

# UTILTY/AGENCY CONTACT LIST

PG&E WESTLANDS WATER DISTRICT FRESNO COUNTY CALTRANS

CALL CENTER	800
ALEX YOUNG	559
MITCH WRIGHT	559
JOE ESPINOSA	559

0-743-5000 9-884-2523 9-994-4744 9-349-0450

County of Fresno Board of Supervisors

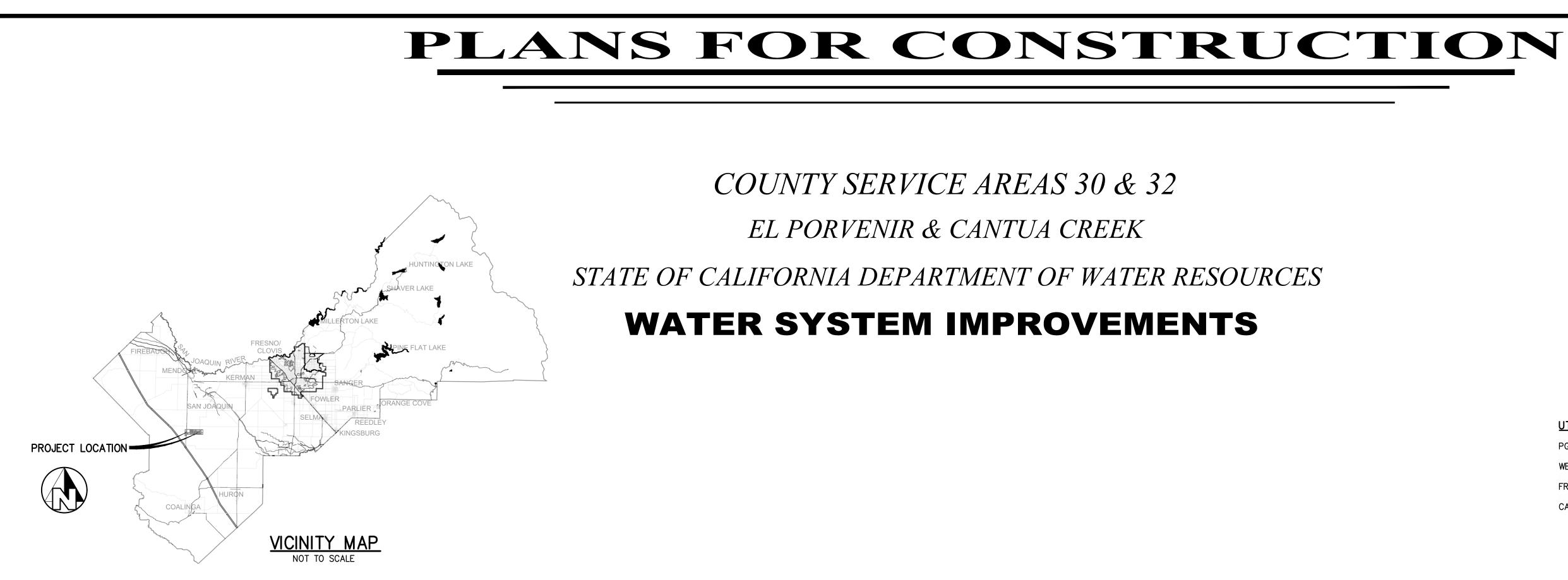
Ernest Buddy Mendes	Chairman	4th	District
Steve Brandau	Vice Chairman	2nd	District
Brian Pacheco		1st	District
Sal Quintero		3rd	District
Nathan Magsig		5th	District

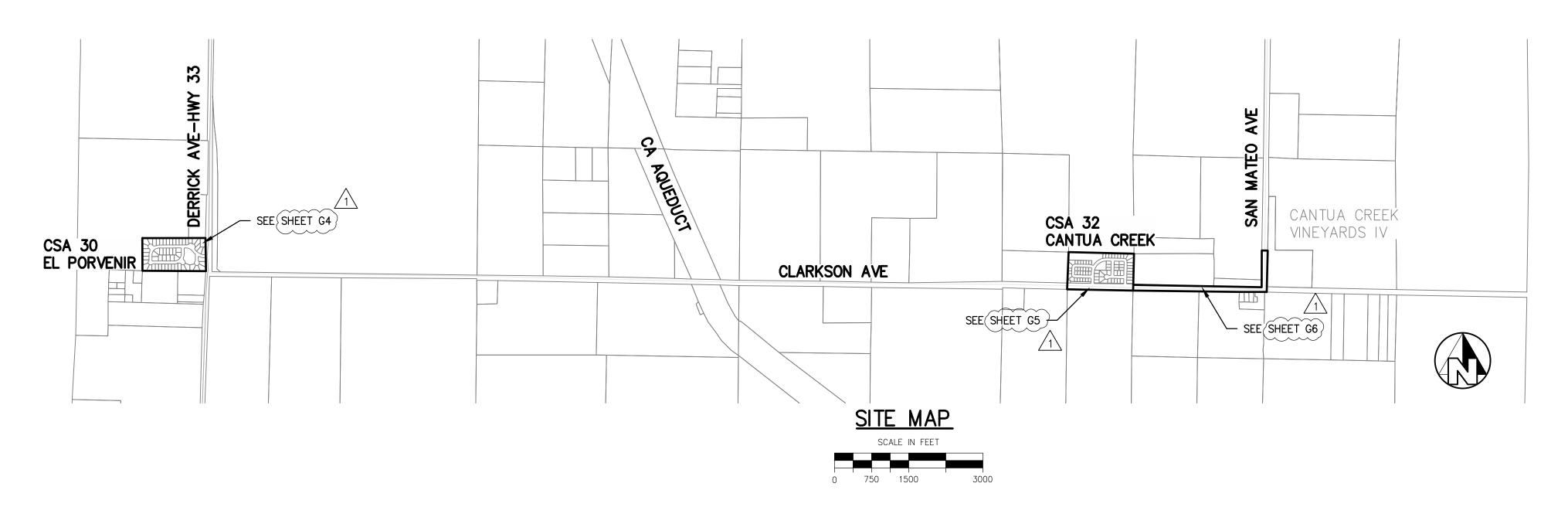
Jean M. Rousseau County Administrative Officer

Steven E. White, Director Department of Public Works and Planning Department of Public Works and Planning

CALIFO	ORNIA CONTRA	ACTOR'S LICEN	SES REQUIRED	FOR THIS PRO	JECT
	CLASS A, GEI	NERAL ENGINE	ERING; CLASS	C34, PIPELINE	
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11305		N/A		G1	33
		CONTRACT	NO. 20-10-C		
		RECORD	DRAWING		
NAME TETO	UCAT Com		And a second		
INAIVIE 161	HERI LON	VSTRUCTIO	N		
ADDRESS 577	1 TOYOT	A PL. FI		A 9372	5
1620				A 9372	5
1620	2 7040-			CA 9372	5
ADDRESS 577	2 7040-	TA PL. FI		2A 9372	5
ADDRESS 577 CITY FRESI	2 TOYOT	TA PL. FI		2A 9372	5
ADDRESS 577 CITY FRESP PHONE 559- DATE AWARDED	2 TOYOT	TA PL. FI			5
ADDRESS 577 CITY FRESP PHONE 559- DATE AWARDED	2 TOYOT NO 813-310 02-23- 06-07-	10 2021		2A 9372 ZIP	5
ADDRESS 577 CITY FRESP PHONE 559 DATE AWARDED ( DATE STARTED (	2 TOYOT NO 813-310 02-23- 06-07-	10 2021 2021 2022			5
ADDRESS 577 CITY FRESP PHONE 559 DATE AWARDED ( DATE STARTED (	2 TOYOT NO 813-310 02-23- 06-07-	10 2021 2021 2022	LESNO C		5

SIGNATU SIGNATURE







# DEPARTMENT OF PUBLIC WORKS AND PLANNING

# UTILTY/AGENCY CONTACT LIST

PG&E	CALL CENTER	800-743-5000
WESTLANDS WATER DISTRICT	ALEX YOUNG	559-884-2523
FRESNO COUNTY	MITCH WRIGHT	559-994-4744
CALTRANS	JOE ESPINOSA	559-349-0450

County of Fresno Board of Supervisors

Jean M. Rousseau County Administrative Officer

APPROVED

Steven E. White, Director Department of Public Works and Planning

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT						
CLASS A, GENERAL ENGINEERING; CLASS C34, PIPELINE						
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL	
11305		N/A		G1	34 2	
		CONTRACT	NO. 20-10-C	•		
		RECORD	DRAWING			
NAME						
ADDRESS						
CITY STATE ZIP						
PHONE						
DATE AWARDED						
DATE STARTED						
DATE COMPLETED						
		RESIDENT	ENGINEER			
NAME		SIGN	IATURE			
NAME		SIGN	IATURE			

		SHEET INDEX
SHEET NO.	SHEET NO.	DESCRIPTION
	GENERAL	
1	G1	COVER SHEET
2	G2	SHEET INDEX & GENERAL NOTES
3	G3	CIVIL LEGEND
4	G4	EL PORVENIR INDEX SHEET
5	G5	CANTUA CREEK INDEX SHEET 1
6	G6	CANTUA CREEK INDEX SHEET 2
7	G7	HORIZONTAL CONTROL PLAN
	PLAN & PROFILE:	CSA 30 EL PORVENIR
8	C1-1	W EL PROGRESSO AVE STA 10+00 TO 18+99
9	C1-2	W EL PROGRESSO AVE STA 20+00 TO END
10	C1-3	W HIDALGO AVE STA 30+00 TO END
11	C1-4	TANK SITE STA 40+00 JUAREZ AVE STA 50+00
	PLAN & PROFILE:	CSA 32 CANTUA CREEK
12	C2-1	W LATTA AVE STA 60+00 TO 64+17
13	C2-2	W LATTA AVE STA 65+00 TO END
14	C2-3	W HIDALGO AVE STA 73+00 TO END
15	C2-4	DOMENGINE & TERRADO AVE
16	C2-5	S CHAPPO AVE STA 90+00 TO END
17	C2-6	S SANTA CLARA AVE STA 94+00 TO END
18	C2-7	W CLARKSON AVE STA 100+00 TO STA 107+50
19	C2-8	W CLARKSON AVE STA 107+50 TO 112+84
20	C2-9	W CLARKSON AVE STA 125+50 TO 135+00
21	C2-10	CLARKSON & SAN MATEO AVE STA 135+00 TO END
22	C2-11	PUMP CONNECTION AT TANK SITE
23	C2-12	W CLARKSON AVE SOUTH STA 234+03 TO 236+71
	DETAILS	
24	CD-1	CONSTRUCTION DETAILS
25	CD-2	CONSTRUCTION DETAILS
26	CD-3	CONSTRUCTION DETAILS
27	CD-4	CONNECTION & MISC DETAILS
28	CD-5	CONNECTION & MISC DETAILS
29	CD-6	CONNECTION & MISC DETAILS
30	CD-7	ABANDONMENT DETAILS
31	CD-8	CSA 30 EL PORVENIR WATER MAIN ABANDONMENT
32	CD-9	CSA 32 CANTUA CREEK WATER MAIN ABANDONMENT
33 -	CD-10	_ CSA 32 CLARKSON AVENUE WATER MAIN ABANDONME
34	CD-11	AS-BUILT DETAILS

### BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 34, TOWNSHIP 16 SOUTH, RANGE 15 EAST, M.D.B.& M., IS TAKEN TO BEAR N 89° 59' 26" W PER MAP OF TRACT NO. 3456, CANTUA CREEK SUBDIVISION NO. 1, RECORDED IN VOLUME 39, PAGES 23 & 24 OF PLATS, FRESNO COUNTY RECORDS.

# BASIS OF COORDINATES

THE NORTH QUARTER CORNER OF SECTION 34, TOWNSHIP 16 SOUTH, RANGE 15 EAST, M.D.B.& M., IS ASSUMED TO BE AT COORDINATES:

E = 28.757.155 N = 9,938.331

### **BASIS OF ELEVATIONS**

FRESNO COUNTY BENCH MARK MF 127 1/2, A USC&G BRASS CAP MONUMENT STAMPED "128.48L" LOCATED 1.0' WEST OF THE EAST END OF THE NORTH CONCRETE CURB ON THE CLARKSON AVE. BRIDGE OVER THE CALIFORNIA AQUEDUCT. ELEVATION IS ASSUMED TO BE 339.51 US SURVEY FEET TO APPROXIMATE THE DATUM USED FOR USBR PLANS.

### TOPOGRAPHY NOTE

TOPOGRAPHY SHOWN IS FIELD SURVEY DATA PROVIDED BY THE COUNTY OF FRESNO DATED OCTOBER 16, 2016, AND SUPPLEMENTED BY FIELD SURVEYS CONDUCTED UNDER THE DIRECTION OF TIM ODOM, PLS 8468.

### BOUNDARY NOTE

THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON RECORD INFORMATION TIED TO PHYSICAL MONUMENTS, AND WAS PREPARED UNDER THE DIRECTION OF TIM ODOM, PLS 8468.

CONSTRUCTION NOTES

SEWER, RAW WATER, GAS AND STORM DRAIN UTILITY CROSSINGS:

- A. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING UTILITY PIPES AS THE FIRST ORDER OF WORK AND SHALL NOTIFY THE ENGINEER OF ANY OBSERVED CONFLICTS WITH THE PROPOSED WATER MAIN PROFILES. IN NO CASE WILL LESS THAN 4" CLEARANCE BE ALLOWED BETWEEN EXISTING UTILITIES AND NEW WATER MAINS.
- B. IF THE NEW WATER MAIN IN CSA 30 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF CLASS 350 DR XTREME OR DR FLEX DIP PIPE WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
- C. IF THE NEW WATER MAIN IN CSA 32 IS ABOVE THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL INSTALL A MINIMUM LENGTH OF 20' OF AWWA C-900 CLASS 305 (DR14) PVC WITHOUT JOINTS, CENTERED ON THE EXISTING UTILITY PIPE.
- D. FOR BOTH CONDITION B AND C ABOVE, IF THE NEW WATER MAIN IS INSTALLED BELOW THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12". A CEMENT SLURRY BACKFILL SHALL BE REQUIRED PER DETAIL 1 ON DRAWING NO. CD-1 IN ADDITION TO THE REQUIREMENTS LISTED ABOVE.
- 2. SEWER LATERAL CROSSINGS:
- A. NEW WATER MAINS SHALL BE INSTALLED ABOVE EXISTING SEWER HOUSE BRANCH LATERALS WITH A MINIMUM CLEARANCE OF 4".
- B. WHEREVER NECESSARY, EXISTING SEWWER HOUSE BRANCH LATERALS IN CONFLICT WITH THE NEW WATER MAIN PROFILE SHALL BE REMOVED AND REINSTALLED AS SHOWN PER DETAIL 3 ON DRAWING NO. CD-6.
- 2. THE NEW WATER MAIN PROFILES SHOWN HEREON INCLUDE VERTICAL GRADE BREAKS THAT SHOULD THEORETICALLY BE POSSIBLE TO MAKE BY MINOR DEFLECTIONS AT PIPE JOINTS. IF CHANGES NEED TO BE MADE TO THE PROFILES DUE TO EXISTING UTILITY CONFLICTS, ADDITIONAL VERTICAL BEND FITTINGS MAY NEED TO BE INSTALLED. HOWEVER, NO CHANGES SHALL BE MADE TO THE PROFILES WITHOUT APPROVAL BY THE ENGINEER.
- COMBINATION AIR VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN THE PIPE PROFILE, AT THE LOCATIONS SHOWN ON THE PLANS. IF ADDITIONAL HIGH POINTS ARE CREATED DUE TO DEVIATIONS FROM THE DESIGN PROFILES. ADDITIONAL COMBINATION AIR VALVES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
- MINIMUM DEPTH OF COVER OVER THE NEW WATER MAINS SHALL BE MAINTAINED AS SPECIFIED ON THE PLANS. ANYWHERE MINIMUM COVER CANNOT BE ACHIEVED, IMPROVED PIPE BEDDING, INCLUDING CONCRETE SLURRY CRADLES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

	DATE	RECORD DRAWING	Ì	SCALE
DESIGNED: JDL	06/30/2020		DATE	
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 – SHEET REFERENCES	09/10/2020	
CHECKED: MWK	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022	
FOR RIGHT OF WAY DATA AND ACCI	JRATE ACCESS DETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLAN	INING.	

### SPECIAL NOTE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

### SITE SAFETY AND PROTECTION NOTES

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

THE CONTRACTOR AGREES THAT IT 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: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS 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 OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY. SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

EXCESS MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE ROAD RIGHT-OF-WAY AND DISPOSED OF BY THE CONTRACTOR AT THE END OF CONSTRUCTION OPERATIONS, NIGHTLY.

#### WATER FACILITY NOTES

- 1. THE WORK CONTAINED HEREIN SHALL COMPLY WITH TITLE 22 SECTION 64572 OF THE CALIFORNIA CODE OF REGULATIONS
- 2. USED MATERIAL, REJECTS, MISFITS, OR SECONDS, ETC. ARE NOT ACCEPTABLE FOR USE ON COUNTY OF FRESNO FACILITIES.
- 3. TYPICAL MINIMUM PIPE COVER FOR ALL DIP PIPE SHALL BE 3.0 FEET (2.5 FEET ALLOWED WHERE APPROVED BY THE ENGINEER.)
- 4. MINIMUM PIPE COVER FOR ALL PVC PIPE LOCATED IN PAVEMENT SHALL BE 3.0 FEET.
- 5. MINIMUM PIPE COVER FOR ALL PVC PIPE NOT LOCATED IN PAVEMENT SHALL BE 3.5 FEET.
- WATER MAIN SHALL BE INSTALLED WITH BEDDING, PIPE ZONE BACKFILL, MARKER TAPE, AND TRACER WIRE PER DETAIL 2 ON DRAWING (CD-1.) TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT CONTAINED IN THE SPECIFICATIONS.
- 7. PERMANENT TRENCH RESURFACING SHALL BE IN ACCORDANCE WITH DETAIL 8 ON DRAWING (CD-3)/7
- 8. FIRE HYDRANTS SHALL BE INSTALLED PER DETAIL 1 ON DRAWING (CD-2) /  $\frac{1}{1}$

ÉNGINEER OF RECORD

- 9. WATER SERVICES SHALL BE INSTALLED BY TRENCH INSTALLATION OR BORED INTO PLACE AS DETERMINED BY THE CONTRACTOR. 10. RESTRAINED JOINTS ARE TO BE USED EVERYWHERE ON THE PROJECT EXCEPT AT LOCATIONS SPECIFIED ON THE PLANS\_AND DETAILS
- OR SPECIALLY APPROVED BY THE ENGINEER. RESTRAINED JOINTS ARE TO BE INSTALLED, PER DETAILS ON DRAWING (CD-3) THRUST BLOCK DESIGN AND SIZE ARE ARE TO BE INSTALLED PER DETAIL 1 ON SHEET (CD-3.) /-
- 11. PERMANENT BLOW-OFF DEVICES SHALL BE INSTALLED PER DETAIL 4 ON DRAWING (CD-2)
- 12. GATE VALVES SHALL BE INSTALLED PER PROJECT SPECIFICATIONS AND DETAIL 3 ON DRAWING (CD-2)/1
- 13. WATER METERS SHALL BE BADGER PER SPECIFICATION SECTION 33 10 00. NO SUBSTITUTIONS SHALL BE ALLOWED.
- 14. NEW WATER FACILITIES SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 15. AFTER THE WATER SYSTEM HAS BEEN TESTED AND ACCEPTED, CONNECTIONS TO THE WATER SERVICES AT THE METER WILL BE COMPLETED.
- 16. PLACE FIRE HYDRANT MINIMUM 5' CLEAR OF DRIVE APPROACHES AND OBSTRUCTIONS AS DIRECTED BY ENGINEER.
- 17. ALL BURIED WATER MAIN SHALL BE OF THE TYPE AND CLASS SPECIFIED ON THE PLANS. ALL BURIED DUCTILE IRON PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT.
- 18. ALL ABOVE GROUND PIPE 4" OR LARGER IN DIAMETER SHALL BE DUCTILE IRON PIPE WITH FLANGED CONNECTIONS PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 19. AT LOCATIONS WHERE NEW WATER MAIN CONFLICTS WITH EXISTING WATER MAIN, EXISTING ASBESTOS CONCRETE WATER MAINS SHALL BE REMOVED AND DISPOSED OF AS NOTED ON THE PLANS AND PER ALL APPLICABLE REQUIREMENTS.
- 20. ANY EXISTING WATER SERVICES THAT CONFLICT WITH THE NEW PIPELINE ALIGNMENT SHALL BE REMOVED AND TEMPORARILY REPLACED.

21. ANY EXISTING SEWER SERVICES CONFLICTING WITH NEW WATER LINE SHALL BE RELAID PER DETAIL 3 ON SHEET (CD-6)/(1)UTILITY POLE SPECIAL NOTES

DATE

- 1. POLES SHALL BE SUPPORTED AT ALL TIMES WHERE OUTSIDE EDGE OF TRENCH IS WITHIN 5' OF OUTSIDE EDGE OF POLE UNTIL SUCH TIME THAT TRENCH IS BACKFILLED AND COMPACTED. THE CONTRACTOR SHALL SUPPORT EXISTING POLES IN A MANNER APPROVED IN ADVANCE BY UTILITY COMPANY.
- 2. THE CONTRACTOR SHALL NOTIFY UTILITY IN ADVANCE OF STARTING CONSTRUCTION ACTIVITIES REQUIRING POLE HOLDING AND OBTAIN A POLE HOLDING PERMIT.

SED PROFESSIONAL	PROJECT
11/15/2022	CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
_ <u>11/15/2022</u> ★	COUNTY OF FRESNO

ROAD NO. N/A

### GENERAL NOTES

- REFERENCED.
- DISCREPANCIES.

- CALIFORNIA AND CAL/OSHA STANDARDS.
- BE ARRANGED BY THE OWNER.
- ORIGINAL CONDITION.

#### EXISTING UTILITY NOTES

- FACILITY CONFLICTS.
- AS SPECIFICALLY NOTED HEREIN.
- FACILITIES.
- CROSSINGS.

### WESTLAND'S WATER DISTRICT NOTES

- AND DEPTH OF FACILITY.
- FOR REVIEW AND APPROVAL.
- WATER DISTRICT FACILITIES.

### SPECIAL PLAN & PROFILE PLAN NOTES

- CONNECTION TO THE WATER MAIN.
- ALIGNMENT.

BRIDGE NO. N/A

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND ALL OTHER STANDARDS

2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY OF FRESNO AND OBTAIN APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. TRAFFIC CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.

THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM CALTRANS FOR ANY TRAFFIC CONTROL OR OTHER INCIDENTAL WORK REQUIRED WITHIN THE STATE HIGHWAY 33 RIGHT OF WAY.

THE CONTRACTOR SHALL REPLACE ANY DISTURBED WARNING MARKERS, SIGNS, STRIPING, CROSS BARS AND STOP BARS AS NECESSARY AND AS DIRECTED BY THE COUNTY.

WORK WITHIN WESTLANDS WATER IRRIGATION DISTRICT EASEMENT (SEE SHEET C2-10) SHALL BE COMPLETED IN ACCORDANCE WITH CONSTRUCTION NOTES SHOWN ON THIS SHEET AND INCLUDED IN THE PROJECT DETAILS.

THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION MEASURES SPECIFIED IN SECTION 01 35 43.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES AND COMPLYING WITH ALL REQUIREMENTS OF THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT. REFER TO THE PROJECT SPECIFICATIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO THE PROJECT SPECIFICATIONS.

10. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF

11. ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON PROJECT COMPLETION.

12. A PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF IMPROVEMENTS SHALL

13. THE CONTRACTOR SHALL CONDUCT A VIDEO OF THE ENTIRE PROJECT LIMITS TO RECORD PRE-EXISTING CONDITIONS OF THE COUNTY ROAD AND PROPERTY FRONTAGE IMPROVEMENTS PRIOR TO THE START OF CONSTRUCTION.

14. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: FENCES, GATES, MAILBOXES, CONCRETE, AND LANDSCAPING. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REPLACED "IN KIND" AND RESTORED TO THEIR

THE CONTRACTOR SHALL POTHOLE ALL EXISTING FACILITIES IDENTIFIED PRIOR TO THE START OF CONSTRUCTION AS FIRST ORDER OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION TO ALLOW ADVANCE DECISIONS TO BE MADE ON NECESSARY RELOCATIONS OR GRADE CHANGES TO PROPOSED FACILITIES. THE COUNTY RESIDENT ENGINEER SHALL APPROVE FIELD CHANGES THAT INCLUDE ANY RELOCATIONS AND GRADE CHANGES ASSOCIATED WITH EXISTING

POTHOLING SHALL EXPOSE THOSE FACILITIES THAT MAY AFFECT THE LOCATION OR DEPTH OF THE WATER MAIN OR THOSE UTILITIES

3. THE EXISTING CSA 30 AND CSA 32 WATER DISTRIBUTION SYSTEMS AND SEWER COLLECTION SYSTEMS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS BASED ON INFORMATION PROVIDED BY THE COUNTY OF FRESNO. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY'S REPRESENTATIVE TO IDENTIFY LOCATION OF EXISTING WATER AND SEWER FACILITIES IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING AND PHYSICALLY VERIFYING THE LOCATION AND DEPTH OF WATER AND SEWER

THE DEPTH OF SEWER MAINS SHOWN ARE APPROXIMATE BASED ON FIELD MEASUREMENTS AND FLOW LINES ARE SHOWN ON THE PLANS FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH OF EXISTING SEWER MAINS AT WATER MAIN

5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SEWER SERVICES AND VERIFY ADEQUATE SEPARATION FROM NEW WATER SERVICES (SEE CONSTRUCTION NOTES ON THIS SHEET).

SEE SPECIFICATION APPENDIX FOR WESTLANDS WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS

2. THE CONTRACTOR SHALL FOLLOW ALL WESTLANDS WATER DISTRICT STANDARDS AND SPECIFICATIONS.

3. THE CONTRACTOR SHALL NOTIFY WESTLANDS WATER DISTRICT SEVEN (7) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

4. CONTRACTOR SHALL POTHOLE WESTLANDS WATER DISTRICT UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION TO VERIFY MATERIAL, LOCATION

THE CONTRACTOR SHALL PROVIDE ALL SUBMITTALS FOR MATERIALS THAT ARE USED FOR CONSTRUCTION THAT INVOLVES DISTRICT FACILITIES

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR LEAKS CAUSED BY CONSTRUCTION EFFORTS ON OR AROUND EXISTING WESTLANDS

ALL STATIONING AND STATION & OFFSETS SHOWN ON THE PLANS ARE BASED ON THE PROPOSED CENTERLINE ALIGNMENTS OF THE NEW WATER MAINS.

