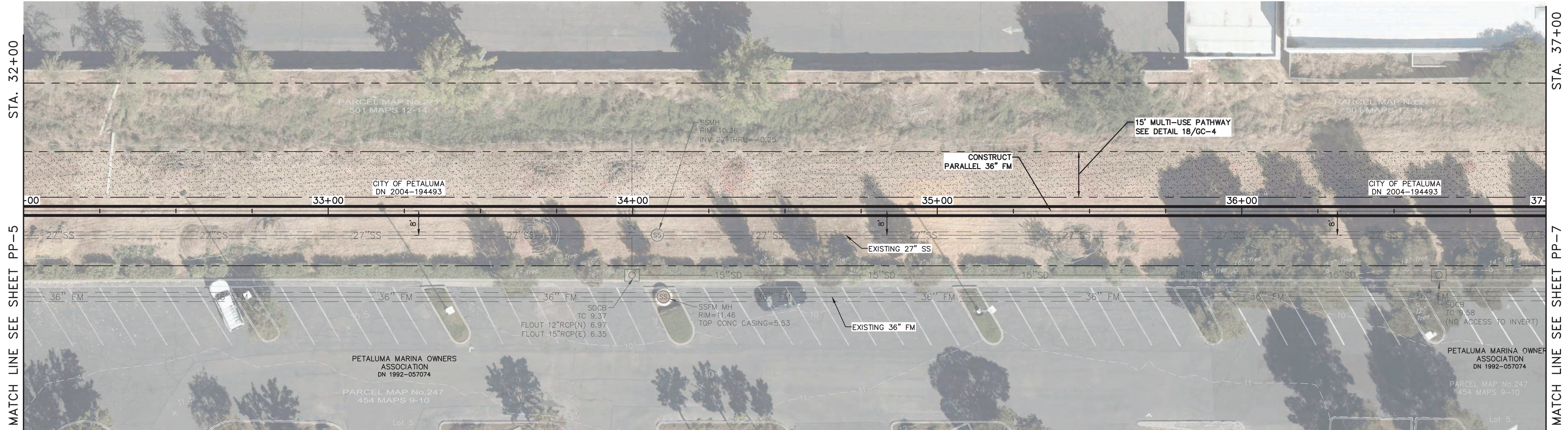


60% Design
Submittal
Not for
Construction

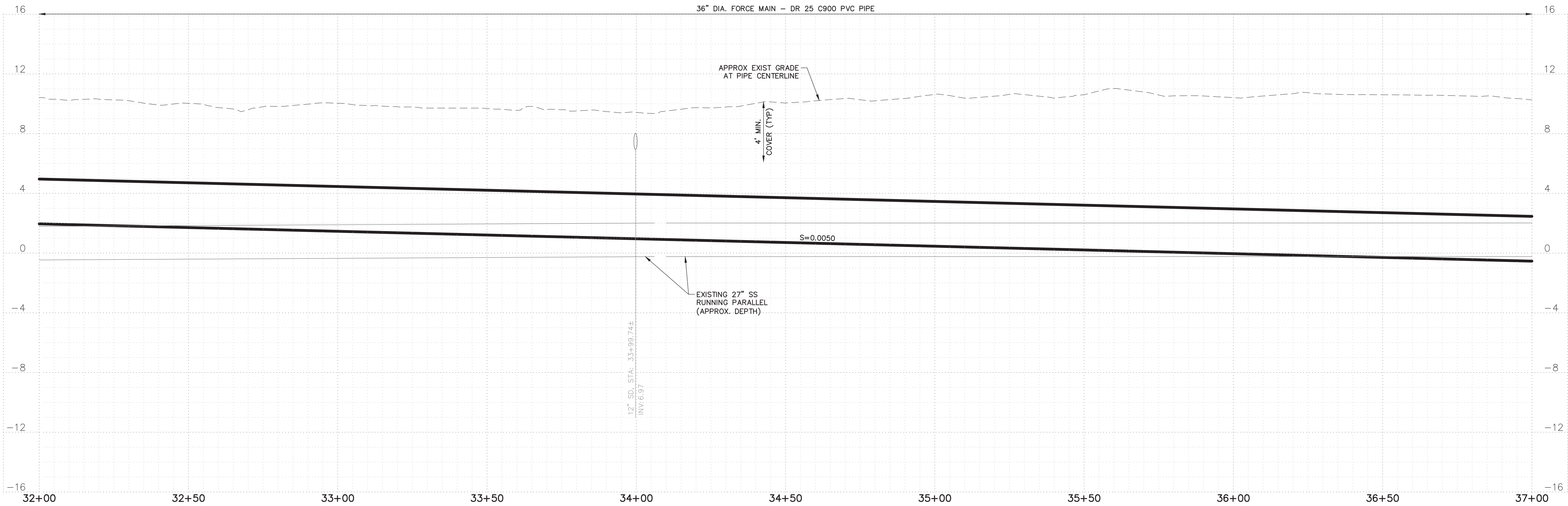
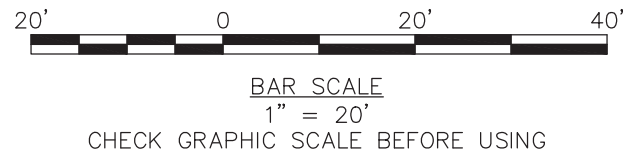
FORCE MAIN PLAN AND PROFILE
PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT



