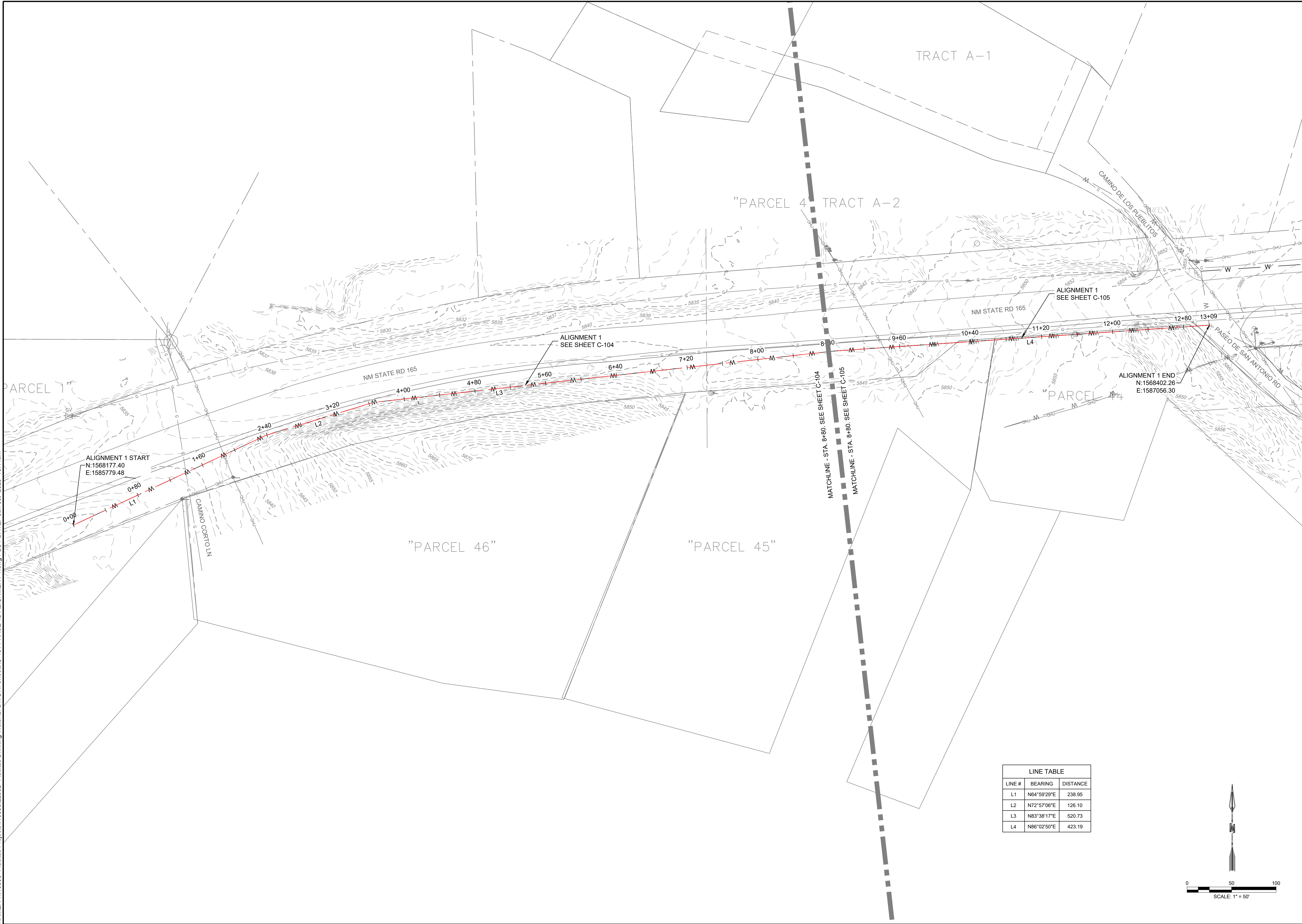
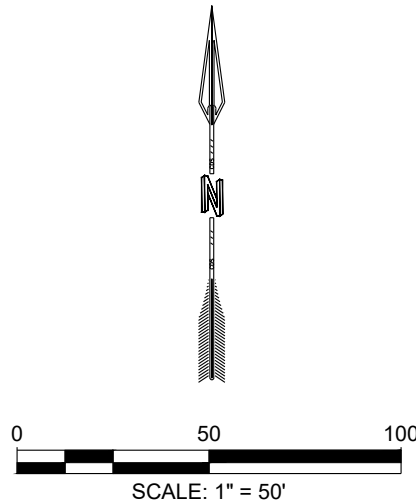


NAME: P:\W0393-Placitas Projects\W0393.22002-Placitas Drinking Water\3. DWG\34. Sheets\C-101. PHASE 1B ALIGNMENT 1.dwg PLOT DATE: Jun 30, 2025 10:14am



LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N64°59'29"E	238.95
L2	N72°57'06"E	126.10
L3	N83°38'17"E	520.73
L4	N86°02'50"E	423.19



DESIGNED CDS
DRAWN CDS
CHECKED CDS
DATE 6.30.2025

CDS
COMMUNITY DESIGN SOLUTIONS, LLC
3330 ALBUQUERQUE, NEW MEXICO 87114
PHONE: (505)366-4187

REVISION

STAMP

THIS DRAWING IS INCOMPLETE
AND NOT TO BE USED FOR
CONSTRUCTION UNLESS IT IS
STAMPED, SIGNED AND DATED.

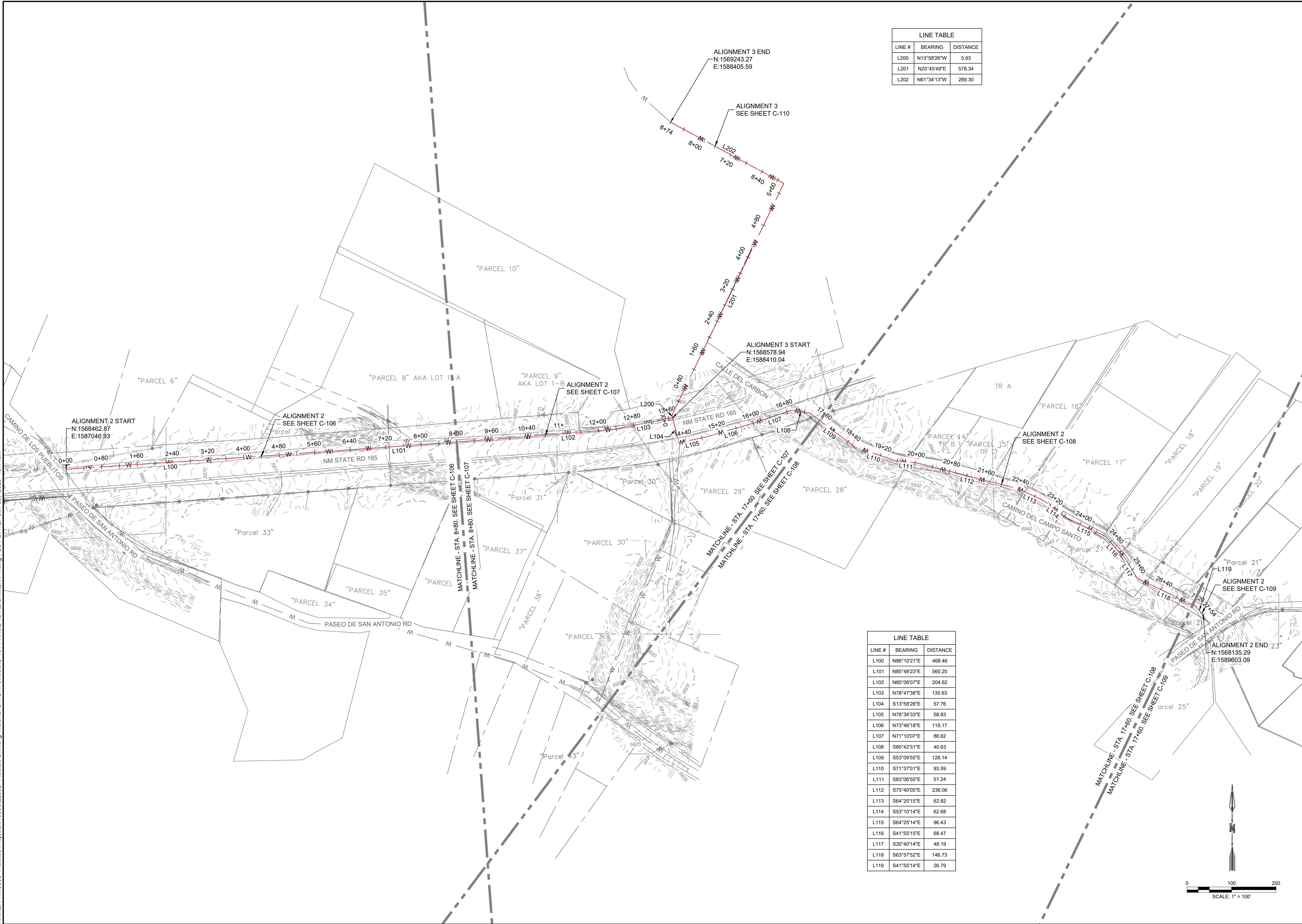
PROJECT NAME:
**DOMESTIC WATER
DISTRIBUTION SYSTEMS**

SHEET TITLE:
ALIGNMENT 1

ISSUED FOR:
**FOR
CONSTRUCTION**

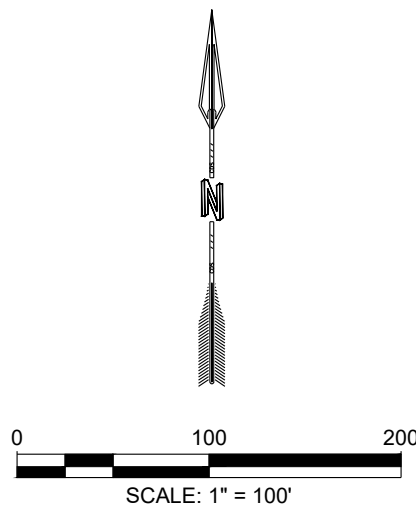
SHEET NUMBER:
C-100

NAME: P:\W0393-Placitas Projects\W0393.22002-Placitas Drinking Water\3_DWG\3A_Sheets\C-101 PHASE 1B ALIGNMENT 1.dwg PLOT DATE: Jun 30, 2025 10:14am



LINE TABLE		
LINE #	BEARING	DISTANCE
L200	N13°58'26"W	5.93
L201	N26°45'49"E	578.34
L202	N61°34'13"W	289.30

LINE TABLE		
LINE #	BEARING	DISTANCE
L100	N86°10'21"E	468.46
L101	N85°48'23"E	560.25
L102	N85°06'07"E	204.62
L103	N78°47'38"E	135.63
L104	S13°58'26"E	57.76
L105	N78°34'33"E	58.93
L106	N73°46'18"E	119.17
L107	N71°10'07"E	86.62
L108	S80°42'31"E	40.63
L109	S53°09'55"E	128.14
L110	S71°37'01"E	93.59
L111	S83°06'55"E	51.24
L112	S75°40'05"E	236.06
L113	S64°25'15"E	62.82
L114	S53°10'14"E	62.68
L115	S64°25'14"E	96.43
L116	S41°55'15"E	68.47
L117	S30°40'14"E	48.19
L118	S63°57'52"E	146.73
L119	S41°55'14"E	26.79

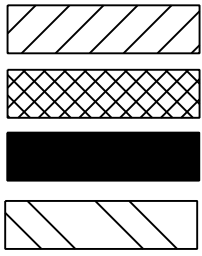


DESIGNED CDS	CDS	COMMUNITY DESIGN SOLUTIONS, LLC 930 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187	REVISION
DRAWN CDS	CDS		
CHECKED CDS	CDS		
DATE	6/30/2025		
STAMP			
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.			
PROJECT NAME:			DOMESTIC WATER DISTRIBUTION SYSTEMS
SHEET TITLE:			ALIGNMENT 2 & 3
ISSUED FOR:			FOR CONSTRUCTION
SHEET NUMBER:			C-101

NAME: P:\W0393-Placitas Projects\W0393.22002-Placitas Drinking Water\3-DWG\34-Sheets\C-102 SITE DEMO SHEET.dwg PLOT DATE: Jun 30, 2025 10:25am