2. SOME OF THE DESIGNED ANCILLARY FACILITIES SUCH AS COMBINATION AIR VALVES, BLOW-OFFS, AND BACTERIOLOGICAL SAMPLING STATIONS ARE NOT DESIGNED TO BE PLACED AT THE SAME STATION AS THEIR POINT OF CONNECTION TO THE WATER MAIN. THE STATION & OFFSETS LISTED FOR THESE FACILITIES IN THE PLAN VIEW REPRESENT THE INTENDED ACTUAL INSTALLED LOCATIONS OF THESE FACILITIES. THE STATIONS LISTED FOR THESE FACILITIES IN THE PROFILE VIEW REPRESENTS THE INTENDED LOCATION OF THEIR POINT OF 

3. ALL STATIONING AND STATION & OFFSETS SHOWN ON THE PLANS ALONG W. CLARKSON AVENUE ARE BASED ON THE ORIGINAL PROPOSED 8" PIPELINE 





DEPARTMENT OF PUBLIC WORKS AND PLANNING SHEET INDEX & GENERAL NOTES

GENERAL

DRAWING NO. 11305

SHEET NO. G2

ABBREVIATION	S		
AB	AGGREGATE BASE	PT	POINT
AC AGG	ASPHALT CONCRETE, ASBESTOS CONCRETE AGGREGATE	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT
AGG	AHEAD	R	RADIUS
AP	ANGLE POINT	RD	ROAD
APPROX		RE REQD	REFERENCE REQUIRED
APN ARV	ASSESSOR'S PARCEL NUMBER AIR RELIEF VALVE	REV	REVISION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	RGS	RIGID GALVANIZED STEEL
AV	AIR_VALVE	R, RT	RIGHT
AVE AWWA	AVENUE AMERICAN WATER WORKS ASSOCIATION	R/W	RIGHT OF WAY SOUTH, SOLVENT WELD
BK	BACK	(S) S=	SLOPE
BLDG	BUILDING	SCH	SCHEDULE
BM BO	BENCHMARK BLOW–OFF	SD SDMH	STORM DRAIN STORM DRAIN MANHOLE
BOL	BOLLARD	SEC	SECTION
C, CONC	CONCRETE	SERV	SERVICE
CA CAV	CALIFORNIA COMBINATION AIR VALVE	SF SPEC	SQUARE FEET
CFS	CUBIC FEET PER SECOND	SS	SPECIFICATION SANITARY SEWER
C&G	CURB & GUTTER	SS OR STS	STAINLESS STEEL
CHK CHLK	CHECK CHAIN LINK	SSMH STA	SANITARY SEWER MANHOLE STATION
CL	CLASS	STA	STANDARD
<u>ଜ</u>	CENTERLINE	STL	STEEL
CLR	CLEAR, CLEARANCE	STRC	STRUCTURE
CNS CO	COMPACTED NATIVE SOIL SEWER CLEAN OUT	SWL TC	SWALE TOP OF CURB
CON	CONNECTION	T, TEL, TELE	TELEPHONE
CONT		TFC	TOP FACE OF CURB
CONST CP	CONSTRUCT/CONSTRUCTION CONTROL POINT	TH TRFC	THREAD TRAFFIC
CTS	COPPER TUBING SIZE	TYP	TYPICAL
CY	CUBIC YARDS	UG	
	DEMOLISH/DEMOLITION DUCTILE IRON	UP UT	UTILITY POLE UTILITY
DI DIA, Ø	DICTILE IRON DIAMETER	VG	VALLEY GUTTER
DIM	DIMENSION	(W)	WEST
DIP DWG	DUCTILE IRON PIPE	W WM	WATER WATER METER, WATER MAIN
(E)	DRAWING EXISTING, EAST	WS	WATER SERVICE
EA	EACH	WSP	WELDED STEEL PIPE
EG	EXISTING GRADE	W∨ WW	WATER VALVE WASTE WATER
EL, ELEV ELEC	ELEVATION ELECTRICAL	WWD	WESTLANDS WATER DISTRICT
EP, EOP	EDGE OF PAVEMENT	W/	WITH
(F)	FUTURE	W/O	WITHOUT
F&I FG	FURNISH & INSTALL FINISHED GRADE		
FH	FIRE HYDRANT		
卮,FL	FLOW LINE		
FL, FLGD	FLANGED		
FM FT	FORCE MAIN FOOT/FEET		
G	GAS		
GB	GRADE BREAK		
GA GAL	GUAGE GALLON		
GALV	GALVANIZED		
GPM	GALLONS PER MINUTE		
GV HDPE	GATE VALVE HIGH DENSITY POLYETHYLENE		
ID	INSIDE DIAMETER		
IN	INCH		
INV IRR	IN VERT IRRIGATION		
L, LT	LEFT		
LBS	POUNDS		
LF MAX	LINEAL FEET MAXIMUM		
MB	MAILBOX		
MFR			
MH MIN	MANHOLE MINIMUM		
MISC	MISCELLANEOUS		
MJ	MECHANICAL JOINT		
MON (N)	MONUMENT NORTH		
ŇÁVD	NORTH AMERICAN VERTICAL DATUM OF 1988		
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929		
NO NPT	NUMBER NATIONAL PIPE THREAD		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD OSHA	OUTSIDE DIAMETER OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION		
(P)	PROPOSED		
₽, P/L	PROPERTY LINE		
PRV	PRESSURE REDUCING VALVE		
PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH		
I			
<b>I</b>			

	DATE	RECORD DRAWING		SCALE
DESIGNED: JDL	06/30/2020		DATE	
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 – SHEET REFERENCES	09/10/2020	
CHECKED: MWK	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	ETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLAN	NING.	

# LINETYPES

EXISTING	LINETYPE	DESCRIPTION	EXISTING	DESCRIPTION
123		CONTOUR (MAJOR) CONTOUR (MINOR) EMBANKMENT TOE		AGGREGATE
· · · · ·		EMBANKMENT TOP EDGE OF PAVEMENT		AC PAVEMENT
	 	BACK OF CURB TOP OF CURB CURB GUTTER	4 4.4 	CONCRETE
00	oo	FENCE (CHAIN LINK) GRADE BREAK		EARTH
C/C		SWALE CENTERLINE SWALE W/FLOW ARROWS COMPUTER/COMM. (BURIED)		SAND
Е Е FO		ELECTRIC (AERIAL) ELECTRIC (BURIED) FIBER-OPTIC		CEMENT SLURRY
G		GAS IRRIGATION		GRATING
0		OIL SANITARY SEWER SANITARY SEWER FORCE MAIN		CONCRETE REPL
——————————————————————————————————————		SANITARY SEWER LATERAL STORM DRAINAGE		
TTT		TELEPHONE (AERIAL) TELEPHONE (BURIED) TELEVISION (AERIAL LINE)		
	XX" W	TELEVISION (BURIED LINE) WATER		
RAW RAW		WATER SERVICE LINE RAW WATER CENTERLINE		
		EASEMENT PROPERTY LINE		
		RIGHT-OF-WAY SECTION LINE		
		REVISION CLOUD SAWCUT LINE DEMO LINE		

WATEF	R DISTRIBUTION SYSTEM LEGEND	]
ITEM	DESCRIPTION	
(AV)	INSTALL COMBINATION AIR VALVE PER	6 CD-2
BO	INSTALL BLOWOFF PER DETAIL	4 CD-2
BL	INSTALL BOLLARD PER DETAIL	5 CD-6
FH	INSTALL FIRE HYDRANT PER DETAIL	1 CD-2
(ESS)	INSTALL BACTERIOLOGICAL SAMPLING	3 CD-4
F	REMOVE ABANDONED AC WATER MAIN AS NECESSARY AND PLUG BOTH EXPOSED ENDS OF ABANDONED WATER MAIN.	
G	REMOVE CONFLICTING PORTION OF WATER MAIN & MAKE TEMPORARY RECONNECTION TO (E) 6" ACTIVE AC PIPE TO ACCOMMODATE NEW WATER MAIN INSTALLATION	4 CD-6

	WATER SERVICE LEGEND	
ITEM	DESCRIPTION	
A	INSTALL 1" WATER SERVICE, METER & BOX IN LANDSCAPE AREA	5 CD-2 CD-1
B	INSTALL 1" WATER SERVICE, METER & BOX IN SIDEWALK AREA	5 6 CD-2 CD-1
C	INSTALL 3" WATER SERVICE, 2" METER & BOX	7 CD-5
	INSTALL 3" WATER SERVICE, METER & BOX	
E	INSTALL 4" WATER SERVICE, 2" METER & BOX	
$\sum_{n=1}^{\infty} \left( \sum_{i=1}^{n} \left( \sum_{j=1}^{n} \left( \sum_{i=1}^{n} \left( \sum_{j=1}^{n} \left( \sum_{j$	NOTE: WATER METERS NOT INSTALLED AT VAC/	ANT

HATCHES

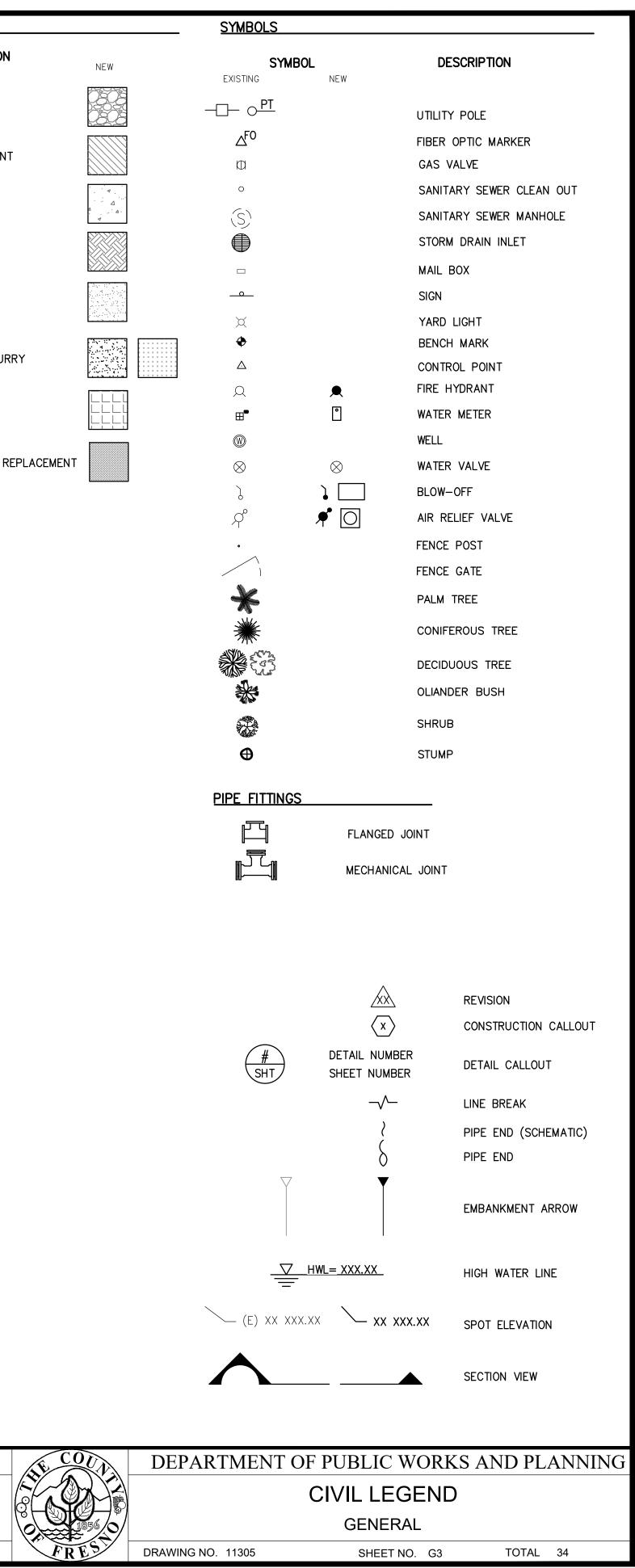


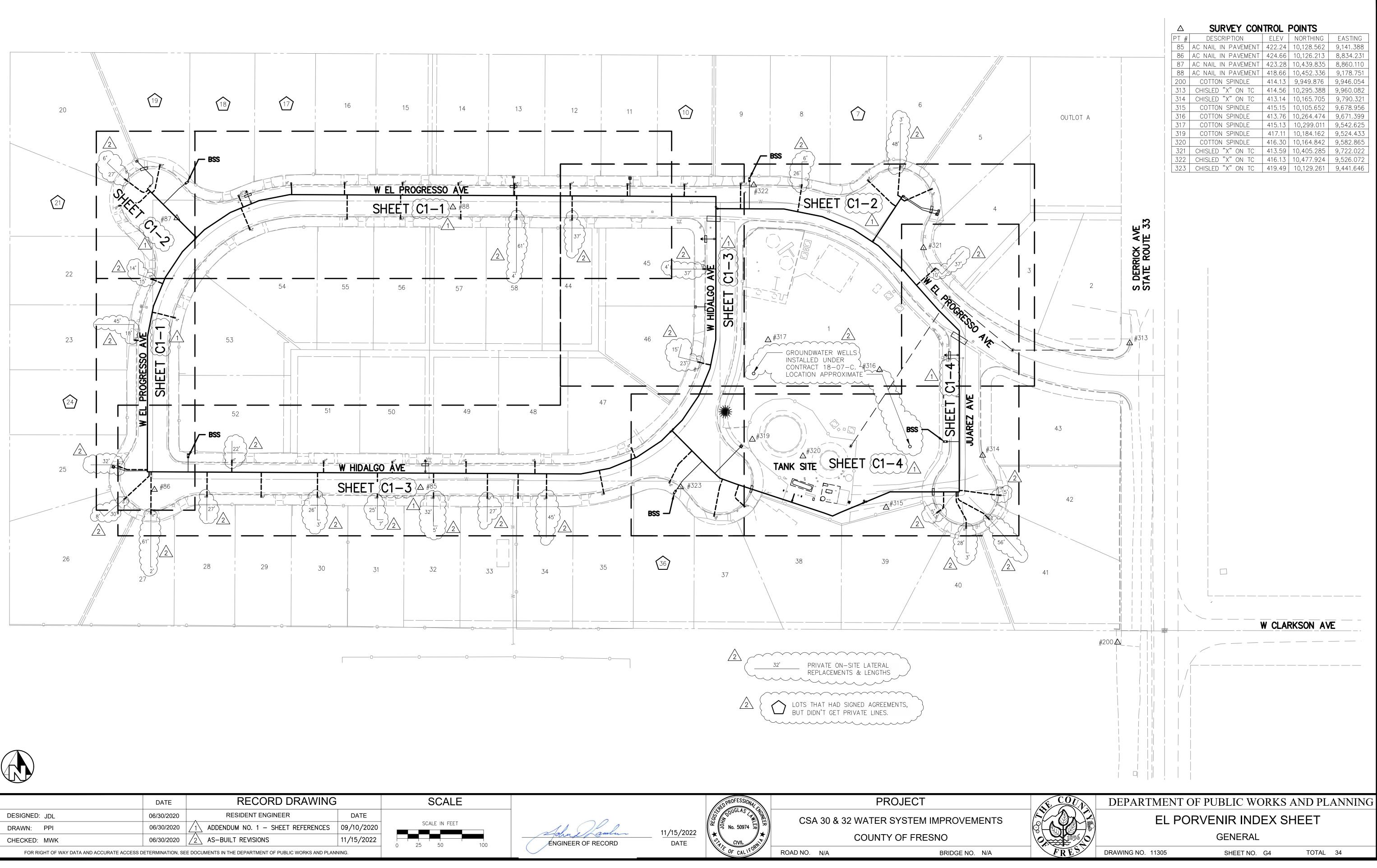
PROJECT

LOTS - SERVICES & EMPTY BOXES ONLY. \_\_\_\_\_

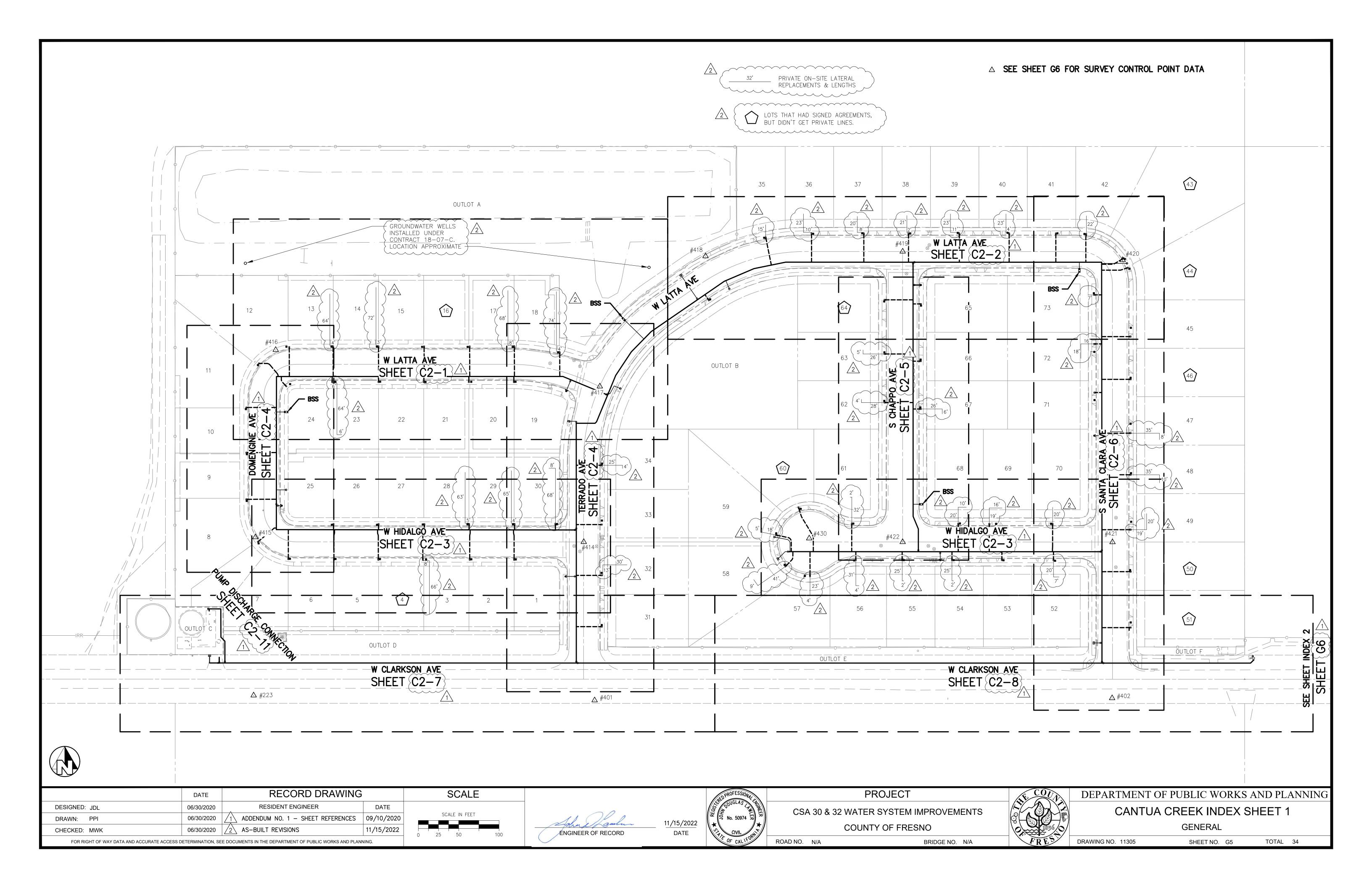
CSA 30 & 32 WATER SYSTEM IMPROVEMENTS COUNTY OF FRESNO

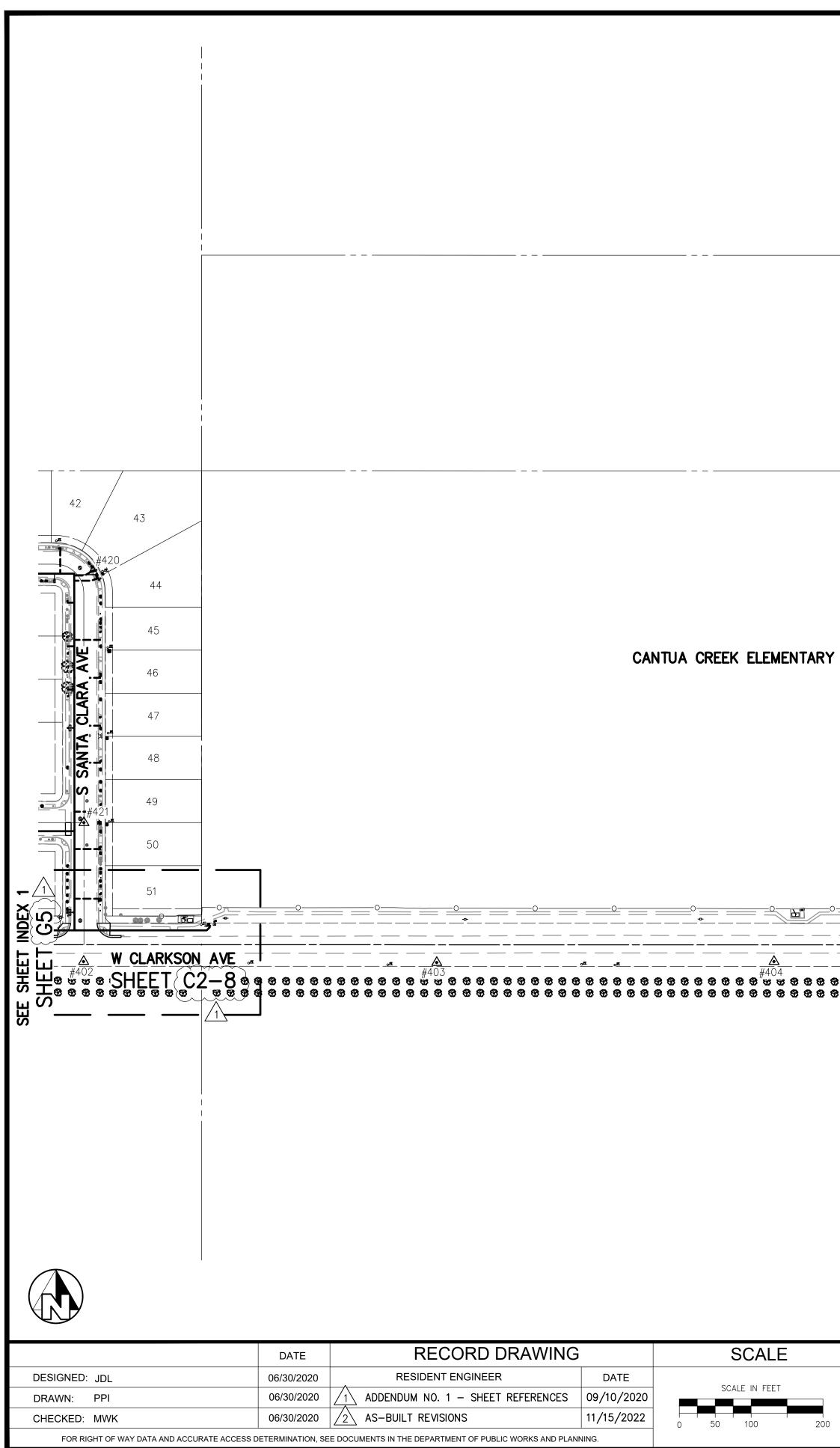
ROAD NO. N/A



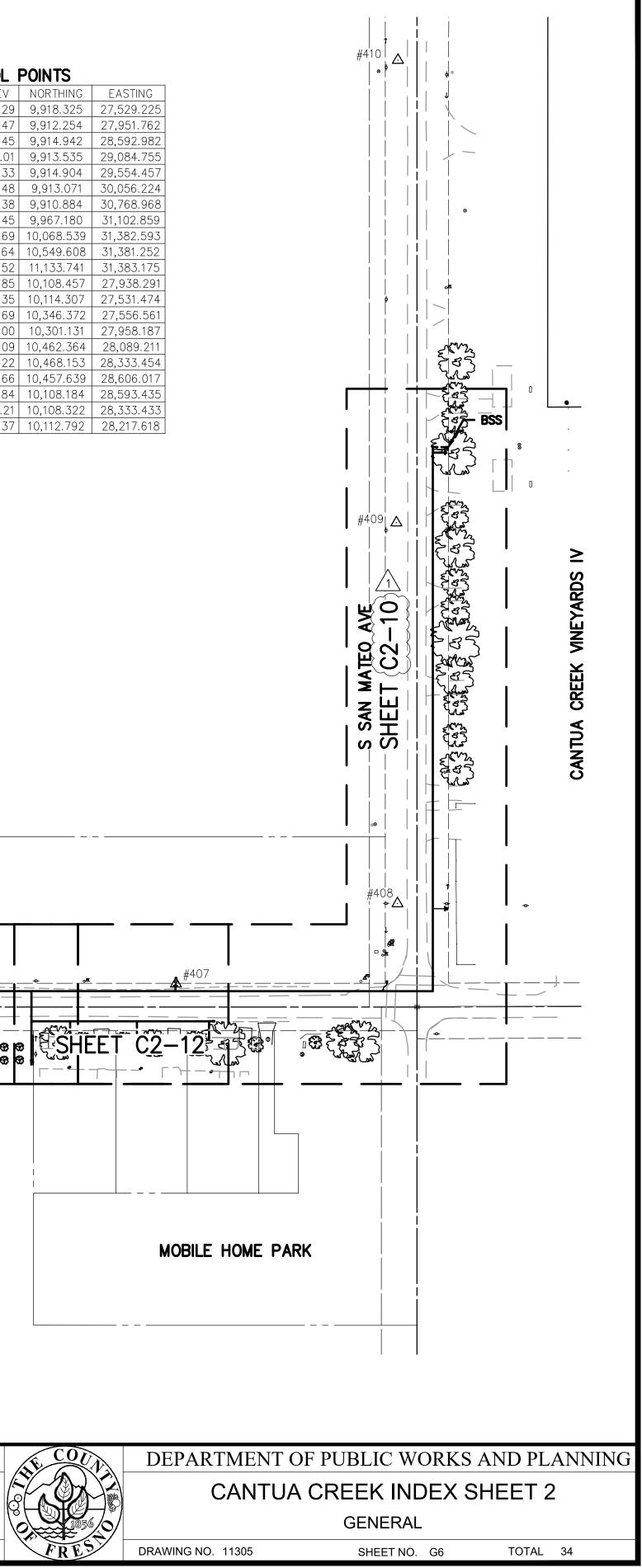


	DATE	RECORD DRAWING	Ì	SCALE
DESIGNED: JDL	06/30/2020		DATE	
DRAWN: PPI	06/30/2020	$\Delta$ ADDENDUM NO. 1 – SHEET REFERENCES	09/10/2020	SCALE IN FEET
CHECKED: MWK	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022	0 25 50 100
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				





							▲     PT #     223     401	SURVEYCONDESCRIPTIONREBARWITHREBARWITHCAP	ELEV 300.29 298.47
							402 403 404 405	REBAR WITH CAP REBAR WITH CAP REBAR WITH CAP REBAR WITH CAP	297.45 296.01 295.33 294.48
							406 407 408 409 410	REBAR WITH CAP REBAR WITH CAP REBAR WITH CAP REBAR WITH CAP	293.38 292.45 290.69 289.64 288.52
							410 414 415 416 417	REBAR WITH CAP BRASS CAP & MON. CHISLED "X" ON TC CHISLED "X" ON TC BRASS CAP & MON.	288.52 299.85 300.35 299.69 299.00
							418 419 420 421	CHISLED "X" ON TC BRASS CAP € MON. CHISLED "X" ON TC BRASS CAP € MON.	298.09 298.22 298.66 298.84
							422	BRASS CAP & MON. CHISLED "X" ON MH RIM	299.21
Y SCHOOL									
_0q				®`∰ <b>@</b> ∰`					
						CLARKSON AVE			
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	88888 8888 8888 8888 8888 8888 8888 8888	888888 888888 888888				IILLI ( UZ — 3 9 8 8 8 8 8 8 8 8 8 8 —— —— —			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
				State OPROFESSIONAL FIELD	CCV 20	PRO			
0	Adm ENGINEE	R OF RECORD	11/15/202 DATE	2 CIVIL	ROAD NO. N/A	& 32 WATER SY COUNTY O	F FRESN		
				VIL					



# CSA 30 - EL PORVENIR

#### CSA 30 - El Porvenir Subdivision Water Distribution System

Water Distribution System						
Pipeline		Coordi	nates			
Station	Description	North East				
	El Progresso Avenue (West)					
10+00.00	6" 90° Bend (Hidalgo)	10,146.86	8,826.09			
	N 00° 03' 46" E 156.28'					
11+56.28	6" 11¼° Bend	10,303.14	8,826.26			
	N 11° 09' 17" E 35.75'					
11+92.03	6" 11¼° Bend	10,338.21	8,833.18			
	N 22° 24' 17" E 35.75'					
12+27.78	6" 11¼° Bend	10,371.26	8,846.80			
	N 33° 39' 17" E 35.75'					
12+63.53	6" 11¼° Bend	10,401.02	8,866.62			
	N 45° 00' 19" E 22.85'					
12+86.38	6"x4" Tee (West Knuckle)	10,417.18	8,882.77			
	N 45° 00' 19" E 12.90'					
12+99.28	6" 11¼° Bend	10,426.30	8,891.90			
	N 56° 21' 18" E 35.96'					
13+35.24	6" 11¼° Bend	10,446.22	8,921.83			
	N 67° 36' 21" E 36.00'					
13+71.24	6" 11¼° Bend	10,459.94	8,955.12			
	N 78° 51' 21" E 36.00'					
14+07.24	6" 11¼° Bend	10,466.89	8,990.44			
	S 89° 44' 14" E 492.00'					
18+99.24	6" 90° Bend (Hidalgo)	10,464.64	9,482.44			

Westerly Knuckle						
1+00.00	6"x6"x4" Tee (El Progresso)	10,417.18	8,882.77			
	N 44° 59 41" W 80.00'	-				
1+80.00	End (B.O.)	10,473.75	8,826.21			

El Progresso Avenue (East)					
20+00.00	6"x6"x6" Tee (Hidalgo) 10,450.64 9,48				
	S 89° 44' 14" E 78.50'				
20+78.50	6" 11¼° Bend	10,450.28	9,560.92		
	S 78° 44' 14" E 45.10'	•			
21+23.60	6" 11¼° Bend	10,441.47	9,605.15		
	S 67° 44' 14" E 38.90'	•			
21+62.50	6" 11¼° Bend	10,426.73	9,641.15		
	S 56° 44' 14" E 26.30'	•			
21+88.80	6"x4" Tee (East Knuckle)	10,412.31	9,663.14		
-	S 56° 44' 14" E 8.30'	•			
21+97.10	6" 11¼° Bend	10,407.76	9,670.08		
-	S 45° 14' 14" E 40.00'				
22+37.10	Angle Point	10,379.59	9,698.48		
	S 41° 36' 18" E 61.43'				
22+98.53	Angle Point	10,333.66	9,739.27		
	S 45° 00' 14" E 34.00'				
23+32.53	6" 45° Bend (Juarez)	10,309.62	9,763.32		

Easterly Knuckle						
2+00.00	6"x6"x4" Tee (El Progresso)	10,412.31	9,663.14			
	N 33° 15' 46" E 64.00'					
2+64.00	End (B.O.)	10,465.82	9,698.25			

### CSA 30 - El Porvenir Subdivision

Water Distribution System					
	Coordinates				
Description	North East				
Hidalgo Avenue					
6" 90° Bend (El Progresso)	10,146.86	8,826.09			
S 89° 43' 14" E 500.30'					
6" 11¼° Bend	10,144.42	9,326.38			
N 79° 00' 08" E 34.00'					
6" 11¼° Bend	10,150.90	9,359.76			
N 67° 43' 31" E 34.00'					
6" 11¼° Bend	10,163.79	9,391.22			
N 56° 26' 53" E 33.90'					
6" 11¼° Bend	10,182.53	9,419.47			
N 45° 10' 16" E 17.00'					
6"x6" Tee (to Tank Site)	10,194.51	9,431.53			
N 45° 10' 16" E 17.00'					
6" 11¼° Bend	10,206.50	9,443.59			
N 33° 56' 40" E 33.95'					
6" 11¼° Bend	10,234.66	9,462.54			
N 22° 33' 49" E 33.95'					
6" 11¼° Bend	10,266.01	9,475.57			
N 11° 20' 23" E 33.99'					
6" 11¼° Bend	10,299.34	9,482.26			
N 00° 03' 46" E 151.30'		•			
6"x6" Tee (El Progresso)	10,450.64	9,482.42			
N 00° 03' 46" E 14.00'					
6" 90° Bend (El Progresso)	10,464.64	9,482.44			
	Description           Hidalgo Avenue           6" 90° Bend (El Progresso)           S 89° 43' 14" E 500.30'           6" 11¼° Bend           N 79° 00' 08" E 34.00'           6" 11¼° Bend           N 67° 43' 31" E 34.00'           6" 11¼° Bend           N 67° 43' 31" E 34.00'           6" 11¼° Bend           N 56° 26' 53" E 33.90'           6" 11¼° Bend           N 45° 10' 16" E 17.00'           6" x6" Tee (to Tank Site)           N 45° 10' 16" E 17.00'           6" 11¼° Bend           N 33° 56' 40" E 33.95'           6" 11¼° Bend           N 32° 56' 40" E 33.95'           6" 11¼° Bend           N 22° 33' 49" E 33.95'           6" 11¼° Bend           N 11° 20' 23" E 33.99'           6" 11¼° Bend           N 00° 03' 46" E 151.30'           6"x6" Tee (El Progresso)           N 00° 03' 46" E 14.00'	Coordi           Description         North           Hidalgo Avenue         North           6" 90° Bend (El Progresso)         10,146.86           S 89° 43' 14" E 500.30'         10,144.42           N 79° 00' 08" E 34.00'         10,150.90           N 67° 43' 31" E 34.00'         10,163.79           N 67° 43' 31" E 34.00'         10,163.79           N 56° 26' 53" E 33.90'         10,182.53           N 45° 10' 16" E 17.00'         10,194.51           N 45° 10' 16" E 17.00'         10,194.51           N 45° 10' 16" E 17.00'         10,206.50           N 33° 56' 40" E 33.95'         10,234.66           N 22° 33' 49" E 33.95'         10,266.01           N 11° 20' 23" E 33.99'         10,209.34           N 00° 03' 46" E 151.30'         10,450.64           N 00° 03' 46" E 144.00'         10,450.64			

### CSA 30 - El Porvenir Subdivision Water Distribution System

Pipeline			Coordinates				
Station	Des	scription	North	East			
ŀ	Hidalgo Avenue Knuckle to Juarez Avenue Cul-de-Sac						
40+00.00	6"x6" T	ee (Hidalgo)	10,194.51	9,431.53			
	S 44° 49' 44" E	58.00'					
40+58.00	An	gle Point	10,153.38	9,472.42			
	S 46° 10' 59" E	19.85'					
40+77.85	6" 2	2½° Bend	10,139.63	9,486.74			
	S 70° 14' 28" E	19.85'					
40+97.70	An	gle Point	10,132.92	9,505.42			
	S 71° 45' 55" E	67.80'					
41+65.50	6"x6" Te	e (Tank Con.)	10,111.71	9,569.82			
	S 71° 45' 55" E	39.59'					
42+05.09	An	gle Point	10,099.32	9,607.42			
	S 69° 48' 17" E	10.16'					
42+15.25	6" 4	45° Bend	10,095.81	9,616.96			
	N 65° 33' 12" E	10.26'					
42+25.51	Ang	gle Point	10,100.06	9,626.30			
	N 67° 30' 00" E	30.15'					
42+55.66	6"x6" Tee	e (Future Con.)	10,111.60	9,654.15			
	N 67° 30' 00" E	31.77'					
42+87.43	6" 22	2½° Bend	10,123.75	9,683.50			
	N 90° 00' 00" E	79.83'					
43+67.26	6" 90° E	Bend (Juarez)	10,123.75	9,763.33			

# CSA 30 - El Porvenir Subdivision

Water Distribution System							
Pipeline	peline Coordinate						
Station	Description	North	East				
	Juarez Avenue						
49+90.02	6" 90° Bend (to Tank Site)	10,123.75	9,763.				
	N 00° 00' 14" W 185.86'						
51+75.88	6" 45° Bend (El Progresso)	10,309.62	9,763.				