DESIGNED BY: KJW	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
DRAWN BY: ZS	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
QC CHECKED BY: GH	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
PROJECT NO: 001715.00	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
SCALE: AS NOTED	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
SUBMITTAL: 60% DESIGN SET	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024



PLAN
SCALE: 1"=20'



PROFILE
1"=20' H 1"=4' V

REV NO	DESCRIPTION	BY	DATE
1			
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4			
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COMMITMENT & INTEGRITY DRIVE RESULTS

60% Design
Submittal
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FORCE MAIN PLAN AND PROFILE
PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT



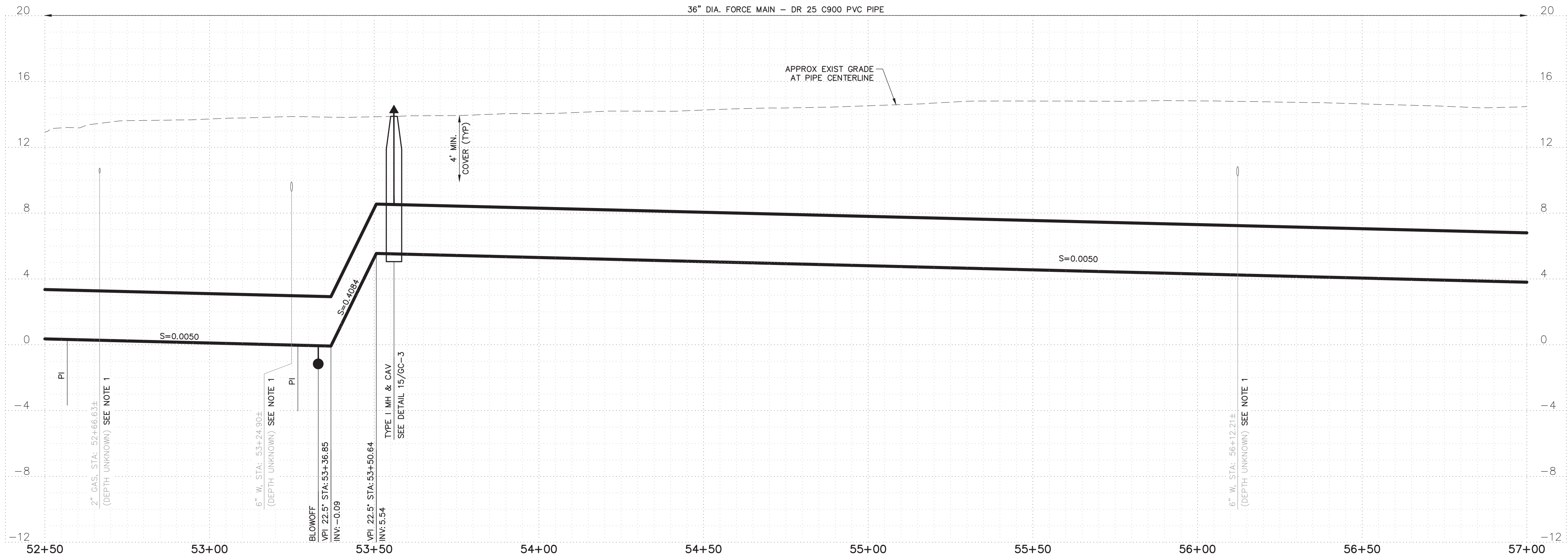
DESIGNED BY: KJW	DATE: MAY 2024
DRAWN BY: ZS	DATE: MAY 2024
QC CHECKED BY: GH	DATE: MAY 2024
PROJECT NO: 001775.00	
SCALE: AS NOTED	
SUBMITTAL: 60% DESIGN SET	DATE: MAY 2024



PLAN
SCALE: 1"=20'

NOTES:

1. POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY AND WITH ENGINEER'S APPROVAL TO MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF EXISTING UTILITY AND OUTSIDE OF 36" FM. MINIMUM COVER SHALL BE 4FT.
2. SEE SHEET G-5 FOR POTHOLE DATA.
3. RECONSTRUCT CURB AND GUTTER PER CITY STANDARD DETAIL 203/GC-7.



