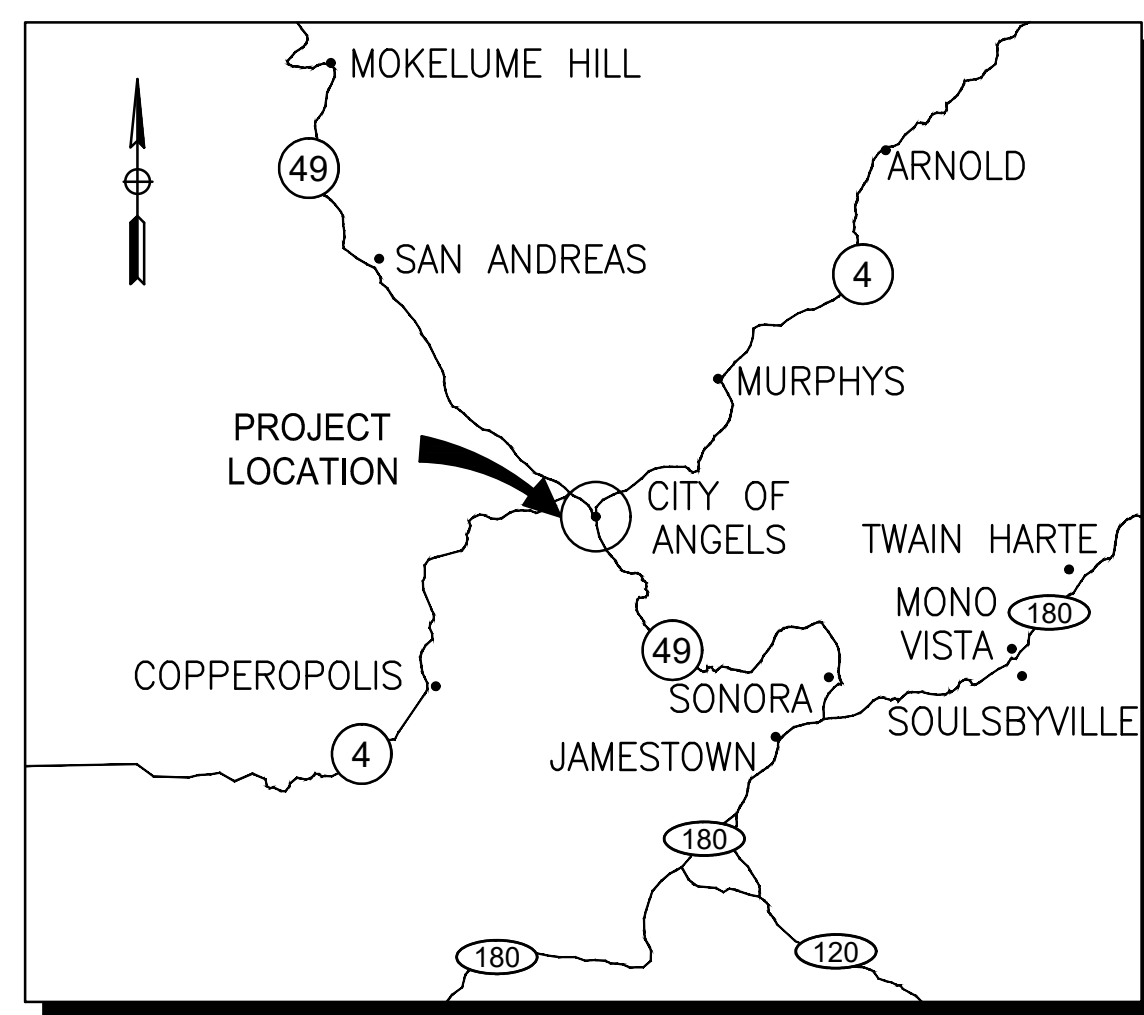


CITY ENGINEER APPROVAL  
 CONSULTANT PROJECT MANAGER  
 REGISTRATION No. 33479  
 LICENSE Exp. DATE 06/30/2026  
 DATE SIGNED 02/04/2025  
 APPROVED AS TO IMPACT ON CITY FACILITIES AND CONFORMANCE WITH APPLICABLE CITY STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

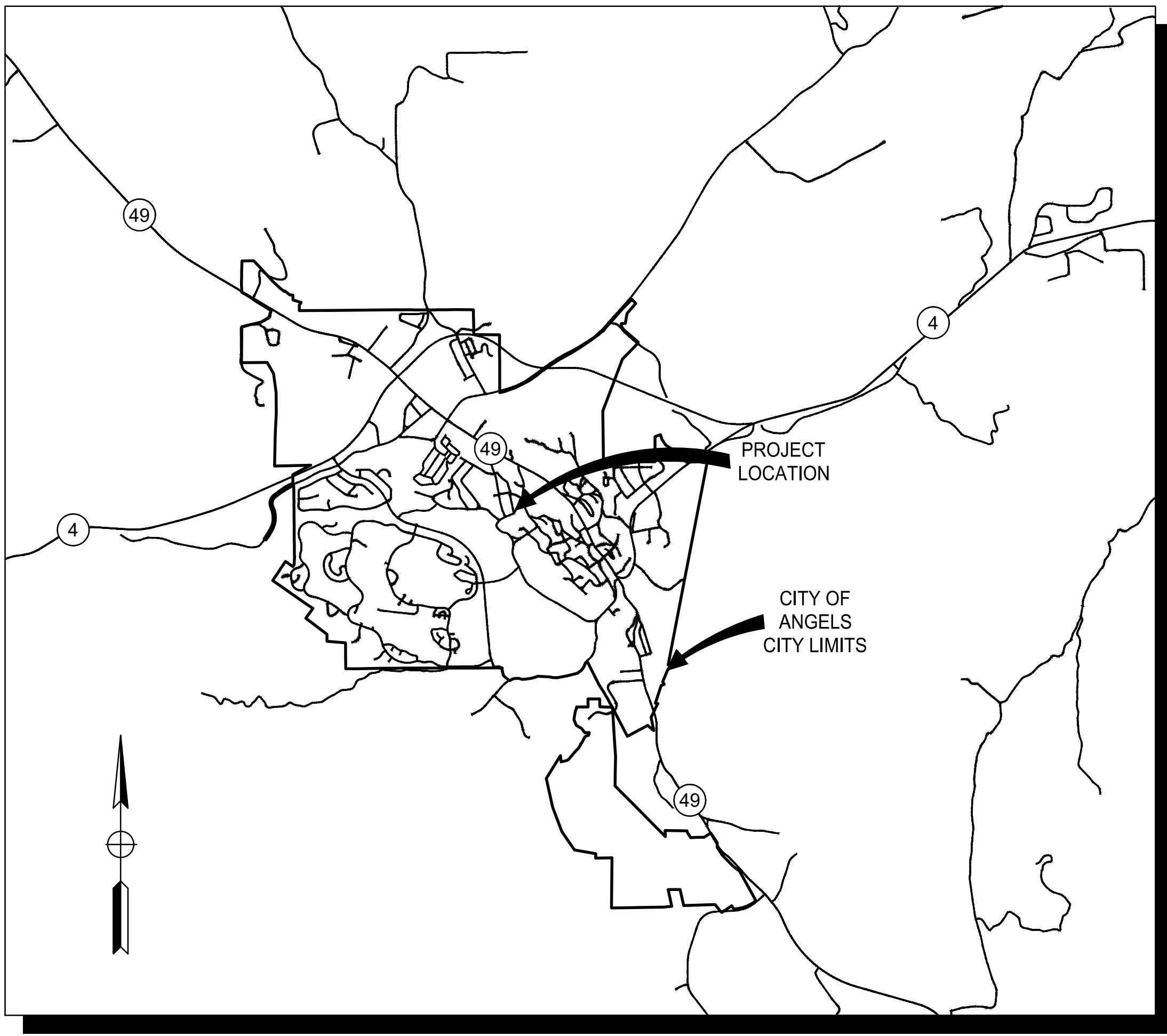
# CITY OF ANGELS CALAVERAS COUNTY, CALIFORNIA

## MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT

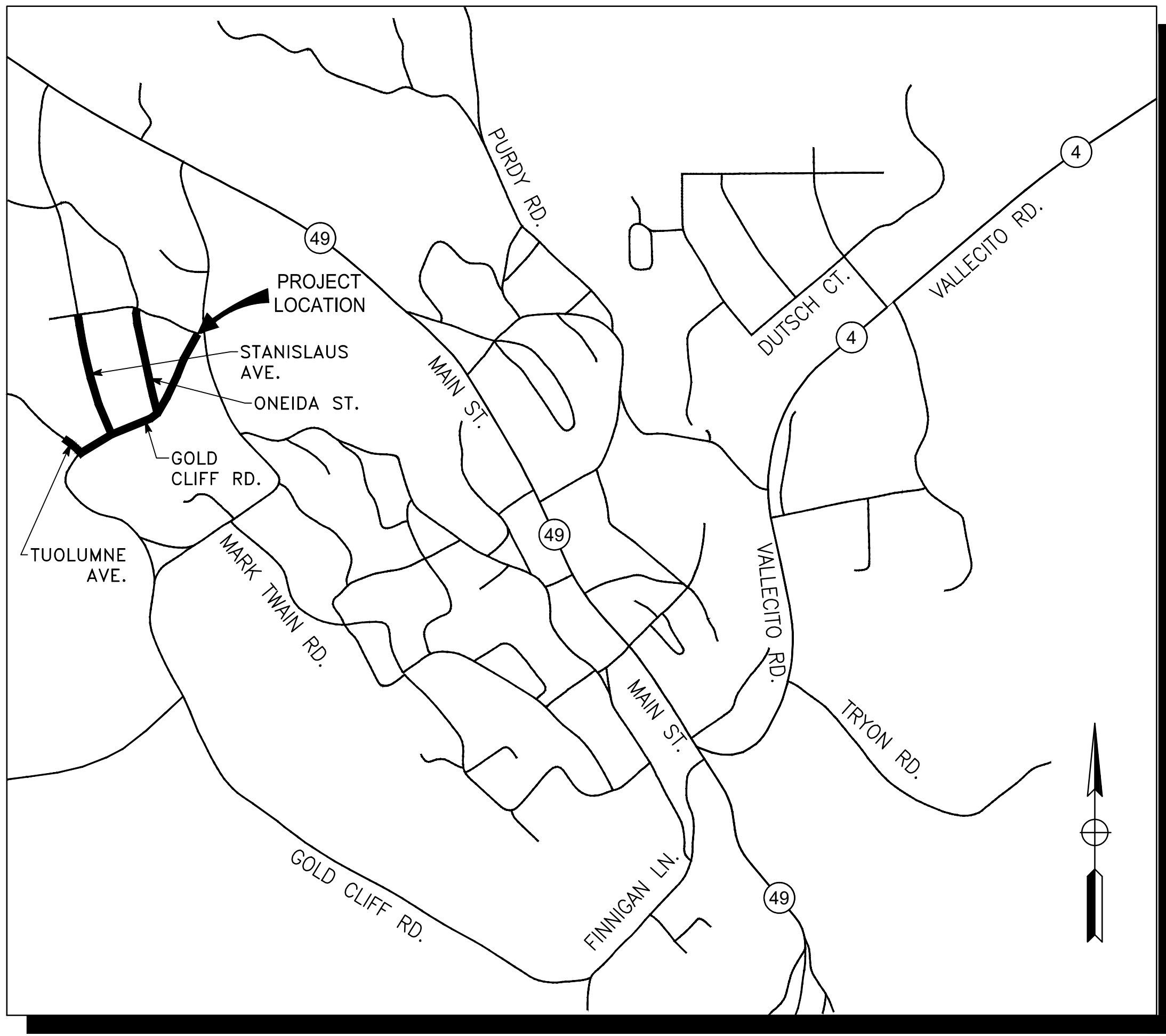
TO BE SUPPLEMENTED BY THE CITY OF ANGELS 2010 IMPROVEMENT STANDARDS



VICINITY MAP  
NO SCALE



CITY OF ANGELS MAP  
NO SCALE



SITE MAP  
NO SCALE



FEBRUARY 2025

G0.10

TITLE SHEET

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337  
 CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

**FINAL BID SET**

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"



USERNAME = coguier  
 DGN FILE = MTWI-R-G0.10.dwg

UNIT 0000 PROJECT NUMBER & PHASE 50182984

LAST REVISION DATE PLOTTED = Feb 04, 2025  
 02-04-25 | TIME PLOTTED = 3:57 pm



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

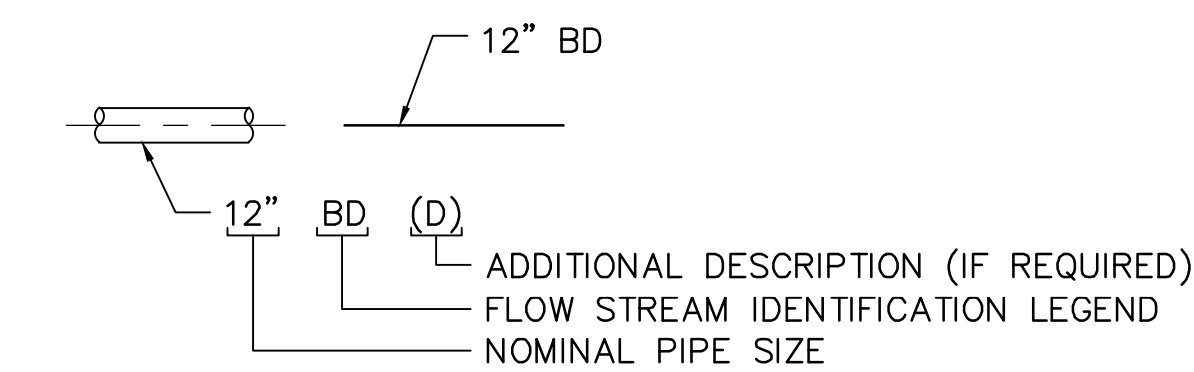
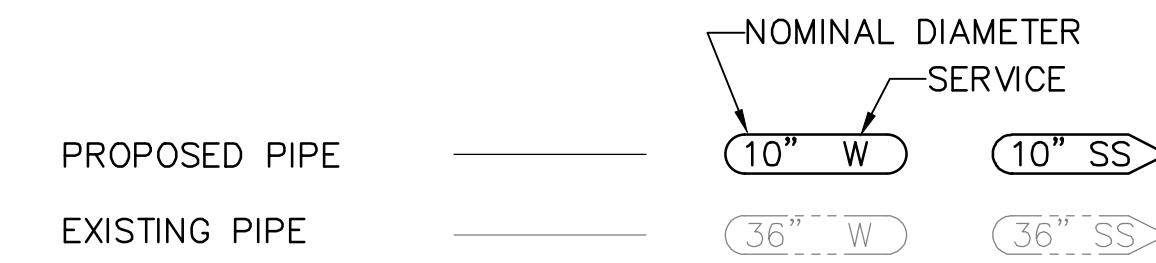
**INDEX OF PLANS**

SHEET NO.	DRAWING	DESCRIPTION
<b>GENERAL</b>		
1	G0.10	TITLE SHEET
2	G0.20	LIST OF DRAWINGS, SYMBOLS AND ABBREVIATIONS
3	G0.30	GENERAL CONSTRUCTION AND SITE PIPING NOTES
4	G0.40	SURVEY CONTROL POINTS
5	G0.50	TRAFFIC CONTROL PLAN
6	G0.60	EROSION CONTROL DETAILS NO. 1
7	G0.61	EROSION CONTROL DETAILS NO. 2
<b>CIVIL</b>		
8	C0.01	EXISTING OVERALL PIPING PLAN
9	C0.02	CONSTRUCTION SEQUENCING PLAN
10	C1.00	PROPOSED WATERLINE IMPROVEMENTS - OVERALL PLAN VIEW
11	C1.01	PROPOSED WATERLINE IMPROVEMENTS - GOLD CLIFF RD PLAN AND PROFILE - 1
12	C1.02	PROPOSED WATERLINE IMPROVEMENTS - GOLD CLIFF RD PLAN AND PROFILE - 2
13	C1.03	PROPOSED WATERLINE IMPROVEMENTS - ONEIDA ST PLAN AND PROFILE
14	C1.04	PROPOSED WATERLINE IMPROVEMENTS - STANISLAUS AVE PLAN AND PROFILE - 1
15	C1.05	PROPOSED WATERLINE IMPROVEMENTS - STANISLAUS AVE PLAN AND PROFILE - 2
16	C1.06	PROPOSED WATERLINE IMPROVEMENTS - TUOLUMNE AVE PLAN AND PROFILE
17	CD0.01	CONSTRUCTION DETAILS NO. 1
18	CD0.02	CONSTRUCTION DETAILS NO. 2
19	CD0.03	CITY OF ANGELS STANDARD DETAILS

**PIPING SYSTEM DESIGNATIONS**

- DR DRAIN
- ELEC, E ELECTRICAL
- SD STORM DRAIN
- SS SANITARY SEWER
- SSFM SANITARY SEWER FORCE MAIN
- WTR, W POTABLE WATER

**PIPING DESIGNATIONS**

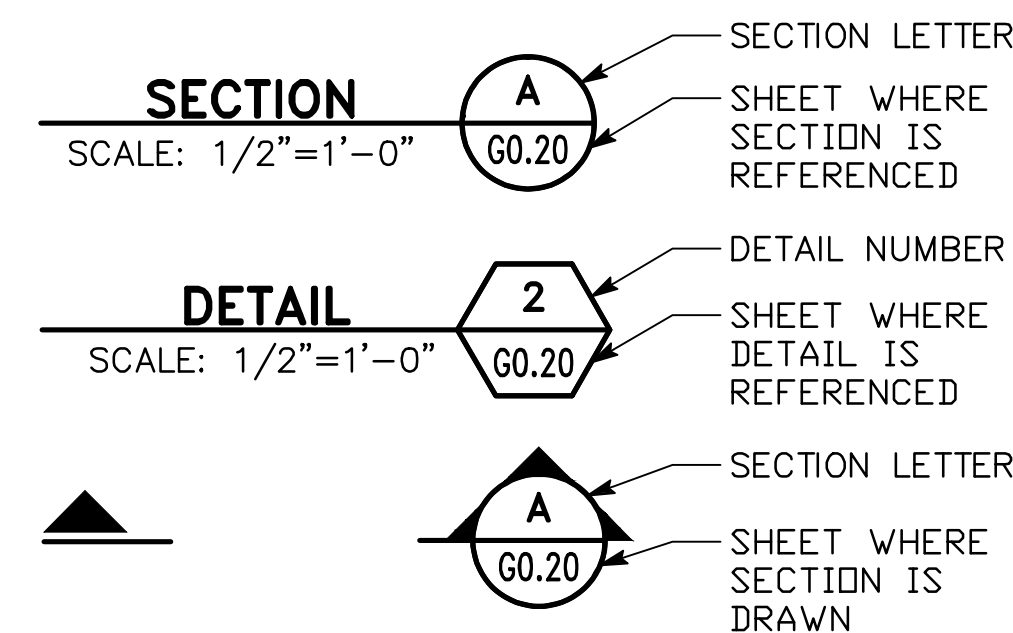


**NOTE:**  
FLOW STREAM IDENTIFICATION LEGEND SHALL BE USED FOR PIPING SCHEDULE SELECTION. ADDITIONAL DESCRIPTION IS USED ONLY TO DESCRIBE THE PROCESS FUNCTION OF THE PIPE. ADDITIONAL DESCRIPTIONS ARE FROM THE STANDARD ABBREVIATIONS DRAWING.

**DRAWING LEGEND**

- G GENERAL
- C CIVIL

**SECTION/DETAIL SYMBOLS**



**GENERAL ABBREVIATIONS**

AB	AGGREGATE BASE	GPS	GLOBAL POSITIONING SYSTEM	PE	PLAIN END
AGG	AGGREGATE	GSP	GALVANIZED STEEL PIPE	PI	POINT OF INTERSECTION
CIPP	CURED IN PLACE PIPE	GV	GATE VALVE	P/L	PROPERTY LINE
ε	CENTERLINE	HGT	HEIGHT	PP	POWER POLE
CONC	CONCRETE	HORIZ	HORIZONTAL	PT	POINT OF TANGENCY
COORD	COORDINATE	ID	INSIDE DIAMETER	PVC	POLYVINYL CHLORIDE
CU FT	CUBIC FEET	IN	INCH	RCP	REINFORCED CONCRETE PIPE
CU IN	CUBIC INCH	INV, I.E.	INVERT ELEVATION	REF	REFER OR REFERENCE
CY	CUBIC YARD	LB/CU FT	POUNDS PER CUBIC FOOT	REINF	REINFORCE(D)
C-C	CENTER TO CENTER	LF	LINEAR FEET	RMJ	RESTRAINED MECHANICAL JOINT
DET	DETAIL	MAX	MAXIMUM	R.O.W.	RIGHT-OF-WAY
DIA, ø	DIAMETER	MECH	MECHANICAL	SCHED	SCHEDULE
DIP	DUCTILE IRON PIPE	MFR	MANUFACTURER	SHT	SHEET
DRWG	DRAWING	MH	MANHOLE	SLP	SLOPE
EA	EACH	MIN	MINIMUM	SQ	SQUARE
EL, ELEV	ELEVATION	MISC	MISCELLANEOUS	SQ FT	SQUARE FOOT
ELL	ELBOW	MJ	MECHANICAL JOINT	SQ IN	SQUARE INCH
ELEC	ELECTRIC	NO.	NUMBER	SST	STAINLESS STEEL
ENGR	ENGINEER	NTS	NOT TO SCALE	STL	STEEL
EX	EXISTING	NIC	NOT IN CONTRACT	TBM	TEMPORARY BENCH MARK
FDC	FIRE DEPARTMENT CONNECTION	OC	ON CENTER	TYP	TYPICAL
FG	FINISHED GRADE	OD	OUTSIDE DIAMETER	UE	UNDERGROUND ELECTRIC
FIG	FIGURE	OG	ORIGINAL GRADE	UON	UNLESS OTHERWISE NOTED
FL	FLANGED	OHE	OVERHEAD ELECTRICAL		
FLR	FLOOR	PC	POINT OF CURVATURE		
FT	FOOT				

**GENERAL SYMBOLS**

- ▲ AIR RELEASE VALVE
- BLOW OFF
- BOLLARD
- ELECTRICAL PULL BOX
- ⊕ FIRE DEPARTMENT CONNECTION
- ⊕ FIRE HYDRANT
- ⊕ GUY ANCHOR
- ⊕ JOINT POLE
- ⊕ LIGHT POLE
- ⊕ POWER POLE
- ⊕ SEWER CLEAN OUT
- ⊕ SEWER MANHOLE
- ⊕ SIGN
- ⊕ STORM DRAIN CATCH BASIN/GRATE
- WATER METER
- ⊕ WATER VALVE

**MATERIAL DESIGNATIONS**

	AGGREGATE BASE (A.B.)		CONCRETE MASONRY WALL		PLASTIC, RUBBER OR NEOPRENE
	AGGREGATE BASE WALK		EARTH		SAND
	ASPHALTIC CONCRETE (A.C.)		EARTHWORK/GRADING		STUCCO
	CHECKERED PLATE		NATIVE ROCK		
	CONCRETE		GRATING		

**UTILITY CONTACTS**

CODE	NAME	ADDRESS	CONTACT NAME	PHONE NUMBER
CAMGAS	CAMPORA PROPANE SERVICES	CAMGAS PO BOX 478 ANGELS CAMP, CA 95222	DESIREE MACLEAN	(209)736-0449
COMCLV	COMCAST-CALAVERAS	6505 TAM O'SHANTER DR. STOCKTON, CA 95210	KRIS COOK, REG. CONS. SPECIALIST	(925)453-6500, EXT. 3043190
JSWGAS	J.S. WEST PROPANE	PO BOX 37 ANGELS CAMP, CA 95222	KATLIN LINKER	(209)736-4799
PACBEL	PACIFIC BELL	---	SCOTT ELSASSER	(209)474-4397 se1672@att.com
PGEMDO	PGE DISTR MODESTO	---	---	(877)743-7782 DelineationMapReq uests@pge.com
WATER SEWER STORM DRAIN	CITY OF ANGELS	CITY OF ANGELS 200 B. MONTE VERDA STREET ANGELS CAMP, CA 95222	DAVE POROVICH	(209)736-2181

**FINAL BID SET**

LIST OF DRAWINGS, SYMBOLS AND ABBREVIATIONS

G0.20



x  
x  
x  
x  
x

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT	CONSULTANT PROJECT MANAGER		CALCULATED-DESIGNED BY		C. AGUIAR		REVISED BY		C. AGUIAR	
		D. RICHARD		CHECKED BY		K. TRAN		DATE REVISED		02/04/25	

**GENERAL CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE CITY ENGINEER'S INTERPRETATION OR CORRECTION THEREOF SHALL BE CONCLUSIVE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES AND PAYING ALL ASSOCIATED FEES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS AND SURVEY REFERENCE POINTS, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS DURING THE PERFORMANCE OF THIS CONTRACT WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UTILITY COMPANIES A MINIMUM OF FORTY-EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES WITHOUT ADDITIONAL COST TO THE CITY. ALL REPAIR OR RELOCATION OF WATER, SEWER, OR STORM DRAIN FACILITIES SHALL BE ACCOMPLISHED PER CITY STANDARDS AND SPECIFICATIONS.
- PRIOR TO COMMENCING WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL AFFECTED UNDERGROUND UTILITIES MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY THE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. THE COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICES.

- PRIOR TO BEGINNING WORK, CONTACT CAL-OSHA AT (559) 445-5302 FOR PERMIT REQUIREMENTS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE DESIGN ENGINEER.
- EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, CHAPTER 9 OF THE STATE OF CALIFORNIA LABOR CODE, AND APPLICABLE LOCAL CODES OR ORDINANCES.
- WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO: SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES: (A) "PRIOR TO OPENING AN EXCAVATION, THE CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE LOCATION OF SUCH UNDERGROUND INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION BY THE CONTRACTOR.
- DUST SHALL BE CONTROLLED PER SECTION 10 OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS AND PROJECT TECHNICAL SPECIFICATIONS.
- ALL DRAINAGE PATTERNS SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION.
- THE CITY SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED.
- A FOURTEEN (14) DAY NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION AND THE CITY OR

ASSOCIATED UTILITY COMPANY TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED PREVIOUSLY.

- EXISTING OVERHEAD ELECTRIC AND TELEPHONE TRANSMISSION LINES MAY BE LOCATED AT OR NEAR THE SITE. THESE OVERHEAD UTILITIES ARE NOT SHOWN ON THE DRAWINGS. EXTREME CAUTION SHALL BE USED WHEN WORKING IN THE VICINITY OF OVERHEAD UTILITIES SO AS TO PREVENT INJURY TO WORKMEN OR DAMAGE TO THE UTILITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER, SEWER AND/OR DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE PROPOSED IMPROVEMENTS ARE PLACED, FUNCTIONING, AND ACCEPTED BY THE CITY.
- EXACT LIMITS OF PAVEMENT REMOVAL AND RECONSTRUCTION SHALL BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
- DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING FEATURES DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
- THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PROTECTING EXISTING TREES. ANY TREE DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE CITY.
- CALL PG&E 48 HOURS IN ADVANCE TO REQUEST "STANDBY" WHEN WORKING NEAR (WITHIN 10') OR CROSSING HIGH PRESSURE FEEDER GAS MAINS AS DESIGNATED ON THE PLANS OR IN THE FIELD. CONTACT PG&E BY CALLING (877)743-7782.
- ALL CURB, GUTTER AND SIDEWALK SHOWN TO BE REMOVED SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT OR SCORE MARK. DAMAGE TO EXISTING CURB, GUTTER, AND SIDEWALK WHICH IS SHOWN ON THE PLANS TO REMAIN, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL UNDERGROUND WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE (CITY DATUM) OF ALL UNDERGROUND IMPROVEMENTS AND SHALL BE DELIVERED TO THE CITY PRIOR TO CONSIDERATION OF THE ACCEPTANCE OF WORK.
- FEATURES SHOWN ON THE AERIAL PHOTOS AND SITE PHOTOGRAPHS ARE FOR INFORMATION ONLY AND MAY HAVE CHANGED SINCE PHOTOS WERE TAKEN. THE PHOTOS ARE NOT RECTIFIED AND MAY HAVE VARYING LEVELS OF DISTORTION. PHOTO SCALE IS APPROXIMATE.
- ALL STRUCTURES, PLANTINGS, OR OTHER FIXTURES NOT SPECIFICALLY NOTED TO BE REMOVED SHALL BE PROTECTED IN PLACE. IF DAMAGED AS PART OF WORK, ALL DAMAGED UTILITIES SHALL BE REPLACED

IN AS GOOD OR BETTER THAN EXISTING CONDITIONS.