LEGEND:
WATERLINE REMOVAL
TREE REMOVAL
PAVEMENT REMOVAL
WATERLINE ABANDON



DESIGNED CDS DRAWN CDS CHECKED CDS DATE 6/30/2025		CDS COMMUNITY DESIGN SOLUTIONS, LLC 9301 UNIVERSITY BLVD, SUITE 100 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187		REVISION	
STAMP 		THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.			
		PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS			
SHEET TITLE: SITE DEMO		ISSUED FOR: FOR CONSTRUCTION			
SHEET NUMBER: C-102					

NAME: P:\W0303-Placitas Projects\W0303.22002-Placitas Drinking Water\3_DWG\4_Sheets\C-103_JOINT RESTRAINT TABLES & NOTES.dwg PLOT DATE: Jun 30, 2025 10:14am

UTILITY GENERAL NOTES:

1. ASSUMES MINIMUM DEPTH OF BURY = 4 FEET FOR MAIN LINES.
2. RESTRAINED LENGTH FOR VALVES SHALL BE PROVIDED ON BOTH SIDES OF VALVE.
3. WHERE POSSIBLE, CONTRACTOR SHALL INSTALL FULL 20-FT JOINT OF PIPE ON EITHER SIDE OF ALL MECHANICAL JOINT VALVES, FITTINGS, AND APPURTENANCES. FOR ALL CIRCUMSTANCES WHERE A 20-FT JOINT CAN BE UTILIZED AND THE CONTRACTOR ELECTS TO USE A SHORTER PIPE JOINT, CONTRACTOR SHALL PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL NECESSARY JOINT RESTRAINTS REQUIRED BY TABLE, SEE THIS SHEET.
4. WATERLINE DISINFECTION - CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISINFECTION, CHLORINATION, CHLORINE RESIDUAL TESTING AND LEAK INTEGRITY (PRESSURE) TESTING OF ALL WATER PIPES INSTALLED, OR ANY EXISTING WATER LINES THAT MAY HAVE BEEN AFFECTED BY THE PROJECT'S CONSTRUCTION. THE OWNER'S REPRESENTATIVE SHALL WITNESS ALL TESTING.

THRUST RESTRAINT NOTE:

ALL BURIED VALVES, FITTINGS, AND APPURTENANCES SHALL BE MECHANICAL JOINT-TYPE UTILIZING "MEGA-LUG"® STYLE MECHANICAL JOINT RESTRAINTS IN CONJUNCTION WITH "MEGA-LUG"® PIPE BELL-HARNESS RESTRAINTS WHEN ADEQUATE RESTRAINED LENGTH CAN BE OBTAINED. IN THE EVENT ADEQUATE RESTRAINED LENGTHS CANNOT BE OBTAINED, CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR DETERMINATION OF APPROPRIATE ACTION TO BE TAKEN. THE EBAA IRON "RESTRAINED LENGTH CALCULATION" PROGRAM (VERSION 4.0) HAS BEEN USED TO DETERMINE MINIMUM RESTRAINED LENGTHS SHOWN IN TABLE ABOVE. THE FOLLOWING GENERAL ASSUMPTIONS APPLY TO ALL CALCULATIONS:

TRENCH TYPE 3
SOIL TYPE SM (SILTY SANDS, SAND SILT MIXTURE)
SAFETY FACTOR 1.5 TO 1

TYPICAL BURY DEPTH:
4" THROUGH 8" DIAMETER PIPE 3 FT
12" THROUGH 24" DIAMETER PIPE 4 FT

TYPICAL BURY DEPTHS FOR VERTICAL OFFSETS:
4" THROUGH 8" DIAMETER PIPE 3 FT TO TOP OF UPPER BRANCH
6 FT TO TOP OF LOWER BRANCH
12" THROUGH 24" DIAMETER PIPE 4 FT TO TOP OF UPPER BRANCH
7 FT TO TOP OF LOWER BRANCH

CONTRACTOR MAY SUBMIT SUBSTITUTE REDUCED RESTRAINED JOINT LENGTHS IF SOIL AND DEPTH OF BURY CONDITIONS WARRANT. CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS AND APPROPRIATE CALCULATIONS TO SUPPORT THE LENGTH REDUCTION. SOIL TESTING AND CALCULATIONS SHALL BE PERFORMED AT CONTRACTOR'S SOLE EXPENSE.

WATER SHUT OFF NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE LAS ACEQUIAS DE PLACITAS PRESIDENT SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER INFRASTRUCTURE.
2. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.

TEST PRESSURE @ 150 PSI

LENGTHS OF PIPE TO BE RESTRAINED - ALL JOINTS WITHIN LENGTH(FEET) MUST BE RESTRAINED (APPLIES TO PVC ONLY)

HORIZONTAL BENDS						FIRE HYDRANT TEE
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	DEAD END OR VALVE	STD. 6-INCH BRANCH LINE
4"	18"	8'	4'	2'	39'	FOR ALL PIPE MAIN LINE SIZES, ALL FITTINGS AND PIPE JOINTS FROM TEE TO FIRE HYDRANT FLANGE SHALL BE RESTRAINED
6"	25'	11'	5'	3'	55'	
8"	33'	14'	7'	4'	72'	
10"	39'	16'	8'	4'	87'	
12"	45'	19'	9'	5'	102'	

VERTICAL DOWNBEND						
PIPE SIZE	45°		22 1/2°		11 1/4°	
	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT	UPPER BEND RESTRAINT	LOWER BEND RESTRAINT
4"	16'	4'	8'	2'	4'	1'
6"	23'	5'	11'	3'	5'	1'
8"	30'	7'	14'	3'	7'	2'
10"	36'	8'	17'	4'	8'	2'
12"	42'	10'	20'	5'	10'	2'

REDUCERS	L. SIDE
6x4	28
8x4	52
8x6	30
10x4	70
10x6	53
10x8	29
12x4	88
12x6	74
12x8	54
12x10	50
RESTRAINED LENGTH ON LARGE SIDE ONLY	

TEES	LENGTH ALONG RUN (Lr)										
	2'	4'	6'	8'	10'	12'	14'	16'	18'	20'	
6x6x4	29	18	7	1	1	1	1	1	1	1	
6x6x6	48	41	33	26	18	11	4	1	1	1	
8x8x4	25	11	1	1	1	1	1	1	1	1	
8x8x6	46	36	26	16	6	1	1	1	1	1	
8x8x8	65	57	50	43	35	28	20	13	5	1	
10x10x4	21	3	1	1	1	1	1	1	1	1	
10x10x6	43	30	18	5	1	1	1	1	1	1	
10x10x8	63	53	44	34	25	15	6	1	1	1	
10x10x10	79	72	64	56	49	41	34	26	18	11	
12x12x4	17	1	1	1	1	1	1	1	1	1	
12x12x6	40	25	10	1	1	1	1	1	1	1	
12x12x8	61	49	38	26	15	3	1	1	1	1	
12x12x10	78	68	59	50	41	32	22	13	4	1	
12x12x12	95	87	79	72	64	56	49	41	33	26	
RESTRAINED LENGTH ALONG BRANCH (Lb)											

DESIGNED CDS
DRAWN CDS
CHECKED CDS
DATE 6/30/2025

CDS
COMMUNITY DESIGN SOLUTIONS, LLC
93 ALBUQUERQUE, NEW MEXICO 87114
PHONE: (505)366-4187

REVISION

STAMP


THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

PROJ. #: W0303.22002

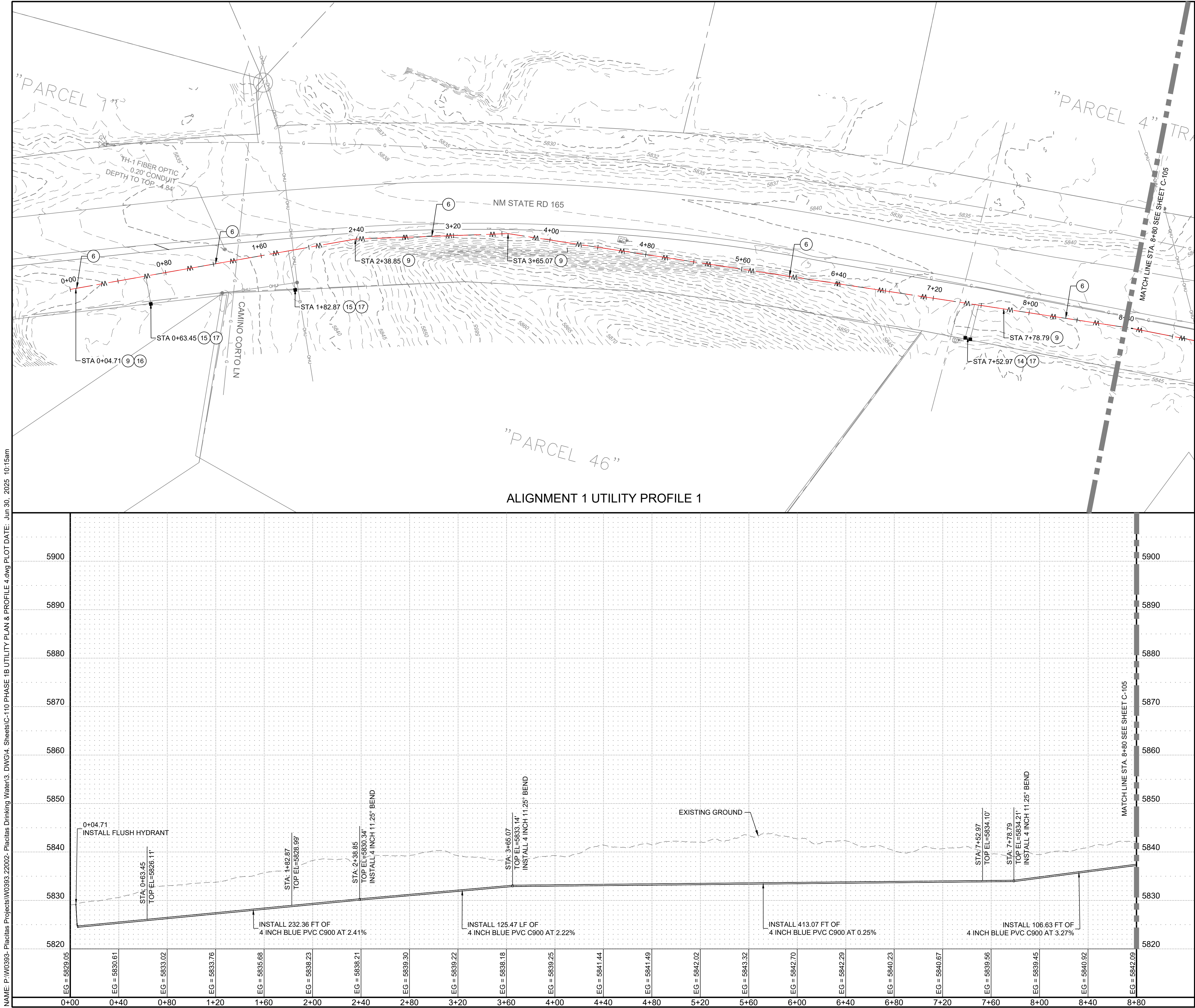
PROJECT NAME:
DOMESTIC WATER DISTRIBUTION SYSTEMS

SHEET TITLE:
JOINT RESTRAINT TABLES & NOTES

ISSUED FOR:
FOR CONSTRUCTION

SHEET NUMBER:
C-103

NAME: P:\W0393 - Placitas Projects\W0393.22002 - Placitas Drinking Water\3. DWG\3A. Sheets\C-10. PHASE 1B UTILITY PLAN & PROFILE 4.dwg PLOT DATE: Jun 30, 2025 10:15am



Ⓢ BUILD NOTES:

6	APWA 801	4" BLUE C900 PVC WATERLINE EXCL. FITTINGS. (STD. SPEC. SEC. 801), INCL. TRACE WIRE, TRENCH & COMPACTED BACKFILL TO 6" DEPTH, C.I.P.
9	APWA 801	DUCTILE IRON MJ FITTINGS, CLASS 250, 4" TO 14" WATERLINE, INCL. JOINTING MATERIAL, C.I.P.
14	APWA 802	3/4" WATER SERVICE LINE, NEW DOUBLE SERVICE WITH DUAL 3/4" CONNECTION TO NEW WATERMAIN, C.I.P.
15	APWA 802	3/4" WATER SERVICE LINE, NEW SINGLE CONNECTION INSTALLED WITH NEW WATERMAIN, C.I.P.
16	APWA 801	FLUSH HYDRANT, 4" BURY, MJ, INCL. BLOCKING & AGGREGATE, C.I.P.
17	APWA 802	WATER METER BOX, 3/4" TO 1", INCL. CONCRETE PAD, COVER & LID, C.I.P.