	DATE	RECORD DRAWING	Ì	SCALE
DESIGNED: JDL	06/30/2020		DATE	
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 – SHEET REFERENCES	09/10/2020	
CHECKED: MWK	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				

ast 3.33 3.32

#### CSA 32 - Cantua Creek Water Distribution Sw

Water Distribution System				
Pipeline		Coordinates		
Station	Description	North	East	
	Latta Avenue (West)			
60+00.00	6" 90° Bend (Domengine)	10,313.34	27,557.56	
	N 89° 59' 19" E 354.81'			
63+54.81	6" 22.5° Bend	10,313.41	27,912.37	
	S 67° 29' 25" E 60.06'			
64+14.87	6"x6" Tee (Terrado)	10,290.41	27,967.86	

#### CSA 32 - Cantua Creek Water Distribution System

Pipeline		Coord	Coordinates		
Station	Description	North	East		
	Latta Avenue (East	)			
64+88.05	6"x6" Tee (Terrado)	10,290.41	27,967.86		
	N 22° 29' 19" E 26.35'	•			
65+14.40	6" 11¼° Bend	10,314.77	27,977.94		
	N 33° 29' 00" E 35.00'				
65+49.40	6" 11¼° Bend	10,343.96	27,997.25		
N 44° 27' 57" E 35.00'					
65+84.40	6" 11¼° Bend	10,368.94	28,021.77		
N 55° 27' 57" E 110.08'					
66+94.48	6" 11¼° Bend	10,431.34	28,112.45		
	N 66° 57' 57" E 40.00'				
67+34.48	6" 11¼° Bend	10,446.99	28,149.26		
	N 78° 30' 18" E 40.00'				
67+74.48	6" 11¼° Bend	10,454.96	28,188.46		
S 89° 59' 42" E 157.84'					
69+32.32	6"x6" Tee (Chappo)	10,454.95	28,346.30		
	S 89° 59' 42" E 233.66'				
71+65.98	6" 90° Bend (Santa Clara)	10,454.92	28,579.96		

### CSA 302 - Cantua Creek

Water Distribution System				
Pipeline		Coord	linates	
Station	Description	North	East	
	Hidalgo Avenue (West	)		
73+00.00	6" 90° Bend (Domengine)	10,123.65	27,557.41	
	S 89° 56' 40" E 371.63'			
76+71.63	8"x6" Tee (Terrado)	10,123.29	27,929.04	

Hidalgo Avenue (East)				
78+00.00	End (B.O.)	10,096.42	28,192.86	
	S 89° 59' 26" E 160.05'			
79+60.05	6"x6" Tee (Chappo)	10,096.40	28,352.91	
	S 89° 59' 26" E 227.45'			
81+87.50	8"x6" Tee (Santa Clara)	10,096.36	28,580.38	

Water Distribution System					
Pipeline		Coordinates			
Station	Description	North East			
Domengine Avenue					
83+00.00	6" 90° Bend (Hidalgo)	10,123.65	27,557.41		
N 00° 02' 46" W 189.69'					
84+89.69	6" 90° Bend (Latta)	10,313.34	27,557.56		

#### CSA 32 - Cantua Creek Water Distribution System Pipeline Coo Description North Station Terrado Avenue 86+00.00 8"x8" Tee (Clarkson) 9,958.47 N 00° 01' 00" W 164.82' 8"x6" Tee (Hidalgo) 87+64.82 10,123.29 N 00° 01' 00" W 132.10' 88+96.92 6"x6" Tee (B.O.) 10,255.39 N 89° 59' 00" E 23.28' 89+20.20 6" 45° Bend 10,255.39 N 44° 59' 00" E 2.62' 10,257.25 89+22.82 6" 22.5° Bend

6"x6" Tee (Latta)

N 22° 28' 46" E 35.90'

89+58.72

CSA 32 - Cantua Creek Water Distribution System		
Chappo Avenue		
6"x6" Tee (Hidalgo)	10,096.4	
N 00° 01' 00" W 28.00'		
6" 221⁄2° Bend	10,124.4	
N 22° 31' 00" W 17.00'		
6" 221⁄2° Bend	10,140.1	
N 00° 01' 00" W 314.84'		
6"x6" Tee (Latta)	10,454.9	
	Water Distribution Syst           Description           Chappo Avenue           6"x6" Tee (Hidalgo)           N 00° 01' 00" W 28.00'           6" 22½° Bend           N 22° 31' 00" W 17.00'           6" 22½° Bend           N 00° 01' 00" W 314.84'	

		CSA 32 - Cantua Creek Water Distribution System		
	Pipeline		Co	
	Station	Description	North	
$\wedge$	~~~~~~	Santa Clara Avenue	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
2	/94+00.00/	////8"x8" Tee (Clarkson)	9,958.36	
7	I	N 00° 00' 33" E{ 138.00′ 175.08' }		
	95+38.00	8"x6" Tee (Hidalgo)	10,096.30	
		N 00° 00' 33" E 17.11'		
	95+55.11	Angle Point	10,113.4 <sup>-</sup>	
	٦	N 00° 04' 06" W 341.45'		
	98+96.56	6" 90° Bend (Latta)	10,454.92	

0-0-0	
~ ~ ~ ~	AS-BUILT REVISIONS
85+63.56±	<b>Terrado Avenue</b> 8"90° Bend (Clarkson)
93+62.92±	<b>Santa Clara Avenue</b> 8"x8" Tee (Clarkson)
104+42.40±	<b>Clarkson Avenue</b> 36.44'(S) 8"90° Bend (Terrado)
110+93.65±	37.08'(S) 8"x8" Tee (Santa Clara)
112+82.53±	36.87'(S) 8"90° Bend 0.00'8"45° Bend
125+79.66±	0.00' 8"x8" Tee (School Service) 12.00'(N) 6"x6" TEE (Fire Hydrant) 34.25'(S) 8" 90° Bend
134+41.10±	36.50'(S) 8"x4" Tee (Mobile Home Park
139+47.87±	37.07'(S) 8"90° Bend (San Mateo)
139+10.80±	<b>San Mateo Avenue</b> 8"90° Bend (Clarkson)

 $\frown \frown \frown \frown \frown$ SEE SHEET NO. G2 FOR BASIS OF BEARINGS AND COORDINATES.

11/15/2022 DATE ENGINEER OF RECORD



PROJECT CSA 30 & 32 WATER SYSTEM IMPROVEMENTS COUNTY OF FRESNO

ROAD NO. N/A

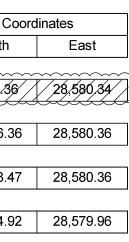
BRIDGE NO. N/A

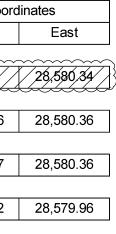
em		
Coord	linates	
North	East	
9,958.47	27,929.09	
10,123.29	27,929.04	
10,255.39	27,929.00	
10,255.39	27,952.29	
10,257.25	27,954.14	
10,290.41	27,967.86	

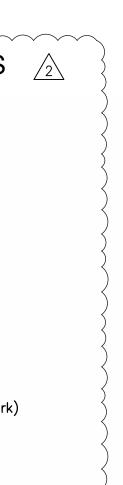
ord	ordinates		
	East		
0	28,352.91		
0	28,352.90		
0	28,346.39		
5	28,346.30		

		•	
	Water Distribution Syste		
Pipeline			dinates
Station	Description	North	East
	Clarkson Avenue		
100+00.00	8"x8" Tee (Tank Site)	9,958.54	27,486.69
	S 89° 59' 26" E 7.00'		
100+07.00	8"x8" Tee (Pump Connect)	9,958.54	27,493.69
	S 89° 59' 26" E 435.40'		
104+42.40	8"x8" Tee (Terrado)	9,958.47	27,929.09
	S 89° 59' 26" E 651.25'		
110+93.65	/////8"x8"Tee (Santa Clara)///	9,958.36	28,580,34
	S 89° 59' 26" E 184.11'		
112+77.78	8"45 Bend	8,958.33	28,764,45
·····	N 45° 00' 29" E_6.00'	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
112+83.76	Connect to (E) 8" Water	8,962.57	28,768.69
/123498.79	/(E) 8"x6"/Tee-Install FH	9,956.13	/29,877.66
125+80.41	Connect to (E) 8" Water	9,956.10	/30,060.47
	/\$_89°,59′,23"/€/ ⊁.75′//////		
/125+82,16/	8" 45° Bend	9,956,10	/30,062.22
	₩45,00,37", ₣ 2,83		
125+84.99	8",45" Bend	9,958.10	/30,064.22
	\$ 89° 59' 23" E 856.11'		
134+41.10	8"x4"/Tee (Clarkson-South)	8,957.94	/ 30,920,33
	\$ 89, 59 23" E 506.77		
/139+47.87/	8",90° Bend (San Mateo)	9,957.85	31,427.10
	Clarkson Avenue (South)		
234+03.10	//////////////////////////////////////	9,957.94	/30,920.33
	\$ 00, 00, 31, W/38,00		
/2,34+41,10/	4"x4" Tee	9,919,94	/30,920.33
	\$,89'59'23"E/230,00'		
236471.10	End (B.O.)	9,919.90	/31,150.33

CSA 32 - Cantua Creek







CSA 32 - Cantua Creek Water Distribution System

	Pipeline		Coord	inates	1				
	Station	Description	North	East					
^ ~	San Mateo Avenue								
<u>2\</u> {/	/139447,87/	//8"90° Bend (Clarkson)	9,957.85	/31,427.10/	V				
Ŭ	N	00° 00' 03" E 687.88'							
	146+35.75	End (Blind Flange)	10,645.73	31,427.11	]				

### CSA 32 - Cantua Creek Water Distribution System

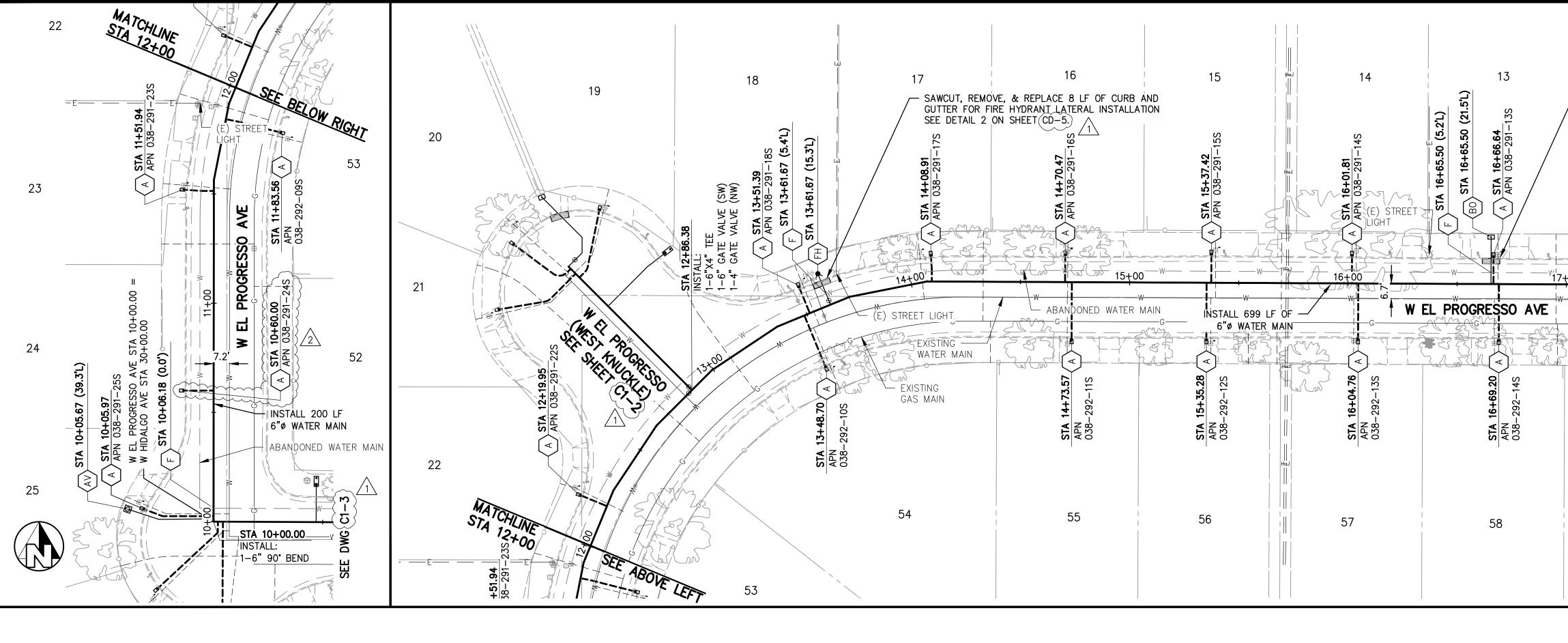
Pipeline		Coord	linates			
Station	Description	North East				
Pump Discharge Connection						
4+14.98	End (Blind Flange)	10,025.49	27,472.58			
	N 89° 59' 32" E 1.71'					
4+16.69	8"x6" Vert. Tee & Riser	10,025.49	27,474.29			
	N 89° 59' 32" E 14.30'					
4+30.99	8" 90° Bend	10,025.49	27,488.59			
	S 00° 13' 35" E 35.00'					
4+65.99	8" 45° Bend	9,990.49	27,488.72			
	S 45° 06' 31" E 7.01'					
4+73.00	8" 45° Bend	9,985.54	27,493.69			
	S 00° 00' 34" W 27.00'					
5+00.00	8"x8" Tee (Clarkson)	9,958.54	27,493.69			

COU FRESS

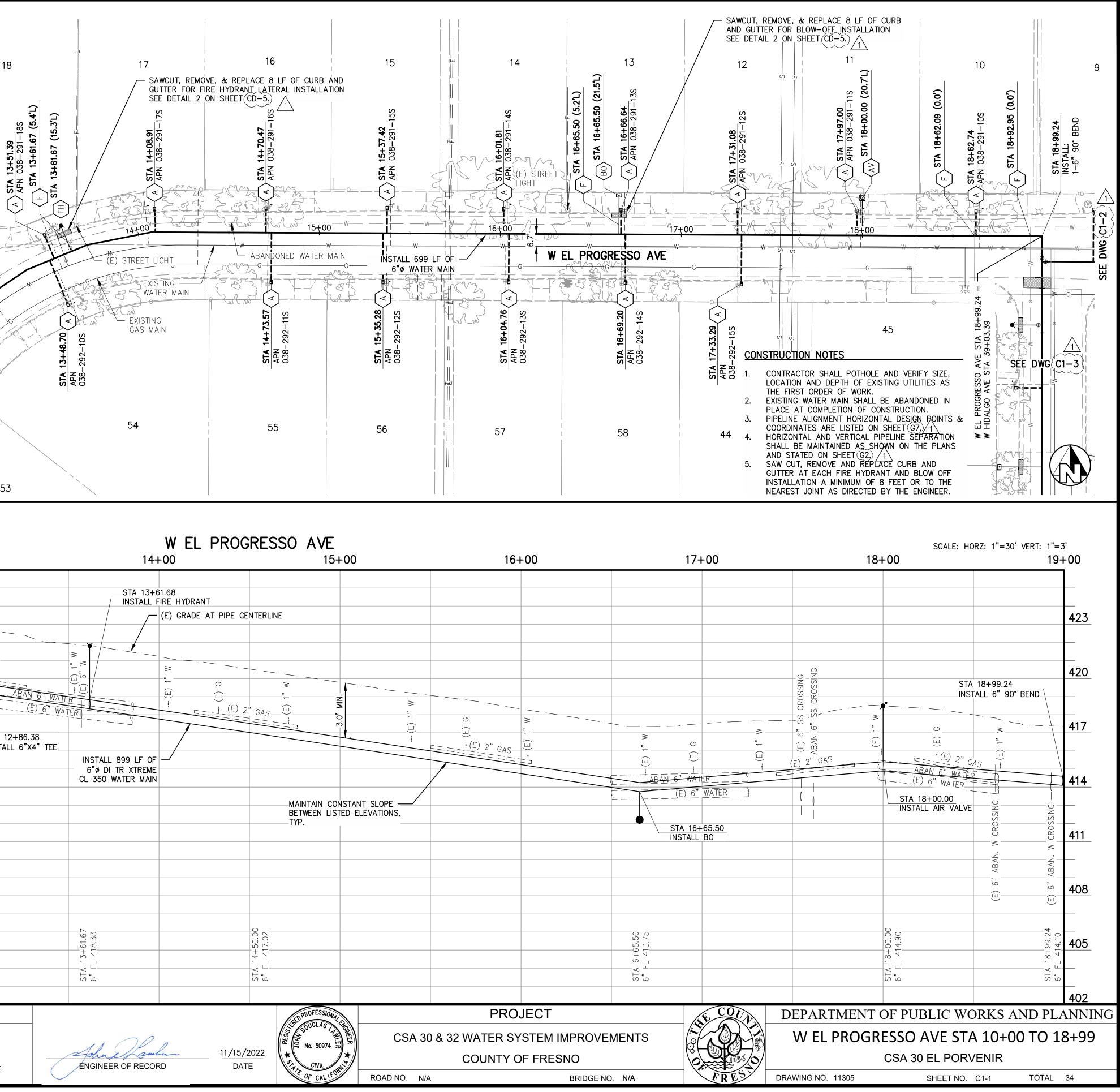
DEPARTMENT OF PUBLIC WORKS AND PLANNING HORIZONTAL CONTROL PLAN

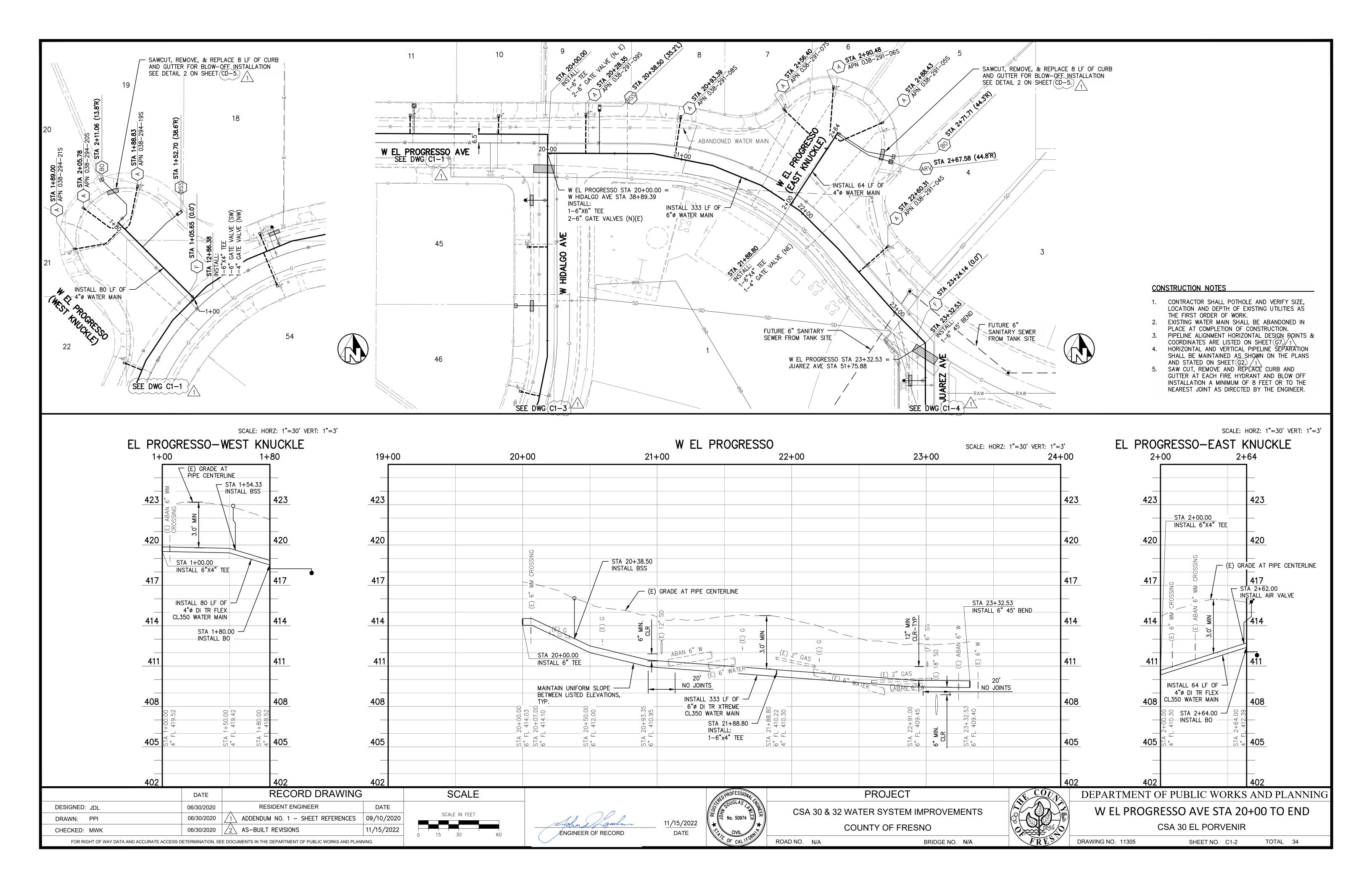
GENERAL

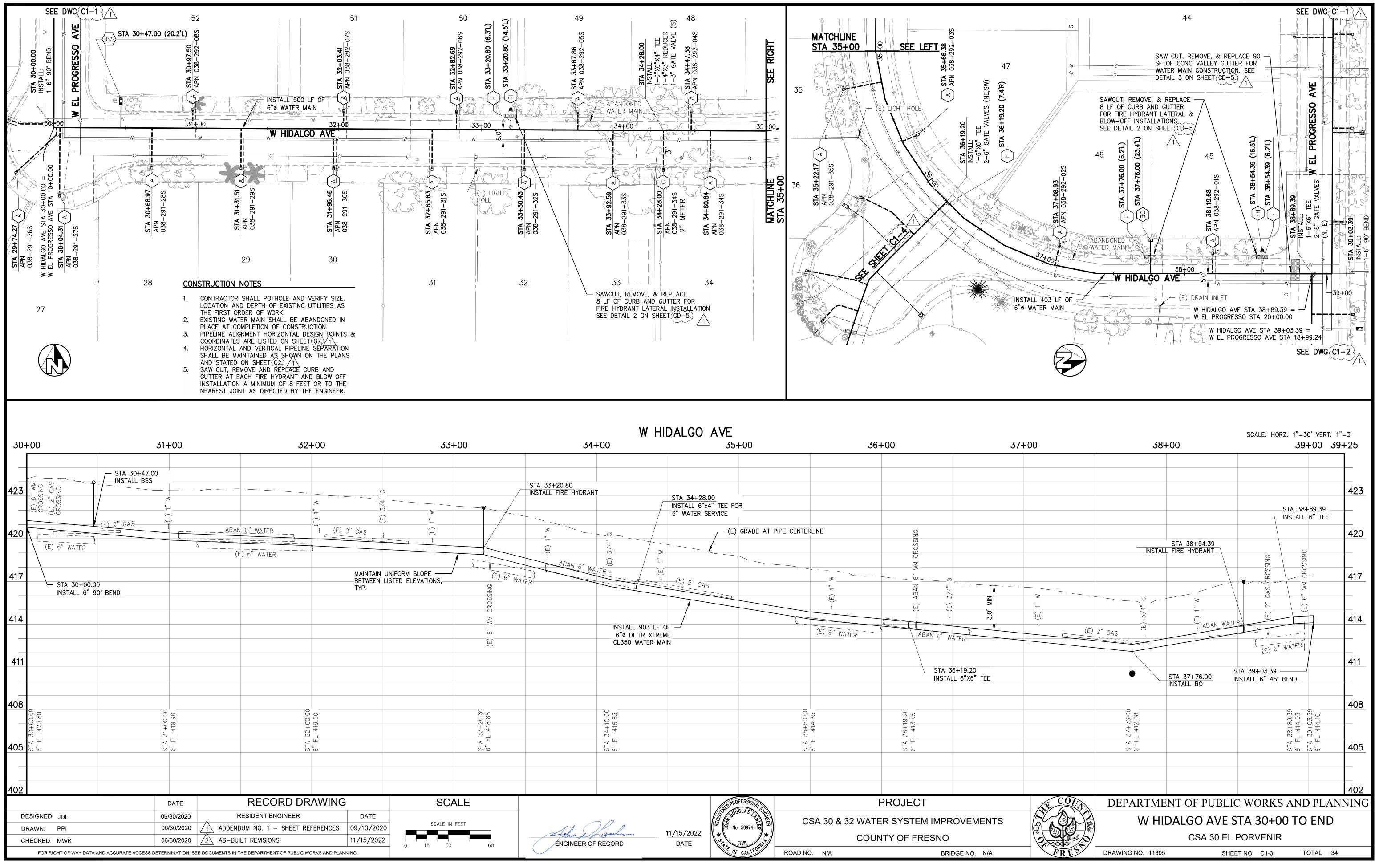
DRAWING NO. 11305 SHEET NO. G7 TOTAL 34



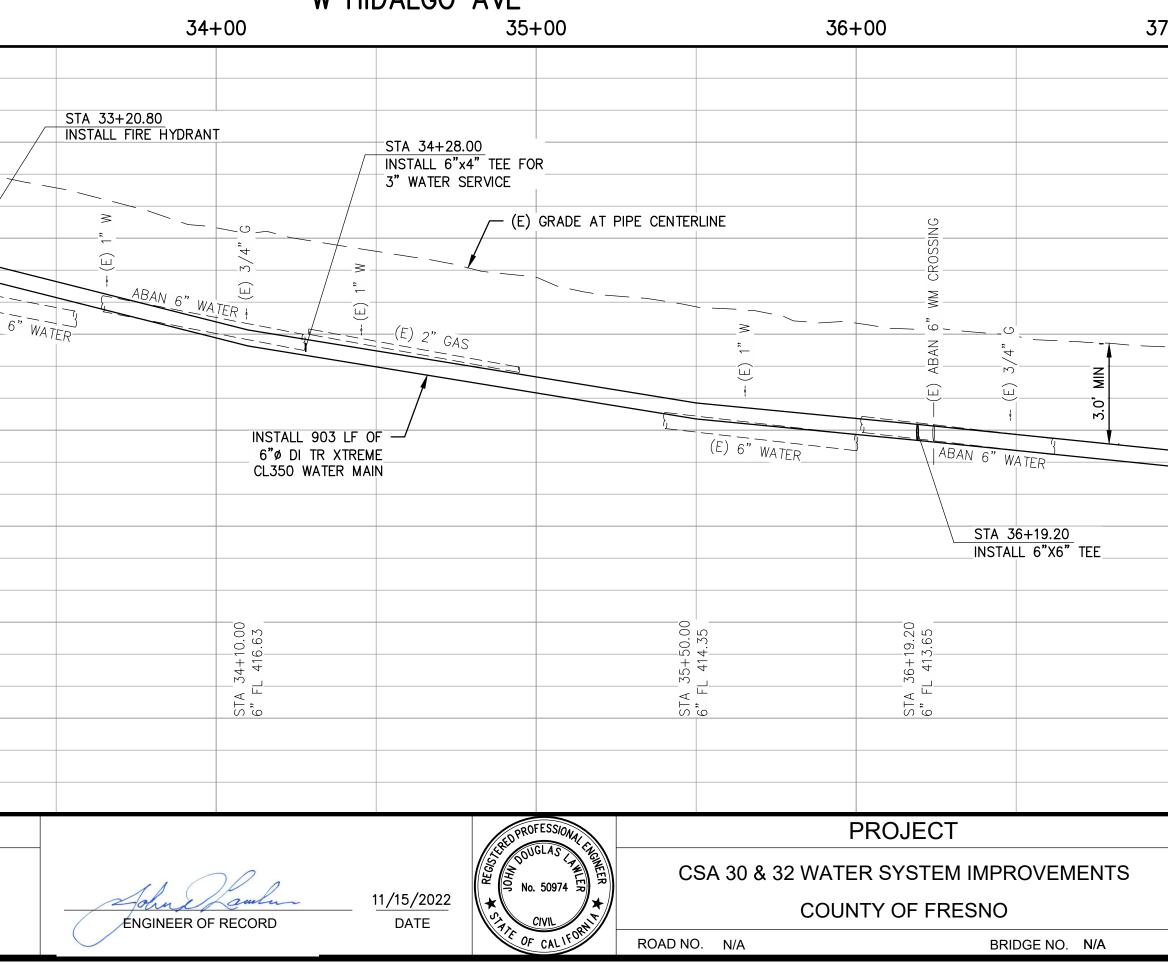
10+00	11+0	00	12+00	)	13+00
423 (E) 2" GAS 420 420 420		E C C C C C C C C C C C C C C C C C C C	(E) 2" GAS +		<b>3.0' MIN.</b> (E) G (E) 2" W (E) 2" W
417 C STA 10+01.25 INSTALL AIR VALV	E	<u>{ (E) 6</u> " WA	<u>TER _ }</u>		
	BEND				STA INSTA
414 "9 (3)					
411					
408					
10+50.00 1 420.29 1 420.29			11+92.03 L 419.97		L 419.52
402			STA 11- 6" FL 2		STA 12. 6 FL 2 4 " FL 2
- •	DATE	RECO	RD DRAWING	6	SCALE
ESIGNED: JDL	06/30/2020	RESIDENT EN		DATE	
RAWN: PPI	06/30/2020	ADDENDUM NO. 1 -	SHEET REFERENCES	09/10/2020	SCALE IN FEET
HECKED: MWK	06/30/2020	AS-BUILT REVISION	S	11/15/2022	0 15 30 60