PROFILE
1"=20' H 1"=4' V

DESIGNED BY:	DATE MAY 2024	BY:	DATE
DRAWN BY:	25	DESCRIPTION	
QC CHECKED BY:	GH	REV NO	
PROJECT NO:	001715.00		
SCALE:	AS NOTED		
SUBMITTAL 60% DESIGN SET	DATE MAY 2024		

2775 N. California Boulevard, Suite 315
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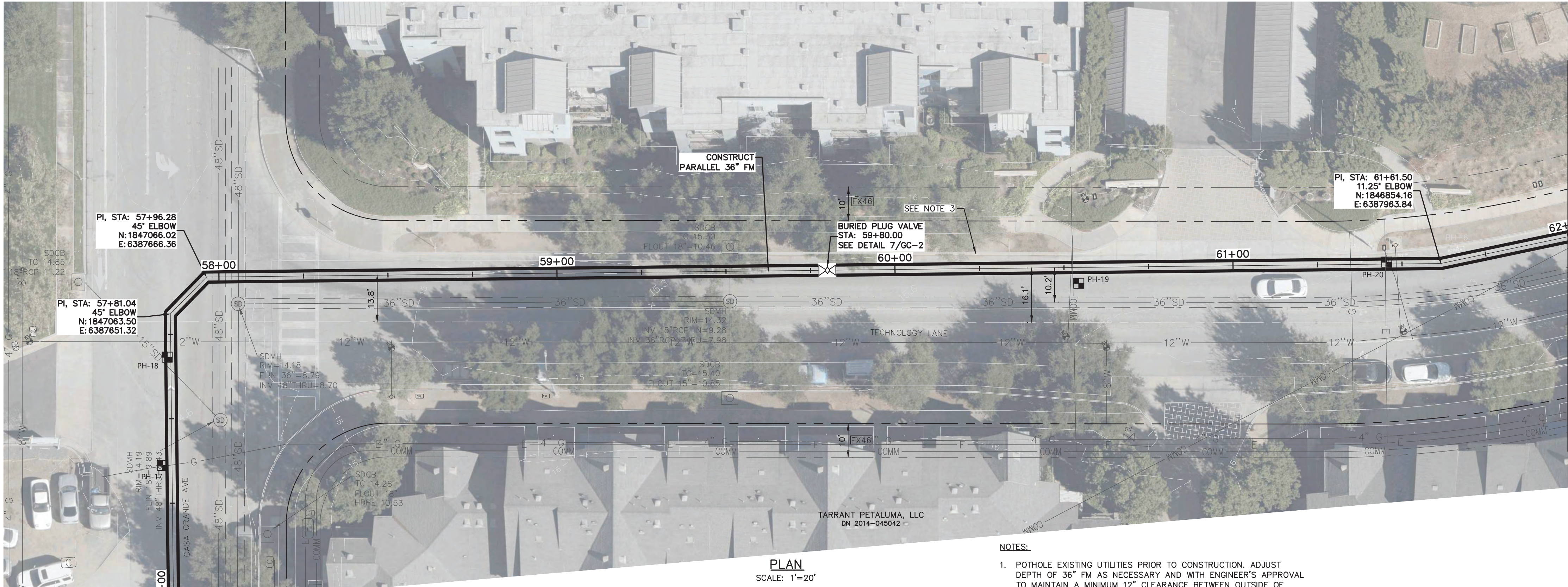
60% Design Submittal Not for Construction