NOTES:

- POST WATERLINE INSTALLATION, CONTRACTOR TO RE-GRADE GROUND TO MATCH EXISTING.
- SEE SHEET C-103 FOR JOINT TABLE RESTRAINT REQUIREMENTS
- CONTRACTOR TO MAINTAIN 4' COVER OVER PIPE. CONTACT ENGINEER IF ISSUES ARISE.

DESIGNED CDS
DRAWN CDS
CHECKED CDS
DATE 6.30.2025

CDS
COMMUNITY DESIGN SOLUTIONS, LLC
933 ALBUQUERQUE, NEW MEXICO 87114
PHONE: (505)366-4187

STAMP

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.

PROJ. #: W0393.22002

PROJECT NAME:
DOMESTIC WATER DISTRIBUTION SYSTEMS

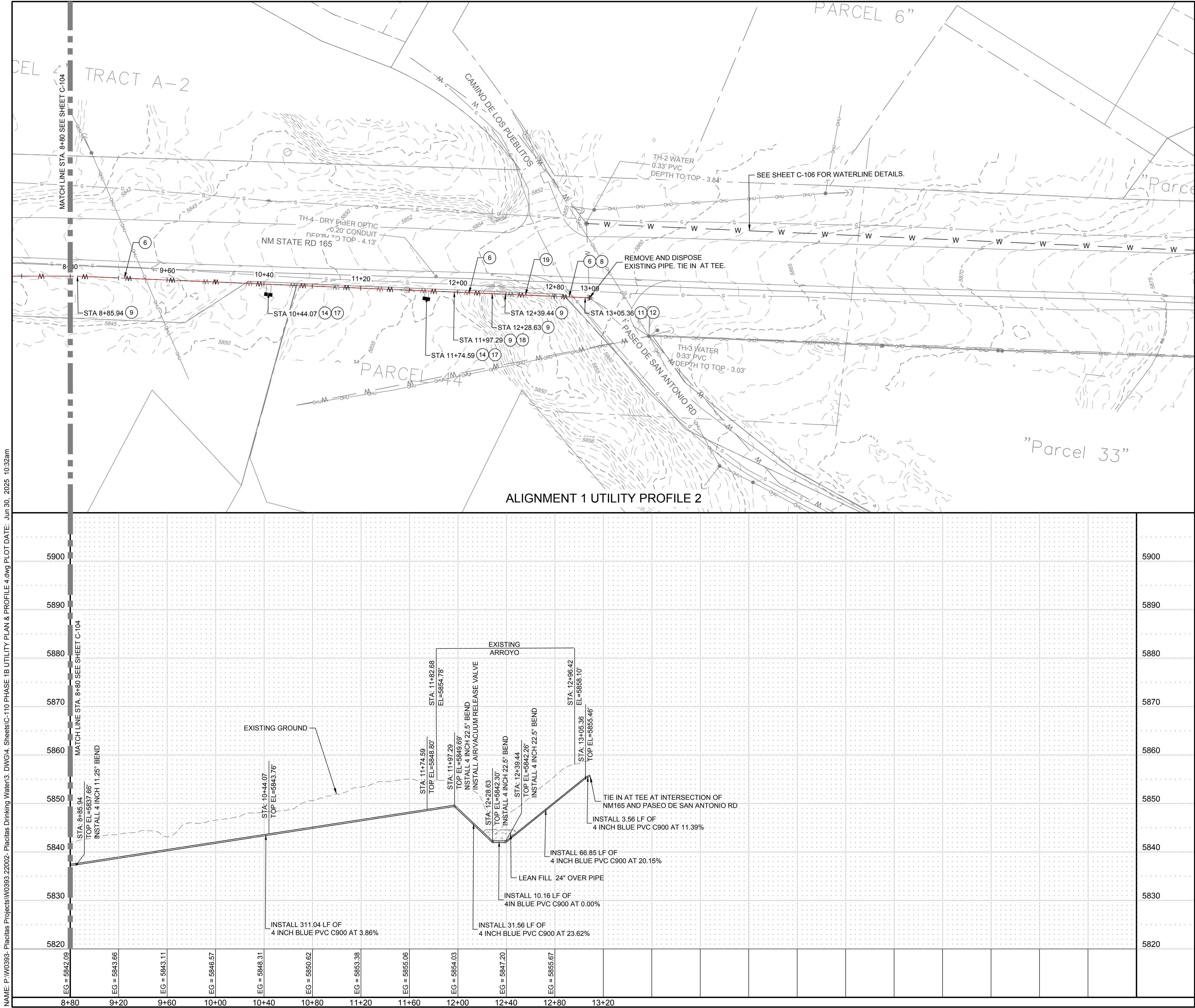
SHEET TITLE:
ALIGNMENT 1 UTILITY PLAN & PROFILE 1

ISSUED FOR:
FOR CONSTRUCTION

SHEET NUMBER:
C-104

REVISION

NAME: P:\W0393 - Placitas Projects\W0393.22002 - Placitas Drinking Water\3 DWG\4 Sheets\C-10 PHASE 1B UTILITY PLAN & PROFILE 4.dwg PLOT DATE: Jun 30, 2025 10:32am

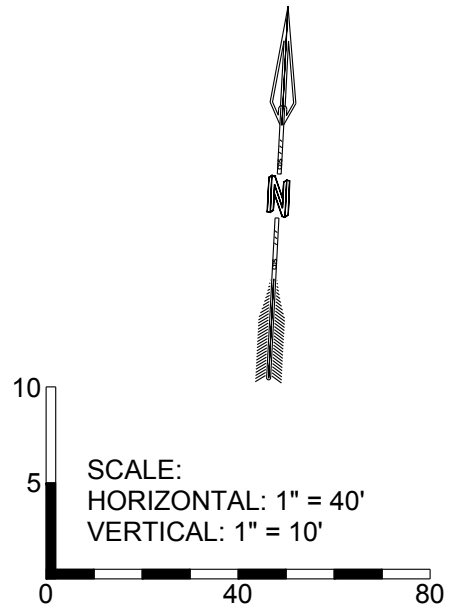


© BUILD NOTES:

6	APWA 801	4" BLUE C900 PVC WATERLINE EXCL. FITTINGS, (STD. SPEC. SEC. 801), INCL. TRACE WIRE, TRENCH & COMPACTED BACKFILL TO 6' DEPTH, C.I.P.
8	APWA 801	NON-PRESSURIZED CONNECTION EXISTING WATERLINE, ALL SIZES, INCL. FITTINGS, C.I.P.
9	APWA 801	DUCTILE IRON MJ FITTINGS, CLASS 250, 4" TO 14" WATERLINE, INCL. JOINTING MATERIAL, C.I.P.
11	APWA 801	VALVE BOX, RING AND COVER, AND ADJUST TO GRADE, C.I.P.
12	APWA 801	4" GATE VALVE, C.I.P.
14	APWA 802	3/4" WATER SERVICE LINE, NEW DOUBLE SERVICE WITH DUAL 3/4" CONNECTION TO NEW WATERMAIN, C.I.P.
17	APWA 802	WATER METER BOX, 3/4" TO 1", INCL. CONCRETE PAD, COVER & LID, C.I.P.
18	APWA 801	AIR/VACUUM RELEASE VALVE, 4" C.I.P.
19	APWA 801	EXISTING WATERLINE, UP TO 14" WITH FITTINGS, REMOVE & DISPOSE, TRENCHING NOT INCLUDED, C.I.P.

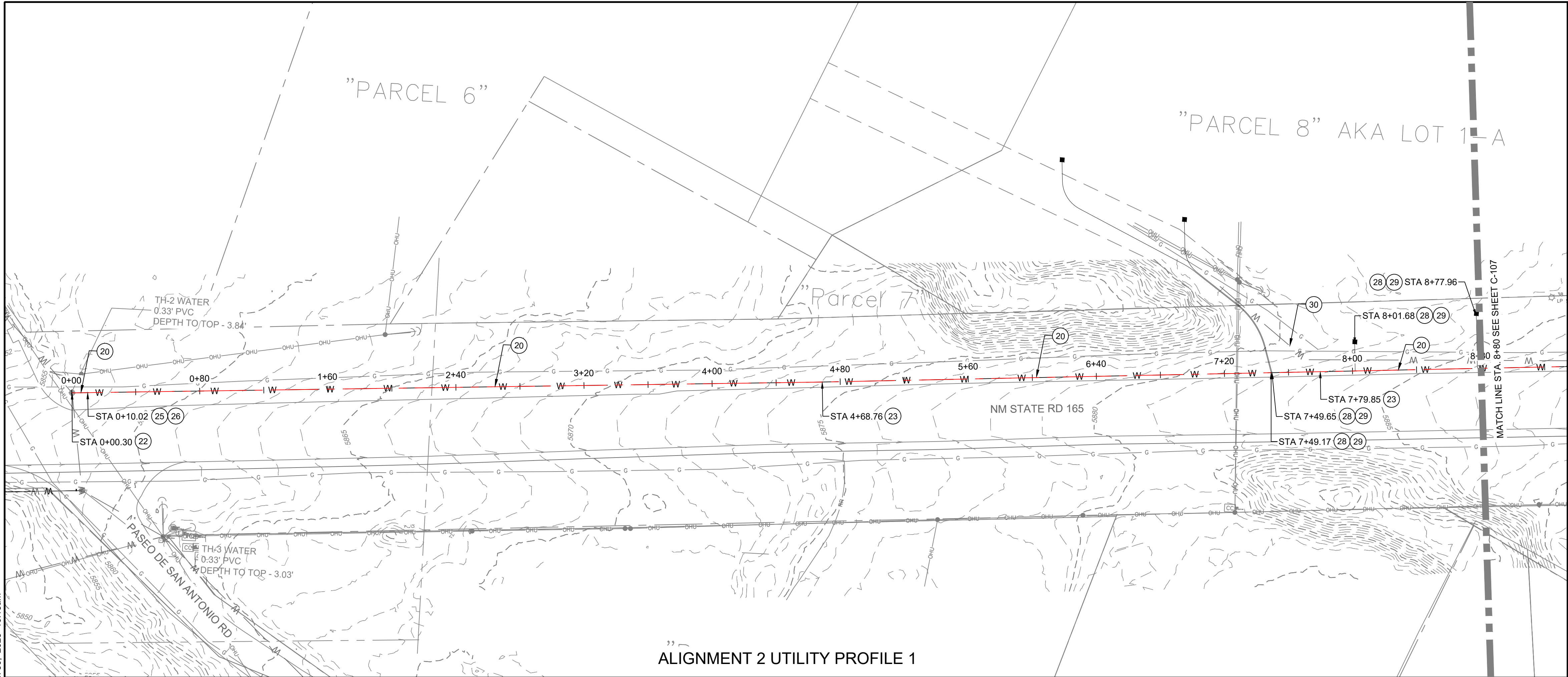
NOTES:

1. POST WATERLINE INSTALLATION, CONTRACTOR TO RE-GRADE GROUND TO MATCH EXISTING.
2. SEE SHEET C-103 FOR JOINT TABLE RESTRAINT REQUIREMENTS
3. CONTRACTOR TO MAINTAIN 4' COVER OVER PIPE. CONTACT ENGINEER IF ISSUES ARISE.
4. AT INTERSECTION OF NM STATE RD 165 AND PASEO DE SAN ANTONIO RD CONTRACTOR TO USE CAUTION WHEN EXPOSING EXISTING WATERLINES, AS THE AREA HAS COMPLEX EXISTING DESIGN. CONTRACTOR TO LOCATE EXISTING TEE AT NM STATE 165 AND PASEO DE SAN ANTONIO RD AND REUSE TEE FOR TIE IN LOCATION FOR NEW 4 INCH WATERLINE ON NM STATE 165.
5. REFER TO DOGLEG DETAIL ON SHEET C-503 FOR WATERLINE UNDER ARROYO. LEAN FILL INCIDENTAL TO PROJECT.