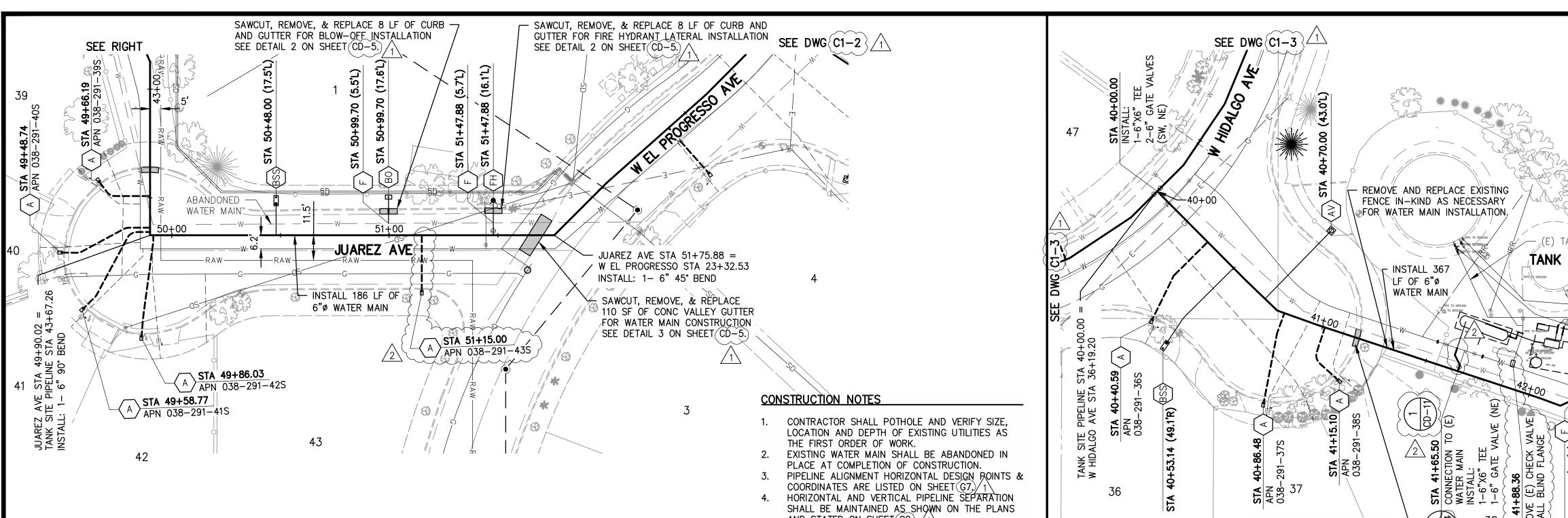


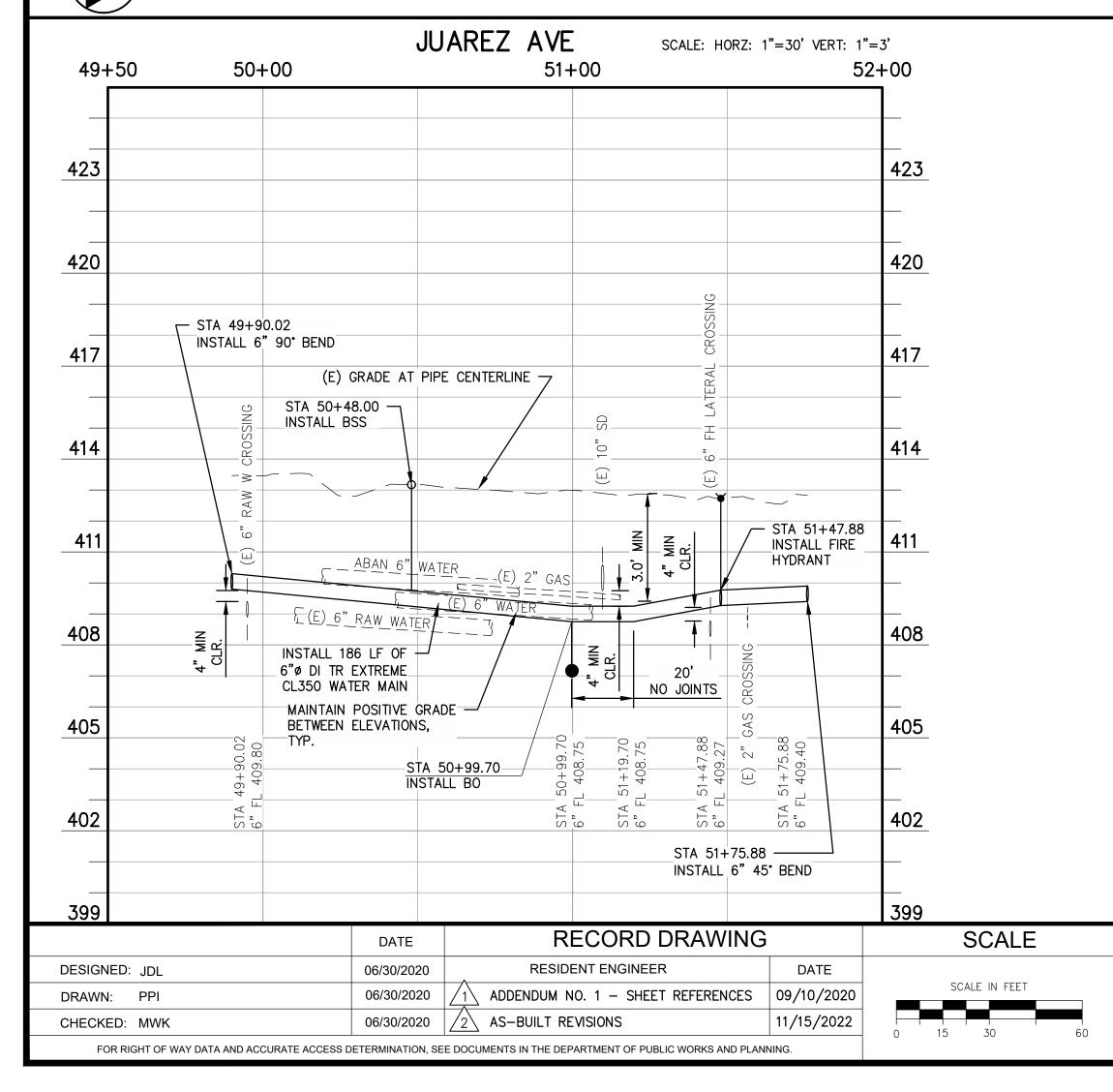




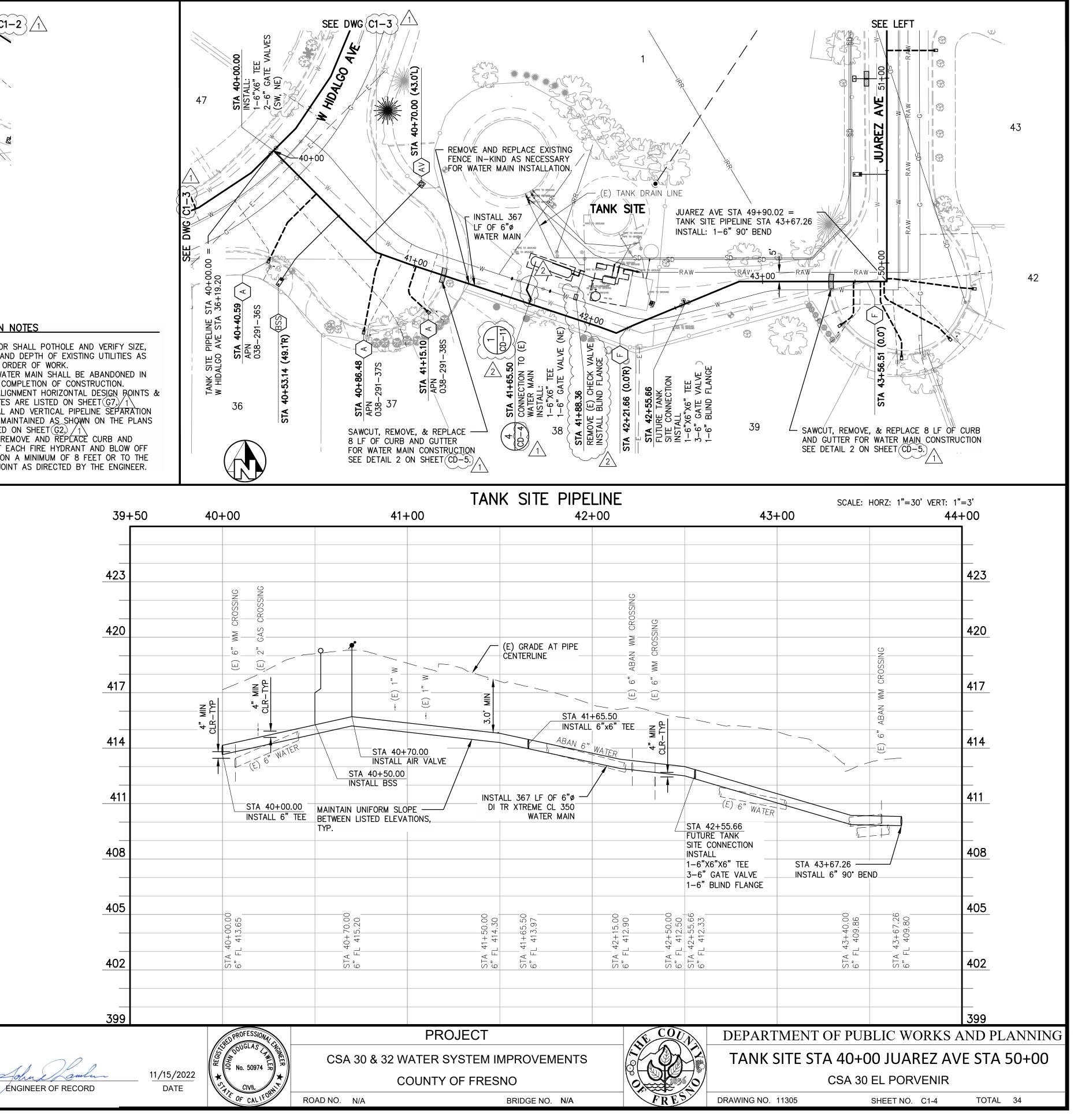
00	100	01	100		02100		00	100
		STA 30+47.00						
423	WM ING GAS GAS		<u> </u>			(	)	
120	(E) 6" wm CROSSING (E) 2" GAS CROSSING		>			"~	+	
	CRC CRC		"			K	≥	— <u> </u>
		<u>-(E)</u> 2" GAS			E E	(F)	*	
420			<u>}</u>	<u>ABAN_6"_WATER</u>		2" GAS	- (E)	
	$\left( \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$							
				(E) 6" WATER				
							UNIFORM SLOPE	
417	STA 30+00.00					BETWEEN	LISTED ELEVATIONS,	(E
	INSTALL 6" 90	• BEND				TYP.		CROSSING
								SOS
414								6, WM
								(E) 6
								<u> </u>
411								
408	0				O			
	30+00.00 - 420.80		419.90		9.50			33+20.80 L 418.88
	42(	С С Ч Ч	- <del>-</del>		32+00.0			53+53 418
405		<	∡ LL		STA 3 6" FL			STA 3 6" FL
405	57, 6				<u> </u>			o <sup>*</sup> N'
402								
			DATE	RECORD	DRAWING	3	SC	ALE
D	ESIGNED: JDL	0	6/30/2020	RESIDENT ENGINE		DATE		
	RAWN: PPI		6/30/2020	1 ADDENDUM NO. 1 – SHI		09/10/202	O SCALE IN	FEET
	HECKED: MWK		6/30/2020	2 AS-BUILT REVISIONS		11/15/2022		
		0					0 15 30	60

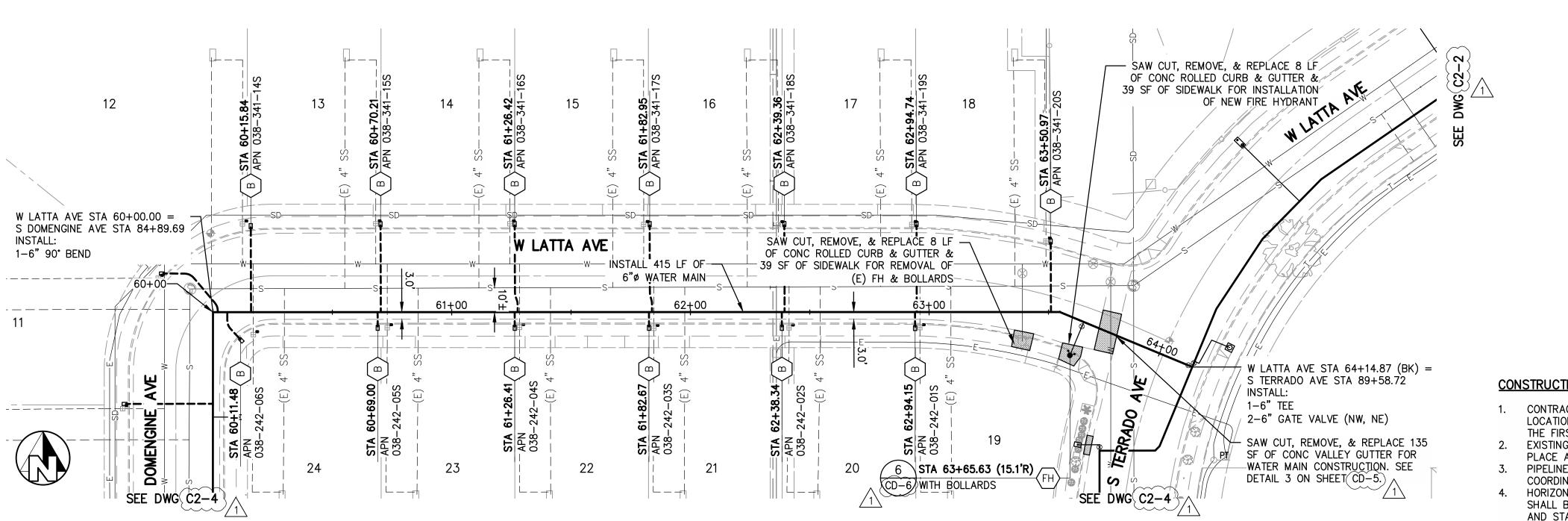


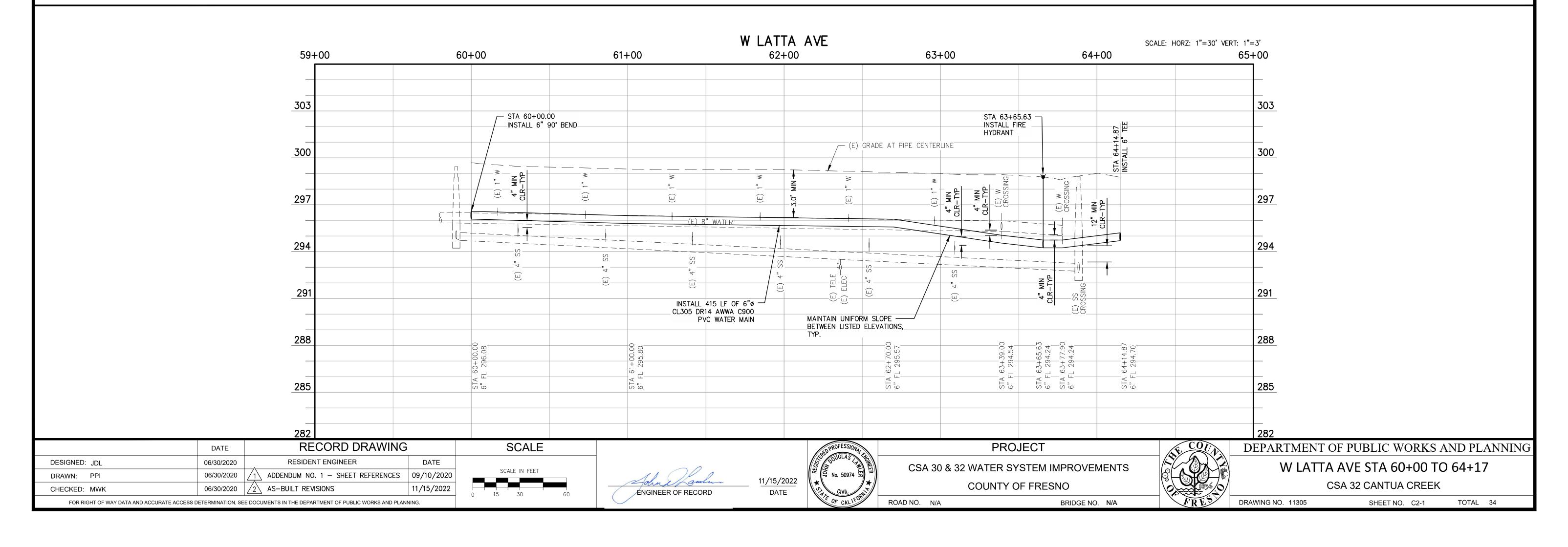




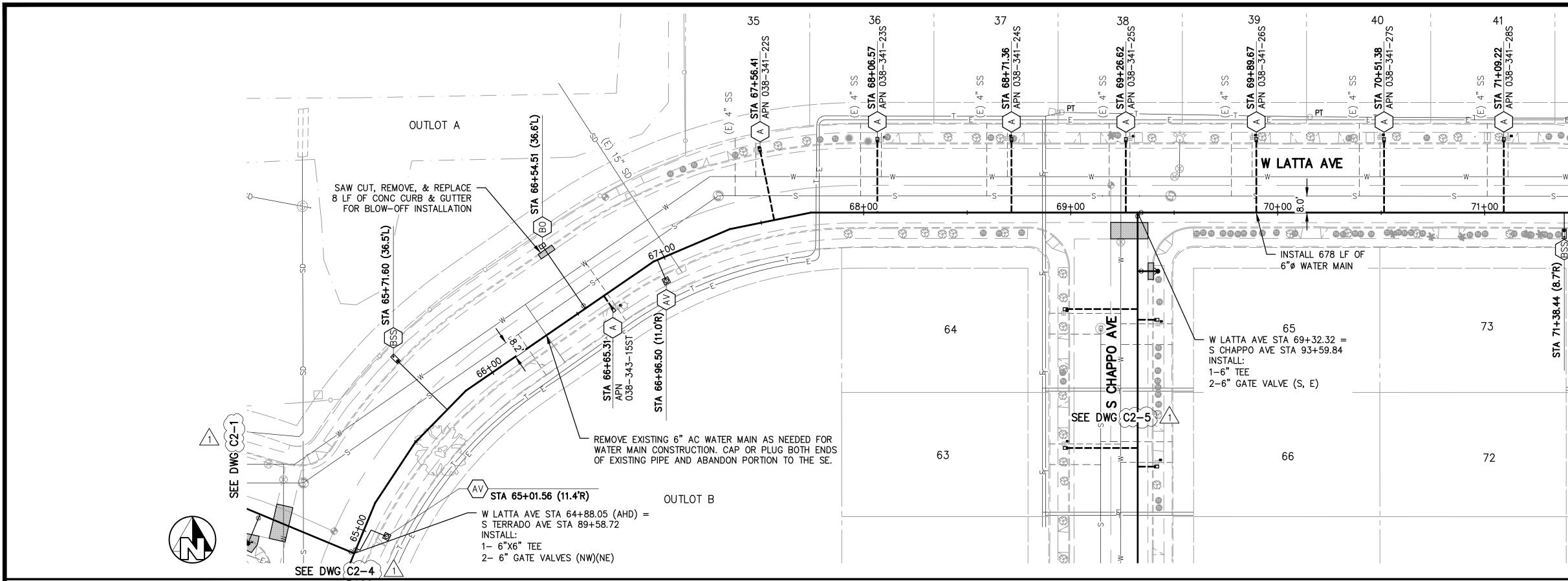
AND STATED ON SHEET G2. 1 SAW CUT, REMOVE AND REPLACE CURB AND 5. GUTTER AT EACH FIRE HYDRANT AND BLOW OFF INSTALLATION A MINIMUM OF 8 FEET OR TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.





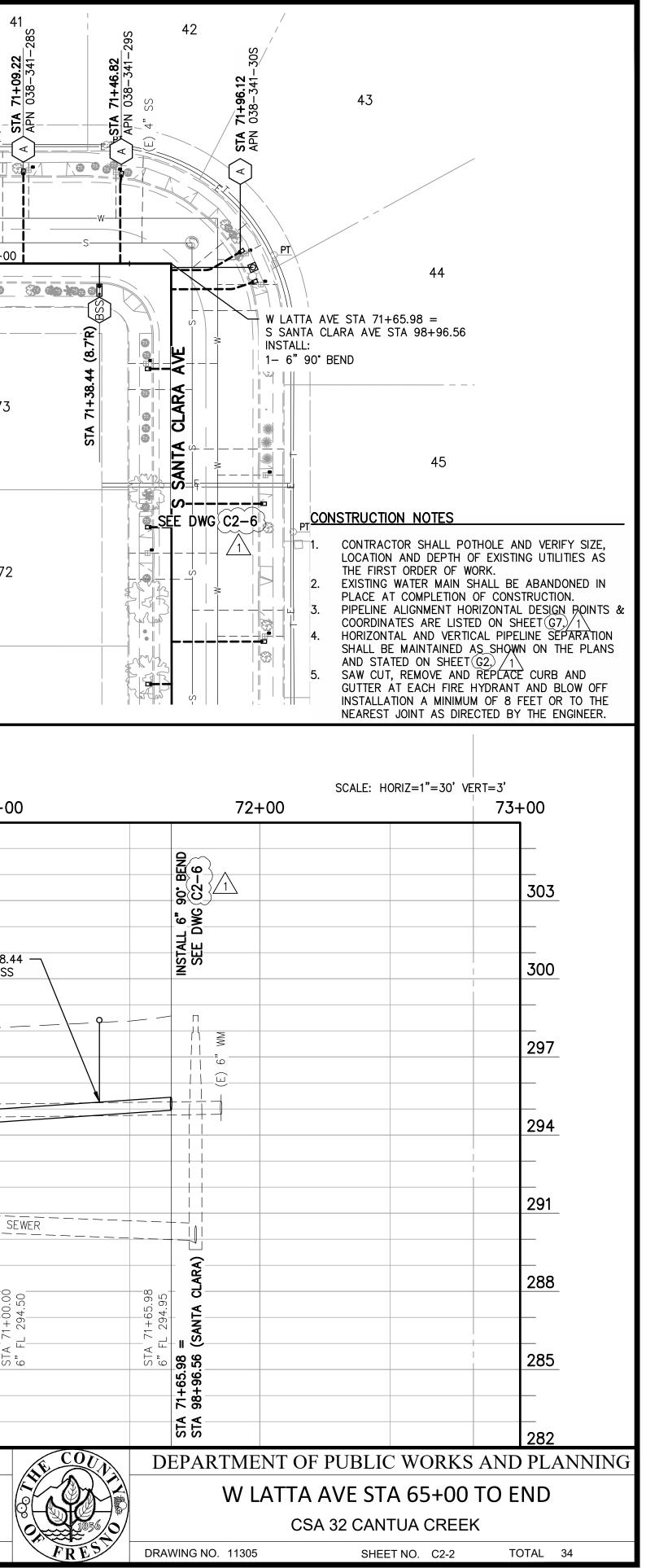


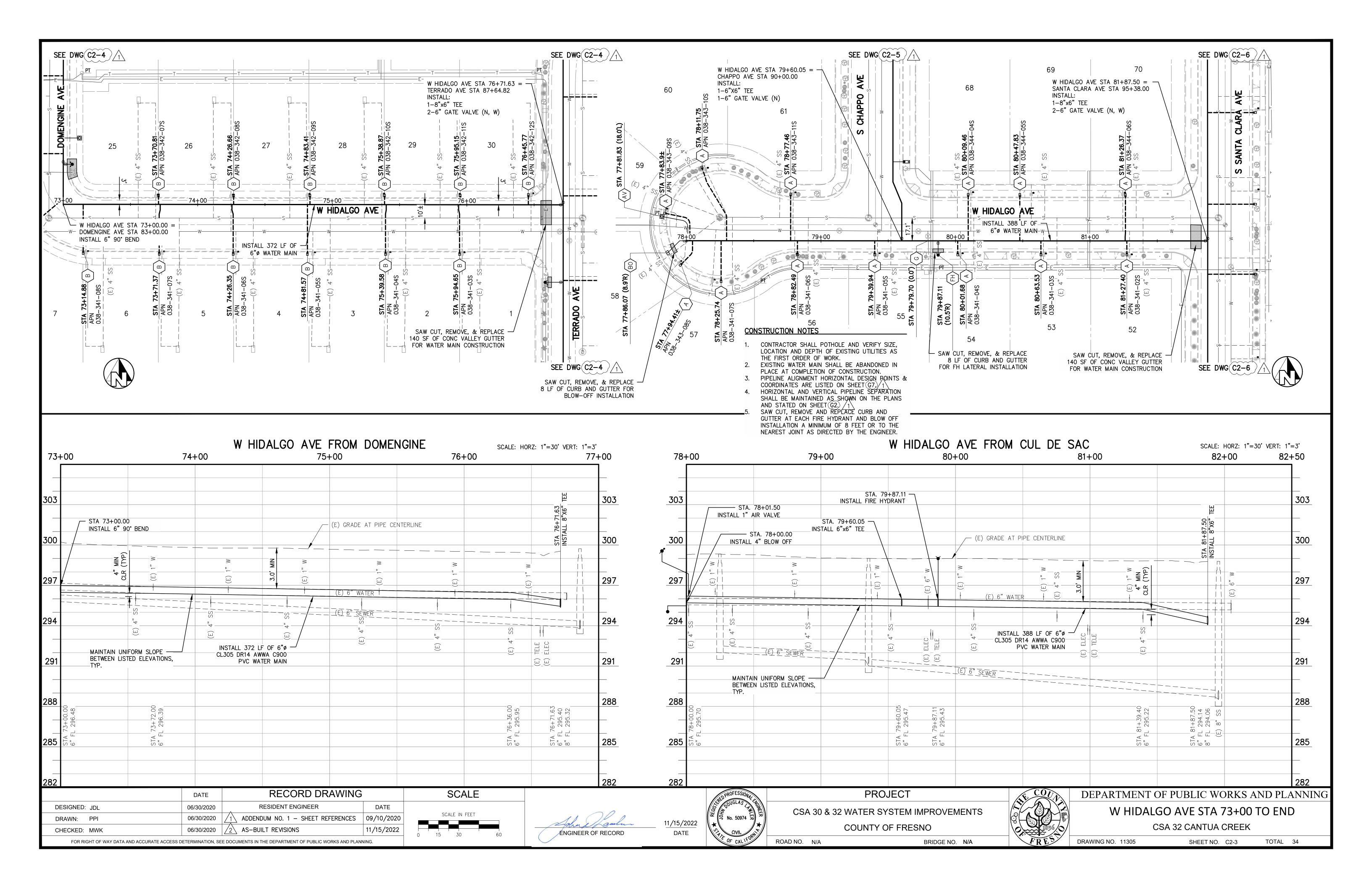
- CONSTRUCTION NOTES
- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
- EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
- PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET G7. 1 HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET G2. 1 SAW CUT, REMOVE AND REPLACE CURB AND CUTTER AT EACH FIRE HYDRANT AND PLOW OFF
- 5. GUTTER AT EACH FIRE HYDRANT AND BLOW OFF INSTALLATION A MINIMUM OF 8 FEET OR TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

