

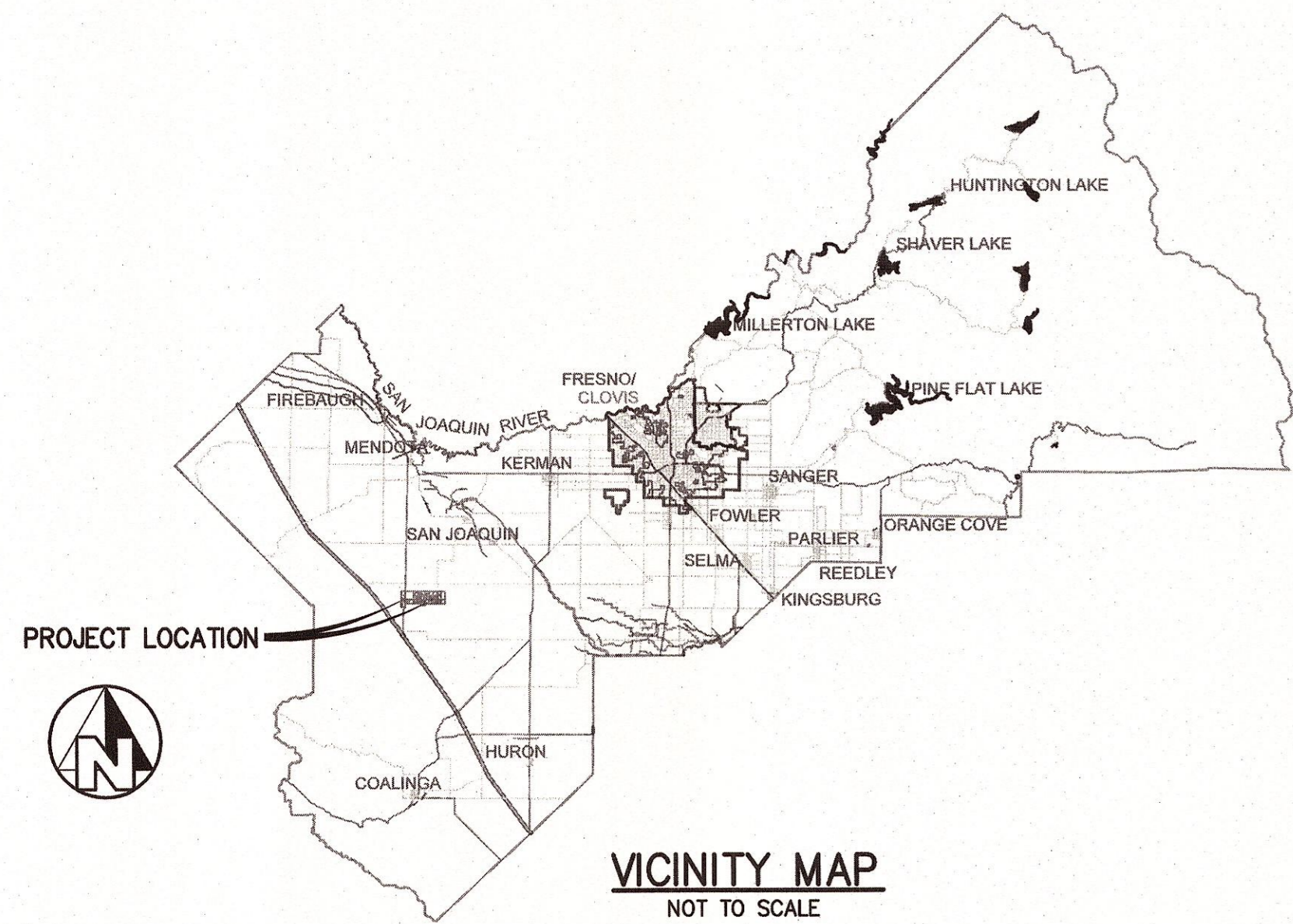
PLANS FOR CONSTRUCTION

COUNTY SERVICE AREAS 30 & 32

EL PORVENIR & CANTUA CREEK

STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

WATER SYSTEM IMPROVEMENTS



*AS BUILT PLANS
R.F. JASON AHUMADA
11-28-22*

UTILITY/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

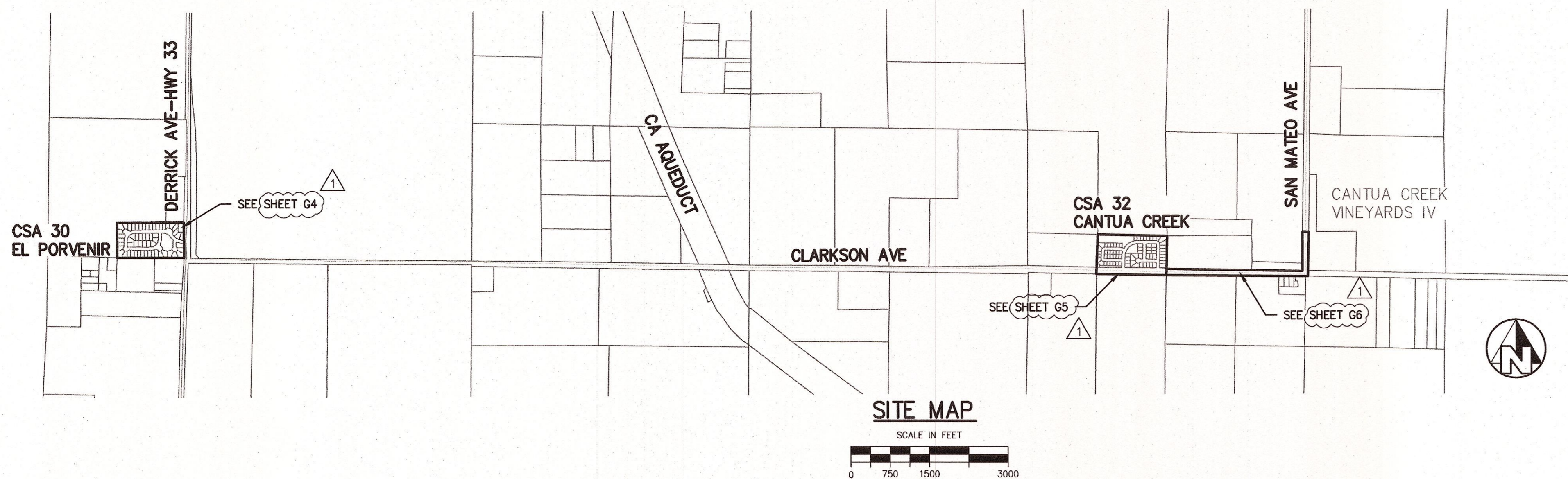
County of Fresno Board of Supervisors

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
County Administrative Officer

APPROVED
APPROVED

Steven E. White - Director
Department of Public Works and Planning
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	33

CONTRACT NO. 20-10-C

RECORD DRAWING	
NAME	TEICHERT CONSTRUCTION
ADDRESS	5777 TOYOTA PL FRESNO CA 93725
CITY	FRESNO
PHONE	559-813-3100
DATE AWARDED	02-23-2021
DATE STARTED	06-07-2021
DATE COMPLETED	05-17-2022
RESIDENT ENGINEER	
NAME	JASON AHUMADA
STATE	
NAME	



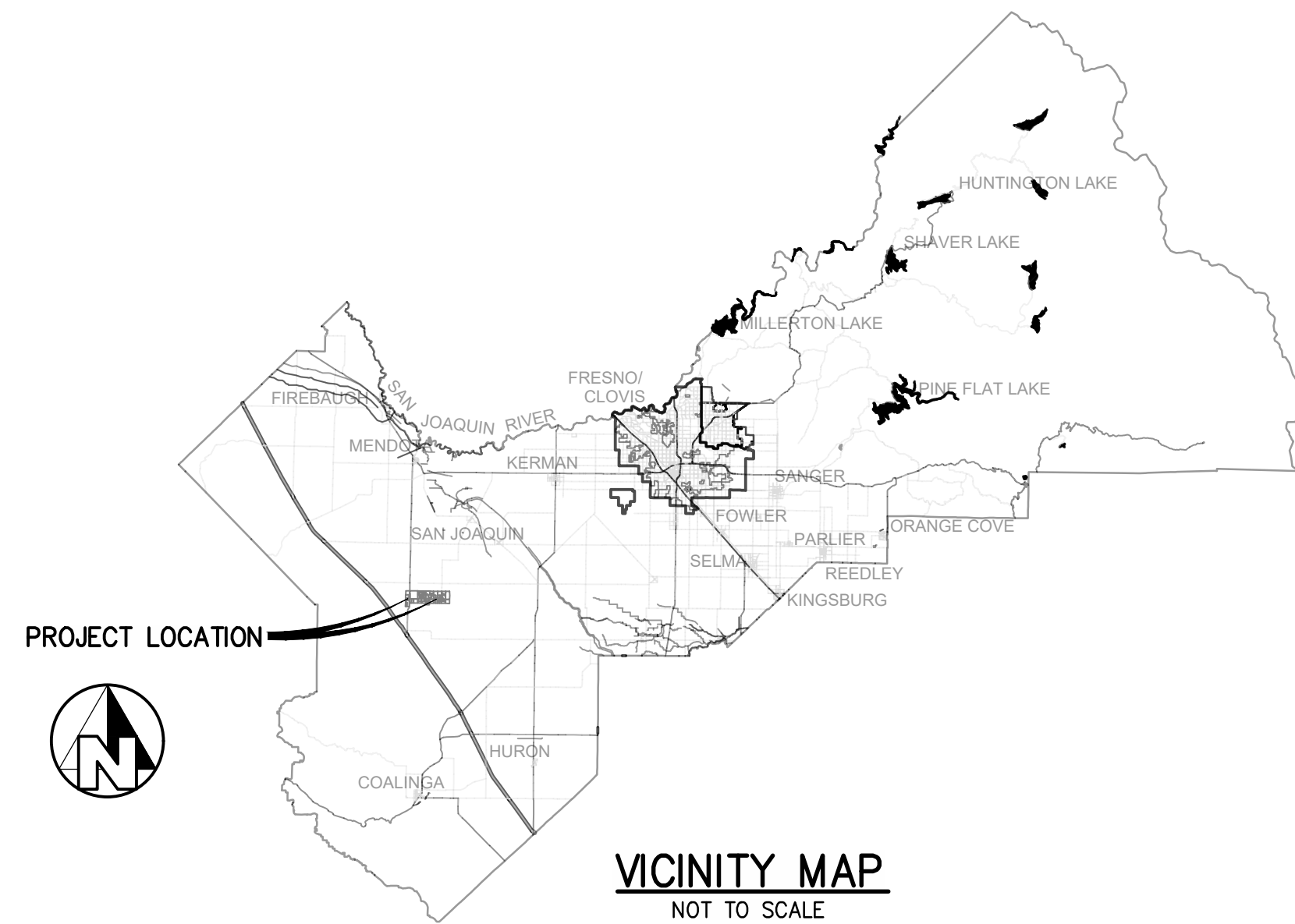
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EL PORVENIR & CANTUA CREEK

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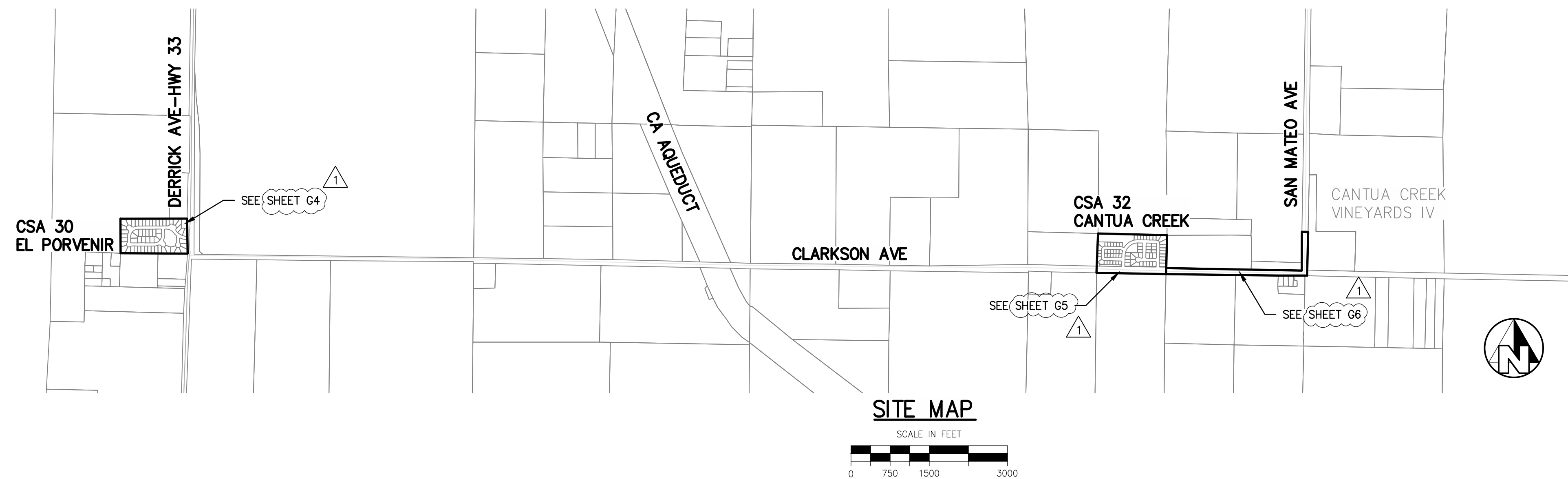
County of Fresno Board of Supervisors

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APPROVED _____

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



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DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11305		N/A		G1	34
CONTRACT NO. 20-10-C					

RECORD DRAWING		
NAME		
ADDRESS		
CITY	STATE	ZIP
PHONE		
DATE AWARDED		
DATE STARTED		
DATE COMPLETED		
RESIDENT ENGINEER		
NAME	SIGNATURE	
NAME	SIGNATURE	

2 AS-BUILT REVISIONS 11/15/2022

1 ADDENDUM NO. 1 - SHEET REFERENCES 9/10/2020



DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABBREVIATIONS		LINETYPES		HATCHES		SYMBOLS	
AB	AGGREGATE BASE	PT	POINT	EXISTING	NEW	EXISTING	NEW
AC	ASPHALT CONCRETE, ASBESTOS CONCRETE	PVC	POLYVINYL CHLORIDE	123			
AGG	AGGREGATE	PWMT	PAVEMENT				
AHD	AHEAD	R	RADIUS				
AF	ANGLE POINT	RD	ROAD				
APPROX	APPROXIMATE	RE	REFERENCE				
APN	ASSESSOR'S PARCEL NUMBER	REQD	REQUIRED				
ARV	AIR RELIEF VALVE	REV	REVISION				
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	RGS	RIGID GALVANIZED STEEL				
AV	AIR VALVE	R, RT	RIGHT				
AVE	AVENUE	R/W	RIGHT OF WAY				
AWWA	AMERICAN WATER WORKS ASSOCIATION	(S)	SOUTH, SOLVENT WELD				
BK	BACK	S=	SLOPE				
BLDG	BUILDING	SCH	SCHEDULE				
BM	BENCHMARK	SD	STORM DRAIN				
BO	BLOW-OFF	SDMH	STORM DRAIN MANHOLE				
BOL	BOLLARD	SEC	SECTION				
C, CONC	CONCRETE	SERV	SERVICE				
CA	CALIFORNIA	SF	SQUARE FEET				
CAV	COMBINATION AIR VALVE	SPEC	SPECIFICATION				
CFS	CUBIC FEET PER SECOND	SS	SANITARY SEWER				
C&G	CURB & GUTTER	SS OR STS	STAINLESS STEEL				
CHK	CHECK	SSMH	SANITARY SEWER MANHOLE				
CHLK	CHAIN LINK	STA	STATION				
CL	CLASS	STD	STANDARD				
CL	CENTERLINE	STL	STEEL				
CLR	CLEAR, CLEARANCE	STRC	STRUCTURE				
CNS	COMPACTED NATIVE SOIL	SWL	SWALE				
CO	SEWER CLEAN OUT	TC	TOP OF CURB				
CON	CONNECTION	T, TEL, TELE	TELEPHONE				
CONT	CONTINUOUS	TFC	TOP FACE OF CURB				
CONST	CONSTRUCT/CONSTRUCTION	TH	THREAD				
CP	CONTROL POINT	TRFC	TRAFFIC				
CTS	COPPER TUBING SIZE	TYP	TYPICAL				
CY	CUBIC YARDS	UG	UNDERGROUND				
DEMO	DEMOLISH/DEMOLITION	UP	UTILITY POLE				
DI	DUCTILE IRON	UT	UTILITY				
DIA, Ø	DIAMETER	VG	VALLEY GUTTER				
DIM	DIMENSION	(W)	WEST				
DIP	DUCTILE IRON PIPE	W	WATER				
DWG	DRAWING	WM	WATER METER, WATER MAIN				
(E)	EXISTING, EAST	WS	WATER SERVICE				
EA	EACH	WSP	WELDED STEEL PIPE				
EG	EXISTING GRADE	WV	WATER VALVE				
EL, ELEV	ELEVATION	WW	WASTE WATER				
ELEC	ELECTRICAL	WWD	WESTLANDS WATER DISTRICT				
EP, EOP	EDGE OF PAVEMENT	W/	WITH				
(F)	FUTURE	W/O	WITHOUT				
F&I	FURNISH & INSTALL						
FG	FINISHED GRADE						
FH	FIRE HYDRANT						
FL, FLGD	FLOW LINE						
FM	FLANGED						
FT	FOOT/FEET						
G	GAS						
GB	GRADE BREAK						
GA	GAUGE						
GAL	GALLON						
GALV	GALVANIZED						
GPM	GALLONS PER MINUTE						
GV	GATE VALVE						
HDPE	HIGH DENSITY POLYETHYLENE						
ID	INSIDE DIAMETER						
IN	INCH						
INV	INVERT						
IRR	IRRIGATION						
L, LT	LEFT						
LBS	POUNDS						
LF	LINEAL FEET						
MAX	MAXIMUM						
MB	MAILBOX						
MFR	MANUFACTURER						
MH	MANHOLE						
MIN	MINIMUM						
MISC	MISCELLANEOUS						
MJ	MECHANICAL JOINT						
MON	MONUMENT						
(N)	NORTH						
NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988						
NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929						
NO	NUMBER						
NPT	NATIONAL PIPE THREAD						
NTS	NOT TO SCALE						
OC	ON CENTER						
OD	OUTSIDE DIAMETER						
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION						
(P)	PROPOSED						
P, P/L	PROPERTY LINE						
PRV	PRESSURE REDUCING VALVE						
PSF	POUNDS PER SQUARE FOOT						
PSI	POUNDS PER SQUARE INCH						

ITEM	DESCRIPTION	CD
AV	INSTALL COMBINATION AIR VALVE PER DETAIL	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
BSS	INSTALL BACTERIOLOGICAL SAMPLING STATION PER DETAIL	3 CD-4
F	REMOVE ABANDONED AC WATER MAIN AS NECESSARY AND PLUG BOTH EXPOSED ENDS OF ABANDONED WATER MAIN.	4 CD-6
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

ITEM	DESCRIPTION	CD
A	INSTALL 1" WATER SERVICE, METER & BOX IN LANDSCAPE AREA	5 CD-2, 3 CD-1
B	INSTALL 1" WATER SERVICE, METER & BOX IN SIDEWALK AREA	5 CD-2, 6 CD-1
C	INSTALL 3" WATER SERVICE, 2" METER & BOX	7 CD-5
D	INSTALL 3" WATER SERVICE, METER & BOX	1 CD-5
E	INSTALL 4" WATER SERVICE, 2" METER & BOX	1 CD-6

NOTE: WATER METERS NOT INSTALLED AT VACANT LOTS - SERVICES & EMPTY BOXES ONLY.

PIPE FITTINGS

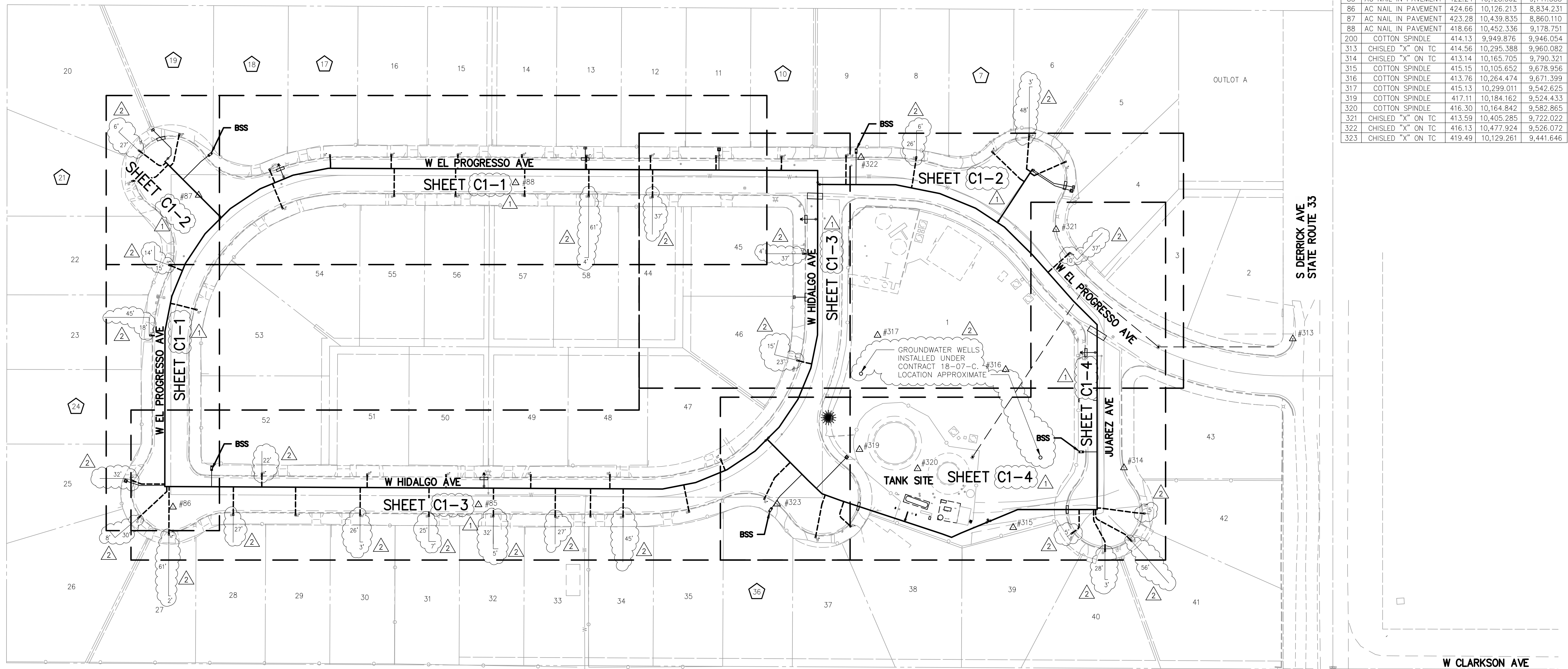
- FLANGED JOINT
- MECHANICAL JOINT

SYMBOLS

- REVISION
- CONSTRUCTION CALLOUT
- DETAIL NUMBER SHEET NUMBER
- DETAIL CALLOUT
- LINE BREAK
- PIPE END (SCHEMATIC)
- PIPE END
- EMBANKMENT ARROW
- HWL = XXX.XX
- SPOT ELEVATION
- SECTION VIEW

DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING	SCALE	PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	CIVIL LEGEND
CHECKED: MWK	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022	COUNTY OF FRESNO	GENERAL
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		AS-BUILT REVISIONS	DATE	ROAD NO. N/A	DRAWING NO. 11305
				BRIDGE NO. N/A	SHEET NO. G3
					TOTAL 34

SURVEY CONTROL POINTS				
PT #	DESCRIPTION	ELEV	NORTHING	EASTING
85	AC NAIL IN PAVEMENT	422.24	10,128.562	9,141.388
86	AC NAIL IN PAVEMENT	424.66	10,126.213	8,834.231
87	AC NAIL IN PAVEMENT	423.28	10,439.835	8,860.110
88	AC NAIL IN PAVEMENT	418.66	10,452.336	9,178.751
200	COTTON SPINDLE	414.13	9,949.876	9,946.054
313	CHISLED "X" ON TC	414.56	10,295.388	9,960.082
314	CHISLED "X" ON TC	413.14	10,165.705	9,790.321
315	COTTON SPINDLE	415.15	10,105.652	9,678.956
316	COTTON SPINDLE	413.76	10,264.474	9,671.399
317	COTTON SPINDLE	415.13	10,299.011	9,542.625
319	COTTON SPINDLE	417.11	10,184.162	9,524.433
320	COTTON SPINDLE	416.30	10,164.842	9,582.865
321	CHISLED "X" ON TC	413.59	10,405.285	9,722.022
322	CHISLED "X" ON TC	416.13	10,477.924	9,526.072
323	CHISLED "X" ON TC	419.49	10,129.261	9,441.646



32' PRIVATE ON-SITE LATERAL REPLACEMENTS & LENGTHS

LOTS THAT HAD SIGNED AGREEMENTS, BUT DIDN'T GET PRIVATE LINES.

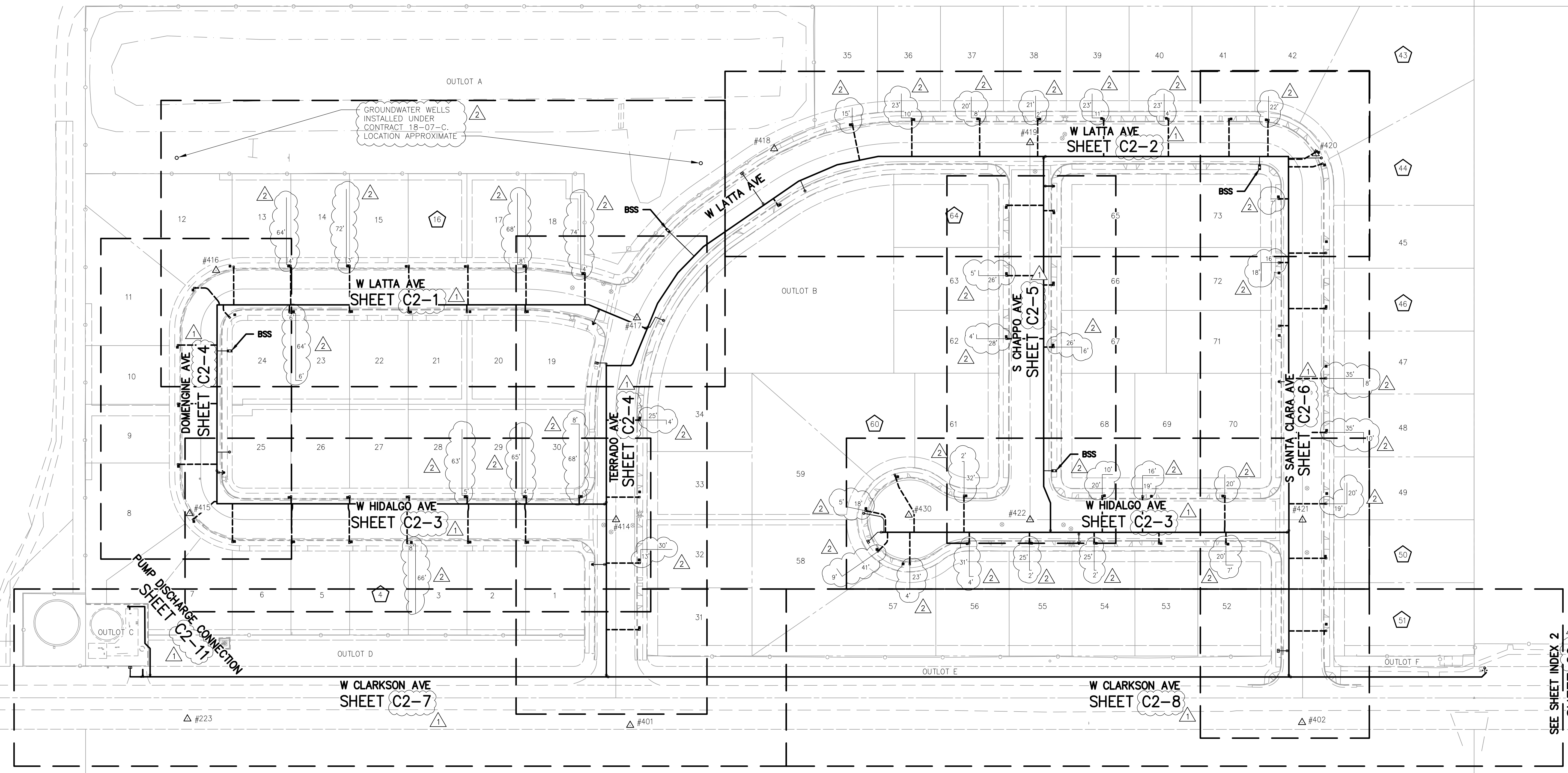


DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020		 ENGINEER OF RECORD		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022				COUNTY OF FRESNO		EL PORVENIR INDEX SHEET
CHECKED: MWK	DATE: 06/30/2020	AS-BUILT REVISIONS	DATE:				COUNTY OF FRESNO		GENERAL
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11305	SHEET NO. G4	TOTAL 34	

△ 32' PRIVATE ON-SITE LATERAL REPLACEMENTS & LENGTHS

△ LOTS THAT HAD SIGNED AGREEMENTS, BUT DIDN'T GET PRIVATE LINES.

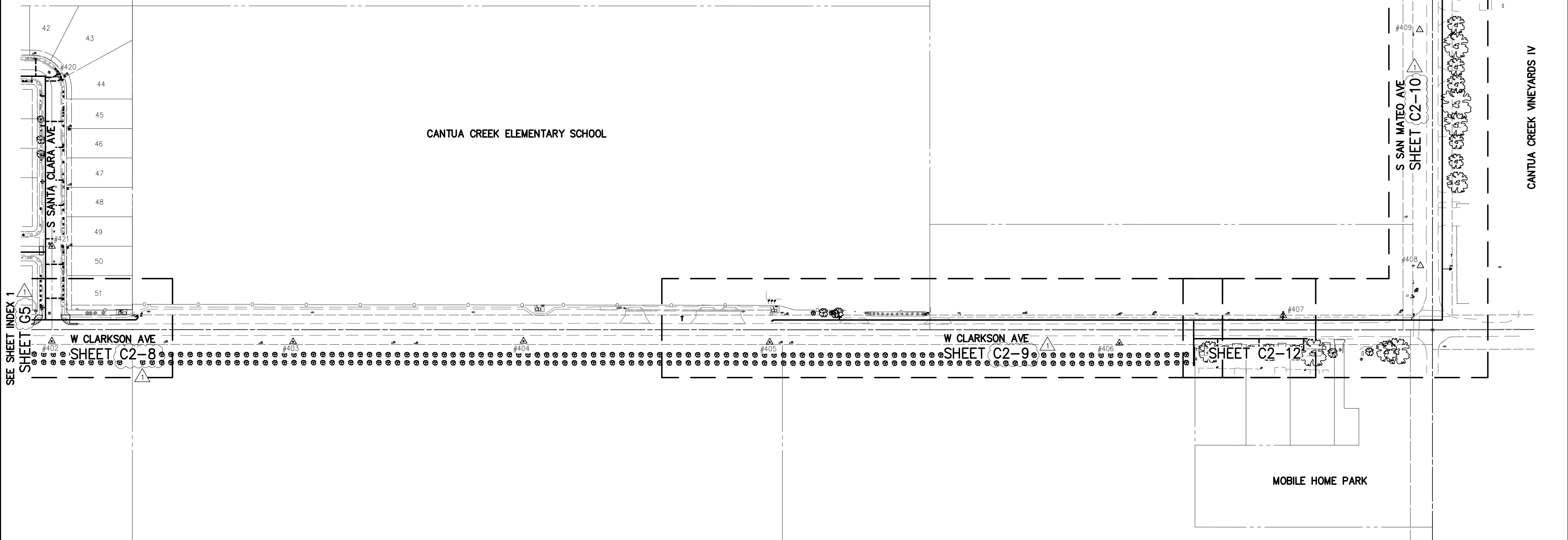
△ SEE SHEET G6 FOR SURVEY CONTROL POINT DATA



DESIGNED: JDL DRAWN: PPI CHECKED: MWK		DATE: 06/30/2020 RESIDENT ENGINEER ADDENDUM NO. 1 - SHEET REFERENCES AS-BUILT REVISIONS	DATE: 09/10/2020 11/15/2022	SCALE SCALE IN FEET 	 ENGINEER OF RECORD DATE: 11/15/2022		PROJECT CSA 30 & 32 WATER SYSTEM IMPROVEMENTS COUNTY OF FRESNO ROAD NO. N/A BRIDGE NO. N/A		DEPARTMENT OF PUBLIC WORKS AND PLANNING CANTUA CREEK INDEX SHEET 1 GENERAL DRAWING NO. 11305 SHEET NO. G5 TOTAL 34
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FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SURVEY CONTROL POINTS				
PT #	DESCRIPTION	ELEV	NORTHING	EASTING
223	REBAR WITH CAP	300.29	9,918.325	27,529.225
401	REBAR WITH CAP	298.47	9,912.254	27,951.762
402	REBAR WITH CAP	297.45	9,914.942	28,592.982
403	REBAR WITH CAP	296.01	9,913.535	29,084.755
404	REBAR WITH CAP	295.33	9,914.904	29,554.457
405	REBAR WITH CAP	294.48	9,913.071	30,056.224
406	REBAR WITH CAP	293.38	9,910.884	30,768.968
407	REBAR WITH CAP	292.45	9,967.180	31,102.859
408	REBAR WITH CAP	290.69	10,068.539	31,382.593
409	REBAR WITH CAP	289.64	10,549.608	31,381.252
410	REBAR WITH CAP	288.52	11,133.741	31,383.175
414	BRASS CAP C MON.	299.85	10,108.457	27,938.291
415	CHISLED "X" ON TC	300.35	10,114.307	27,531.474
416	CHISLED "X" ON TC	299.69	10,346.372	27,556.561
417	BRASS CAP C MON.	299.00	10,301.131	27,958.187
418	CHISLED "X" ON TC	298.09	10,462.364	28,089.211
419	BRASS CAP C MON.	298.22	10,468.153	28,333.454
420	CHISLED "X" ON TC	298.66	10,457.639	28,606.017
421	BRASS CAP C MON.	298.84	10,108.184	28,593.435
422	BRASS CAP C MON.	299.21	10,108.322	28,333.433
430	CHISLED "X" ON MH RIM	299.37	10,112.792	28,217.618



DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	SCALE IN FEET		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		CANTUA CREEK INDEX SHEET 2
CHECKED: MWK	DATE: 06/30/2020	DATE: 11/15/2022			COUNTY OF FRESNO		GENERAL
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							
ROAD NO. N/A		BRIDGE NO. N/A		DRAWING NO. 11305		SHEET NO. G6 TOTAL 34	

CSA 30 - EL PORVENIR

CSA 30 - El Porvenir Subdivision
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 10+00.00 through 18+99.24 and 1+00.00 through 1+80.00.

El Progreso Avenue (East)

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 20+00.00 through 23+32.53.

Easterly Knuckle

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 2+00.00 and 2+64.00.

CSA 30 - El Porvenir Subdivision
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 30+00.00 through 39+03.39.

CSA 30 - El Porvenir Subdivision
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 40+00.00 through 43+67.26.

CSA 30 - El Porvenir Subdivision
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 49+90.02 and 51+75.88.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 60+00.00 through 64+14.87.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 64+88.05 through 71+65.98.

CSA 302 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 73+00.00 through 81+87.50.

Hidalgo Avenue (East)

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 78+00.00 through 81+87.50.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 83+00.00 and 84+89.69.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 86+00.00 through 89+58.72.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 90+00.00 through 93+59.84.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 94+00.00 through 98+96.56.

CSA 32 - Cantua Creek
Water Distribution System

Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 100+00.00 through 236+71.10.

CSA 32 - Cantua Creek
Water Distribution System

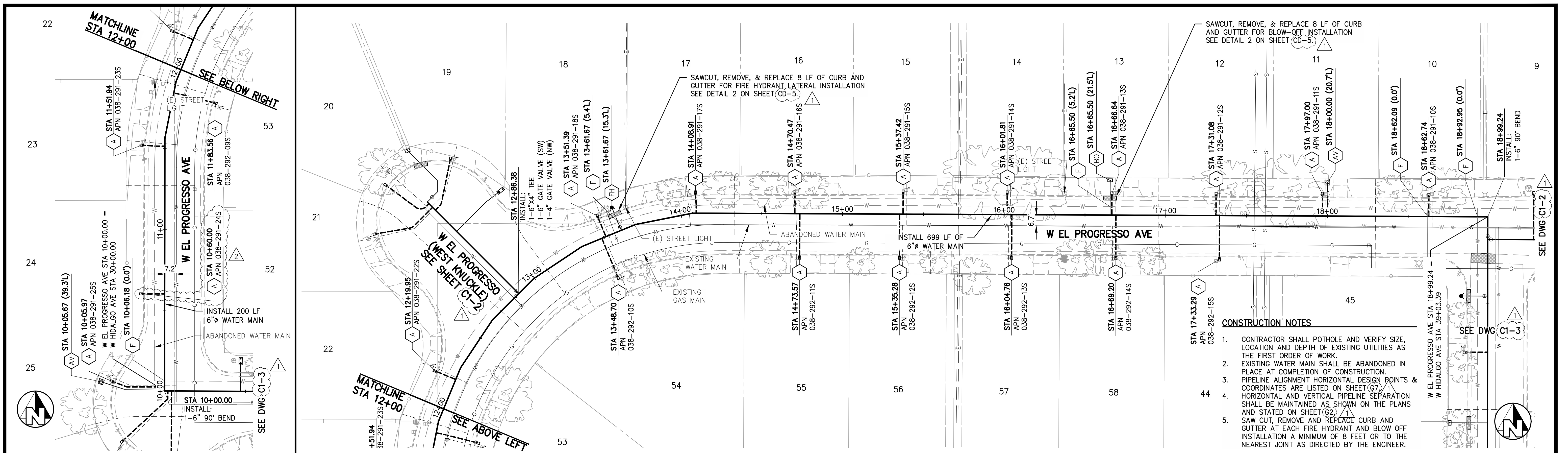
Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 139+47.67 and 146+35.75.

CSA 32 - Cantua Creek
Water Distribution System

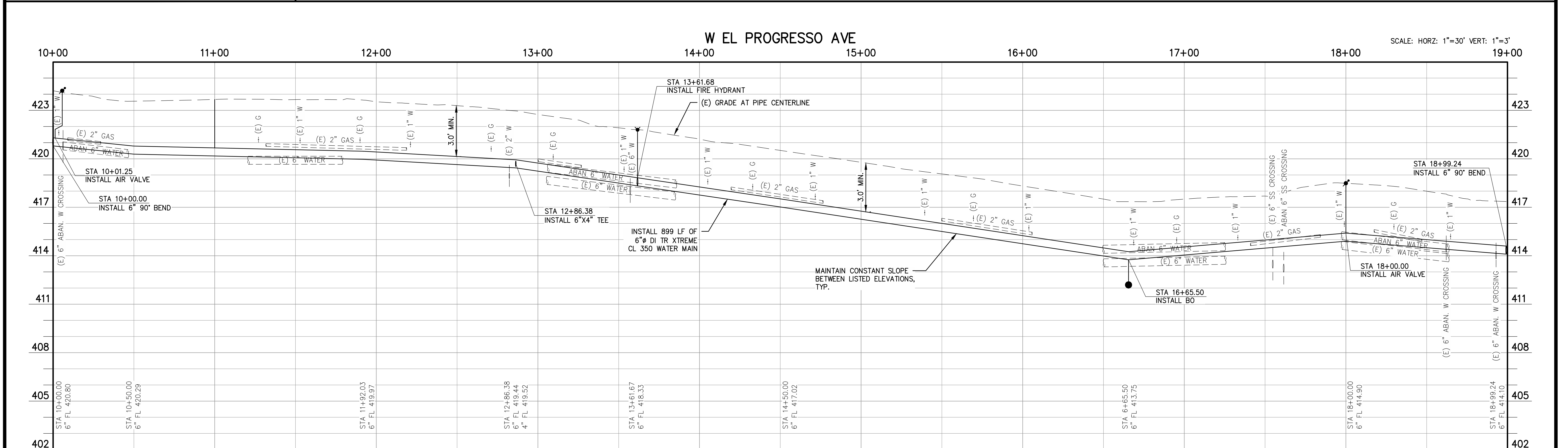
Table with 4 columns: Pipeline Station, Description, Coordinates (North, East). Rows include stations 4+14.98 through 5+00.00.

AS-BUILT REVISIONS. List of station and description changes for Santa Clara Avenue, Clarkston Avenue, and San Mateo Avenue.

SEE SHEET NO. G2 FOR BASIS OF BEARINGS AND COORDINATES.

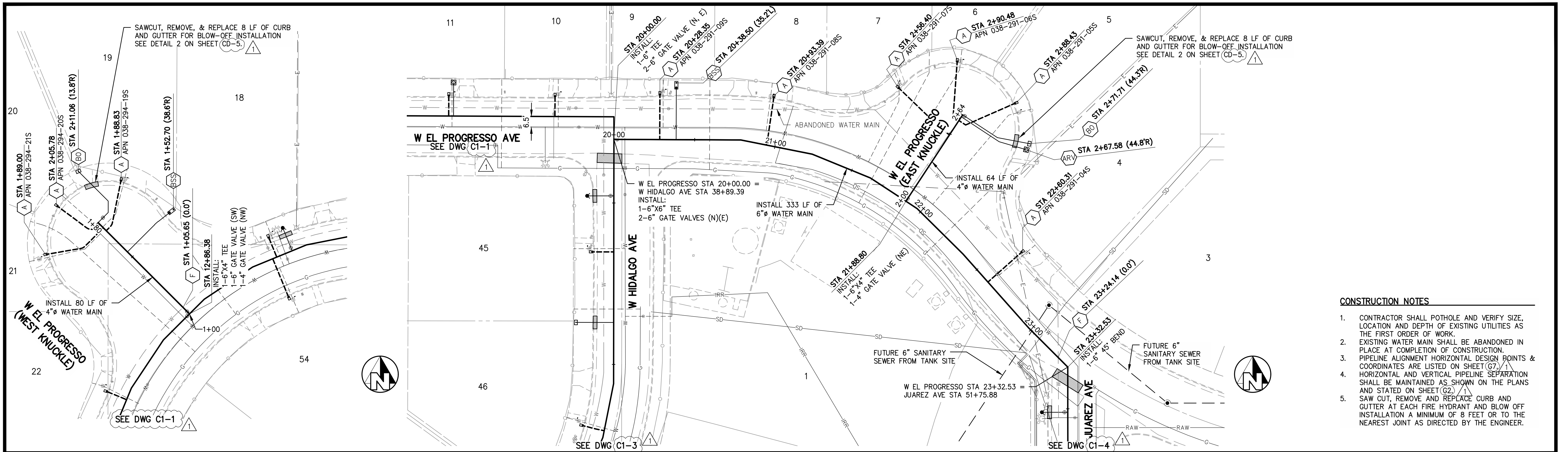


- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
 3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7).
 4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2).
 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.