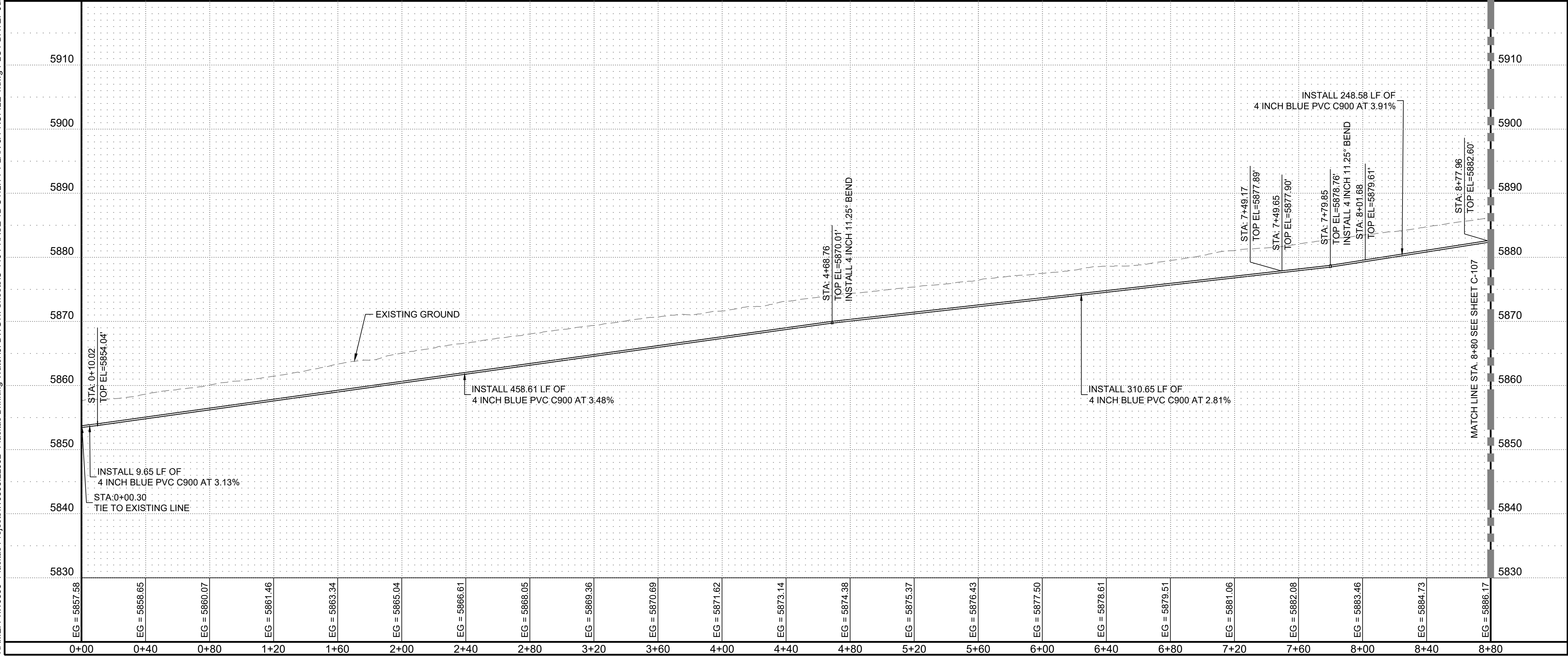


DESIGNED CDS	DRAWN CDS	CHECKED CDS	DATE 6.30.2025	REVISION
CDS COMMUNITY DESIGN SOLUTIONS, LLC 834 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4487				
STAMP				THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED
CASSY L. MCCLINTOCK 29490 6.30.2025 PROFESSIONAL ENGINEER				
PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS				ALIGNMENT 1 UTILITY PLAN & PROFILE 2
ISSUED FOR: FOR CONSTRUCTION				
SHEET NUMBER: C-105				

NAME: P:\W0393- Placitas Projects\W0393.22002- Placitas Drinking Water\3. DWG\3A. Sheets\C-10 PHASE 1B UTILITY PLAN & PROFILE 4.dwg PLOT DATE: Jun 30, 2025 10:15am



ALIGNMENT 2 UTILITY PROFILE 1

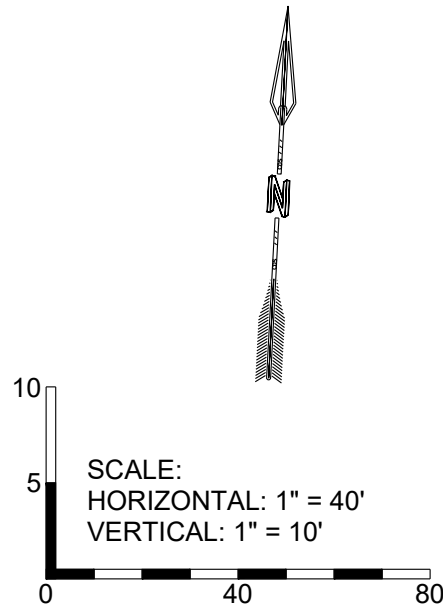


Ⓢ BUILD NOTES:

20	APWA 801	4" BLUE C900 PVC WATERLINE EXCL. FITTINGS, (STD. SPEC. SEC. 801), INCL. TRACE WIRE, TRENCH & COMPACTED BACKFILL TO 6' DEPTH, C.I.P.
22	APWA 801	NON-PRESSURIZED CONNECTION EXISTING WATERLINE, ALL SIZES, INCL. FITTINGS, C.I.P.
23	APWA 801	DUCTILE IRON MJ FITTINGS, CLASS 250, 4" TO 14" WATERLINE, INCL. JOINTING MATERIAL, C.I.P.
25	APWA 801	VALVE BOX, RING AND COVER, AND ADJUST TO GRADE, C.I.P.
26	APWA 801	4" GATE VALVE, C.I.P.
28	APWA 802	3/4" WATER SERVICE LINE, NEW SINGLE CONNECTION INSTALLED WITH NEW WATERMAIN, C.I.P.
29	APWA 802	WATER METER BOX, 3/4" TO 1", INCL. CONCRETE PAD, COVER & LID, C.I.P.
30	APWA 801	EXISTING WATERLINE, UP TO 14", WITH FITTINGS, REMOVE & DISPOSE, TRENCHING NOT INCLUDED, C.I.P.

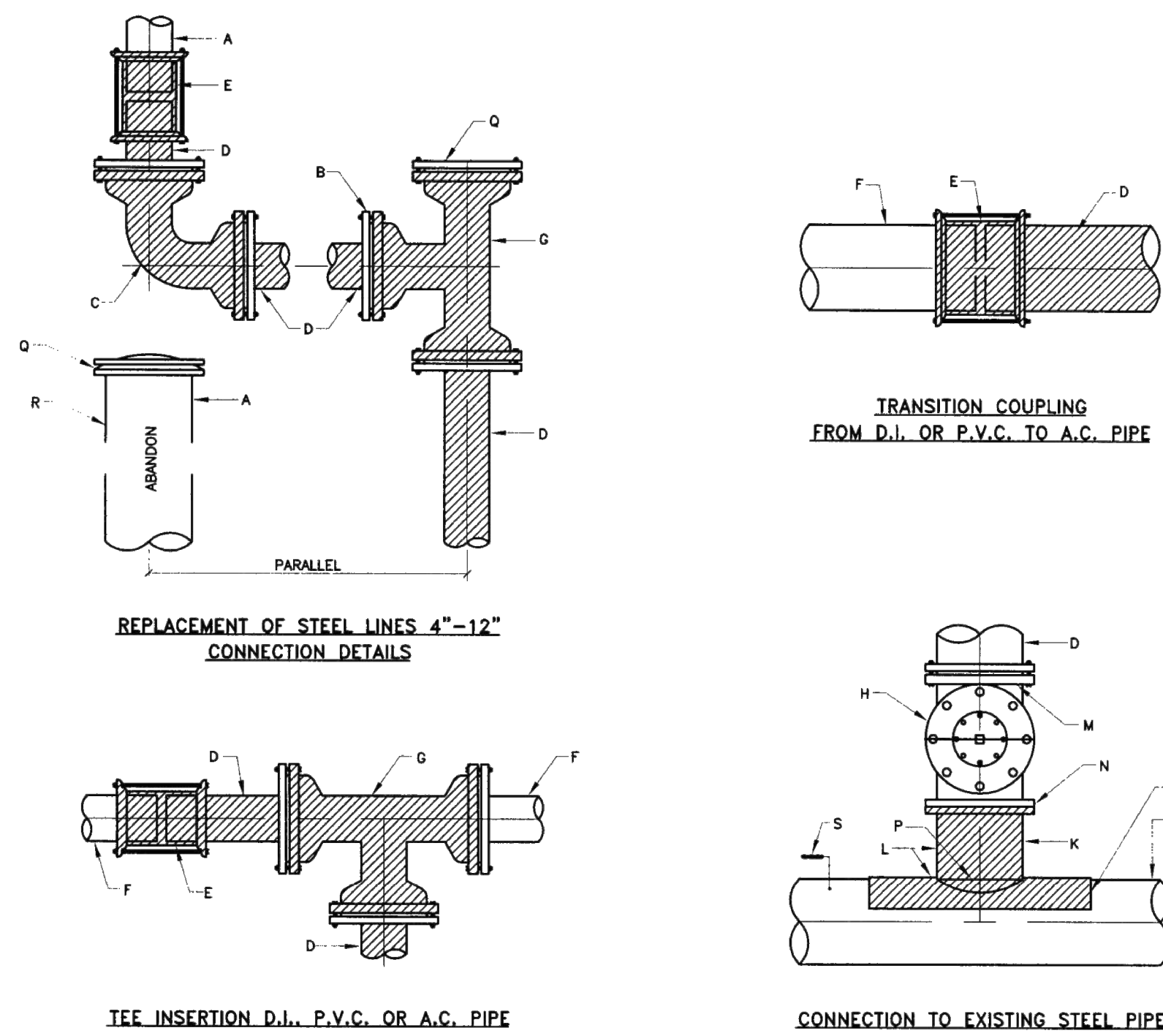
NOTES:

1. POST WATERLINE INSTALLATION, CONTRACTOR TO RE-GRADE GROUND TO MATCH EXISTING.
2. SEE SHEET C-103 FOR JOINT TABLE RESTRAINT REQUIREMENTS
3. CONTRACTOR TO MAINTAIN 4' COVER OVER PIPE. CONTACT ENGINEER IF ISSUES ARISE.



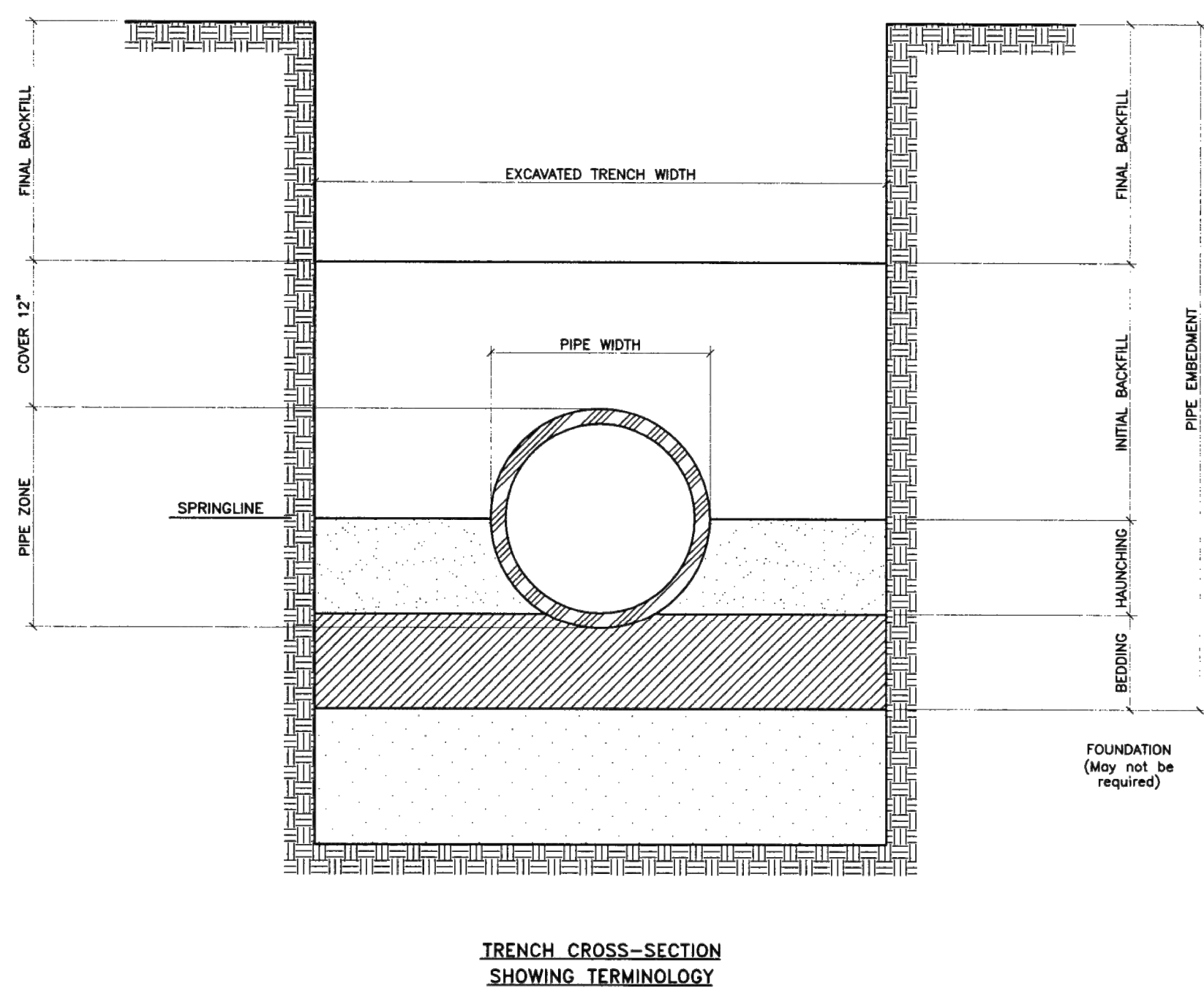
DESIGNED CDS	DRAWN CDS	CHECKED CDS	DATE 6.30.2025
CDS COMMUNITY DESIGN SOLUTIONS, LLC 3301 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187			
STAMP 			
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED. 			
PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS		SHEET TITLE: ALIGNMENT 2 UTILITY PLAN & PROFILE 1	
ISSUED FOR: FOR CONSTRUCTION		SHEET NUMBER: C-106	