- CONTRACTOR SHALL COORDINATE AND NOTIFY THE CITY ENGINEER WHEN WORK IS READY FOR INSPECTIONS. PRESENCE OR ABSENCE OF CITY ENGINEER WILL NOT RELIEVE CONTRACTOR OF FULL RESPONSIBILITY FOR PROPER PERFORMANCE OR WORK.
- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS THAT ARE TO BE REMOVED FROM THE SITE INCLUDING SURPLUS EXCAVATION MATERIALS AND DEBRIS. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE, NEAT, AND ORDERLY CONDITION. CONTRACTOR SHALL DELIVER MATERIALS OR EQUIPMENT TO BE SALVAGED AND RETURNED TO THE CITY AT THE LOCATION TO BE DETERMINED BY THE CITY.
- SOME EXISTING ABANDONED UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES. WHERE SHOWN, ABANDONED UTILITIES ARE BASED ON FIELD OBSERVATIONS AND RECORD DOCUMENTS, AND MAY NOT BE ACCURATE. NO ATTEMPT WAS MADE TO IDENTIFY OR SHOW ALL ABANDONED UTILITIES. CONTRACTOR SHALL VERIFY ABANDONMENT OF UTILITIES NOT SHOWN ON THE PLANS PRIOR TO DISTURBANCE.
- THE EXISTING SEWERS ARE KNOWN TO HAVE HIGH CONCENTRATIONS OF TOXIC AND/OR EXPLOSIVE GASES. WASTEWATER MAY CONTAIN INFECTIOUS AND/OR CONTAGIOUS DISEASES AND THE CONTRACTOR SHALL OBSERVE ALL NECESSARY PRECAUTIONS.
- MANHOLE ENTRY AND/OR ENTRY TO ANY EXCAVATION GREATER THAN FOUR (4) FEET DEEP SHALL BE IN FULL COMPLIANCE WITH THE CONFINED SPACE ENTRY REQUIREMENTS OF CALIFORNIA AND FEDERAL OSHA.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND CITY LAWS AND ORDINANCES RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT NOT LIMITED TO SHORING OF TRENCHES, VENTILATION OF CONFINED SPACES, CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS, INCLUDING PROVISIONS AND MAINTENANCE OF BARRICADES, TRENCH COVERS, AND PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS AS REQUIRED.
- A 48-HOUR NOTICE SHALL BE PROVIDED TO THE CITY AND AFFECTED RESIDENTS IF ANY DRIVEWAY WILL BE BLOCKED DURING THE CONSTRUCTION HOURS; NO DRIVEWAY SHALL REMAIN BLOCKED OR OTHERWISE INACCESSIBLE OUTSIDE OF CONSTRUCTION HOURS.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS FOR EMERGENCY VEHICLES THROUGH THE CONSTRUCTION AREA AT ALL TIME.

**GENERAL SITE PIPING NOTES:**

- EXISTING UTILITIES ARE SHOWN BASED ON A REVIEW OF HISTORICAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL POTHOLE TO VERIFY IN FIELD HORIZONTAL AND VERTICAL LOCATION OF UTILITIES WHEN NECESSARY TO RELY ON LOCATION FOR CONSTRUCTION. POTHOLING FOR CROSSINGS SHALL OCCUR A MINIMUM OF SIX WEEKS PRIOR TO UNDERGROUND CONSTRUCTION IN THE AREA BEING POTHOLED.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AT ALL UTILITY CROSSINGS.
- PIPELINE STATION SHOWN IS APPROXIMATE.
- PROVIDE MINIMUM CLEARANCE OF 12" AT PIPELINE CROSSINGS UNLESS INDICATED OTHERWISE. SHOULD THE RESULT OF POTHOLING OF EXISTING UTILITIES AT PROPOSED CROSSINGS INDICATES THAT 12" CLEARANCE CANNOT BE OBTAINED WITH PROPOSED VERTICAL ALIGNMENT OF WATERLINE, ADJUST ALIGNMENT OF PROPOSED WATERLINE AS APPROVED BY THE CITY.
- PROVIDE MINIMUM LONGITUDINAL CLEARANCE OF 12" BETWEEN PIPELINES UNLESS INDICATED OTHERWISE.
- DO NOT CUT PIPELINES TO BE ABANDONED UNTIL DIRECTED BY THE CITY.
- WHERE CONNECTIONS ARE TO BE MADE TO EXISTING FACILITIES AND PIPING, CONTRACTOR SHALL EXPOSE EXISTING PIPING AND DEVELOP INFORMATION TO FACILITATE PIPE FABRICATION. EXPOSURE AND MEASUREMENTS SHALL BE ACCOMPLISHED PRIOR TO SUBMITTAL OF PIPING SHOP DRAWINGS.
- ALL OPEN TRENCHES SHALL BE APPROPRIATELY PLATED OVER WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING IN THAT TRENCH.
- FOR PIPE TRENCH BEDDING AND BACKFILL FOR WATERLINE, SEE DETAIL 1, SHEET CD0.01.
- WHERE CONNECTIONS ARE TO BE MADE TO EXISTING FACILITIES AND PIPING, CONTRACTOR SHALL EXPOSE EXISTING PIPING AND DEVELOP INFORMATION TO FACILITATE PIPE FABRICATION. EXPOSURE AND MEASUREMENTS SHALL BE ACCOMPLISHED PRIOR TO SUBMITTAL OF PIPING SHOP DRAWINGS.
- PROVIDE WATER VALVE AND LOCATING WIRE INSTALLATION PER CITY STANDARD WS-1, VALVE AND LOCATING WIRE INSTALLATION.
- FOR DEAD END BLOW OFF ASSEMBLY, SEE CITY STANDARD DRAWING WS-4, DEAD END BLOW OFF ASSEMBLY.
- PROVIDE FIRE HYDRANT PER CITY STANDARD DRAWING WS-6, FIRE HYDRANT AND BLOW-OFF ASSEMBLY.
- PROVIDE, THRUST BLOCKS AT FITTINGS ON PRESSURED PIPELINES PER CITY STANDARD DRAWINGS WS-13, THRUST BLOCK DETAILS.

CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

**ENVIRONMENTAL REQUIREMENTS:**

- CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE LIMITED TO THE DESIGNATED WORK AREA.
- ALL EQUIPMENTS SHALL BE RE-FUELED AND SERVICED AT ADJACENT CONSTRUCTION STAGING AREAS.
- ALL EXCAVATED TRENCHES SHALL BE COVERED AT THE END OF EACH WORKING DAY TO PREVENT INADVERTENT ENTRAPMENT OF ANIMALS.
- ALL EQUIPMENT AND VEHICLES SHALL BE CLEANED TO REMOVE DIRT AND WEED SEEDS PRIOR TO BEING TRANSPORTED OR DRIVEN TO OR FROM THE PROJECT SITE.
- CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY AND 8:00 AM TO 4:00 PM ON SATURDAYS UNLESS APPROVED BY THE CITY. NO CONSTRUCTION ACTIVITIES SHALL OCCUR ON SUNDAYS OR CITY RECOGNIZED HOLIDAYS.
- VIBRATION-GENERATING CONSTRUCTION EQUIPMENT SHALL NOT GENERATE VIBRATION LEVELS THAT EXCEED 0.1 IN./SEC. PPV AT HISTORIC STRUCTURES OR OCCUPIED RESIDENCES.

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
 MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT

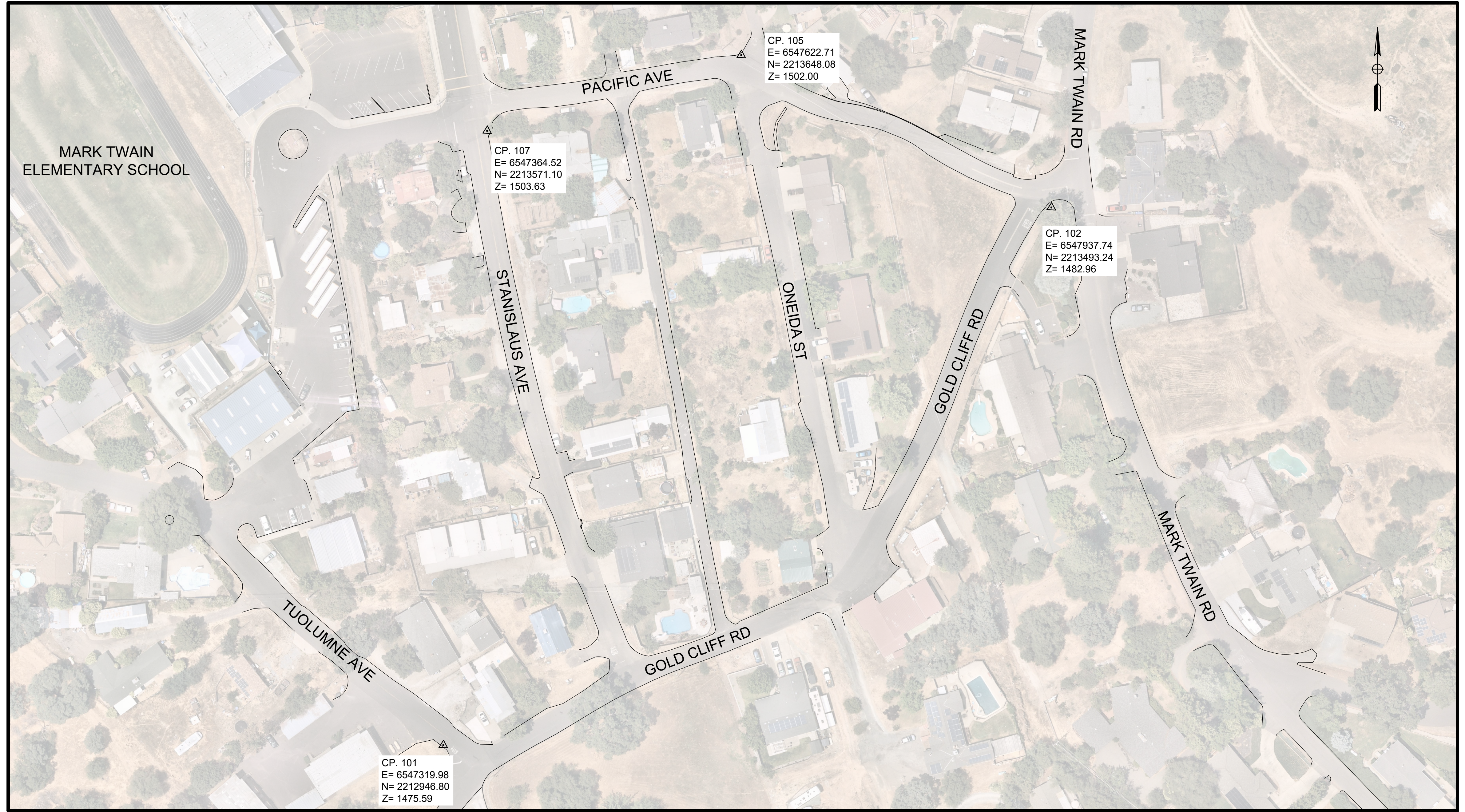
CONSULTANT PROJECT MANAGER  
 D. RICHARD

CALCULATED/DESIGNED BY  
 C. AGUIAR

CHECKED BY  
 K. TRAN

REVISED BY  
 C. AGUIAR

DATE REVISED  
 02/04/25



**Dewberry**

ADAM R. BISHOP  
 No. 9585  
 PROFESSIONAL LAND SURVEYOR  
 STATE OF CALIFORNIA

CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

SHEET No. 4 TOTAL SHEETS 19

**SURVEY CONTROL POINTS**

SCALE: 1" = 60'

**UTILITY NOTE:**  
 UNICO ENGINEERING HAS FIELD LOCATED ALL VISIBLE UTILITIES AND APPURTENANT STRUCTURES SHOWN HEREON. THE LOCATIONS OF ANY UNDERGROUND UTILITIES SHOWN HEREON WERE BASED UPON FIELD EVIDENCE. ACTUAL DEPTHS AND ALIGNMENTS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

**DATUM NOTE:**  
 HORIZONTAL DATUM: NAD 83 CALIFORNIA ZONE 3  
 EPOCH DATE: 2010.00

VERTICAL DATUM: LOCAL DATUM (TO ACHIEVE NAVD 88 ELEVATIONS, USE A CONVERSION OF +94.66 FEET TO ANY ELEVATION PROVIDED HEREON)

**SURVEY CONTROL POINTS:**

PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	2212946.80	6547319.98	1475.59	CP MAG WASHER
102	2213493.24	6547937.74	1482.96	CP 60D
105	2213648.08	6547622.71	1502.00	CP MAG
107	2213571.10	6547364.52	1503.63	CP MAG

USERNAME =>caguilar  
 DWG FILE => MWTI-R-GO.40.dwg

RELATIVE BORDER SCALE IS IN INCHES

**FINAL BID SET**

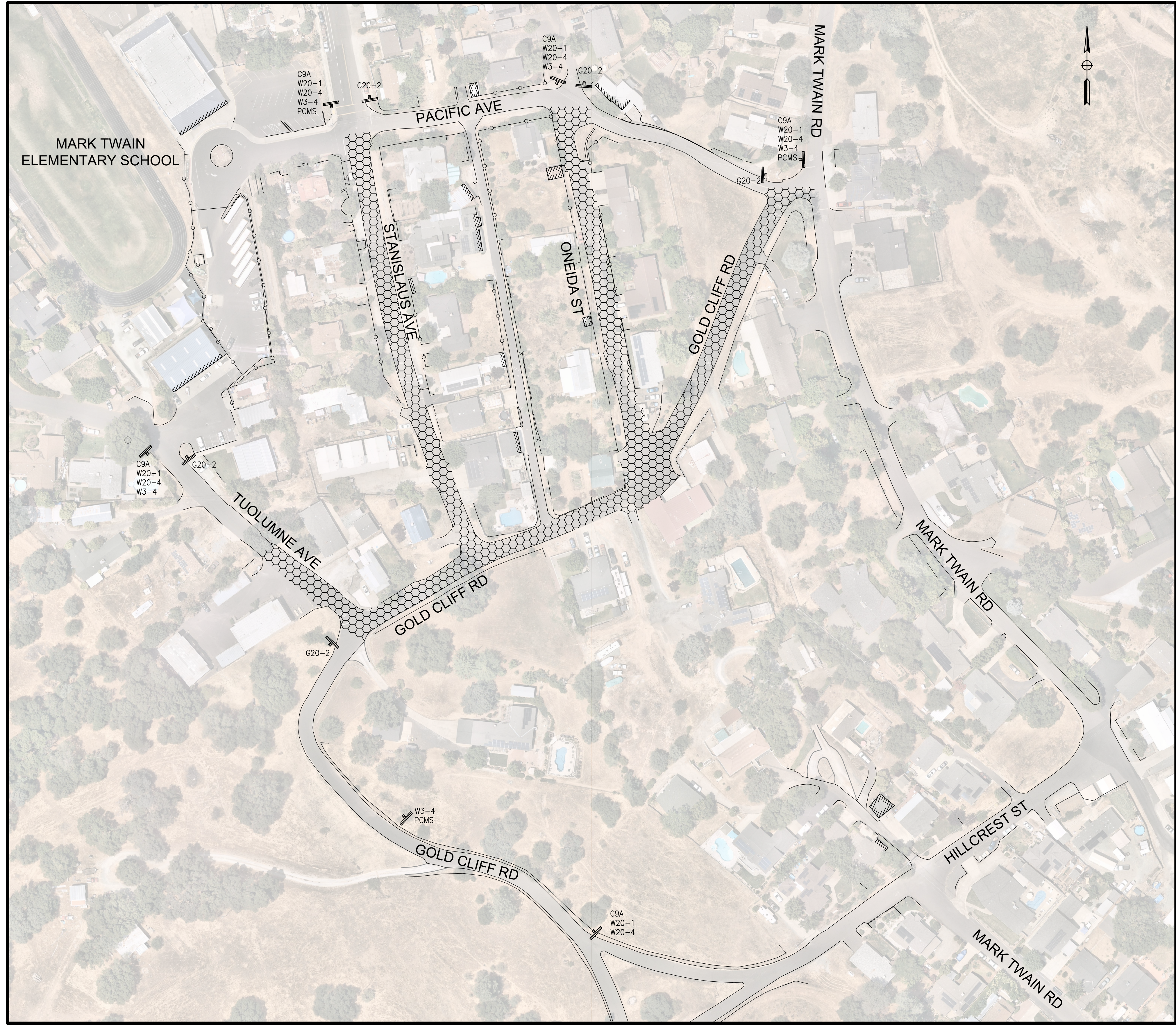
SURVEY CONTROL POINTS

UNIT 0000 PROJECT NUMBER & PHASE 50182984

GO.40

DATE PLOTTED => Feb 04, 2025

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT	CONSULTANT PROJECT MANAGER	D. RICHARD	CALCULATED/DESIGNED BY	C. AGUIAR	REVISOR	C. AGUIAR
		CHECKED BY	K. TRAN	DATE	02/04/25		



**TRAFFIC CONTROL PLAN**

SCALE: 1" = 60'

**Dewberry**

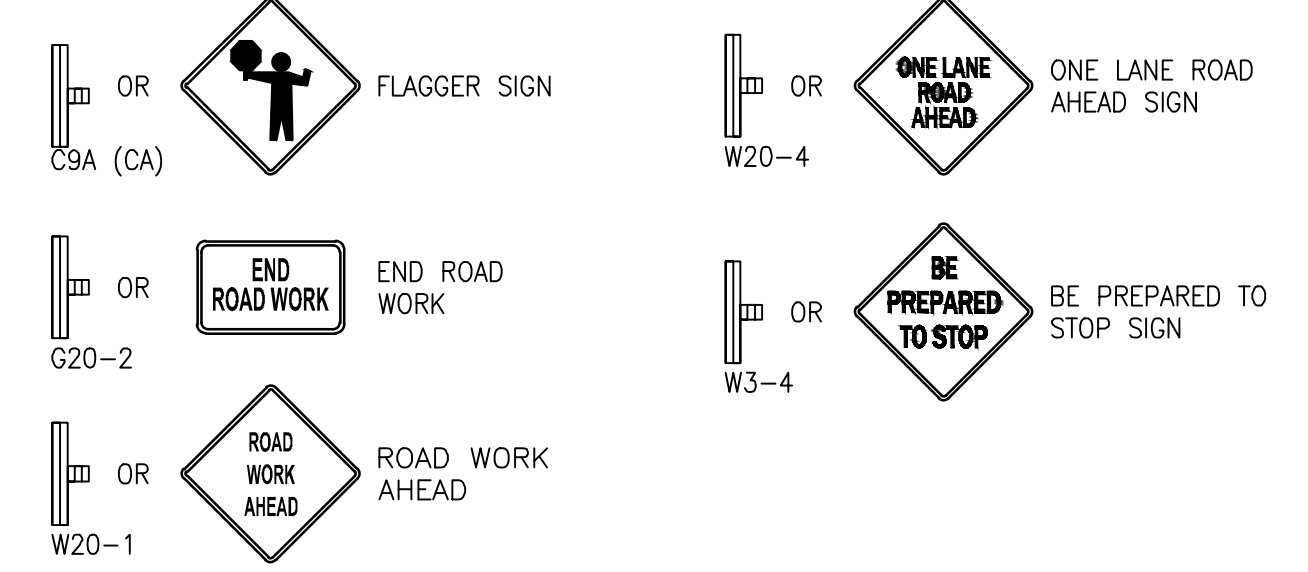
SHEET No.	TOTAL SHEETS
5	19

PROFESSIONAL ENGINEER  
 DAVID RICHARD  
 No. 33479  
 EXP. 6/30/26  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

**SIGNAGE KEY**



**GENERAL NOTES**

1. ALL CONSTRUCTION AREA SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 2014 CALIFORNIA MUTCD AND THE 2018 CALSTRAN STANDARD PLANS.
2. ALL WARNING SIGNS ARE 48" x 48" DIMENSION AND SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.
3. SIGNS MAY NOT BE SUBSTITUTED WITHOUT APPROVAL OF THE CITY ENGINEER.
4. SIGNS AND DEVICES MUST BE VISIBLE AT 1000'.
5. PORTABLE MESSAGE SIGNS - IN ADDITION TO THE REQUIREMENTS IN THE SPECIAL PROVISIONS, WHENEVER WORK IS PERFORMED THAT REQUIRES ANY LANE CLOSURE, PORTABLE SIGNS SHALL BE PROVIDED. FOR PORTABLE CHANGEABLE MESSAGE SIGN, USE ABBREVIATIONS LISTED IN CALIFORNIA MUTCD, PAGE 96-98, CONTRACTOR SHALL COORDINATE WITH CITY ON MESSAGE AND DURATION OF PCMS.
6. BARRICADES MUST BE REMOVED AT THE END OF EACH DAY.
7. PROPOSED DURATION OF WORK (60 DAYS), WORK HOURS SHALL BE LIMITED FROM 8:30 AM TO 3:30 PM AND MAY BE MODIFIED BY THE CITY INSPECTOR. CONTRACTOR SHALL NOT RESTRICT TRAFFIC ON STANISLAUS AVENUE, PACIFIC AVENUE, AND MARK TWAIN ROAD DURING SCHEDULED DROP-OFF (XX-XX) AND PICK-UP PERIODS (XX-XX) WHEN SCHOOL IS IN SESSION.

**TRAFFIC CONTROL LEGEND:**

LANE CLOSURE ALLOWED DURING WORK HOURS. CONTRACTOR TO MAINTAIN ONE LANE OF 2-WAY TRAFFIC DURING WORK HOURS WITH FLAGGERS. OPEN TRENCH TO BE PLATED AT NIGHT OR BACKFILLED TO ALLOW FOR RESTORATION OF 2-WAY TRAFFIC DURING NON-WORKING HOURS.

**FINAL BID SET**

TRAFFIC CONTROL PLAN

USERNAME => caguair  
 DWG FILE => MWTI-R-GO.50.dwg

RELATIVE BORDER SCALE IS IN INCHES



UNIT 0000

PROJECT NUMBER & PHASE

50182984

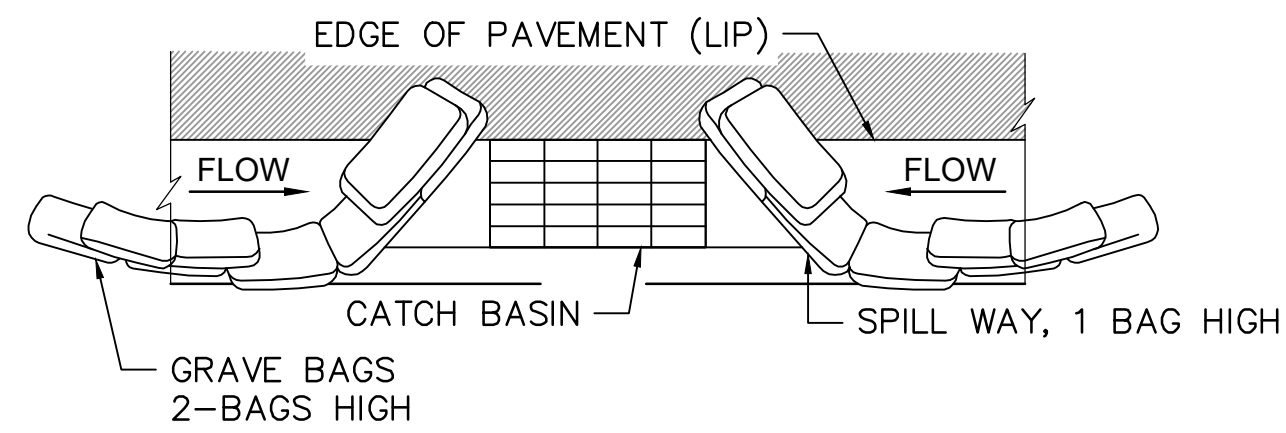
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DATE PLOTTED => Feb 04, 2025



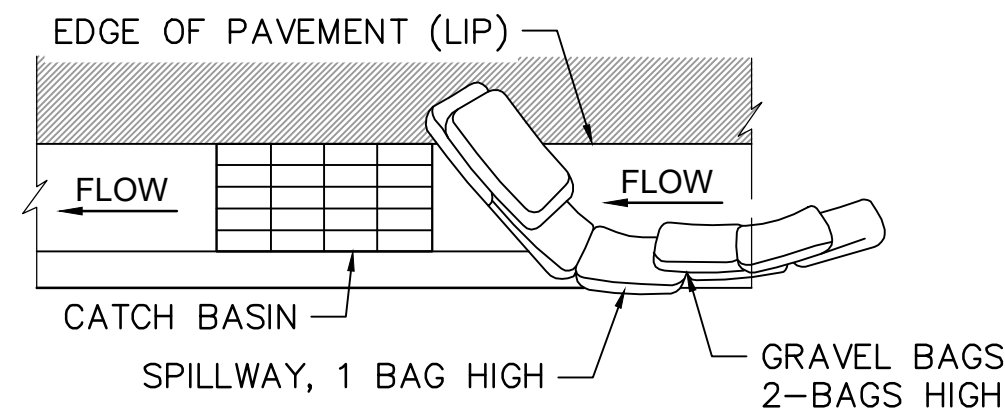
CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337



**TYPICAL PROTECTION FOR INLET ON SUMP**

SCALE: N.T.S



**TYPICAL PROTECTION FOR INLET ON GRADE**

SCALE: N.T.S

**NOTE:**

1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEAN UP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

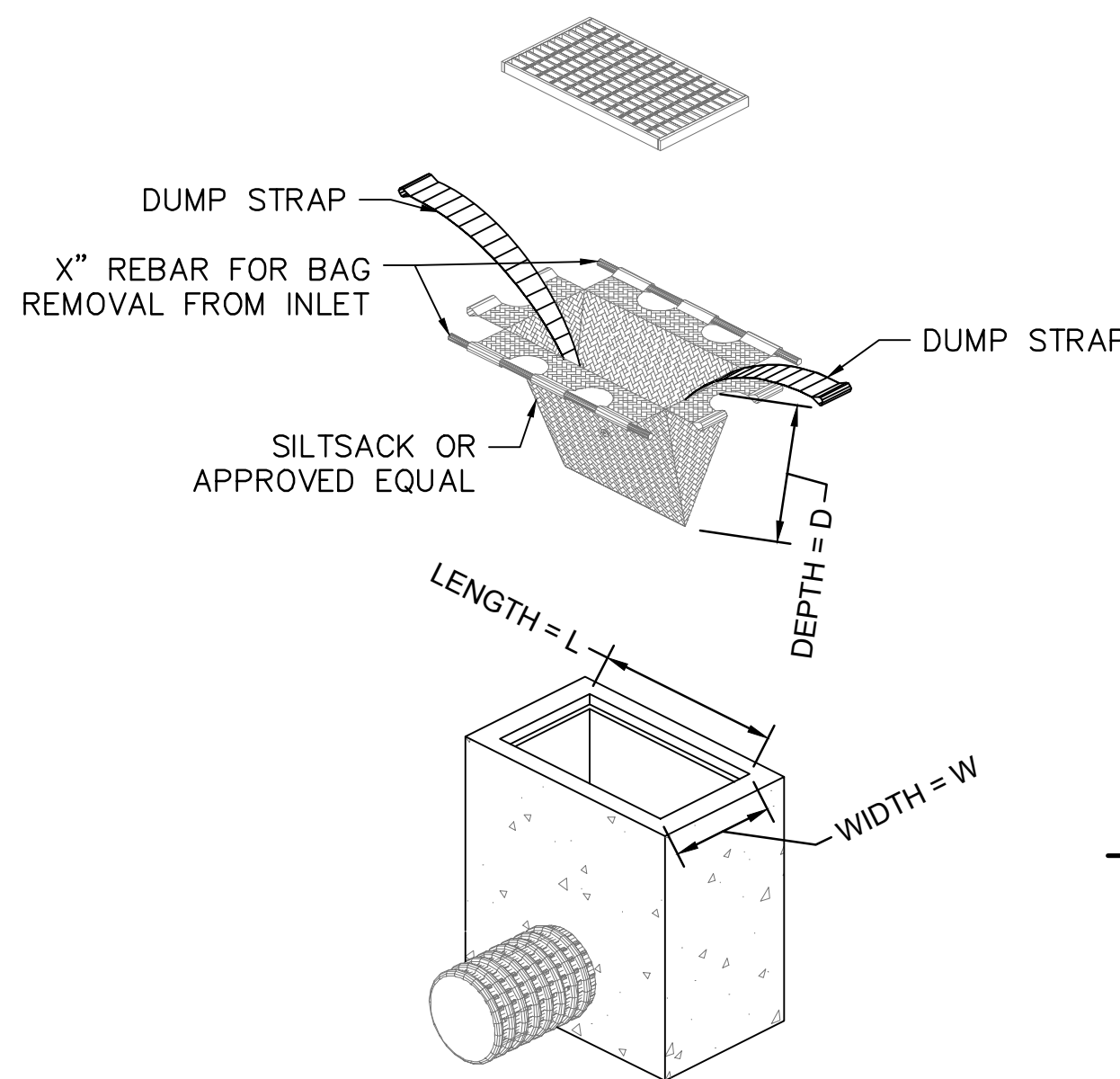
**DI PROTECTION TYPE 3 - GRAVEL BAG:**

THE GRAVEL BAG BARRIER (TYPE 3) IS SHOWN IN THE FIGURES. FLOW FROM A SEVERE STORM SHOULD NOT OVERTOP THE CURB. IN AREAS OF HIGH CLAY AND SILTS, USE FILTER FABRIC AND GRAVEL AS ADDITIONAL FILTER MEDIA. GRAVEL BAGS SHOULD BE USED DUE TO THEIR HIGH PERMEABILITY.