FORCE MAIN PLAN AND PROFILE

PRIMARY INFLUENT PUMP STATION

PARALLEL FORCE MAIN PROJECT

PP-10

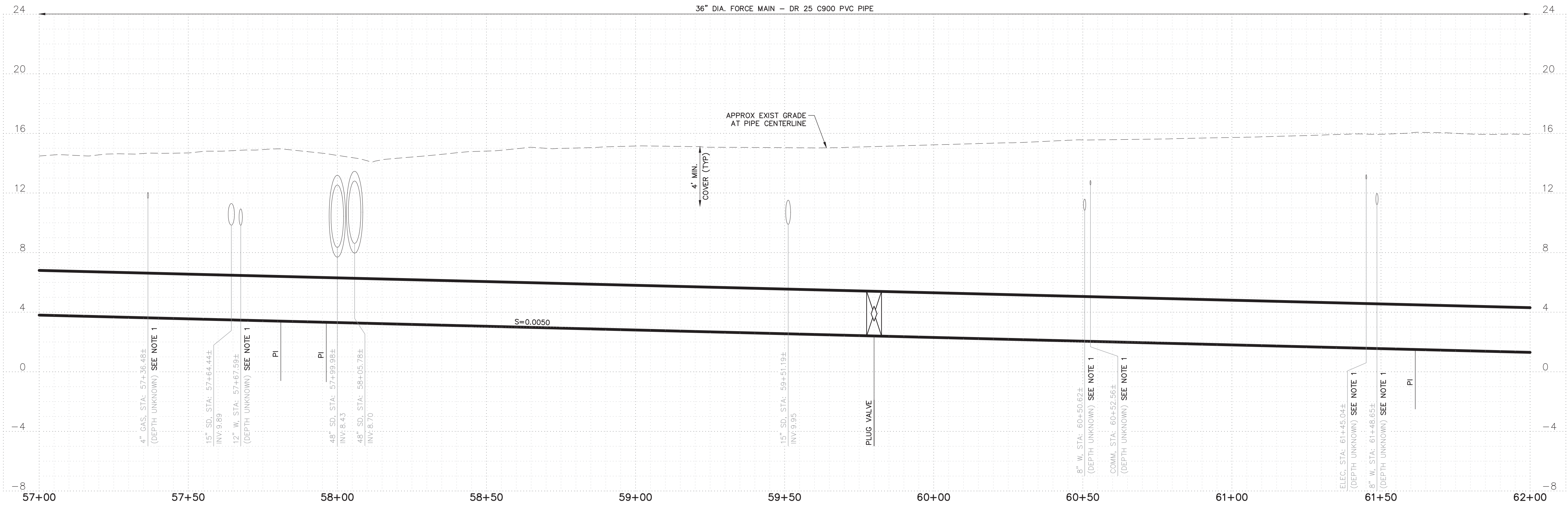
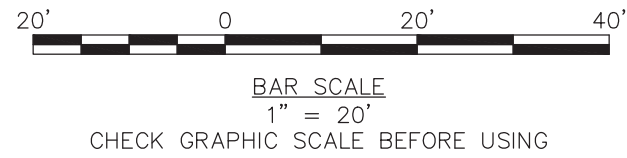


MATCH LINE SEE SHEET PP-10 STA. 57+00

PLAN
SCALE: 1"=20'

NOTES:

1. POT HOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY AND WITH ENGINEER'S APPROVAL TO MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF EXISTING UTILITY AND OUTSIDE OF 36" FM. MINIMUM COVER SHALL BE 4FT.
2. SEE SHEET G-5 FOR POT HOLE DATA.
3. RECONSTRUCT CURB AND GUTTER PER CITY STANDARD DETAIL 203/GC-6.




PROFILE

1"=20' H 1"=4' V


DESIGNED BY: KJW	DATE: MAY 2024	REVISION NO.	DESCRIPTION	BY	DATE
DRAWN BY: ZS	DATE: MAY 2024	1			
QC CHECKED BY: GH	DATE: MAY 2024	2			
PROJECT NO: 001715.00		3			
SCALE: AS NOTED		4			
SUBMITTAL 60% DESIGN SET	DATE: MAY 2024	5			

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COMMITMENT & INTEGRITY DRIVE RESULTS