NAME: P:\W0303 - Placitas Projects\W0303-22002 - Placitas Drinking Water\3. DWG\34. Sheets\C-502 DETAILS 3.dwg PLOT DATE: Jun 30, 2025 10:18am



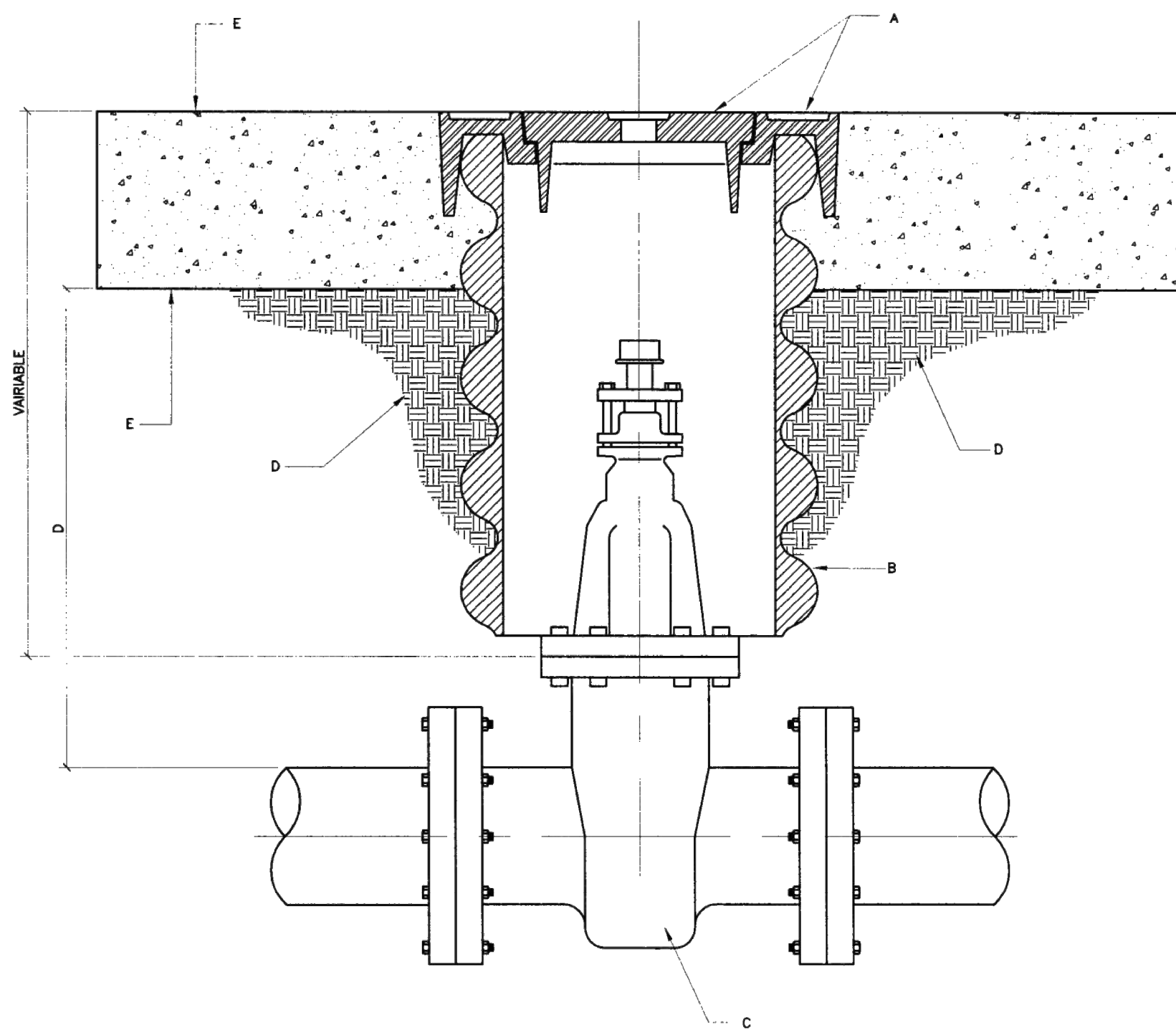
- GENERAL NOTES:**
- 1 ALL NEW PIPE AND FITTINGS SHALL BE PROVIDED WITH THRUST CONTROL.
 - 2 THRUST CONTROL SHALL BE BY RESTRAINED JOINTS ONLY UNLESS DIRECTED OTHERWISE BY ENGINEER.
- CONSTRUCTION NOTES:**
- A EXISTING STEEL PIPE.
 - B REDUCE AT TEE, IF EXISTING LINE IS SMALLER THAN NEW LINE.
 - C M.J., C.I. ELBOW WITH JOINT RESTRAINT.
 - D NEW D.I. OR P.V.C., WITH VALVE AS DIRECTED.
 - E RESTRAINED TRANSITION COUPLING FOR A.C. RESTRAINED SOLID SLEEVE FOR D.I., C.I. AND PVC.
 - F EXISTING D.I., OR C.I. OR P.V.C. IF A.C., USE PAD ADAPTER.
 - G M.J. C.I. TEE WITH JOINT RESTRAINT.
 - H GATE VALVE FL-M.J WITH JOINT RESTRAINT.
 - J WELDING COLLAR.
 - K STEEL WELDING NECK FL.
 - L TAR COAT COLLAR, NECK AND DAMAGED PIPE COATING.
 - M M.J. FLANGE.
 - N FLANGE.
 - P PRESSURIZED CONNECTION.
 - Q M.J., C.I. PLUG OR CAP WITH JOINT RESTRAINT.
 - R REMOVE AT LEAST 10' OF PIPE TO BE ABANDONED AND CAP OR PLUG.
 - S TAC-WELD SACRIFICIAL ANODE TO STEEL PIPE.

REVISIONS	NM APWA
	WATER
	WATERLINE CONNECTION DETAILS
	DWG. 2301 FEB. 2006



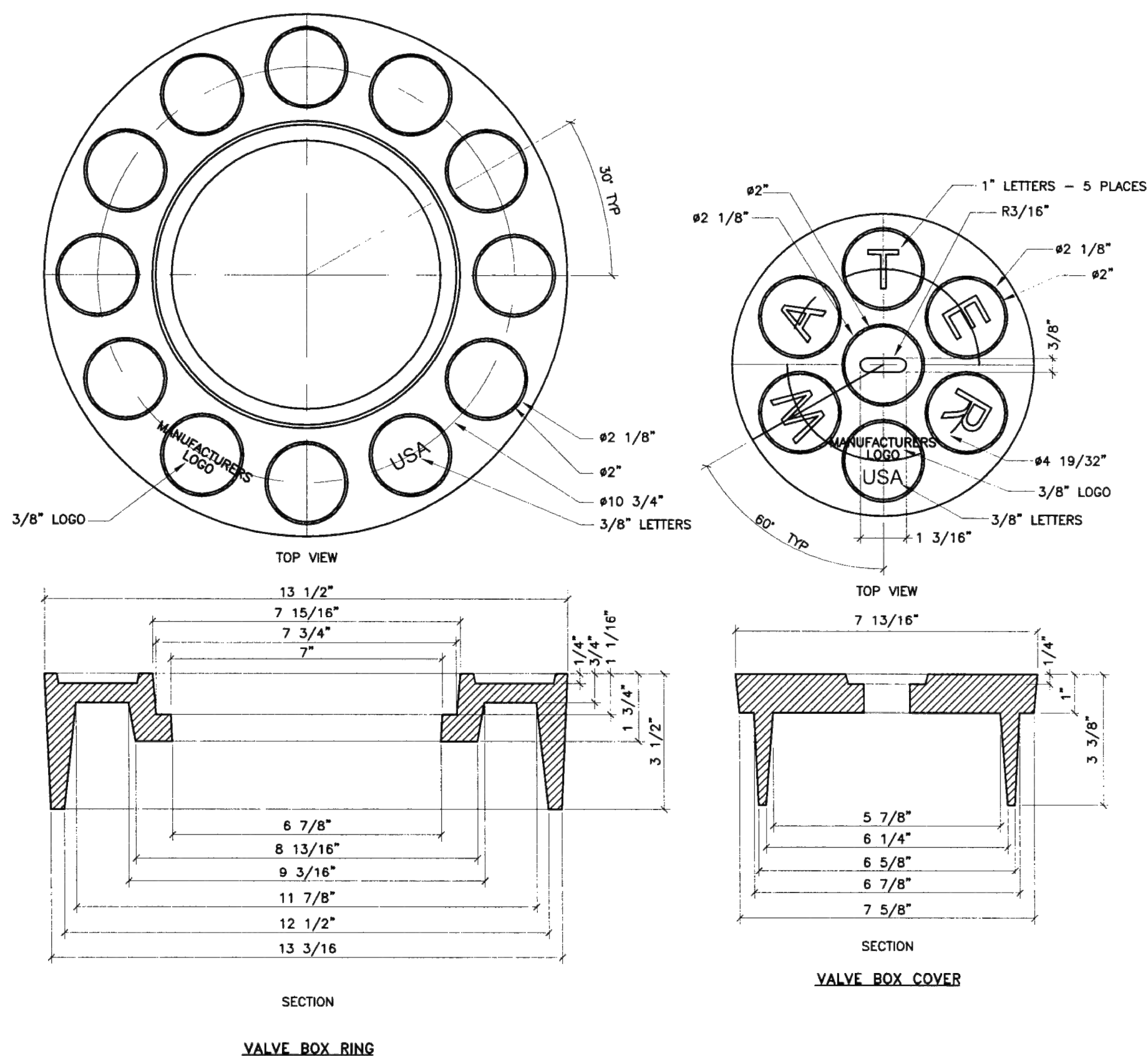
- GENERAL NOTES:**
- 1 MECHANICAL TAMPERS SHALL NOT BE USED IN THE INITIAL BACKFILL REGION FOR FLEXIBLE PIPE. WHEN FLEXIBLE PIPE IS USED, CONTRACTOR SHALL, PRIOR TO THE START OF CONSTRUCTION, PROVIDE THE PROPOSED COMPACTION METHOD IN THE INITIAL BACKFILL REGION TO THE ENGINEER FOR APPROVAL.
 - 2 MINIMUM CLASS "C" BEDDING WILL BE USED.