1. USE SAND BAG MADE OF GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 0.75 IN. ROCK OR 0.25 IN. PEA GRAVEL.
2. CONSTRUCT ON GENTLY SLOPING STREET.
3. LEAVE ROOM UPSTREAM OF BARRIER FOR WATER TO POND AND SEDIMENT TO SETTLE.
4. PLACE SEVERAL LAYERS OF SAND BAGS - OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
5. LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY. FLOW FROM A SEVERE STORM (E.G., 10 YEAR STORM) SHOULD NOT OVERTOP THE CURB.
6. THIS DETAIL IS TO BE USED ON EXISTING STREETS WHERE SILTED FLOW IS TO BE INTERCEPTED (CAUGHT) PRIOR TO ENTERING THE STORM DRAIN SYSTEM. SANDBAGS CAN ALSO BE USED WHEN THE ROUGH GRADED STREETS HAVE POURED IN-PLACE CONCRETE SURROUNDING THE INLET TO CREATE A "FLOW LINE" WHERE A DAM CAN BE ACHIEVED TO PROTECT THE STORM SYSTEM FROM THE INFLOW OF SEDIMENT.

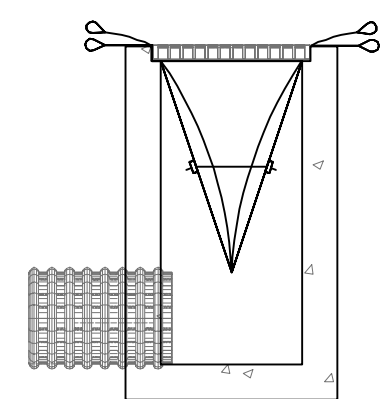
**DI PROTECTION - TYPE 3**

SCALE: N.T.S

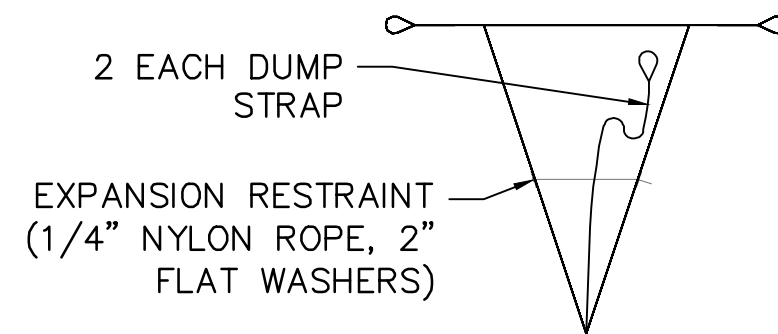


**TYPICAL SILTSACK CONSTRUCTION**

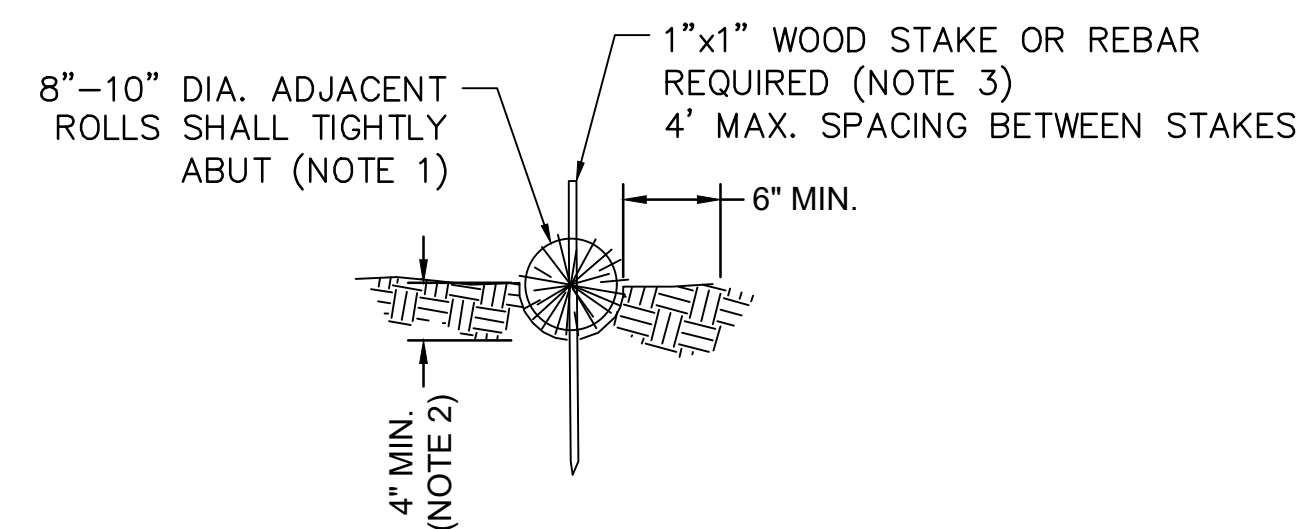
SCALE: N.T.S



**INSTALLATION DETAIL**



**BAG DETAIL**

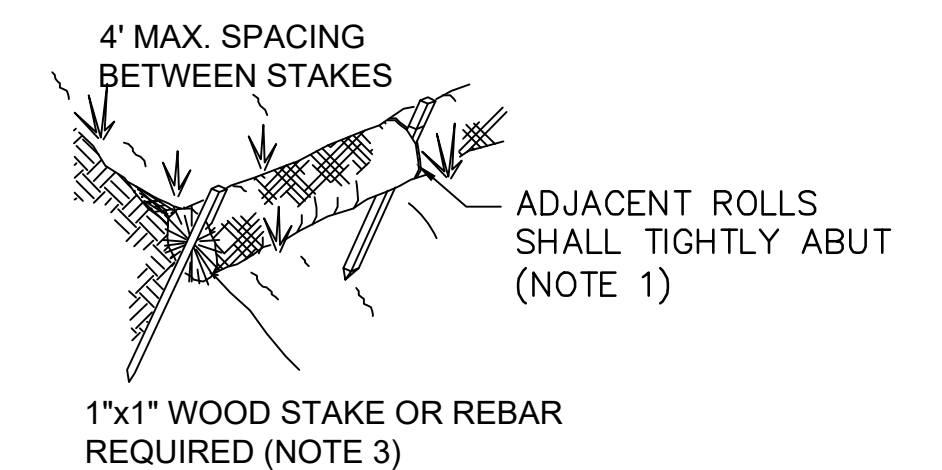


**NOTE:**

1. WATTLES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING ALONG EXISTING FENCE.
2. EACH WATTLE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES. AFTER CONSTRUCTION, CONTRACTOR TO REMOVE WATTLES AND FILL CAVITY.
3. WATTLES SHALL BE SECURELY ANCHORED IN-PLACE BY TWO STAKES OR REBARS DRIVEN THROUGH THE WATTLES. THE FIRST STAKE IN EACH WATTLE SHALL BE DRIVE TOWARD THE PREVIOUSLY LAND WATTLE TO FORCE THE WATTLES TOGETHER.
4. THE DIKE SHALL BE INSPECTED AFTER EACH STORM, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. THE WATTLES SHALL BE REMOVED ONCE THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

**STRAW WATTLE DETAIL**

SCALE: N.T.S

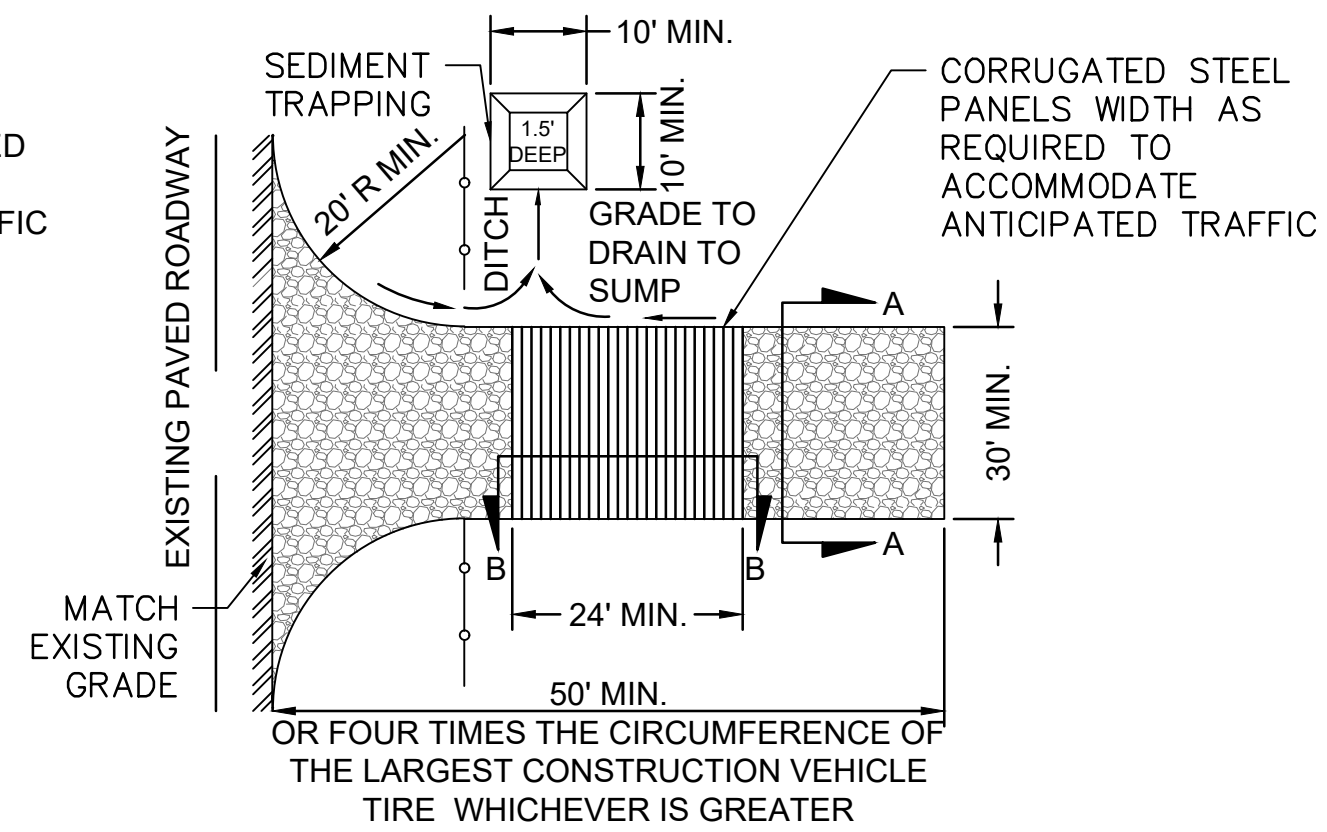
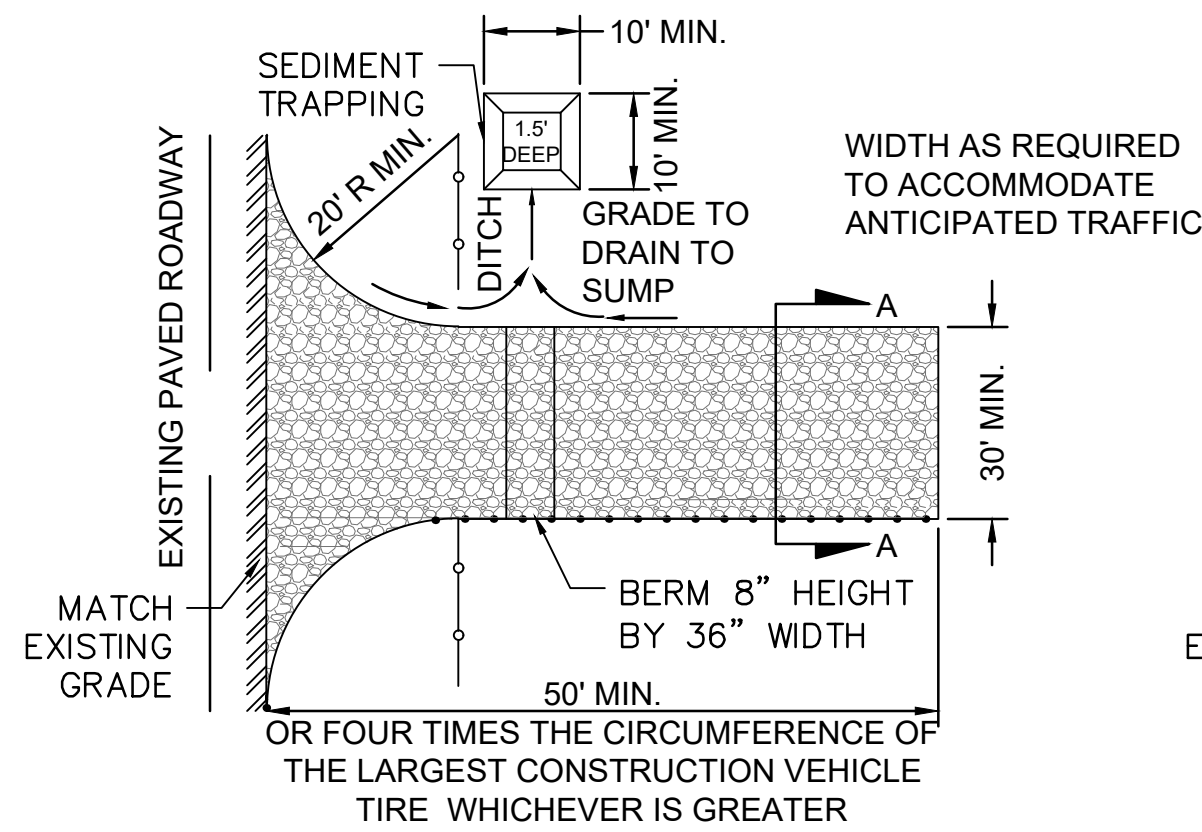


CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT  
CONSULTANT PROJECT MANAGER  
D. RICHARD  
C. AGUIAR  
K. TRAN  
REVISOR  
C. AGUIAR  
DATE  
02/04/25  
REVISION  
02-04-25



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337



**NOTE:**

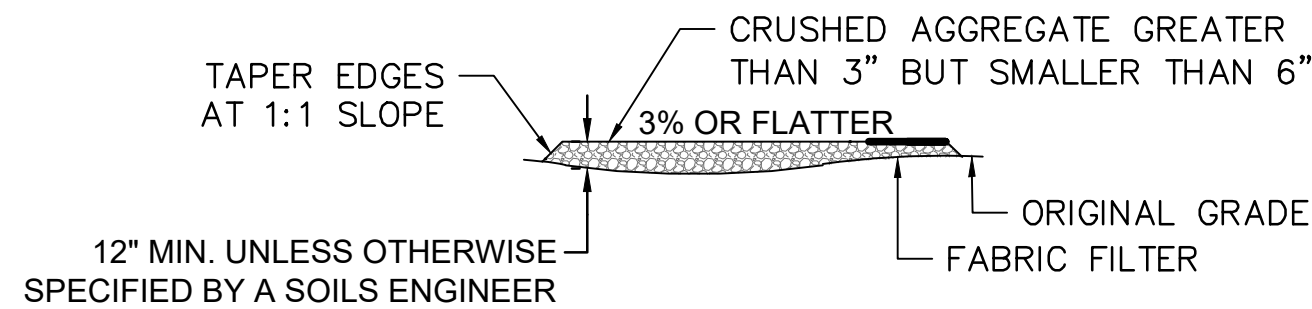
1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

**PLAN OPTION 1**

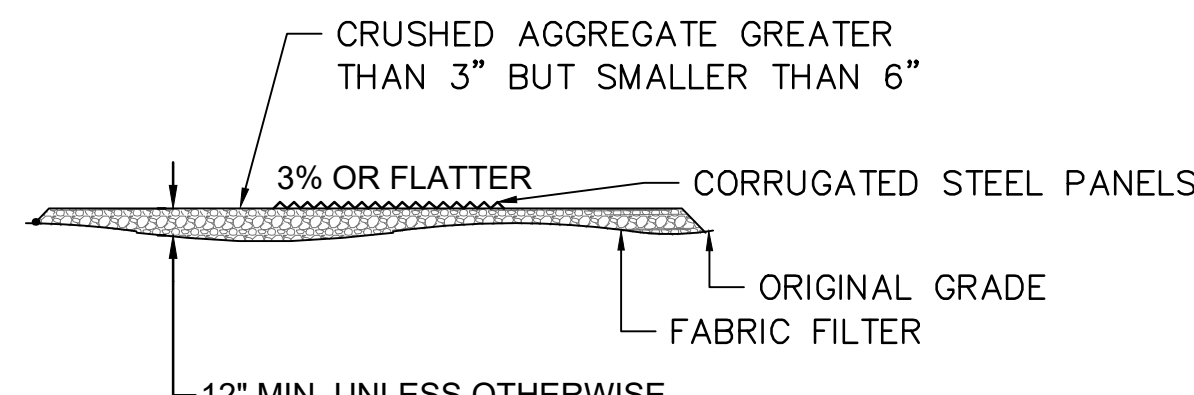
**NOTE:**

1. CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE

**PLAN OPTION 2**



**SECTION A-A**



**SECTION B-B**

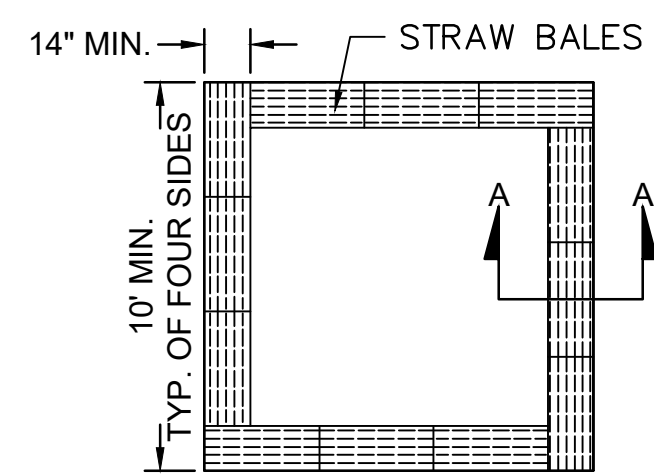
**TEMPORARY STABILIZED CONSTRUCTIONS ENTRANCE:**

DESIGN AND CONSTRUCTION SPECIFICATIONS:

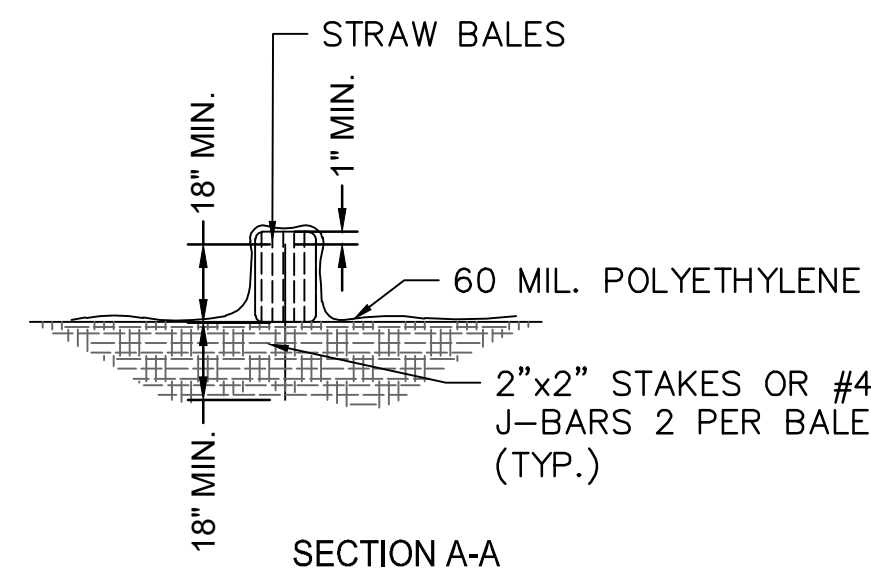
1. THE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS OF THE LATEST EDITION OF THE CALIFORNIA STORMWATER HANDBOOK, DETAIL TC-1. WHERE THERE IS A DISCREPANCY BETWEEN THIS DETAIL AND THE CALIFORNIA STORMWATER HANDBOOK, THE HANDBOOK SHALL GOVERN.
2. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT EACH ENTRANCE TO THE PROJECT SITE AND SHALL BE CONSTRUCTED ON LEVEL GROUND.
3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3 TO 6 INCH DIA. STONE.
4. THE THICKNESS FOR THE PAD SHALL NOT BE LESS THAN 12 INCHES OR AS RECOMMENDED BY SOILS ENGINEER.
5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN 30' OR THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, WHICHEVER IS GREATER.
6. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, SEDIMENT BASIN, OR SEDIMENT SWALE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF GRAVEL BAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
9. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.
10. CONSTRUCTION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE 2003 CALIFORNIA STORMWATER BMP HANDBOOK.

**TEMPORARY STABILIZED CONSTRUCTION ENTRANCE**

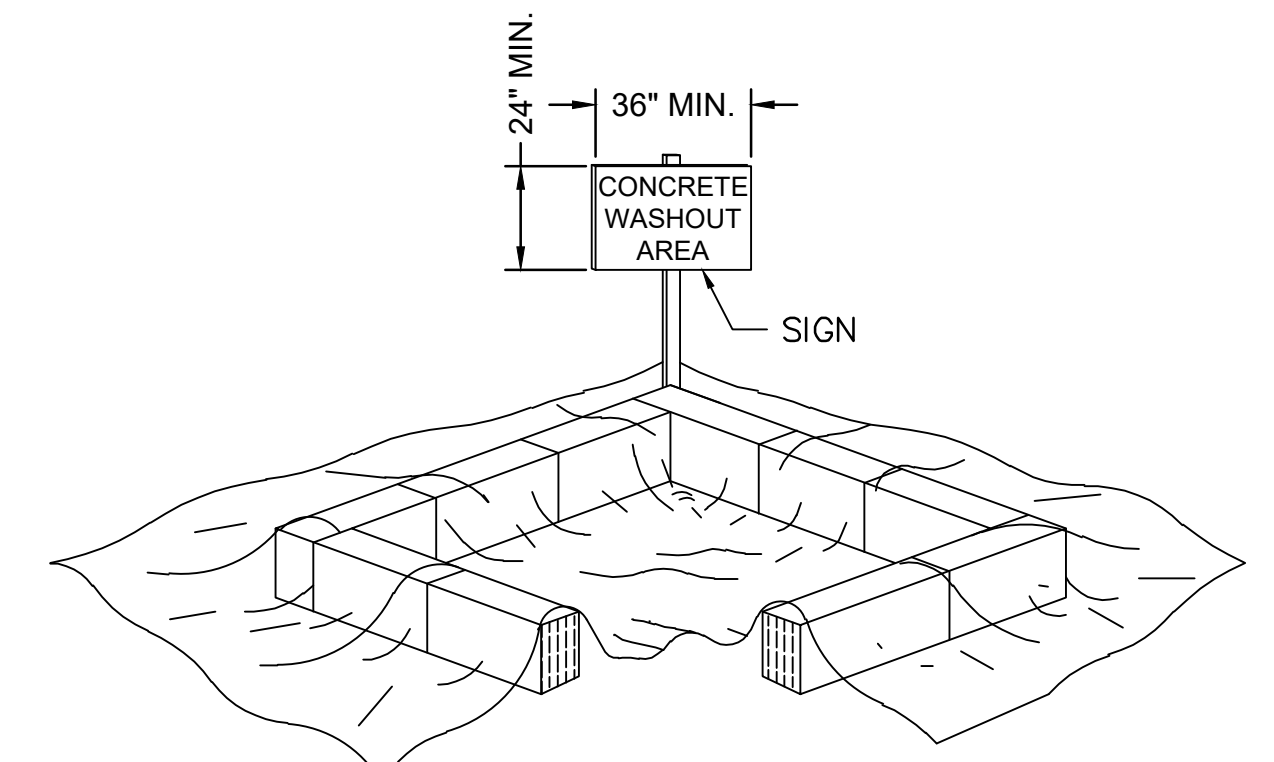
SCALE: N.T.S



**BALE CONFIGURATION**



**SECTION A-A**



THIS SECTION REMOVED FOR GRAPHICAL REPRESENTATION ONLY. STRAW BALE PERIMETER SHALL BE CONTINUOUS.

**NOTE:**

1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50 FEET MINIMUM FROM DRAINAGE INLETS OR WATERCOURSES.
3. CONTRACTOR SHALL CONDUCT ALL CONCRETE WASHOUT ONSITE AS DIRECTED BY CITY.