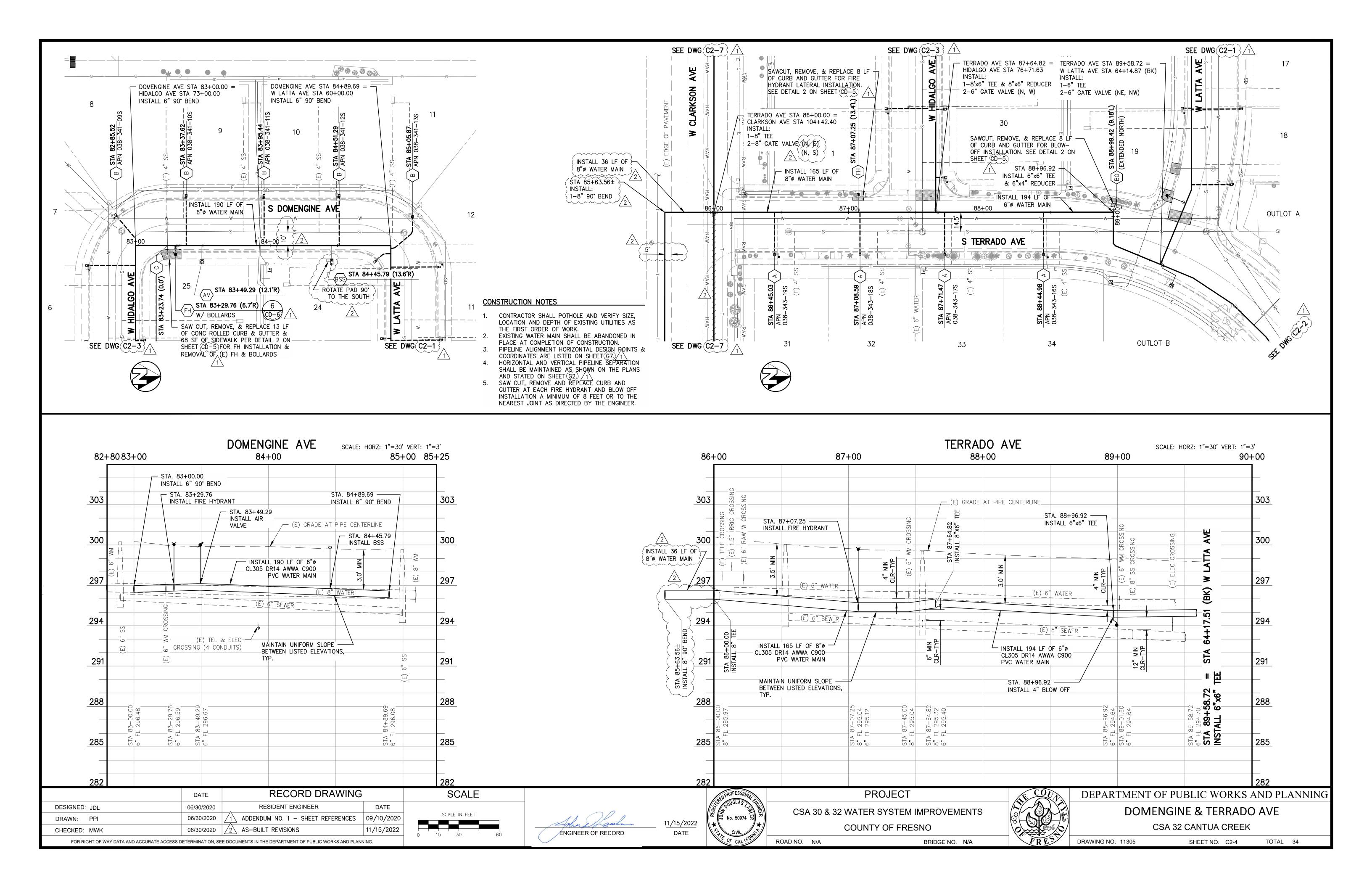


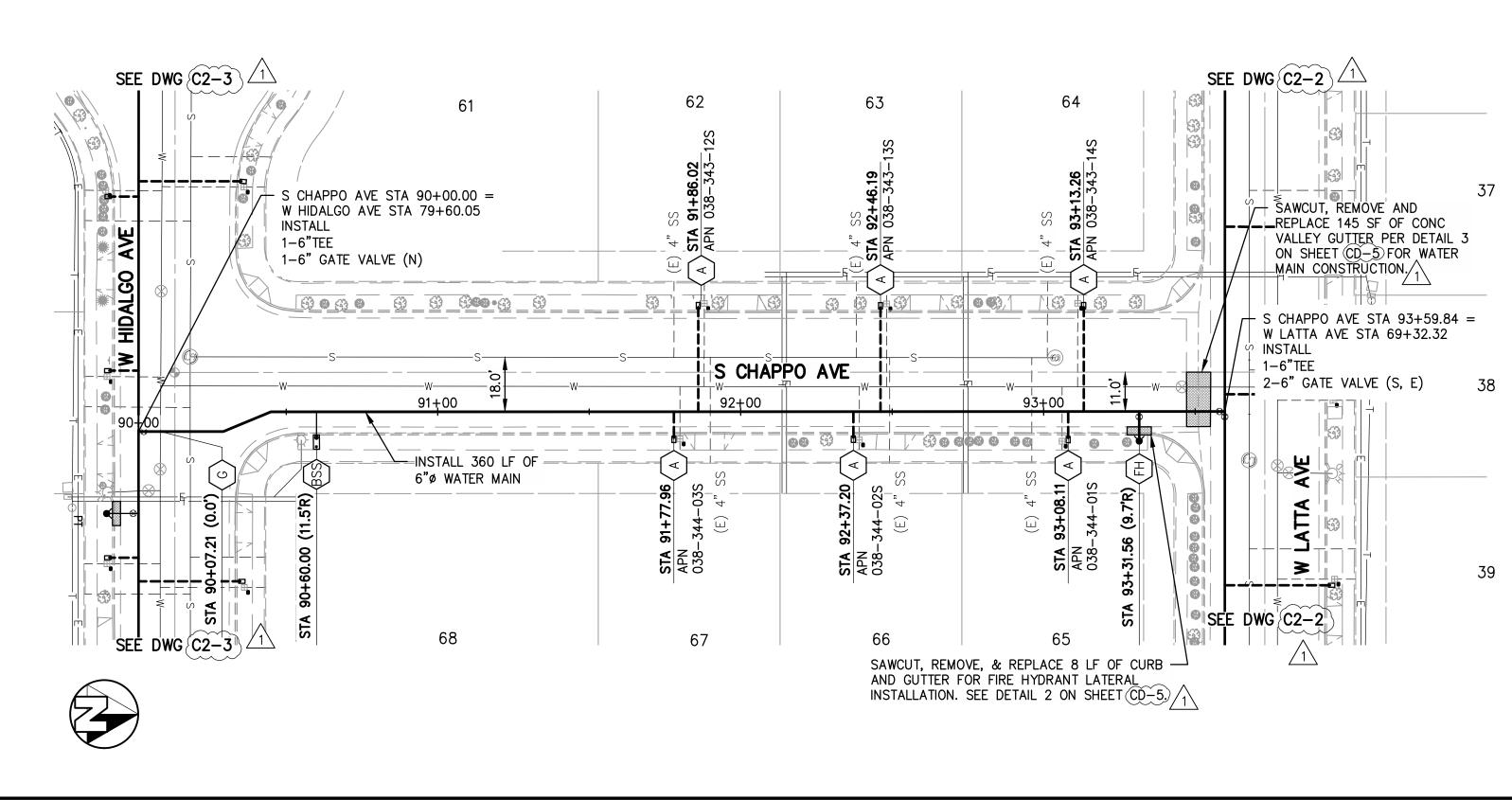
64+00		65+00		66-	+00			67+00
303	SEE DWG C2-4 INSTALL 6"x6" TEE		STA 64+ NSTALL	-90.55 AIR VALVE		STA 66+	·96.50	STA 66+5 INSTALL 1 DUCTILE II CONCRETE CAN'T BE
300			/		A 65+71.59 STALL BSS			(E) GRADE A
297			.0, MIN		<b>4" MIN</b> CLR-TYP (E) 4" SS	× °9 (E) 6"		(E) 15" SD MIN
294				(E) 8" SEWER				
291	E DWG C2-1 64+14.87 (BACK)				 STA 66 INSTALL		20' <u>NO JOINTS</u>	CLR
288	= SE RRADO)	64+88.05 L 294.70		INSTALL 166 LF O CL305 DR14 AWW PVC WATER MAIN	F 6"ø A C900		- 294.28 - 294.28	66+94.48 L 294.78 67+14.48 L 294.78
285	1+88.05 (A	STA 6 6" FL					· · · · · · · · · · · · · · · · · · ·	SIA 6 6" FL 6" FL 87A 6 6" FL
282	STA 64 = STA							
		DATE		RECORD DR	AWING		S	SCALE
DESIGNED: JDL		06/30/2020	R	ESIDENT ENGINEER		DATE		
DRAWN: PPI		06/30/2020		UM NO. 1 - SHEET RE	FERENCES	09/10/2020	D SCAL	LE IN FEET
CHECKED: MWK		06/30/2020		LT REVISIONS		11/15/2022	0 15	30 60

### W LATTA AVE 68+00 69+00 70+00 71+00 $rac{}{}$ STA 69+32.32 = 54.48 TO STA 67+74.48 \_\_STA 93+59.84 (CHAPPO AVE.) \_ 120 LF OF 6"ø CL 52 RON WATER MAIN. PLACE INSTALL 6"x6" TEE SLURRY IF 2.5' COVER MAINTAINED. STA 71+38.44 -INSTALL BSS INSTALL 392 LF OF 6"Ø CL305 DR14 AWWA C900 PVC WATER MAIN AT PIPE CENTERLINE -- NM - T - T 3.0' MIN 3.0' MIN Ш CLR 4 (E) 6"WATER (E) ELEC ┥┝ᅳᆜᅳ\_ \_\_\_\_ \_\_\_(<u>E)</u> <u>8</u>" SEWER MAINTAIN UNIFORM SLOPE ----BETWEEN LISTED ELEVATIONS, TYP. STA 69+24.25 6" FL 293.64 STA 69+32.32 6" FL 293.64 45.00 70+12 294. STA 67+ 6" FL 29 STA<sup>†</sup>7 6"FL PROJECT PROFESS/0 CSA 30 & 32 WATER SYSTEM IMPROVEMENTS No. 50974 11/15/2022 COUNTY OF FRESNO DATE ENGINEER OF RECORD OF CAL' ROAD NO. N/A BRIDGE NO. N/A

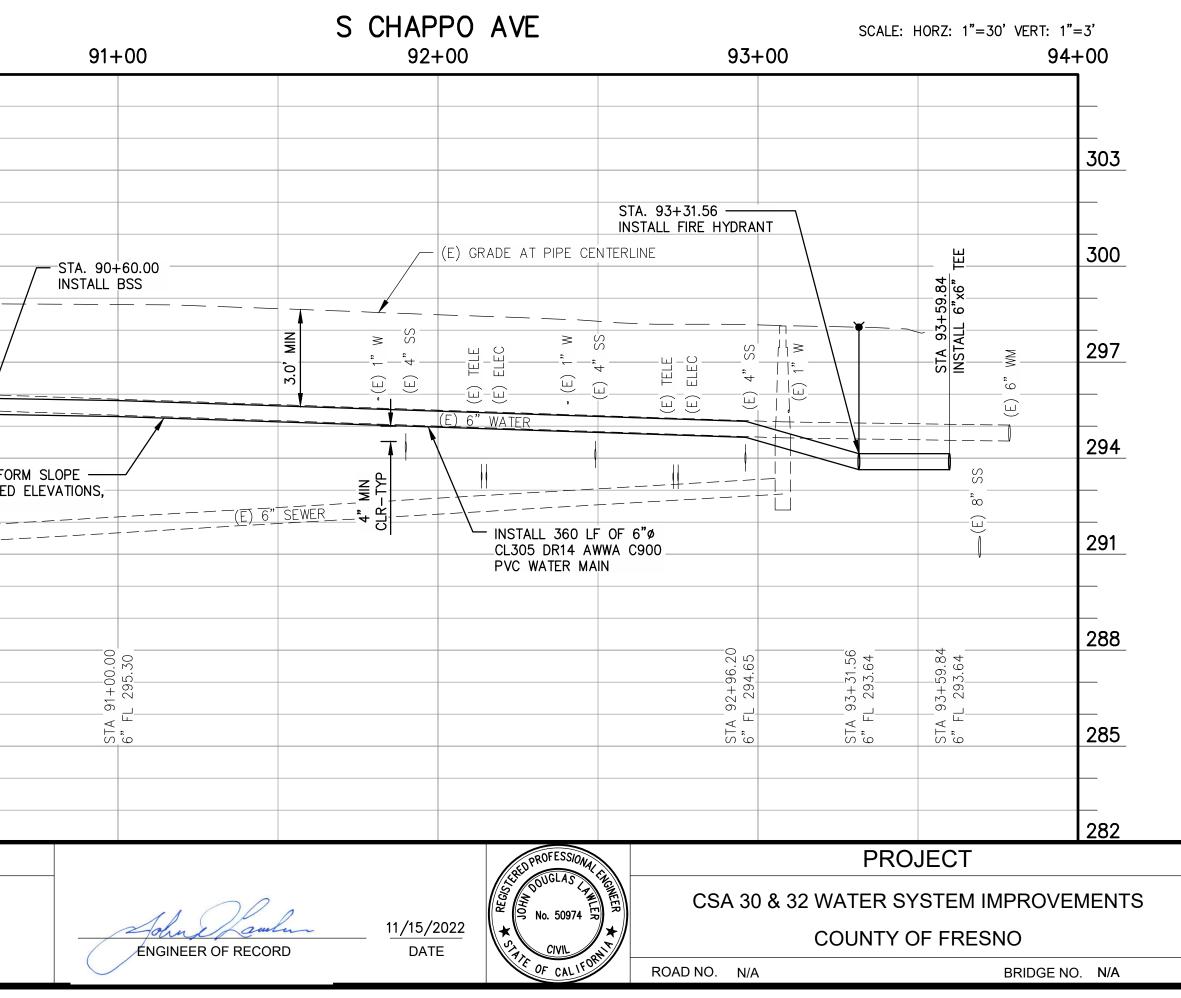








			ç	90+00	
			30	)3	
			_30		
			_29		
					/ 
			_29		NN UNIFOF
				ဝ္ ျဖ     TYP.	
			_29	91 -00 I IN IN IN IN IN IN IN IN IN IN IN IN IN I	
			28	38	
				90+00.00	
			00		
			_28	<u></u>	
			28		
	DATE			SCALE	
DESIGNED: JDL	06/30/2020	RESIDENT ENGINEER	DATE 09/10/2020	SCALE IN FEET	
DRAWN: PPI	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022		
CHECKED: MWK		E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLAN		0 15 30	60



CONSTRUCTION NOTES

- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
   EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
   PIPELINE ALIGNMENT HORIZONTAL DESIGN FOINTS &
- COORDINATES ARE LISTED ON SHEET G7./1 4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET G2./1
- 5. SAW CUT, REMOVE AND REPLACE CURB AND GUTTER AT EACH FIRE HYDRANT AND BLOW OFF INSTALLATION A MINIMUM OF 8 FEET OR TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

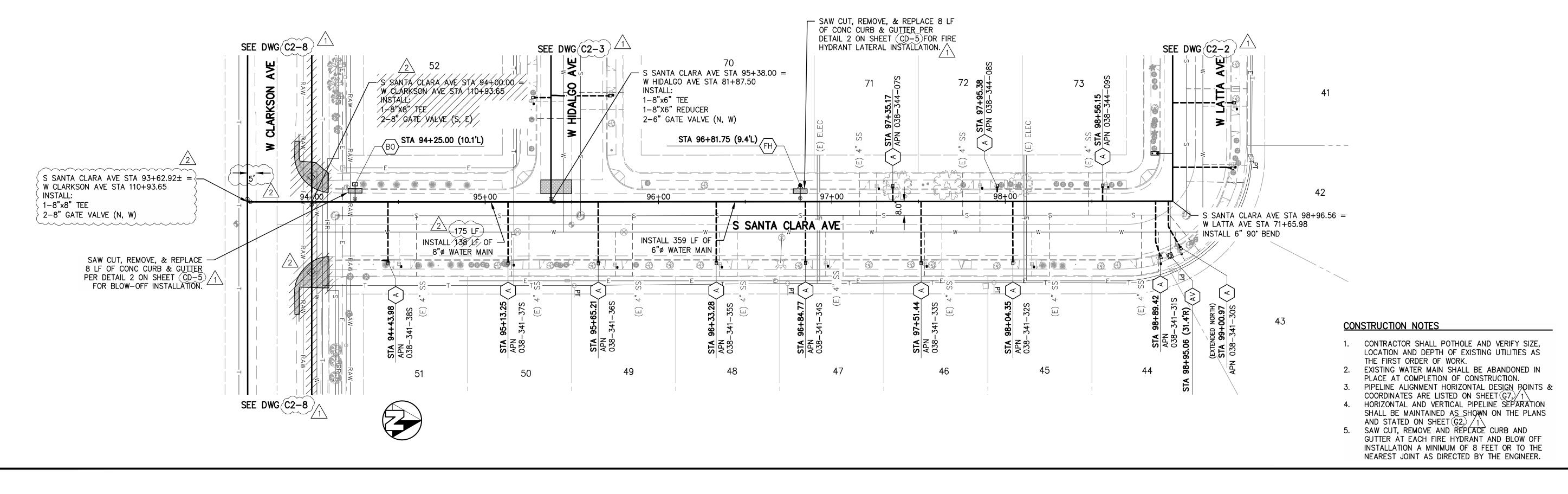


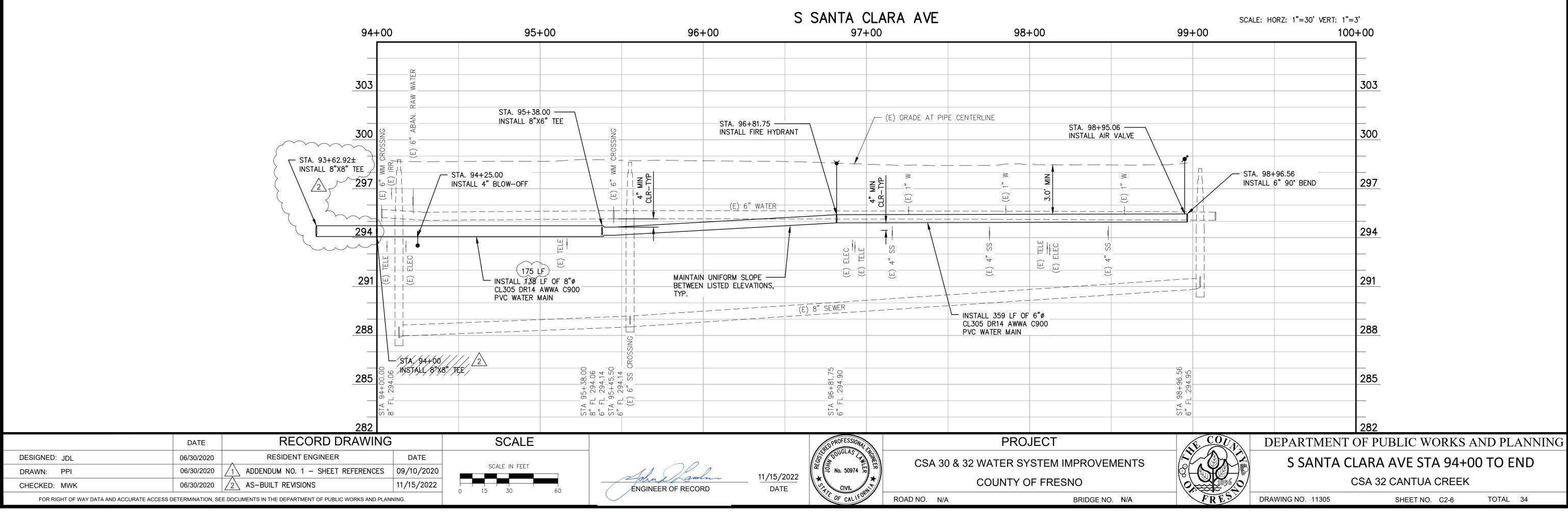
DEPARTMENT OF PUBLIC WORKS AND PLANNING S CHAPPO AVE STA 90+00 TO END CSA 32 CANTUA CREEK