REVISIONS	NM APWA
	WATER
	PIPE TRENCH TERMINOLOGY
	DWG. 2315 FEB. 2006



- GENERAL NOTES:**
- A VALVE BOX RING AND COVER PER STD. DWG. 2328.
 - B 10" DIAMETER RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR (C-900).
 - C NEW OR EXISTING VALVE.
 - D COMPACTED BACKFILL - SOIL OR BASE COURSE MATERIAL (95% COMPACTION). SEE SECTION 701.
 - E CONCRETE COLLAR PER STD. DWG. 2461.
 - F TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.
 - G MIN. 6" OR MATCH EXISTING.
- LINE SIZE, SEE NOTE F
- LINE DIRECTION, SEE NOTE F
- LABEL REQUIREMENTS

REVISIONS	NM APWA
	WATER
	VALVE BOX
	DWG. 2326 FEB. 2006

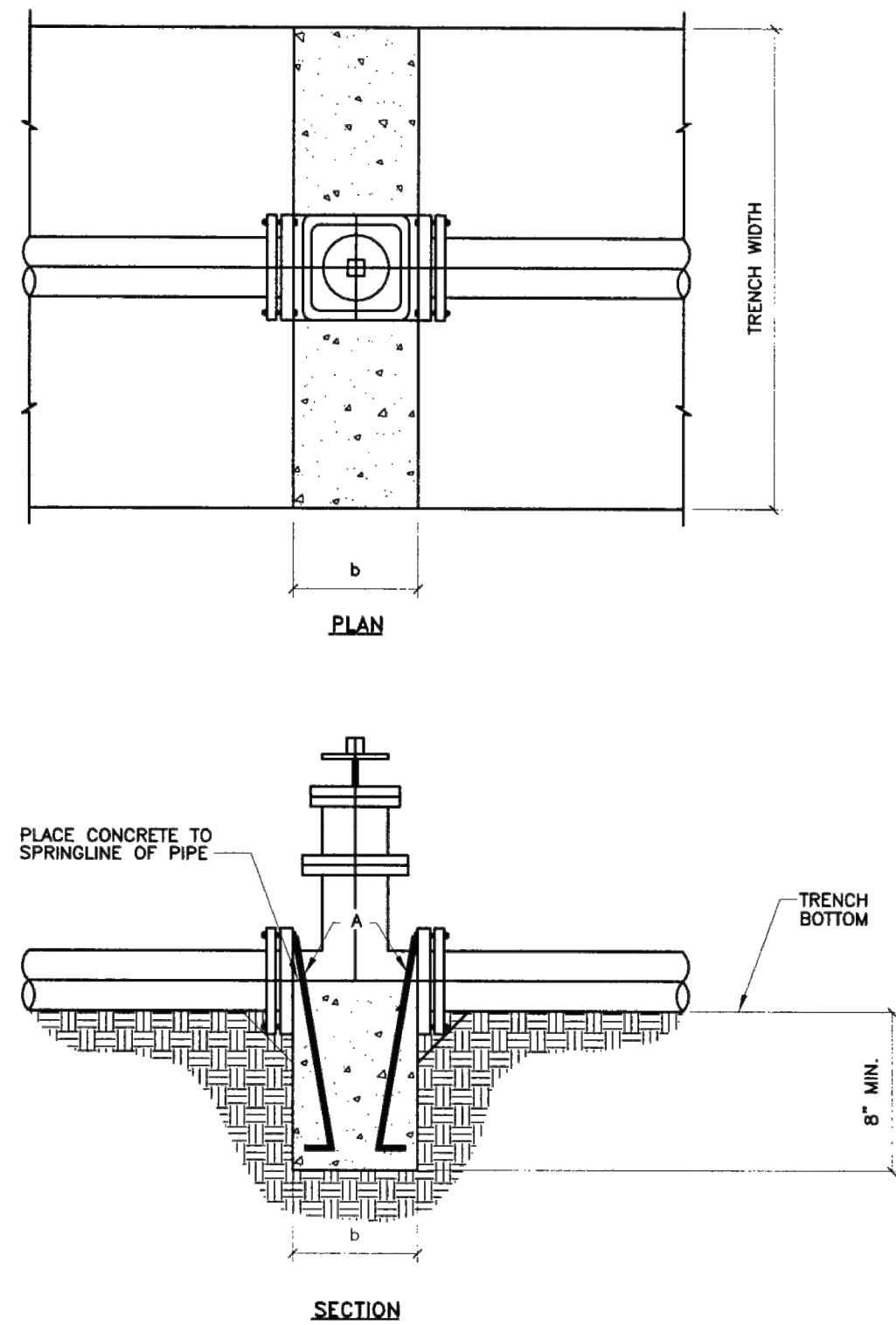


- GENERAL NOTES - RING**
- 1 VALVE BOX RING DESIGNED TO ACCEPT VALVE BOX COVER.
 - 2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
 - 3 FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.
 - 4 A DRAFT ANGLE OF 3'-5' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
 - 5 FINISH: REMOVE EXCESS IRON AND FINIS.
 - 6 THIS DETAIL DOES NOT APPLY FOR VALVE BOX RING AND COVER TO BE USED ON REUSE OR NON-POTABLE WATER SYSTEMS.
- GENERAL NOTES - COVER**
- 1 VALVE BOX COVER DESIGNED TO FIT INTO VALVE BOX RING.
 - 2 THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
 - 3 FILLETS SHALL BE 1/4"R UNLESS OTHERWISE SPECIFIED.
 - 4 A DRAFT ANGLE OF 3'-5' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
 - 5 FINISH: REMOVE EXCESS IRON AND FINIS.

REVISIONS	NM APWA
	WATER
	RING AND COVER FOR VALVE BOX
	DWG. 2328 FEB. 2006

DESIGNED CDS	DRAWN CDS	CHECKED CDS	DATE 6/30/2025	REVISION
CDS COMMUNITY DESIGN SOLUTIONS, LLC 934 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187				
STAMP CASSY L. MCCLINTOCK NEW MEXICO 29490 6/30/2025 PROFESSIONAL ENGINEER				
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED				
nm811 Know what's below. Call before you dig. PROJ. # W0303.22002				
PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS				
SHEET TITLE: DETAILS 1				
ISSUED FOR: FOR CONSTRUCTION				
SHEET NUMBER: C-500				

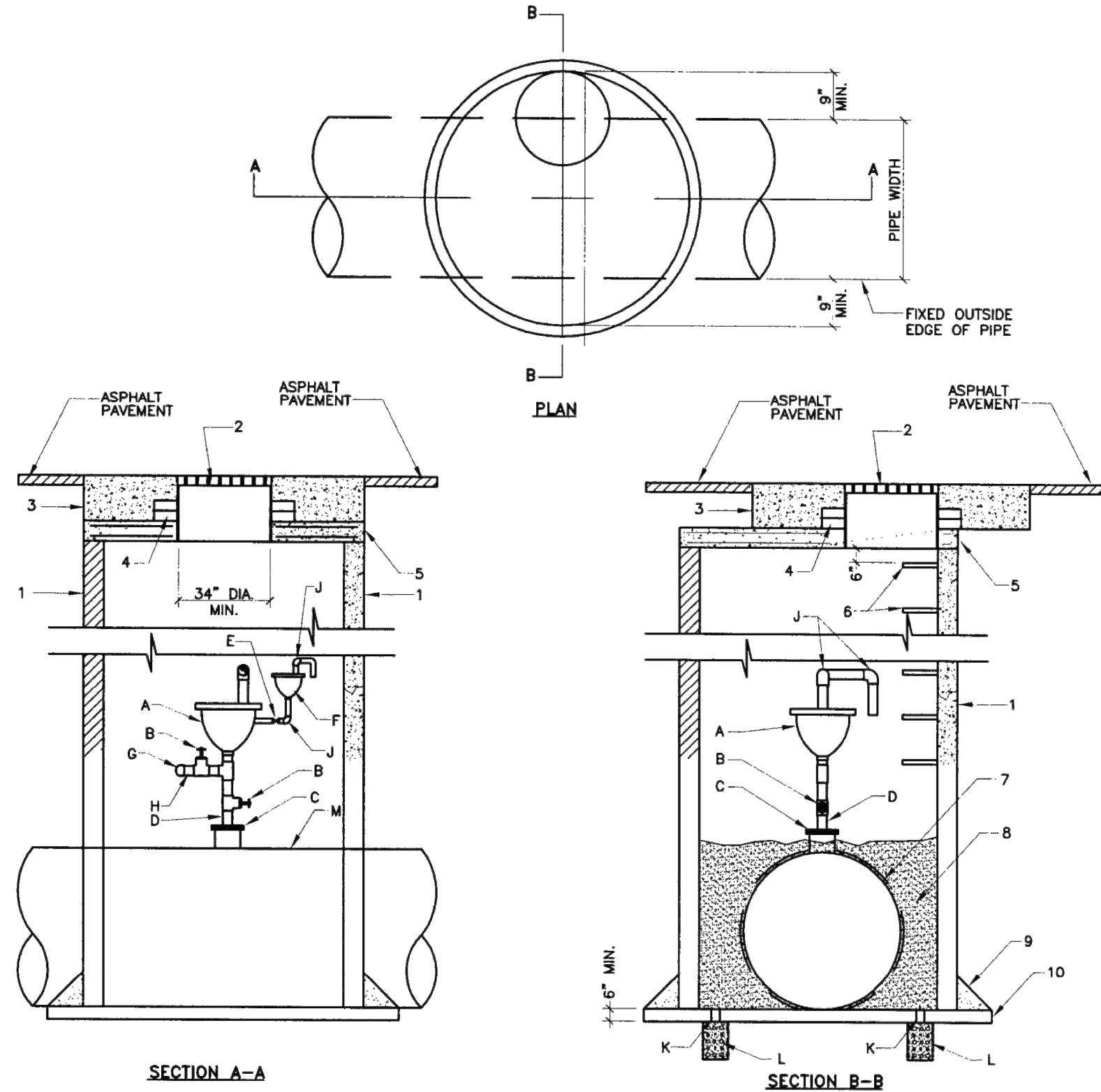
NAME: P:\W0393-Placitas Projects\W0393.22002-Placitas Drinking Water\3. DWG\4. Sheets\C-502 DETAILS 3.dwg PLOT DATE: Jun 30, 2025 10:18am



- GENERAL NOTES:**
- 1 THE ENGINEER SHALL PROVIDE DESIGN FOR ALL VALVES GREATER THAN 12".
 - 2 ALL THRUST CONTROL BY RESTRAINED JOINTS ONLY UNLESS OTHERWISE DIRECTED BY ENGINEER.
 - 3 USE FOR VALVE INSERTION INTO EXISTING LINES ONLY.
 - 4 CONCRETE USED FOR VALVE ANCHORAGE PER SEC. 101 HYDRAULIC STRUCTURAL CONCRETE, $f'_{cm}=4000$ psi @ 28 DAYS.
- CONSTRUCTION NOTES:**
- A TWO NO. 4 BARS FOR VALVE STRAPS WITH 3" HOOKS. HOOKS TO BE EMBEDDED BELOW BOTTOM OF PIPE. BARS TO BE COATED WITH BITUMINOUS MATERIAL TO PREVENT CORROSION.

PIPE SIZE	DM. b
6"	8"
8"	9"
10"	10"
12"	10"