**CONCRETE WASHOUT DETAIL**

SCALE: N.T.S

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT  
CONSULTANT PROJECT MANAGER  
D. RICHARD  
REVISOR  
C. AGUIAR  
DATE  
02/04/25  
CHECKED BY  
K. TRAN  
DESIGNED BY  
C. AGUIAR

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
 MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT

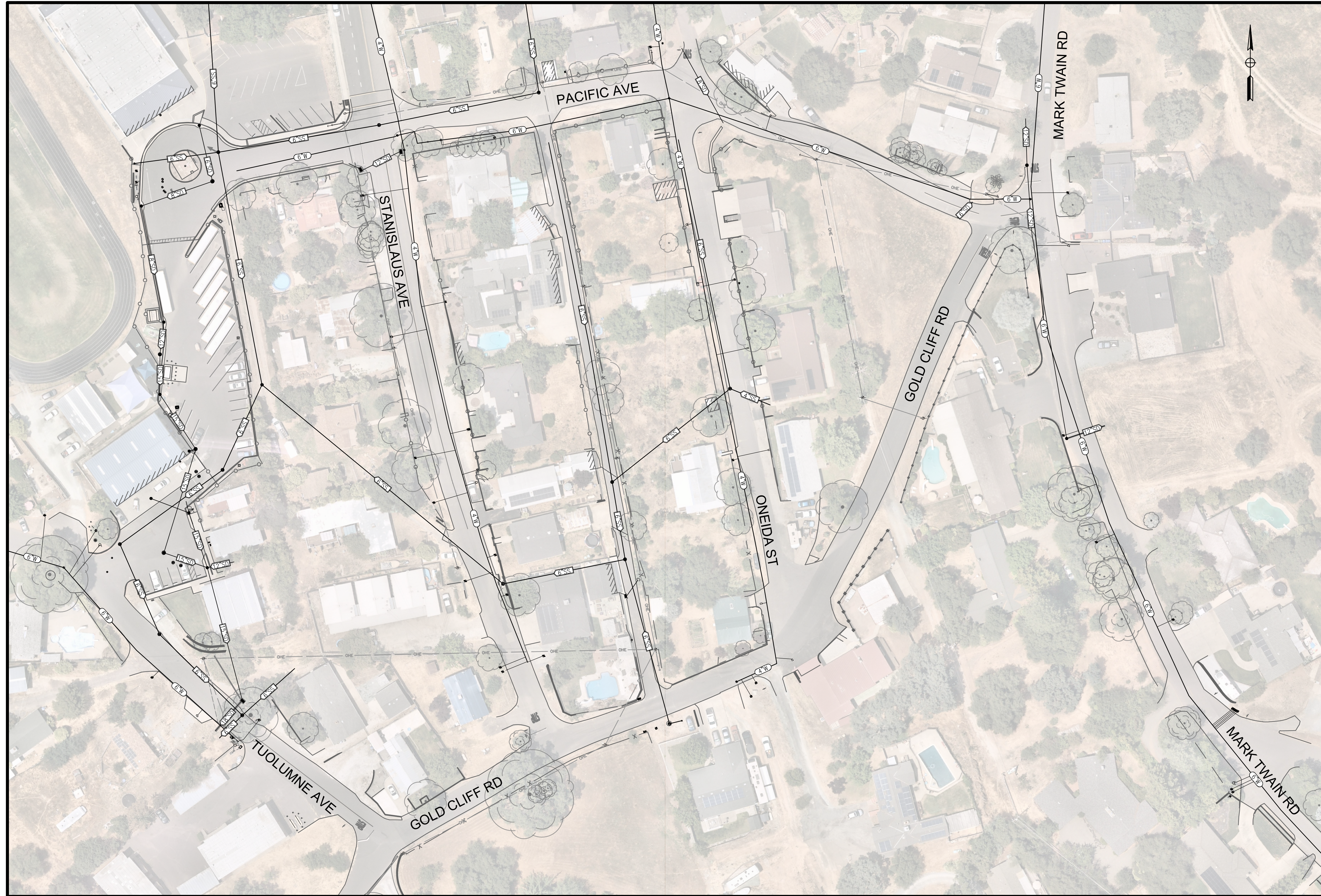
CONSULTANT PROJECT MANAGER  
 D. RICHARD

CALCULATED - DESIGNED BY  
 CHECKED BY

C. AGUIAR  
 K. TRAN

REVISED BY  
 DATE REVISED

C. AGUIAR  
 02/04/25



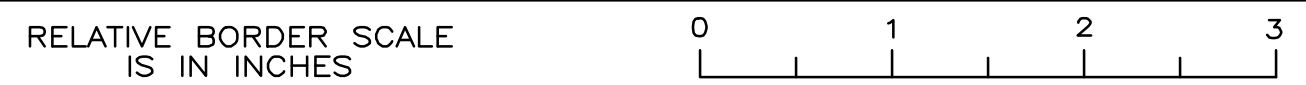
**EXISTING OVERALL PIPING PLAN**  
 SCALE: 1" = 50'

	SHEET No.	TOTAL SHEETS
	8	19

CITY OF ANGELS DEPARTMENT OF PUBLIC WORKS 2990 CENTENNIAL ROAD ANGELS CAMP, CA 95222	DEWBERRY 903 W CENTER STREET MANTECA, CA 95337
---	--

- LEGEND**
- C-W- EXISTING 4" POTABLE WATER MAIN
  - E-W- EXISTING 6" POTABLE WATER MAIN
  - L-SS- EXISTING 4" SANITARY SEWER
  - F-SS- EXISTING 6" SANITARY SEWER
  - R-SD- EXISTING 6" STORM DRAIN
  - R-SD- EXISTING 8" STORM DRAIN
  - T-SD- EXISTING 12" STORM DRAIN
  - T-SD- EXISTING 15" STORM DRAIN
  - T-SD- EXISTING 18" STORM DRAIN

USERNAME =>caguair  
 DWG FILE => MWTI-R-CO.01-C1.00.dwg



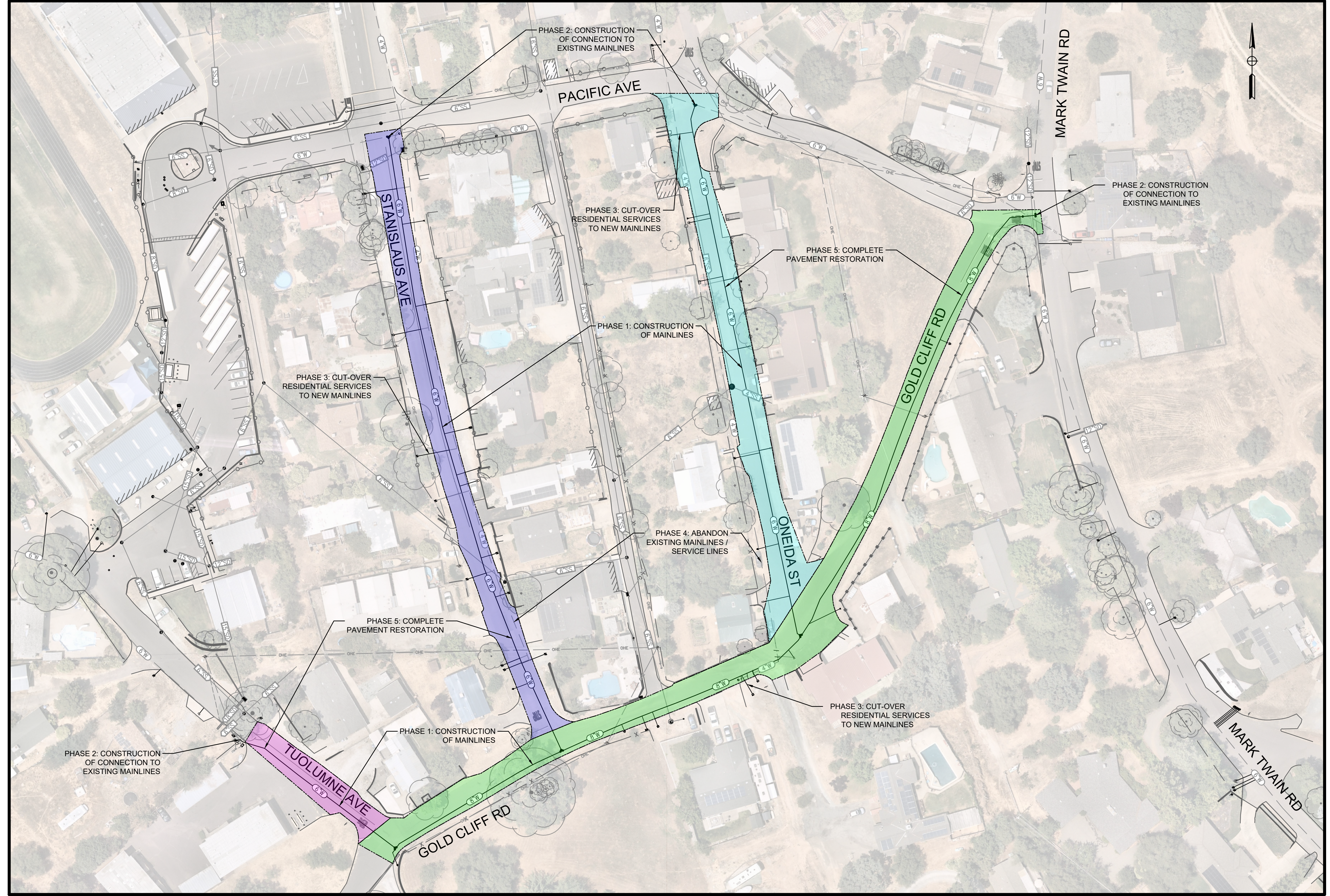
<b>FINAL BID SET</b>		EXISTING OVERALL PIPING PLAN	
UNIT 0000	PROJECT NUMBER & PHASE	50182984	

CO.01

DATE PLOTTED => Feb 04, 2025



CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT	CONSULTANT PROJECT MANAGER	D. RICHARD	CALCULATED BY	C. AGUIAR	REVISOR	C. AGUIAR
		CHECKED BY	K. TRAN	DATE	02/04/25		



**Dewberry**

SHEET No. 9 TOTAL SHEETS 19

PROFESSIONAL ENGINEER  
 DAVID RICHARD  
 No. 33479  
 EXP. 6/30/26  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

- LEGEND**
- GOLD CLIFF ROAD
  - ONEIDA STREET
  - STANISLAUS AVENUE
  - TUOLUMNE AVENUE
- 4"W EXISTING 4" POTABLE WATER MAIN
  - 6"W EXISTING 6" POTABLE WATER MAIN
  - 4"SS EXISTING 4" SANITARY SEWER
  - 6"SS EXISTING 6" SANITARY SEWER
  - 8"SD EXISTING 8" STORM DRAIN
  - 8"SD EXISTING 8" STORM DRAIN
  - 12"SD EXISTING 12" STORM DRAIN
  - 15"SD EXISTING 15" STORM DRAIN
  - 18"SD EXISTING 18" STORM DRAIN
  - 6"W PROPOSED 6" POTABLE WATER MAIN
  - 8"W PROPOSED 8" POTABLE WATER MAIN

- CONSTRUCTION SEQUENCES:**
- FIRST PHASE: CONSTRUCT MAINLINES, FLUSH, TEST, DISINFECT
  - SECOND PHASE: CONSTRUCT CONNECTION TO EXISTING MAINLINES DURING AN APPROVED SHUTDOWN PERIOD
  - THIRD PHASE: CUT-OVER RESIDENTIAL SERVICES TO NEW MAINLINES
  - FOURTH PHASE: ABANDON EXISTING MAINLINES / SERVICE LINES
  - FIFTH PHASE: COMPLETE PAVEMENT RESTORATION

USERNAME => caguiar  
 DWG FILE => MWTI-R-CO.01-C1.00.dwg

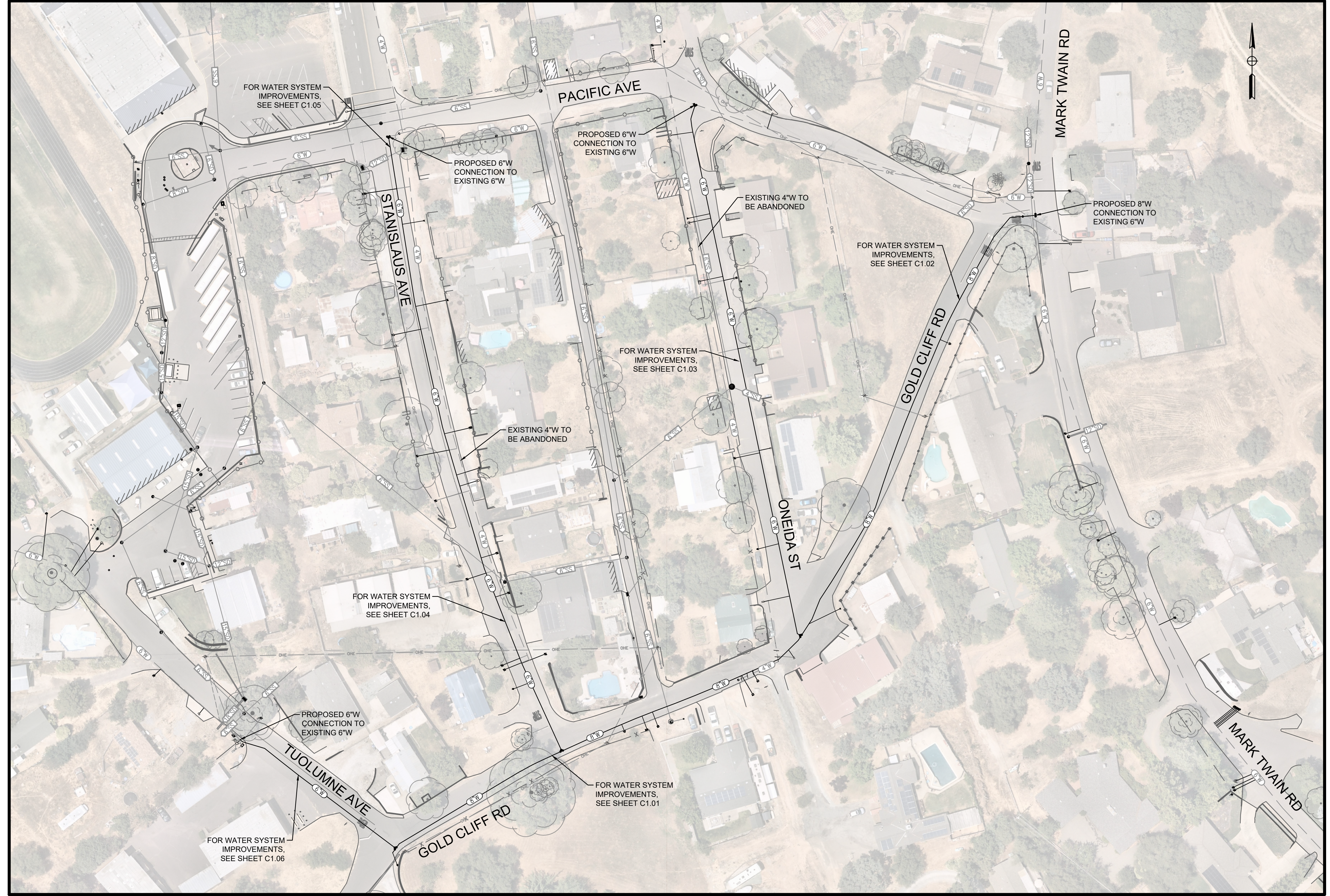


<b>FINAL BID SET</b>	CONSTRUCTION SEQUENCING PLAN
UNIT 0000	PROJECT NUMBER & PHASE 50182984

DATE PLOTTED => Feb 04, 2025  
 TIME PLOTTED => 3:52 pm

CO.02

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	CALCULATED BY	REVISOR	DATE
	D. RICHARD	CHECKED BY	C. AGUIAR	02/04/25
MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT			C. AGUIAR	
			K. TRAN	



**OVERALL PLAN VIEW OF PROPOSED IMPROVEMENTS**

SCALE: 1" = 50'

**Dewberry**

SHEET No.	TOTAL SHEETS
10	19

PROFESSIONAL ENGINEER  
 DAVID RICHARD  
 No. 33479  
 EXP. 6/30/26  
 CIVIL  
 STATE OF CALIFORNIA

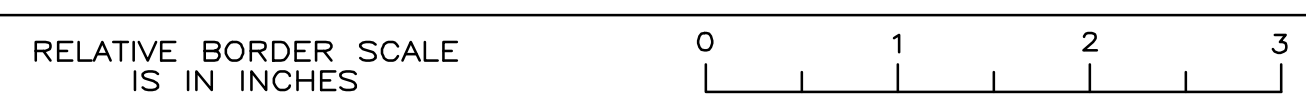
CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

- LEGEND**
- 4"W- EXISTING 4" POTABLE WATER MAIN
  - 6"W- EXISTING 6" POTABLE WATER MAIN
  - 4"SS- EXISTING 4" SANITARY SEWER
  - 6"SS- EXISTING 6" SANITARY SEWER
  - 8"SD- EXISTING 8" STORM DRAIN
  - 8"SD- EXISTING 8" STORM DRAIN
  - 12"SD- EXISTING 12" STORM DRAIN
  - 15"SD- EXISTING 15" STORM DRAIN
  - 18"SD- EXISTING 18" STORM DRAIN
  - 6"W- PROPOSED 6" POTABLE WATER MAIN
  - 8"W- PROPOSED 8" POTABLE WATER MAIN

- WATER KEY NOTES**
- EXISTING WATERLINES TO BE ABANDONED SHALL BE CUT AND PLUGGED WITH CONCRETE A DISTANCE OF 2-FT FROM CUT

USERNAME => caguiar  
 DWG FILE => MW1-R-CO.01-C1.00.dwg

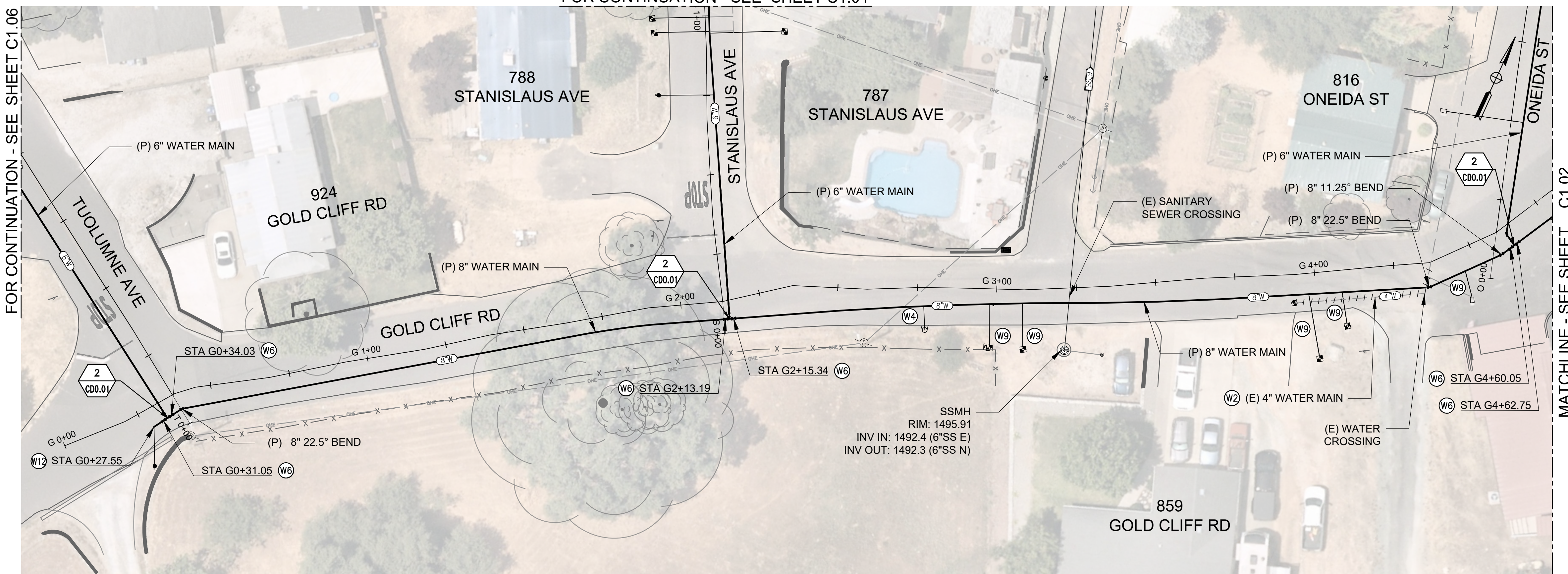


<b>FINAL BID SET</b>	PROPOSED WATERLINE IMPROVEMENTS OVERALL PLAN VIEW	C1.00
UNIT 0000	PROJECT NUMBER & PHASE	50182984

DATE PLOTTED => Feb 04, 2025  
 TIME PLOTTED => 3:52 pm

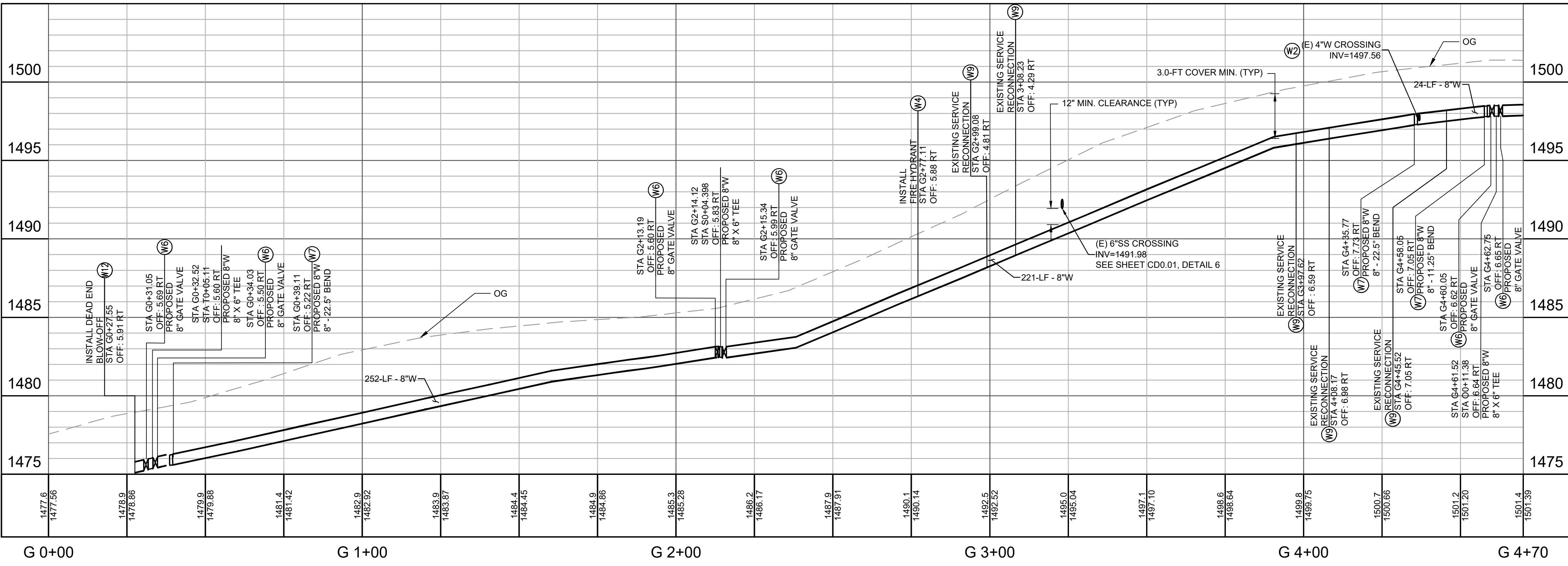
CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
 MARK TWIN WATER SYSTEM IMPROVEMENTS PROJECT  
 CONSULTANT PROJECT MANAGER  
 D. RICHARD  
 C. AGUIAR  
 K. TRAN  
 C. AGUIAR  
 02/04/25  
 C. AGUIAR  
 02/04/25

FOR CONTINUATION - SEE SHEET C1.04



**PLAN**

SCALE: 1" = 20'



**PROFILE**

HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 4'

**WATER KEY NOTES**

- (W2) REMOVE EXISTING 4" WATER LINE, TO FACILITATE INSTALLATION OF (P) 8"W.
- (W4) INSTALL FIRE HYDRANT ASSEMBLY PER CITY STANDARD DRAWING WS-6, SEE SHEET CDO.03, DETAIL 12.
- (W6) INSTALL 8" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE SHEET CDO.03, DETAIL 9.
- (W7) INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.
- (W9) RE-CONNECT (E) SERVICE CONNECTION TO PROPOSED WATER LINE, SEE SHEET CDO.02, DETAIL 7.
- (W12) INSTALL DEAD END BLOW-OFF PER CITY STANDARD DRAWING WS-4, SEE SHEET CDO.03, DETAIL 11.

**LEGEND**

- (4"W) EXISTING 4" POTABLE WATER MAIN
- (6"W) EXISTING 6" POTABLE WATER MAIN
- (4"SS) EXISTING 4" SANITARY SEWER
- (6"SS) EXISTING 6" SANITARY SEWER
- (8"SD) EXISTING 8" STORM DRAIN
- (12"SD) EXISTING 12" STORM DRAIN
- (15"SD) EXISTING 15" STORM DRAIN
- (18"SD) EXISTING 18" STORM DRAIN
- (6"W) PROPOSED 6" POTABLE WATER MAIN
- (8"W) PROPOSED 8" POTABLE WATER MAIN

**Dewberry**

SHEET No. 11 TOTAL SHEETS 19

PROFESSIONAL ENGINEER  
 DAVID RICHARD  
 No. 33479  
 EXP. 6/30/26  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

USERNAME => caguilar  
 DWG FILE => MW1-R-C1.01-C1.06.dwg



**FINAL BID SET**

PROPOSED WATERLINE IMPROVEMENTS  
 GOLD CLIFF RD PLAN AND PROFILE - 1

UNIT 0000 PROJECT NUMBER & PHASE 50182984

C1.01

DATE PLOTTED => Feb 04, 2025  
 TIME PLOTTED => 5:09 pm

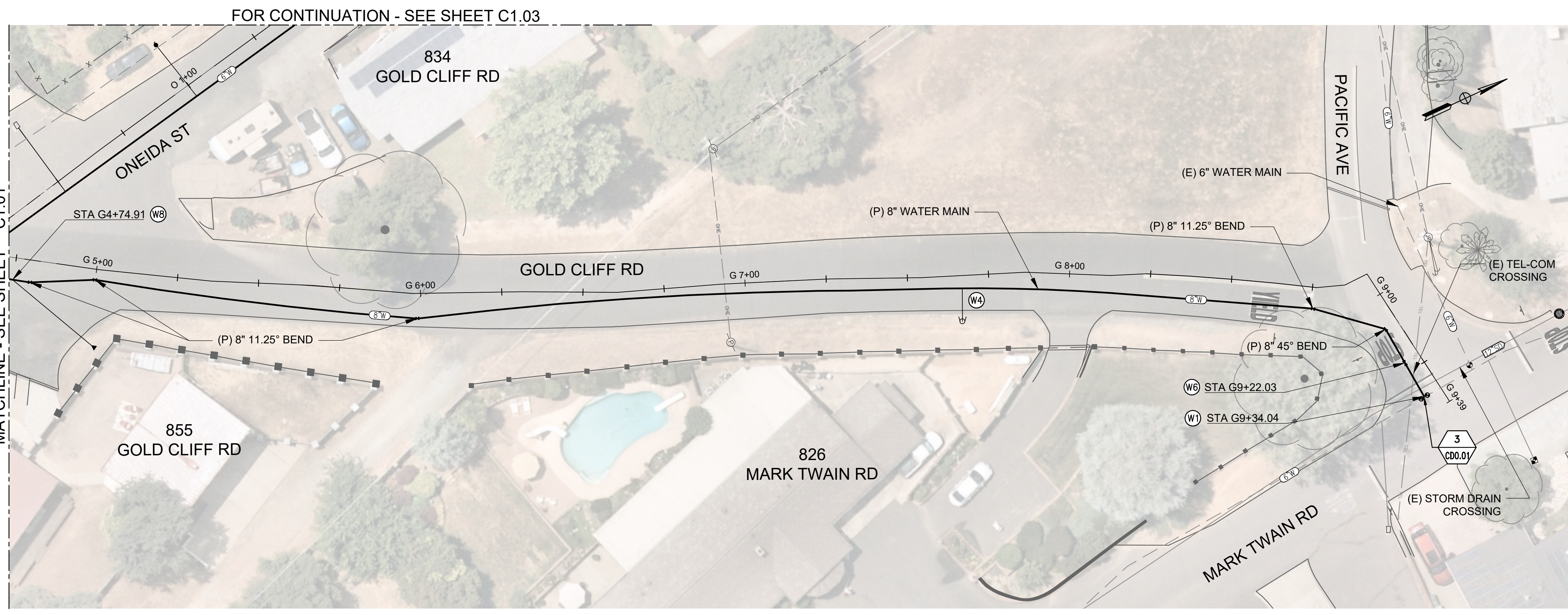


CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

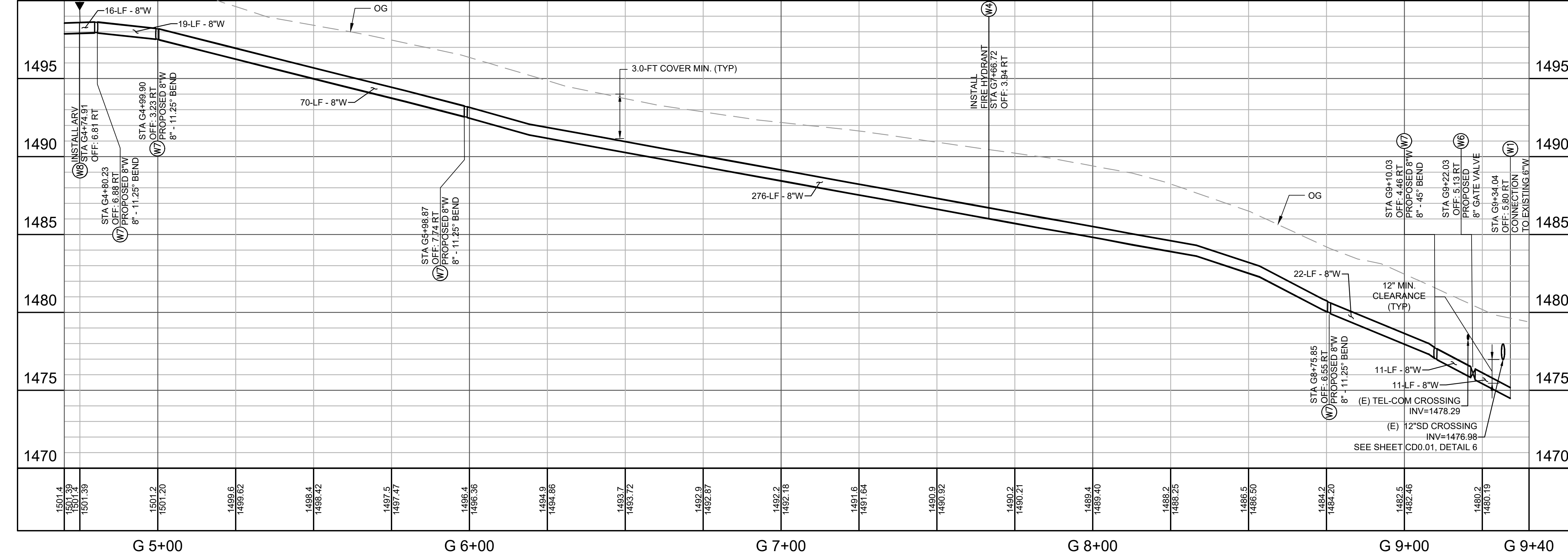
- WATER KEY NOTES**
- (W1) CONNECT TO (E) WATER MAIN PER PLAN.
  - (W4) INSTALL FIRE HYDRANT ASSEMBLY PER CITY STANDARD DRAWING WS-6, SEE SHEET CDO.03, DETAIL 12.
  - (W6) INSTALL 8" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE SHEET CDO.03, DETAIL 9.
  - (W7) INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.
  - (W8) INSTALL AIR RELEASE VALVE PER CITY STANDARD DRAWING WS-9. VENT PIPING SHALL HAVE POSITIVE OR FLAT SLOPE FROM ARV TO THE PIPE, SEE SHEET CDO.03, DETAIL 13.