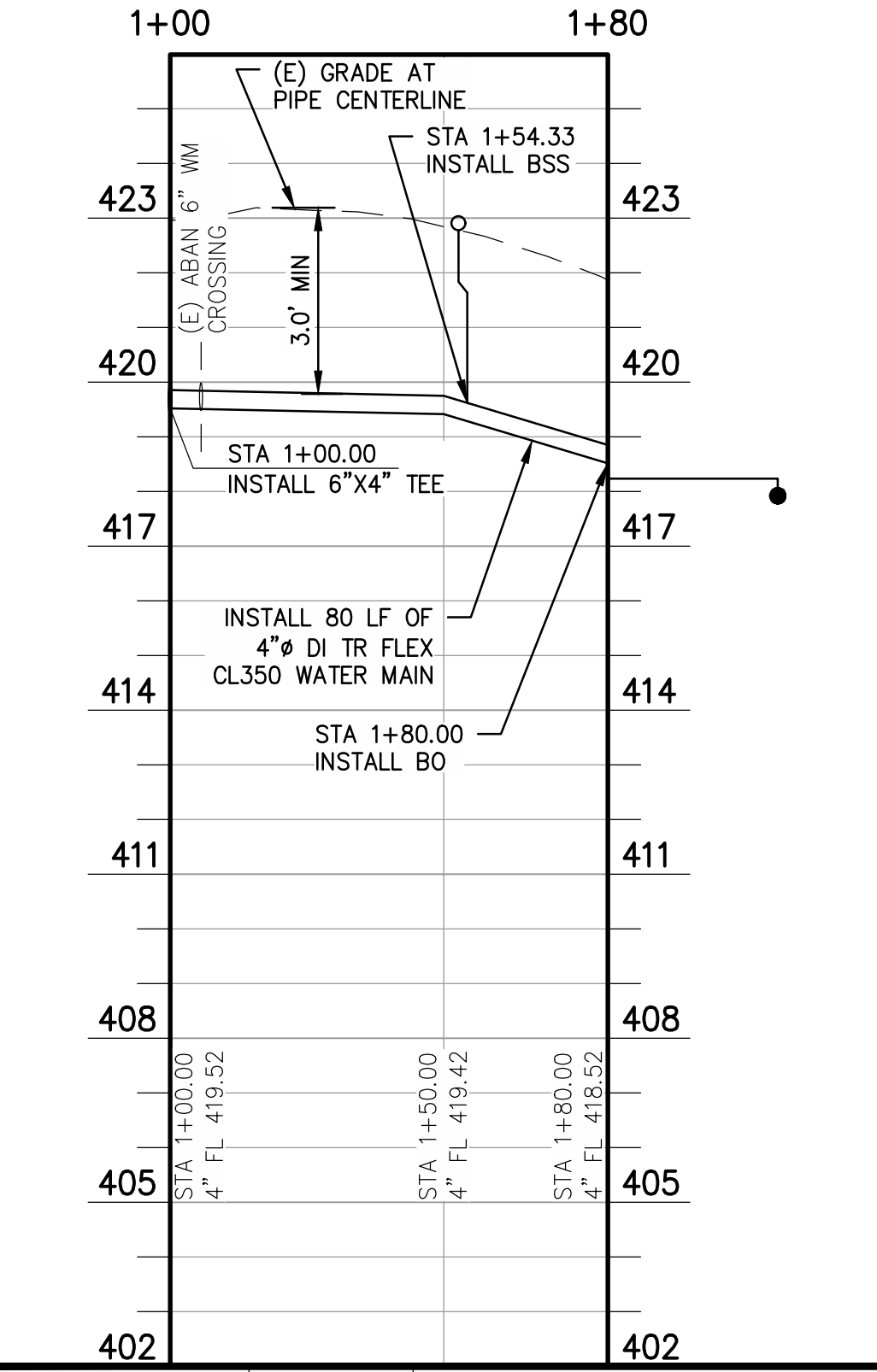
DESIGNED: JDL		DATE: 06/30/2020	RESIDENT ENGINEER		DATE: 09/10/2020
DRAWN: PPI		06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES		11/15/2022
CHECKED: MWK		06/30/2020	AS-BUILT REVISIONS		

DATE: 11/15/2022	ENGINEER OF RECORD: <i>John Douglas</i>	PROJECT: CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	DEPARTMENT OF PUBLIC WORKS AND PLANNING
SCALE: 1"=30'	ROAD NO.: N/A	COUNTY OF FRESNO	W EL PROGRESSO AVE STA 10+00 TO 18+99
	BRIDGE NO.: N/A		CSA 30 EL PORVENIR
		DRAWING NO. 11305	SHEET NO. C1-1
			TOTAL 34

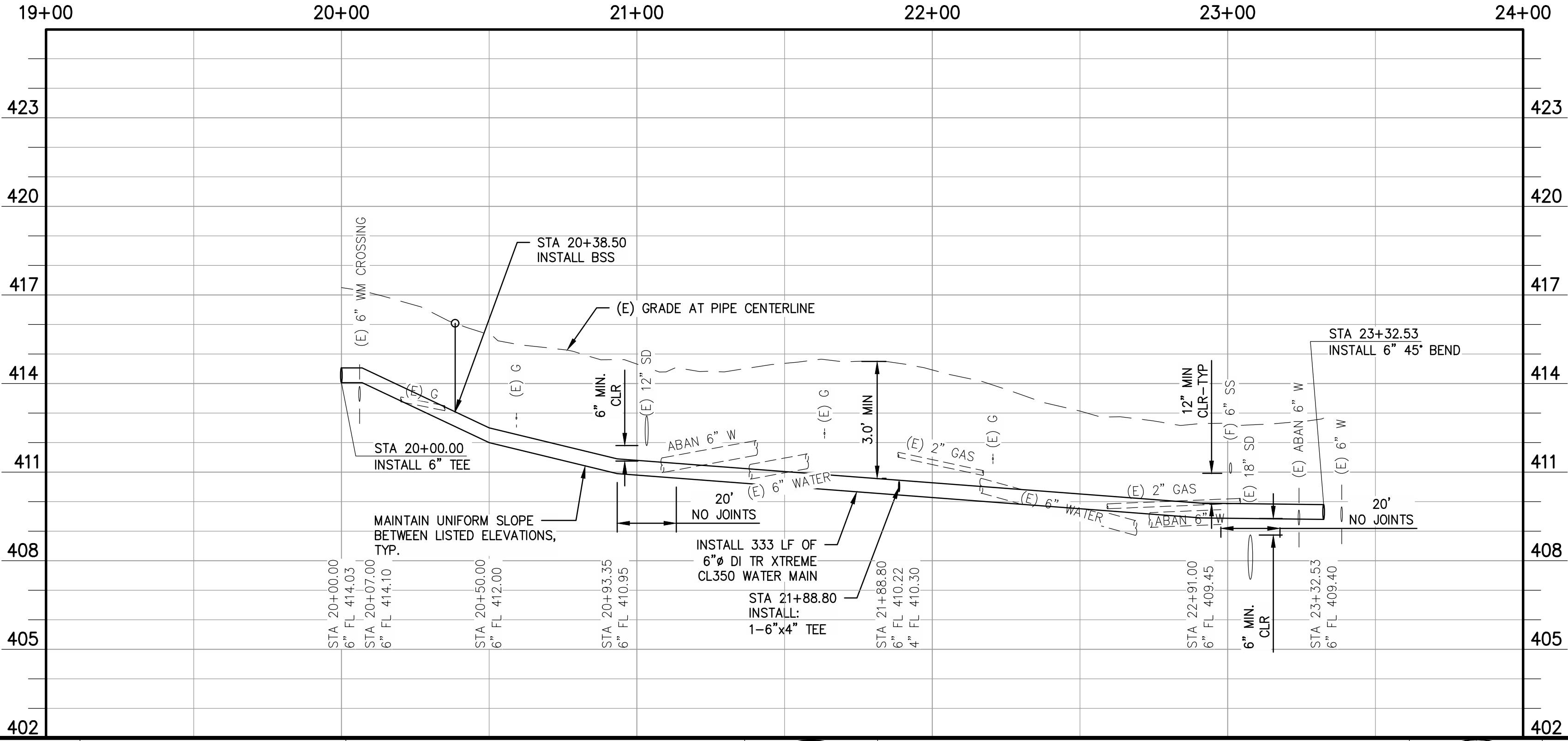


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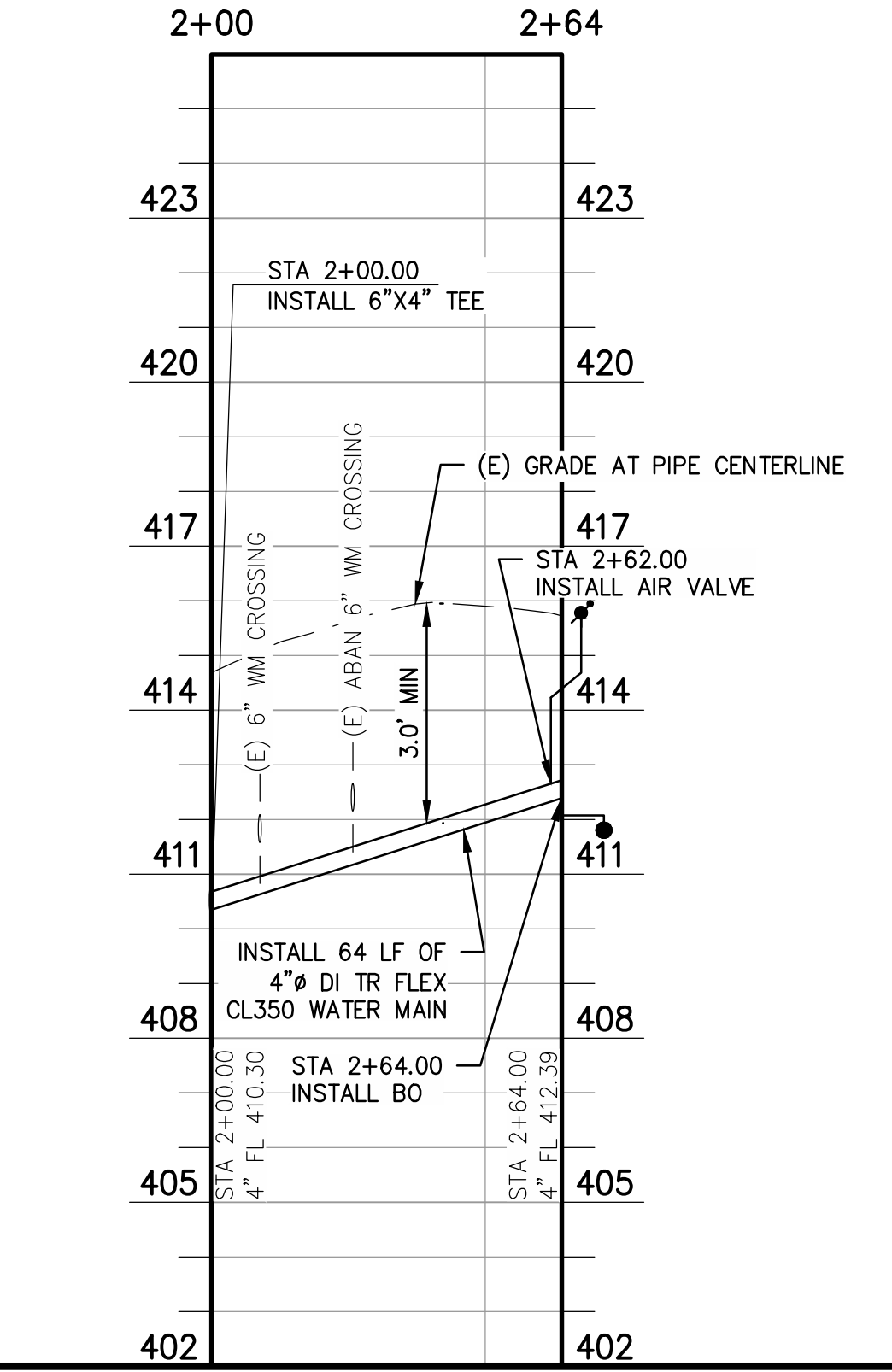
SCALE: HORZ: 1"=30' VERT: 1"=3'
EL PROGRESSO—WEST KNUCKLE



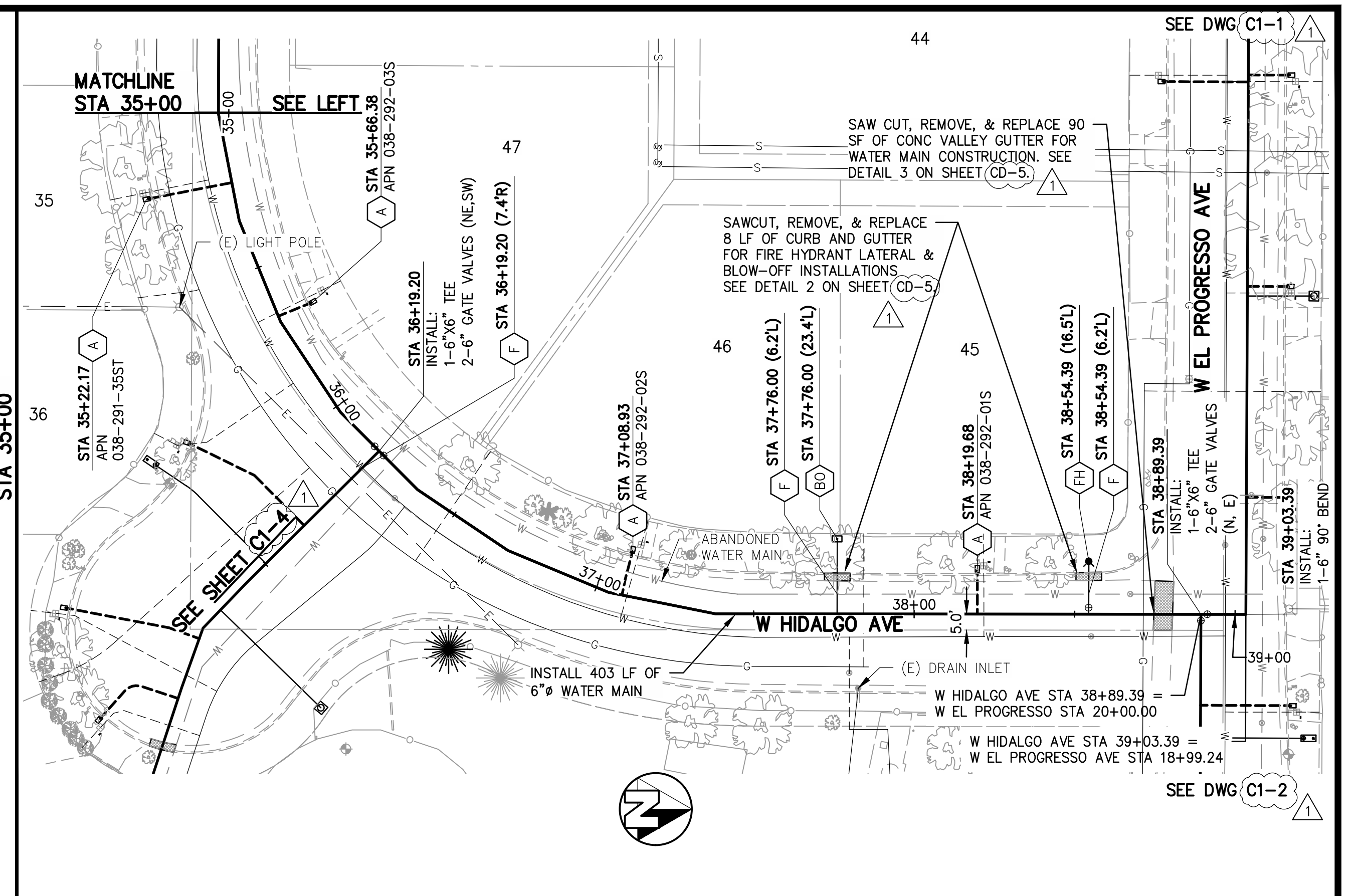
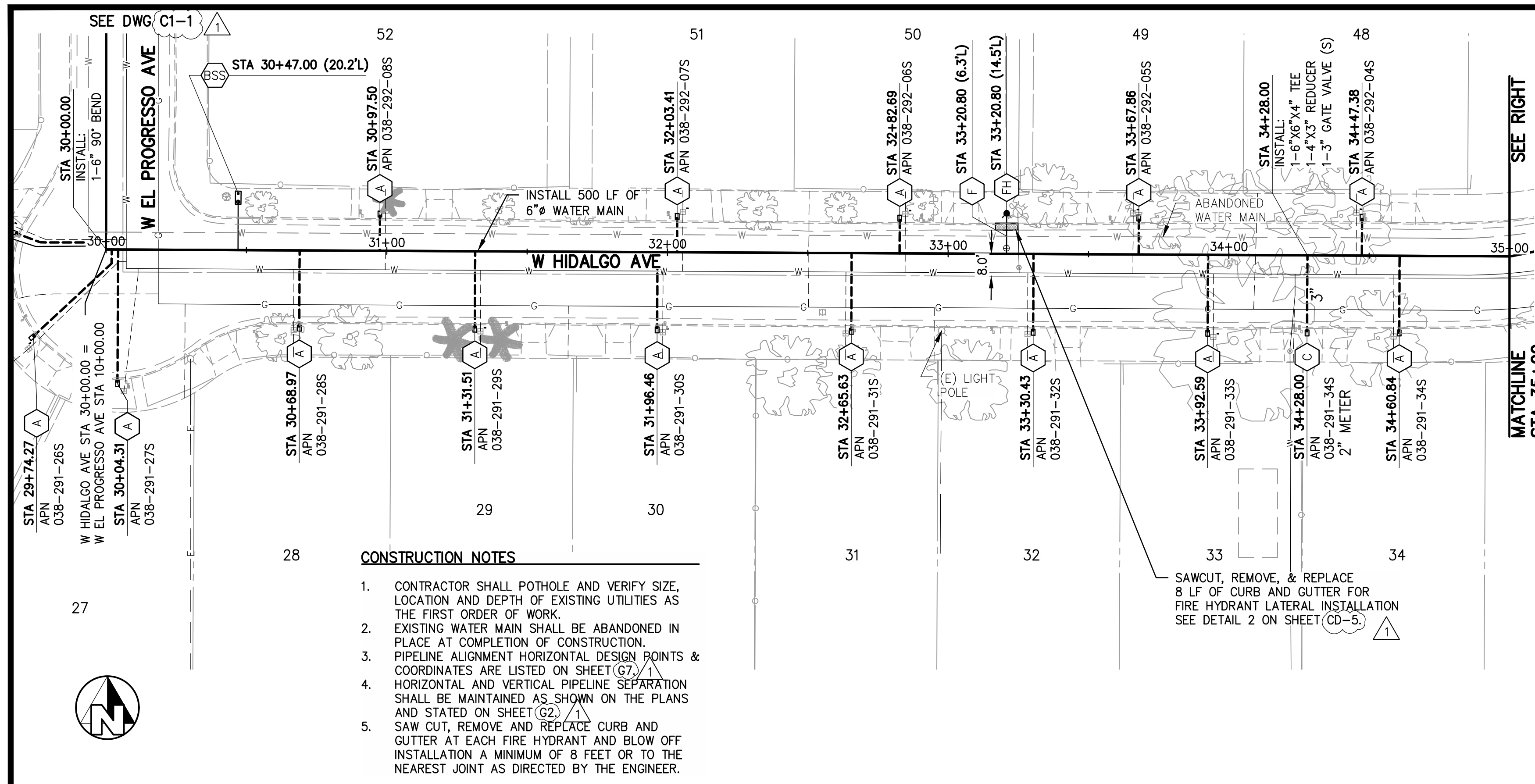
W EL PROGRESSO



SCALE: HORZ: 1"=30' VERT: 1"=3'
EL PROGRESSO—EAST KNUCKLE



DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		COUNTY OF FRESNO	W EL PROGRESSO AVE STA 20+00 TO END
CHECKED: MWK	06/30/2020	AS-BUILT REVISIONS	DATE		COUNTY OF FRESNO		ROAD NO. N/A	BRIDGE NO. N/A
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								



CONSTRUCTION NOTES

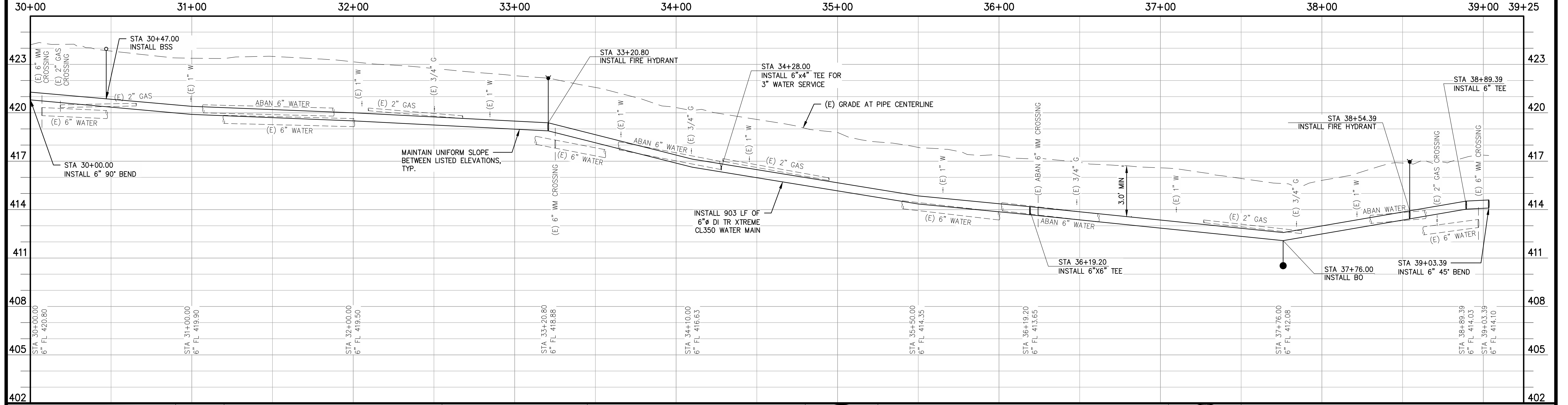
1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7).
4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2).
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.

SAWCUT, REMOVE, & REPLACE 8 LF OF CURB AND GUTTER FOR FIRE HYDRANT LATERAL INSTALLATION SEE DETAIL 2 ON SHEET (CD-5)

SAWCUT, REMOVE, & REPLACE 90 SF OF CONC VALLEY GUTTER FOR WATER MAIN CONSTRUCTION. SEE DETAIL 3 ON SHEET (CD-5)

SAWCUT, REMOVE, & REPLACE 8 LF OF CURB AND GUTTER FOR FIRE HYDRANT LATERAL & BLOW-OFF INSTALLATIONS SEE DETAIL 2 ON SHEET (CD-5)

W HIDALGO AVE



DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020
DRAWN: PPI	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022
CHECKED: MWK	DATE: 06/30/2020	AS-BUILT REVISIONS	

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE: HORIZ: 1"=30' VERT: 1"=3'

SCALE IN FEET: 0 15 30 60

ENGINEER OF RECORD: *John Douglas* 11/15/2022 DATE

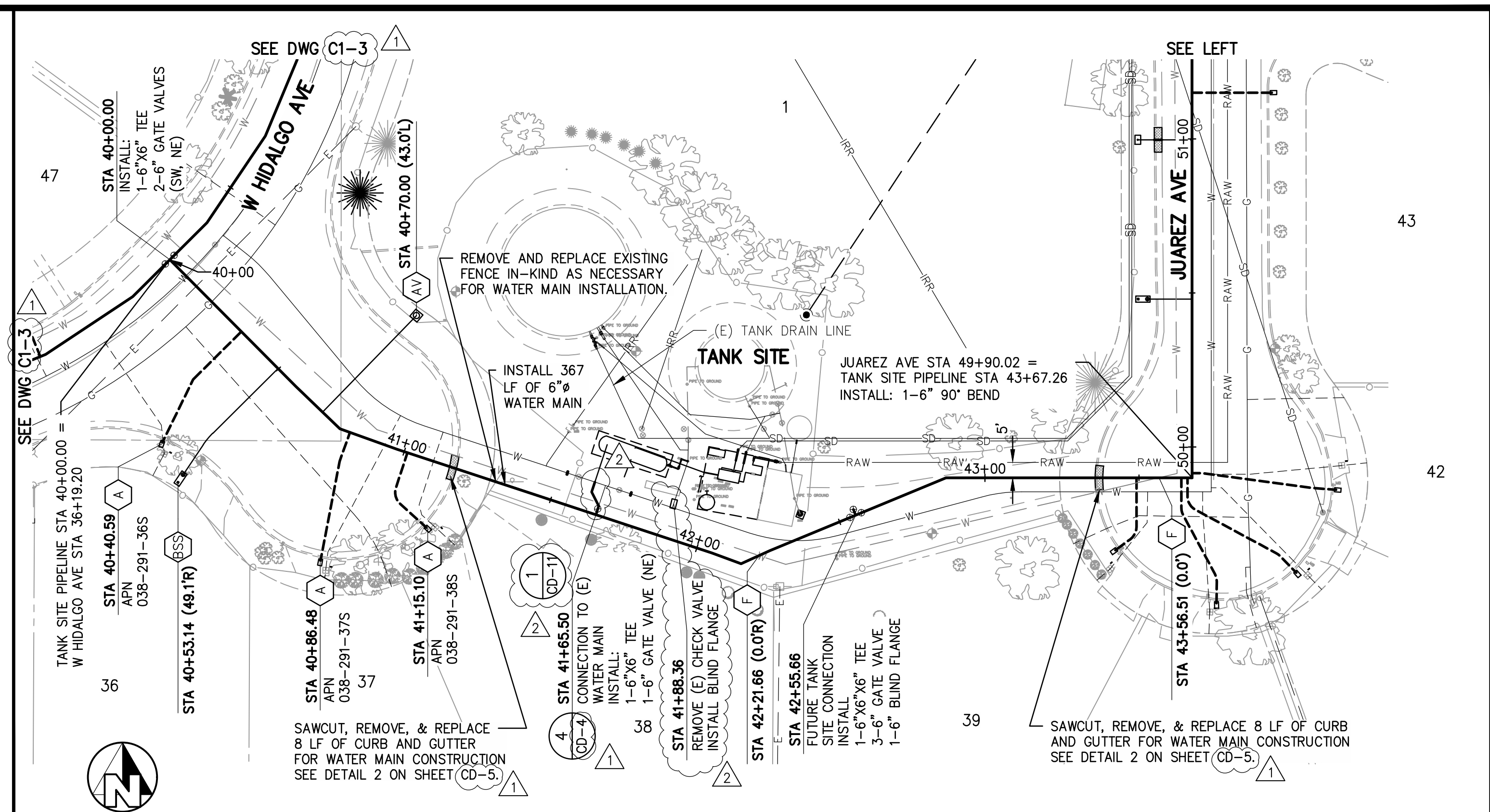
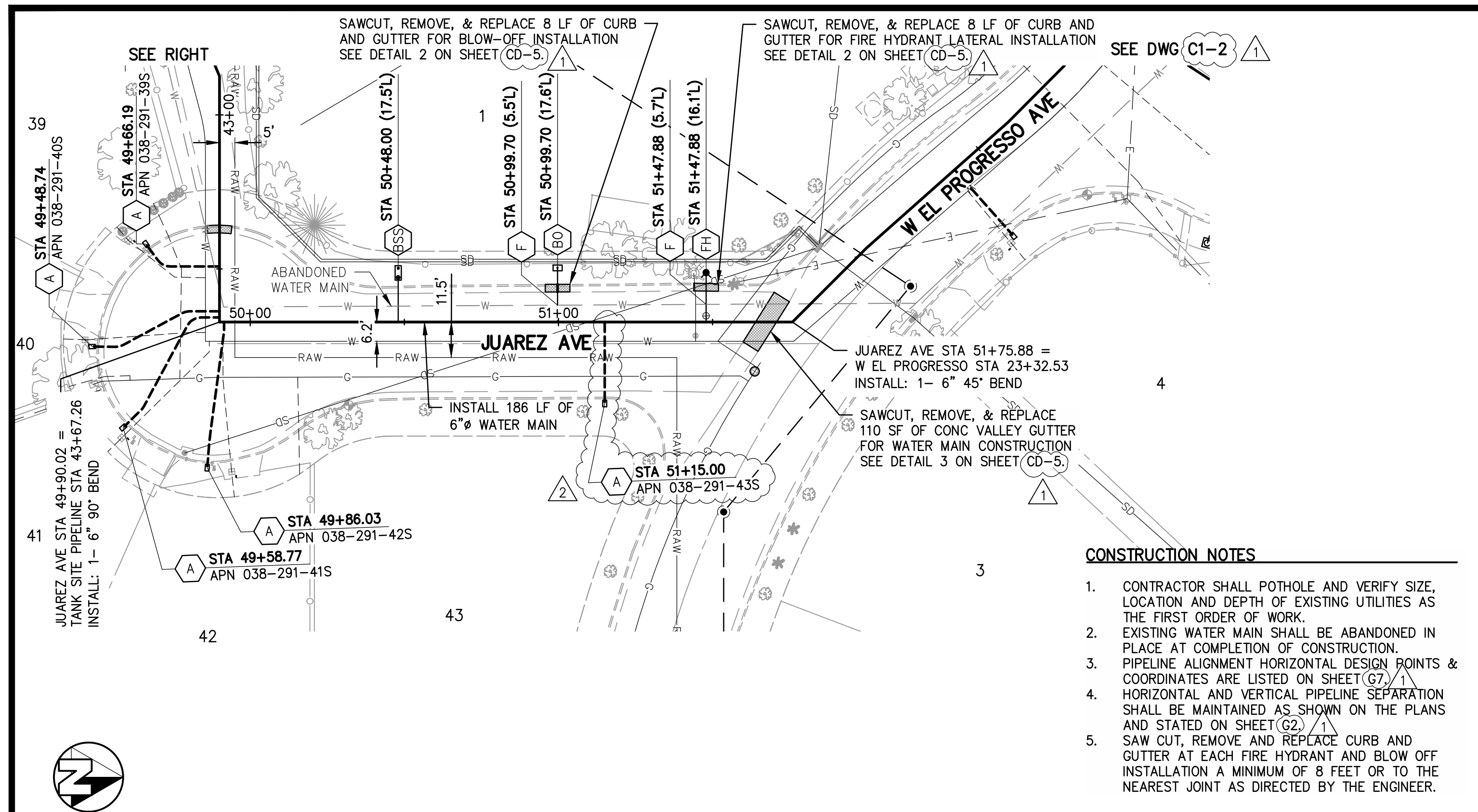
REGISTERED PROFESSIONAL ENGINEER
JOHN DOUGLAS
No. 50974
CIVIL
STATE OF CALIFORNIA

PROJECT: CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
COUNTY OF FRESNO

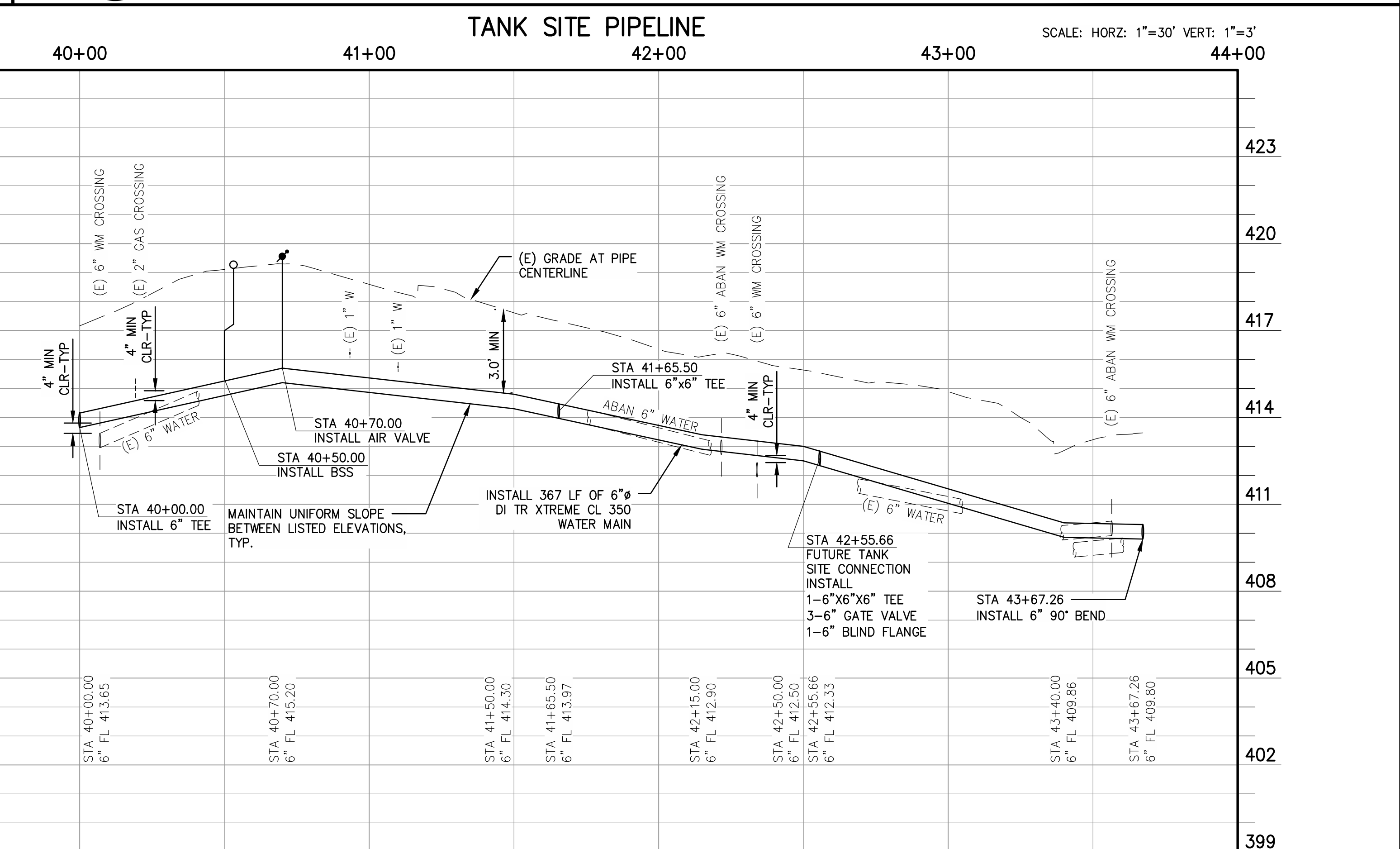
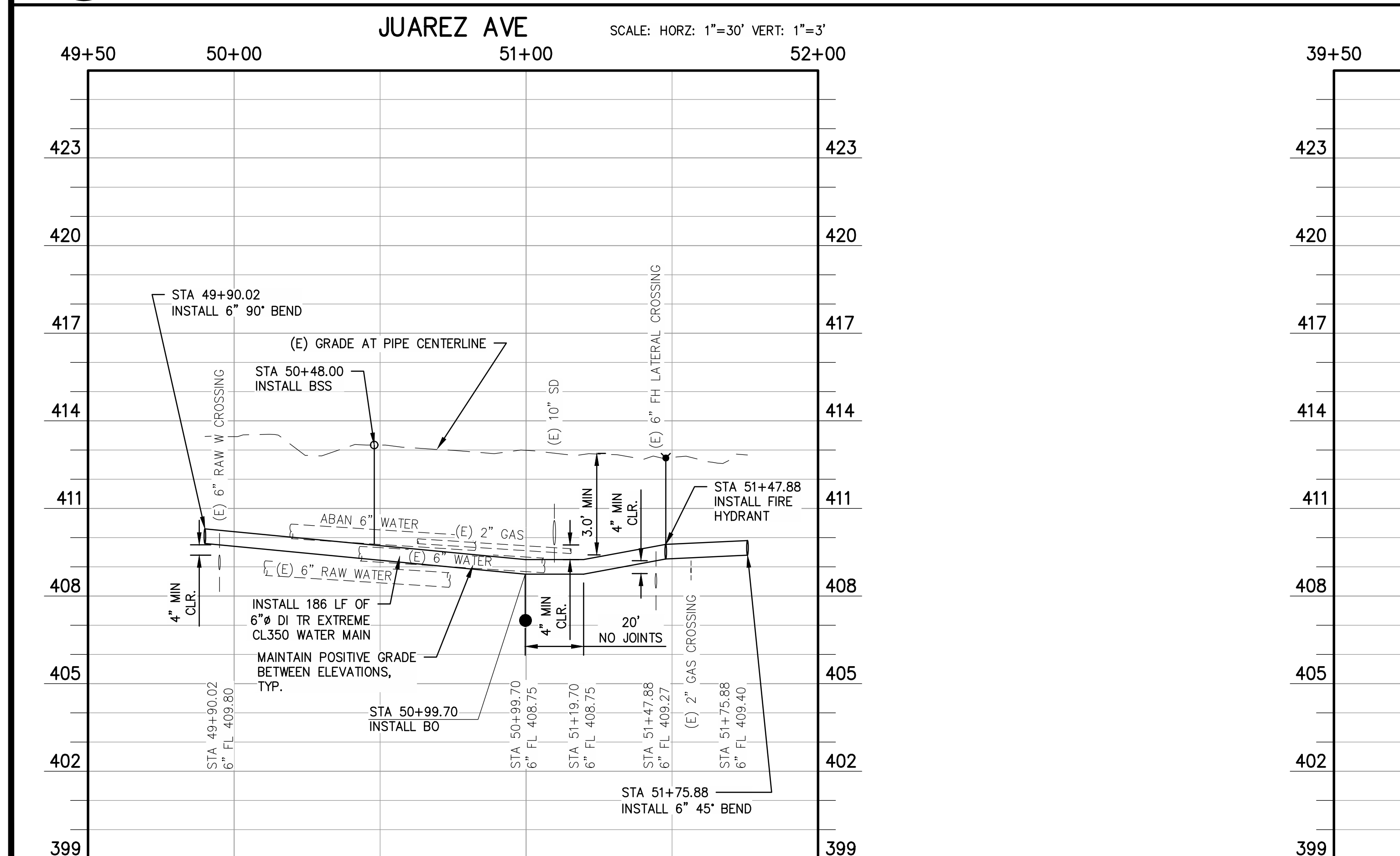
ROAD NO. N/A BRIDGE NO. N/A

DEPARTMENT OF PUBLIC WORKS AND PLANNING
W HIDALGO AVE STA 30+00 TO END
CSA 30 EL PORVENIR

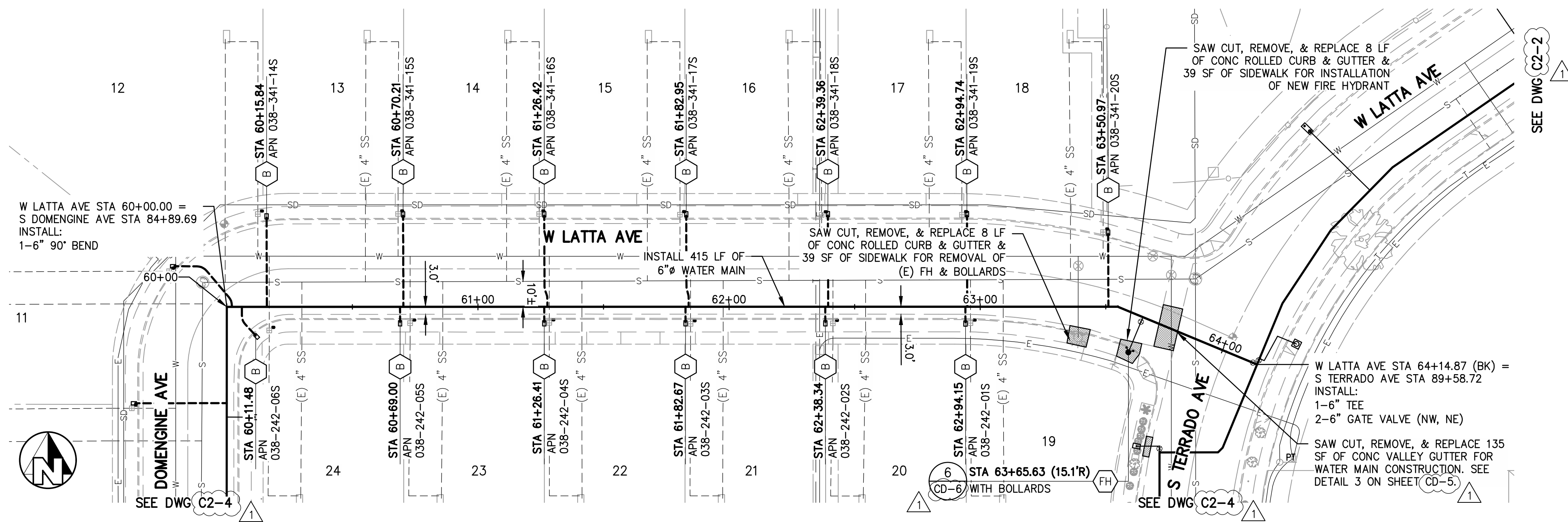
DRAWING NO. 11305 SHEET NO. C1-3 TOTAL 34



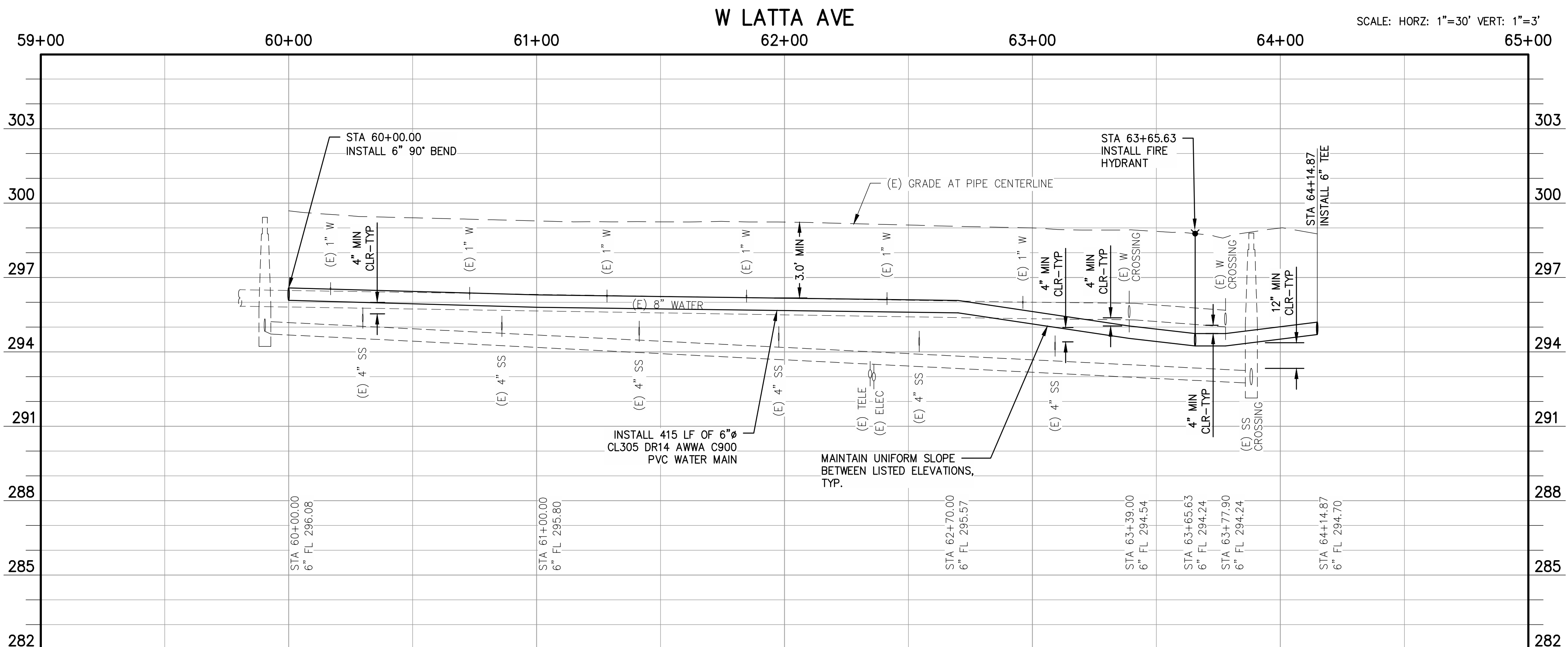
- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
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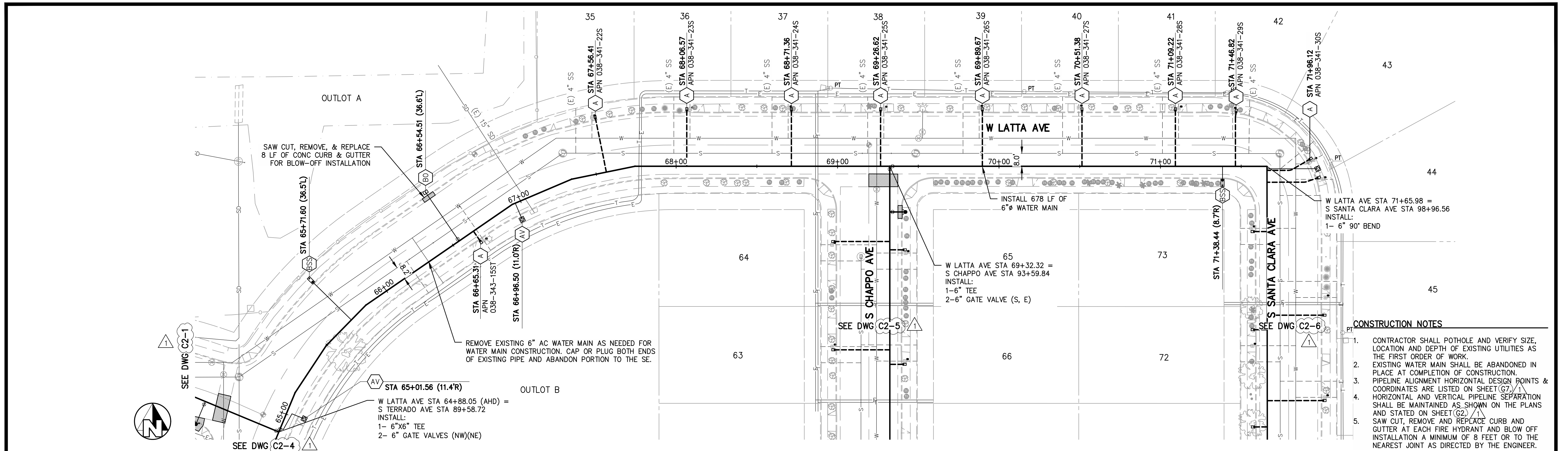
DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020	SCALE IN FEET		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		TANK SITE STA 40+00 JUAREZ AVE STA 50+00	
CHECKED: MWK	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022			COUNTY OF FRESNO		CSA 30 EL PORVENIR	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		AS-BUILT REVISIONS	DATE	ENGINEER OF RECORD		ROAD NO. N/A		BRIDGE NO. N/A	DRAWING NO. 11305



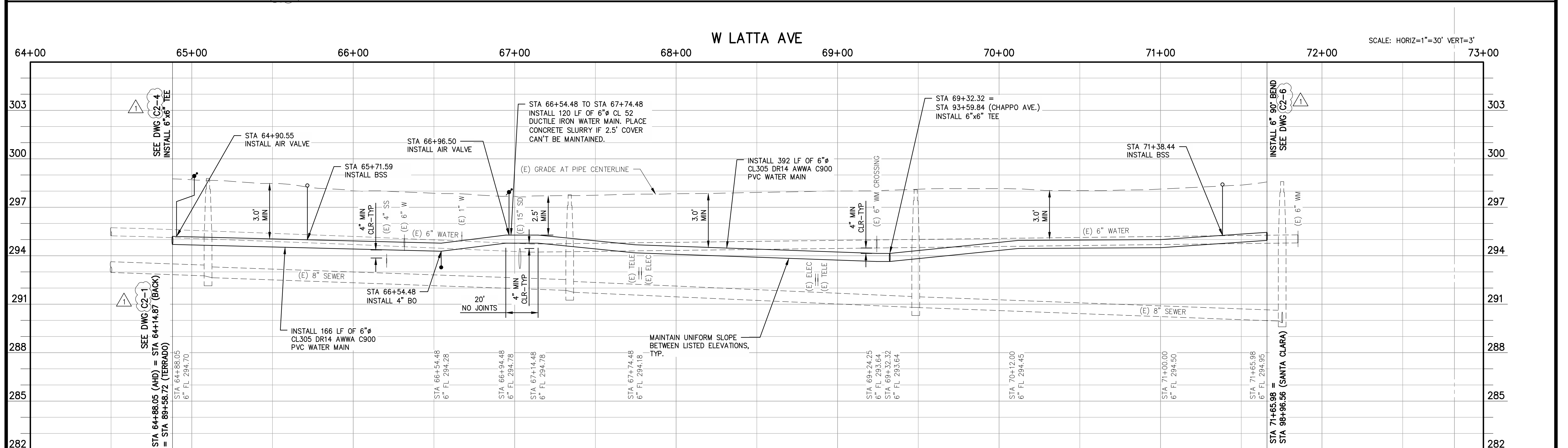
- CONSTRUCTION NOTES**
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 - PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7).
 - HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (C2).
 - SAW CUT, REMOVE, AND 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.