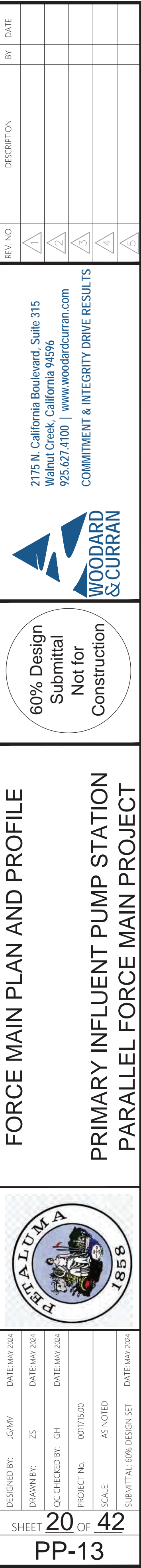
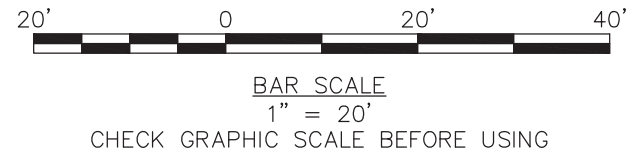
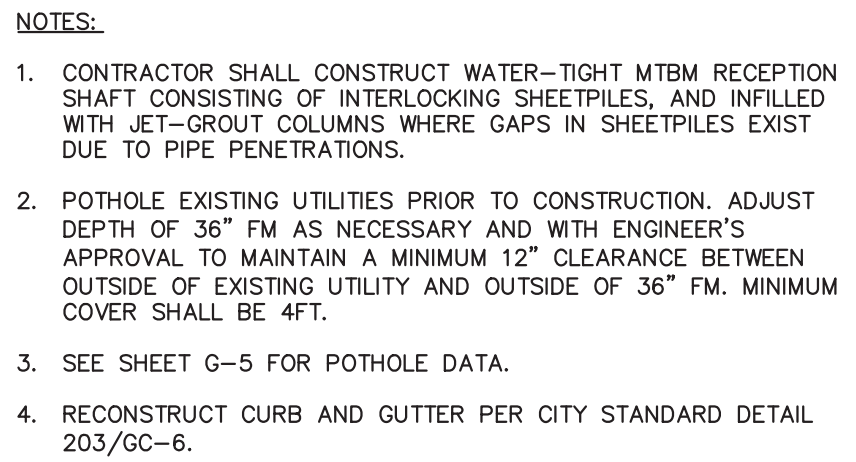
FORCE MAIN PLAN AND PROFILE