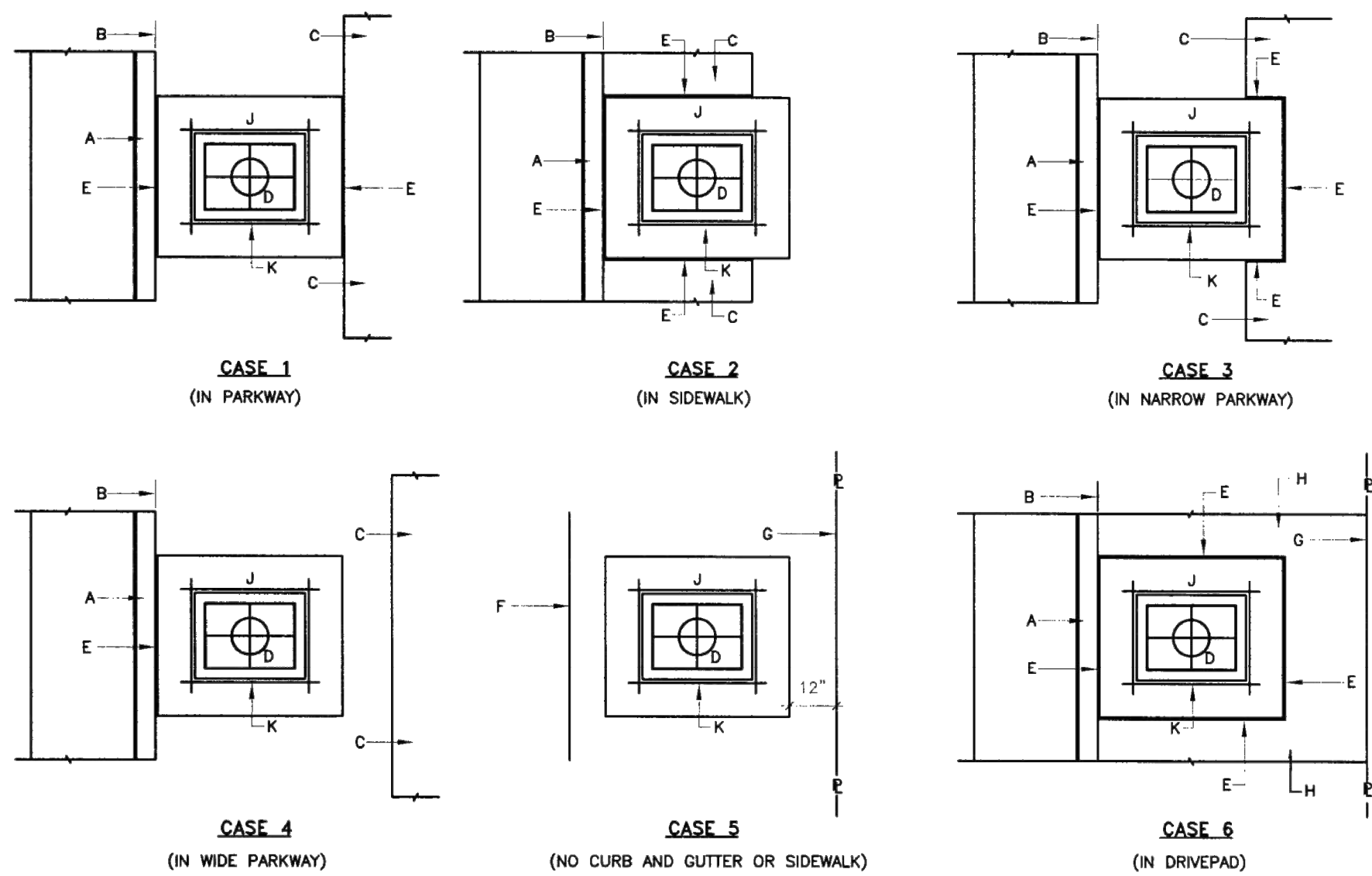
REVISIONS	NM APWA
	WATER
	WATER VALVE INSERTION ANCHORAGE
	DWG. 2333 FEB. 2006



- MATERIALS LIST**
- NOTE:** ALL PIPING AND FITTINGS SHALL BE SCH. 40 THREADED GALVANIZED STEEL. SIZE IS DETERMINED BY SPECIFIC AIR/VACUUM RELEASE VALVE TO BE INSTALLED.
- A COMBINATION AIR AND VACUUM RELEASE VALVE, SIZE AS SHOWN ON PLAN.
- B GATE VALVE, SAME SIZE AS COMBINATION AIR AND VACUUM RELEASE VALVE INLET.
- C MINIMUM 6" FLANGE NOZZLE OR FLANGE TAPPING SADDLE. PROVIDE BLIND FLANGE TAPPED FOR THREADED NIPPLE. WHERE AIR/VAC VALVE IS SHOWN TO BE LESS THAN 6".
- D CAST IRON NIPPLE.
- E 1" BALL VALVE.
- F 1" AIR RELEASE VALVE.
- G THREADED CAP.
- H THREADED NIPPLE FOR VENT AND HOSE CONNECTION.
- J 90° ELBOW.
- K 4" DIA. SCHEDULE 40 PVC PIPE SLEEVE THROUGH MANHOLE BASE.
- L 12"x12"x18" DEEP 1" CLEAN GRAVEL. ASTM C33, NO. 57 GRAVEL.
- M WATER MAIN.

- CONSTRUCTION NOTES:**
- 1 MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, GR. MS BRICK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF BLOCK OR BRICK, PLASTER INSIDE AND OUT WITH 1/2" MORTAR. SEE DWG. 2101.
 - 2 USE 36" MH FRAME AND COVER. COVER MARKED "WATER".
 - 3 CONCRETE COLLAR PER STD. DWG. 2461.
 - 4 USE ADJUSTMENT RINGS OR MAX. 2 COURSES GR MS BRICK FOR ADJUSTMENT OF MH FRAME TO PAVEMENT GRADE.
 - 5 PRECAST CONCRETE COVER. SEE DWG. 2107, EXCEPT OPENING SHALL BE 34" DIAMETER MINIMUM.
 - 6 STEPS TO BE INSTALLED PER STD SPEC SEC 920.
 - 7 CUT MANHOLE TO PROVIDE A 4" CLEARANCE AROUND WATER MAIN.
 - 8 1" CLEAN GRAVEL TO TOP OF MAIN.
 - 9 6" GROUT FILLET AROUND BASE.
 - 10 CONCRETE BASE TO BE POURED IN PLACE USING #4 BARS AT 12" OC EACH WAY.

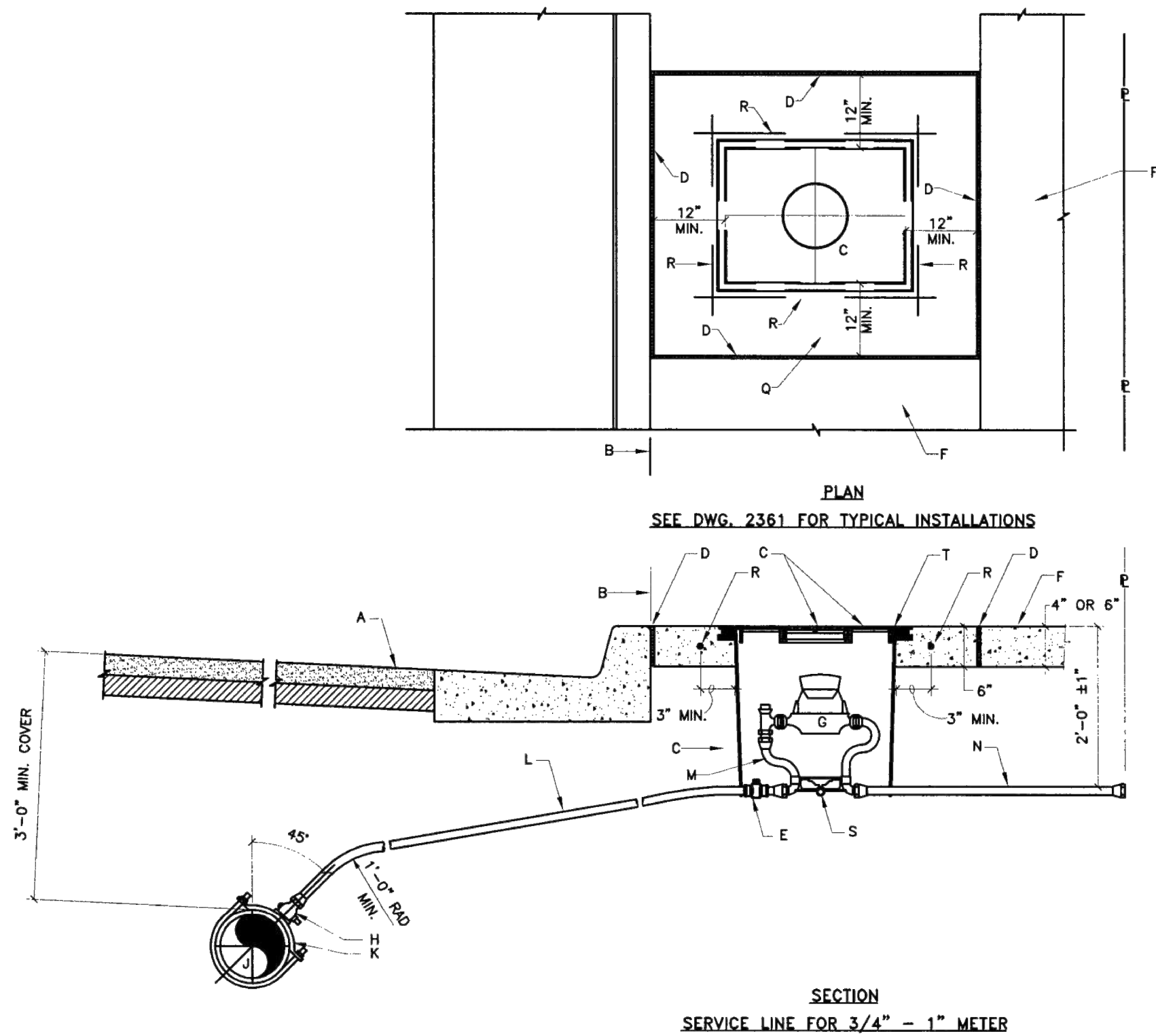
REVISIONS	NM APWA
	WATER
	AIR/VACUUM RELEASE VALVE
	DWG. 2350 FEB. 2006



TYPICAL INSTALLATIONS 3/4" - 1" METERS

- GENERAL NOTES:**
- 1 FOR CONSTRUCTION AND DIMENSIONS OF WATER METER BOX AND CONCRETE PAD, SEE DWG. 2362, 2363, 2368 & 2369.
 - 2 BECAUSE OF LIMITED SPACE, METER BOXES MAY BE ROTATED 90°. CONNECTIONS TO BE MADE PER OWNER APPROVAL.
 - 3 DOUBLE METER BOXES SHALL BE CENTERED ON ADJOINING PROPERTY LINES.
- CONSTRUCTION NOTES:**
- A CURB.
- B BACK OF CURB.
- C SIDEWALK.
- D METER BOX COVER, SEE DWGS. 2368 OR 2369.
- E 1/2" EXPANSION JOINT.
- F EDGE OF UNCURRED STREET OR GRADED STREET.
- G PROPERTY LINE.
- H DRIVEPAD.
- J CONCRETE PAD SEE DWG. 2362
- K #4 REBAR CONTINUOUS ALL AROUND METER BOX.