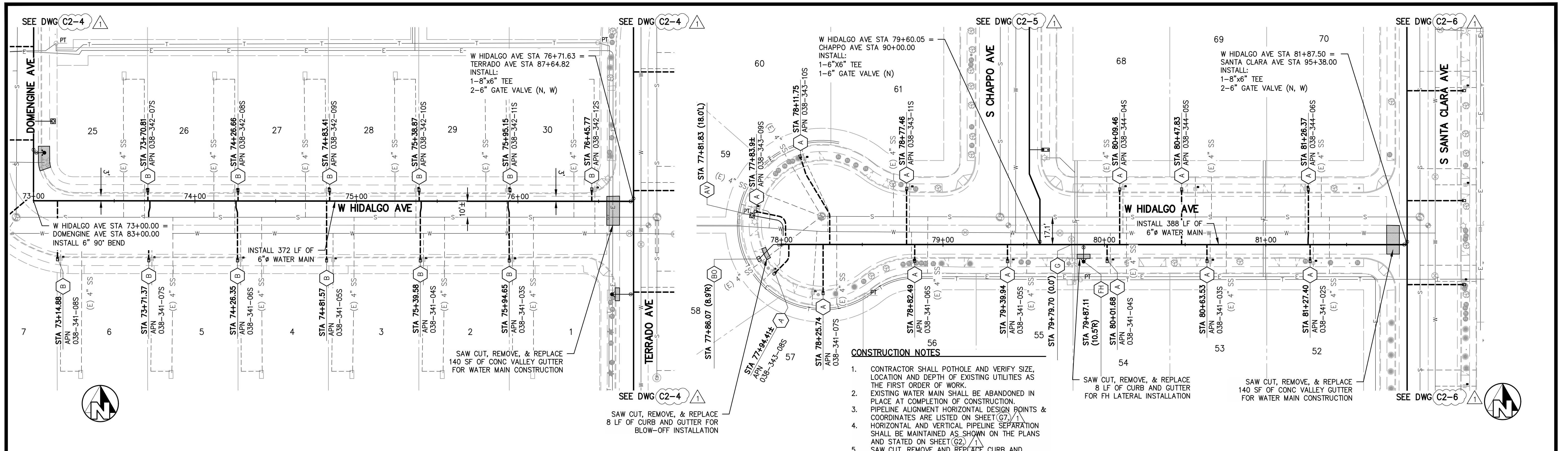
DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	SCALE IN FEET	CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		W LATTA AVE STA 60+00 TO 64+17		
CHECKED: MWK	DATE: 06/30/2020	DATE: 09/10/2020		COUNTY OF FRESNO		CSA 32 CANTUA CREEK		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		ADDENDUM NO. 1 - SHEET REFERENCES	AS-BUILT REVISIONS	ENGINEER OF RECORD	DATE: 11/15/2022	ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11305
								SHEET NO. C2-1
								TOTAL 34



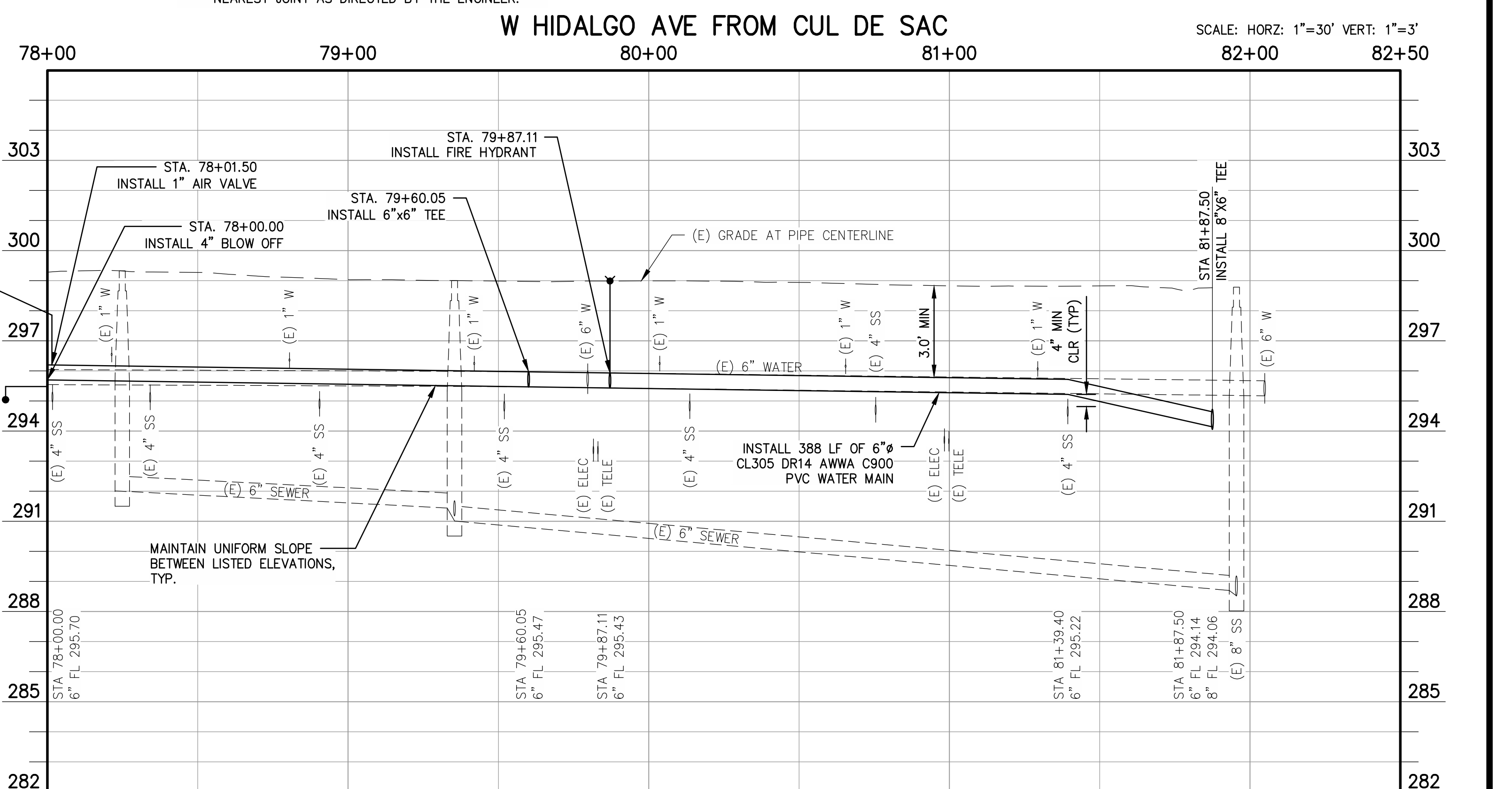
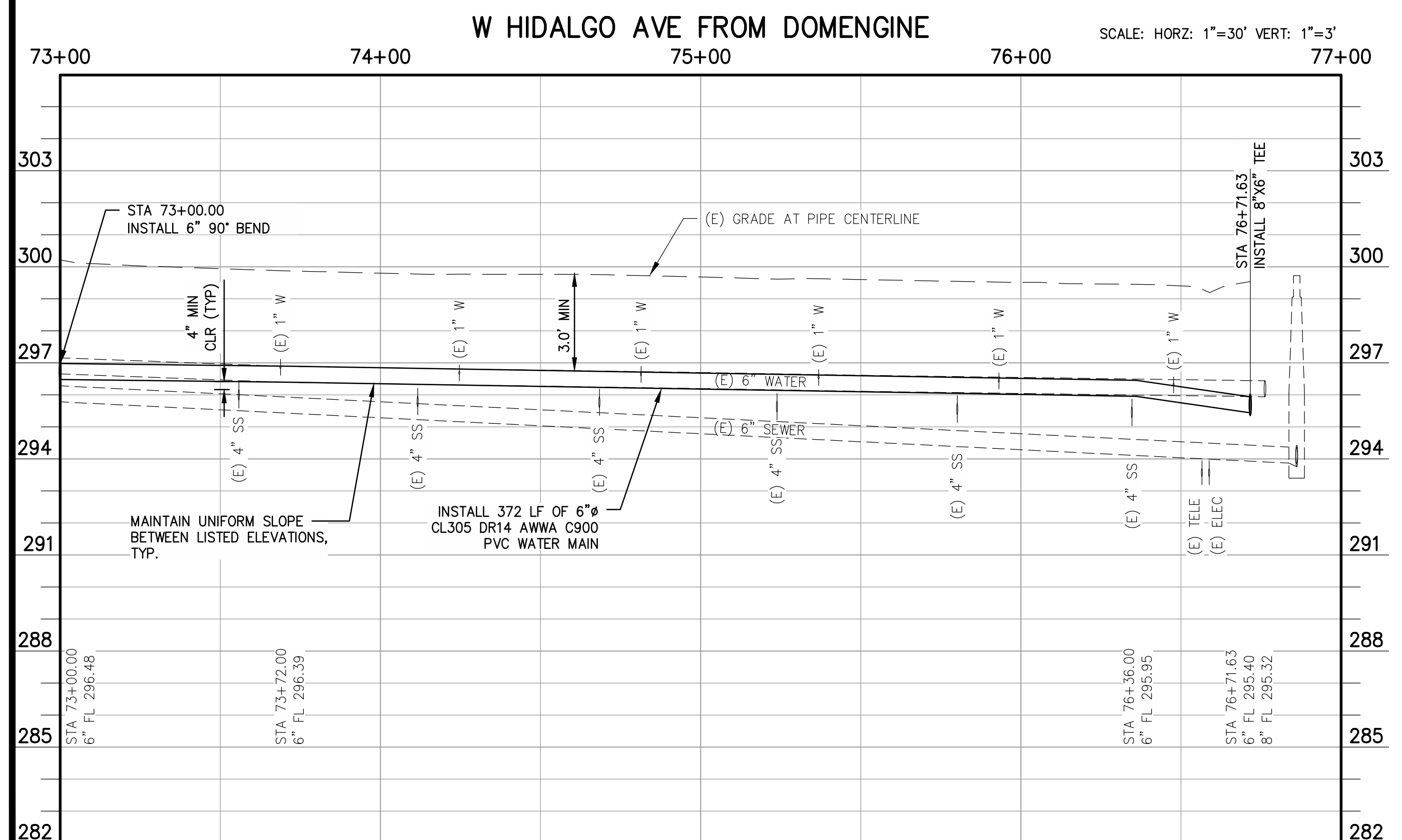
- CONSTRUCTION NOTES**
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 4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2).
 5. SAW CUT, REMOVE AND REPLACE CURB AND GUTTER AT EACH FIRE HYDRANT AND BLOW OFF INSTALLATION A MINIMUM OF 8 FEET OR TO THE NEAREST JOINT AS DIRECTED BY THE ENGINEER.



DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020	SCALE IN FEET		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		W LATTA AVE STA 65+00 TO END	
CHECKED: MWK	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022			COUNTY OF FRESNO		CSA 32 CANTUA CREEK	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		AS-BUILT REVISIONS	DATE	ENGINEER OF RECORD		ROAD NO. N/A		BRIDGE NO. N/A	DRAWING NO. 11305

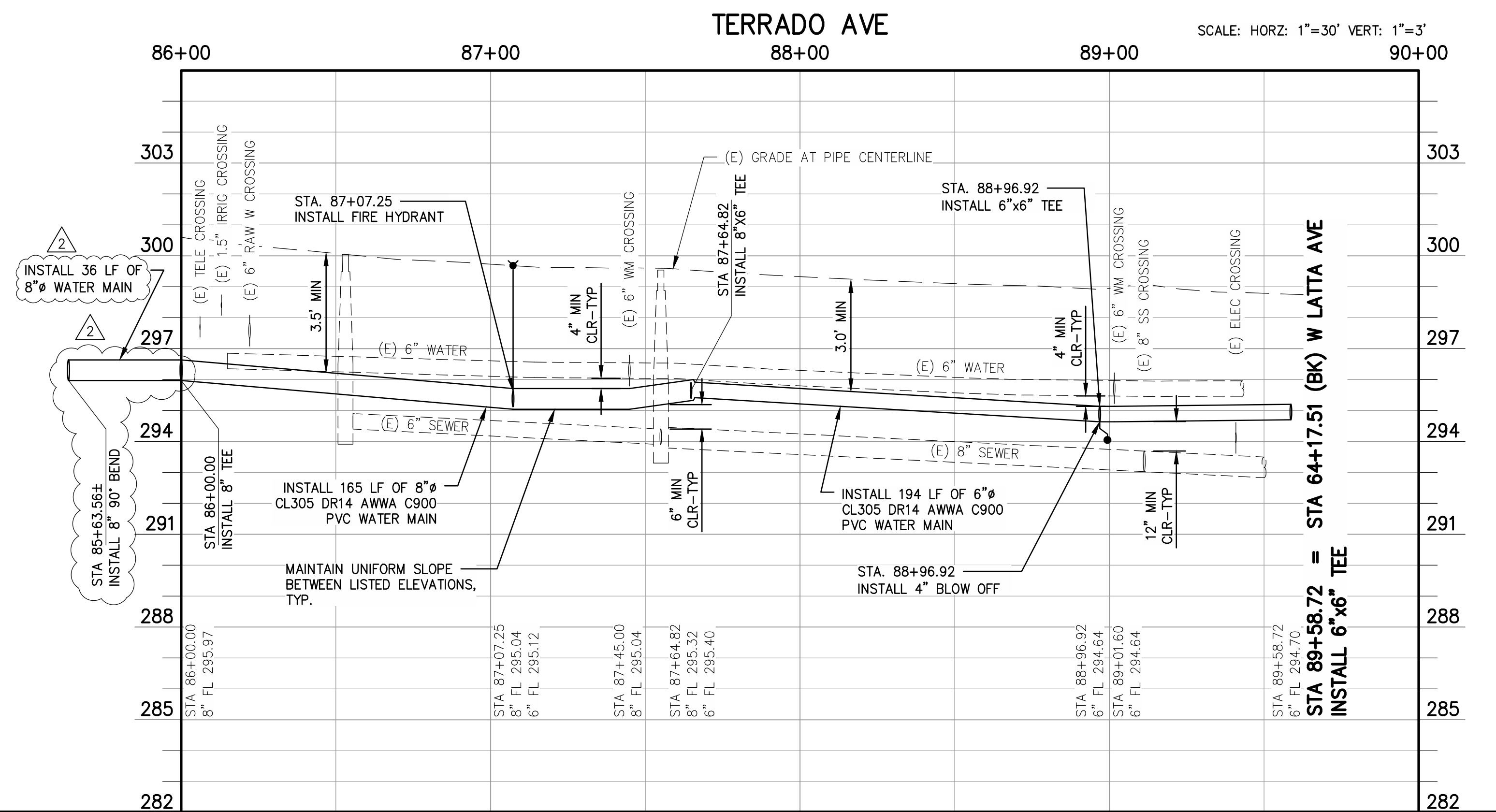
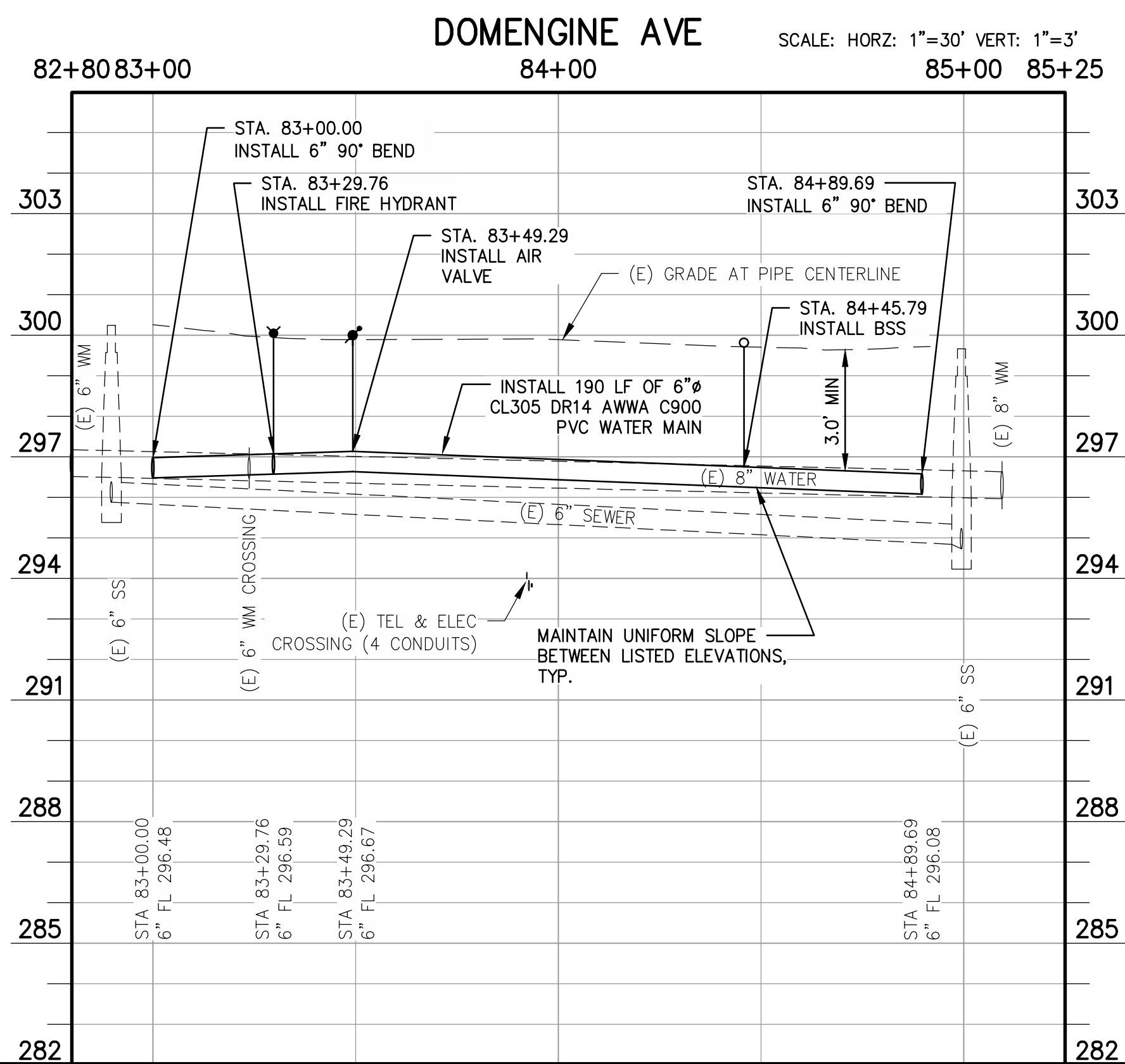
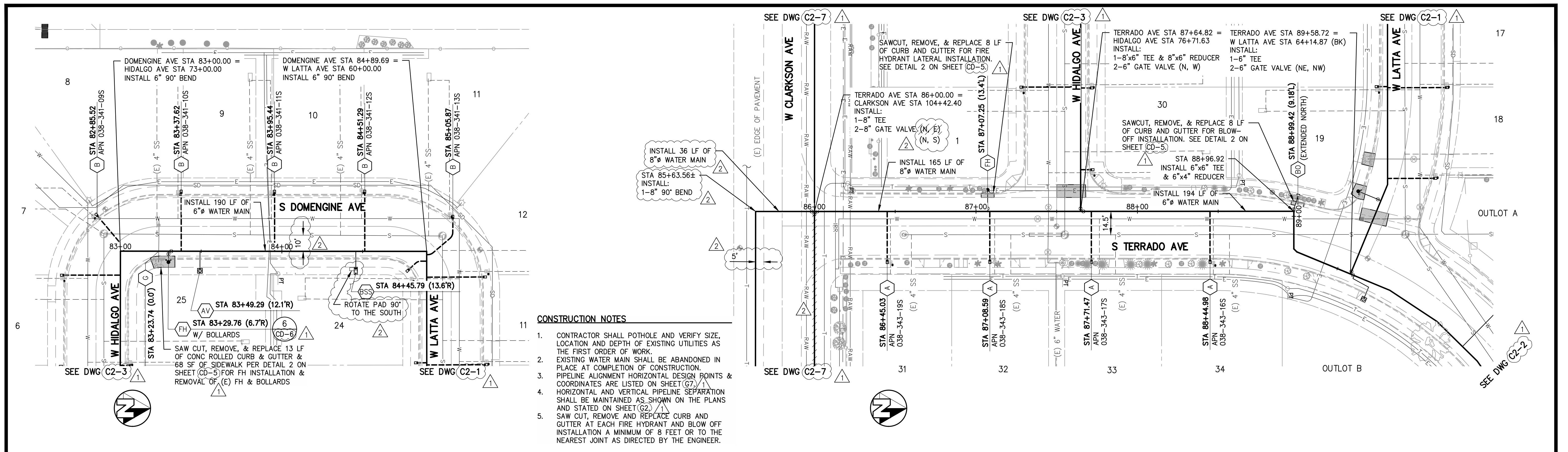


- CONSTRUCTION NOTES**
- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7). HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2).
 - 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.

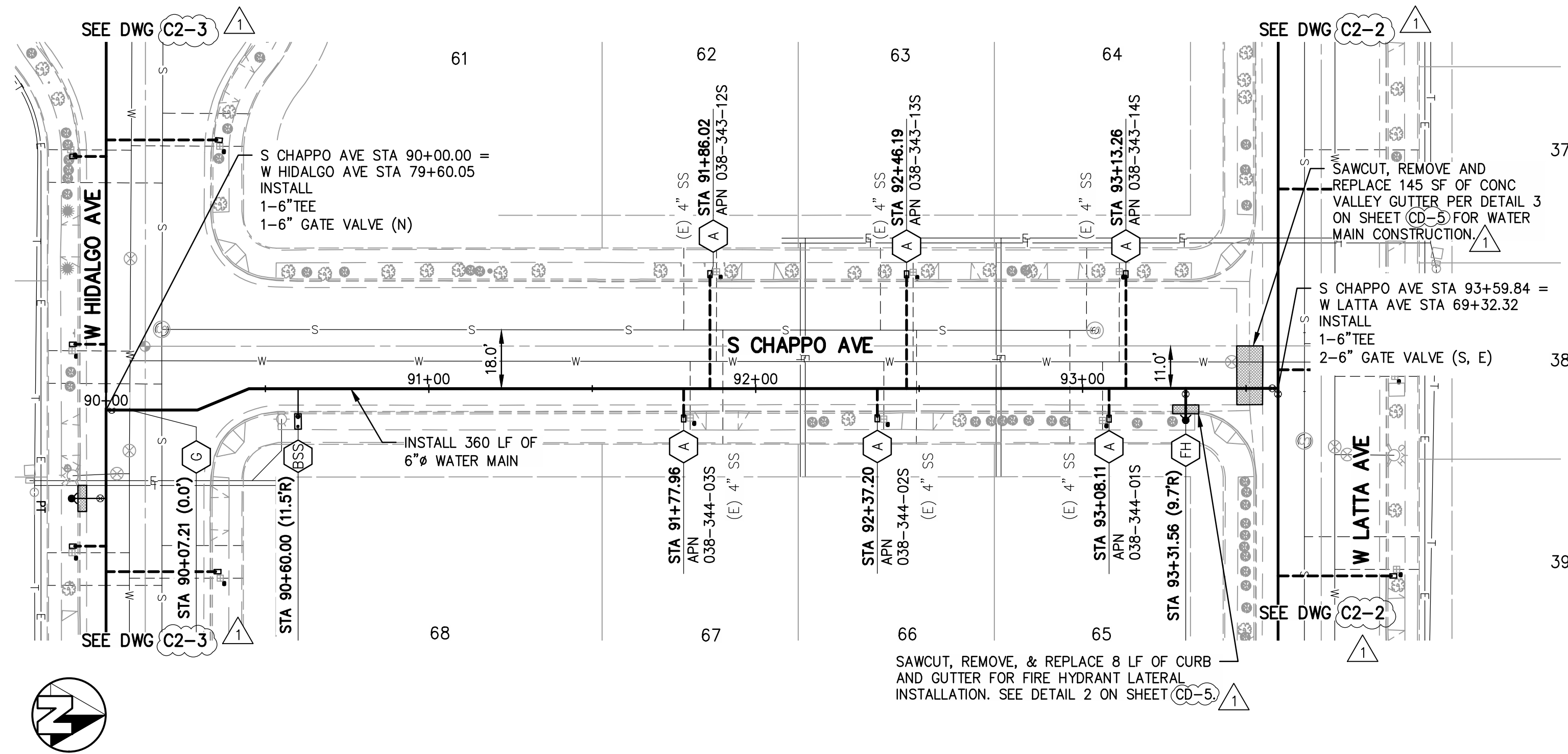


DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020
DRAWN: PPI	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022
CHECKED: MWK	DATE: 06/30/2020	AS-BUILT REVISIONS	

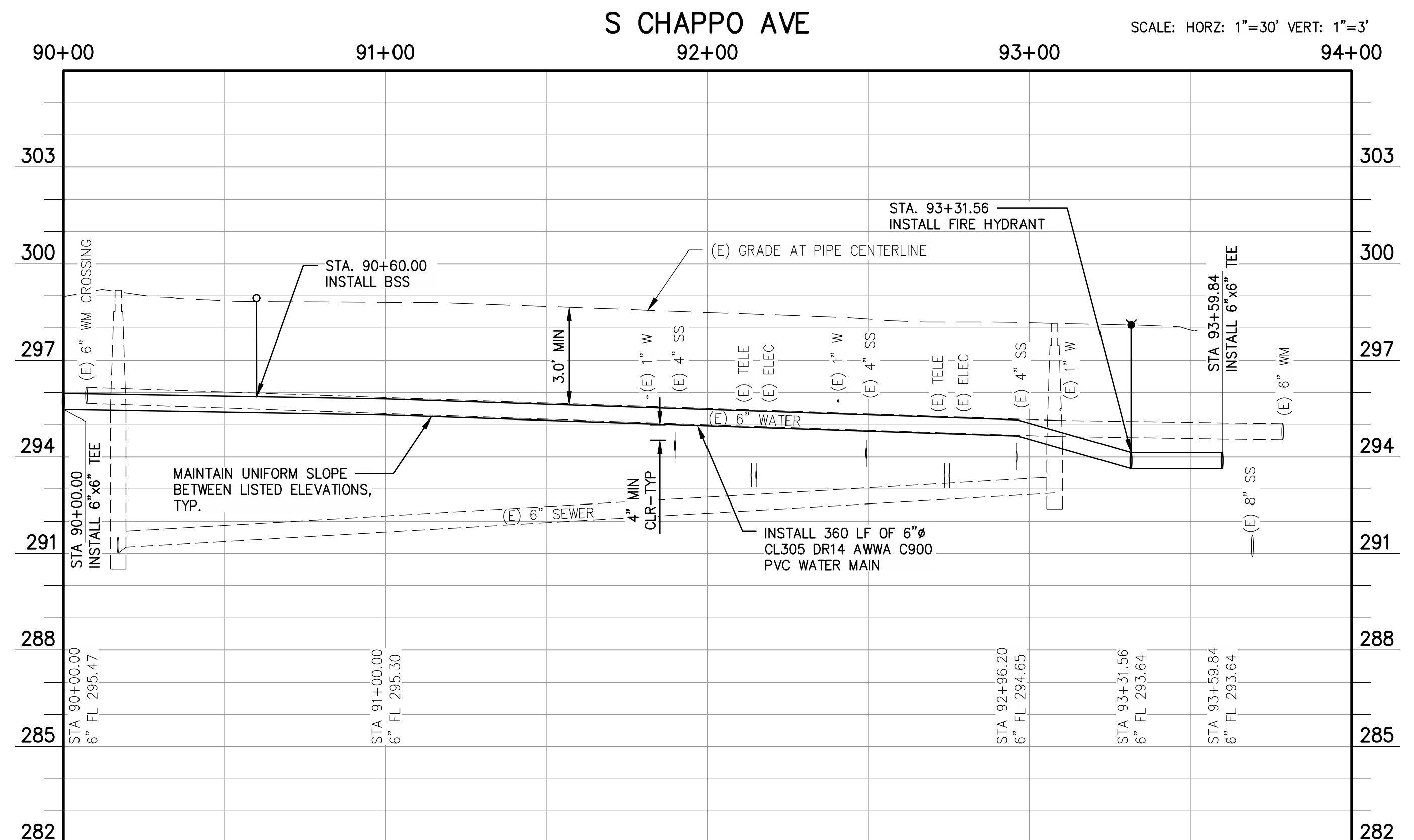
PROJECT: CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	DEPARTMENT OF PUBLIC WORKS AND PLANNING
COUNTY OF FRESNO	W HIDALGO AVE STA 73+00 TO END
ROAD NO. N/A	CSA 32 CANTUA CREEK
BRIDGE NO. N/A	DRAWING NO. 11305
	SHEET NO. C2-3
	TOTAL 34



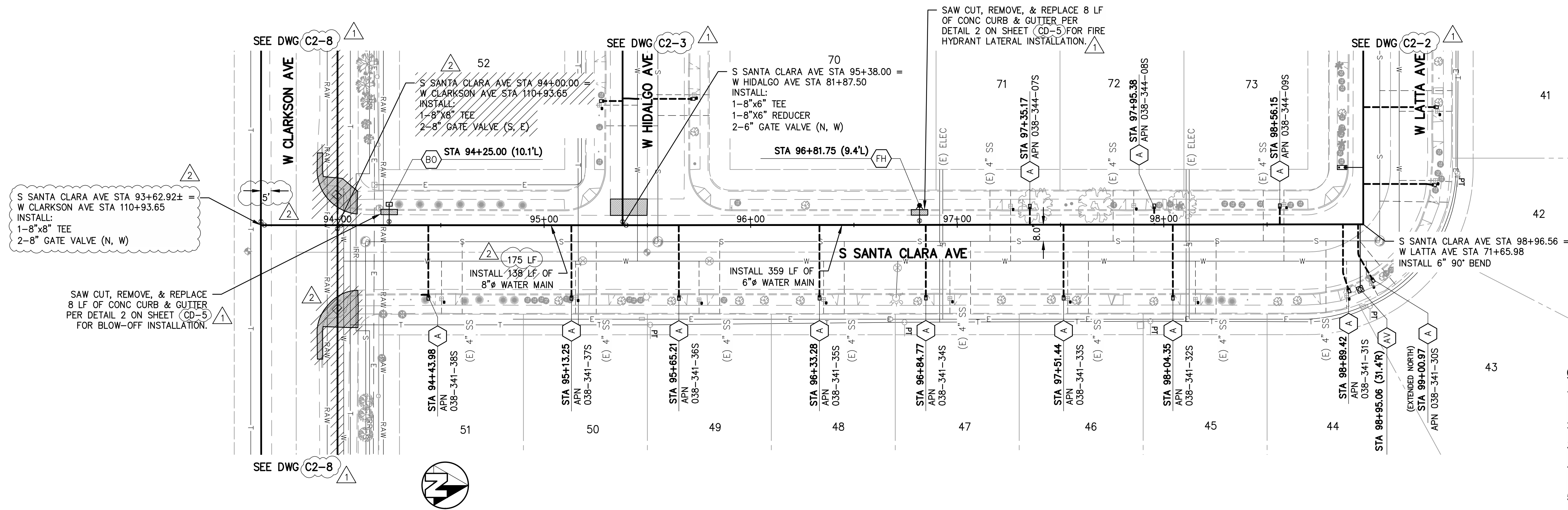
DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020	SCALE IN FEET		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		DOMENGINE & TERRADO AVE
CHECKED: MWK	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022			COUNTY OF FRESNO		CSA 32 CANTUA CREEK
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		AS-BUILT REVISIONS	DATE	ENGINEER OF RECORD		ROAD NO. N/A		BRIDGE NO. N/A



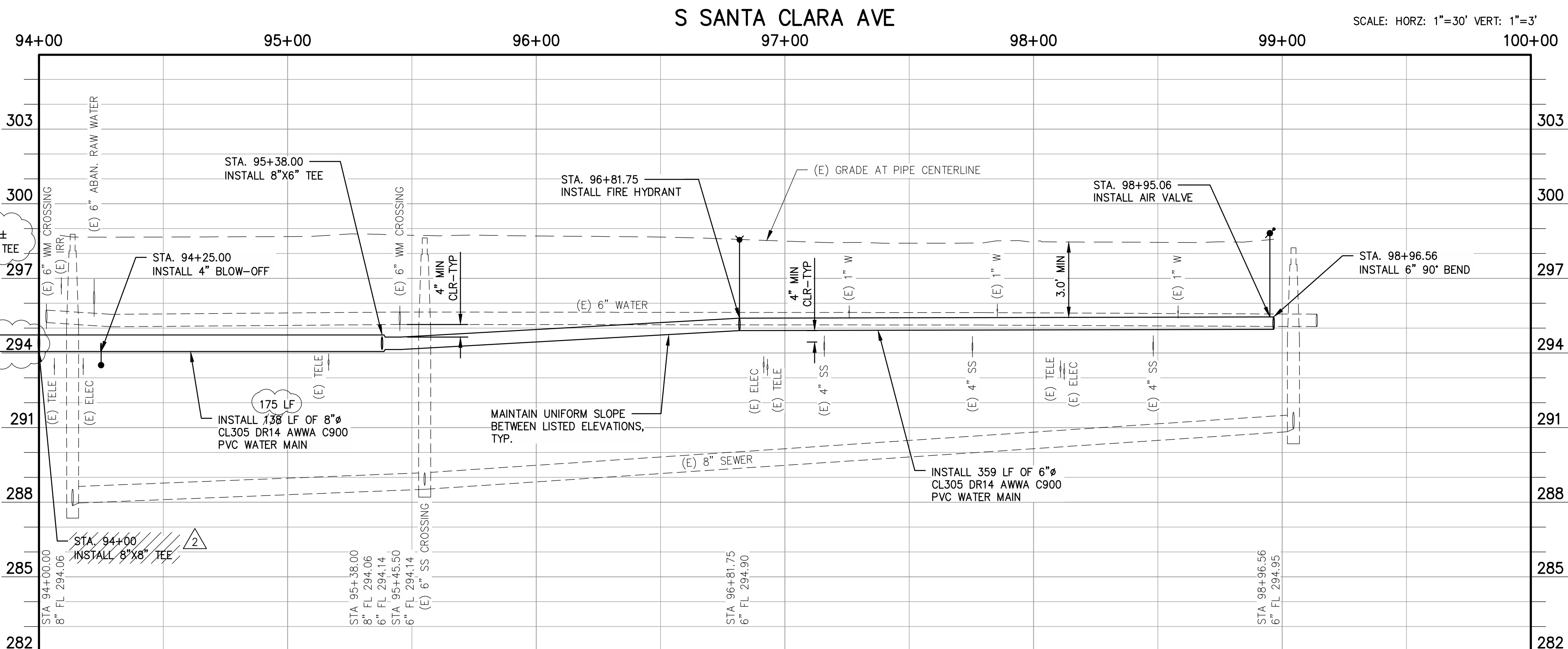
- CONSTRUCTION NOTES**
1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
 2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
 3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (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.



DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	1	ADDENDUM NO. 1 - SHEET REFERENCES			CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		S CHAPPO AVE STA 90+00 TO END
CHECKED: MWK	DATE: 06/30/2020	2	AS-BUILT REVISIONS	ENGINEER OF RECORD: <i>John Douglas Lawler</i>	DATE: 11/15/2022	COUNTY OF FRESNO		CSA 32 CANTUA CREEK
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11305 SHEET NO. C2-5 TOTAL 34

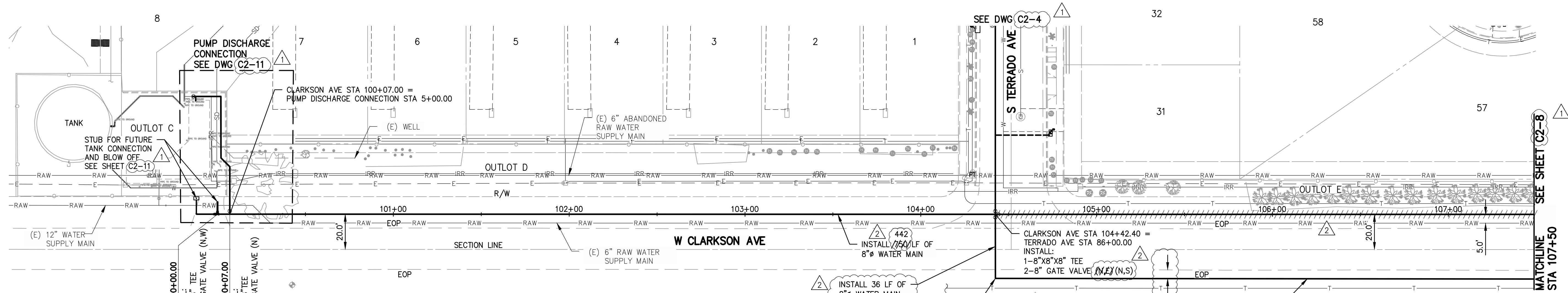


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 3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7) / 1.
 4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2) / 1.
 5. SAW CUT, REMOVE AND REPLACE CURB 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.