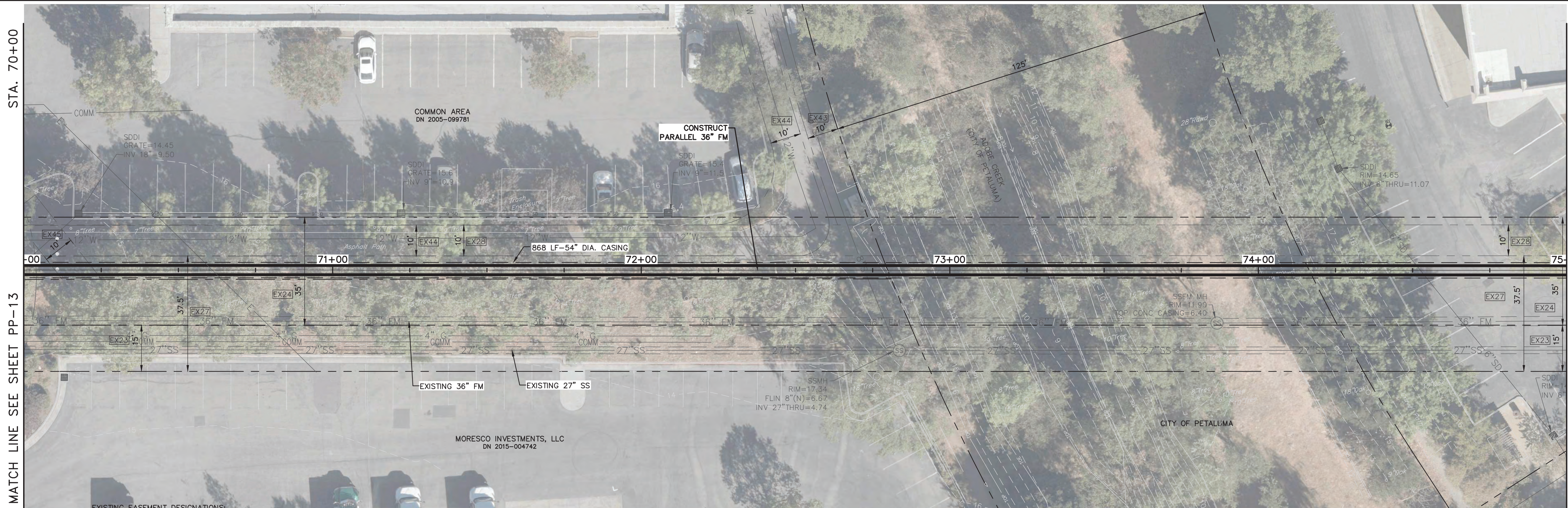


PRIMARY INFLUENT PUMP STATION
PARALLEL FORCE MAIN PROJECT

SHEET 18 OF 42

PP-11

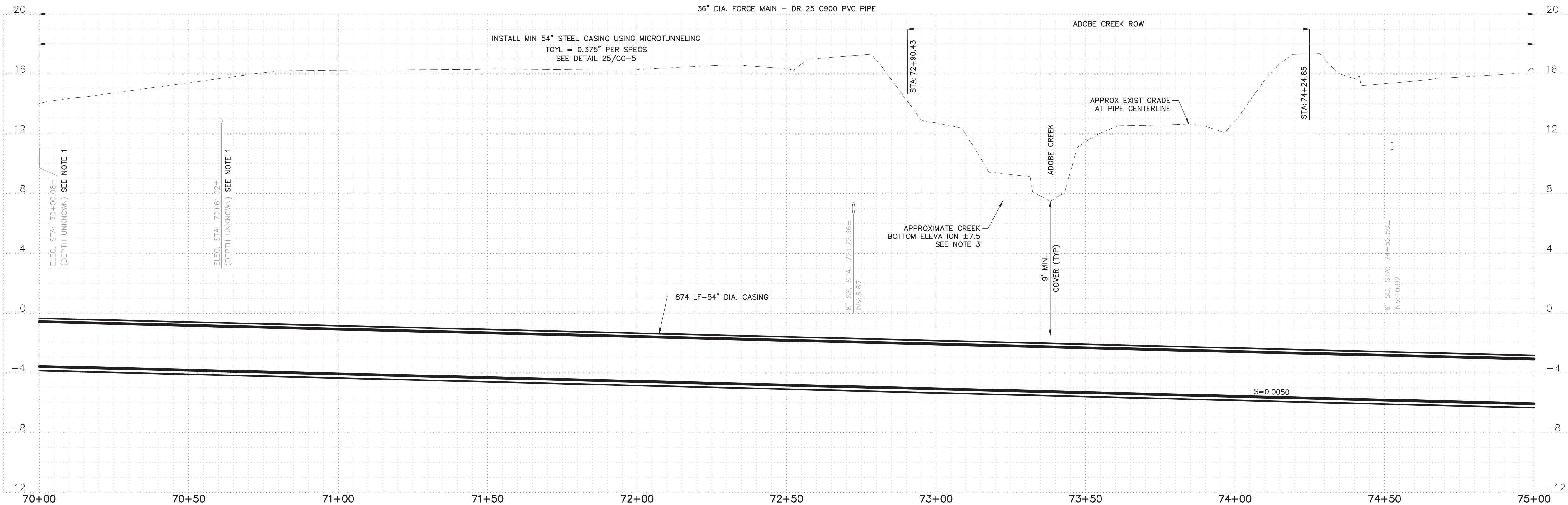
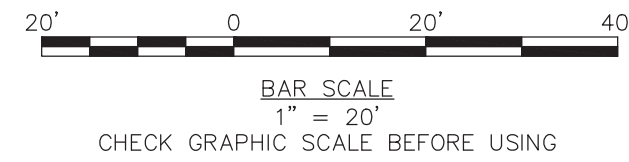




PLAN
SCALE: 1"=20'

NOTES:

- POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ADJUST DEPTH OF 36" FM AS NECESSARY AND WITH ENGINEER'S APPROVAL TO MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF EXISTING UTILITY AND OUTSIDE OF 36" FM. MINIMUM COVER SHALL BE 4FT.
- RECONSTRUCT CURB AND GUTTER PER CITY STANDARD DETAIL 203/GC-6.
- ADOBE CREEK BOTTOM ELEVATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY THE CREEK BOTTOM ELEVATION PRIOR TO TUNNELING.



PROFILE
1"=20' H 1"=4' V

REV NO	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

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COMMITMENT & INTEGRITY DRIVE RESULTS



60% Design
Submittal
Not for
Construction

FORCE MAIN PLAN AND PROFILE

PRIMARY INFLUENT PUMP STATION

PARALLEL FORCE MAIN PROJECT



DESIGNED BY: KJW	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
DRAWN BY: ZS	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
QC CHECKED BY: GH	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
PROJECT NO: 001775.00	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
SCALE: AS NOTED	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024
SUBMITTAL: 60% DESIGN SET	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024	DATE: MAY 2024