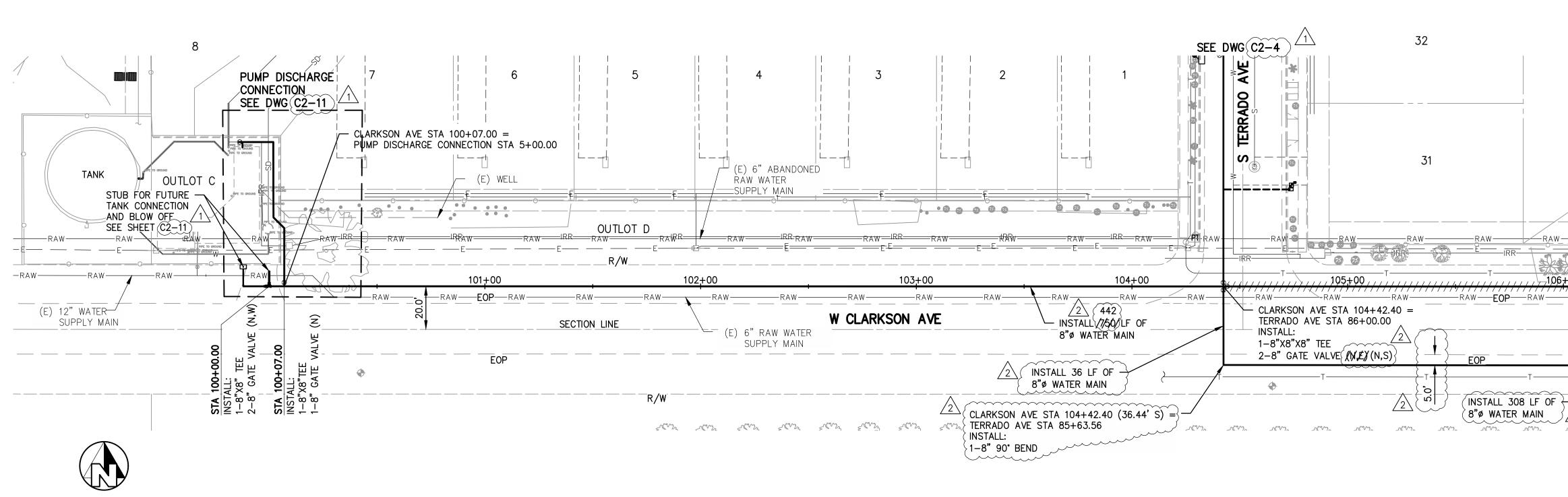
DRAWING NO. 11305

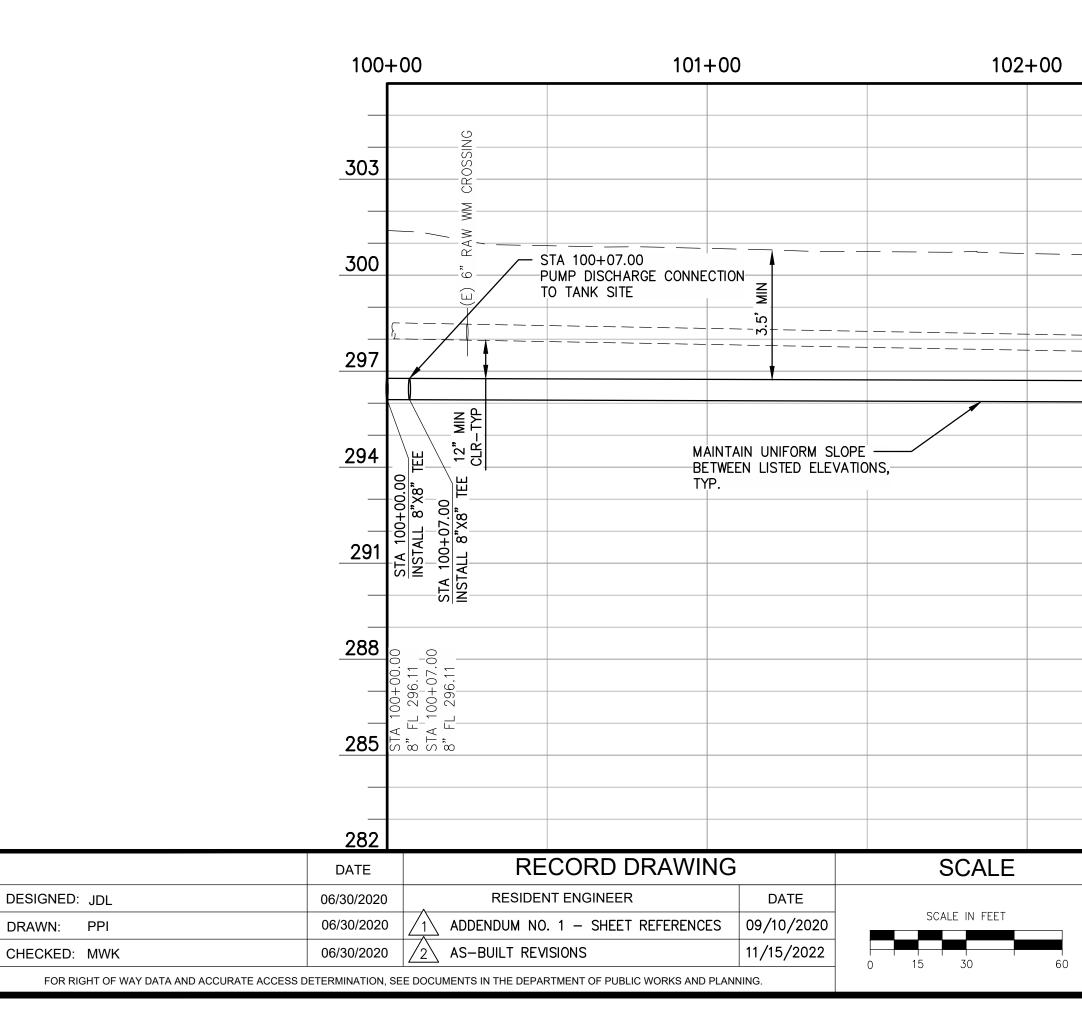
SHEET NO. C2-5

TOTAL 34

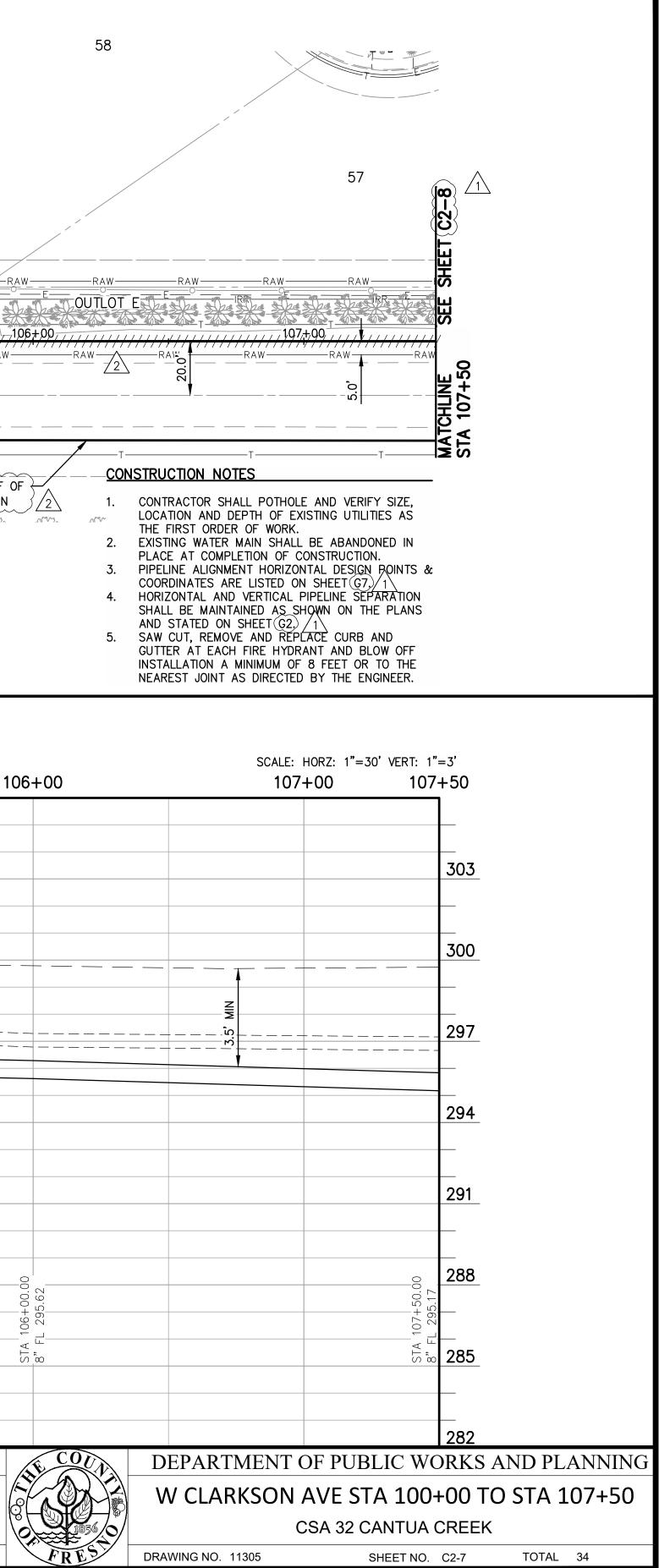


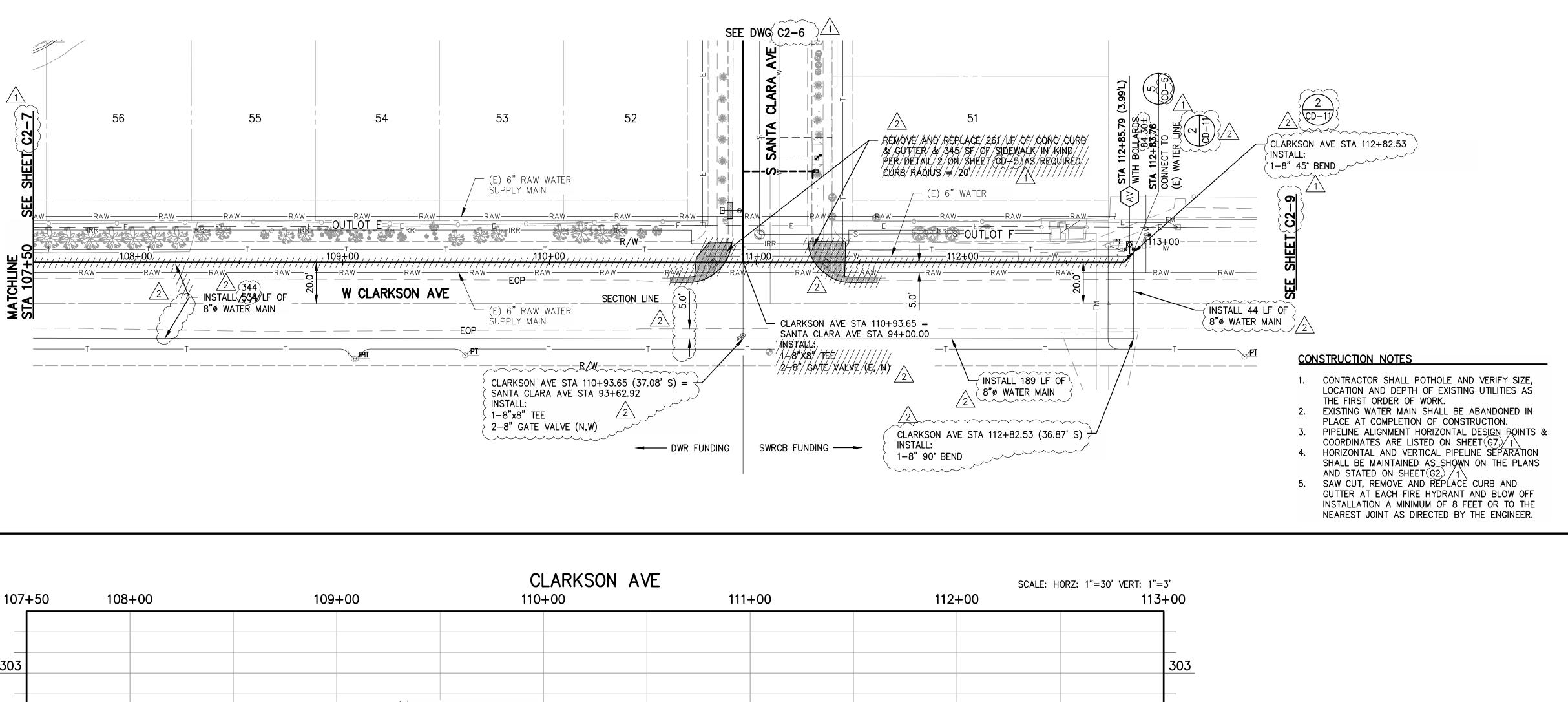






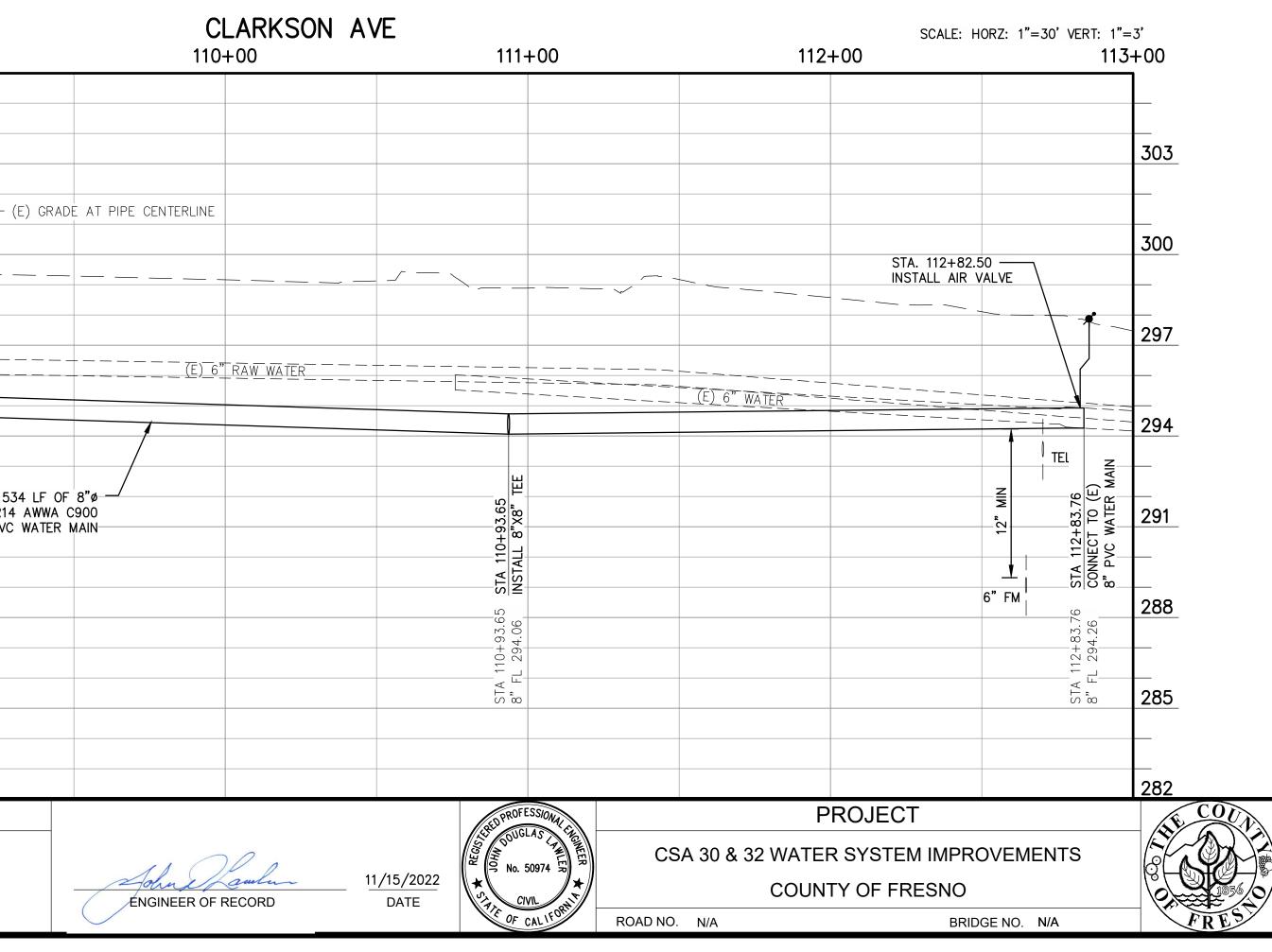
	103+00	CLARKSON AV 104+		105+00	1
		GRADE AT PIPE CENTERLINE			
·		(E) 6" RAW WATER		·	
	CL305 DR	750 LF OF 8"ø/ 14 AWWA C900 /C WATER MAIN			
			STA 104+42.40 INSTALL 8"X8" T		
			STA INS		
			104+42.40 L 295.97		
			STA 1044 8" FL 29		
		SPROFESSIONAL		PROJECT	
	11001		CSA 30 &	32 WATER SYSTEM IMPR	OVEMENTS
	ENGINEER OF RECORD	11/15/2022 DATE	★∥		GE NO. N/A
				DIVIL	







			107+50	108+00		109	+00
			303				
			300				
			297			3.5' MIN	·
			294	MAIN	TAIN UNIFORM		
			291	TYP.	EEN LISTED ELE	- VA HUNS,	— INSTALL 53 CL305 DR14 — PVC
			<b>288</b> 295.17				
			285 La 10 285 La				
			282				
<b>BF0</b> (2)-5		DATE				SCA	
DESIGNED:		06/30/2020			DATE	SCALE IN F	EET
DRAWN: CHECKED:	PPI MWK	06/30/2020	2 ADDENDUM NO. 1 – AS-BUILT REVISIONS	SHEET REFERENCES	09/10/2020		
	GHT OF WAY DATA AND ACCURATE ACCESS I					0 15 30	60



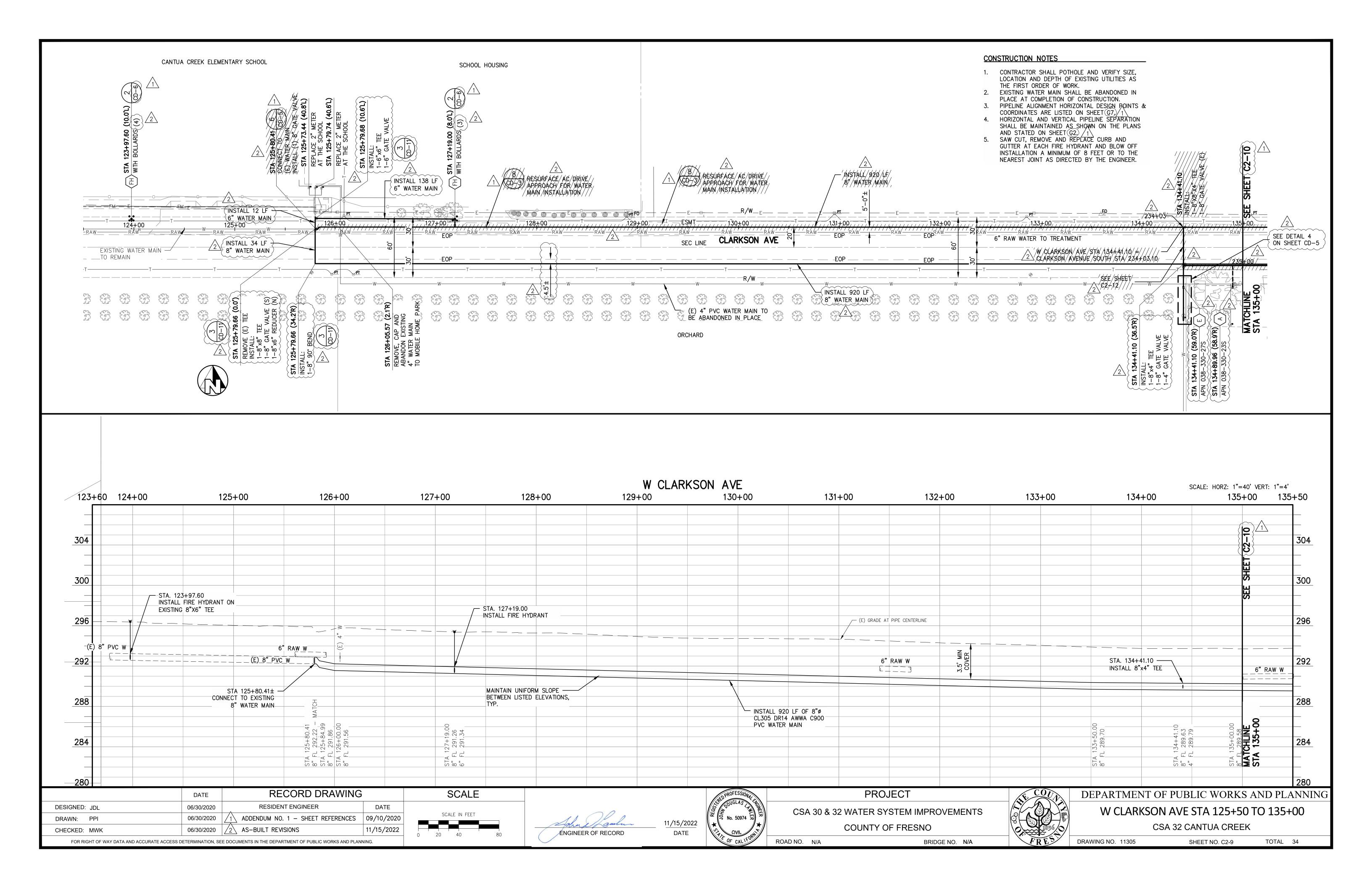
3	(	)	(

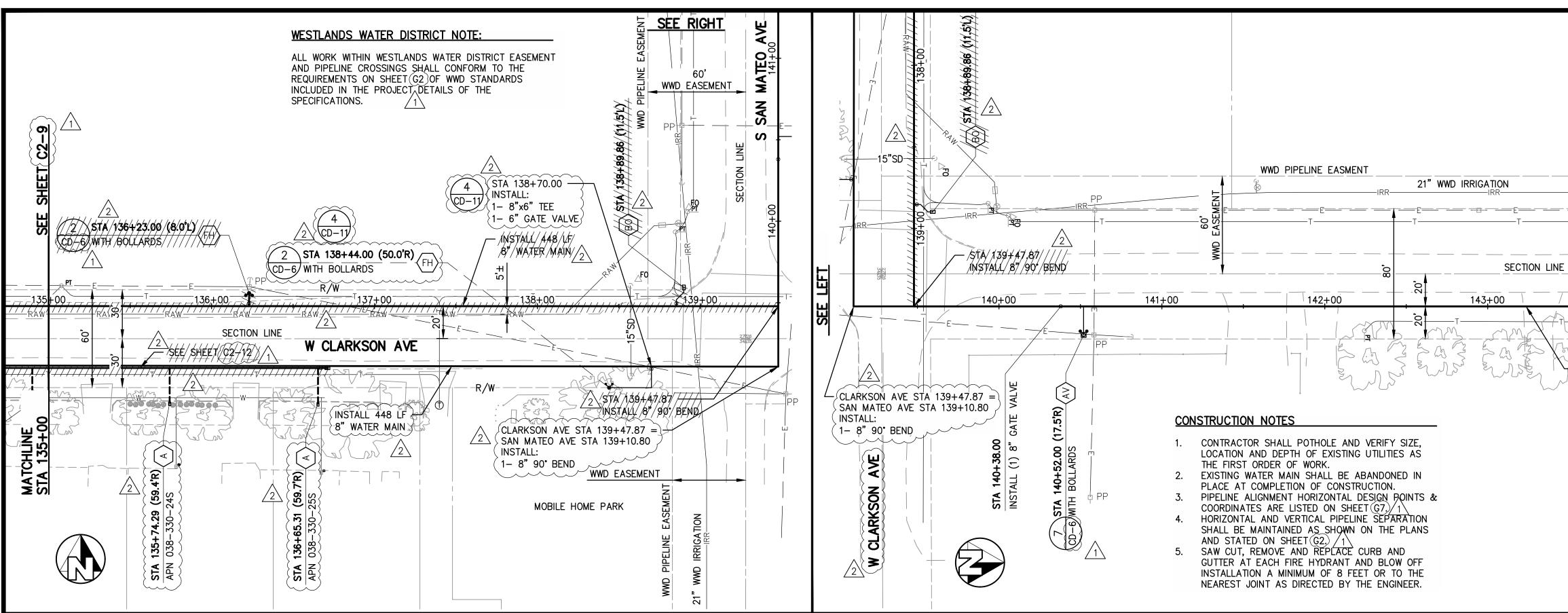
DEPARTMENT OF PUBLIC WORKS AND PLANNING W CLARKSON AVE STA 107+50 TO 112+84 CSA 32 CANTUA CREEK