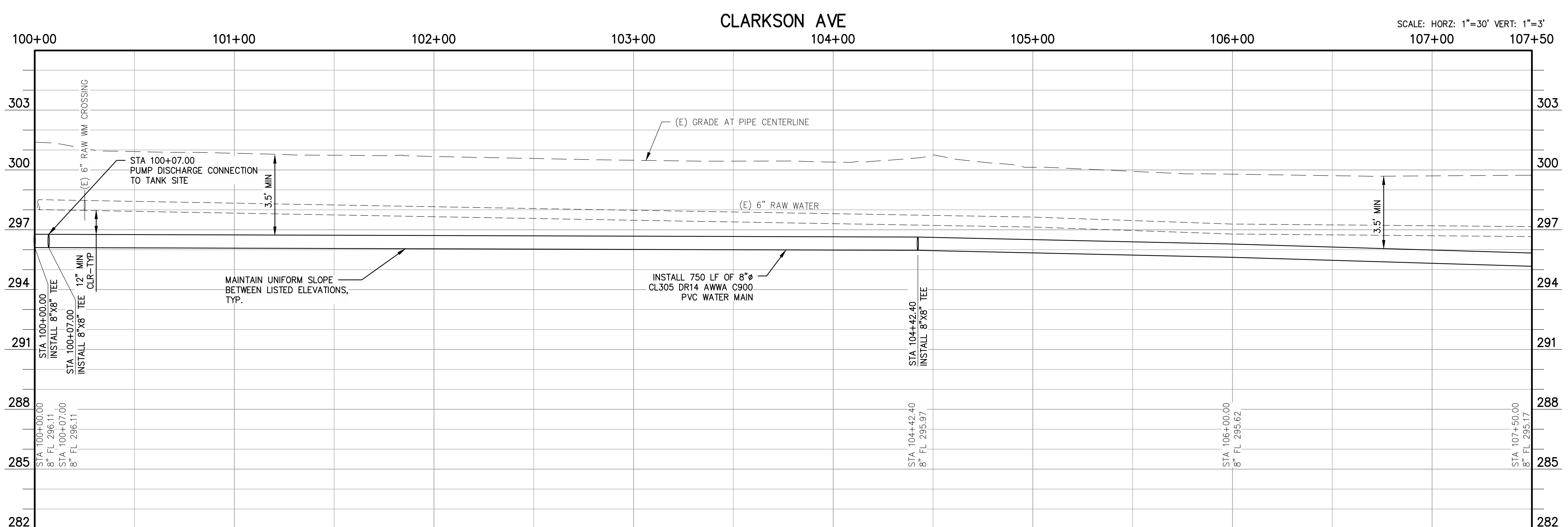


DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020	SCALE IN FEET		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		S S SANTA CLARA AVE STA 94+00 TO END
CHECKED: MWK	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022			COUNTY OF FRESNO		CSA 32 CANTUA CREEK

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

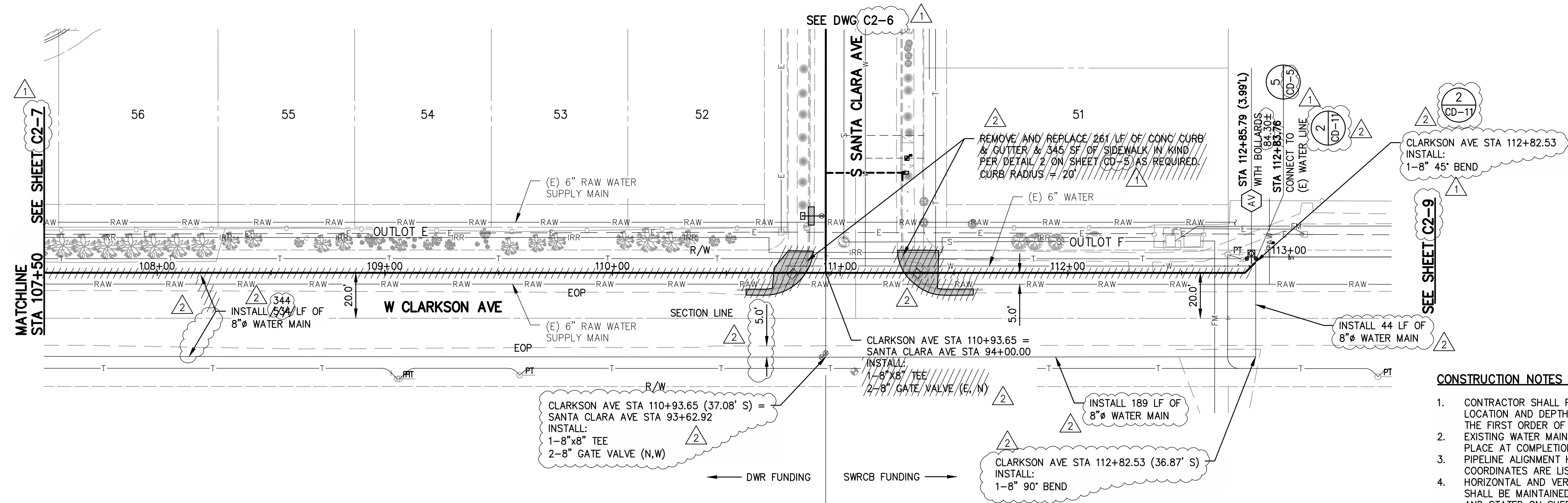


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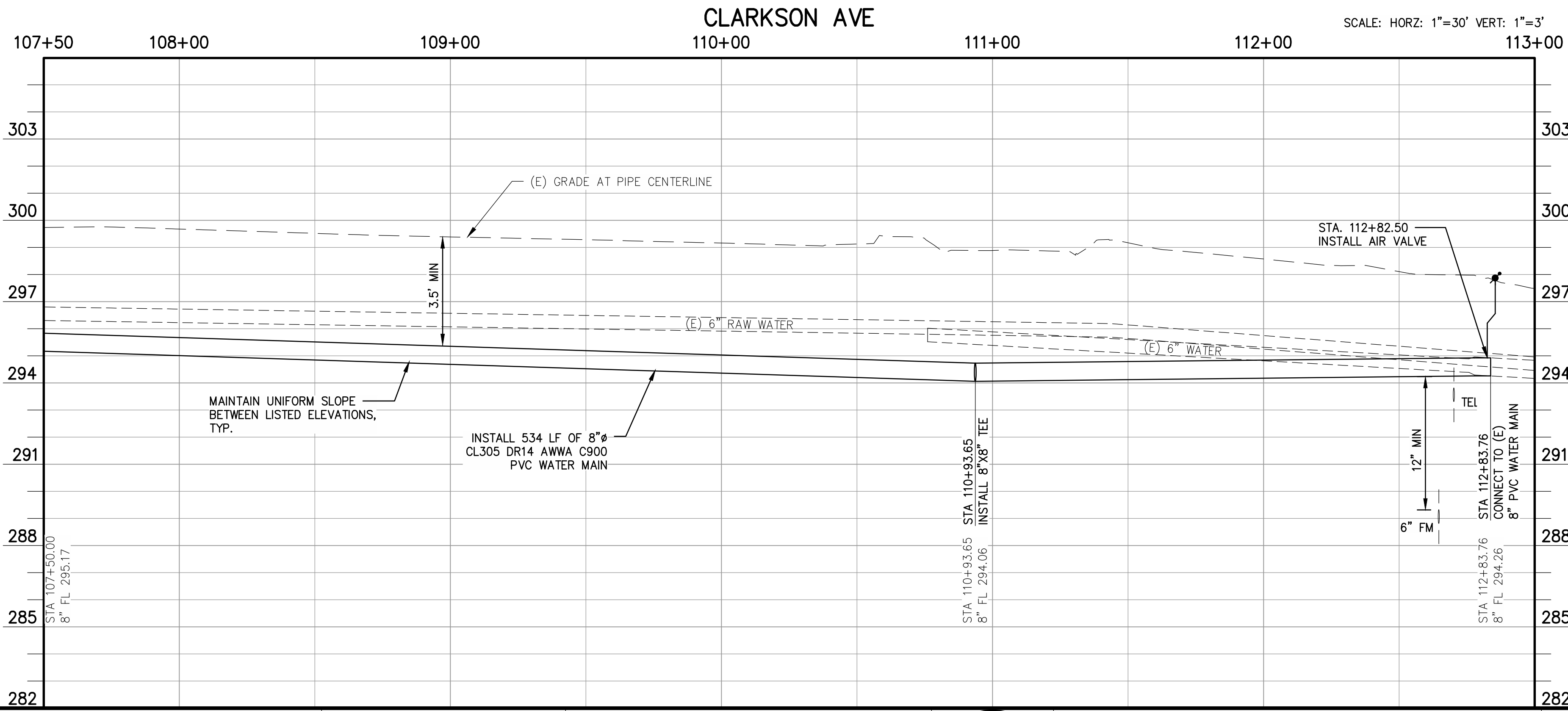


DESIGNED: JDL DRAWN: PPI CHECKED: MWK		DATE: 06/30/2020 06/30/2020 06/30/2020	RECORD DRAWING RESIDENT ENGINEER ADDENDUM NO. 1 - SHEET REFERENCES AS-BUILT REVISIONS	DATE: 09/10/2020 11/15/2022	SCALE SCALE IN FEET 	 ENGINEER OF RECORD DATE: 11/15/2022	PROJECT CSA 30 & 32 WATER SYSTEM IMPROVEMENTS COUNTY OF FRESNO ROAD NO. N/A BRIDGE NO. N/A	 DEPARTMENT OF PUBLIC WORKS AND PLANNING W CLARKSON AVE STA 100+00 TO STA 107+50 CSA 32 CANTUA CREEK DRAWING NO. 11305 SHEET NO. C2-7 TOTAL 34
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FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



- CONSTRUCTION NOTES**
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DATE	RECORD DRAWING		SCALE	 ENGINEER OF RECORD	PROJECT	 DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DESIGNED: JDL 06/30/2020	RESIDENT ENGINEER		 SCALE IN FEET		11/15/2022		CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	W CLARKSON AVE STA 107+50 TO 112+84
DRAWN: PPI 06/30/2020	1	ADDENDUM NO. 1 - SHEET REFERENCES			DATE		COUNTY OF FRESNO	CSA 32 CANTUA CREEK
CHECKED: MWK 06/30/2020	2	AS-BUILT REVISIONS			ROAD NO. N/A BRIDGE NO. N/A	DRAWING NO. 11305 SHEET NO. C2-8 TOTAL 34		

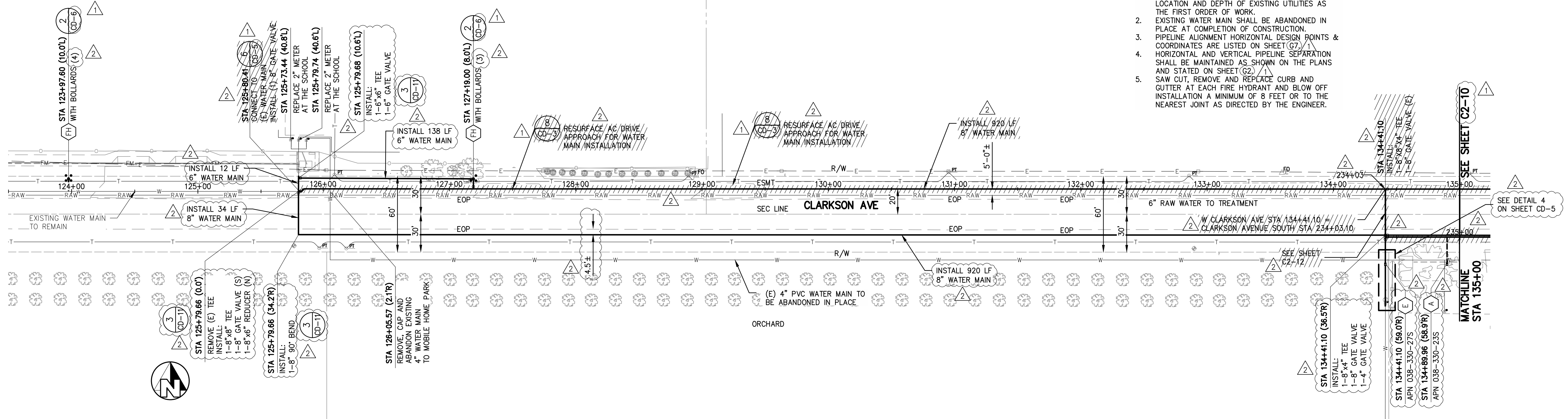
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

CANTUA CREEK ELEMENTARY SCHOOL

SCHOOL HOUSING

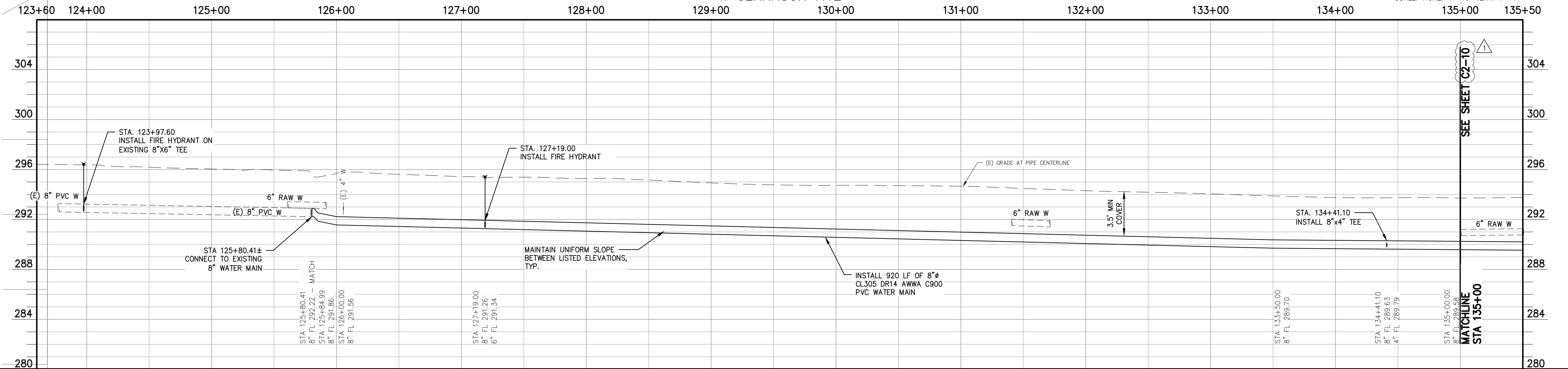
CONSTRUCTION NOTES

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2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & 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).
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W CLARKSON AVE

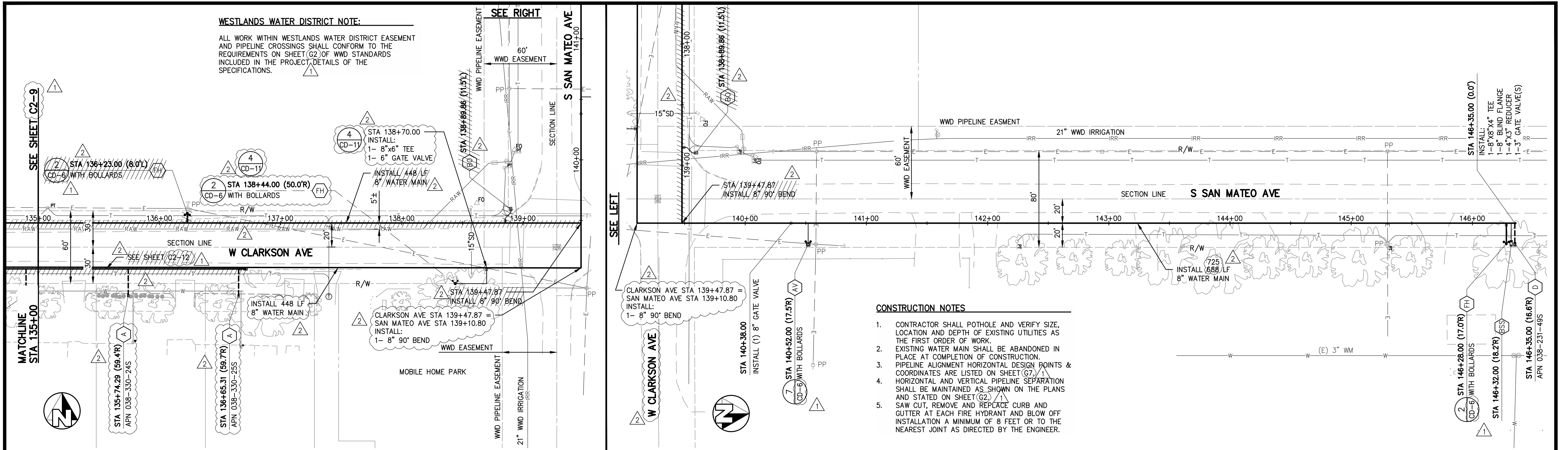
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DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022		COUNTY OF FRESNO		W CLARKSON AVE STA 125+50 TO 135+00
CHECKED: MWK	06/30/2020	AS-BUILT REVISIONS	DATE		COUNTY OF FRESNO		CSA 32 CANTUA CREEK
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				ENGINEER OF RECORD	ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11305
				DATE			SHEET NO. C2-9
							TOTAL 34

WESTLANDS WATER DISTRICT NOTE:

ALL WORK WITHIN WESTLANDS WATER DISTRICT EASEMENT AND PIPELINE CROSSINGS SHALL CONFORM TO THE REQUIREMENTS ON SHEET (G2) OF WWD STANDARDS INCLUDED IN THE PROJECT DETAILS OF THE SPECIFICATIONS.

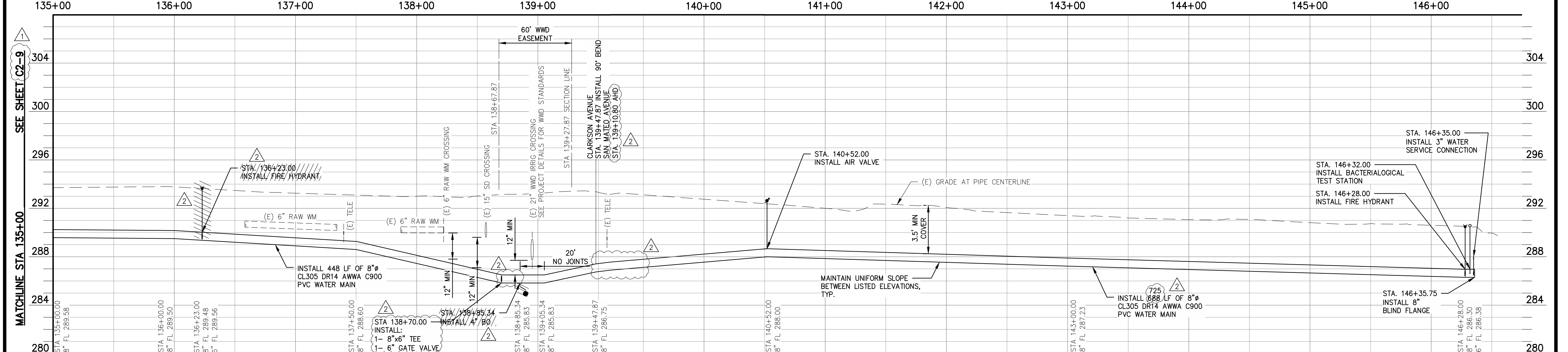


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W CLARKSON AVE

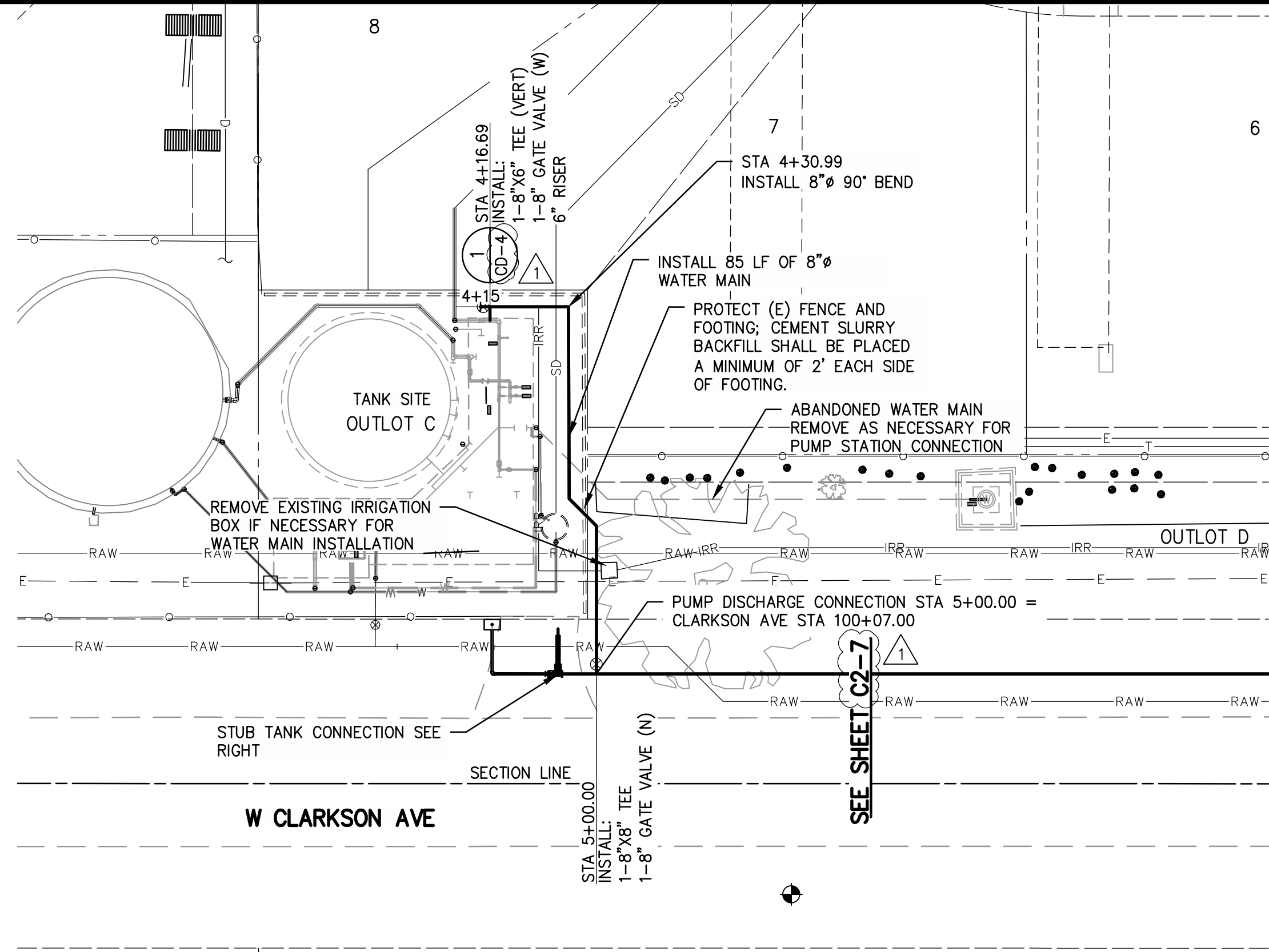
SAN MATEO AVE

SCALE: HORZ: 1"=40' VERT: 1"=4'

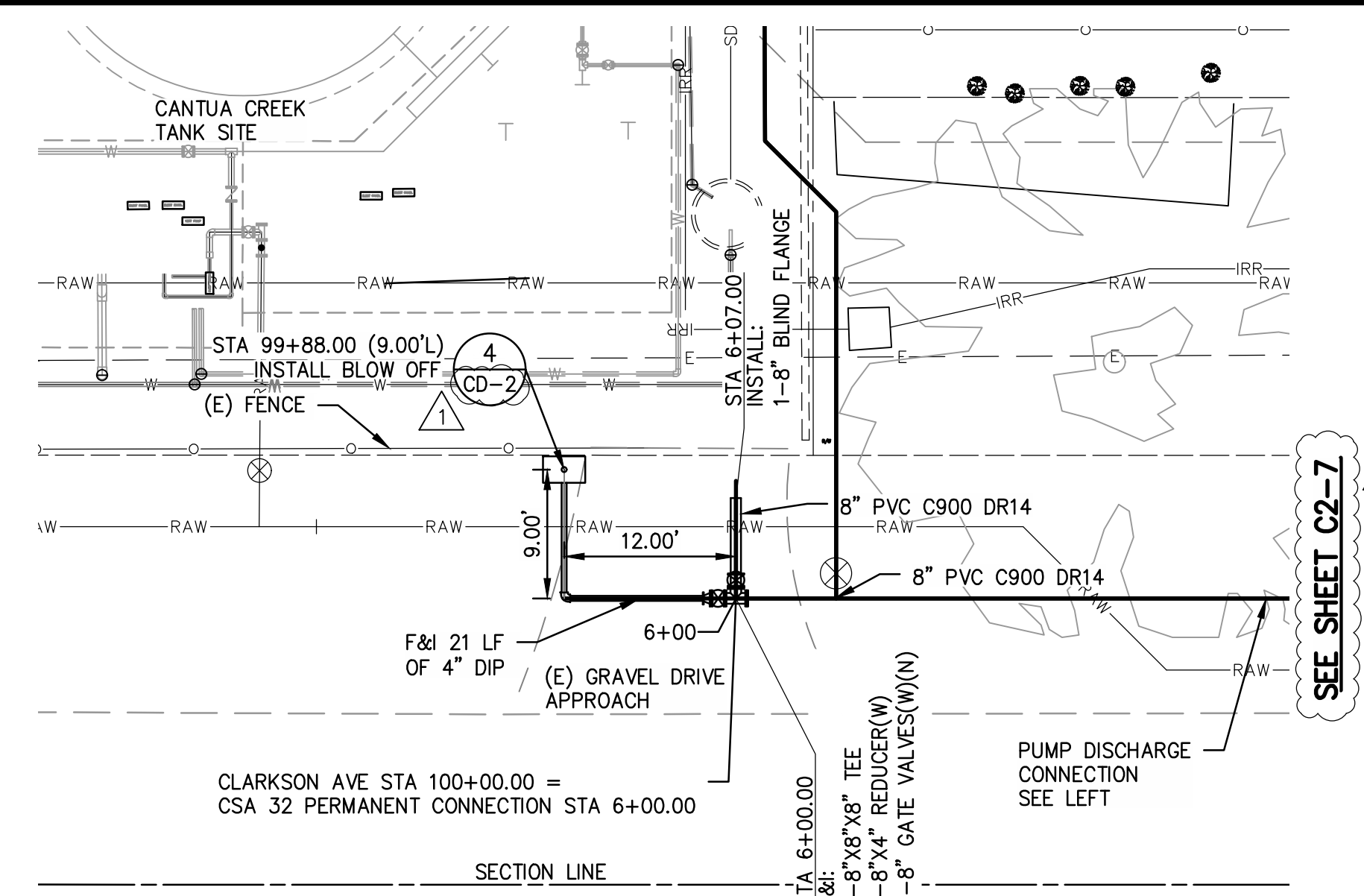


DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020
DRAWN: PPI	DATE: 06/30/2020	1 ADDENDUM NO. 1 - SHEET REFERENCES	09/10/2020
CHECKED: MWK	DATE: 06/30/2020	2 AS-BUILT REVISIONS	11/15/2022

<p>FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.</p>	<p>RECORD DRAWING</p>	<p>SCALE</p>	<p>ENGINEER OF RECORD</p>	<p>DATE: 11/15/2022</p>	<p>PROJECT</p> <p>CSA 30 & 32 WATER SYSTEM IMPROVEMENTS</p> <p>COUNTY OF FRESNO</p>	<p>ROAD NO. N/A</p> <p>BRIDGE NO. N/A</p>	<p>DEPARTMENT OF PUBLIC WORKS AND PLANNING</p> <p>CLARKSON & SAN MATEO AVE STA 135+00 TO END</p> <p>CSA 32 CANTUA CREEK</p>
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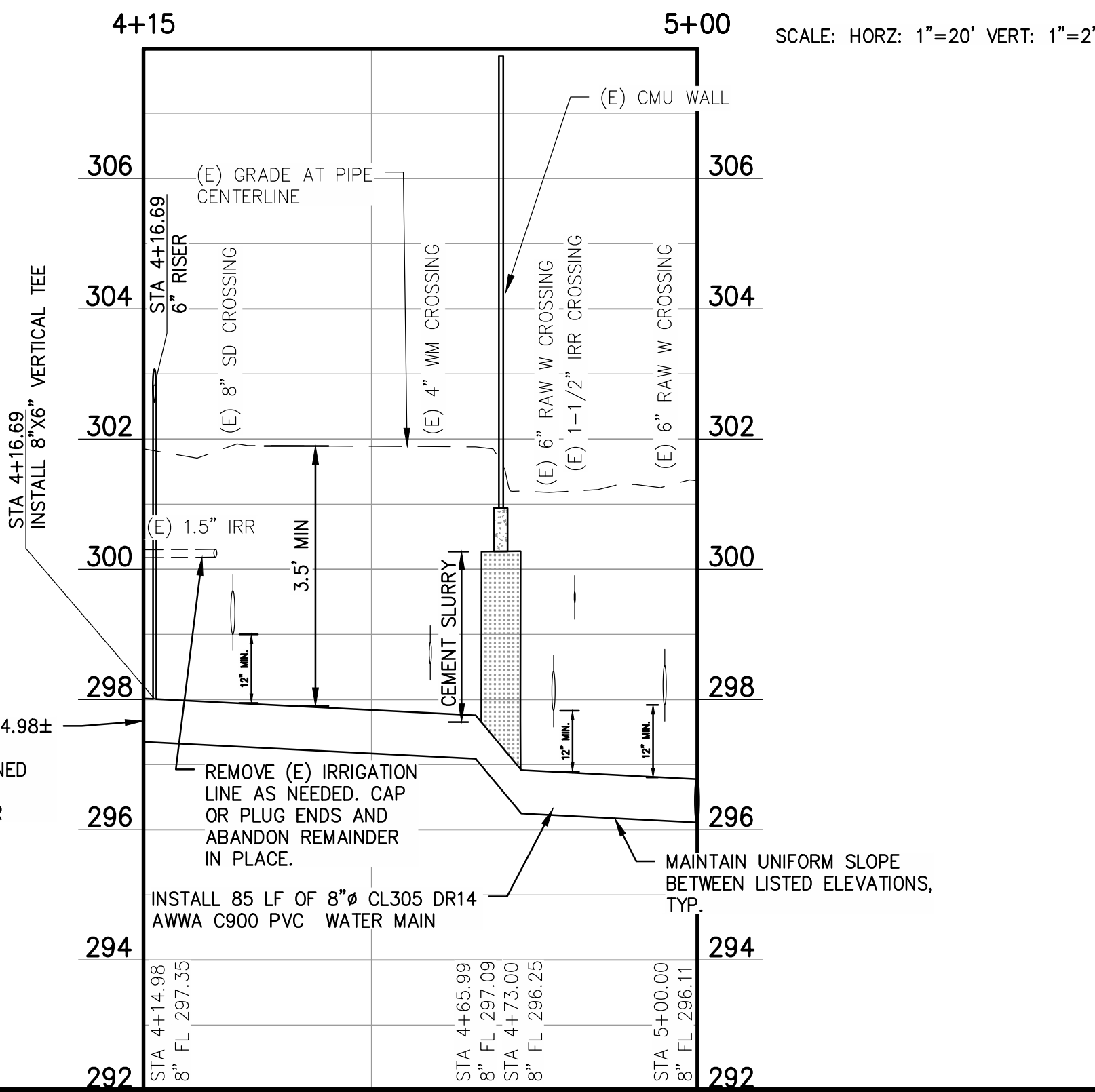


SCALE IN FEET
0 10 20 40



SCALE IN FEET
0 5 10 20

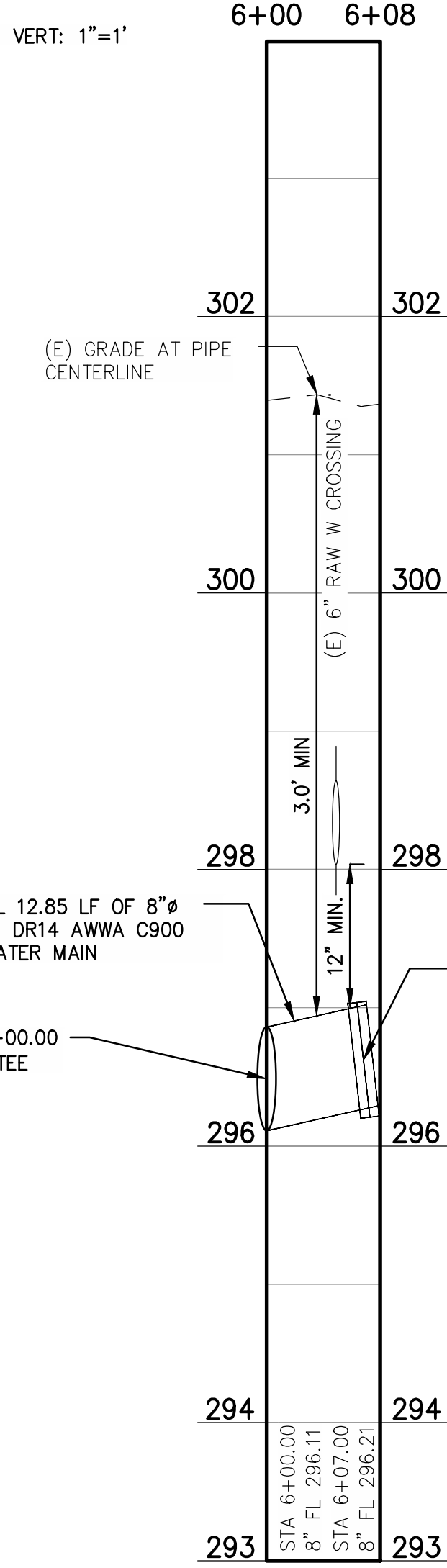
PUMP DISCHARGE CONNECTION AT TANK SITE



SCALE IN FEET
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STUB CONNECTION AT TANK SITE

SCALE: HORZ: 1"=10' VERT: 1"=1'



SCALE IN FEET
0 5 10 20

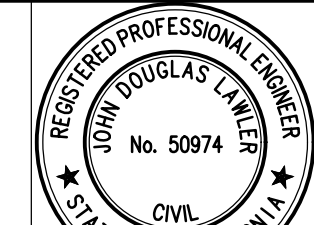
CONSTRUCTION NOTES

1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & COORDINATES ARE LISTED ON SHEET (G7).
4. HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS AND STATED ON SHEET (G2).
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.

DATE	RECORD DRAWING	SCALE
DESIGNED: JDL 06/30/2020	RESIDENT ENGINEER	DATE
DRAWN: PPI 06/30/2020	1 ADDENDUM NO. 1 - SHEET REFERENCES	09/10/2020
CHECKED: MWK 06/30/2020	2 AS-BUILT REVISIONS	11/15/2022

SEE ABOVE FOR SCALE

ENGINEER OF RECORD
John Douglas
11/15/2022
DATE



PROJECT
CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
COUNTY OF FRESNO
ROAD NO. N/A
BRIDGE NO. N/A

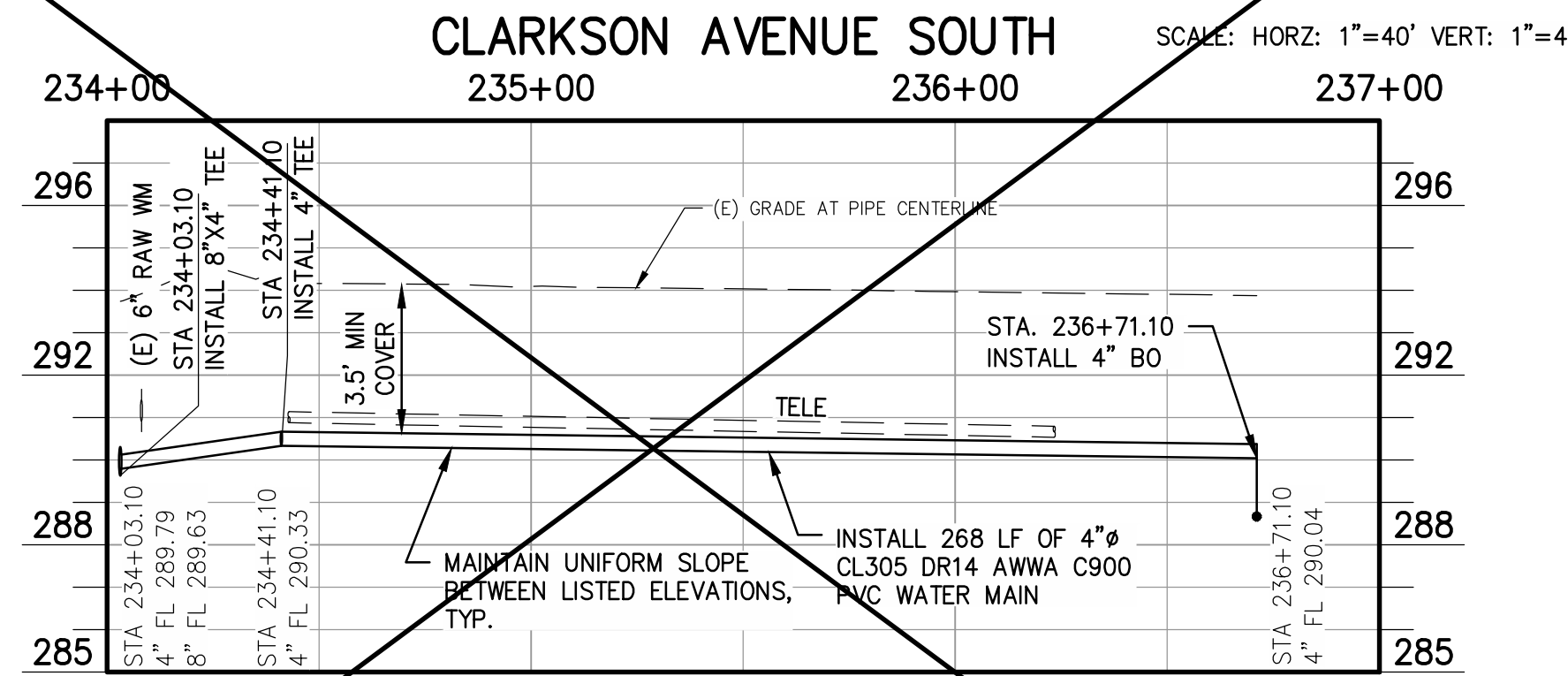
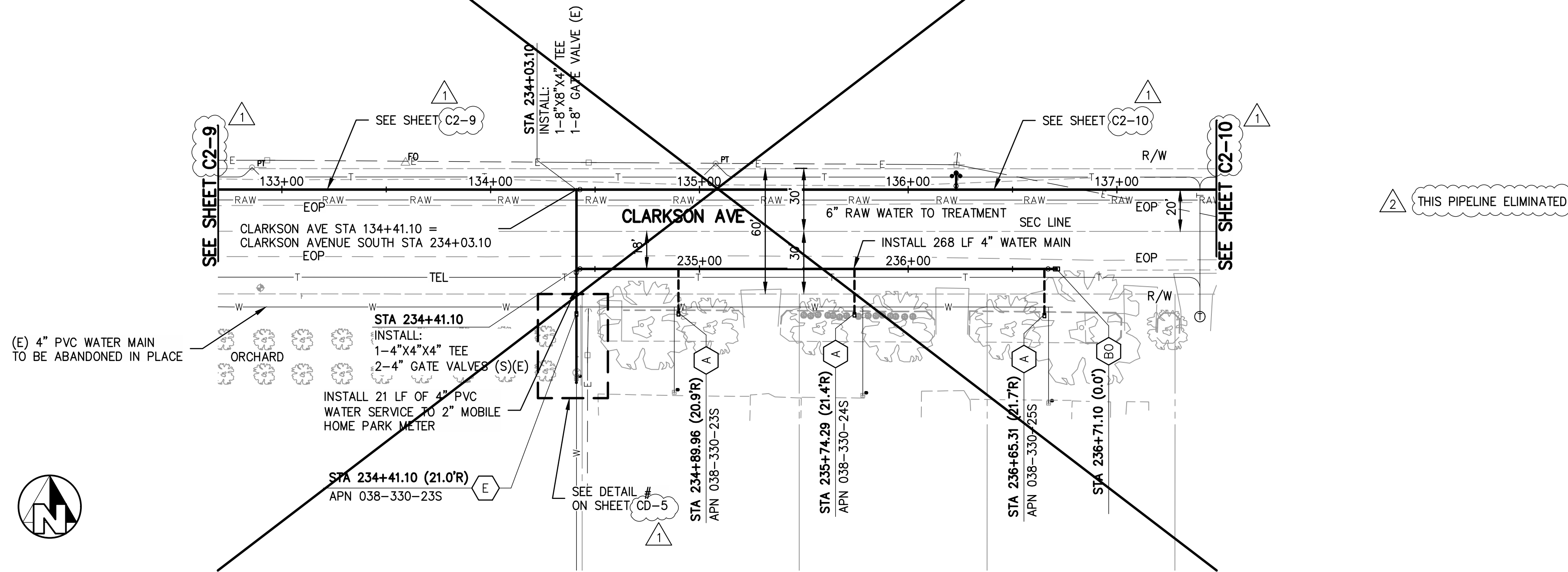


DEPARTMENT OF PUBLIC WORKS AND PLANNING
PUMP CONNECTION AT TANK SITE
CSA 32 CANTUA CREEK
DRAWING NO. 11305
SHEET NO. C2-11
TOTAL 34