- LEGEND**
- (4"W) - EXISTING 4" POTABLE WATER MAIN
  - (6"W) - EXISTING 6" POTABLE WATER MAIN
  - (4"SS) - EXISTING 4" SANITARY SEWER
  - (6"SS) - EXISTING 6" SANITARY SEWER
  - (8"SD) - EXISTING 8" STORM DRAIN
  - (8"SD) - EXISTING 8" STORM DRAIN
  - (12"SD) - EXISTING 12" STORM DRAIN
  - (15"SD) - EXISTING 15" STORM DRAIN
  - (18"SD) - EXISTING 18" STORM DRAIN
  - (6"W) - PROPOSED 6" POTABLE WATER MAIN
  - (8"W) - PROPOSED 8" POTABLE WATER MAIN



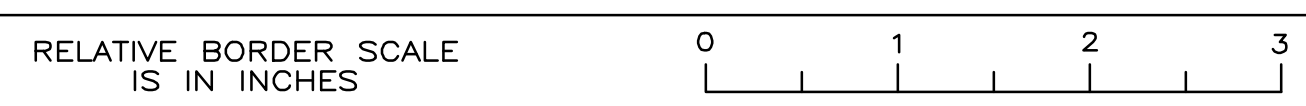
**PLAN**

SCALE: 1" = 20'



**PROFILE**

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'



**FINAL BID SET**

PROPOSED WATERLINE IMPROVEMENTS  
GOLD CLIFF RD PLAN AND PROFILE - 2

USERNAME => caguajar  
DWG FILE => MWTL-R-C1.01-C1.06.dwg

UNIT 0000 PROJECT NUMBER & PHASE 50182984

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	D. RICHARD
	MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT	
CALCULATED - DESIGNED BY	C. AGUIJAR	K. TRAN
	CHECKED BY	
REVISOR	DATE	REVISION
C. AGUIJAR	02/04/25	C1.01

DATE PLOTTED => Feb 04, 2025  
TIME PLOTTED => 5:09 pm

FOR CONTINUATION - SEE SHEET C1.01

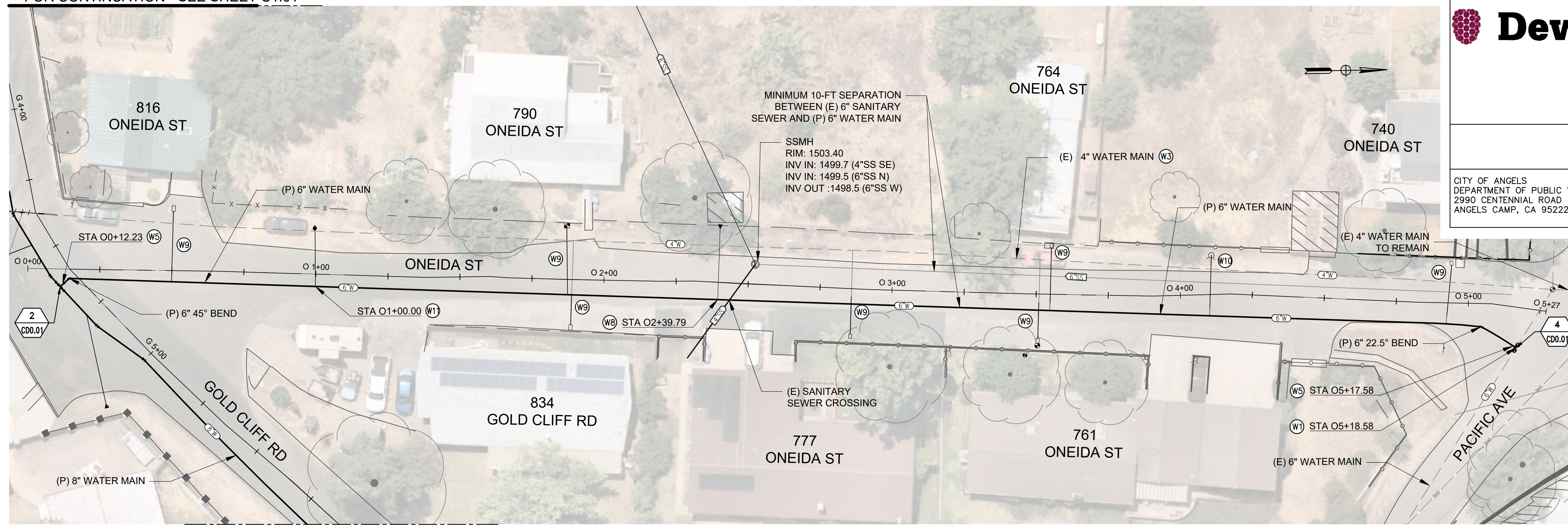


SHEET No.	TOTAL SHEETS
13	19



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337



FOR CONTINUATION - SEE SHEET C1.02

**PLAN**

SCALE: 1" = 20'

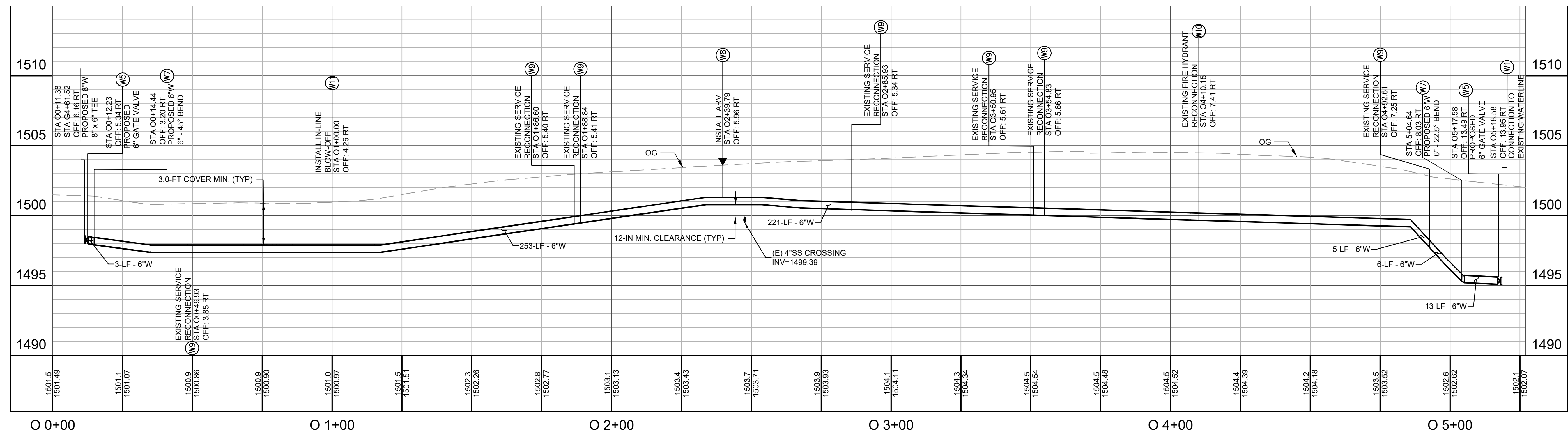
**LEGEND**

- 6"W - EXISTING 6" POTABLE WATER MAIN
- 6"SS - EXISTING 6" SANITARY SEWER
- 6"W - PROPOSED 6" POTABLE WATER MAIN
- 8"W - PROPOSED 8" POTABLE WATER MAIN

**WATER KEY NOTES**

- (W1) CONNECT TO (E) WATER MAIN PER PLAN.
- (W3) EXISTING WATER LINE TO BE ABANDONED UPON COMPLETION OF PROPOSED WATER LINE.
- (W5) INSTALL 6" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE SHEET CDO.03, DETAIL 9.
- (W7) INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.
- (W8) INSTALL AIR RELEASE VALVE PER CITY STANDARD DRAWING WS-9. VENT PIPING SHALL HAVE POSITIVE OR FLAT SLOPE FROM ARV TO THE PIPE, SEE SHEET CDO.03, DETAIL 13.
- (W9) RE-CONNECT (E) SERVICE CONNECTION TO PROPOSED WATER LINE, SEE SHEET CDO.02, DETAIL 7.
- (W10) THE CONTRACTOR SHALL PROVIDE TO THE CITY 7 DAYS NOTICE PRIOR TO DISCONNECTING A FIRE HYDRANT LATERAL FOR SUBSEQUENT RE-CONNECTION TO A PROPOSED WATER MAIN. DIS-CONNECTION AND RE-CONNECTION OF FIRE HYDRANTS SHALL BE COORDINATED WITH THE CITY FIRE DEPARTMENT. CONTRACTOR SHALL STRICTLY FOLLOW INSTRUCTIONS FROM FIRE DEPARTMENT FOR SCHEDULING WORK. SEE SHEET CDO.02, DETAIL 8.
- (W11) INSTALL IN-LINE BLOW-OFF PER CITY STANDARD DRAWING WS-3, SEE SHEET CDO.03, DETAIL 10.

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
MARK TWIN WATER SYSTEM IMPROVEMENTS PROJECT  
CONSULTANT PROJECT MANAGER  
D. RICHARD



**PROFILE**

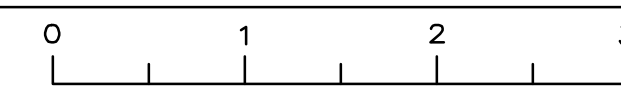
HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

**FINAL BID SET**

PROPOSED WATERLINE IMPROVEMENTS  
ONEIDA ST PLAN AND PROFILE

USERNAME => caguilar  
DWG FILE => MW11-R-C1.01-C1.06.dwg

RELATIVE BORDER SCALE  
IS IN INCHES



UNIT 0000

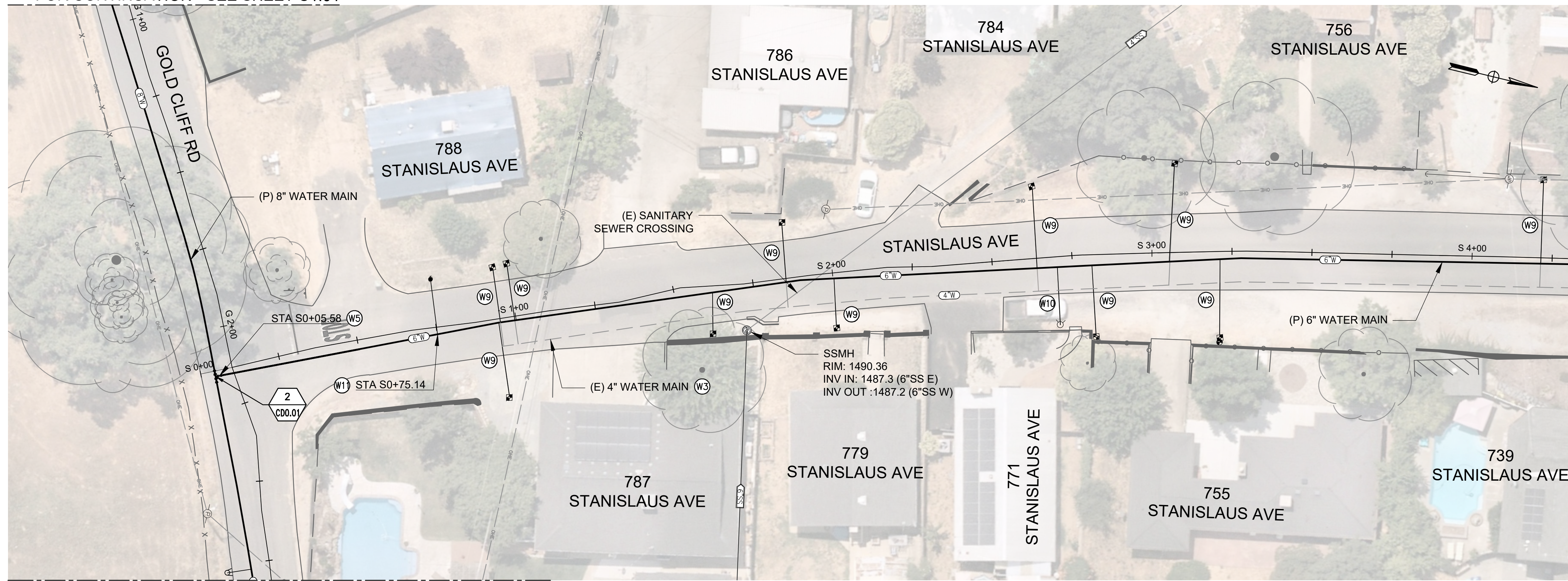
PROJECT NUMBER & PHASE

50182984

C1.03

DATE PLOTTED => Feb 04, 2025  
TIME PLOTTED => 5:09 pm

FOR CONTINUATION - SEE SHEET C1.01



FOR CONTINUATION - SEE SHEET C1.01

**PLAN**

SCALE: 1" = 20'

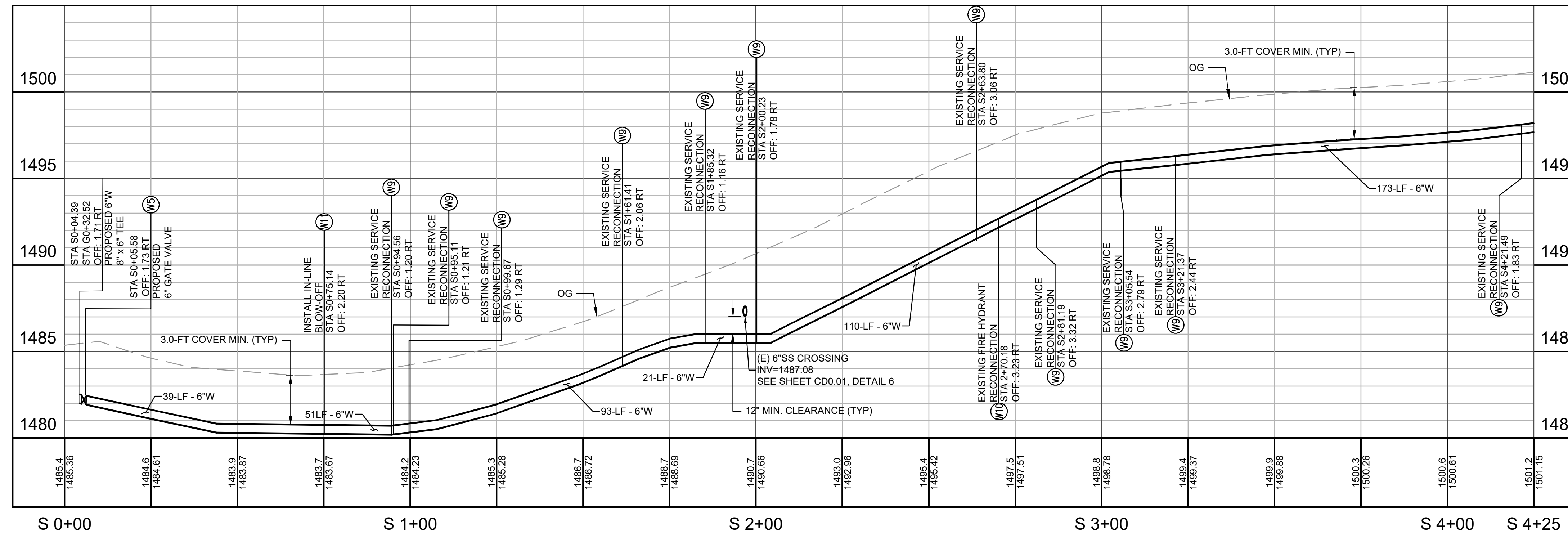
MATCHLINE - SEE SHEET C1.05

**WATER KEY NOTES**

- (W3) EXISTING WATER LINE TO BE ABANDONED UPON COMPLETION OF PROPOSED WATER LINE.
- (W5) INSTALL 6" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE SHEET CD0.03, DETAIL 9.
- (W9) RE-CONNECT (E) SERVICE CONNECTION TO PROPOSED WATER LINE, SEE SHEET CD0.02, DETAIL 7.
- (W10) THE CONTRACTOR SHALL PROVIDE TO THE CITY 7 DAYS NOTICE PRIOR TO DISCONNECTING A FIRE HYDRANT LATERAL FOR SUBSEQUENT RE-CONNECTION TO A PROPOSED WATER MAIN. DIS-CONNECTION AND RE-CONNECTION OF FIRE HYDRANTS SHALL BE COORDINATED WITH THE CITY FIRE DEPARTMENT. CONTRACTOR SHALL STRICTLY FOLLOW INSTRUCTIONS FROM FIRE DEPARTMENT FOR SCHEDULING WORK. SEE SHEET CD0.02, DETAIL 8.
- (W11) INSTALL IN-LINE BLOW-OFF PER CITY STANDARD DRAWING WS-3, SEE SHEET CD0.03, DETAIL 10.

**LEGEND**

- (4"W) EXISTING 4" POTABLE WATER MAIN
- (6"W) EXISTING 6" POTABLE WATER MAIN
- (4"SS) EXISTING 4" SANITARY SEWER
- (6"SS) EXISTING 6" SANITARY SEWER
- (8"SD) EXISTING 8" STORM DRAIN
- (12"SD) EXISTING 12" STORM DRAIN
- (15"SD) EXISTING 15" STORM DRAIN
- (18"SD) EXISTING 18" STORM DRAIN
- (6"W) PROPOSED 6" POTABLE WATER MAIN
- (8"W) PROPOSED 8" POTABLE WATER MAIN



**PROFILE**

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

SHEET No.	TOTAL SHEETS
14	19

**Dewberry**



CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
MARK TWIN WATER SYSTEM IMPROVEMENTS PROJECT  
CONSULTANT PROJECT MANAGER  
D. RICHARD

CALCULATED BY  
DESIGNED BY  
CHECKED BY  
C. AGUIAR  
K. TRAN  
REVISOR  
DATE REVISED  
C. AGUIAR  
02/04/25

**FINAL BID SET**

PROPOSED WATERLINE IMPROVEMENTS  
STANISLAUS AVE PLAN AND PROFILE - 1

USERNAME => caguiar  
DWG FILE => MW11-R1-C1.01-C1.06.dwg



UNIT 0000

PROJECT NUMBER & PHASE

50182984

C1.04

DATE PLOTTED => Feb 04, 2025  
TIME PLOTTED => 5:09 pm

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	C. AGUIAR	DESIGNED BY	C. AGUIAR	REVISOR	C. AGUIAR
MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT	D. RICHARD	C. AGUIAR	CHECKED BY	K. TRAN	DATE	02/04/25

x

x

x

x

x

x

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x

x

x

x

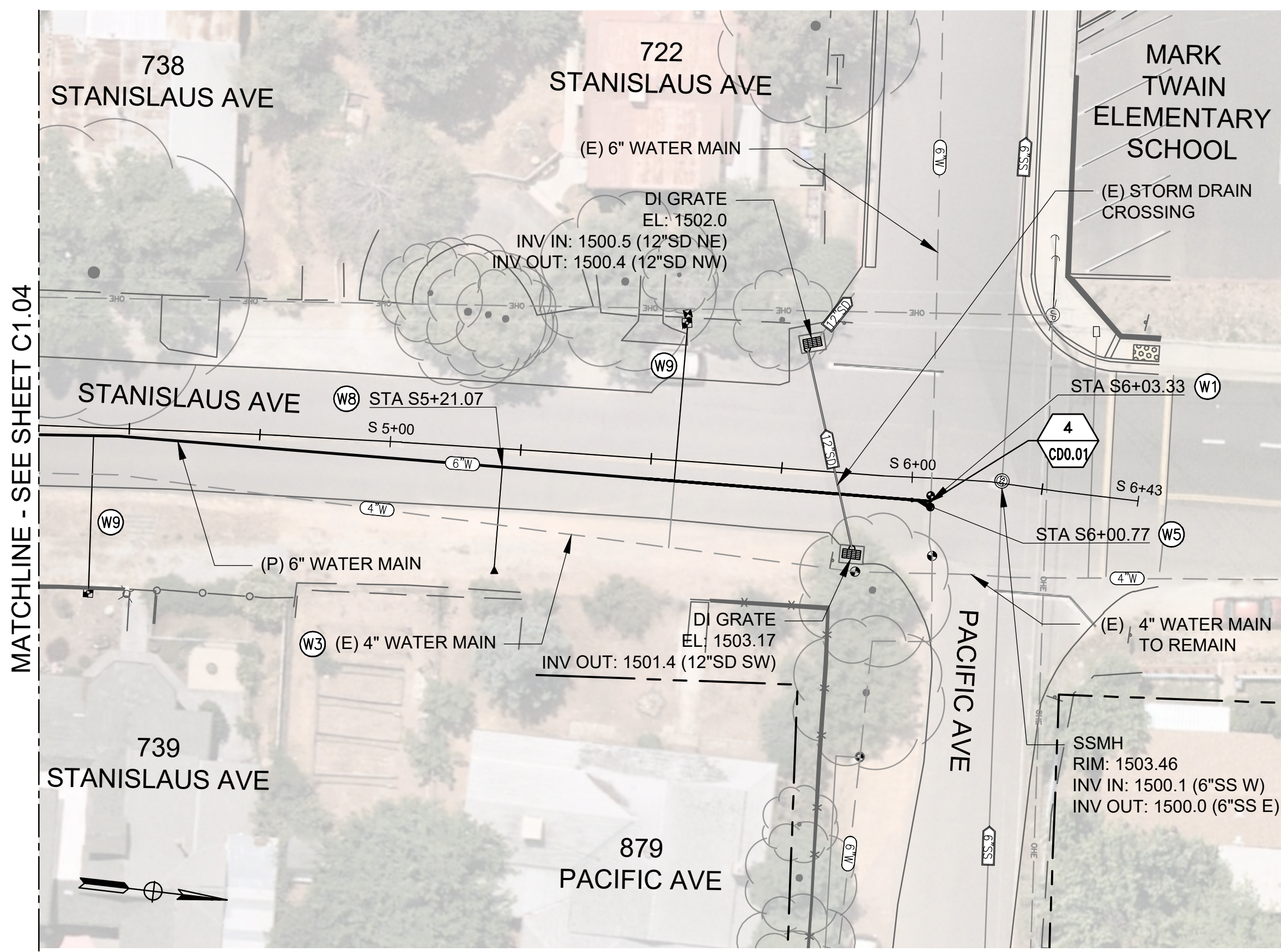
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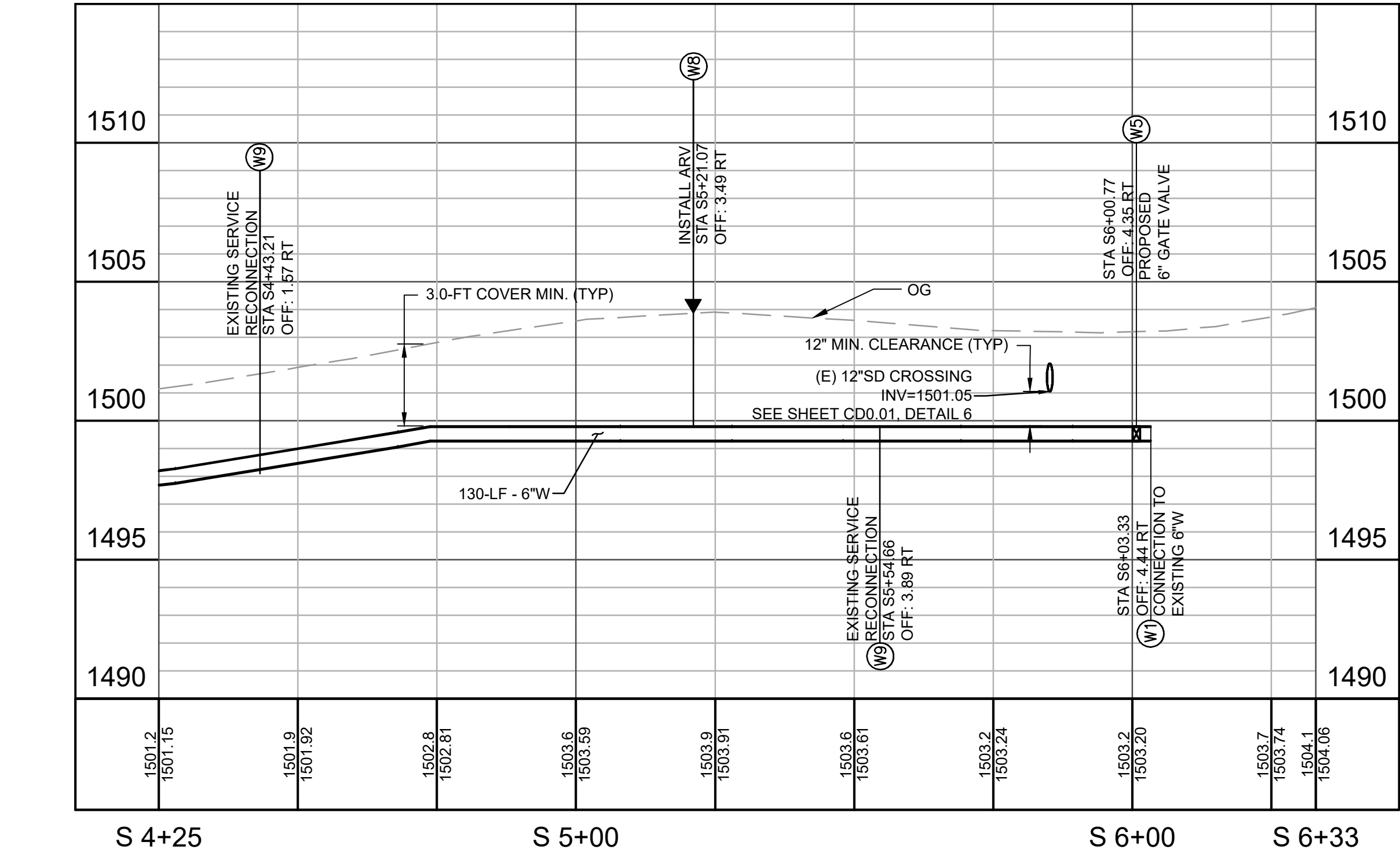
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**PLAN**

SCALE: 1" = 20'



**PROFILE**

HORIZ SCALE: 1" = 20'  
VERT SCALE: 1" = 4'

**Dewberry**

SHEET No. 15 TOTAL SHEETS 19

PROFESSIONAL ENGINEER  
DAVID RICHARD  
No. 33479  
EXP. 6/30/26  
CIVIL  
STATE OF CALIFORNIA

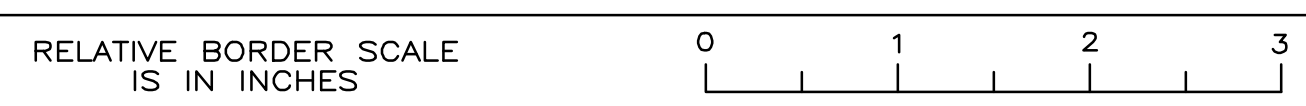
CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

- WATER KEY NOTES**
- (W1) CONNECT TO (E) WATER MAIN PER PLAN.
  - (W3) EXISTING WATER LINE TO BE ABANDONED UPON COMPLETION OF PROPOSED WATER LINE.
  - (W5) INSTALL 6" GATE VALVE PER CITY STANDARD DRAWING WS-1. SEE SHEET CD0.03, DETAIL 9.
  - (WB) INSTALL AIR RELEASE VALVE PER CITY STANDARD DRAWING WS-9. VENT PIPING SHALL HAVE POSITIVE OR FLAT SLOPE FROM ARV TO THE PIPE, SEE SHEET CD0.03, DETAIL 13.
  - (WB) RE-CONNECT (E) SERVICE CONNECTION TO PROPOSED WATER LINE. SEE SHEET CD0.02, DETAIL 7.