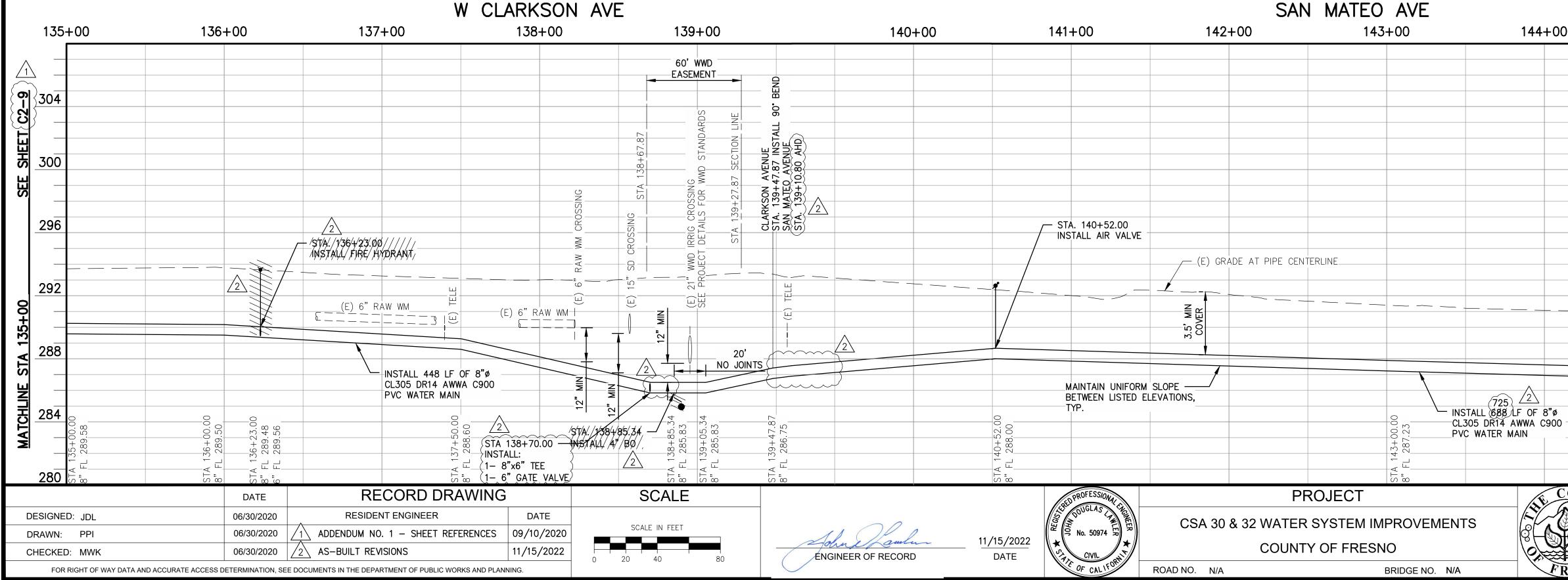
DRAWING NO. 11305

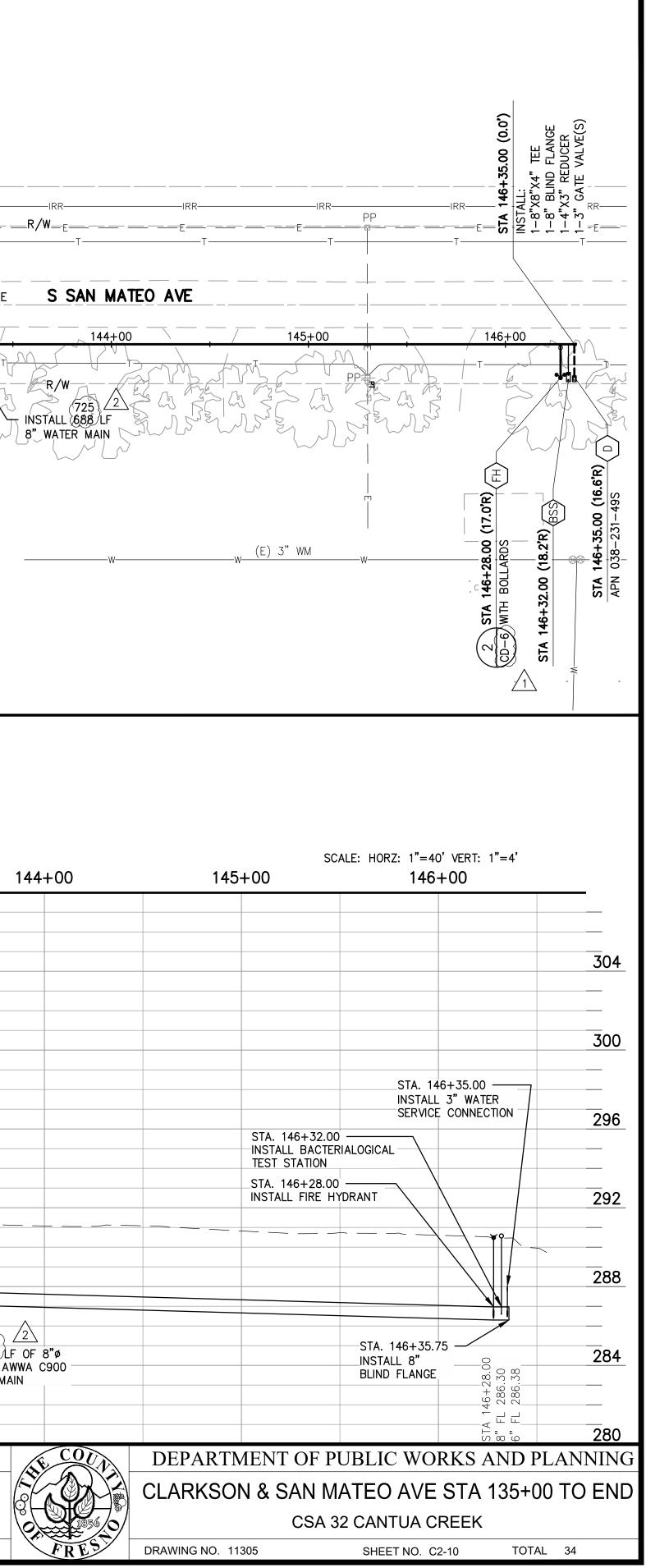
SHEET NO. C2-8

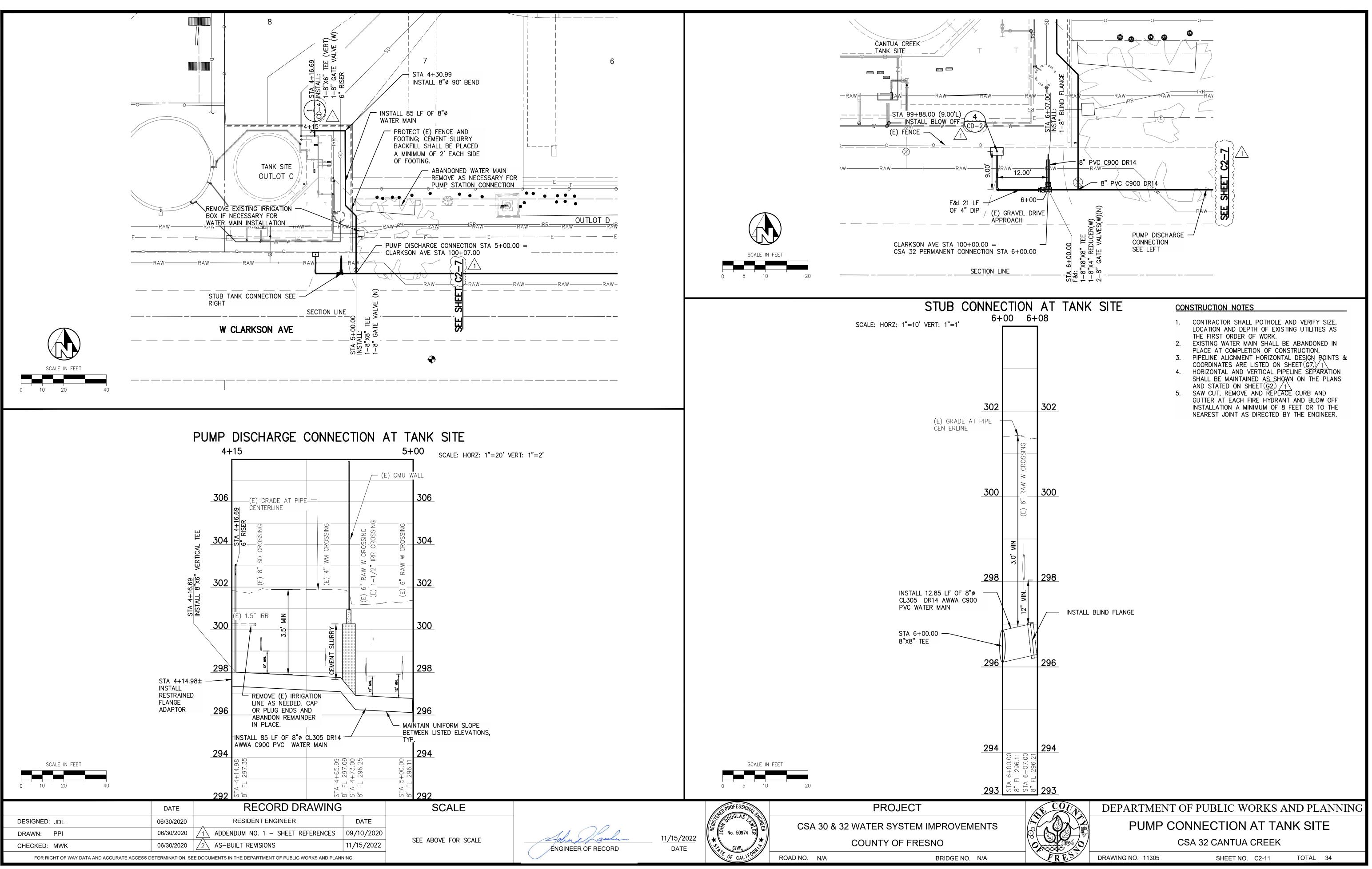
TOTAL 34

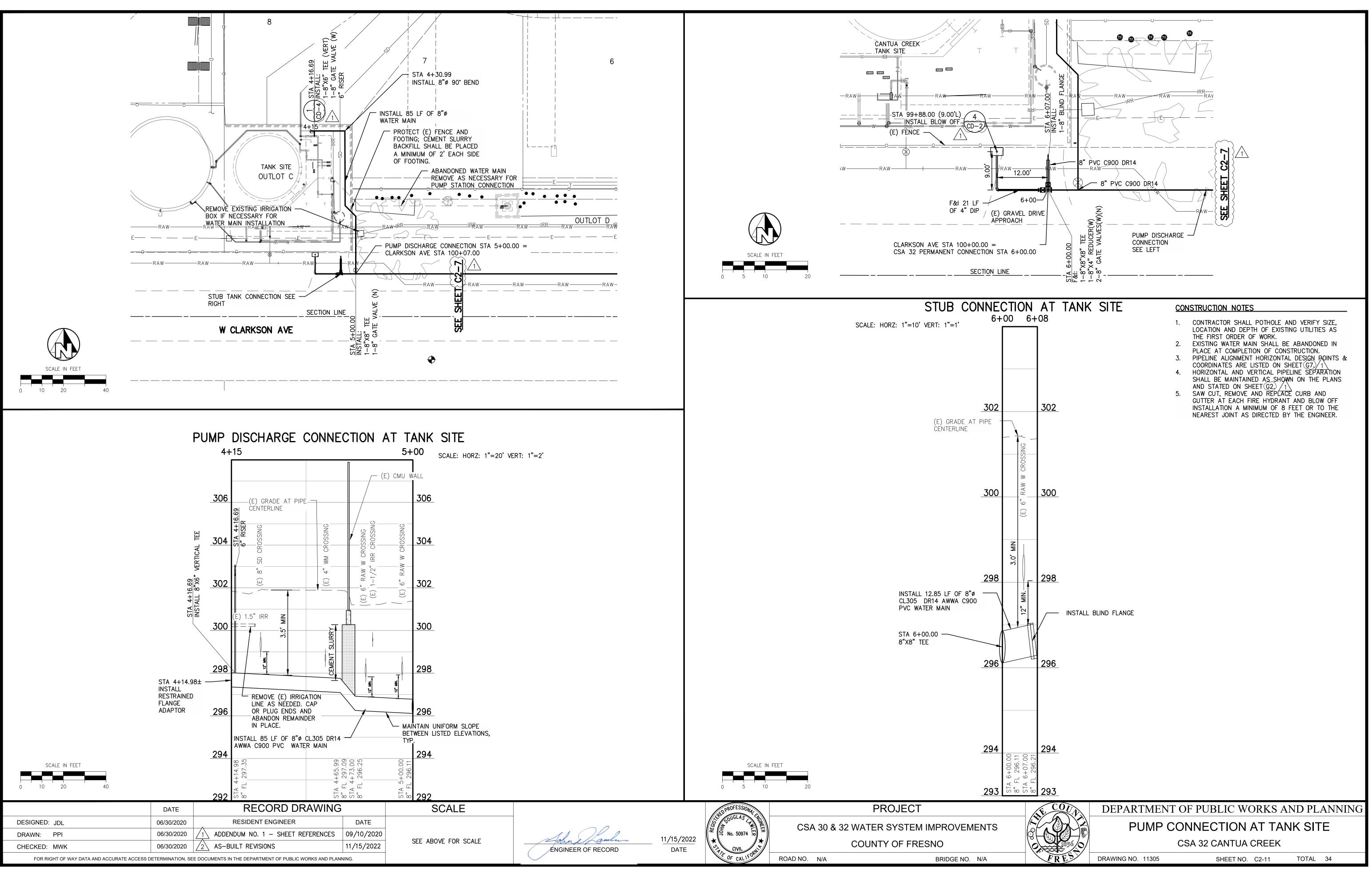


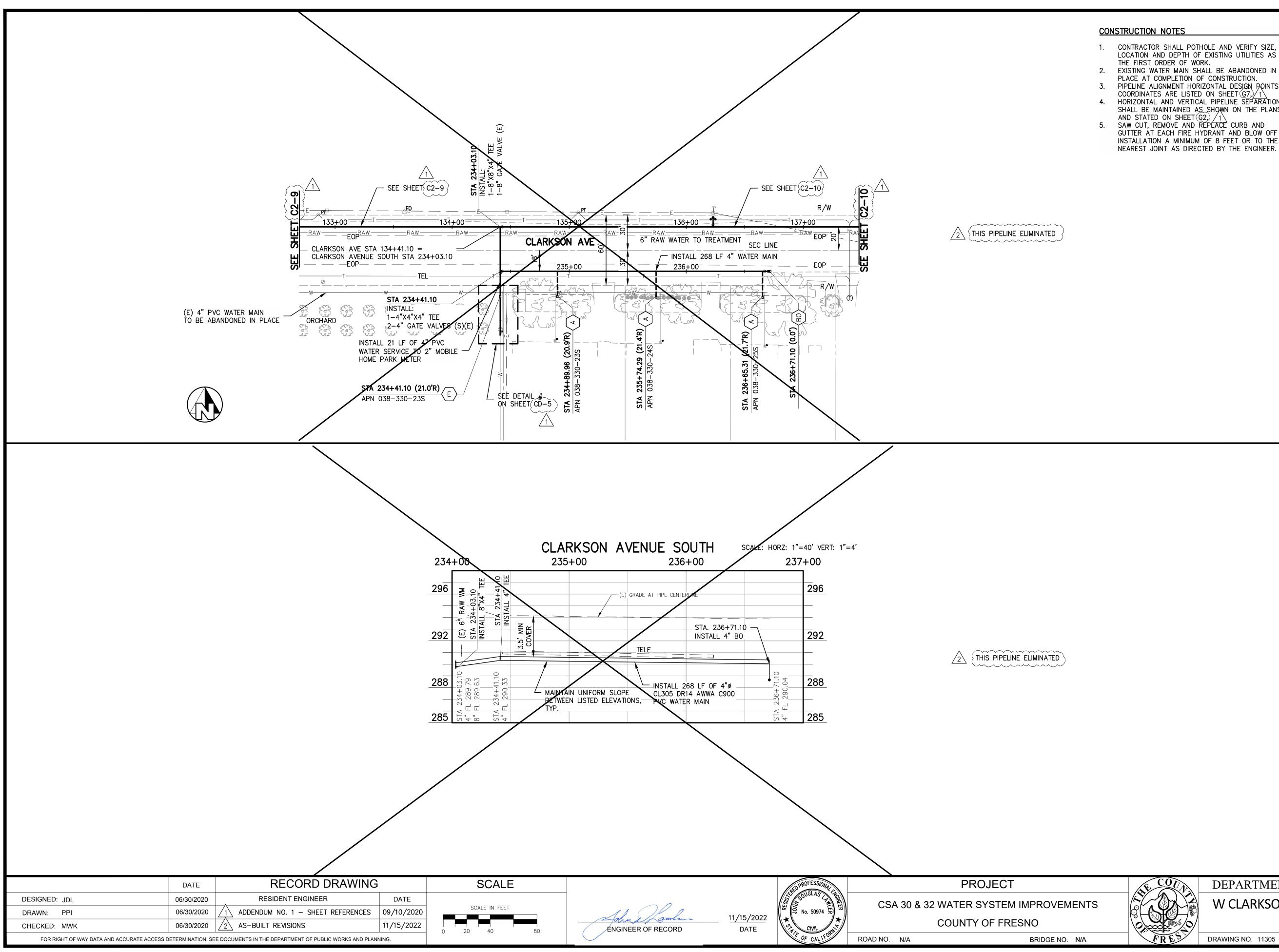












1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.

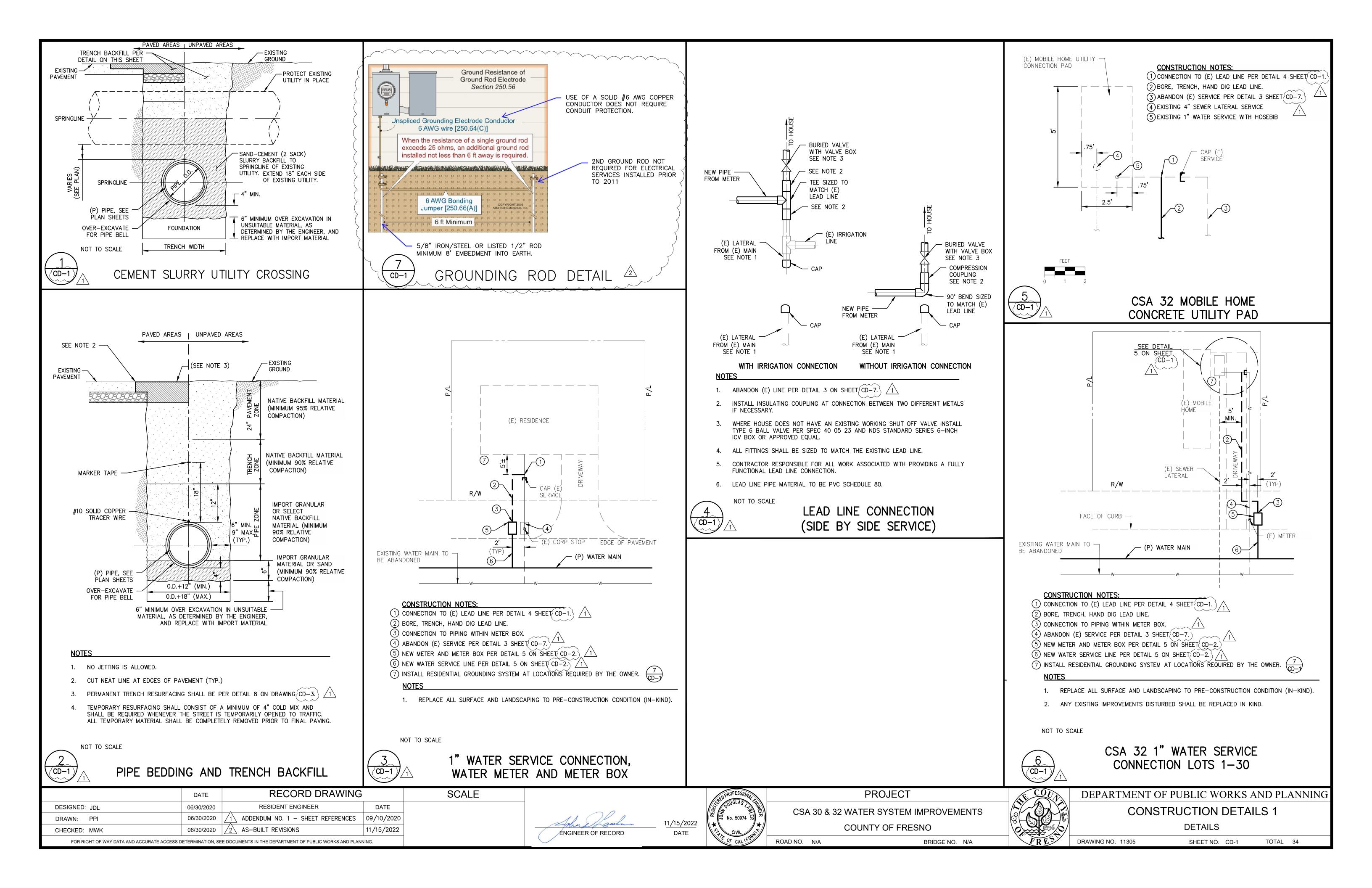
PLACE AT COMPLETION OF CONSTRUCTION. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7,)/1HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2) / 1

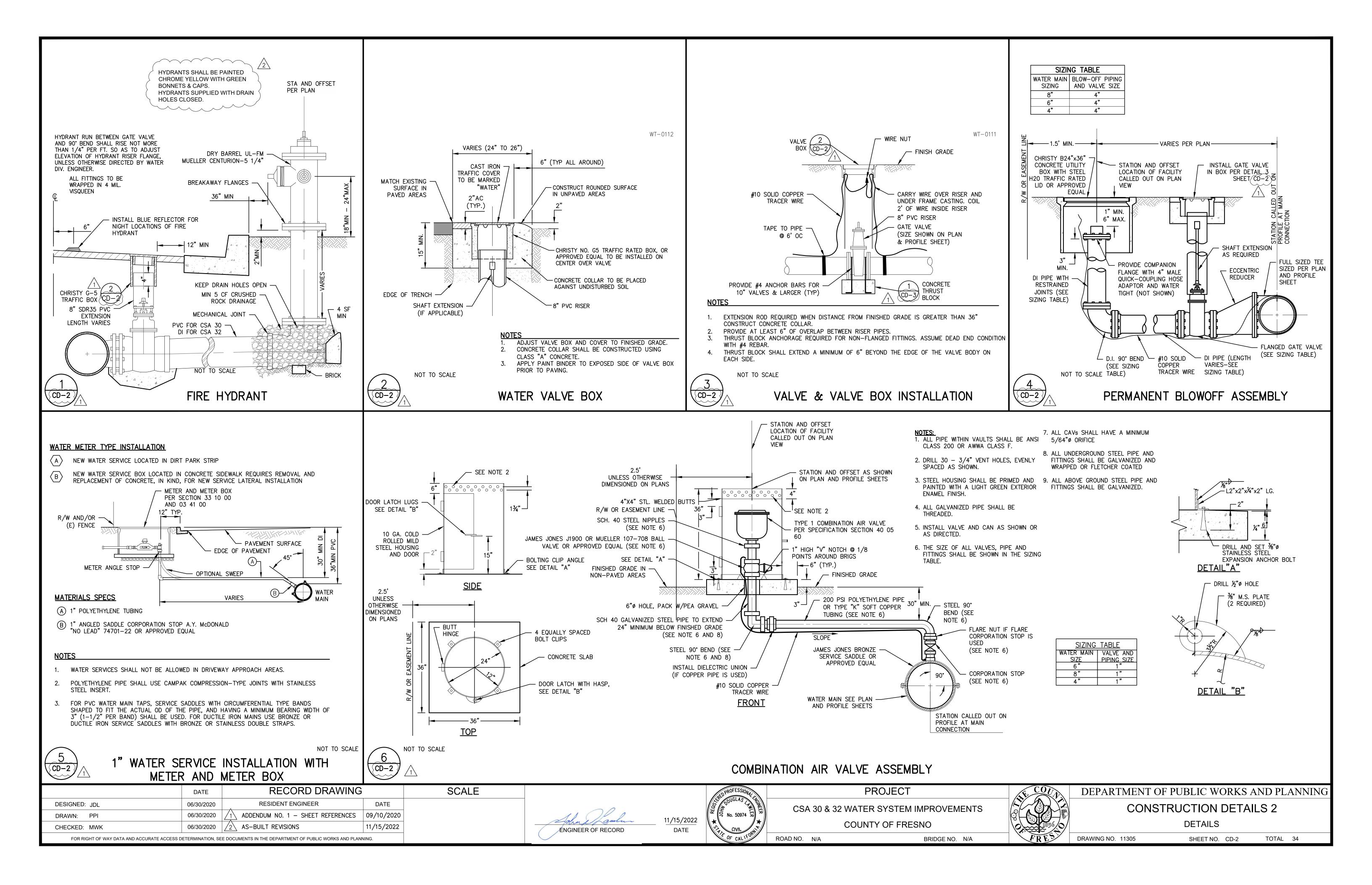
SAW CUT, REMOVE AND REPLACE CURB AND GUTTER AT EACH FIRE HYDRANT AND BLOW OFF INSTALLATION A MINIMUM OF 8 FEET OR TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.

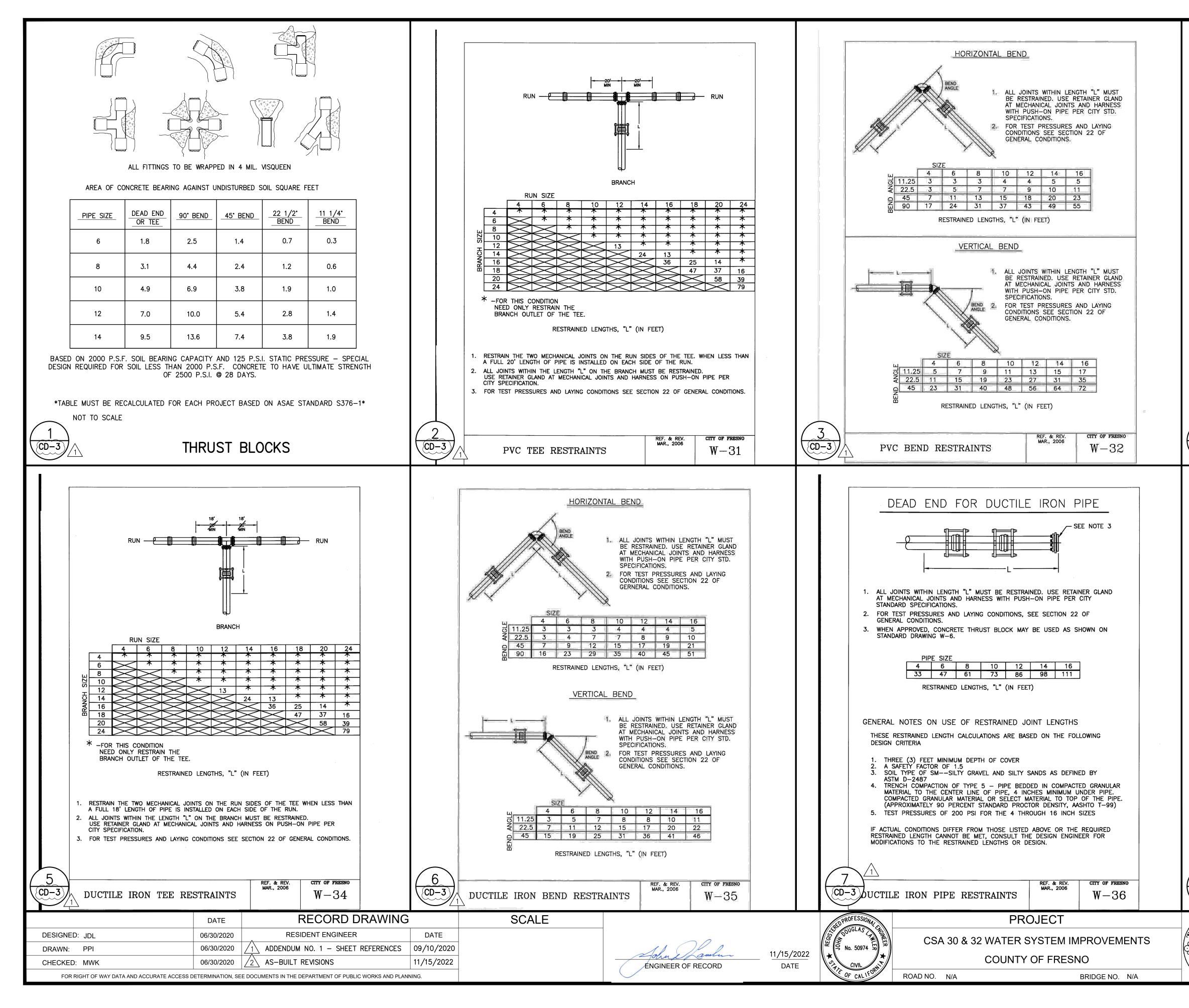
> DEPARTMENT OF PUBLIC WORKS AND PLANNING W CLARKSON AVE SOUTH STA 234+03 TO 236+71 CSA 32 CANTUA CREEK

DRAWING NO. 11305

SHEET NO. C2-12







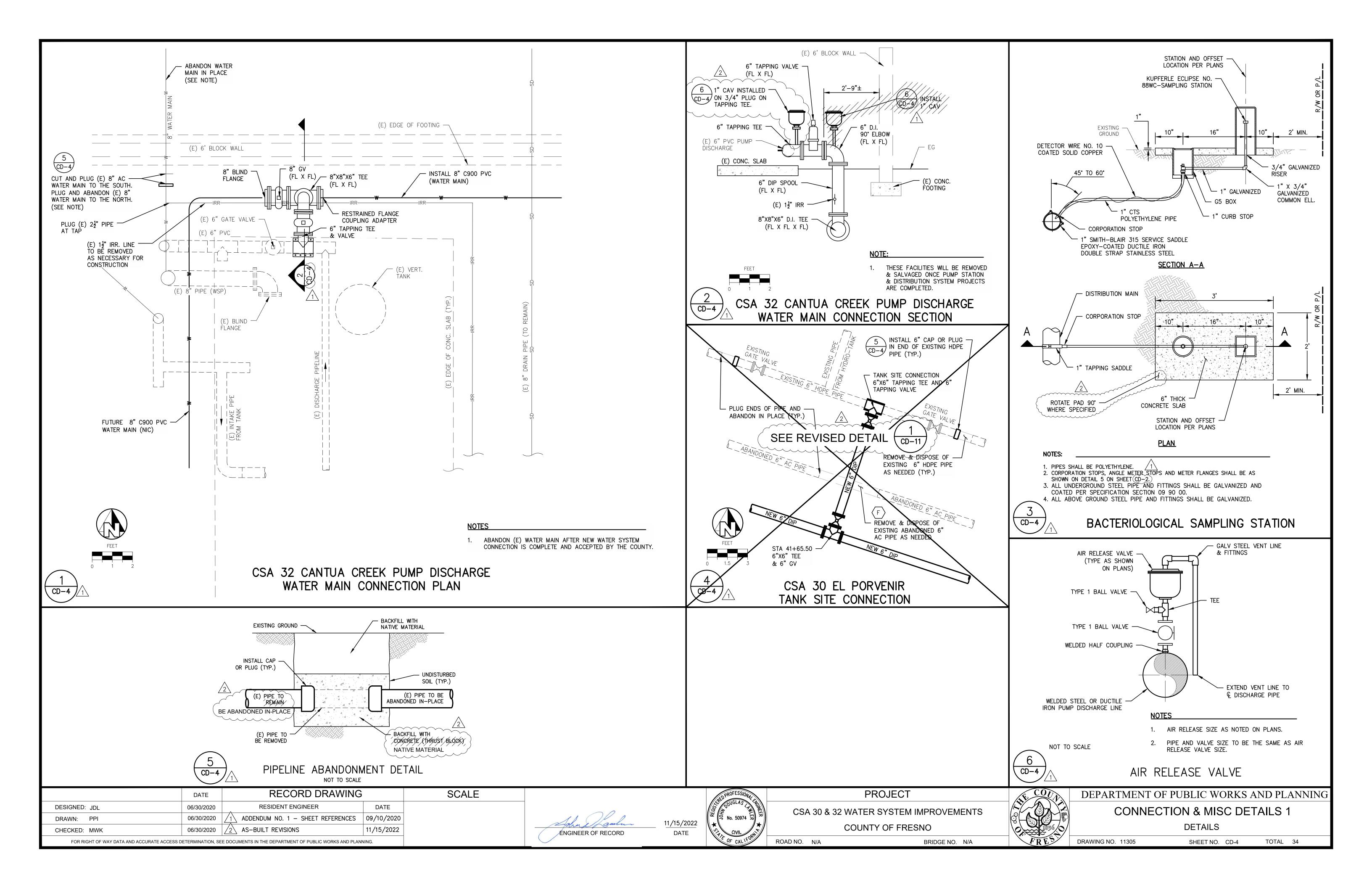
SEE NOTE 3     SEE NOTE 3     SEE NOTE 3     ALL JOINTS WITHIN LENGTH 'L' MUST BE RESTRAINED, USE RETAINER GUAND     ALL JOINTS WITHIN LENGTH 'L' MUST BE RESTRAINED, USE RETAINER GUAND     STANDARD SPECIPATIONS.     TOTEME      SEE NOTE 3      SEE NOTE 3      SEE NOTE 3      STANDARD SPECIPATIONS      TOTEME      TOTEME      TOTEME      TOTEME      TOTEME      SEE NOTE 3      TOTEME      SEE NOTE 3      STANDARD SPECIPATION      TOTEME      SEE NOTE 3      TOTEME      SEE NOTE 3      SEE NOTA				
ALL JONES WITHIN LENGTH "L" MUST BE RESTRAINED. USE RETAINER GLAND ALL JONES WITHIN LENGTH "L" MUST BE RESTRAINED. USE RETAINER GLAND ALL JONES WITHIN LENGTH "L" MUST BE RESTRAINED JONE REF CHT ALL JONES WITHIN LENGTH "L" MUST BE RESTRAINED JONES DER DER 2. COMBINES. 2. COMBINES. 3. WHEN APPROVED CONCERTE THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THE THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DAMMING "AND THRUST BLOCK MAY BE USED AS DEFNED BY MISTING" COMPACING OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING TO THE COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" TO THE STANDARD PHOTO FOR THE REPORT MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE 6. – PHE BEDDED IN COMPACTED CRIMILIAR MISTING" COMPACTION OF THE FORMER THR THR THR THR THR THR THR THR THR TH	DEAD END	FOR PV		
AT MECHANICAL JOINTS AND HARRESS WITH PUSH-ON PIPE PER DTY         STRADAMS SECONDANS.         1. DECK ALSSURES AND LAYING CONDITIONS, SEE SECTION 22 OF GENERAL         1. WEEN APPROVED, CONCRETE THRUST BLOCK MAY BE USED AS SHOWN ON STANDARD DRAWING W-6.         PPE SIZE         1. STANDARD DRAWING W-6.         CENERAL NOTES ON USE OF RESTRAINED JOINT LENGTHS         THESE RESTRANCED LENGTH CALCULATIONS ARE PARED ON THE FOLLOWING DESION CHEERAL         0. THE OF STANDARD LENGTH OF COVER         2. A STEPT FIELT NUMMUM DEPTH OF COVER         3. SATETY FRANK DILENGTH CALCULATIONS ARE PARED ON THE FOLLOWING DESION CHEERAL         0. THE OF STANDARD CONTRE LINE OF PROPE 1. OCUPACIED GRAVULAR ASTED - 2600, CONTRE LINE OF PROPE 4. INCRUST WAINUM UNDER PIPE COMPACIED GRAVILLAR MICHAIL ON THE OUTLY MAINUM UNDER PIPE COMPACIED GRAVILLAR MICHAIL ON THE OWNON TO MICHAIN MICHAINE PIPE COMPACIED GRAVILLAR MICHAIL ON THE ALTINEL TO TOP OF THE PIPE (MARKING THE DESCRIPT FROM THOUGH THE MICHAIN OF THE PIPE (MARKING THE DESCRIPT IN THE OFFICIAL THOUGH TO MICHAIN MICHAINER FOR MICHAINED LENGTH CONNOT PIPE 5 PIPE EEDDED IN COMPACIED GRAVULAR ASTED - 200 BARLED REPORT TO MICHAIN MICHAINER FOR MICHAINED LENGTH CONNOT BY THE CONSULT THE DESCRIPT HEADING MICHAINER FOR MICHAINED LENGTH CONNOT BY THE CONSULT THE DESCRIPT HEADING MICHAINER FOR MICHAINED LENGTH CONNOT BY THE THE THE CONDUCT ON THE ALTIVE COMPACIED ON THE CONNOT BY THE CONSULT THE DESCRIPT HEADING WITH FUNCTION OF THE BARLED LENGTH CONNOT BY THE CONSULT THE DESCRIPT CONTROL OF THE THENCH LINE STANDARD FRETT RETURE THE THE COND CONTRACT THE CONTROL OF THE THENCH CONTROL TO THE CONNOT BY THE CONTRE CONTREL THE THEADING THE MICHAIN CONTREL THE ALTIVE (INTERCEN			SEI	E NOTE 3
Image: bit of the second state of t	AT MECHANICAL JOINTS AND HARNE STANDARD SPECIFICATIONS. 2. FOR TEST PRESSURES AND LAYING CONDITIONS. 3. WHEN APPROVED, CONCRETE THRU	ESS WITH PUSH CONDITIONS, S	I-ON PIPE PER ( SEE SECTION 22	OF GENERAL
THESE RESTRAINED LENGTH CALCULATIONS ARE BASED ON THE FOLLOWING DESIGN CRITERIA         1       THERE (3) FEET WINNIMM DEPTH OF COVER         2       THENE (3) FEET WINNIMM DEPTH OF COVER         4       TRENCH COMPACTION OF THE S - PIPE BEDDED IN COMPACTED GRANULAR MOTHERATED THIS INTO A THERAL OF SELECT MATCHAIL TO TOP OF THE PIPE (APPROXIMATELY OPERCENT STANDARD PROCTOR DENSITY, ASHTO T-99)         5       TEST PRESSURES OF 200 FS) FOR THE 4 THROUGH 16 INCH SIZES         IF ACTUAL CONDITIONS DIFFER FROM THOSE LISTED ABOVE OR THE REQUIRED RODIFICATIONS TO THE RESTRAINED LENGTHS OR DESIGN.         VIEW OF PIPE RESTRAINTS       W 33    STREET OR GROUND SURFACE          1       UNIT OF MIX ASPHALT CONCRETE PG 64-10    STREET OR GROUND SURFACE          1       IMMA 2000         90 %       RELATIVE COMPACTION         90 %       RELATIVE COMPACTION         90 %       RELATIVE COMPACTION         90 %       RELATIVE COMPACTION         90 %       RELATIVE         1       HMA = HOT MIX ASPHALT CONCRETE PG 64-10         1       IF THERE IS LESS THAN 2 FEET BETWEEN THE EDGE OF A TRENCH CUT AND A CONCRETE IMPROVEMENT, OR EDGE OF PAVING.         1       IF THERE IS LESS THAN 2 FEET BETWEEN THE EDGE OF A TRENCH CUT AND A CONCRETE IMPROVEMENT, OR DEDGE OF PAVING.         1       IF THERE IS LESS THAN 2 FEET BETWEEN THE EDGE OF A TRENCH CUT AND A CONCRETE IMPROVE	4         6         8           52         73         96	115 136	155 174	
2. A SAFETY FACTOR OF 1.5     3. SOLIT TYPE OF SHELLING WAVEL AND SLITY SANDS AS DEFINED BY     4. MERKAL TO THE GOURACTION OF TYPE 5 – PIPE BEDDED IN COMPACTED GRANULAR     MATERAL TO THE CONTRELING OF PIPE 4 MORES MIMIMU MORE PIPE.     COMPACTED GRANULAR MATERAL OR SELECT MATERAL TO TOP OF THE PIPE.     (APPRXIMATELY OF DEPIETS A TRANSADARD PROCOTO DEDISTING ANALINOT PUPIDION     5. TEST PRESSURES OF 200 PSI FOR THE 4 THROUGH 16 INCH SLES     IF ATUAL CONDITIONS DIFFER FROM THOSE LISTED ABOVE OR THE REQUIRED     NODIFICATIONS TO THE RESTRAINED LENGTHS OR DESCH.      PVC PIPE RESTRAINTS     V - 33      STREET OR GROUND SURFACE     95 %     RELATIVE     0.19 COULD PLANE     90 %     RELATIVE     COMPACTION     90 %     RELATIVE     COMPACTION     V - 33      NOTES:      1. HMA = HOT MIX ASPHALT CONCRETE PG 64-10 2. IF THERE IS LESS THAN 2 FEET BETWEEN THE EOGE OF A TRENCH CUT AND     ACONCRETE IMPROVEMENT, OR EDGE OF PAVING, THEN REMOVE AND     RELATIVE COMPACTION     NOTES:      1. HMA = HOT MIX ASPHALT CONCRETE PG 64-10 2. IF THERE IS LESS THAN 2 FEET BETWEEN THE EOGE OF A TRENCH CUT AND     ACONCRETE IMPROVEMENT, OR EDGE OF PAVING, THEN REMOVE AND     RELATIVE COMPACTION SHALL DE PREPARED DEPR APPLICABLE COUNTY     STANDARDS AND TESTING PERFORMED BY CALIFORNIA TEST METHOD 216     AND 216 ADD THE COUNTY.      NO JETTING IS ALLOWED.	THESE RESTRAINED LENGTH CALCULA			OWING
RESTRAINED LENGTH CANNOT BE MET, CONSULT THE DESION ENGINEER FOR MODIFICATIONS TO THE RESTRAINED LENGTHS OR DESION. PVC PIPE RESTRAINTS W-2006 W-33 STREET OR GROUND SURFACE 0.15° COLD PLANE 0.15° COLD	<ol> <li>A SAFETY FACTOR OF 1.5</li> <li>SOIL TYPE OF SMSILTY GRAVI ASTM D-2487</li> <li>TRENCH COMPACTION OF TYPE 5 MATERIAL TO THE CENTER LINE COMPACTED GRANULAR MATERIAL (APPROXIMATELY 90 PERCENT ST</li> </ol>	EL AND SILTY S 5 - PIPE BEDE OF PIPE, 4 ING OR SELECT M TANDARD PROC	DED IN COMPACTE CHES MINIMUM UN IATERIAL TO TOP TOR DENSITY, AAS	D GRANULAR NDER PIPE. OF THE PIPE. SHTO T-99)
PVC PIPE RESTRAINTS     WH, 2006     W-33       STREET OR GROUND SURFACE	RESTRAINED LENGTH CANNOT BE ME	T, CONSULT TH	E DESIGN ENGINE	
PVC PIPE RESTRAINTS     WH, 2006     W-33       STREET OR GROUND SURFACE	\			
0.15 COLD PLANE       Image: Cold PLANE       Imag	PVC PIPE RESTRAIN	TS		
<ol> <li>HMA = HOT MIX ASPHALT CONCRETE PG 64-10</li> <li>IF THERE IS LESS THAN 2 FEET BETWEEN THE EDGE OF A TRENCH CUT AND A CONCRETE IMPROVEMENT, OR EDGE OF PAVING, THEN REMOVE AND REPLACE THE ASPHALT CONCRETE PAVEMENT FROM THE EDGE OF THE TRENCH CUT TO THE CONCRETE IMPROVEMENT, OR EDGE OF PAVING.</li> <li>RELATIVE COMPACTION SHALL BE PREPARED PER APPLICABLE COUNTY STANDARDS AND TESTING PERFORMED BY CALIFORNIA TEST METHOD 216 AND 231 AS DETERMINED BY THE COUNTY.</li> <li>NO JETTING IS ALLOWED.</li> </ol> DATE				W-33
A CONCRETE IMPROVEMENT, OR EDGE OF PAVING, THEN REMOVE AND REPLACE THE ASPHALT CONCRETE PAVEMENT FROM THE EDGE OF THE TRENCH CUT TO THE CONCRETE IMPROVEMENT, OR EDGE OF PAVING. 3. RELATIVE COMPACTION SHALL BE PREPARED PER APPLICABLE COUNTY STANDARDS AND TESTING PERFORMED BY CALIFORNIA TEST METHOD 216 AND 231 AS DETERMINED BY THE COUNTY. 4. NO JETTING IS ALLOWED.		RELATIVE COMPACTION — — — — — 90 % RELATIVE		HMA
DESIGNED		RELATIVE COMPACTION		HMA
AND RESURFACING	0.15' COLD PLANE 0.15' COLD P	RELATIVE COMPACTION 90 % RELATIVE COMPACTION TE PG 64-10 TWEEN THE E EDGE OF PAVI TE PAVEMENT IMPROVEMENT E PREPARED P ORMED BY CAL	EDGE OF A TREN ING, THEN REMO FROM THE EDG T, OR EDGE OF I PER APPLICABLE	ICH CUT AND 24" 24"
	0.15' COLD PLANE         1.15' COLD PLANE	RELATIVE COMPACTION 90 % RELATIVE COMPACTION ETE PG 64-10 ETWEEN THE E EDGE OF PAVI TE PAVEMENT IMPROVEMENT IMPROVEMENT E PREPARED P DRMED BY CAL COUNTY.	EDGE OF A TREN ING, THEN REMO FROM THE EDG T, OR EDGE OF I PER APPLICABLE IFORNIA TEST N	ICH CUT AND 24" 24" 24" 24" 24" 24" 24" 24" 24" 24"