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

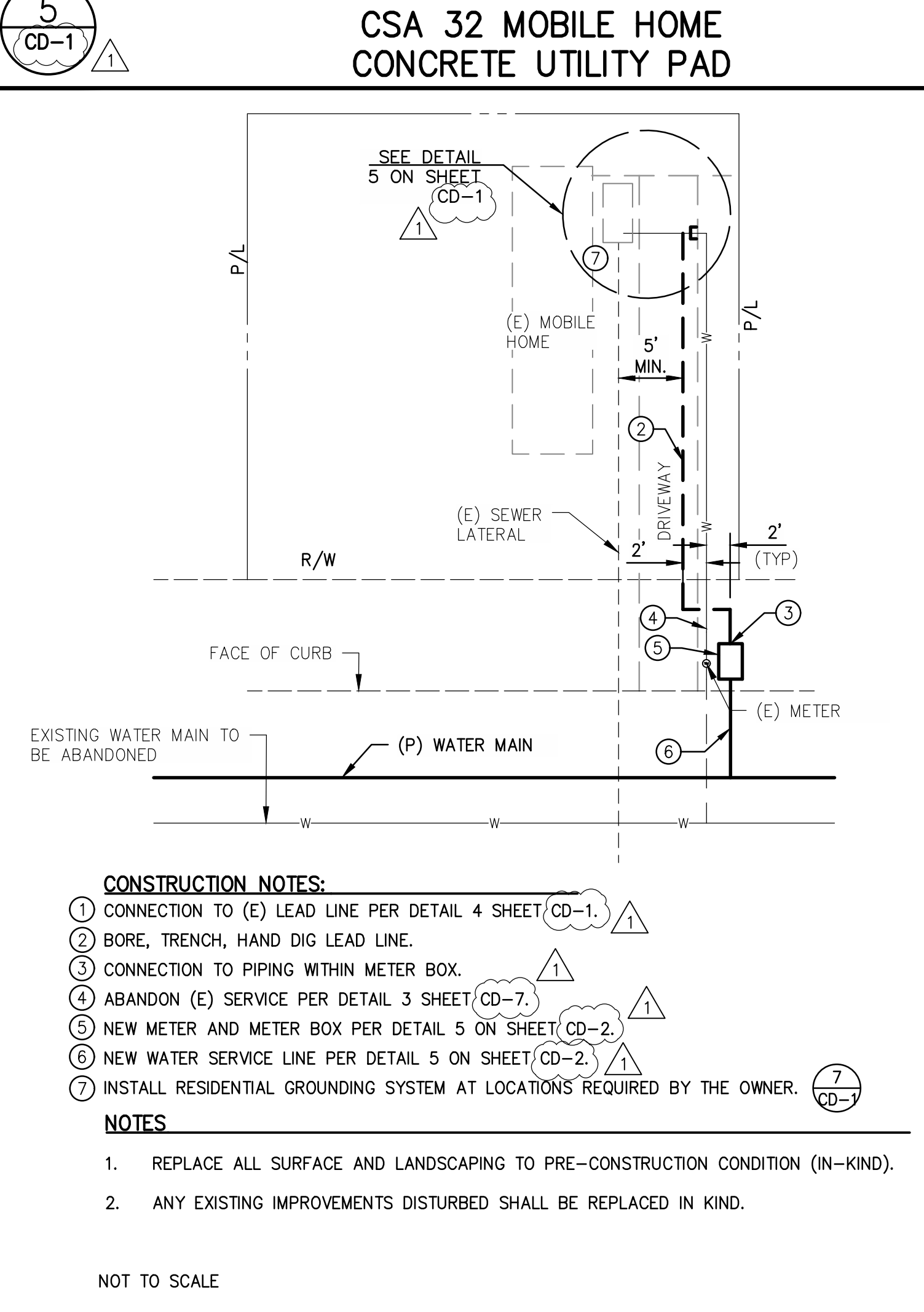
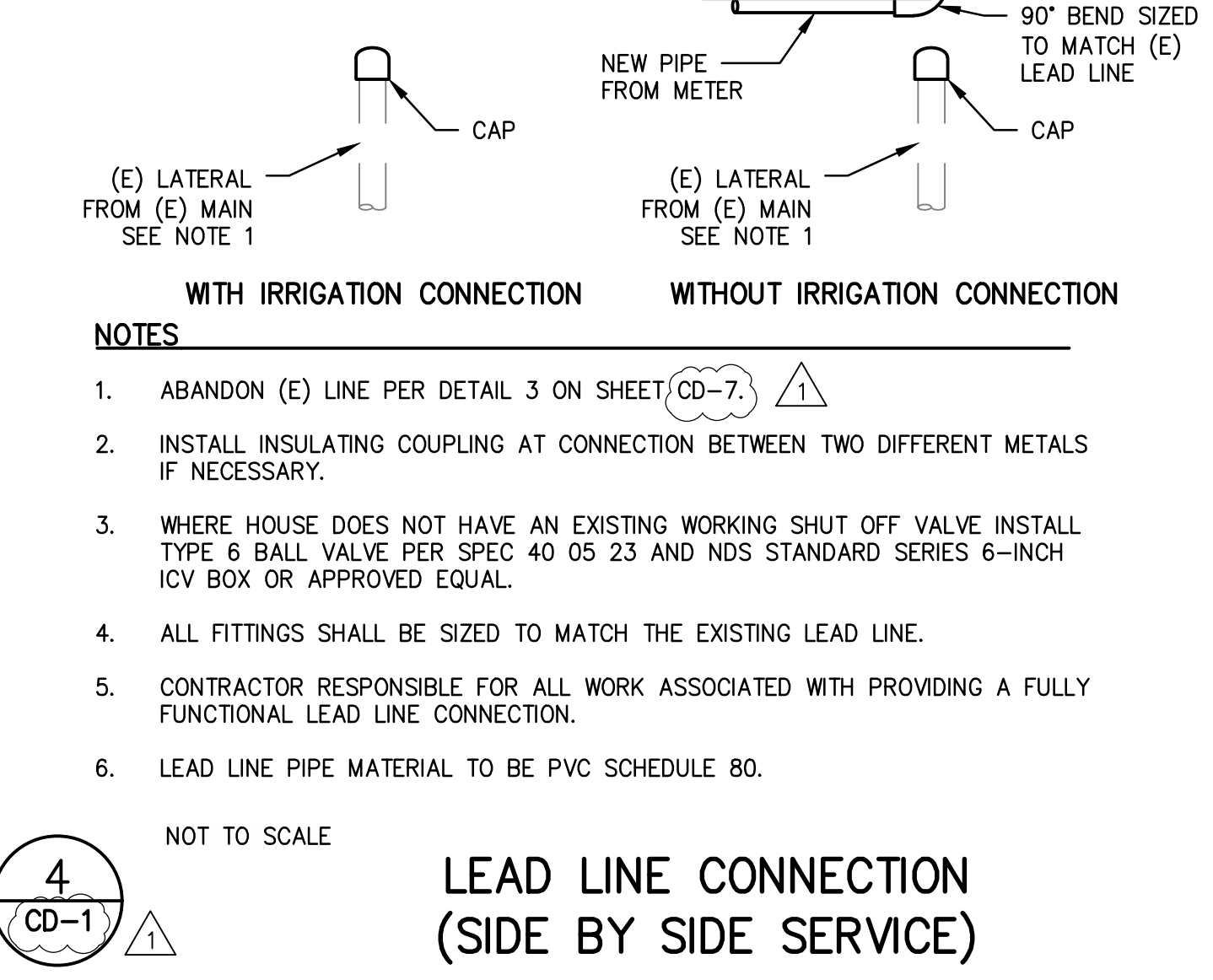
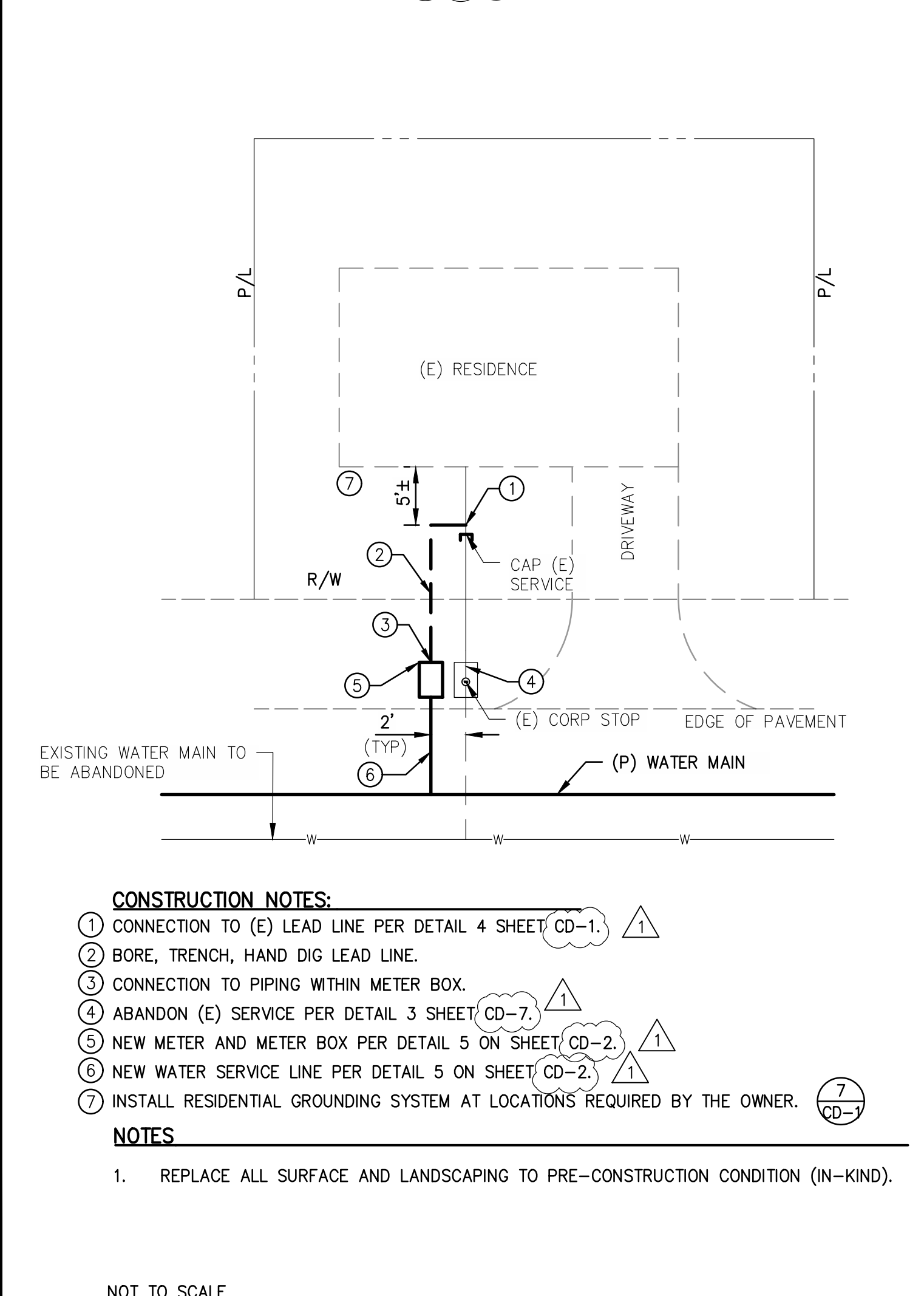
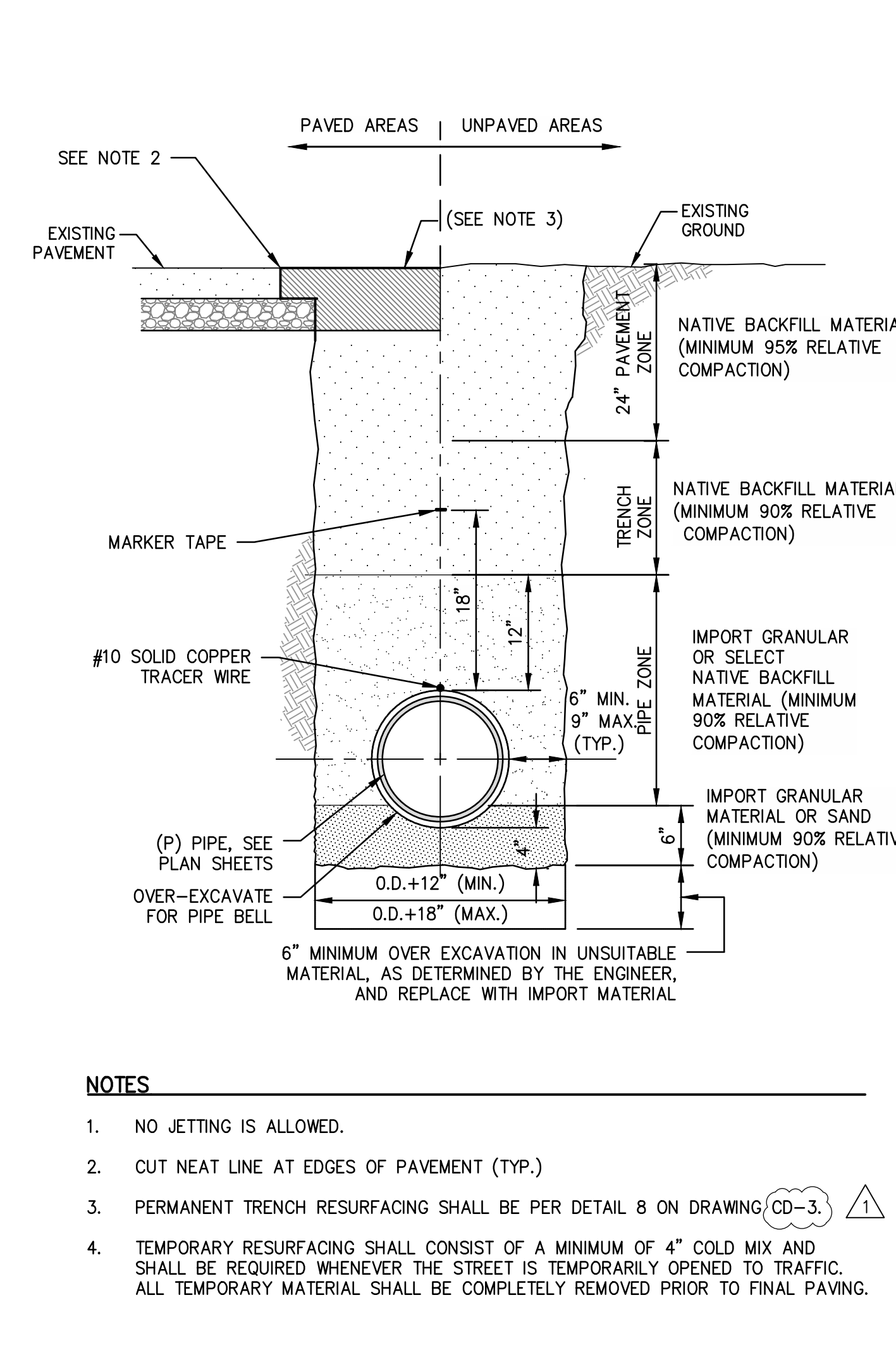
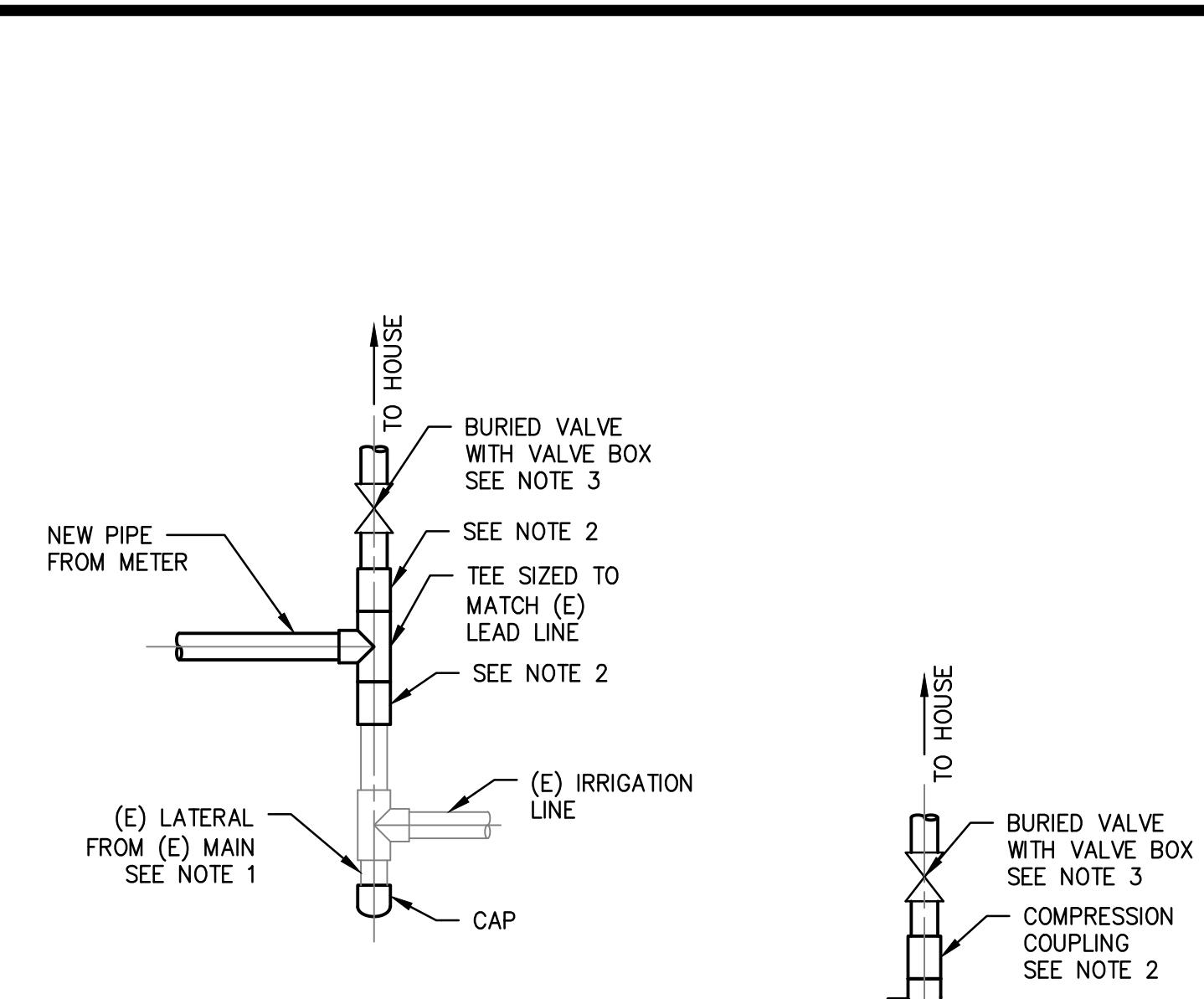
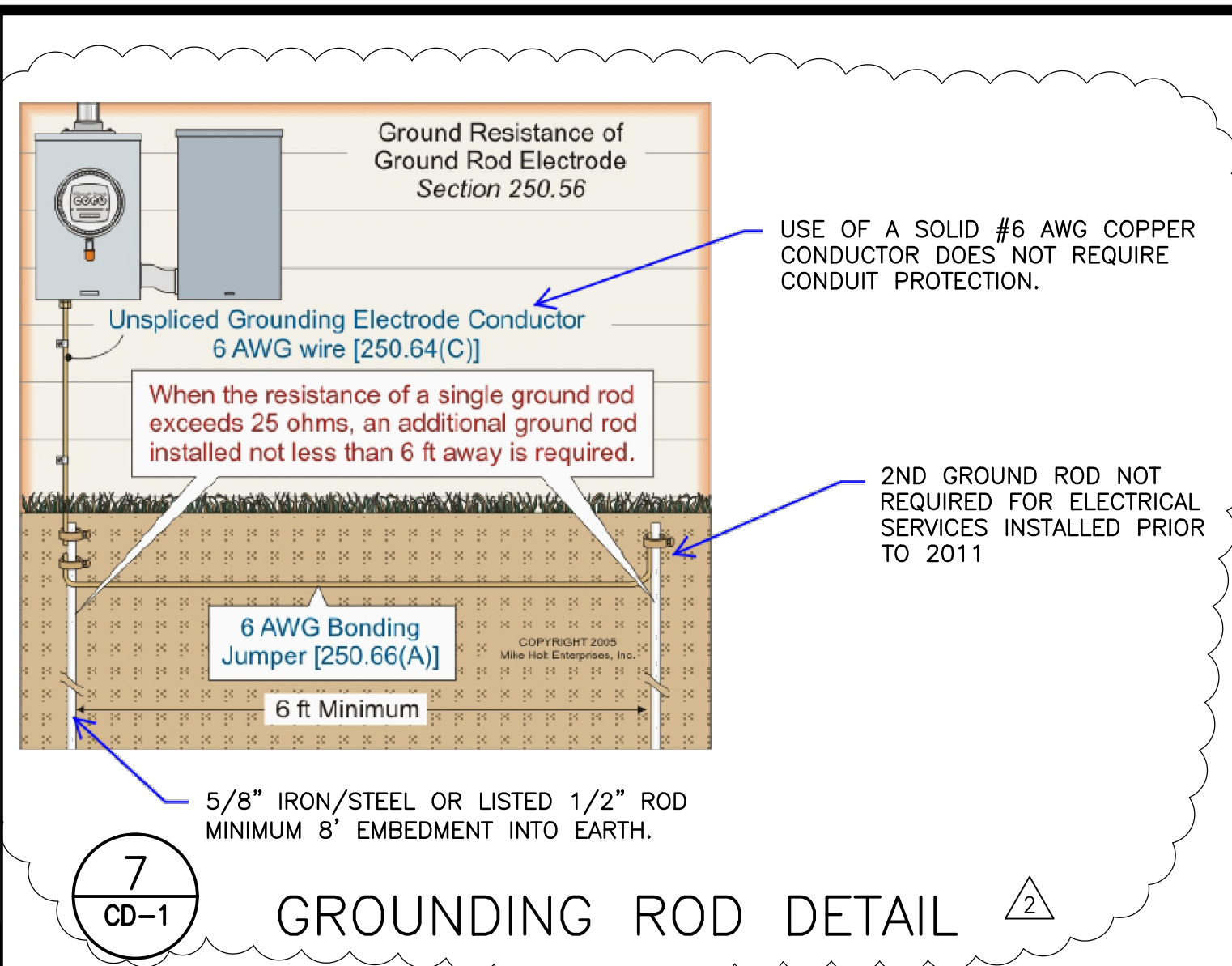
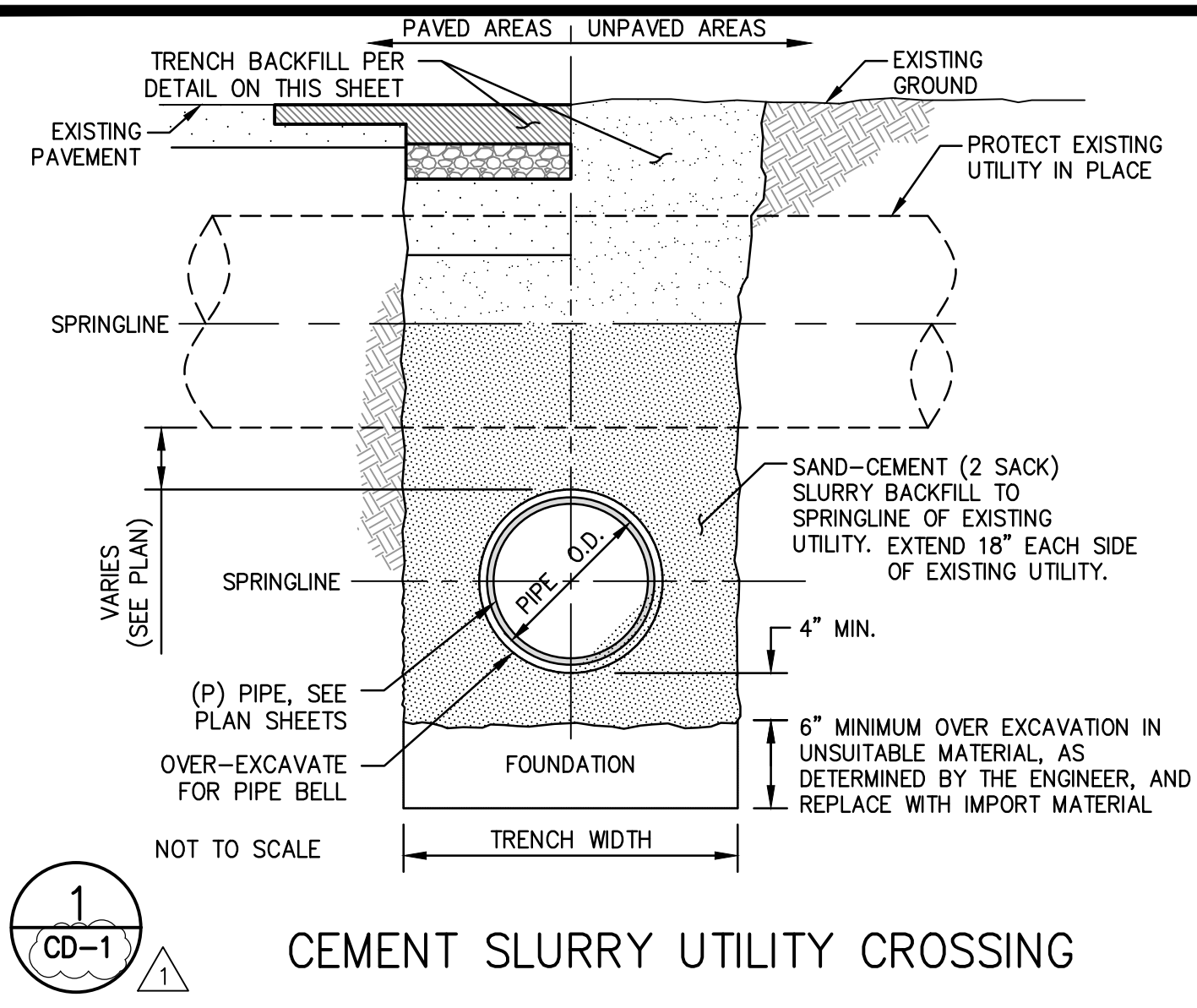
CONSTRUCTION NOTES

1. CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
2. EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
3. PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS & 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).
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.



	DATE 06/30/2020	RECORD DRAWING	SCALE		PROJECT	
DESIGNED: JDL	06/30/2020	RESIDENT ENGINEER	SCALE IN FEET 	 ENGINEER OF RECORD DATE 11/15/2022	CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	 DEPARTMENT OF PUBLIC WORKS AND PLANNING W CLARKSON AVE SOUTH STA 234+03 TO 236+71 CSA 32 CANTUA CREEK
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES AS-BUILT REVISIONS	ROAD NO. N/A BRIDGE NO. N/A		COUNTY OF FRESNO DRAWING NO. 11305 SHEET NO. C2-12 TOTAL 34	
CHECKED: MWK	06/30/2020					

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



1 CEMENT SLURRY UTILITY CROSSING

7 GROUNDING ROD DETAIL

5 CSA 32 MOBILE HOME CONCRETE UTILITY PAD

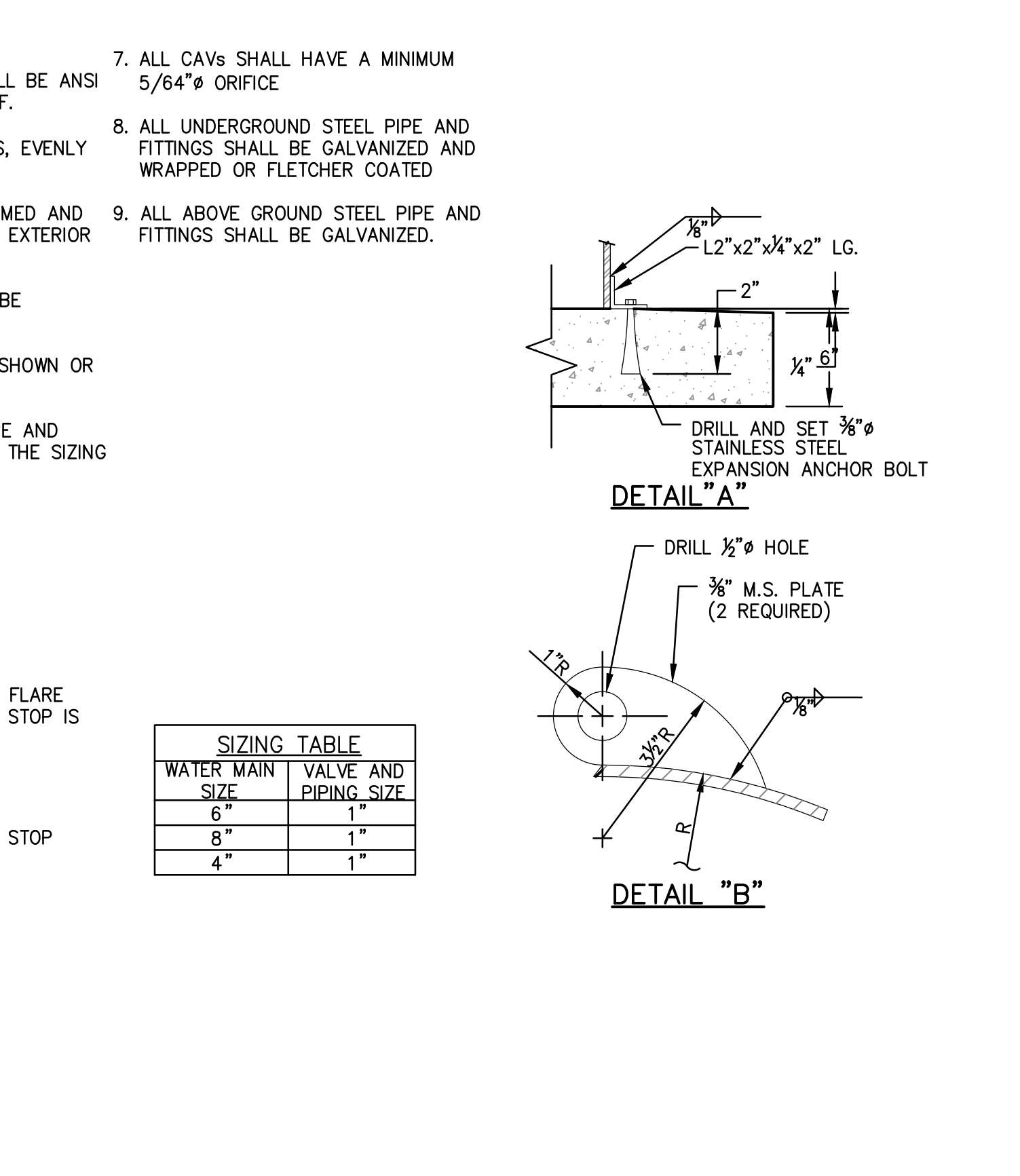
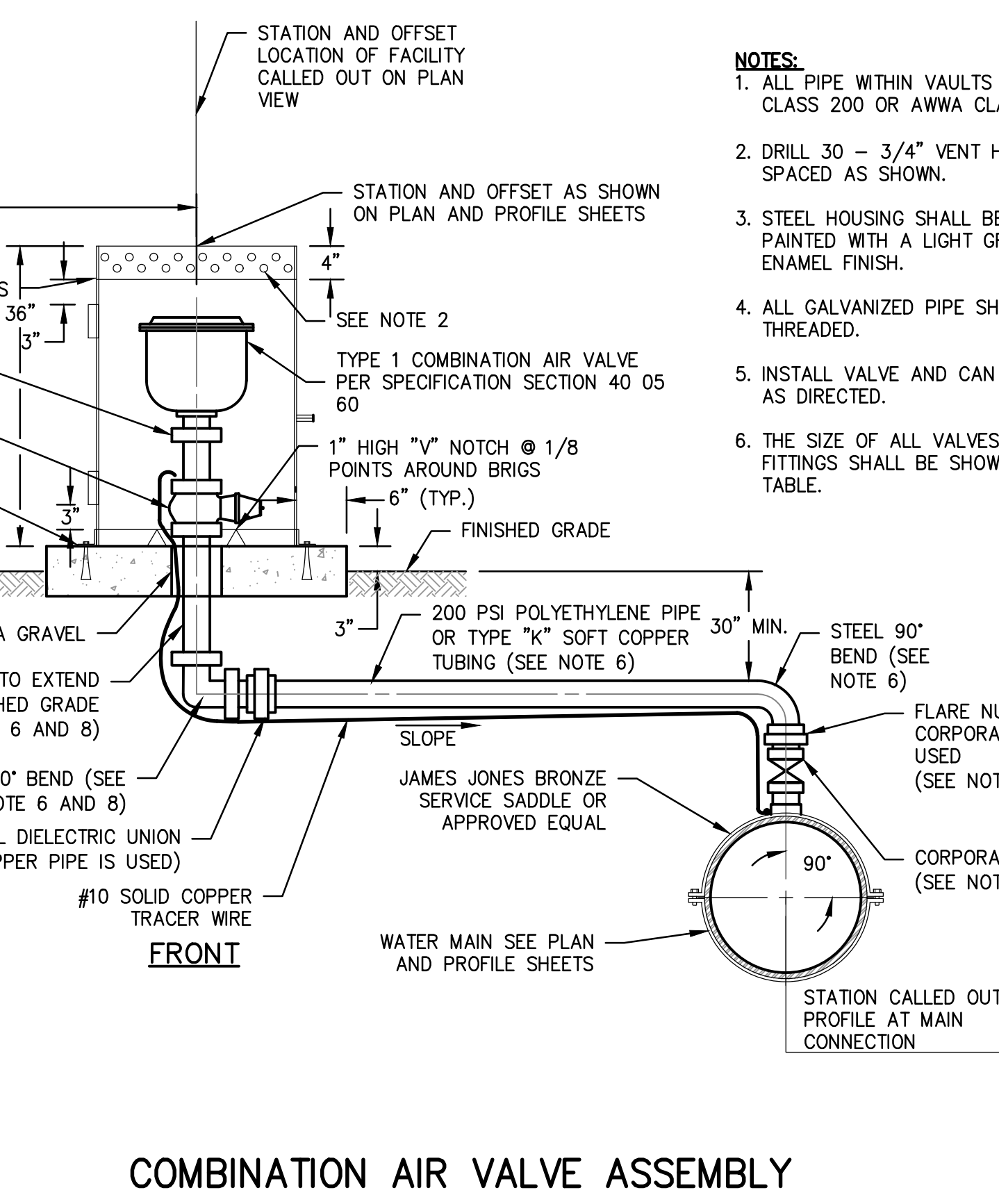
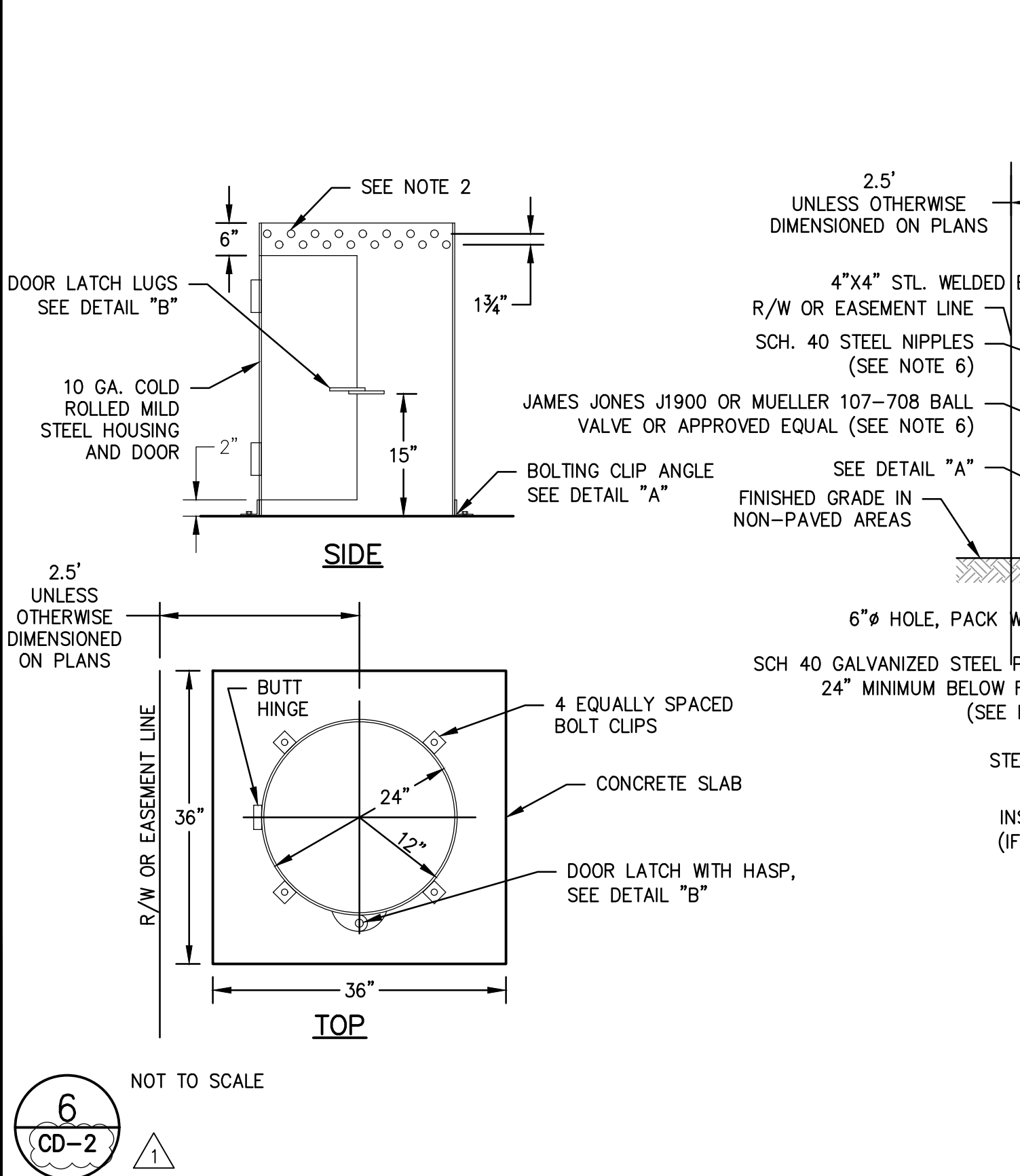
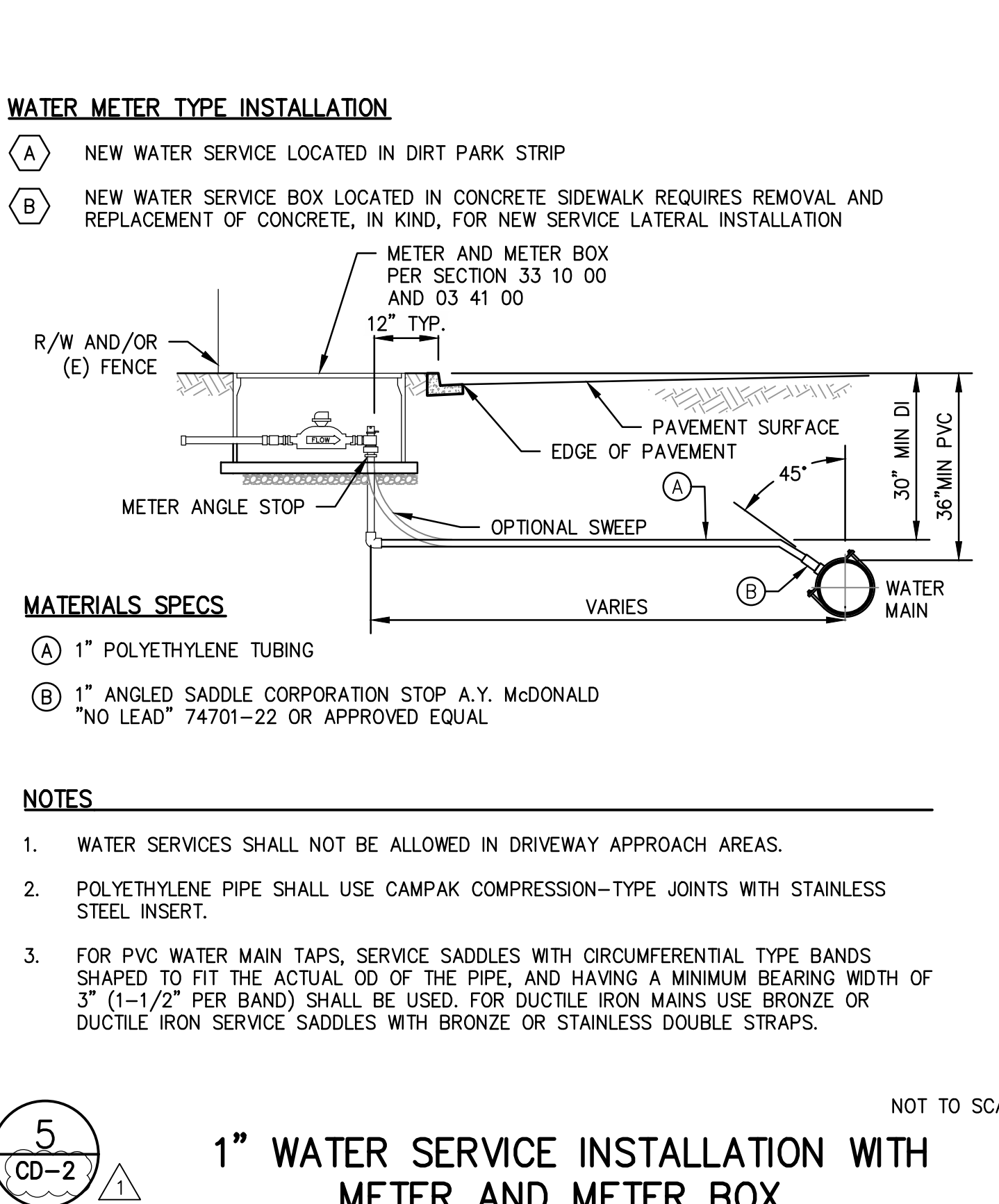
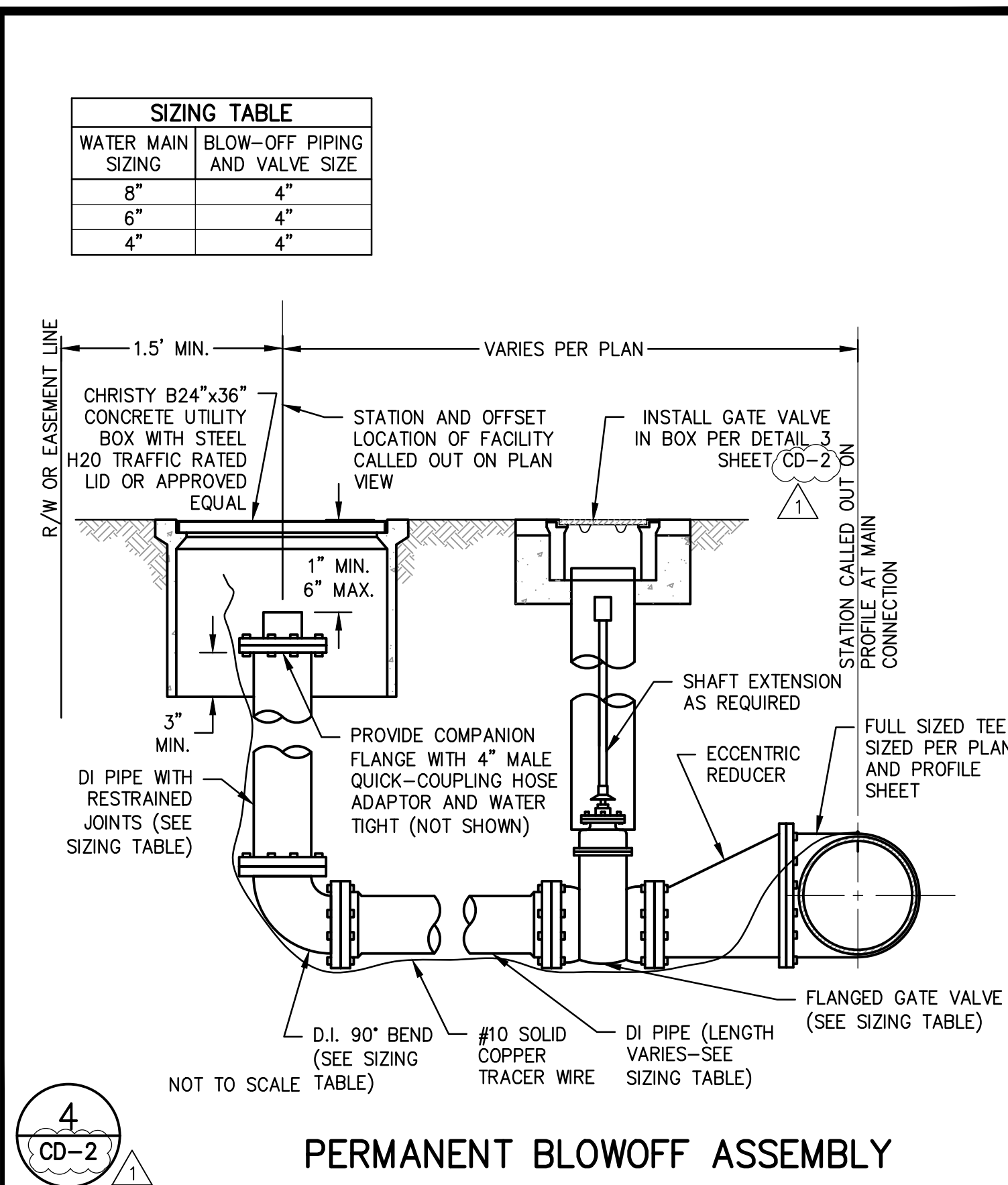
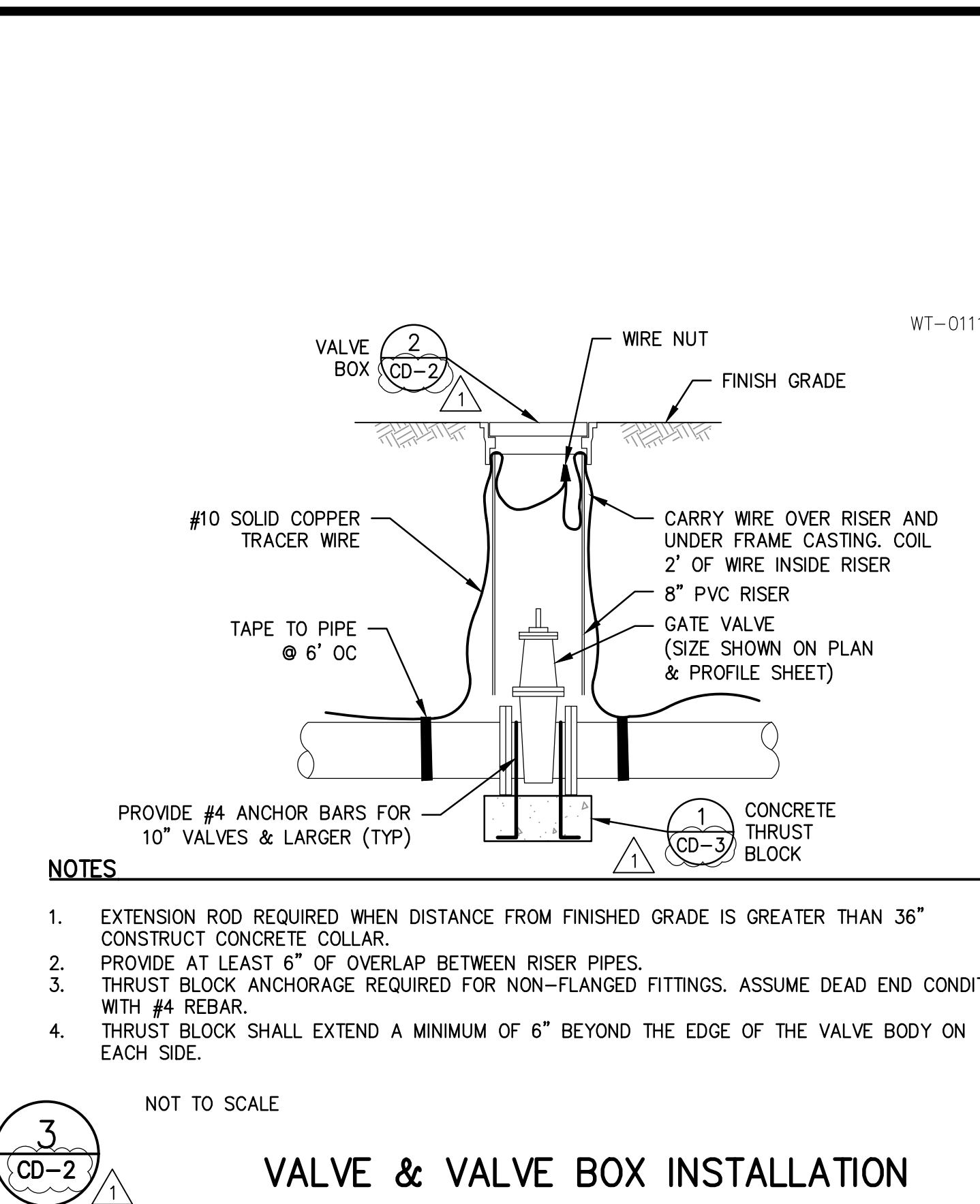
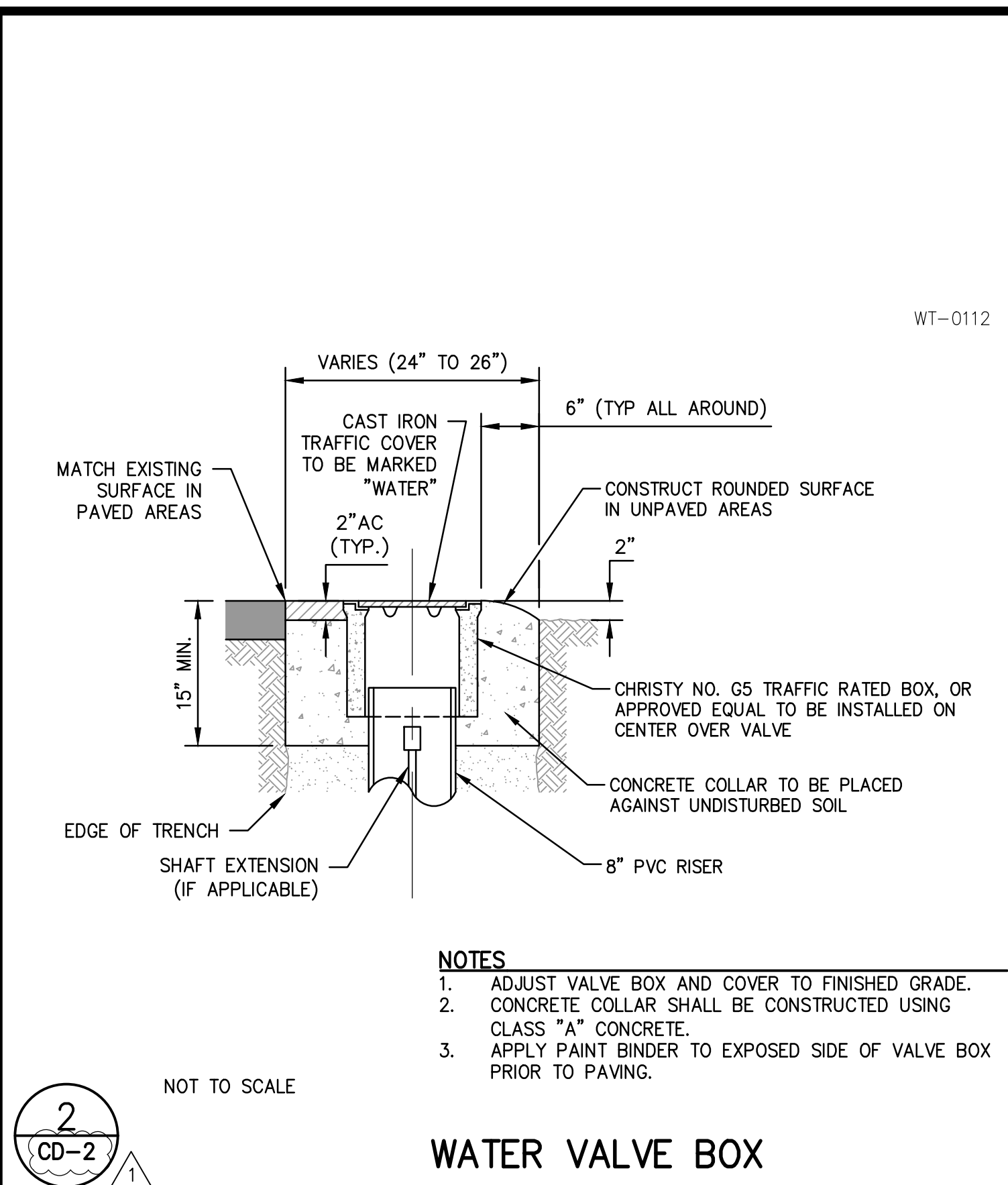
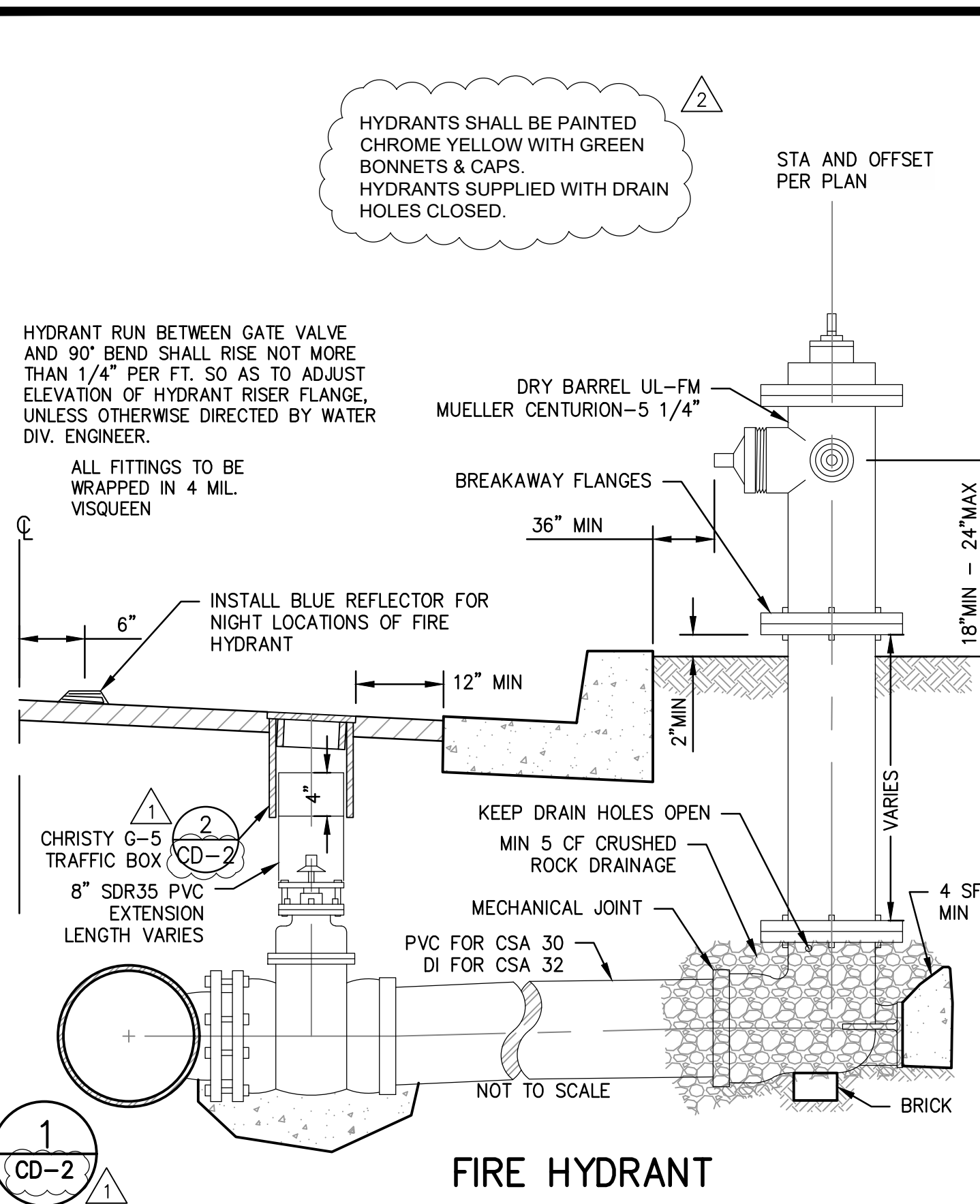
2 PIPE BEDDING AND TRENCH BACKFILL