REVISIONS	NM APWA
	WATER
	TYPICAL METER BOX INSTALLATIONS
	DWG. 2361 FEB. 2006

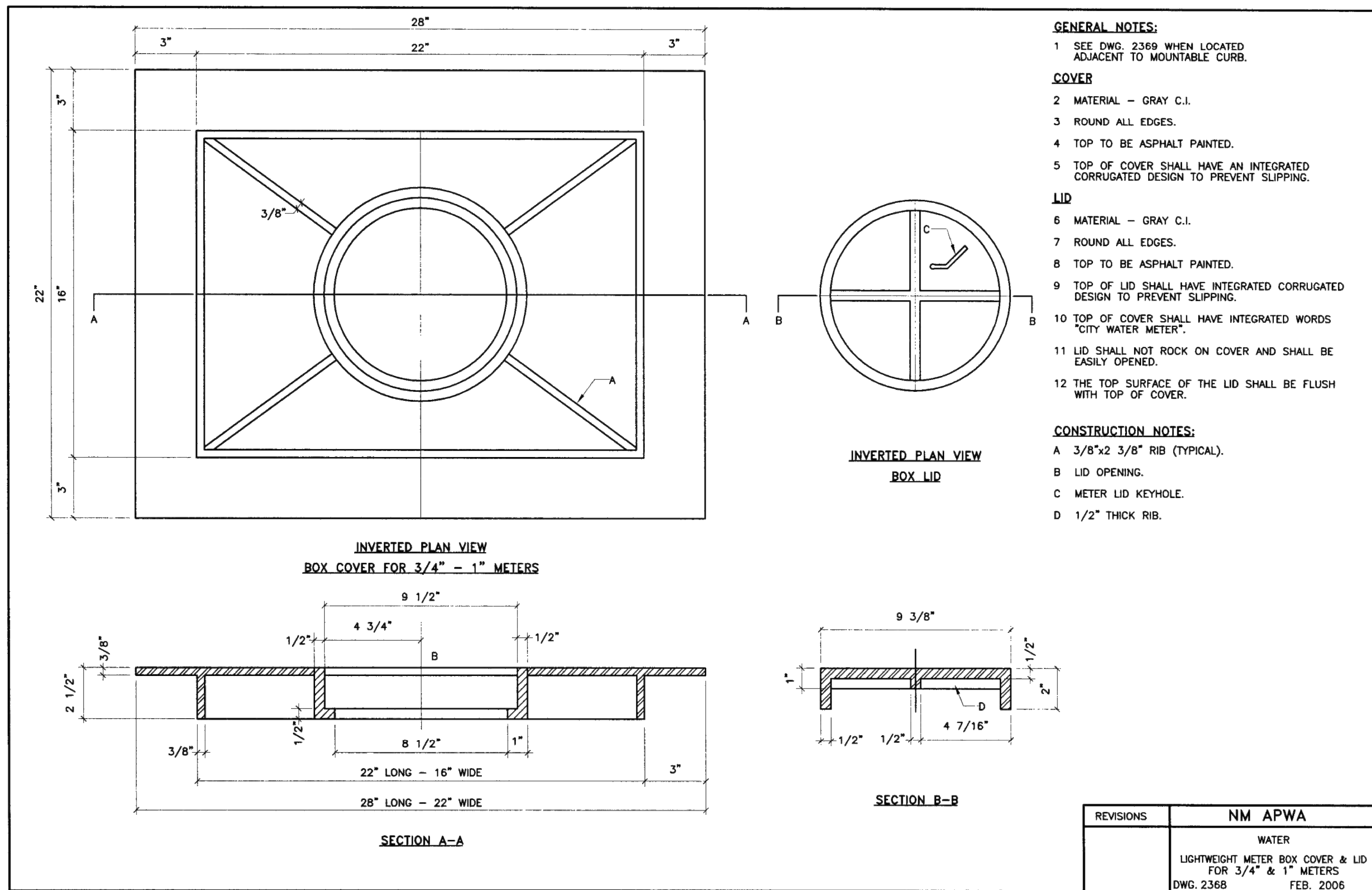
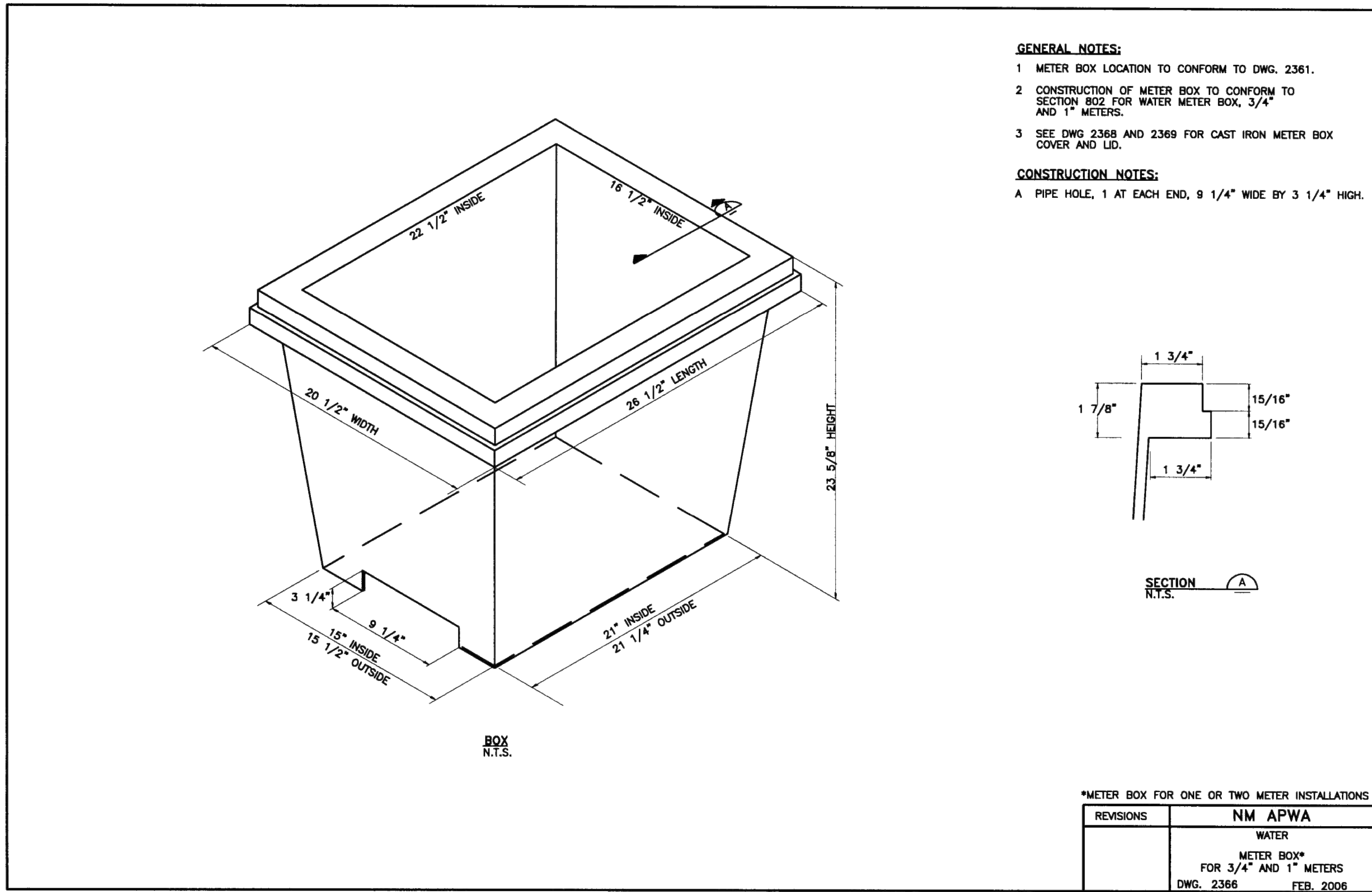
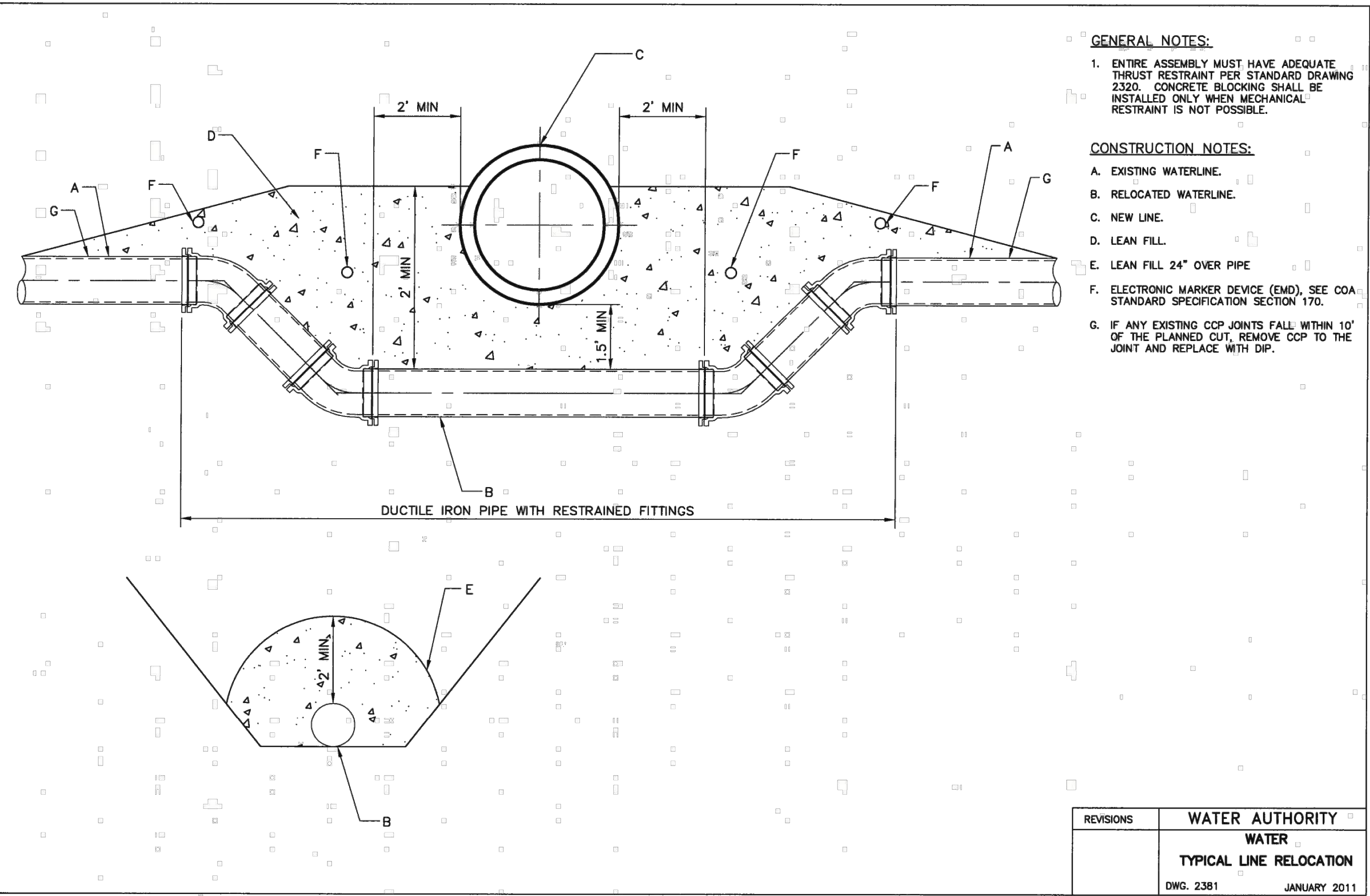


- GENERAL NOTES:**
- 1 THE METER SHALL BE SET UTILIZING A COPPER-SETTER. COPPER-SETTER HEIGHT 10" FOR 1" METER, 7" FOR 3/4" METER.
 - 2 THE VALVE AND METER REGISTER BOX SHALL BE LOCATED UNDER THE LID OPENING. WHERE TWO METERS ARE TO BE INSTALLED IN A SINGLE METER BOX, THE METER REGISTERS SHALL BE WITHIN READING RANGE OF THE LID OPENING.
 - 3 METER BOX LOCATION TO CONFORM TO DWG. 2361.
 - 4 WHEN CONTRACTOR DOES NOT INSTALL METER, CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER.
 - 5 EXISTING CONCRETE TO BE SAWCUT.
- CONSTRUCTION NOTES:**
- A STREET SURFACE.
- B BACK OF CURB.
- C CAST IRON METER BOX, COVER AND LID. SEE DWG. 2368 OR 2369.
- D 1/2" EXPANSION JOINT.
- E CURB STOP, LOCATE INSIDE METER BOX.
- F SIDEWALK OR DRIVEPAD.
- G METER. TOP OF METER TO BE 12"-18" BELOW COVER.
- H CORP STOP.
- J MAIN WATER LINE.
- K TAPPING SADDLE.
- L COPPER SERVICE LINE.
- M COPPER SETTER.
- N TAILPIECE TO PROPERTY LINE WITH INSTA-TITE (P.T. CAPPED FITTING). DOUBLE CHECK VALVE SHALL BE INSTALLED IN WATER ZONES DW. 1W, & 1E.
- Q CONCRETE PAD REQUIRED IN ALL AREAS PER SEC. 101 EXTERIOR CONCRETE, $f'_{cm}=3500$ psi @ 28 DAYS.
- R #4 REBAR CONTINUOUS ALL AROUND METER BOX.
- S STABILIZER BAR. USE FOR SINGLE METER ONLY. 12" LONG x 1/2" DIA. GALV. STEEL PIPE.
- T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

REVISIONS	NM APWA
	WATER
	3/4" - 1" METERED SERVICE LINE INSTALLATION
	DWG. 2362 FEB. 2006

DESIGNED CDS	DRAWN CDS	CHECKED CDS	DATE 6/30/2025	REVISION
CDS COMMUNITY DESIGN SOLUTIONS, LLC 830 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4187				
STAMP CASSY L. MCCLINTOCK NEW MEXICO 29490 6/30/2025 PROFESSIONAL ENGINEER				
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED				
nm811 Know what's below. Call before you dig. PROJ. # W0393.22002				
PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS				
SHEET TITLE: DETAILS 2				
ISSUED FOR: FOR CONSTRUCTION				
SHEET NUMBER: C-501				

NAME: P:\W0393-Placitas Projects\W0393-22002-Placitas Drinking Water\3-DWG\34-Sheets\C-502 DETAILS 3.dwg PLOT DATE: Jun 30, 2025 10:18am



DESIGNED CDS	DRAWN CDS	CHECKED CDS	DATE 6/30/2025	REVISION
CDS COMMUNITY DESIGN SOLUTIONS, LLC 930 ALBUQUERQUE, NEW MEXICO 87114 PHONE: (505)366-4487				
STAMP CASSY L. MCCLINTOCK NEW MEXICO 29490 6/30/2025 PROFESSIONAL ENGINEER				
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED				
nm811 Know what's below. Call before you dig. PROJ. #: W0393.22002				
PROJECT NAME: DOMESTIC WATER DISTRIBUTION SYSTEMS				
SHEET TITLE: DETAILS 3				
ISSUED FOR: FOR CONSTRUCTION				
SHEET NUMBER: C-502				