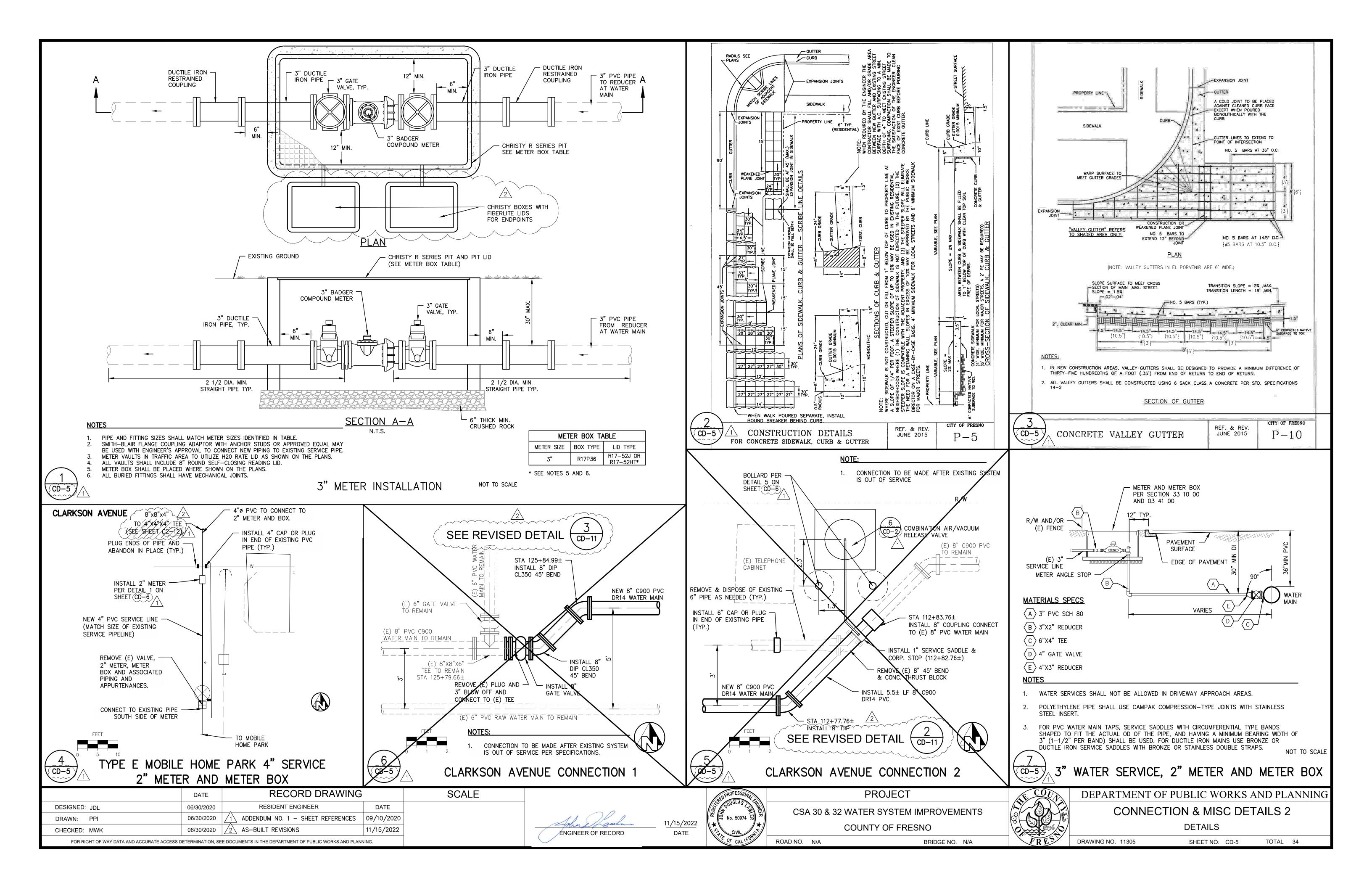
DEPARTMENT OF PUBLIC WORKS AND PLAINING **CONSTRUCTION DETAILS 3** DETAILS 

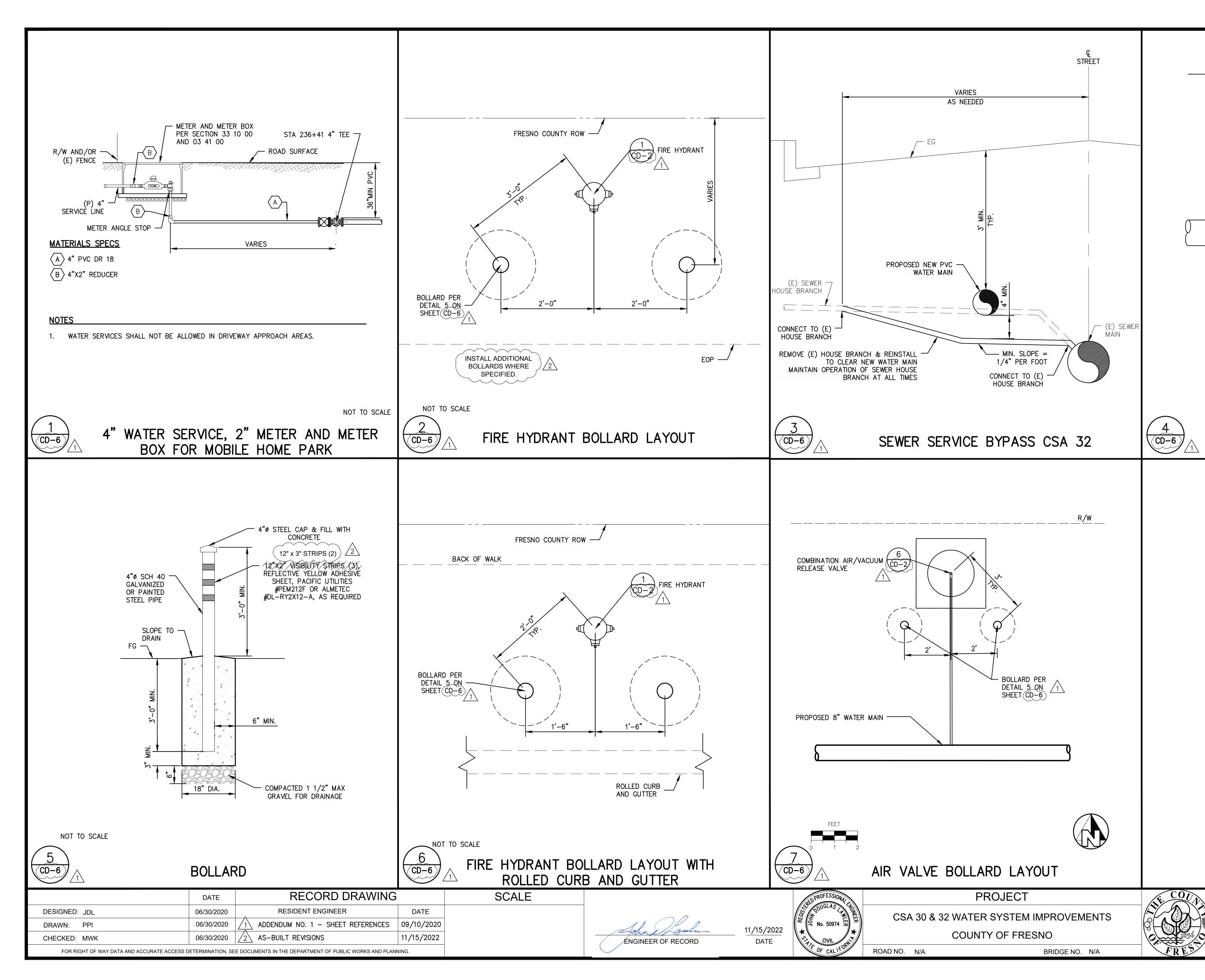
TOTAL 34

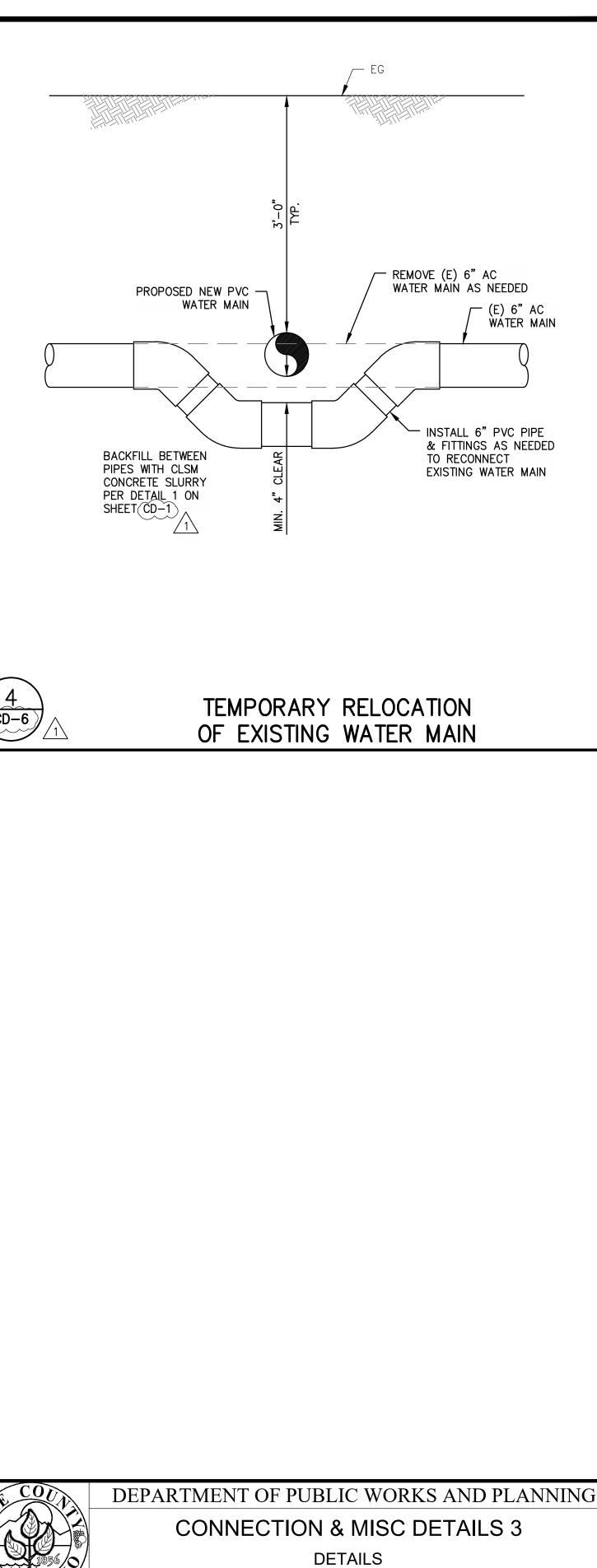
DRAWING NO. 11305 SHEET NO. CD-3

RE



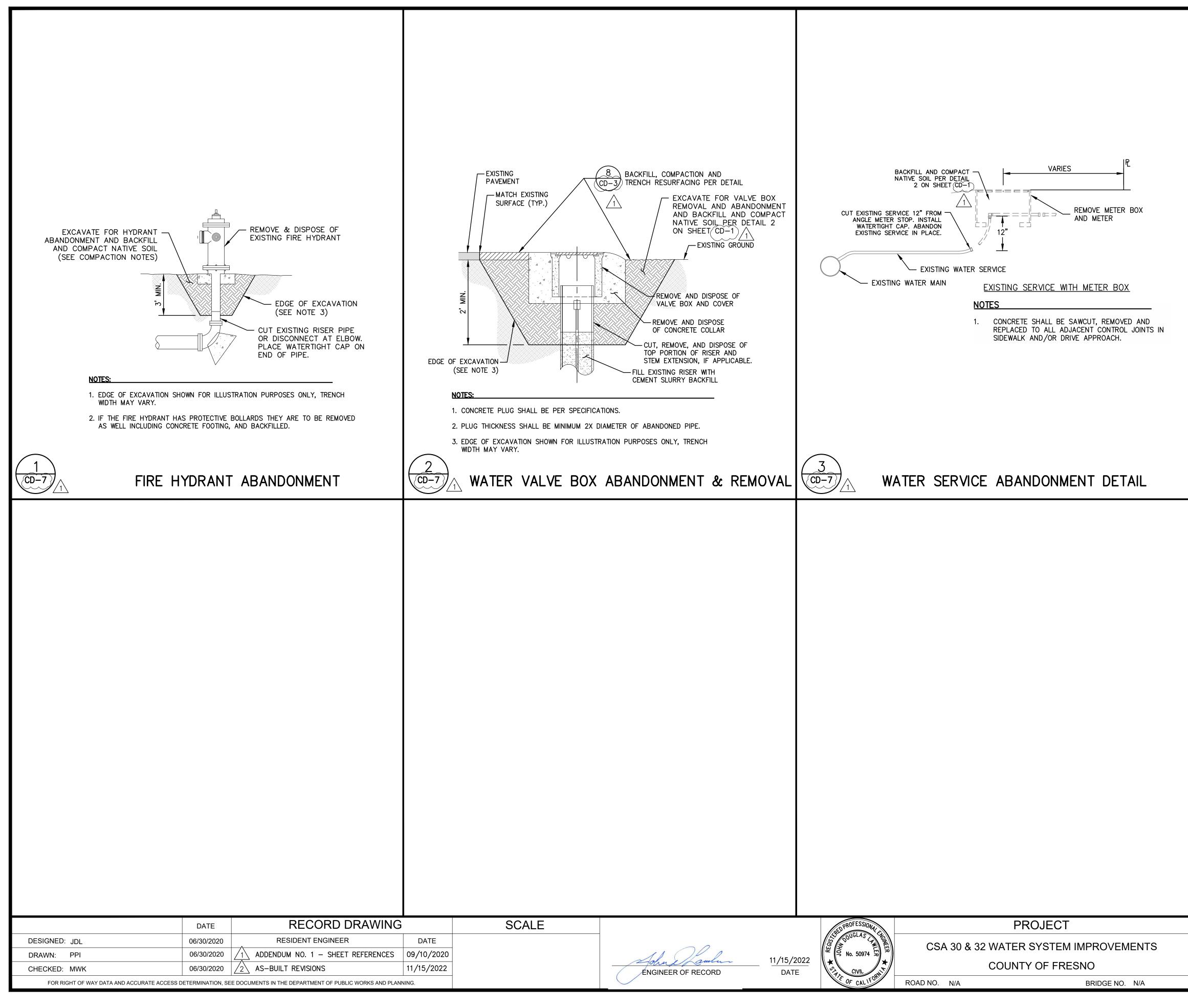






DRAWING NO. 11305

SHEET NO. CD-6



### WATER SYSTEM ABANDONMENT NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT NEW WATER SYSTEM IMPROVEMENTS. AFTER THE NEW WATER SYSTEM HAS BEEN TESTED AND ACCEPTED BY THE COUNTY OF FRESNO, THE CONTRACTOR SHALL MAKE CONNECTIONS TO TANK SITES AND SCHOOL FIRST, AND THEN TO EXISTING WATER SERVICES.
- 2. THE CONTRACTOR SHALL CONNECT ALL NEW WATER SERVICES TO EXISTING LEAD LINES PER PLANS AND SPECS.
- 3. THE CONTRACTOR SHALL ABANDON ALL EXISTING WATER SERVICES PER DETAIL 3 ON DRAWING CD-7 AT THE TIME CONNECTION IS MADE TO THE NEW WATER SYSTEM.

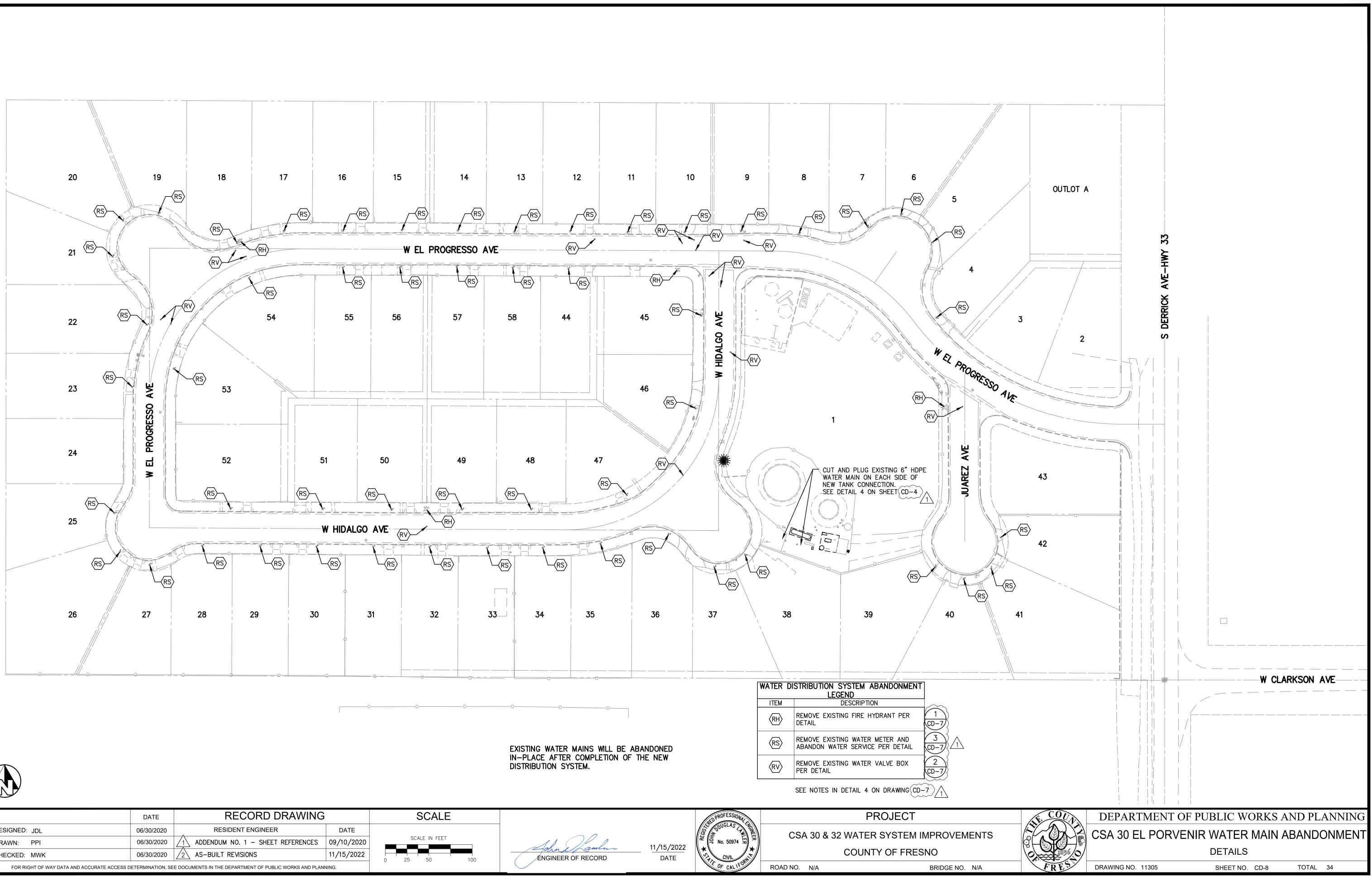




DEPARTMENT OF PUBLIC WORKS AND PLANNING ABANDONMENT DETAILS DETAILS

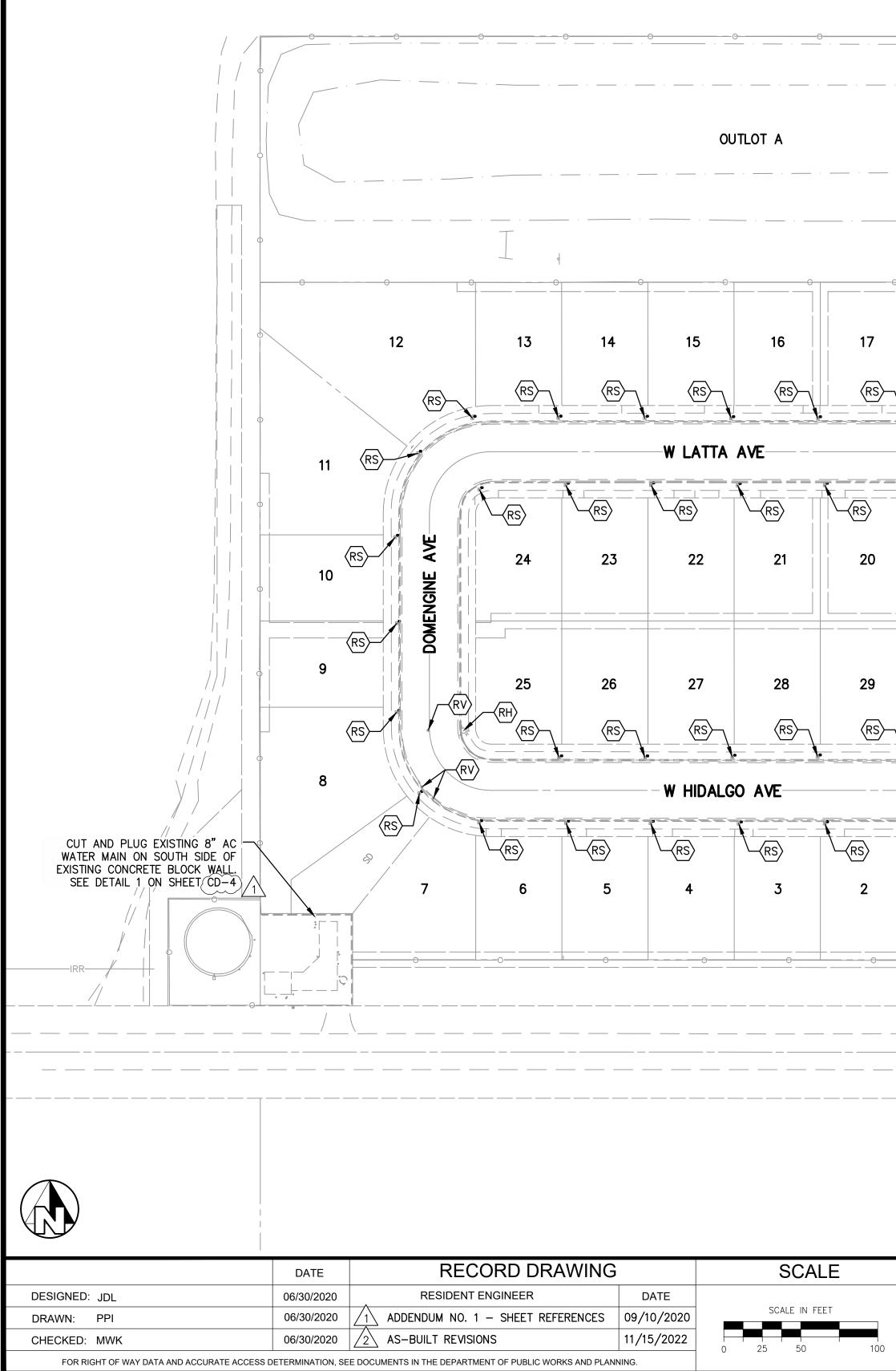
DRAWING NO. 11305

SHEET NO. CD-7





	DATE	RECORD DRAWING	SCALE	
DESIGNED: JDL	06/30/2020	RESIDENT ENGINEER	DATE	
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 – SHEET REFERENCES	09/10/2020	SCALE IN FEET
CHECKED: MWK	06/30/2020	2 AS-BUILT REVISIONS	11/15/2022	0 25 50 100
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS D	ETERMINATION, SE	E DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLAN	NING.	0 20 00 100



18 18		35	36	(RS)	38 RS RH		
18 RS RV RH RV RH RV 19	OUTLOT B			64 63 62 RS 62	S CHAPPO AVE	(RS)       65         (RS)       66         (RS)       67	
30 RS RV RS 34 30 RV RS 33 RV RS 33 RV RS 33 RV RS 33	59	60 RS		61		68 RV RH W H	6s
RS 32	58		57	56	55 °	54	53
EXISTING WATER MAINS WILL BE ABANDONED IN-PLACE AFTER COMPLETION OF THE NEW DISTRIBUTION SYSTEM.	∕E		ITEM (RH) (RS)	REMOVE EXISTING DETAIL REMOVE EXISTING	ND SCRIPTION FIRE HYDRANT F WATER METER A SERVICE PER DE	PER 1 CD-7 ND 3 TAIL CD-7	SEE NOTE
Admahamhan 11/15/ ENGINEER OF RECORD DAT		*		32 WATER S	OF FRESNC		S