4 LEAD LINE CONNECTION (SIDE BY SIDE SERVICE)

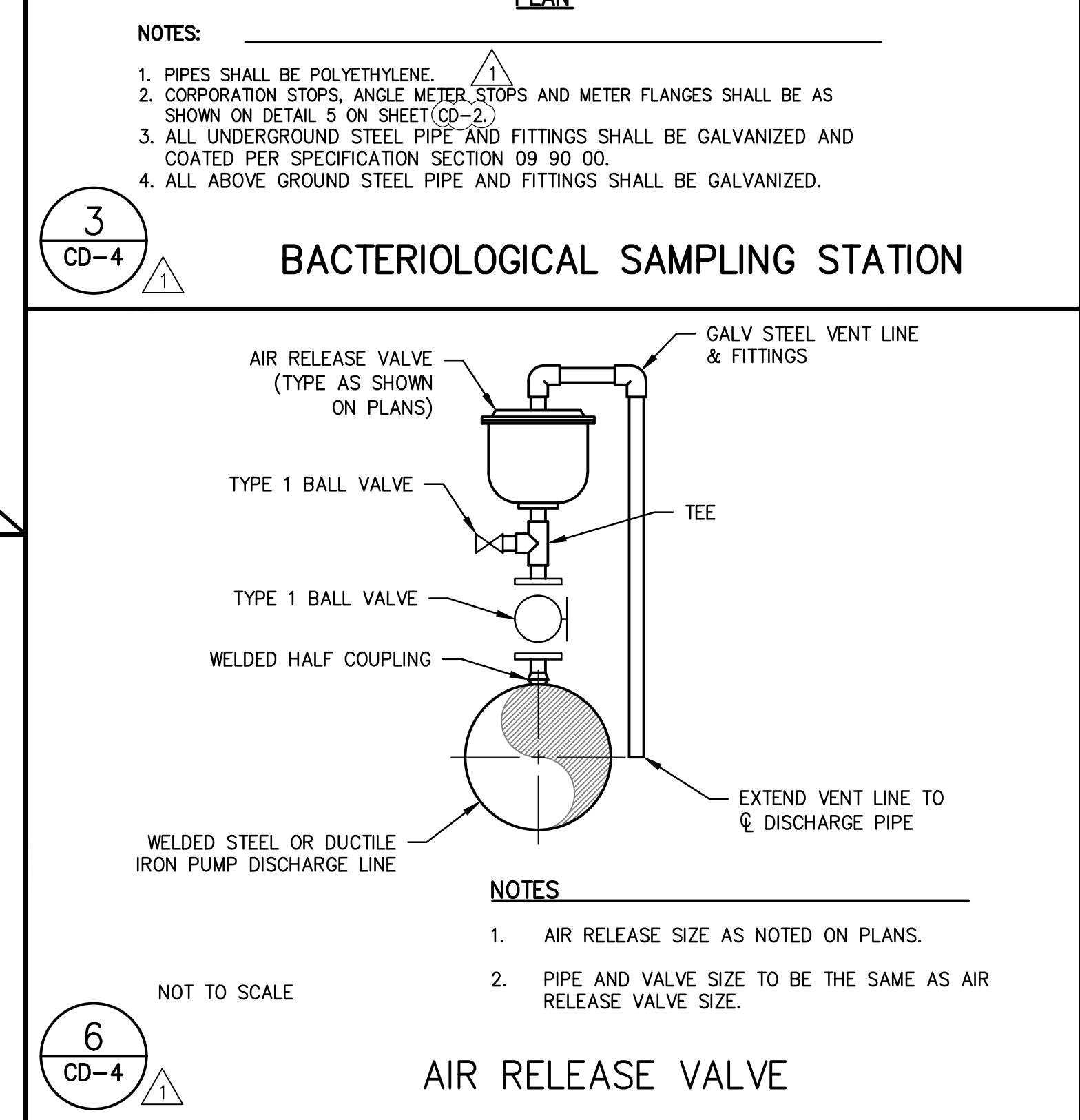
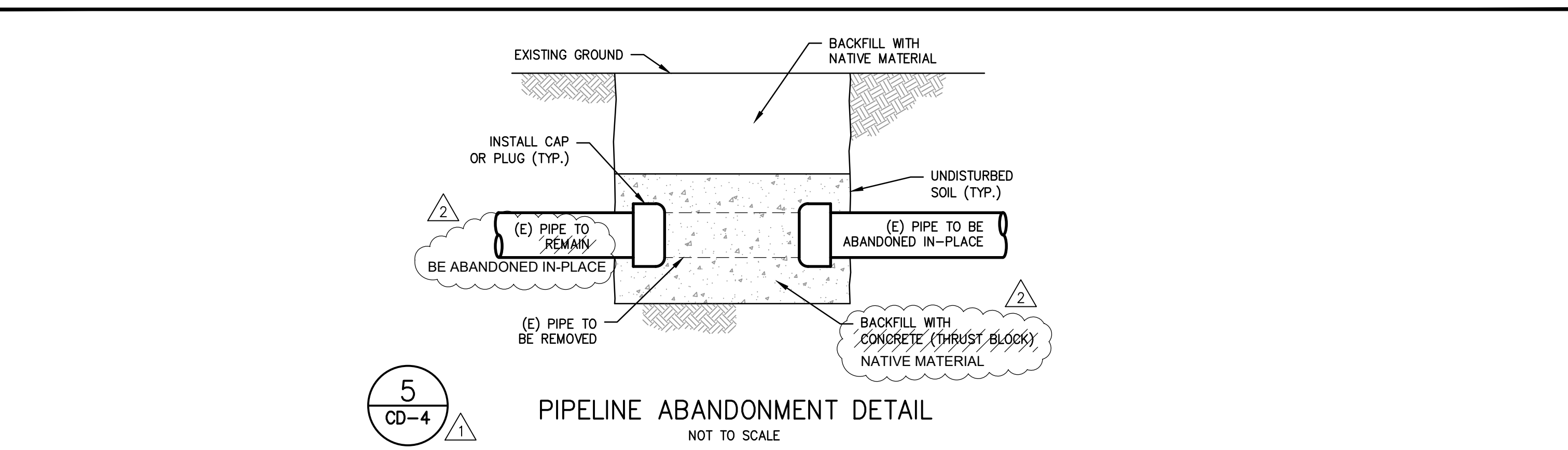
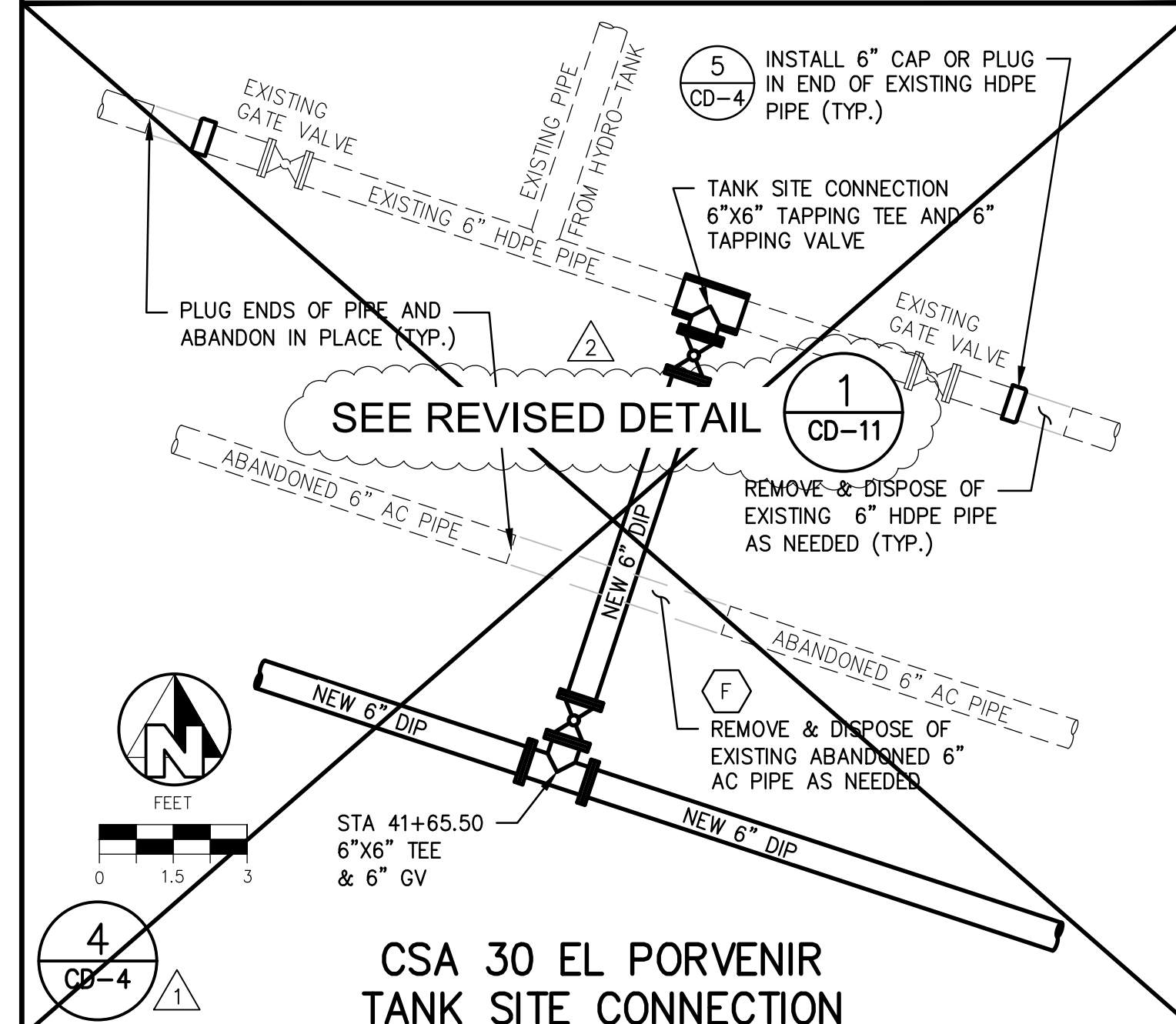
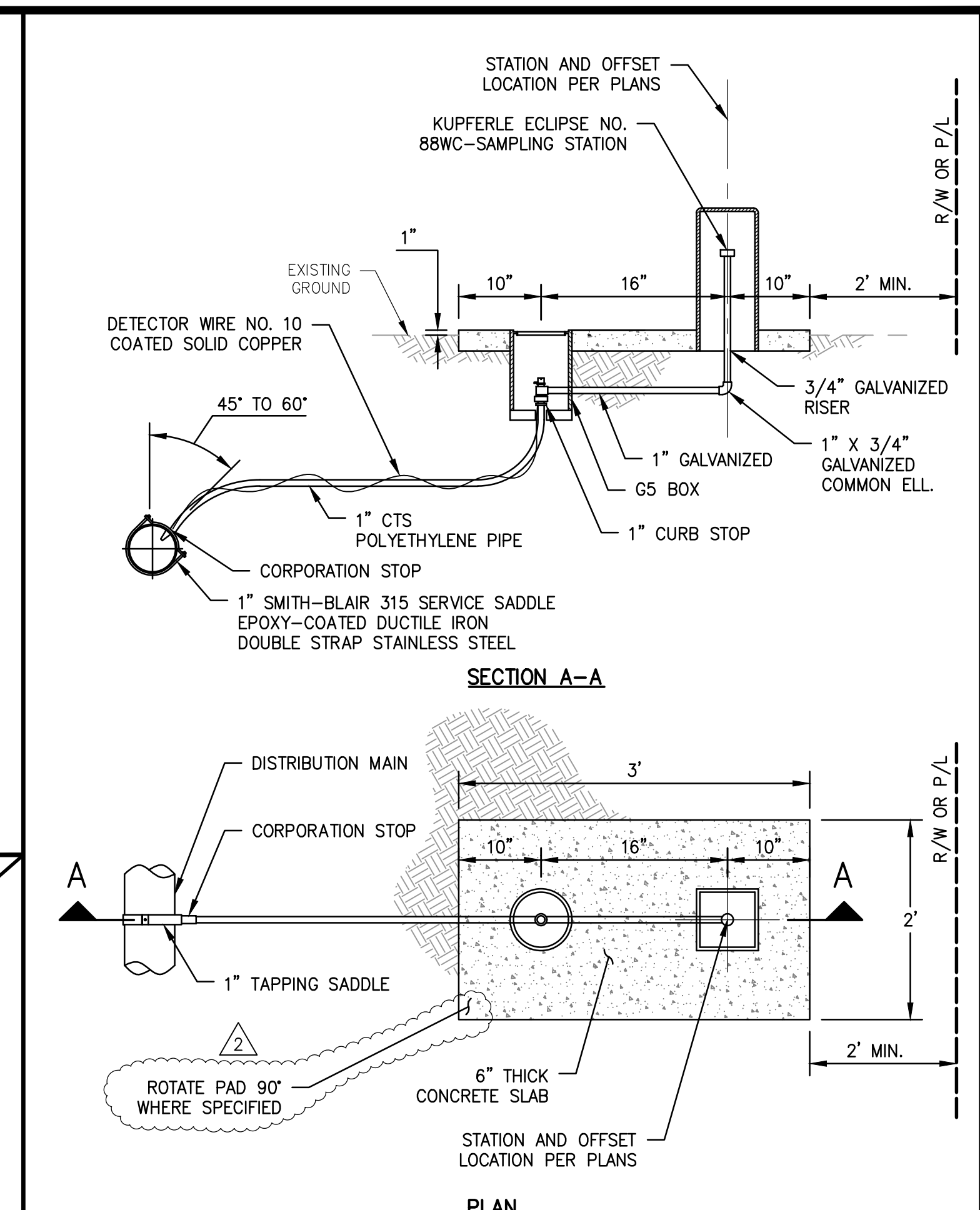
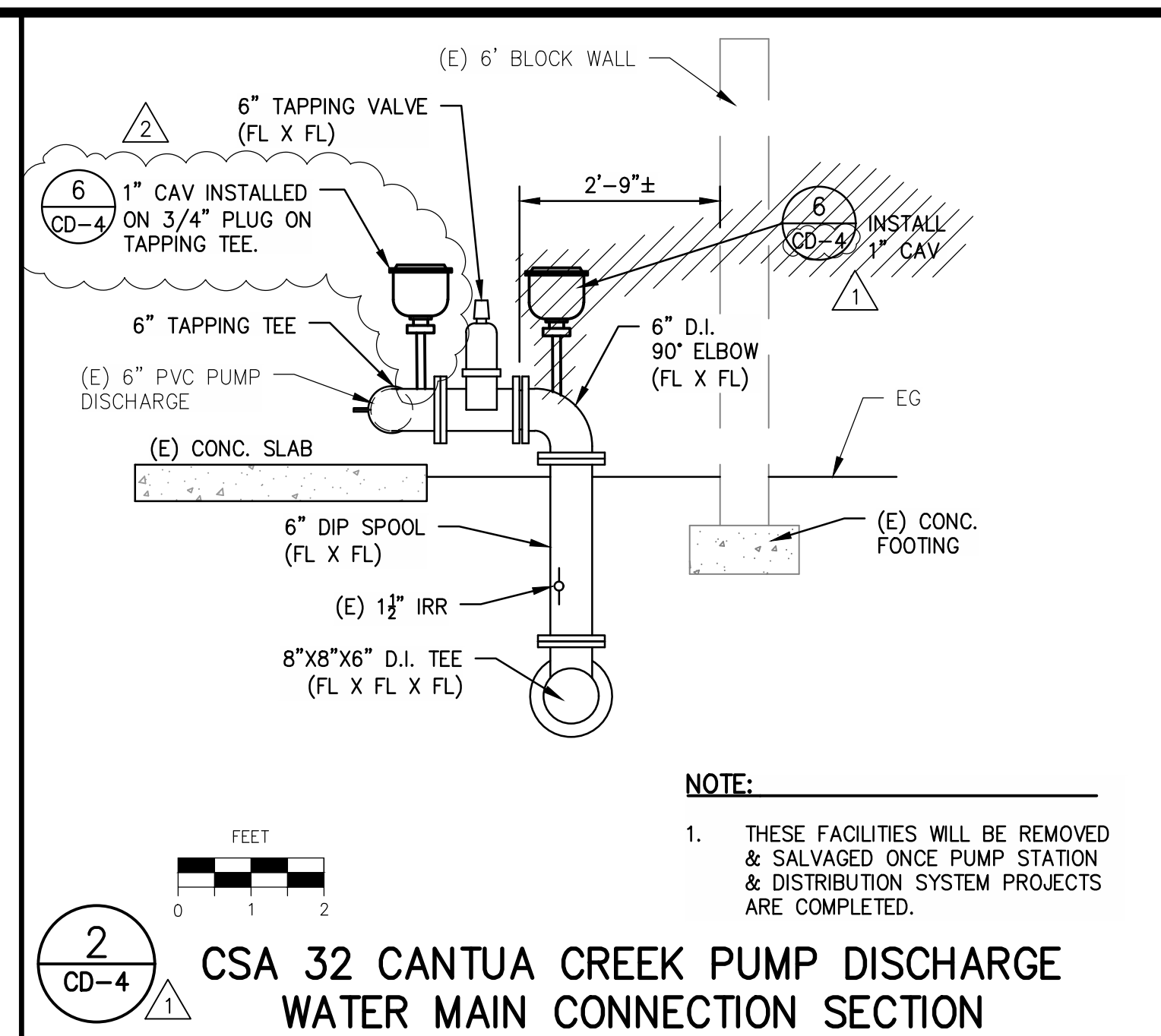
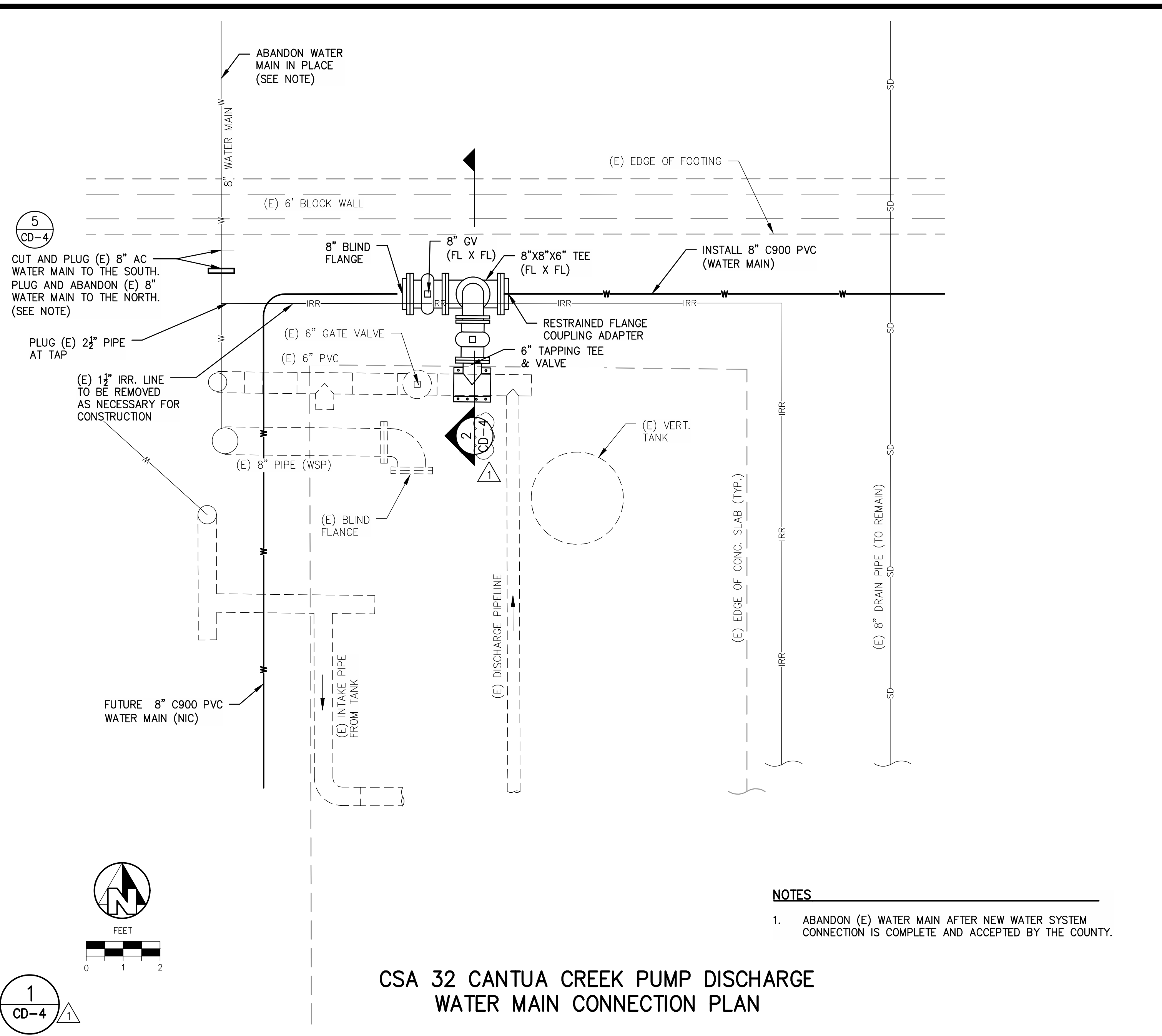
3 1\"/>

6 CSA 32 1\"/>

DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020		PROJECT: CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022		COUNTY OF FRESNO		CONSTRUCTION DETAILS 1
CHECKED: MWK	06/30/2020	AS-BUILT REVISIONS	DATE		ROAD NO. N/A		BRIDGE NO. N/A



DESIGNED: JDL DRAWN: PPI CHECKED: MWK	DATE: 06/30/2020 DATE: 06/30/2020 DATE: 06/30/2020	RECORD DRAWING RESIDENT ENGINEER ADDENDUM NO. 1 - SHEET REFERENCES AS-BUILT REVISIONS	DATE: 09/10/2020 DATE: 11/15/2022	SCALE	ENGINEER OF RECORD DATE: 11/15/2022	PROJECT CSA 30 & 32 WATER SYSTEM IMPROVEMENTS COUNTY OF FRESNO ROAD NO. N/A BRIDGE NO. N/A	DEPARTMENT OF PUBLIC WORKS AND PLANNING CONSTRUCTION DETAILS 2 DETAILS DRAWING NO. 11305 SHEET NO. CD-2 TOTAL 34
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DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020
DRAWN: PPI	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022
CHECKED: MWK	06/30/2020	AS-BUILT REVISIONS	

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

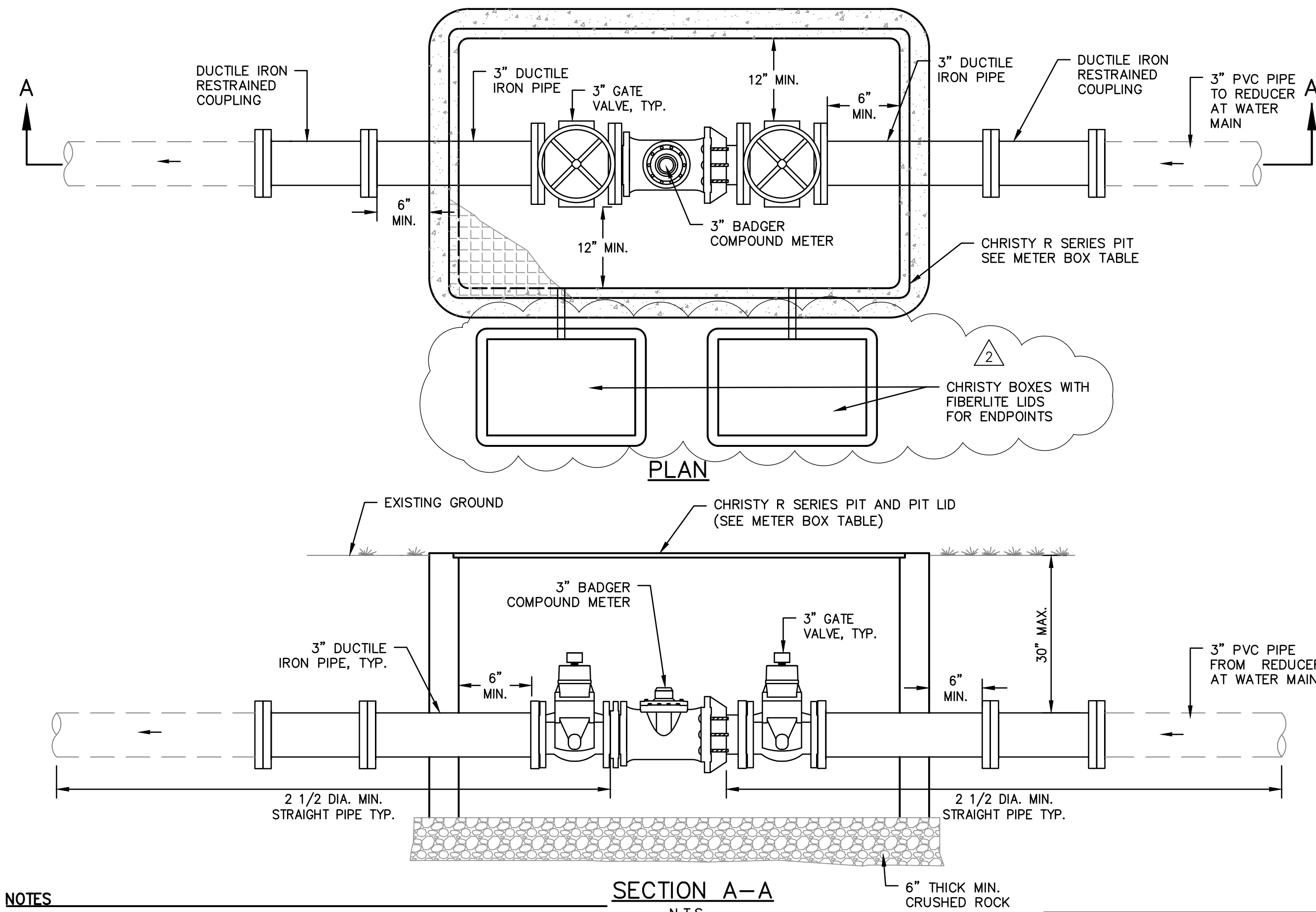
RECORD DRAWING

SCALE

PROJECT
 CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
 COUNTY OF FRESNO

DEPARTMENT OF PUBLIC WORKS AND PLANNING
CONNECTION & MISC DETAILS 1
 DETAILS

DRAWING NO. 11305 SHEET NO. CD-4 TOTAL 34



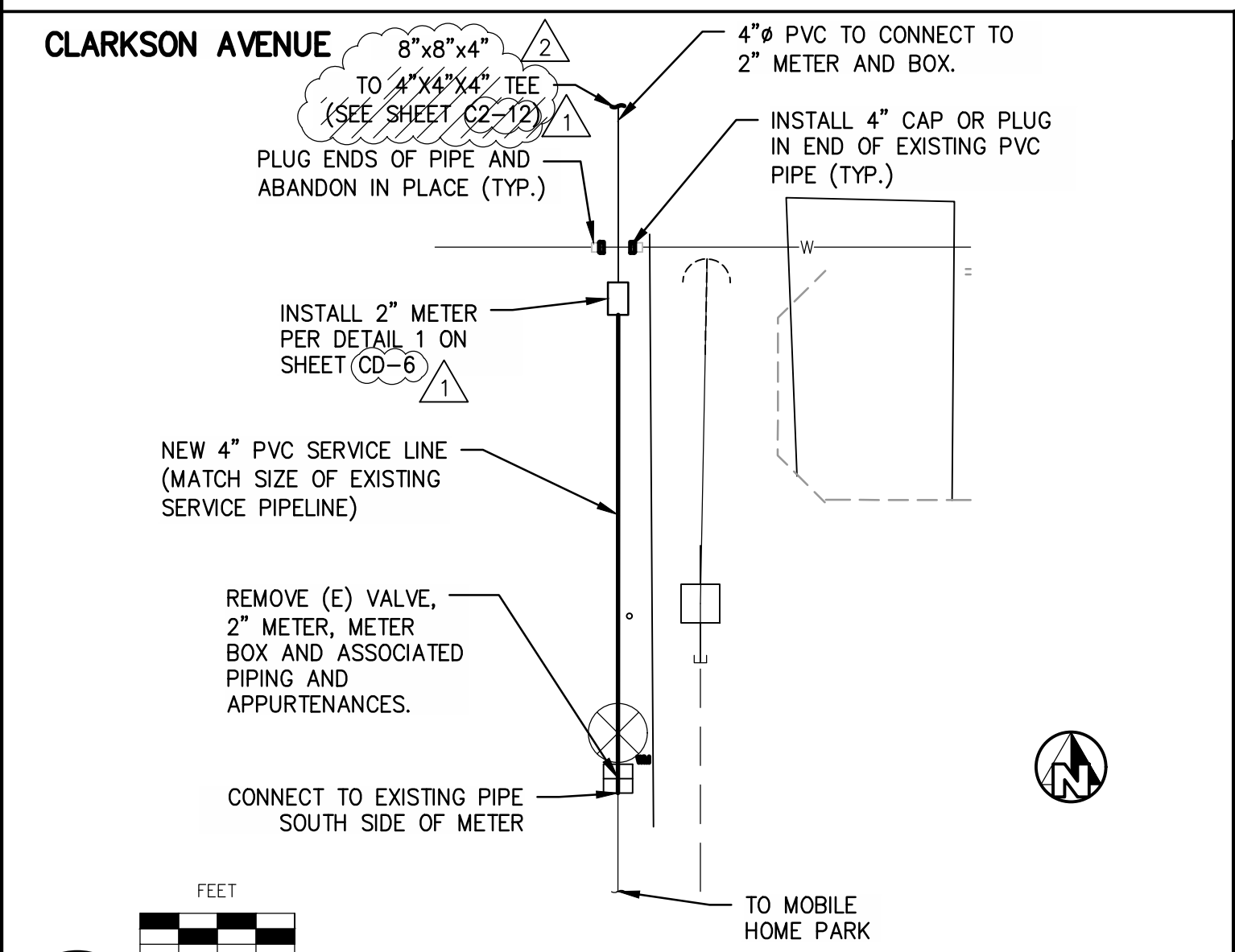
SECTION A-A
N.T.S.

- NOTES**
- PIPE AND FITTING SIZES SHALL MATCH METER SIZES IDENTIFIED IN TABLE.
 - SMITH-BLAIR FLANGE COUPLING ADAPTOR WITH ANCHOR STUDS OR APPROVED EQUAL MAY BE USED WITH ENGINEER'S APPROVAL TO CONNECT NEW PIPING TO EXISTING SERVICE PIPE.
 - METER VAULTS IN TRAFFIC AREA TO UTILIZE H2O RATE LID AS SHOWN ON THE PLANS.
 - ALL VAULTS SHALL INCLUDE 8" ROUND SELF-CLOSING READING LID.
 - METER BOX SHALL BE PLACED WHERE SHOWN ON THE PLANS.
 - ALL BURIED FITTINGS SHALL HAVE MECHANICAL JOINTS.

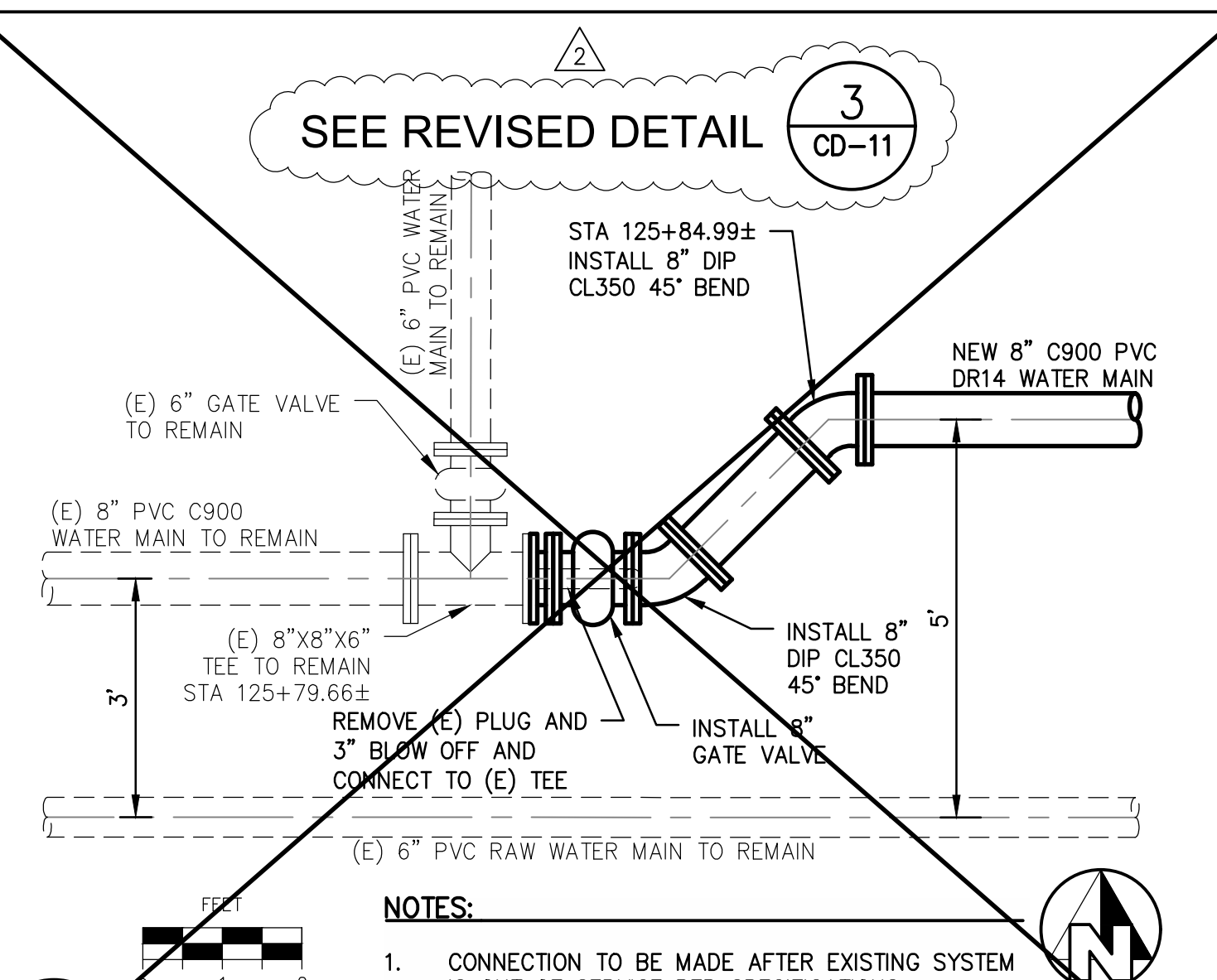
METER BOX TABLE		
METER SIZE	BOX TYPE	LID TYPE
3"	R17P36	R17-52J OR R17-52HT*

* SEE NOTES 5 AND 6.