- LEGEND**
- (4"W) EXISTING 4" POTABLE WATER MAIN
  - (6"W) EXISTING 6" POTABLE WATER MAIN
  - (4"SS) EXISTING 4" SANITARY SEWER
  - (6"SS) EXISTING 6" SANITARY SEWER
  - (8"SD) EXISTING 8" STORM DRAIN
  - (8"SD) EXISTING 8" STORM DRAIN
  - (12"SD) EXISTING 12" STORM DRAIN
  - (15"SD) EXISTING 15" STORM DRAIN
  - (18"SD) EXISTING 18" STORM DRAIN
  - (6"W) PROPOSED 6" POTABLE WATER MAIN
  - (8"W) PROPOSED 8" POTABLE WATER MAIN

USERNAME => caguiar  
DWG FILE => MWTI-R-C1.01-C1.06.dwg



**FINAL BID SET**

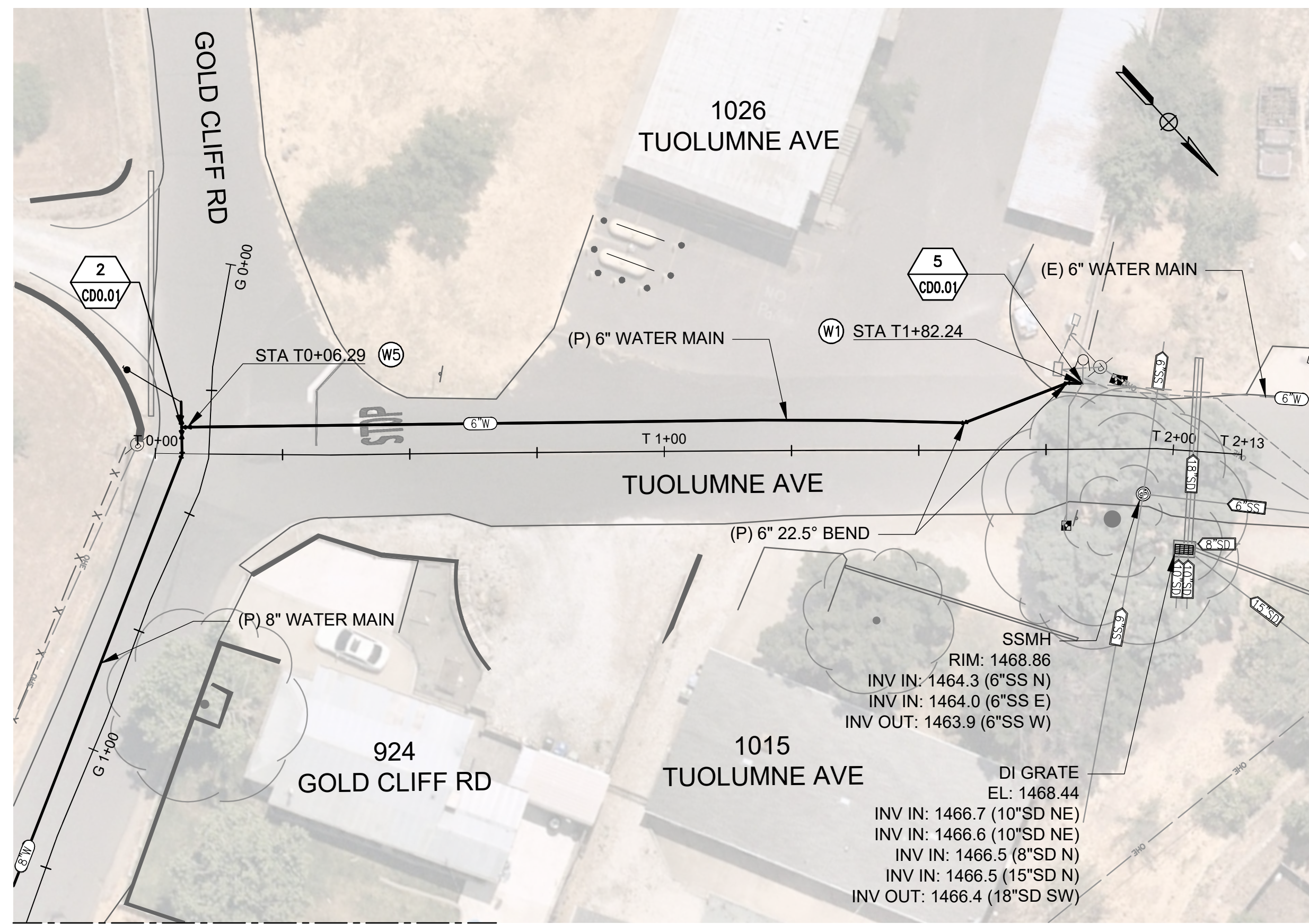
PROPOSED WATERLINE IMPROVEMENTS  
STANISLAUS AVE PLAN AND PROFILE - 2

UNIT 0000 PROJECT NUMBER & PHASE 50182984

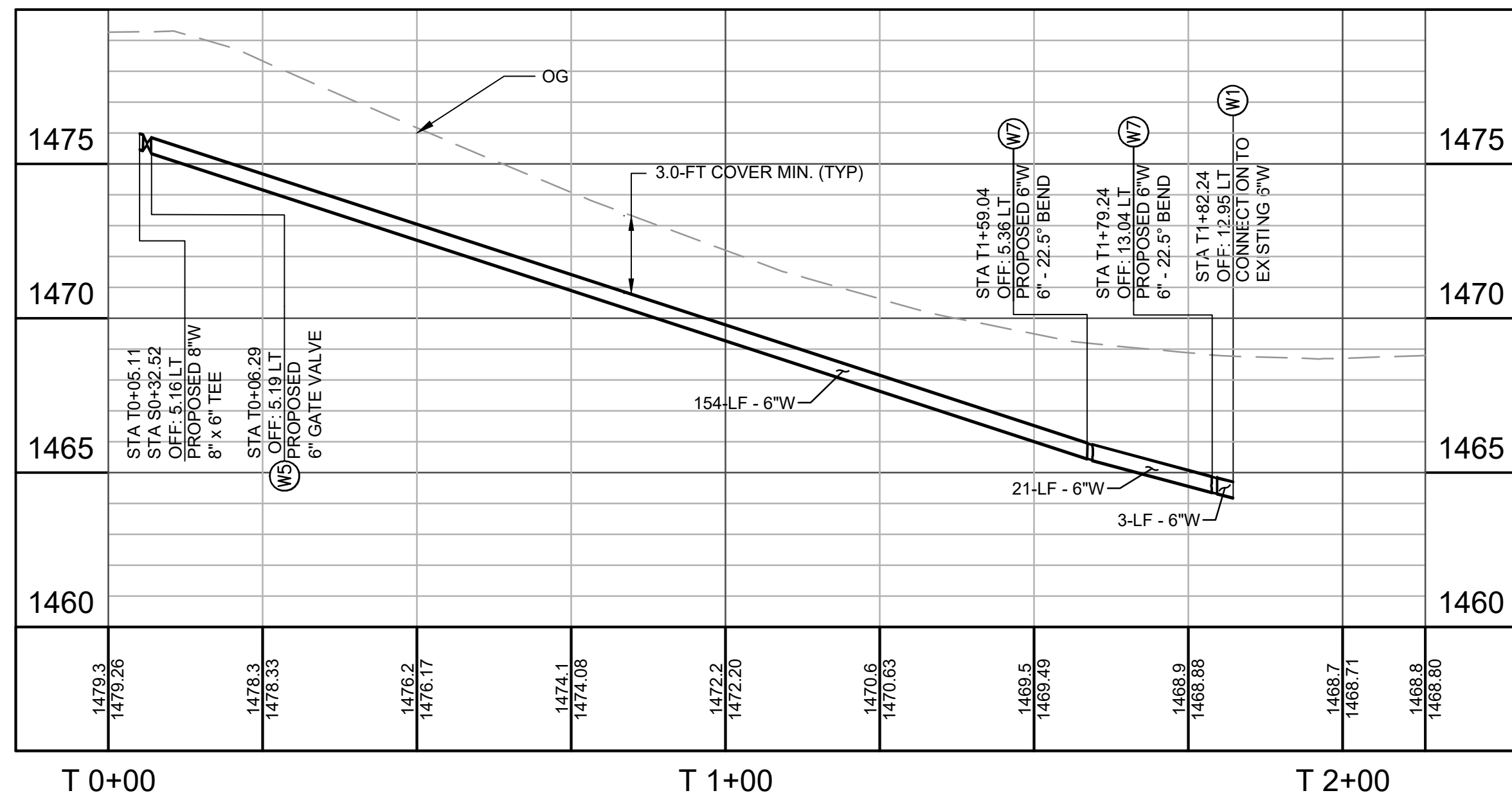
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DATE PLOTTED => Feb 04, 2025  
TIME PLOTTED => 5:10 pm

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS	CONSULTANT PROJECT MANAGER	C. AGUIAR	REVISOR	C. AGUIAR	DATE	02/04/25



FOR CONTINUATION - SEE SHEET C1.01  
**PLAN**  
 SCALE: 1" = 20'



**PROFILE**  
 HORIZ SCALE: 1" = 20'  
 VERT SCALE: 1" = 4'

**Dewberry**

SHEET No. 16 TOTAL SHEETS 19

PROFESSIONAL ENGINEER  
 DAVID RICHARD  
 No. 33479  
 EXP. 6/30/26  
 CIVIL  
 STATE OF CALIFORNIA

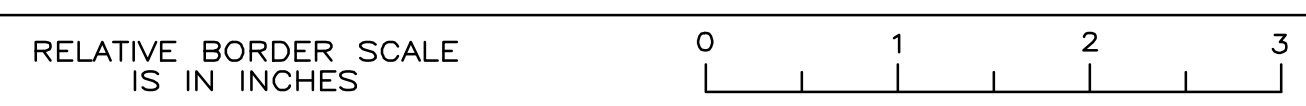
CITY OF ANGELS DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337

- WATER KEY NOTES**
- (W) CONNECT TO (E) WATER MAIN PER PLAN.
  - (WS) INSTALL 6" GATE VALVE PER CITY STANDARD DRAWING WS-1, SEE SHEET CD0.03, DETAIL 9.
  - (W7) INSTALL FITTING AND RESTRAINED JOINTS PER PLAN.

- LEGEND**
- (4"W) EXISTING 4" POTABLE WATER MAIN
  - (6"W) EXISTING 6" POTABLE WATER MAIN
  - (4"SS) EXISTING 4" SANITARY SEWER
  - (6"SS) EXISTING 6" SANITARY SEWER
  - (8"SD) EXISTING 8" STORM DRAIN
  - (12"SD) EXISTING 12" STORM DRAIN
  - (15"SD) EXISTING 15" STORM DRAIN
  - (18"SD) EXISTING 18" STORM DRAIN
  - (6"W) PROPOSED 6" POTABLE WATER MAIN
  - (8"W) PROPOSED 8" POTABLE WATER MAIN

USERNAME => caguiar  
 DWG FILE => MW1-R-C1.01-C1.06.dwg



**FINAL BID SET**

PROPOSED WATERLINE IMPROVEMENTS  
 TUOLUMNE AVE PLAN AND PROFILE

UNIT 0000 PROJECT NUMBER & PHASE 50182984

C1.06

DATE PLOTTED => Feb 04, 2025  
 TIME PLOTTED => 5:10 pm





CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

REVISOR

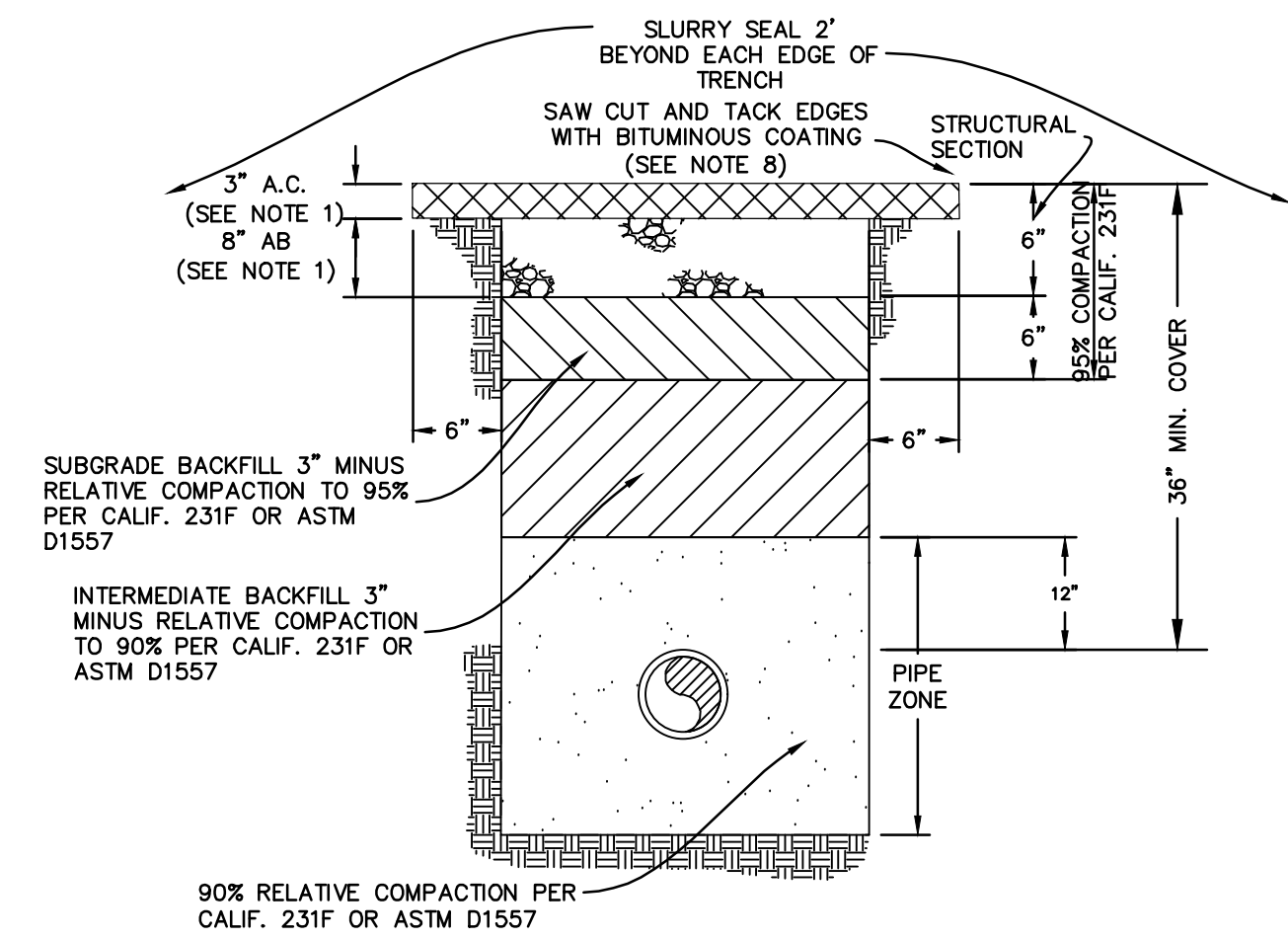
DATE

BY

CHECKED BY

PROJECT MANAGER

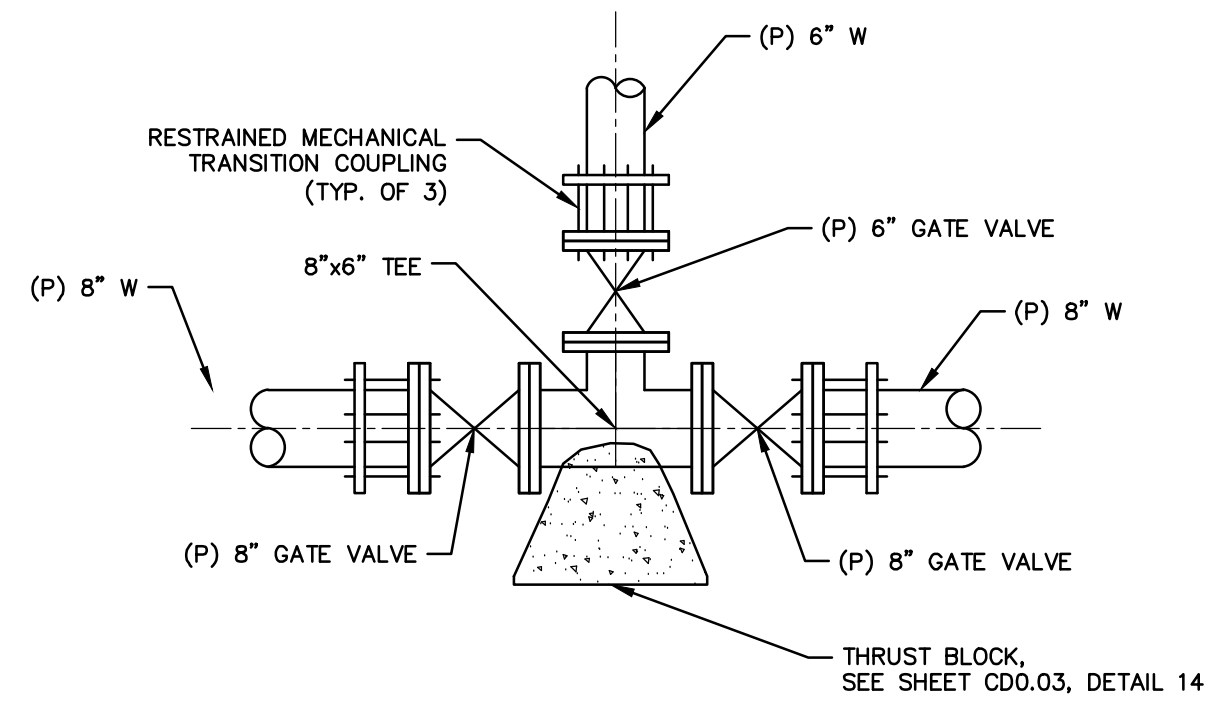
PROJECT



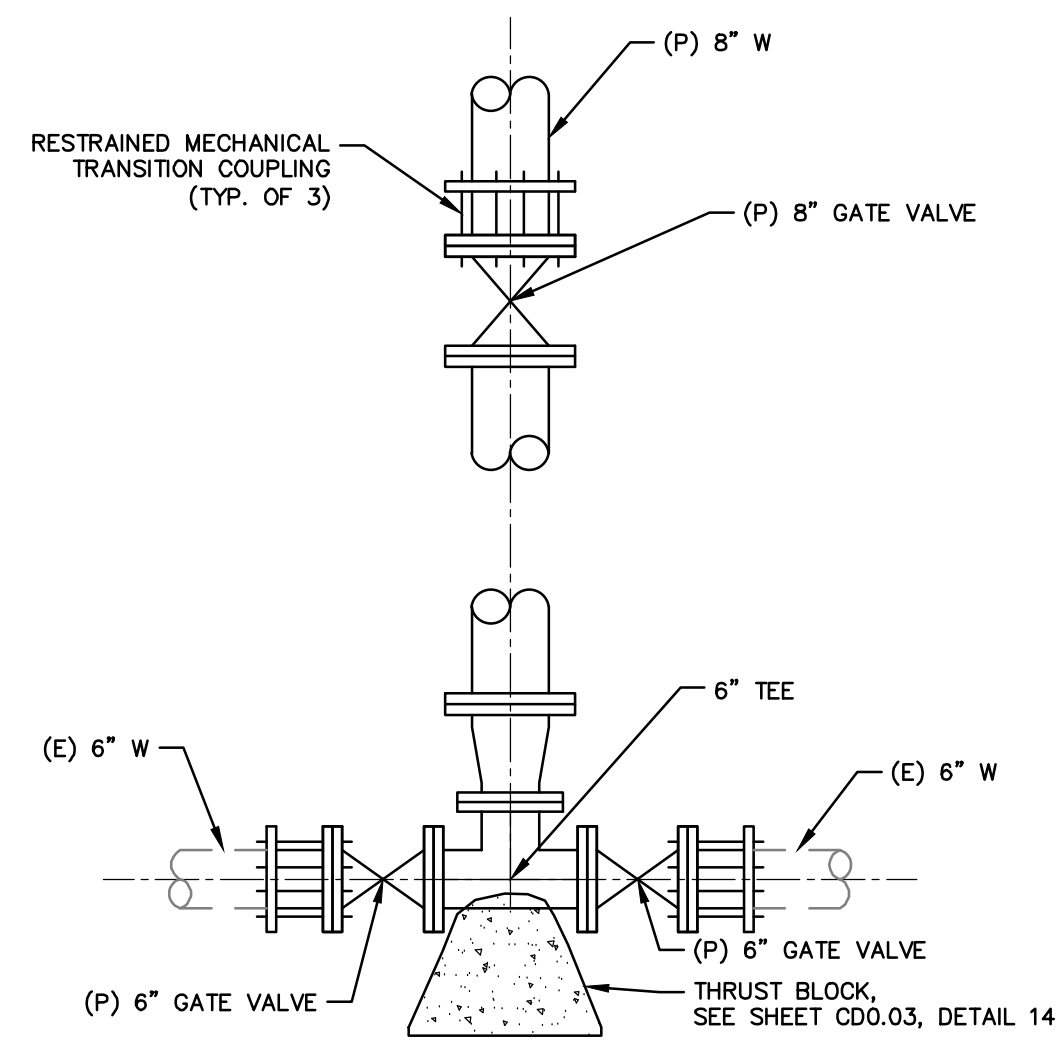
**NOTES:**

- STRUCTURAL SECTION SHALL BE 3" A.C. AND 8" AB MINIMUM, OR MATCH EXISTING THICKNESS.
- PONDING OR JETTING NOT PERMITTED UNDER OR WITHIN 2' OF EXISTING ROADWAY.
- IN ROADWAY FILL STEEPER THAN 4:1, THE OUTER EDGE OF TRENCH SHALL BE AT LEAST 18" FROM HINGE POINT.
- LONGITUDINAL PAVEMENT REPLACEMENT SHALL BE FROM THE INNER CUT LINE TO THE EDGE OF EXISTING PAVEMENT, WHEN THE REMAINING PAVEMENT WIDTH WOULD BE LESS THAN 3 FEET. ON COLLECTOR ROADS, PAVEMENT SHALL BE REPLACED FROM CENTERLINE.
- REPLACE ALL OBLITERATED PAVEMENT MARKINGS.
- ON COLLECTOR ROADS, INTERMEDIATE BACKFILL SHALL BE 3/4" AB COMPACTED TO 95%. A CONCRETE/SAND SLURRY (2 SACK) MAY BE USED IN PLACE OF 3/4" AB.
- FINAL PAVEMENT REPLACEMENT SHALL HAVE A UNIFORM WIDTH AND SHALL BE APPROVED BY AN INSPECTOR BEFORE SAW CUTTING.

**TRENCH SECTION** 1  
NOT TO SCALE TYP



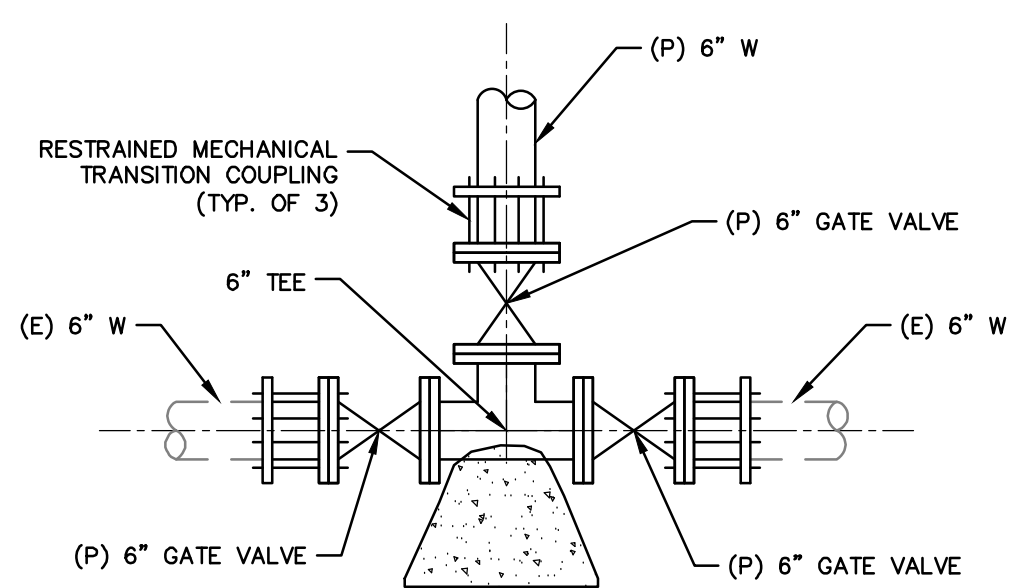
**WATER CONNECTION DETAIL 1** 2  
SEE SHEETS C1.01, C1.03, C1.04, C1.06  
NOT TO SCALE \*



**NOTES FOR WATER CONNECTION DETAIL NO. 2:**

- CITY TO ISOLATE (E) 6"W IN MARK TWAIN ROAD PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL RESTRAIN (E) 6"W PRIOR TO CUTTING PIPE.
- CONTRACTOR SHALL CUT PIPE, DRAIN LINE, AND INSTALL VALVES, COUPLINGS, AND TEE.
- CONTRACTOR SHALL PRESSURE TEST CONNECTION AND DISINFECT AS DIRECTED BY CITY. SAMPLING BY CITY AND BACTERIOLOGICAL TESTING WILL BE ACCOMPLISHED FOLLOWING DISINFECTION OF CONNECTION.