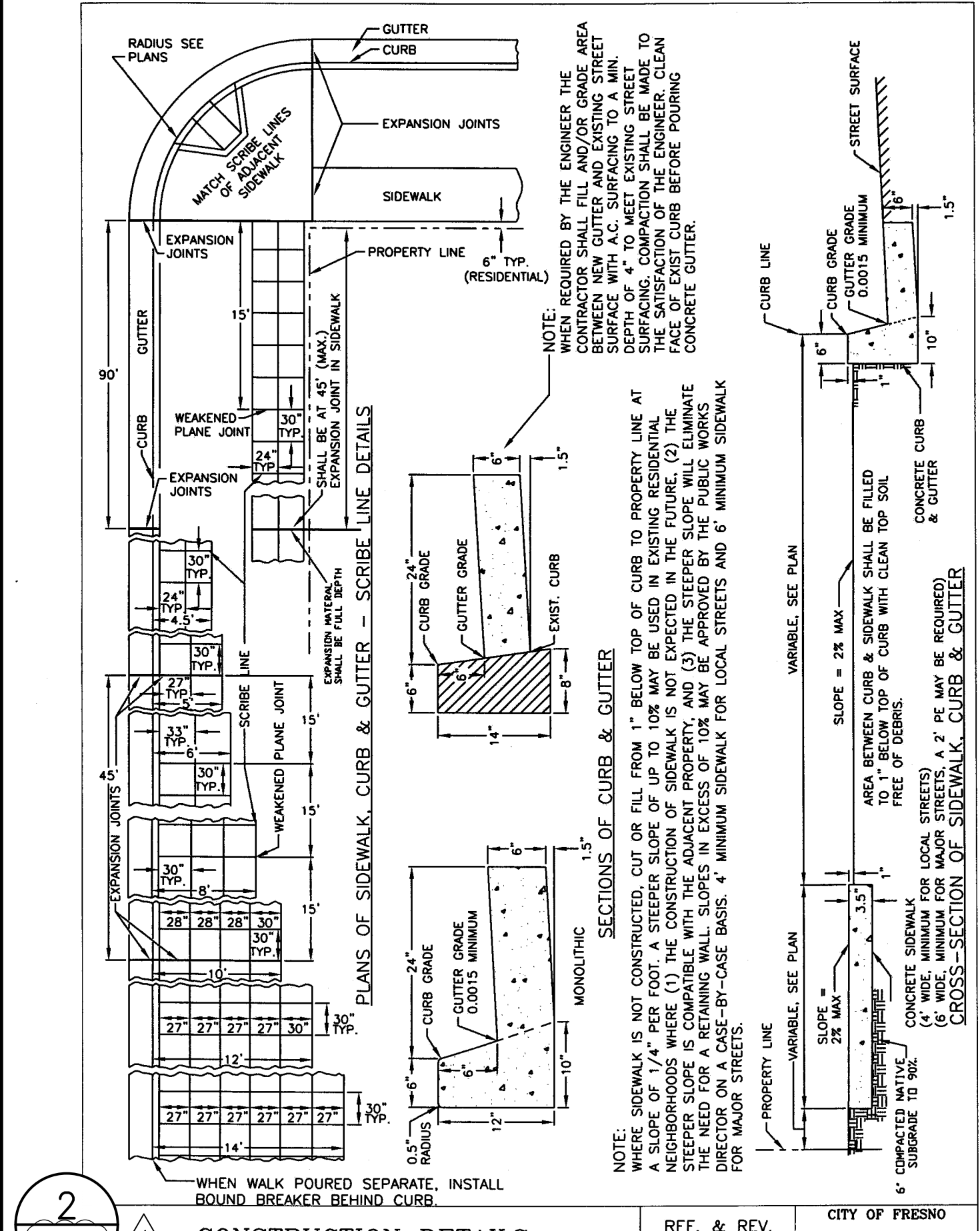
3" METER INSTALLATION
NOT TO SCALE



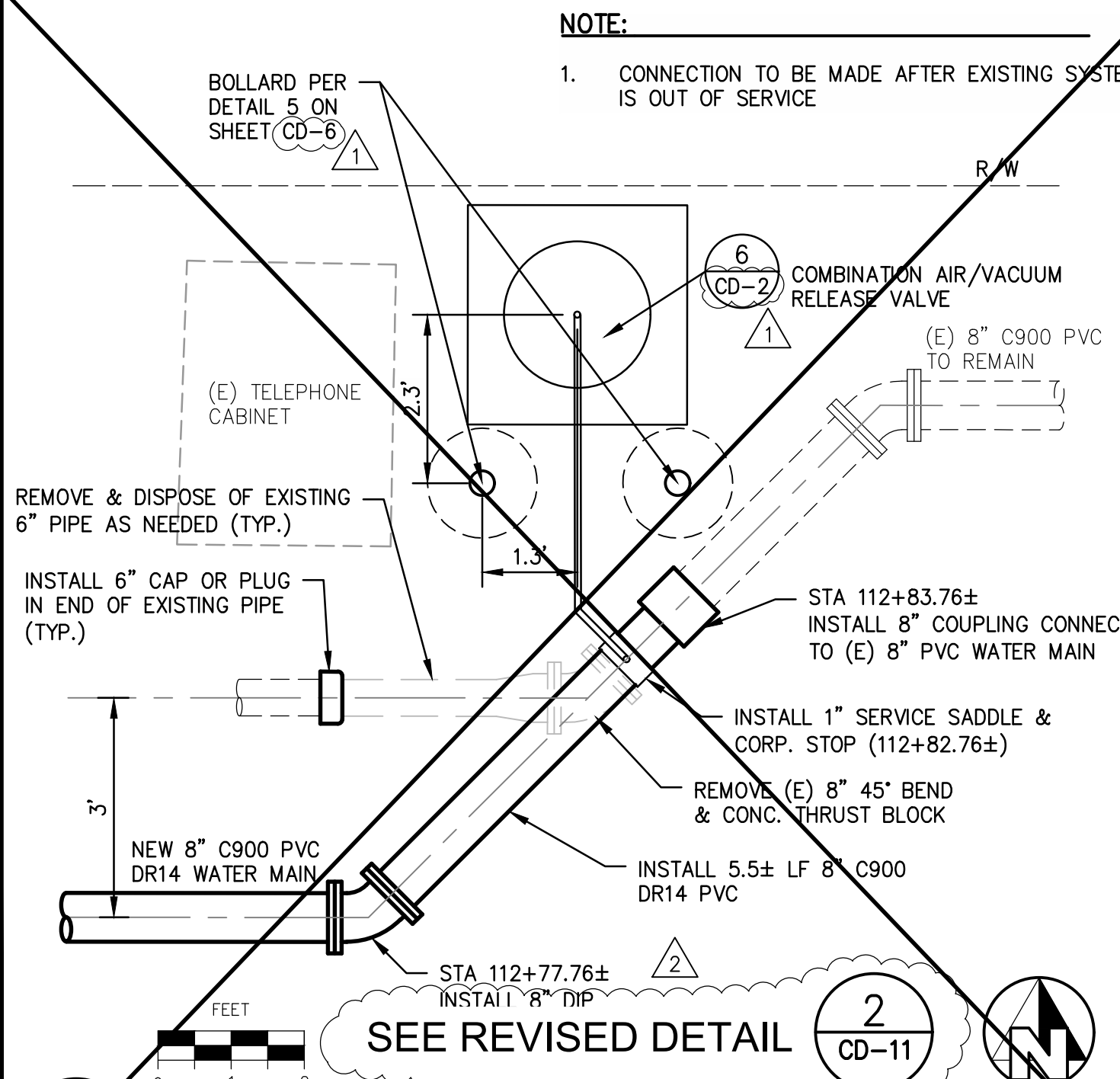
TYPE E MOBILE HOME PARK 4" SERVICE
2" METER AND METER BOX



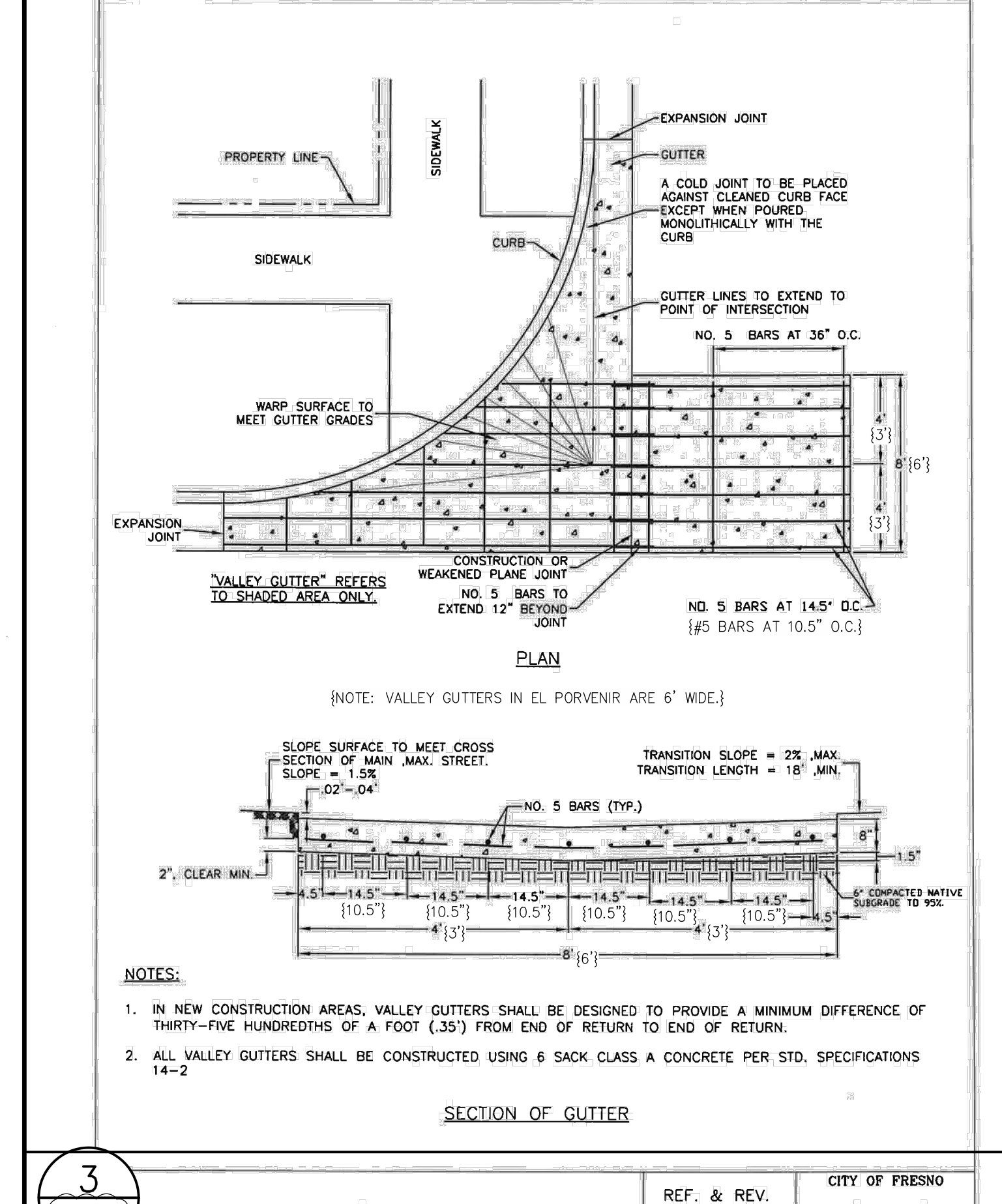
CLARKSON AVENUE CONNECTION 1



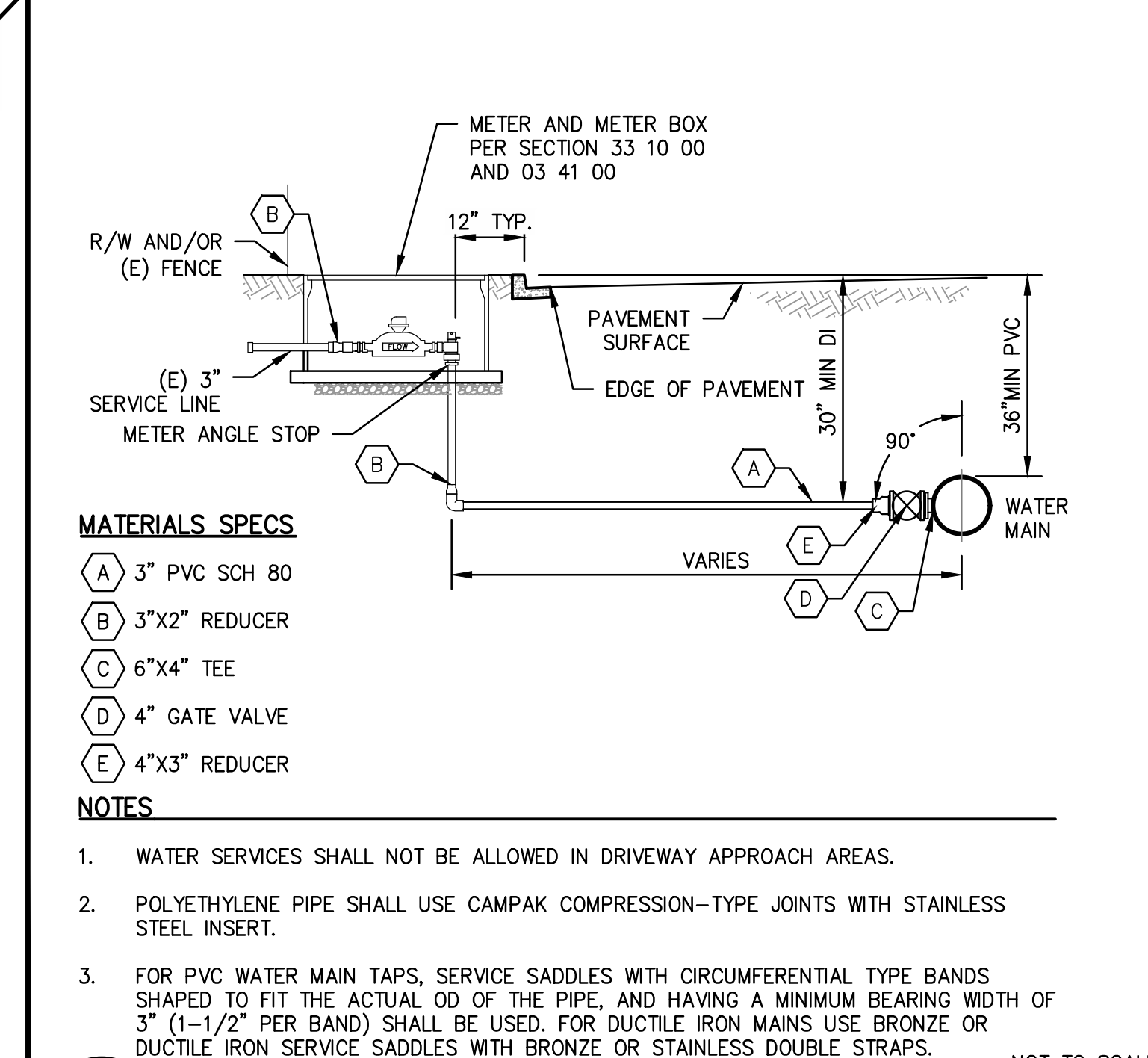
CONSTRUCTION DETAILS
FOR CONCRETE SIDEWALK, CURB & GUTTER



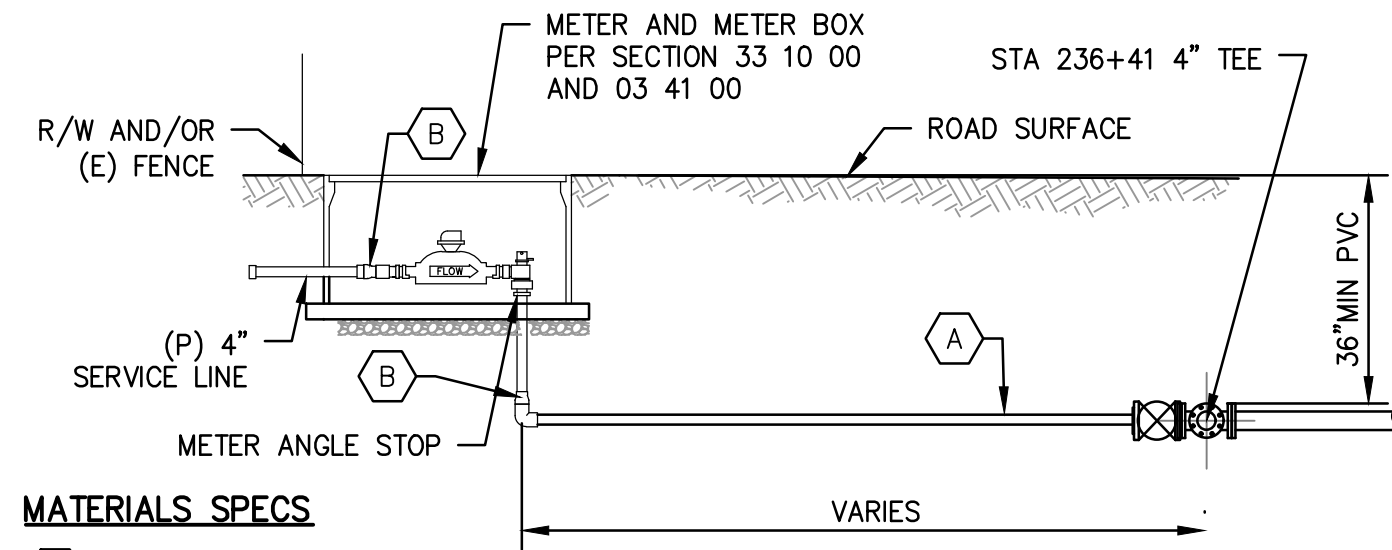
CLARKSON AVENUE CONNECTION 2



CONCRETE VALLEY GUTTER



3" WATER SERVICE, 2" METER AND METER BOX



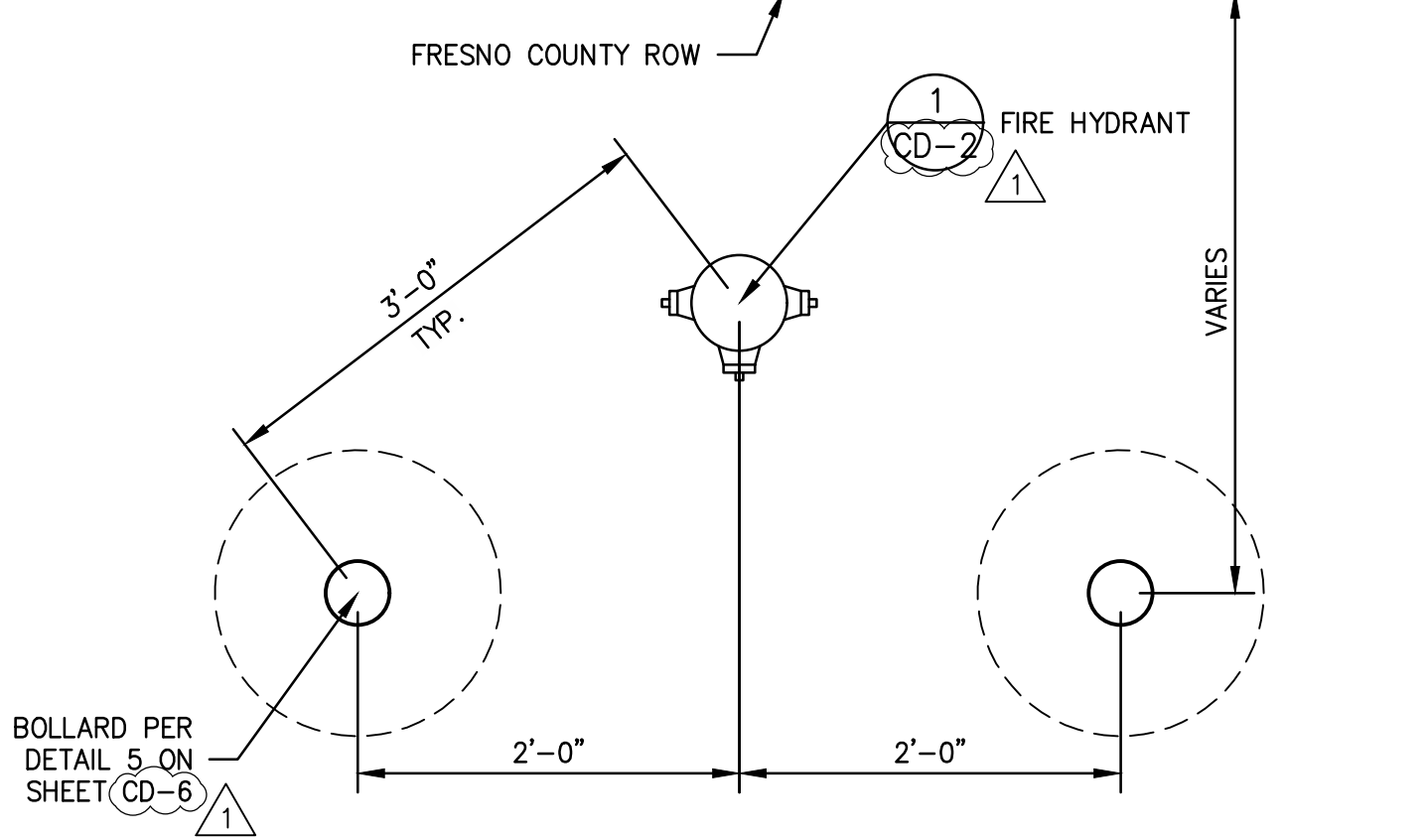
- MATERIALS SPECS**
- (A) 4" PVC DR 18
 - (B) 4"x2" REDUCER

NOTES

1. WATER SERVICES SHALL NOT BE ALLOWED IN DRIVEWAY APPROACH AREAS.

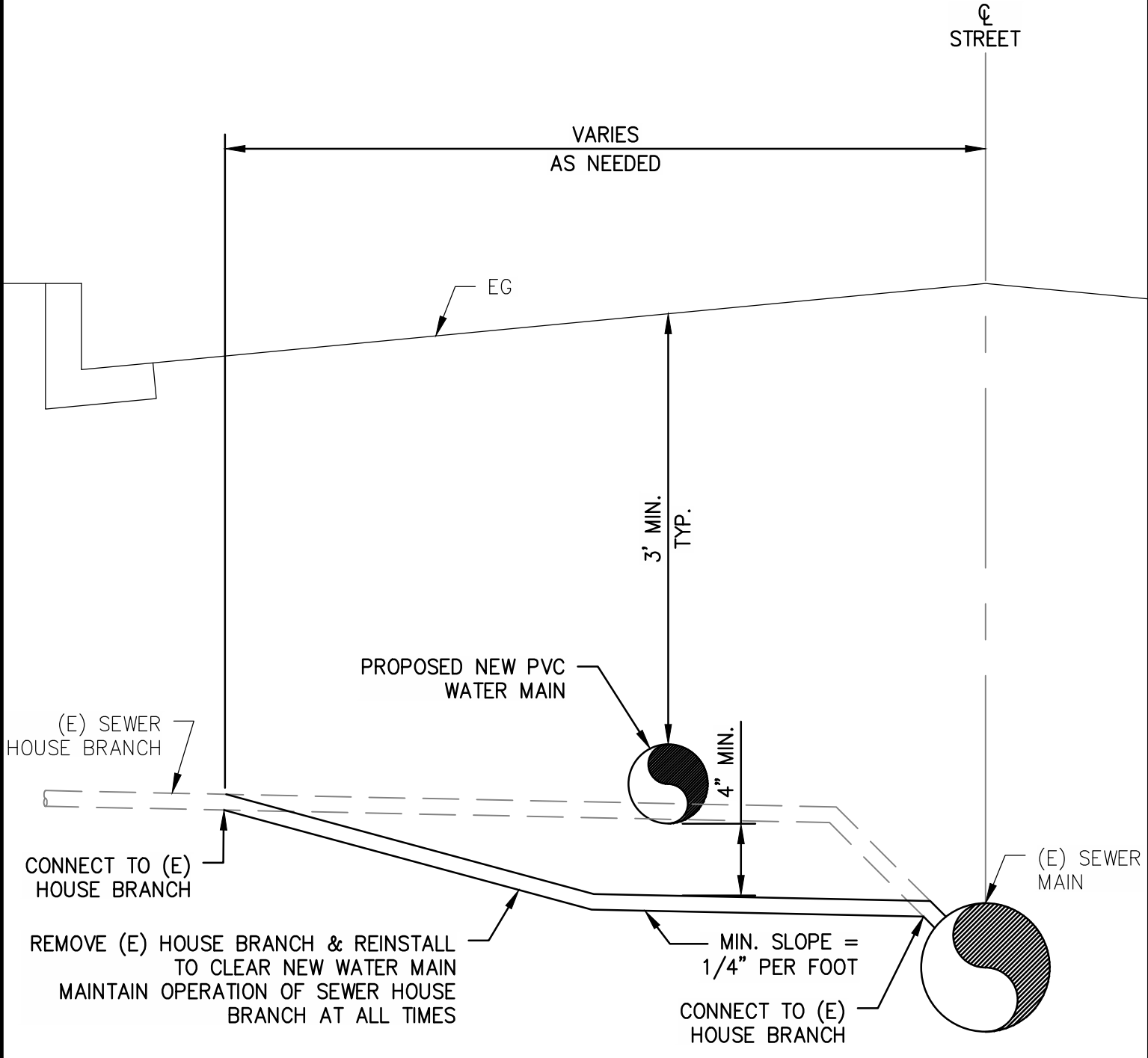
NOT TO SCALE

1
CD-6
4" WATER SERVICE, 2" METER AND METER BOX FOR MOBILE HOME PARK

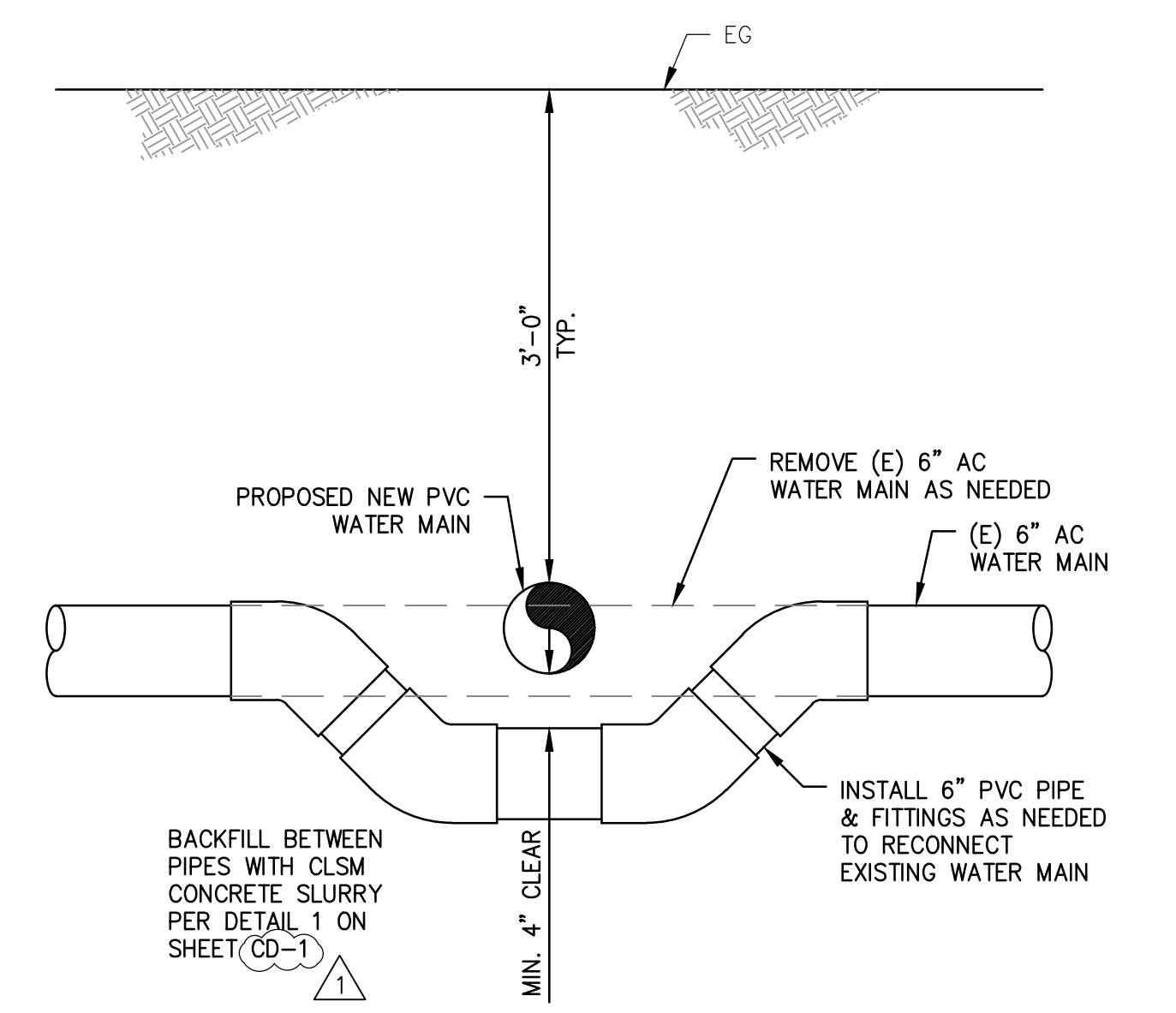


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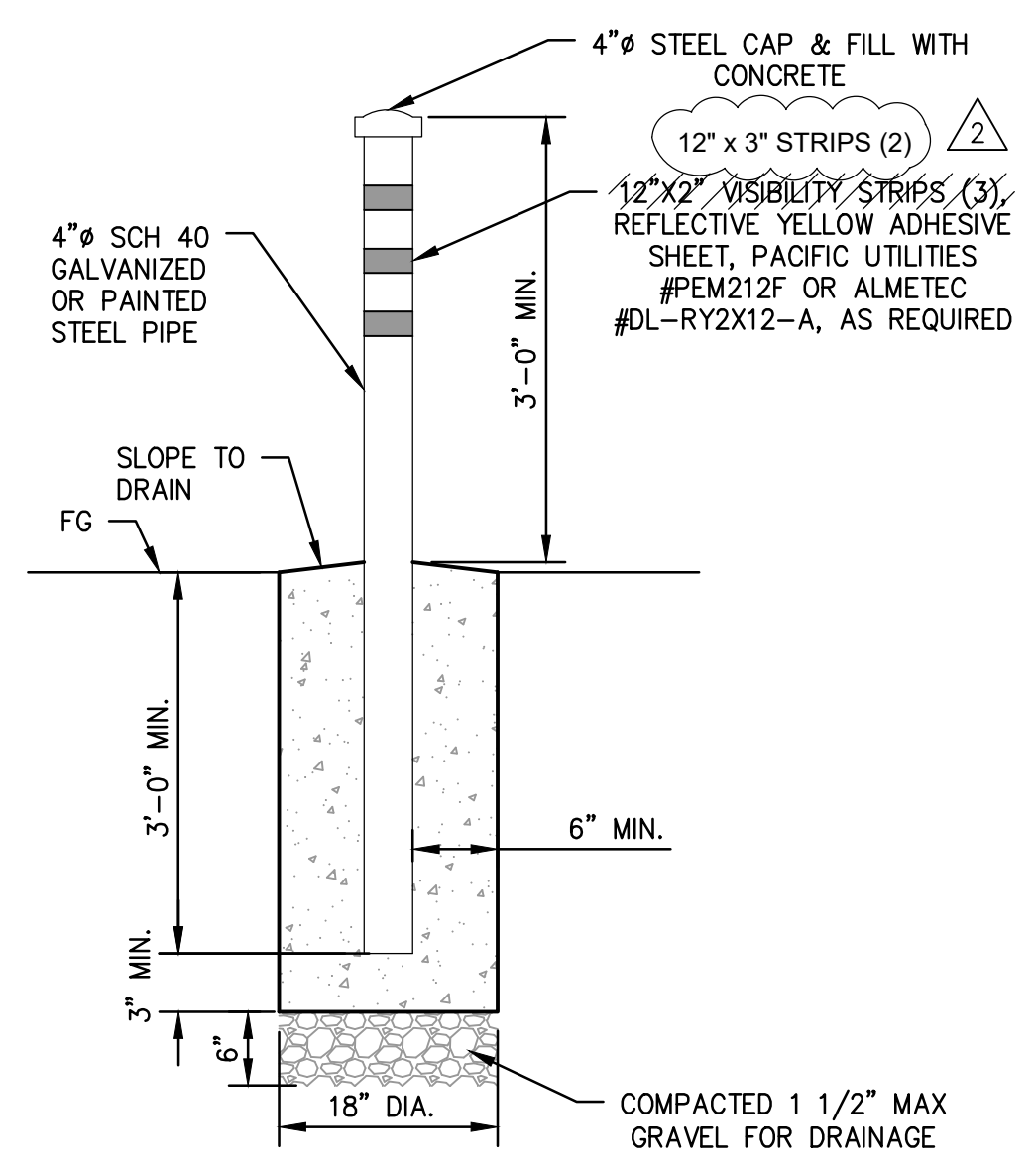
2
CD-6
FIRE HYDRANT BOLLARD LAYOUT



3
CD-6
SEWER SERVICE BYPASS CSA 32

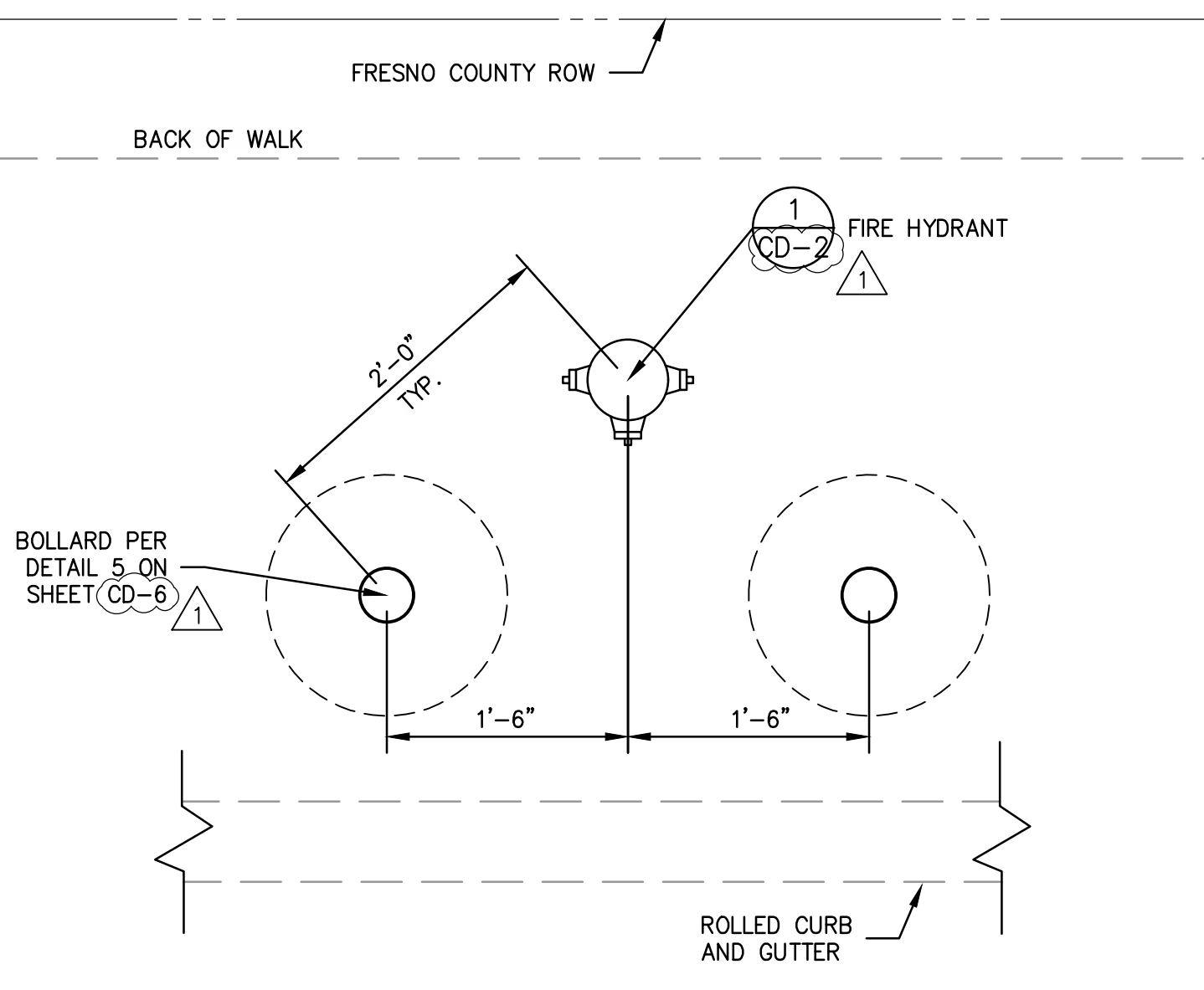


4
CD-6
TEMPORARY RELOCATION OF EXISTING WATER MAIN



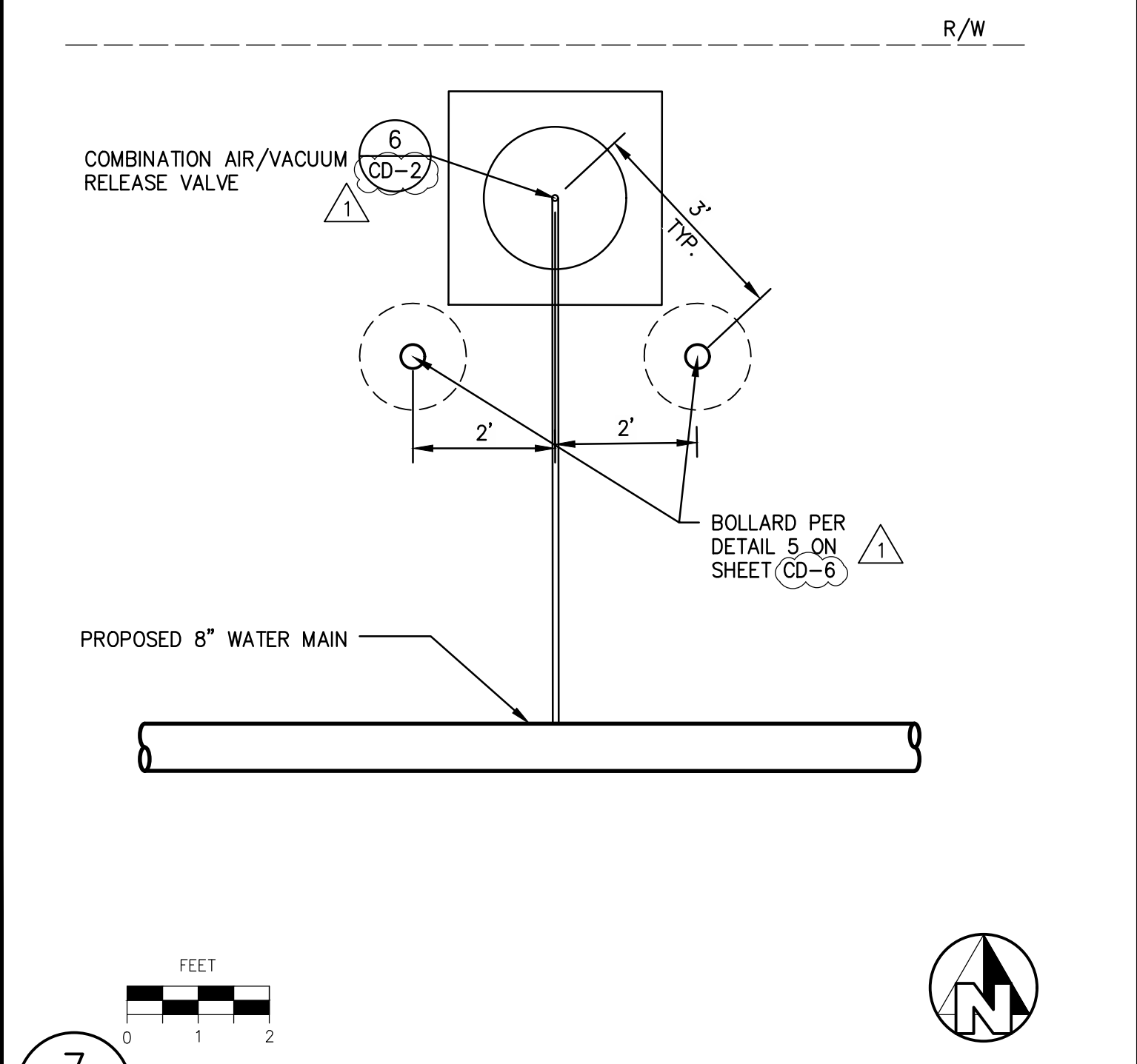
NOT TO SCALE

5
CD-6
BOLLARD

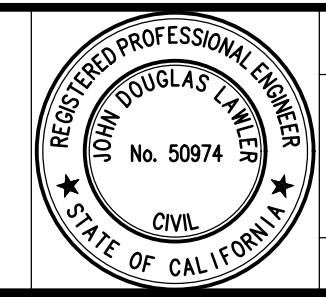



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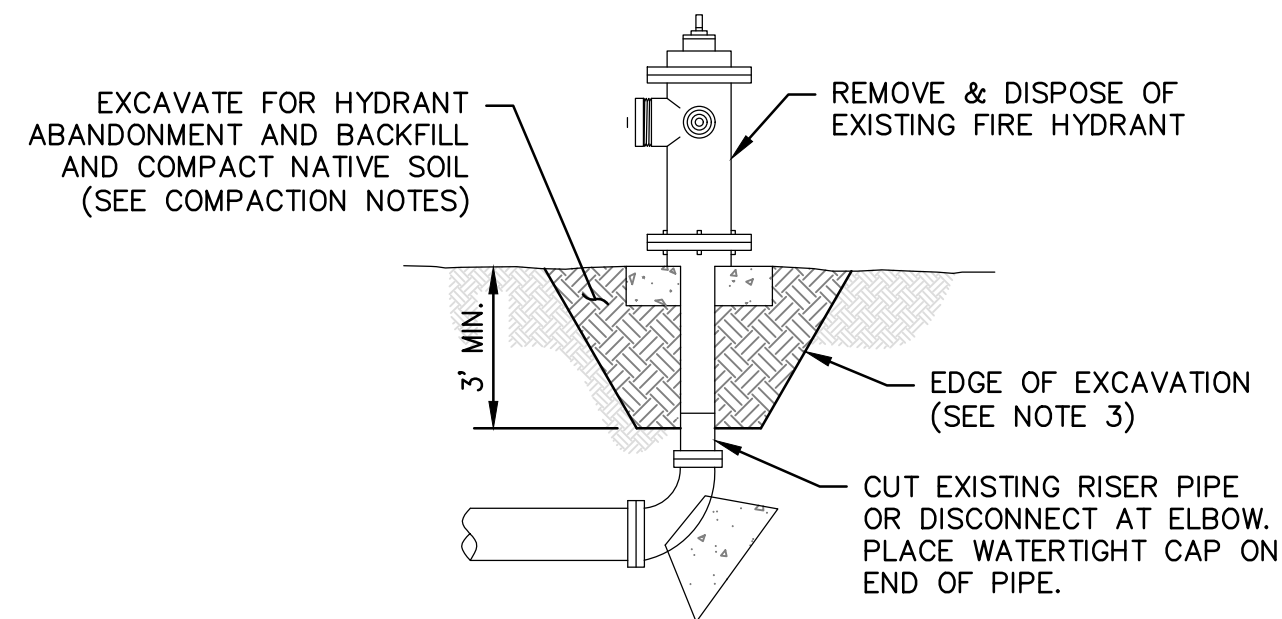
6
CD-6
FIRE HYDRANT BOLLARD LAYOUT WITH ROLLED CURB AND GUTTER



7
CD-6
AIR VALVE BOLLARD LAYOUT

DESIGNED: JDL		DATE: 06/30/2020	RECORD DRAWING		SCALE	 REGISTERED PROFESSIONAL ENGINEER JOHN DOUGLAS No. 50974 CIVIL STATE OF CALIFORNIA	PROJECT	 DEPARTMENT OF PUBLIC WORKS AND PLANNING CONNECTION & MISC DETAILS 3 DETAILS
DRAWN: PPI		DATE: 06/30/2020	RESIDENT ENGINEER				CSA 30 & 32 WATER SYSTEM IMPROVEMENTS	
CHECKED: MWK		DATE: 06/30/2020	DATE: 09/10/2020				COUNTY OF FRESNO	
			DATE: 11/15/2022				ROAD NO. N/A	
			AS-BUILT REVISIONS			BRIDGE NO. N/A	DRAWING NO. 11305	
							SHEET NO. CD-6	
							TOTAL 34	

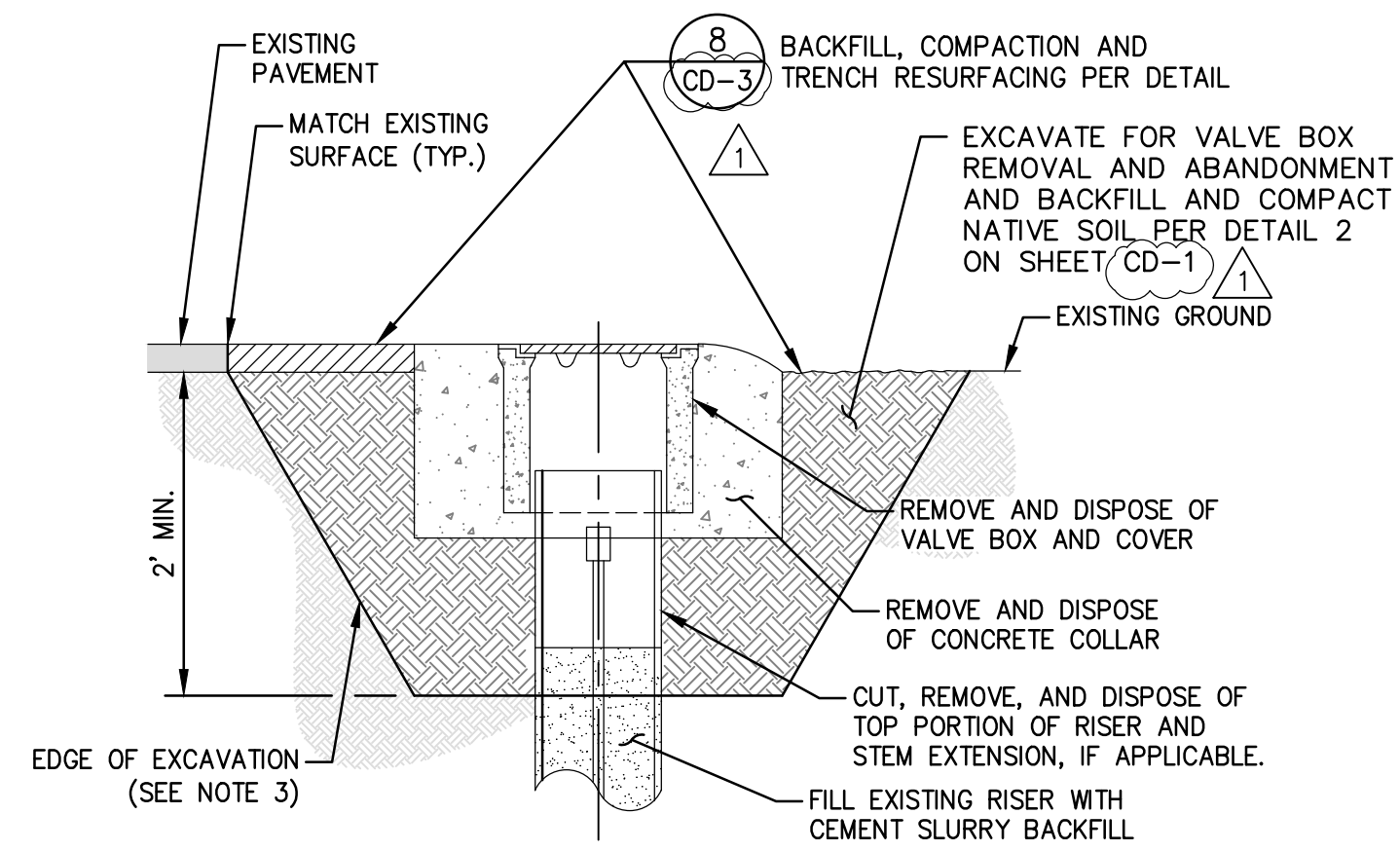
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



- NOTES:**
- EDGE OF EXCAVATION SHOWN FOR ILLUSTRATION PURPOSES ONLY, TRENCH WIDTH MAY VARY.
 - IF THE FIRE HYDRANT HAS PROTECTIVE BOLLARDS THEY ARE TO BE REMOVED AS WELL INCLUDING CONCRETE FOOTING, AND BACKFILLED.