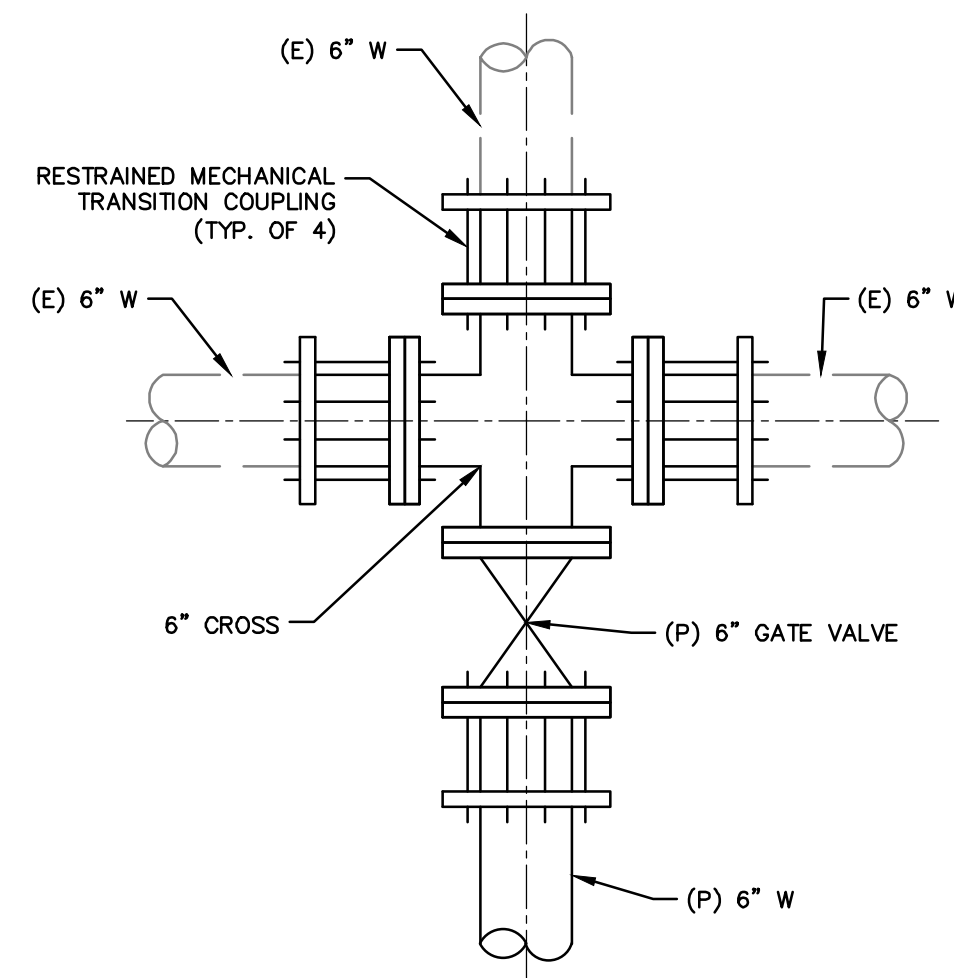
**WATER CONNECTION DETAIL 2** 3  
NOT TO SCALE C1.02



**NOTES FOR WATER CONNECTION NO. 3:**

- CITY TO ISOLATE (E) 6"W IN PACIFIC AVENUE PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL RESTRAIN (E) 6"W PRIOR TO CUTTING PIPE.
- CONTRACTOR SHALL CUT PIPE, DRAIN LINE, AND INSTALL VALVES, COUPLINGS, AND TEE.
- CONTRACTOR SHALL PRESSURE TEST CONNECTION AND DISINFECT AS DIRECTED BY CITY. SAMPLING BY CITY AND BACTERIOLOGICAL TESTING WILL BE ACCOMPLISHED FOLLOWING DISINFECTION OF CONNECTION.

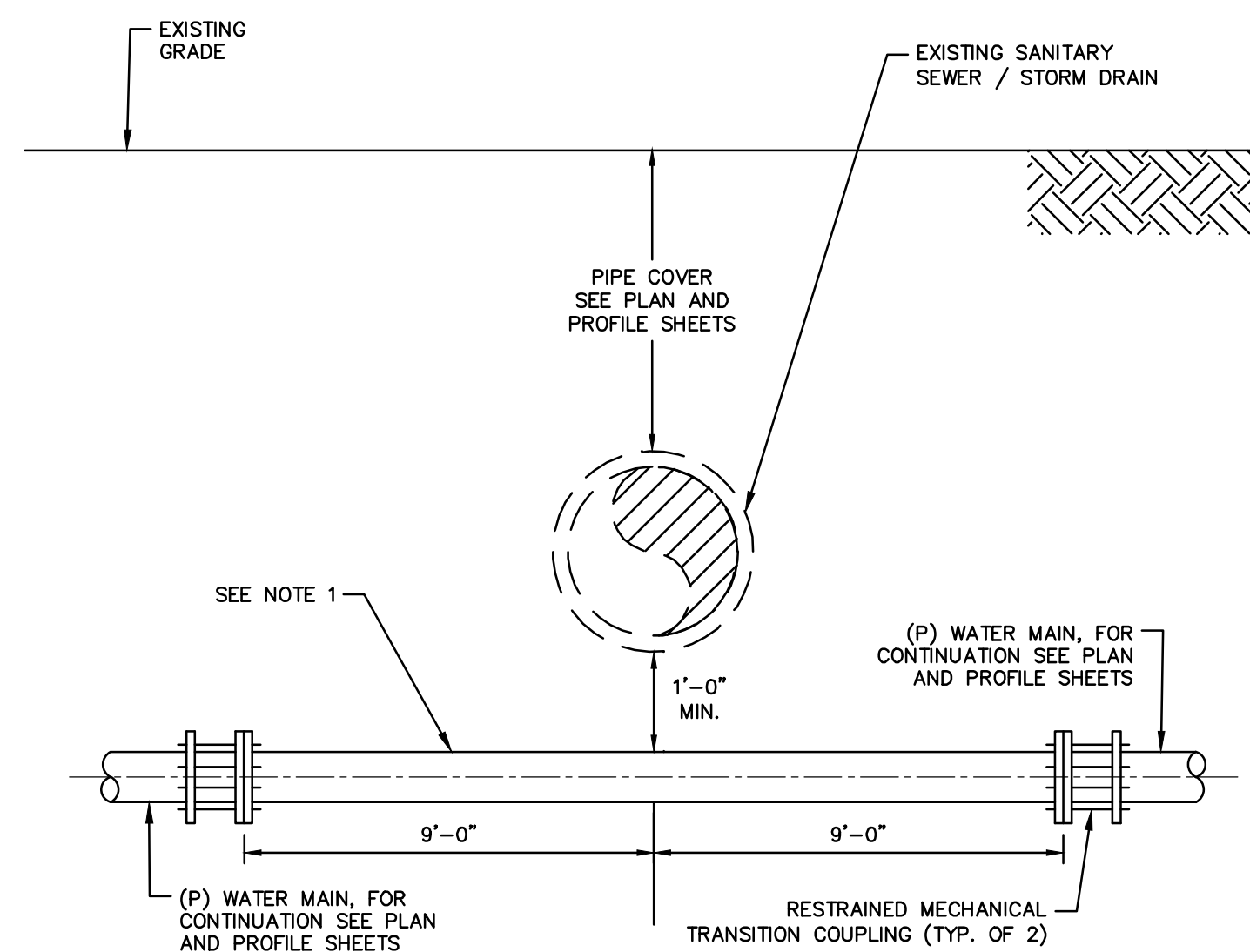
**WATER CONNECTION DETAIL 3** 4  
SEE SHEETS C1.03, C1.05  
NOT TO SCALE \*



**NOTES FOR WATER CONNECTION NO. 4:**

- CITY TO ISOLATE (E) 6"W IN TUOLUMNE AVENUE PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL RESTRAIN (E) 6"W PRIOR TO CUTTING PIPE AND EXISTING TEE.
- CONTRACTOR SHALL CUT PIPE, REMOVE TEE, DRAIN LINE, AND INSTALL VALVES, COUPLINGS, AND CROSS.
- CONTRACTOR SHALL PRESSURE TEST CONNECTION AND DISINFECT AS DIRECTED BY CITY. SAMPLING BY CITY AND BACTERIOLOGICAL TESTING WILL BE ACCOMPLISHED FOLLOWING DISINFECTION OF CONNECTION.

**WATER CONNECTION DETAIL 4** 5  
NOT TO SCALE C1.06




**NOTES FOR WATER MAIN CROSSING DETAIL:**


- FULL 18-FT STICK OF RESTRAINED CLASS 350 DIP CENTERED AT SANITARY SEWER / STORM DRAIN CROSSINGS.
- CONTRACTOR TO POTHOLE EXISTING WATER MAIN TO CONFIRM DEPTH, SIZE, AND TYPE PRIOR TO ORDERING TRANSITION COUPLINGS. ALL REQUIRED FITTINGS AND APPURTENANCES SHALL BE ONSITE PRIOR TO CONTRACTOR REQUESTING A SYSTEM OUTAGE FROM CITY.

**TYPICAL WATER MAIN CROSSING BELOW  
SANITARY SEWER / STORM DRAIN** 6  
SEE SHEETS C1.01, C1.02, C1.04, C1.05  
NOT TO SCALE \*

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
 MARK TWAIN WATER SYSTEM IMPROVEMENTS PROJECT  
 CONSULTANT PROJECT MANAGER  
 D. RICHARD  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 C. AGUIAR  
 K. TRAN  
 REVISED BY  
 DATE REVISED  
 C. AGUIAR  
 02/04/25

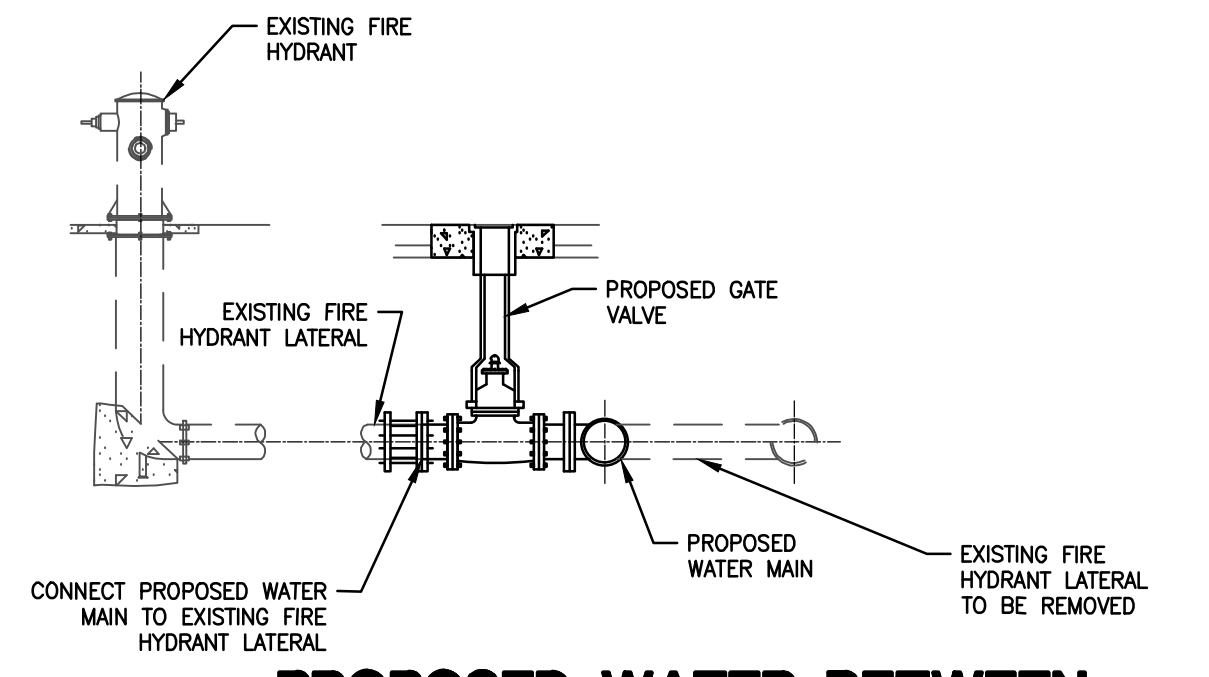
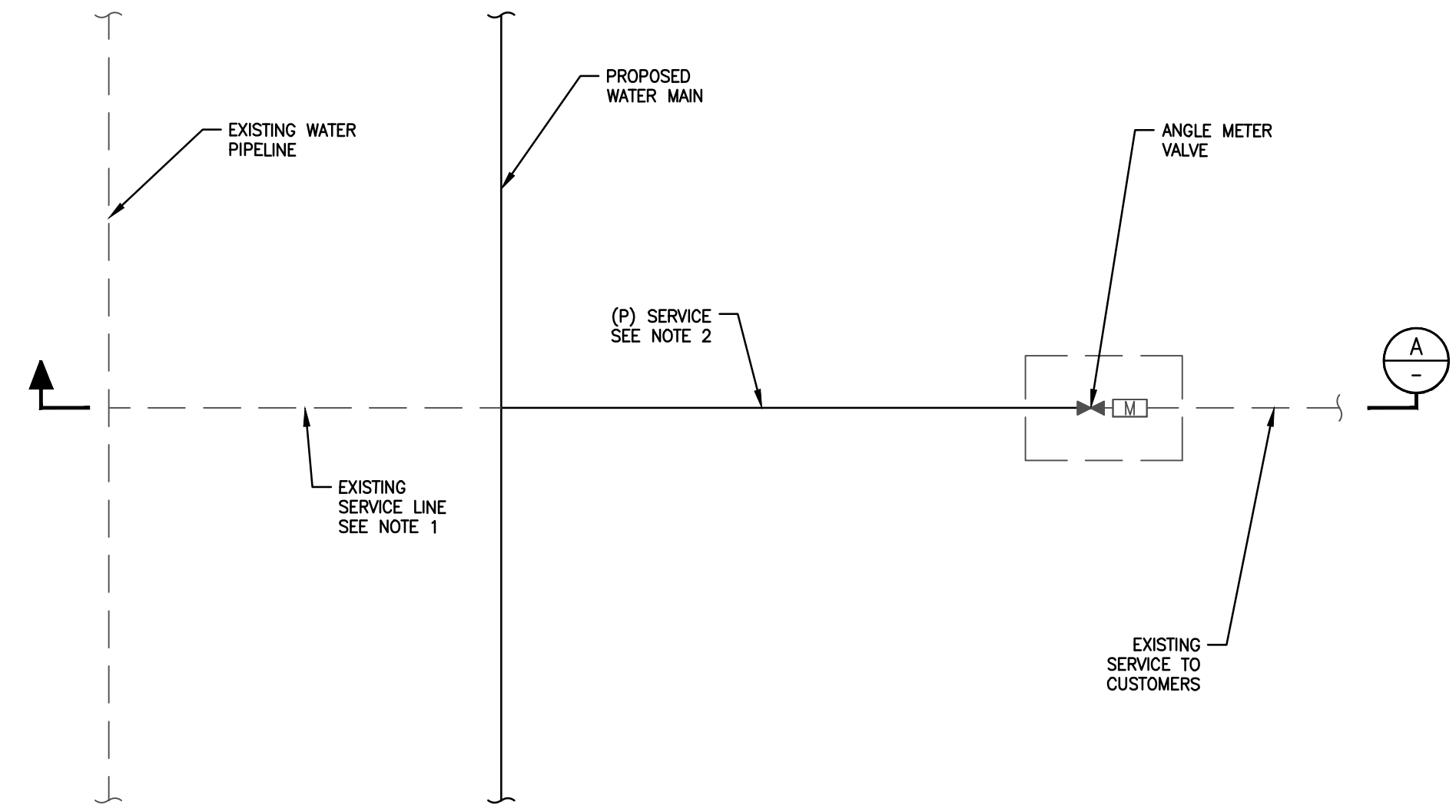
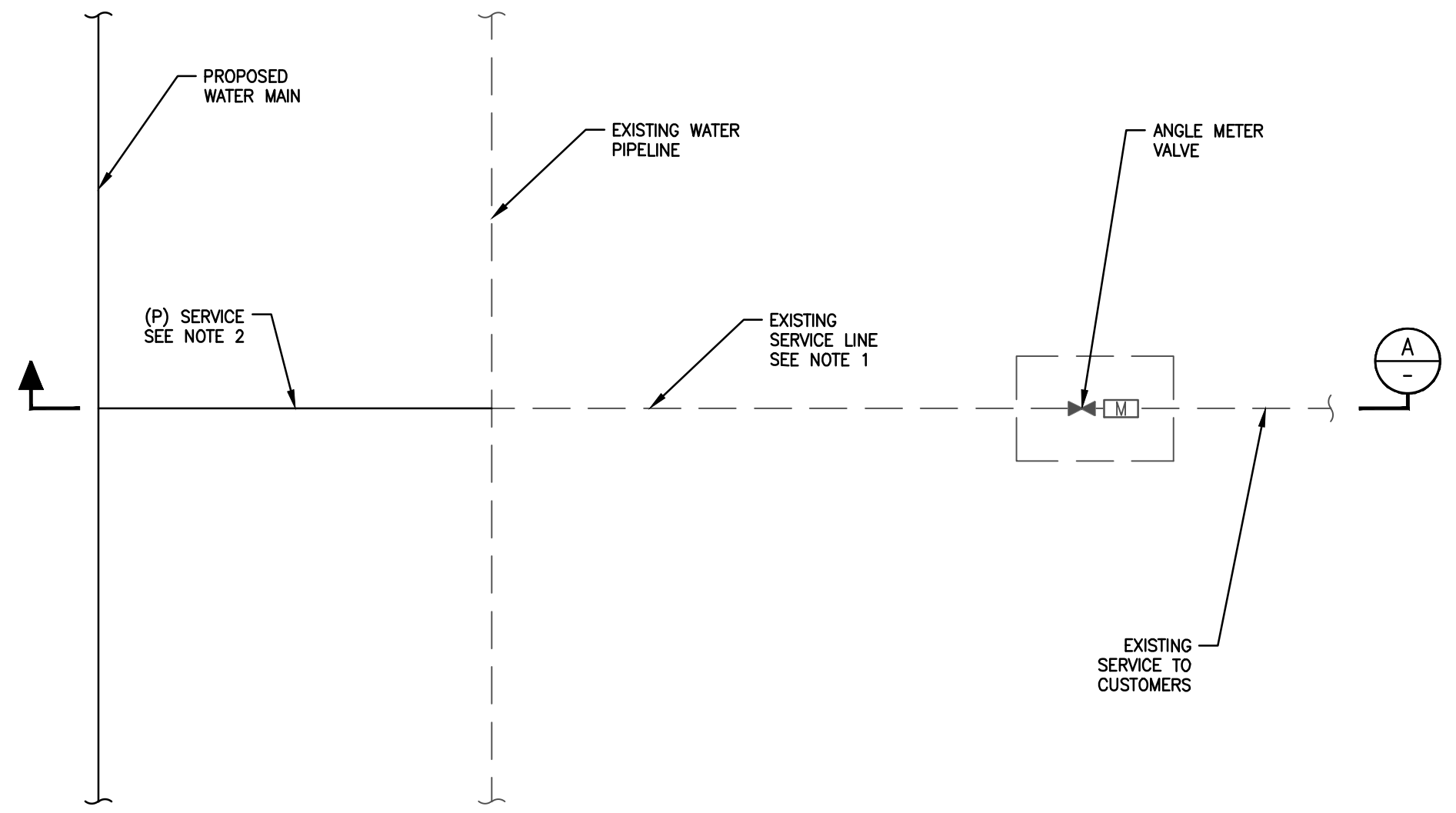


SHEET No. 18	TOTAL SHEETS 19
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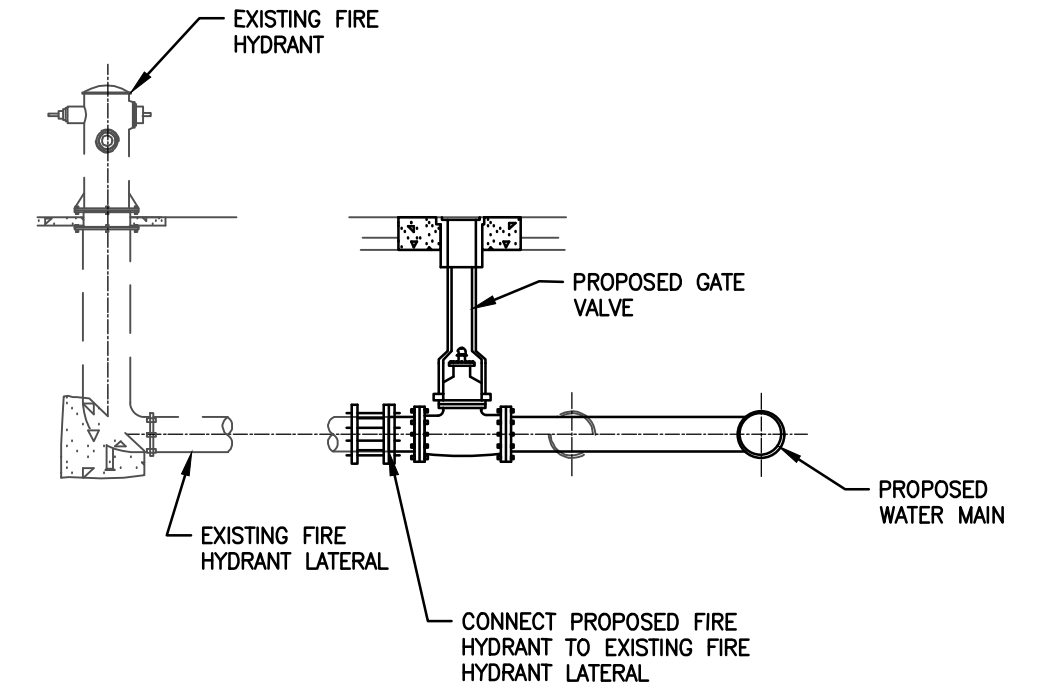
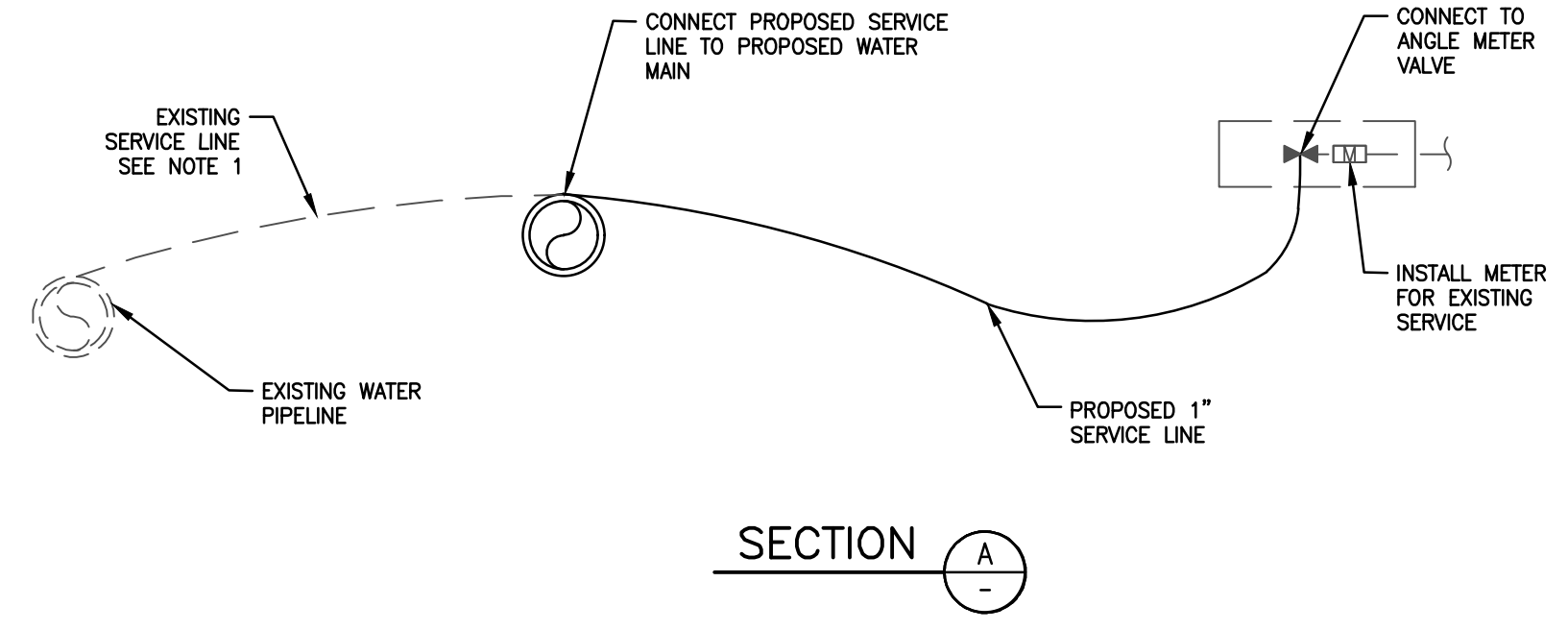
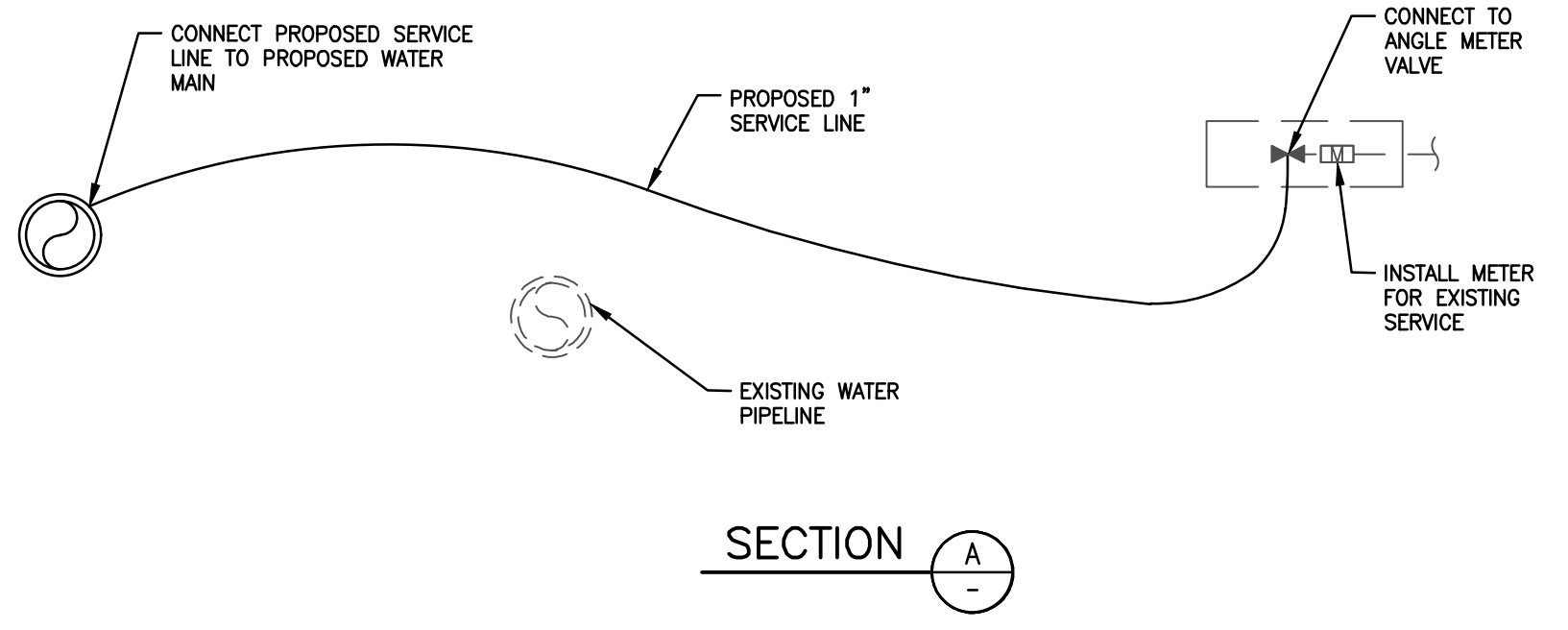


CITY OF ANGELS  
 DEPARTMENT OF PUBLIC WORKS  
 2990 CENTENNIAL ROAD  
 ANGELS CAMP, CA 95222

DEWBERRY  
 903 W CENTER STREET  
 MANTECA, CA 95337



**PROPOSED WATER BETWEEN EXISTING MAIN LINE AND FIRE HYDRANT**



**EXISTING WATER BETWEEN PROPOSED MAIN LINE AND FIRE HYDRANT**

- NOTES**
1. DISCONNECT EXISTING SERVICE AND REMOVE SERVICE LINE BETWEEN MAINLINE AT ANGLE METER VALVE TO AVOID CONFLICT WITH NEW SERVICE LINE.
  2. REPLACE SERVICE LINE FROM (P) MAINLINE TO ANGLE METER VALVE. FOR ROUTING SEE SECTION A.
  3. ROUTE PROPOSED 1" SERVICE ABOVE EXISTING WATER LINE.
  4. PROPOSED SERVICE LINE SHALL BE ROUTED BELOW EXISTING SIDEWALK.
  5. FOLLOWING COMPLETION OF CUTOVER, SIDEWALK/LANDSCAPING SHALL BE RESTORED TO PRE-PROJECT CONDITION.
  6. CONTRACTOR MAY PROPOSE ALTERNATIVE METHOD FOR WATER SERVICE LINE REPLACEMENT FOR CITY APPROVAL.

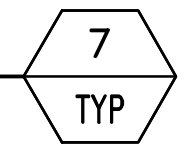
- NOTES**
1. DISCONNECT EXISTING SERVICE AND REMOVE SERVICE LINE BETWEEN MAINLINE AT ANGLE METER VALVE TO AVOID CONFLICT WITH NEW SERVICE LINE.
  2. REPLACE SERVICE LINE FROM (P) MAINLINE TO ANGLE METER VALVE. FOR ROUTING SEE SECTION A.
  3. PROPOSED SERVICE LINE SHALL BE ROUTED BELOW EXISTING SIDEWALK.
  4. FOLLOWING COMPLETION OF CUTOVER, SIDEWALK/LANDSCAPING SHALL BE RESTORED TO PRE-PROJECT CONDITION.
  5. CONTRACTOR MAY PROPOSE ALTERNATIVE METHOD FOR WATER SERVICE LINE REPLACEMENT FOR CITY APPROVAL.

**RECONNECTION OF FIRE HYDRANT DETAIL**  
NOT TO SCALE

**EXISTING WATER BETWEEN PROPOSED MAIN LINE AND METER BOX**

**PROPOSED MAINLINE BETWEEN EXISTING WATERLINE AND METER BOX**

**RECONNECTION OF WATER SERVICE DETAIL**  
NOT TO SCALE



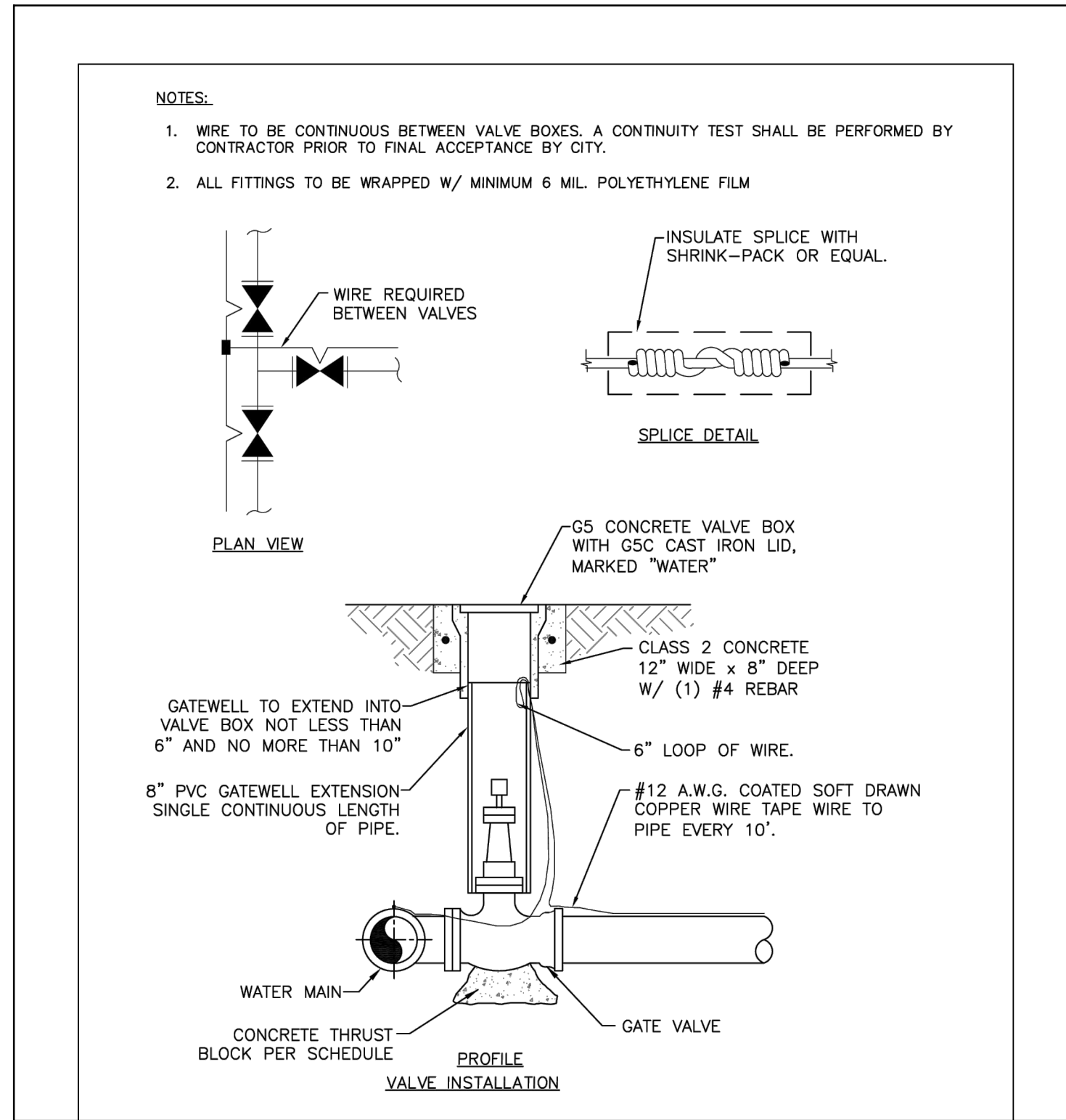
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CITY OF ANGELS  
DEPARTMENT OF PUBLIC WORKS  
2990 CENTENNIAL ROAD  
ANGELS CAMP, CA 95222

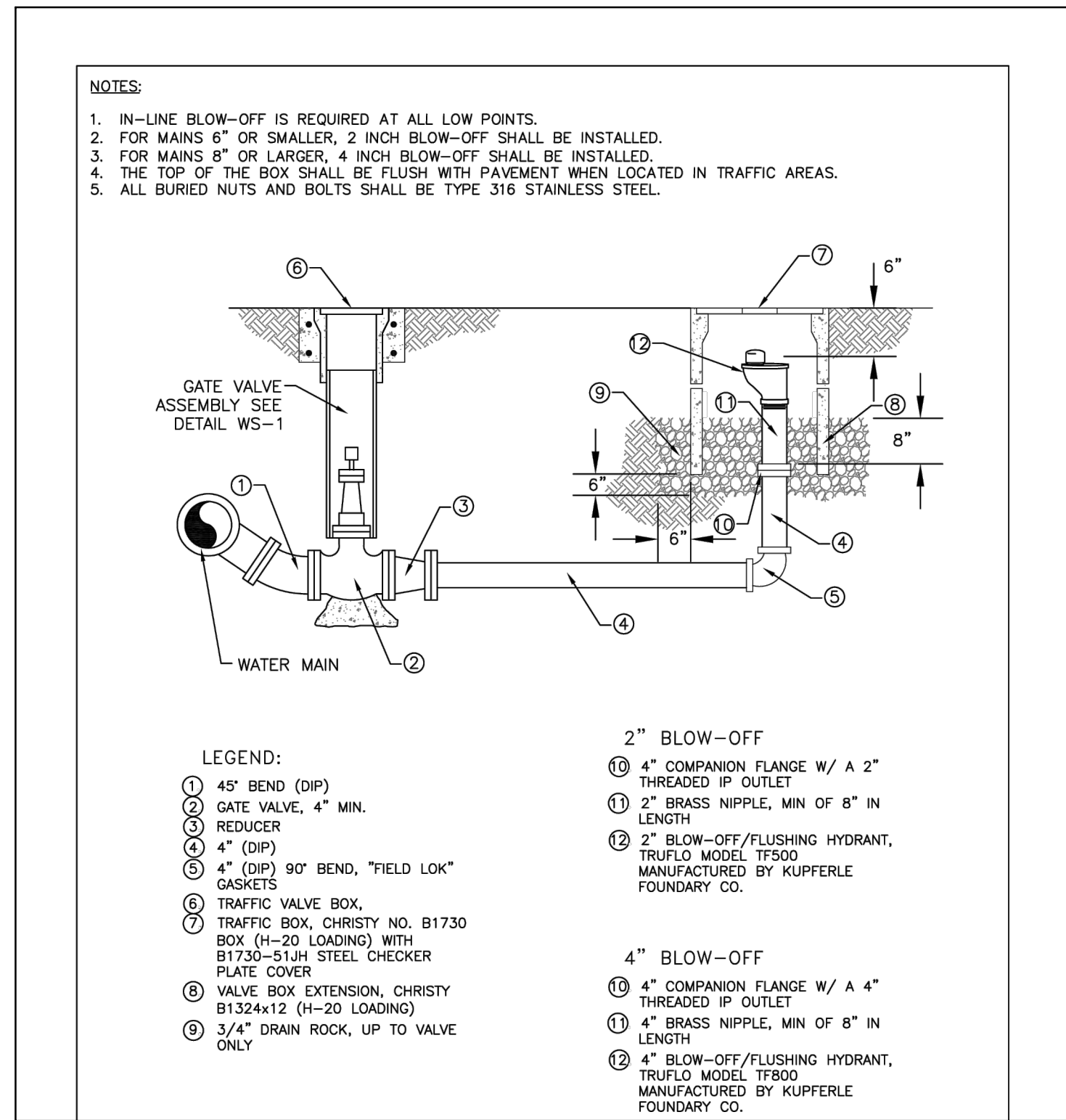
DEWBERRY  
903 W CENTER STREET  
MANTECA, CA 95337

CITY OF ANGELS - DEPARTMENT OF PUBLIC WORKS  
MARK TWIN WATER SYSTEM IMPROVEMENTS PROJECT  
CONSULTANT PROJECT MANAGER D. RICHARD  
C. AGUIAR  
REVISOR C. AGUIAR  
DATE 02/04/25  
CHECKED BY K. TRAN



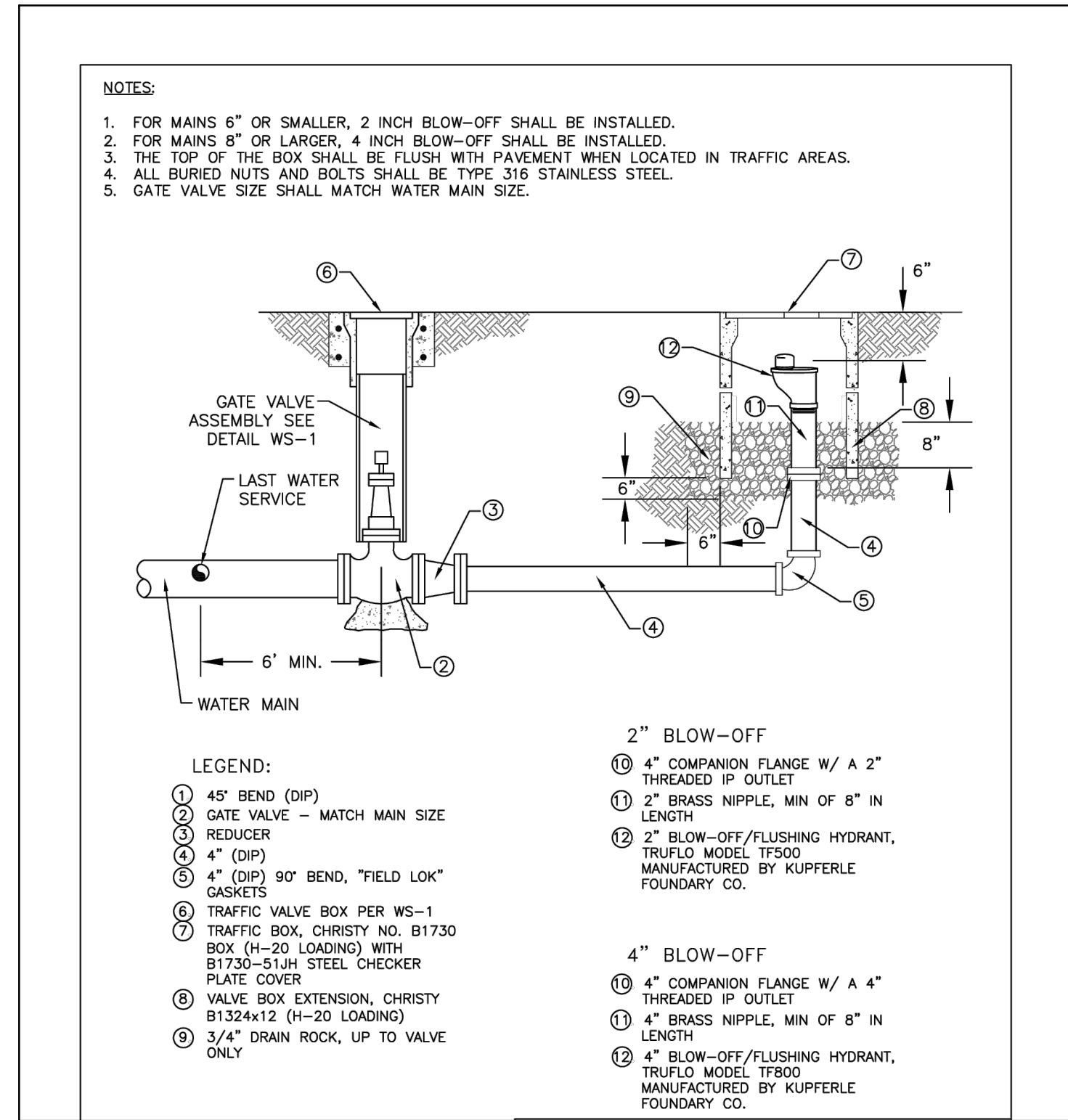
**CITY OF ANGELS - STANDARD DRAWING WS-1 VALVE AND LOCATING WIRE INSTALLATION DETAIL**  
NOT TO SCALE

9 TYP



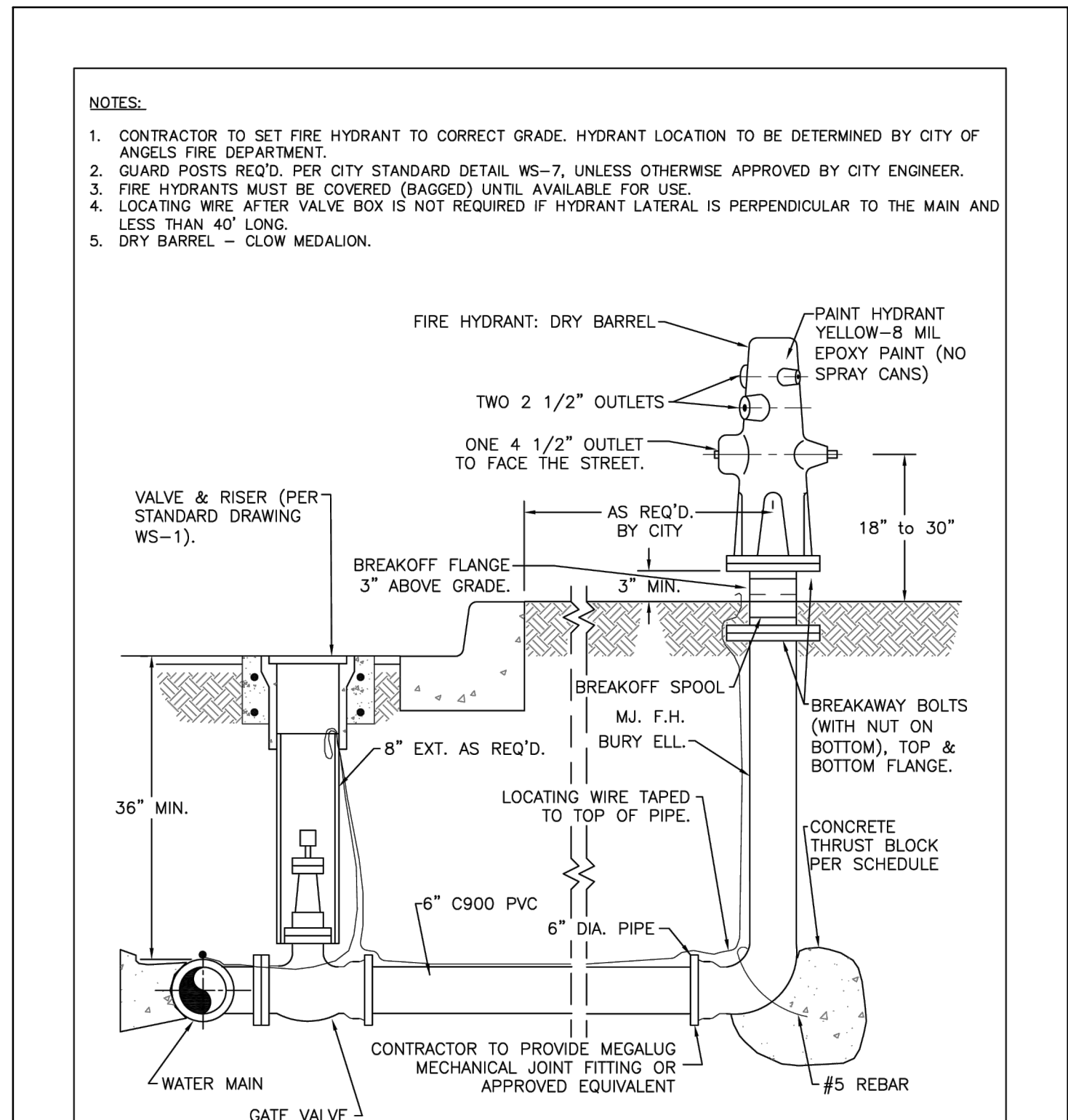
**CITY OF ANGELS - STANDARD DRAWING WS-3 IN-LINE BLOW-OFF ASSEMBLY DETAIL**  
NOT TO SCALE

10 TYP



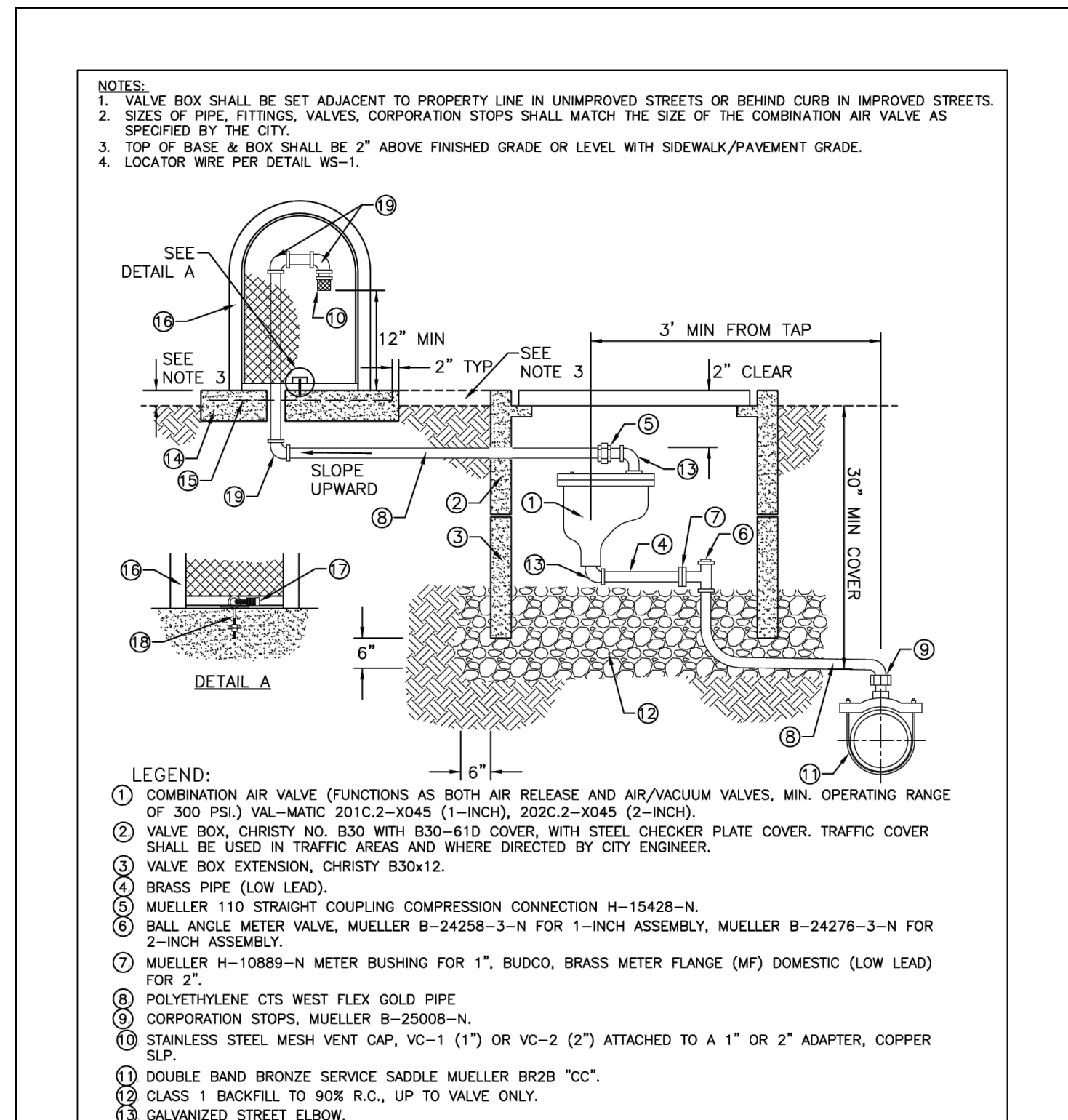
**CITY OF ANGELS - STANDARD DRAWING WS-4 DEAD END BLOW-OFF ASSEMBLY DETAIL**  
NOT TO SCALE

11 TYP



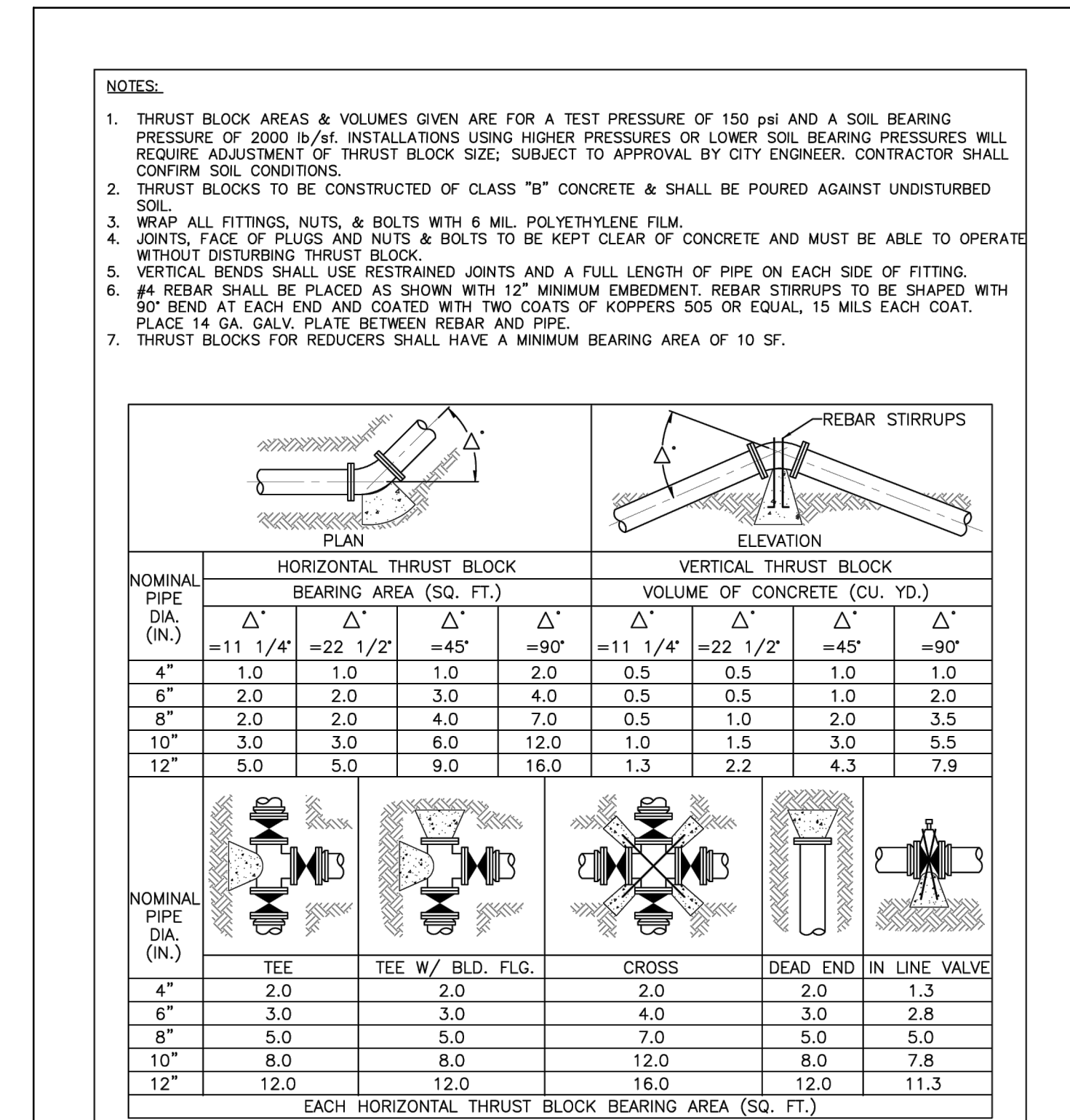
**CITY OF ANGELS - STANDARD DRAWING WS-6 FIRE HYDRANT & BLOW-OFF ASSEMBLY DETAIL**  
NOT TO SCALE

12 TYP



**CITY OF ANGELS - STANDARD DRAWING WS-9 AIR & VACUUM RELEASE VALVE DETAIL**  
NOT TO SCALE

13 TYP



**CITY OF ANGELS - STANDARD DRAWING WS-13 THRUST BLOCK DETAIL**  
NOT TO SCALE

14 TYP