1
CD-7

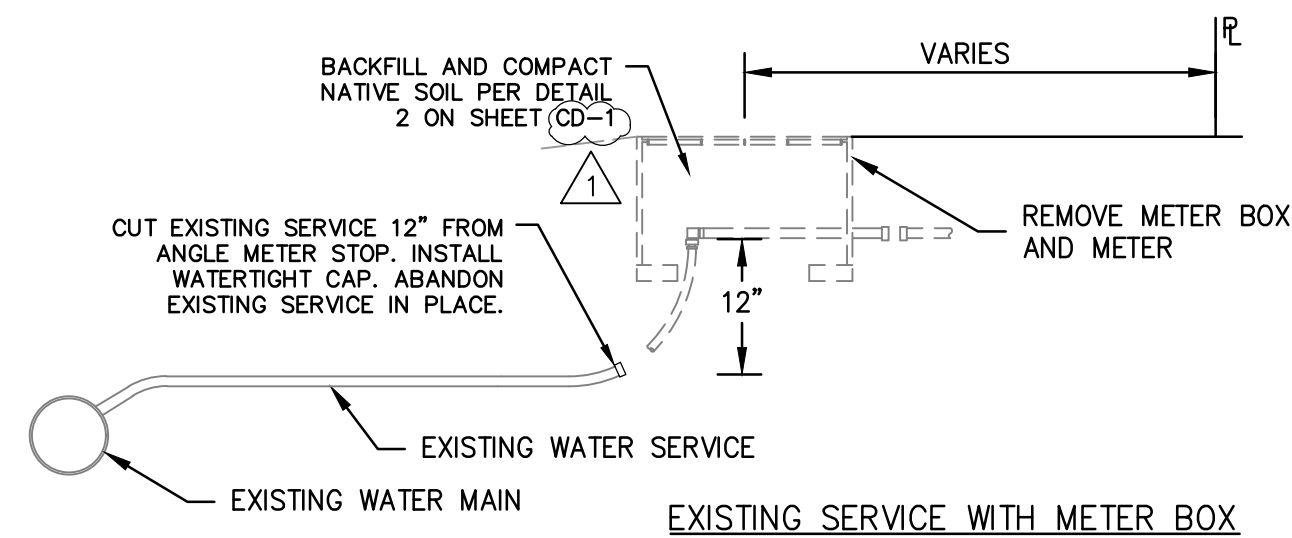
FIRE HYDRANT ABANDONMENT



- NOTES:**
- CONCRETE PLUG SHALL BE PER SPECIFICATIONS.
 - PLUG THICKNESS SHALL BE MINIMUM 2X DIAMETER OF ABANDONED PIPE.
 - EDGE OF EXCAVATION SHOWN FOR ILLUSTRATION PURPOSES ONLY, TRENCH WIDTH MAY VARY.

2
CD-7

WATER VALVE BOX ABANDONMENT & REMOVAL



- NOTES**
- CONCRETE SHALL BE SAWCUT, REMOVED AND REPLACED TO ALL ADJACENT CONTROL JOINTS IN SIDEWALK AND/OR DRIVE APPROACH.

3
CD-7

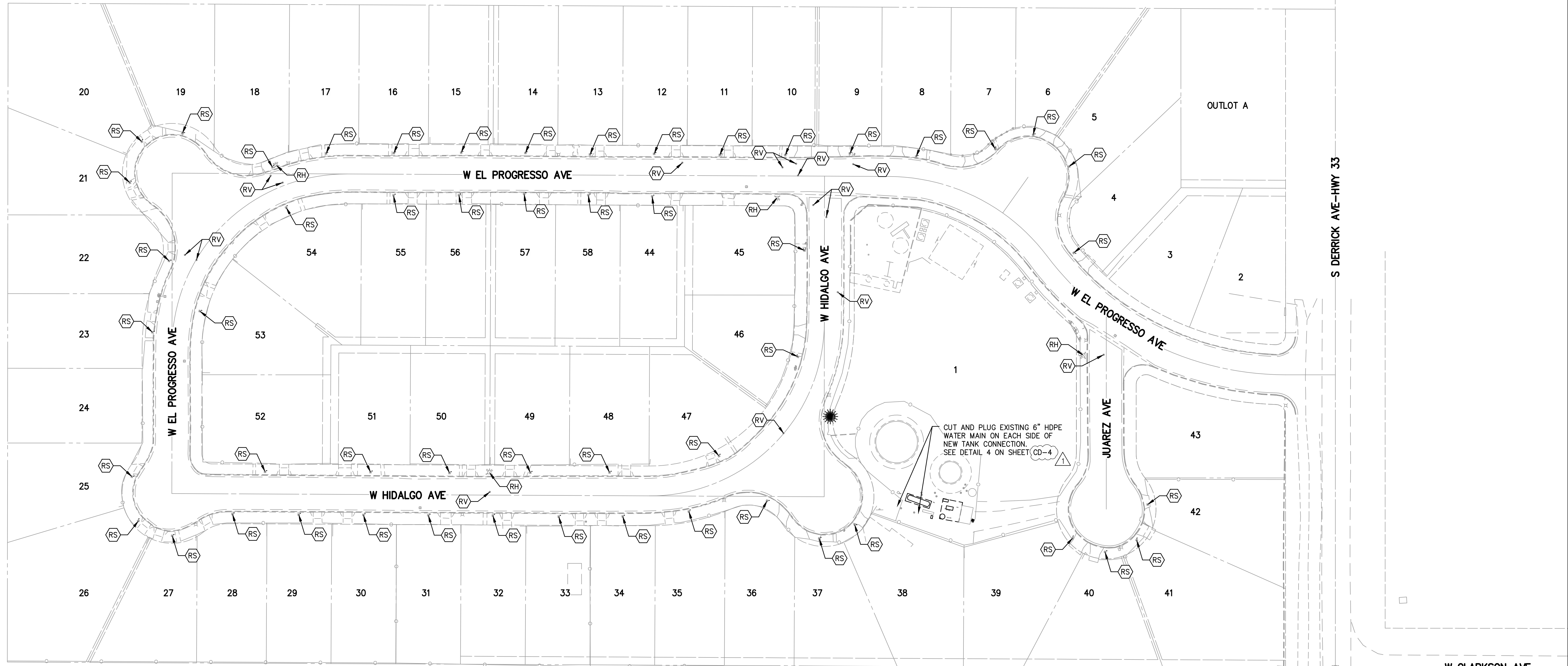
WATER SERVICE ABANDONMENT DETAIL

4
CD-7

- WATER SYSTEM ABANDONMENT NOTES**
- 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.
 - THE CONTRACTOR SHALL CONNECT ALL NEW WATER SERVICES TO EXISTING LEAD LINES PER PLANS AND SPECS.
 - 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.

DESIGNED: JDL	DATE: 06/30/2020	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: PPI	06/30/2020	RESIDENT ENGINEER			CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		ABANDONMENT DETAILS
CHECKED: MWK	06/30/2020	DATE			COUNTY OF FRESNO		DETAILS
		ADDENDUM NO. 1 - SHEET REFERENCES		ENGINEER OF RECORD	ROAD NO. N/A		DRAWING NO. 11305
		AS-BUILT REVISIONS		DATE: 11/15/2022	BRIDGE NO. N/A		SHEET NO. CD-7
							TOTAL 34

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



WATER DISTRIBUTION SYSTEM ABANDONMENT LEGEND

ITEM	DESCRIPTION
(RH)	REMOVE EXISTING FIRE HYDRANT PER DETAIL
(RS)	REMOVE EXISTING WATER METER AND ABANDON WATER SERVICE PER DETAIL
(RV)	REMOVE EXISTING WATER VALVE BOX PER DETAIL

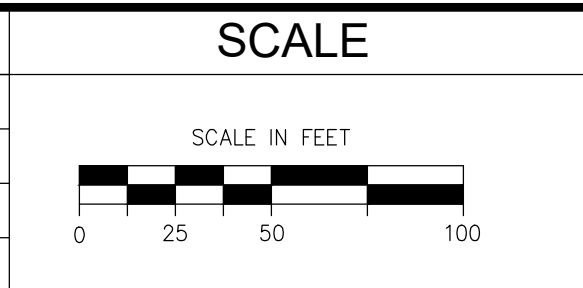
1
CD-7
3
CD-7
2
CD-7
1

SEE NOTES IN DETAIL 4 ON DRAWING CD-7 1

EXISTING WATER MAINS WILL BE ABANDONED IN-PLACE AFTER COMPLETION OF THE NEW DISTRIBUTION SYSTEM.



DESIGNED:	DATE	RECORD DRAWING	SCALE
JDL	06/30/2020	RESIDENT ENGINEER	SCALE IN FEET
PP1	06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	0 25 50 100
MWK	06/30/2020	AS-BUILT REVISIONS	



11/15/2022
DATE
ENGINEER OF RECORD

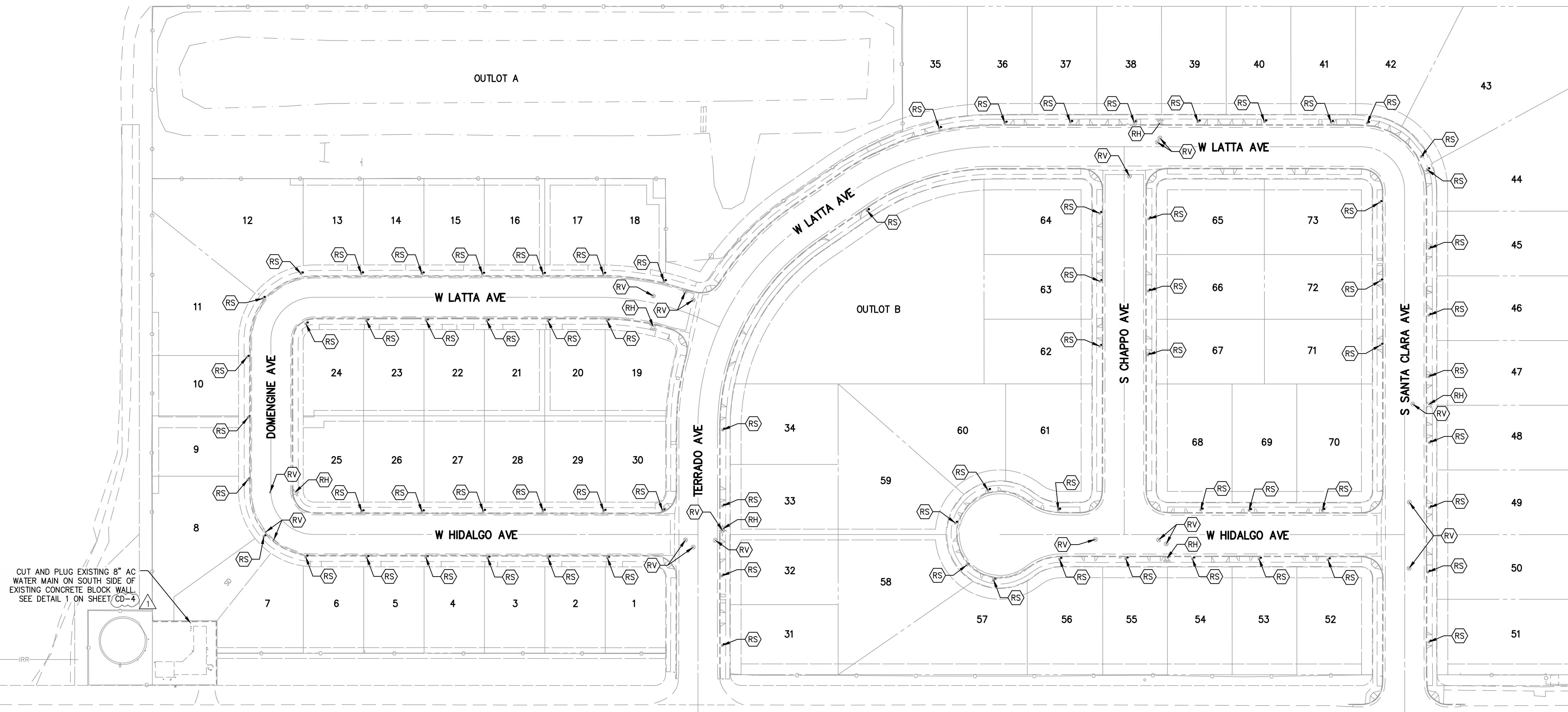


PROJECT
CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
COUNTY OF FRESNO
ROAD NO. N/A BRIDGE NO. N/A



DEPARTMENT OF PUBLIC WORKS AND PLANNING
CSA 30 EL PORVENIR WATER MAIN ABANDONMENT
DETAILS
DRAWING NO. 11305 SHEET NO. CD-8 TOTAL 34

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



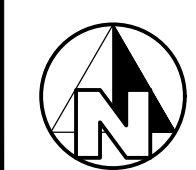
CUT AND PLUG EXISTING 8" AC WATER MAIN ON SOUTH SIDE OF EXISTING CONCRETE BLOCK WALL. SEE DETAIL 1 ON SHEET CD-4

EXISTING WATER MAINS WILL BE ABANDONED IN-PLACE AFTER COMPLETION OF THE NEW DISTRIBUTION SYSTEM.

WATER DISTRIBUTION SYSTEM ABANDONMENT LEGEND	
ITEM	DESCRIPTION
(RH)	REMOVE EXISTING FIRE HYDRANT PER DETAIL
(RS)	REMOVE EXISTING WATER METER AND ABANDON WATER SERVICE PER DETAIL
(RV)	REMOVE EXISTING WATER VALVE BOX PER DETAIL

- 1 CD-7
- 3 CD-7
- 2 CD-7

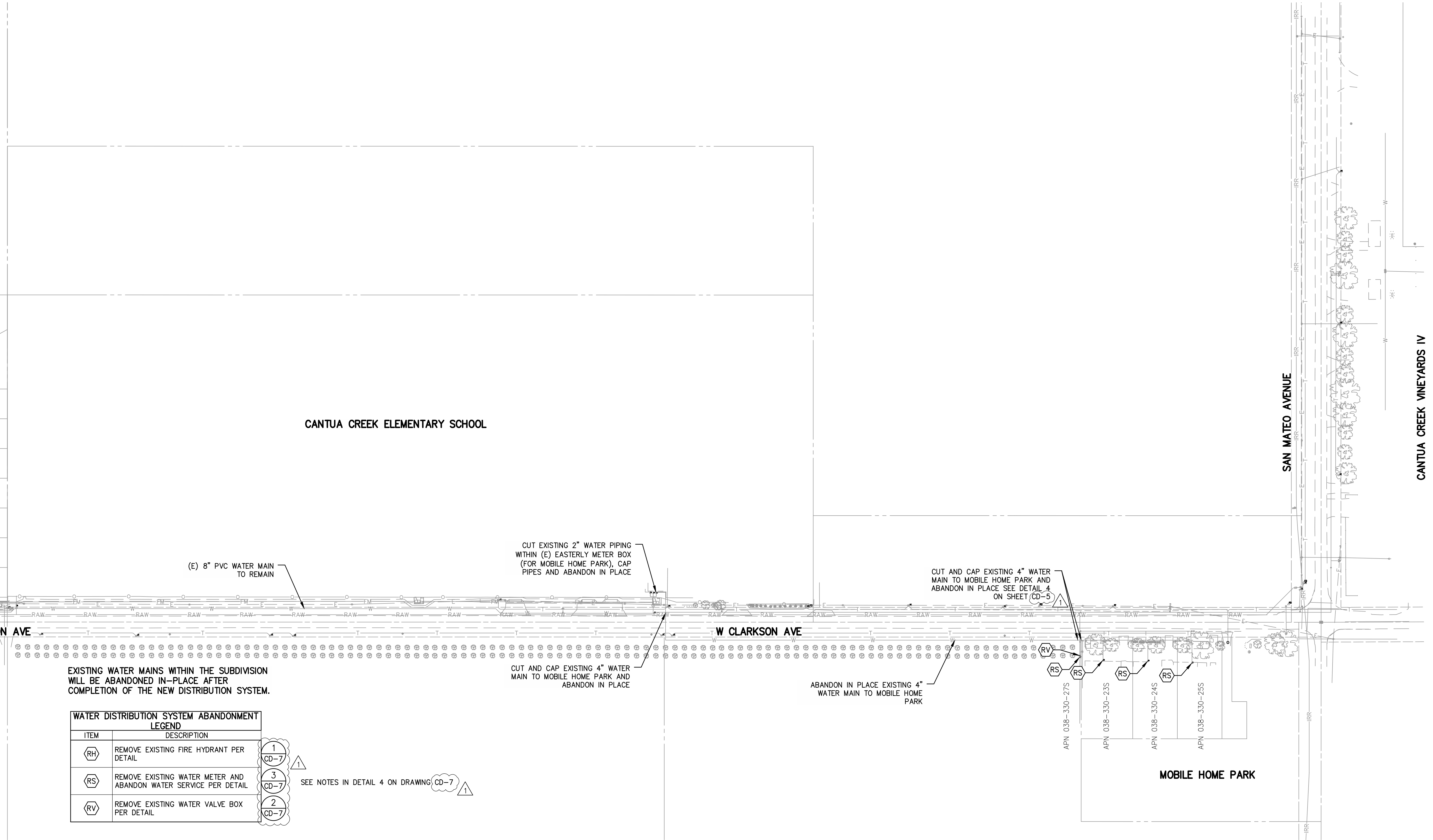
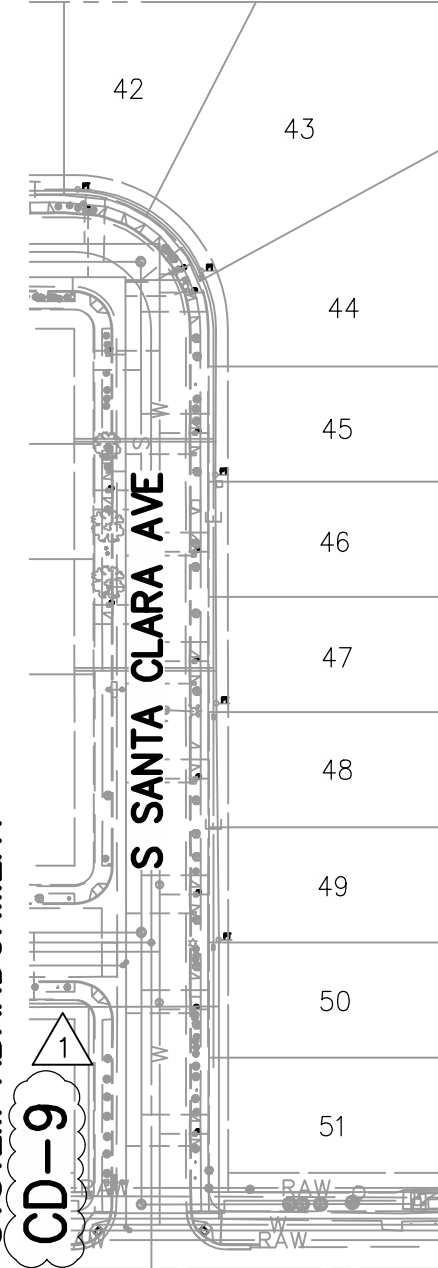
SEE NOTES IN DETAIL 4 ON DRAWING CD-7



SEE SHEET CD-10

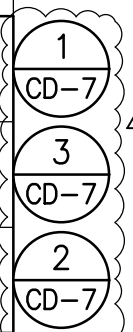
DESIGNED: JDL	DATE: 06/30/2020	RESIDENT ENGINEER	DATE: 09/10/2020			PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: PPI	DATE: 06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES	DATE: 11/15/2022			CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		COUNTY OF FRESNO	CSA 32 CANTUA CREEK WATER MAIN ABANDONMENT
CHECKED: MWK	DATE: 06/30/2020	AS-BUILT REVISIONS	DATE: 11/15/2022			COUNTY OF FRESNO		COUNTY OF FRESNO	DETAILS
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11305	SHEET NO. CD-9	TOTAL 34	

SEE CSA 32 WATER SYSTEM ABANDONMENT SHEET CD-9



EXISTING WATER MAINS WITHIN THE SUBDIVISION WILL BE ABANDONED IN-PLACE AFTER COMPLETION OF THE NEW DISTRIBUTION SYSTEM.

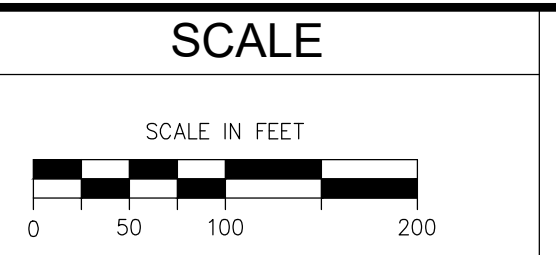
WATER DISTRIBUTION SYSTEM ABANDONMENT LEGEND	
ITEM	DESCRIPTION
(RH)	REMOVE EXISTING FIRE HYDRANT PER DETAIL
(RS)	REMOVE EXISTING WATER METER AND ABANDON WATER SERVICE PER DETAIL
(RV)	REMOVE EXISTING WATER VALVE BOX PER DETAIL



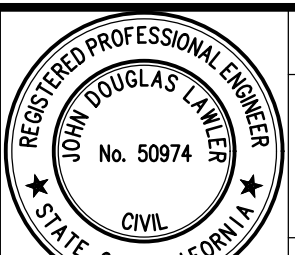
SEE NOTES IN DETAIL 4 ON DRAWING CD-7



DATE	RECORD DRAWING
06/30/2020	RESIDENT ENGINEER
06/30/2020	ADDENDUM NO. 1 - SHEET REFERENCES
06/30/2020	AS-BUILT REVISIONS



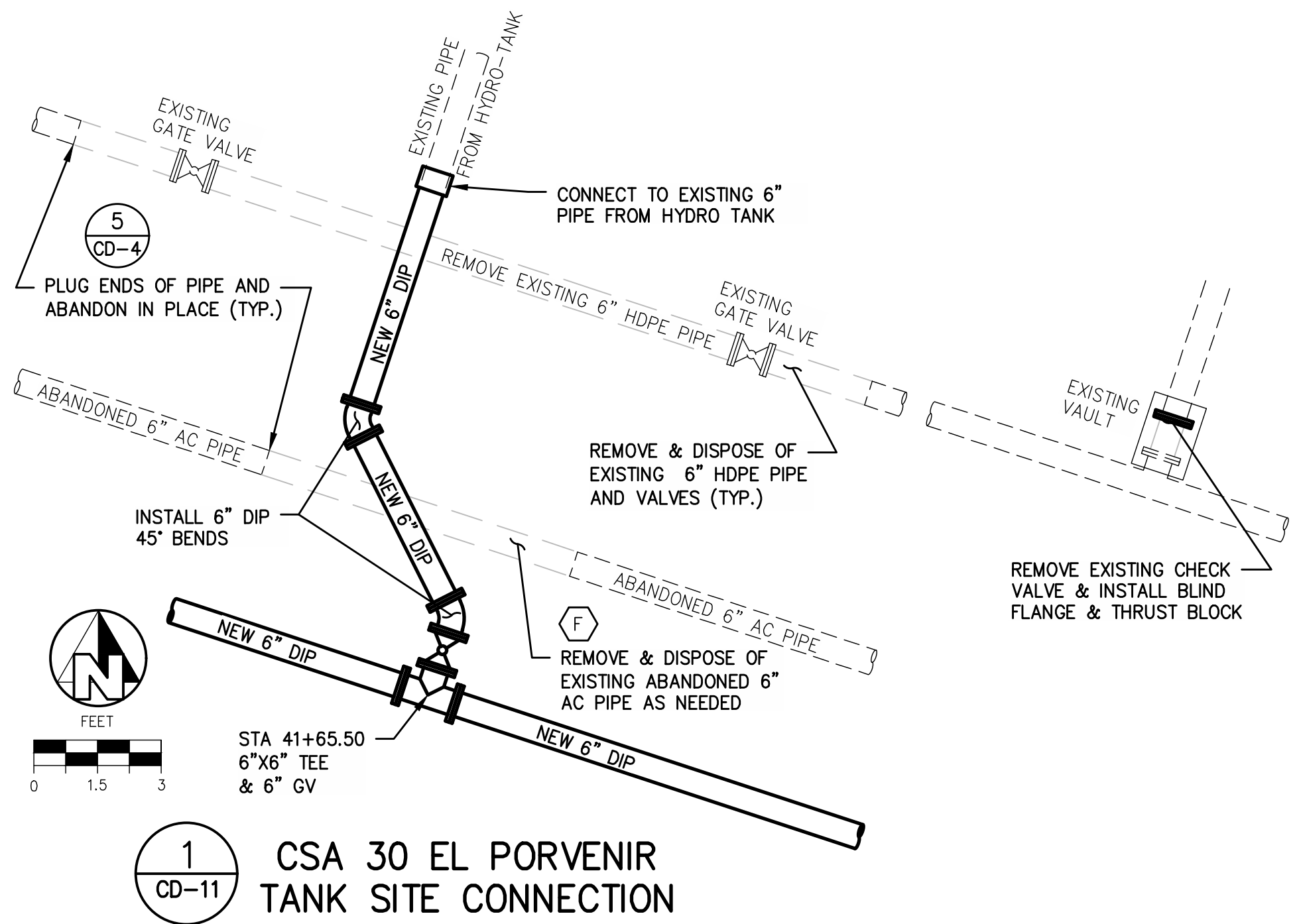
ENGINEER OF RECORD
 DATE 11/15/2022



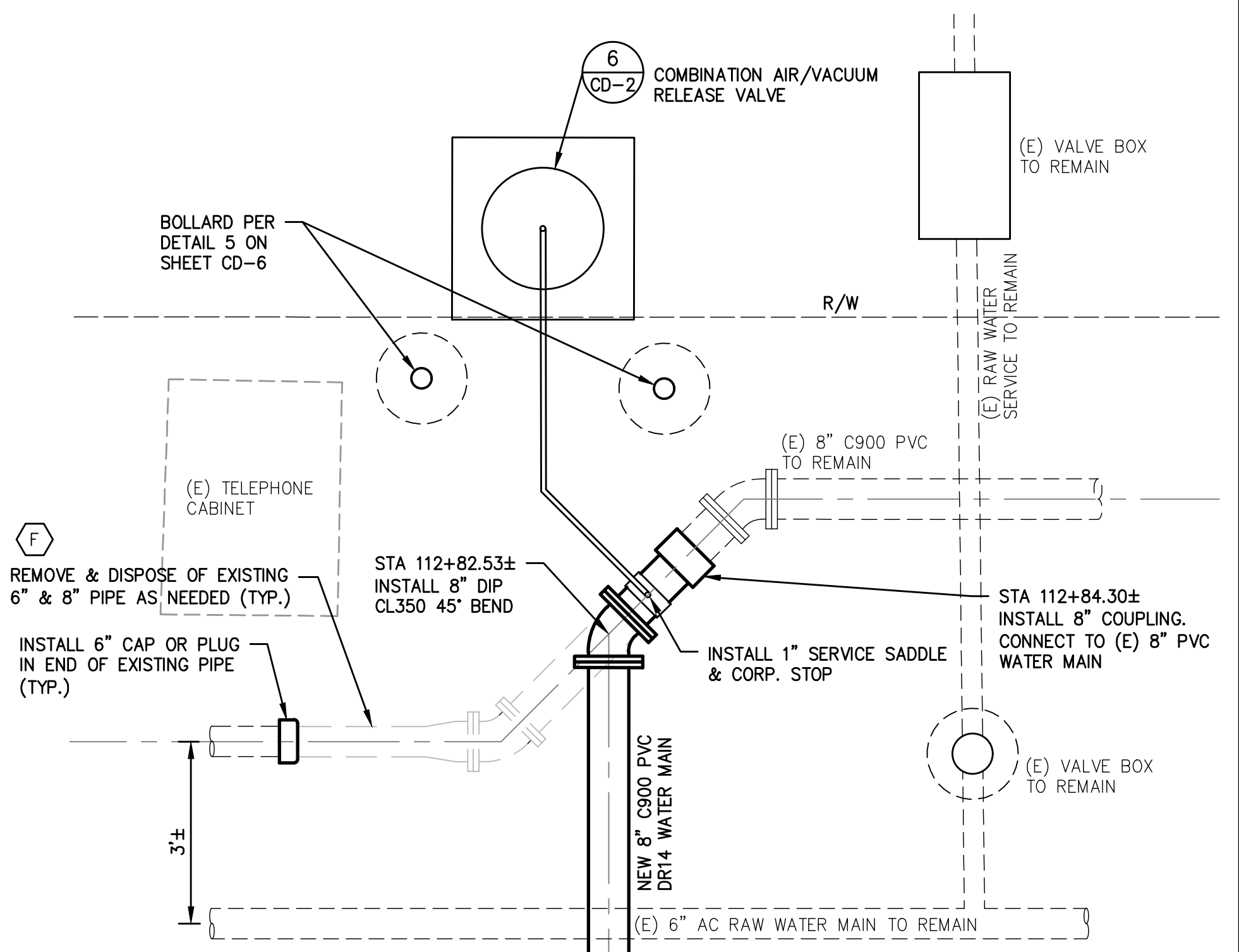
PROJECT
 CSA 30 & 32 WATER SYSTEM IMPROVEMENTS
 COUNTY OF FRESNO



DEPARTMENT OF PUBLIC WORKS AND PLANNING
 CSA 32 CLARKSON AVENUE WATER MAIN
 ABANDONMENT
 DETAILS

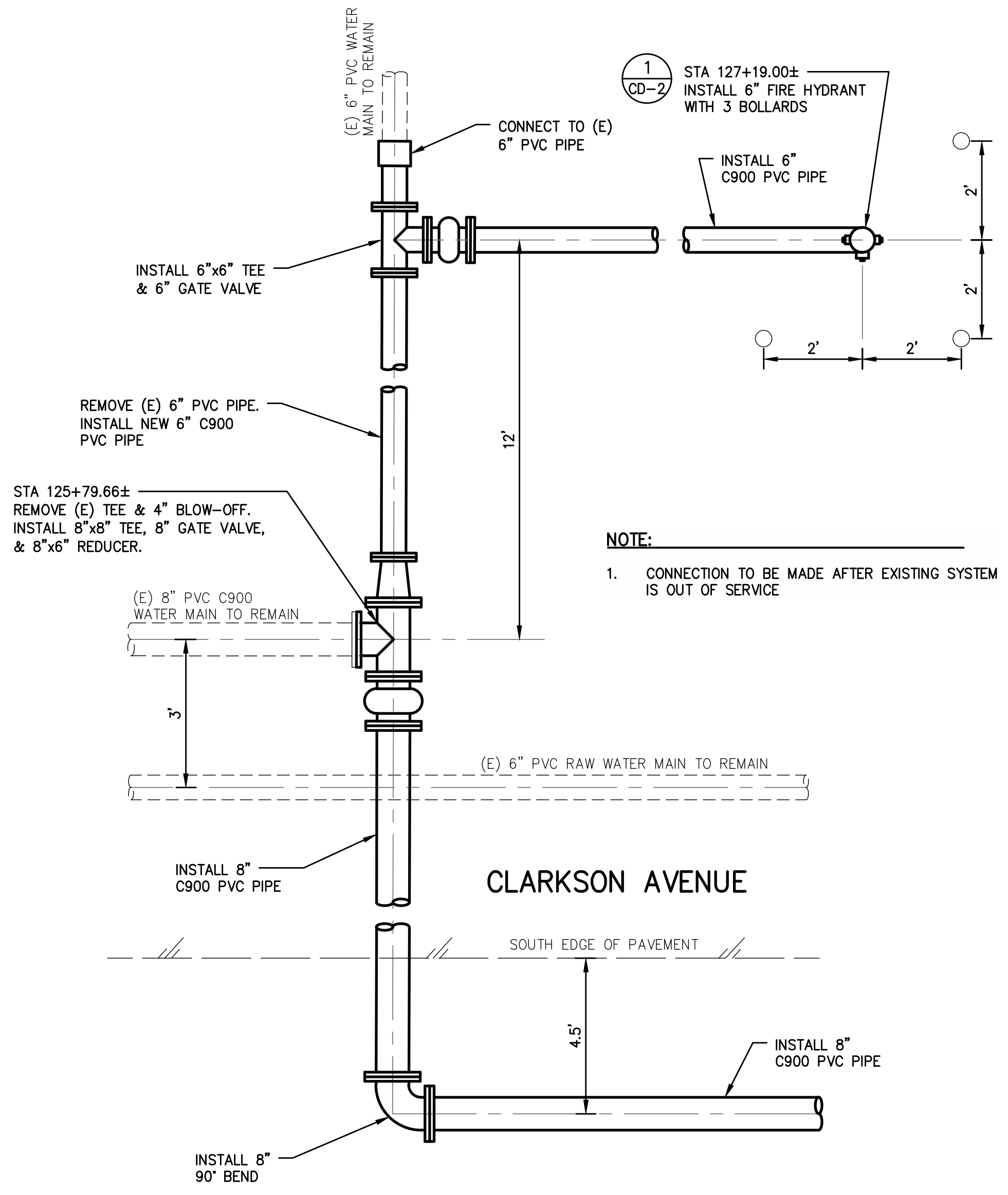


1
CD-11
CSA 30 EL PORVENIR
TANK SITE CONNECTION



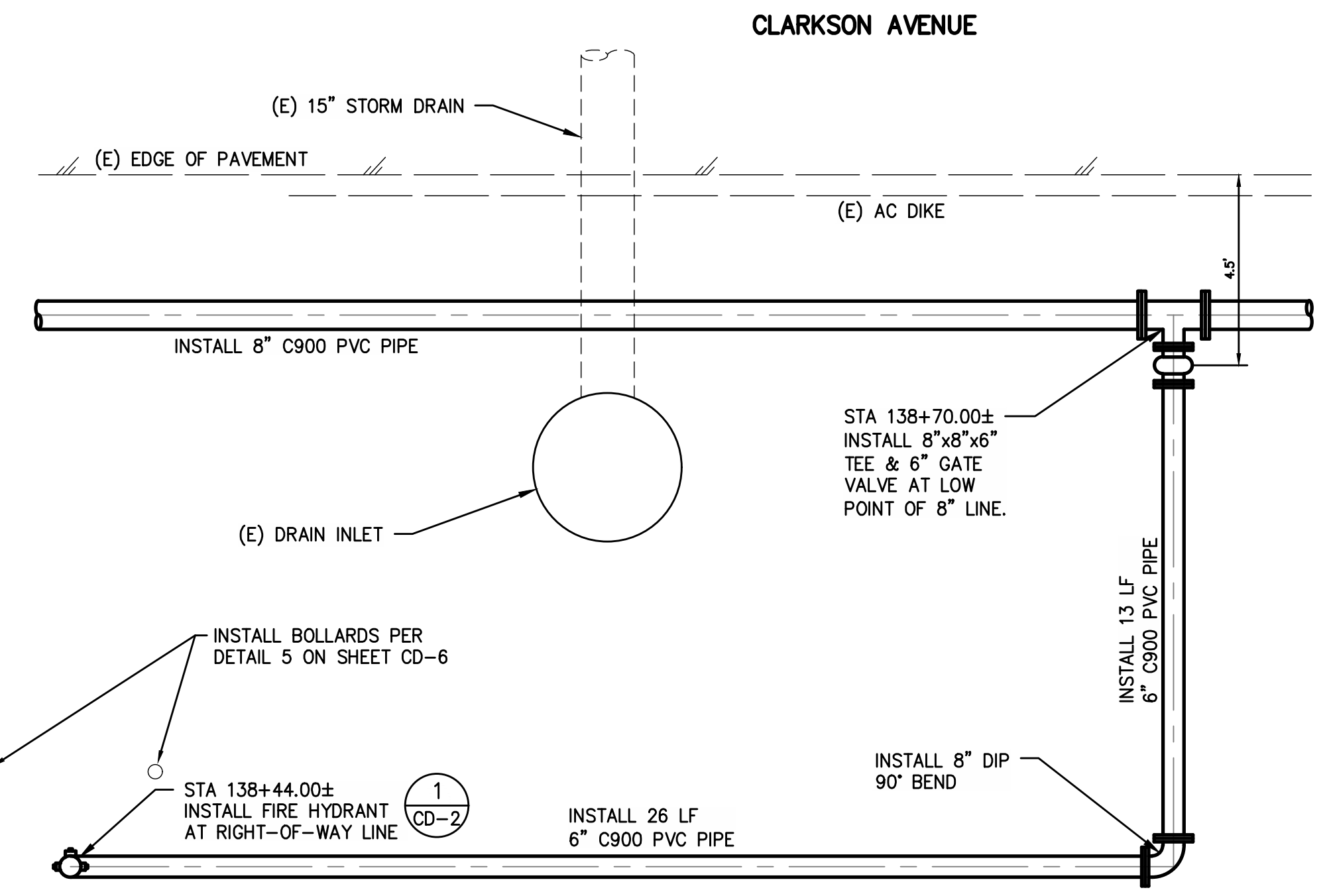
NOTE:
1. CONNECTION TO BE MADE AFTER EXISTING SYSTEM IS OUT OF SERVICE

2
CD-11
CSA 32 CANTUA CREEK
CLARKSON AVENUE CONNECTION 2



NOTE:
1. CONNECTION TO BE MADE AFTER EXISTING SYSTEM IS OUT OF SERVICE

3
CD-11
CSA 32 CANTUA CREEK
CLARKSON AVENUE CONNECTION 1



4
CD-11
CSA 32 CANTUA CREEK MOBILE
HOME PARK FIRE HYDRANT

DESIGNED: ENGINEER	DATE: 10-20-2016	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: MAP	DATE: 10-20-2016	RESIDENT ENGINEER			CSA 30 & 32 WATER SYSTEM IMPROVEMENTS		AS-BUILT DETAILS
CHECKED: ABC	DATE: 10-20-2016	ADDENDUM NO. 1 - SHEET REFERENCES	11/15/2022		FRESNO COUNTY		CSA 30 & CSA 32
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.		AS-BUILT REVISIONS	DATE		ROAD NO. N/A		DRAWING NO. 11305