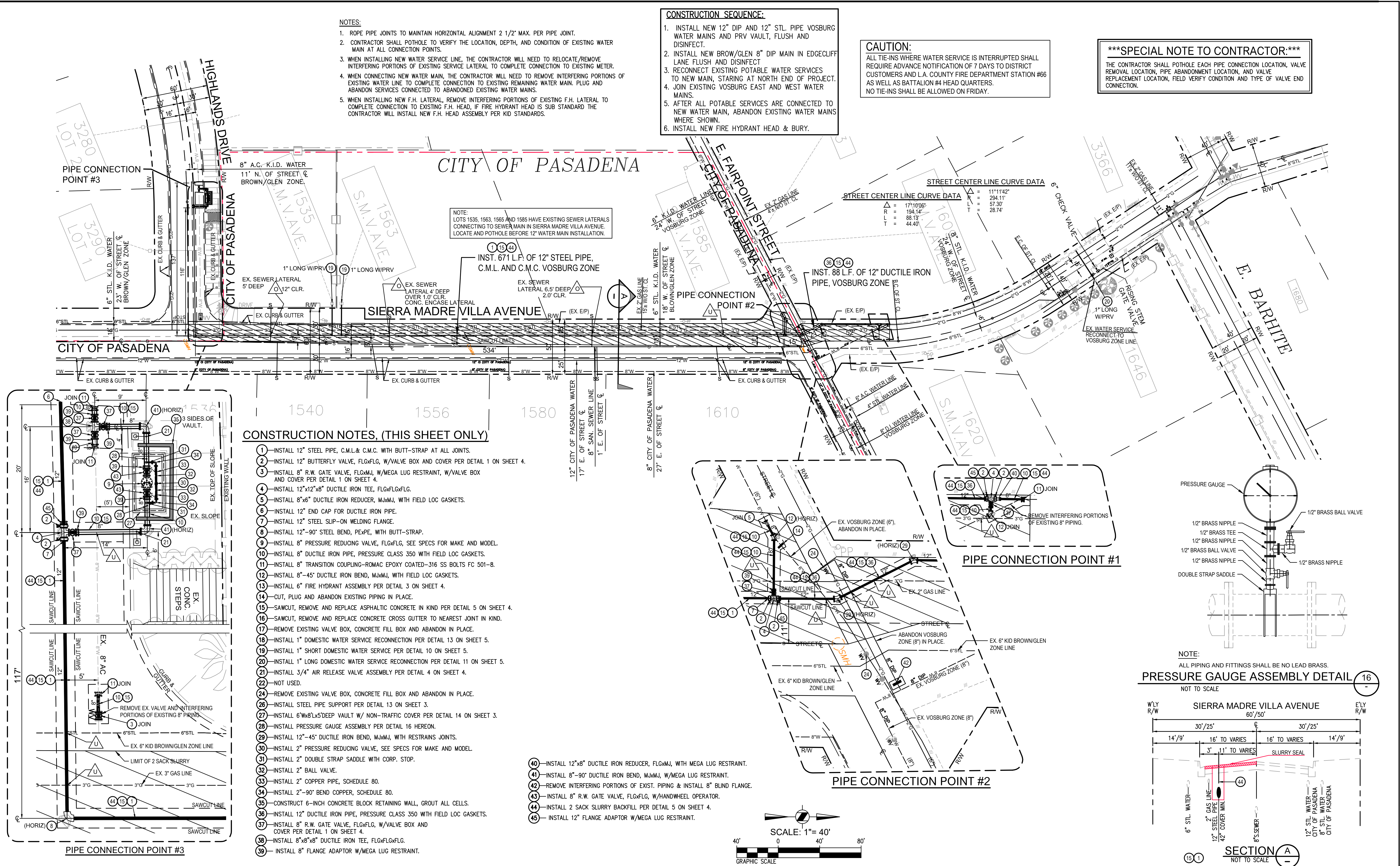


PLANS FOR SIERRA MADRE VILLA AVE., VILLA KNOLLS DR., AND EDGECLIFF LN. WATER LINE IMPROVEMENT PROJECT

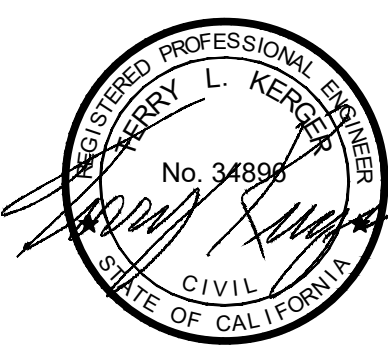
GENERAL NOTES

fornia

X:\2025\2025163.00-KID- REDESIGN BROWN GLEN PIPELINE.DWG(SHEETS)IMPROVEMENT PLANS\2025163.00 SHT 02 SIERRA VILLA SHT.DWG (08-26-26 12:07:44PM)



REFERENCES					
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION



APPROVED BY: KINNELOA IRRIGATION DISTRICT

GENERAL MANAGER

DATE

PLANS PREPARED BY:

CIVILTEC
engineering inc.

Civil, Water, Wastewater, Drainage, Transportation and Electrical/Controls Engineering Construction Management • Surveying California • Arizona

605 E. Huntington Drive
Suite 205
Monrovia, CA 91016
Phone: 626.357.0588
Web: www.civiltec.com

KINNELOA IRRIGATION DISTRICT

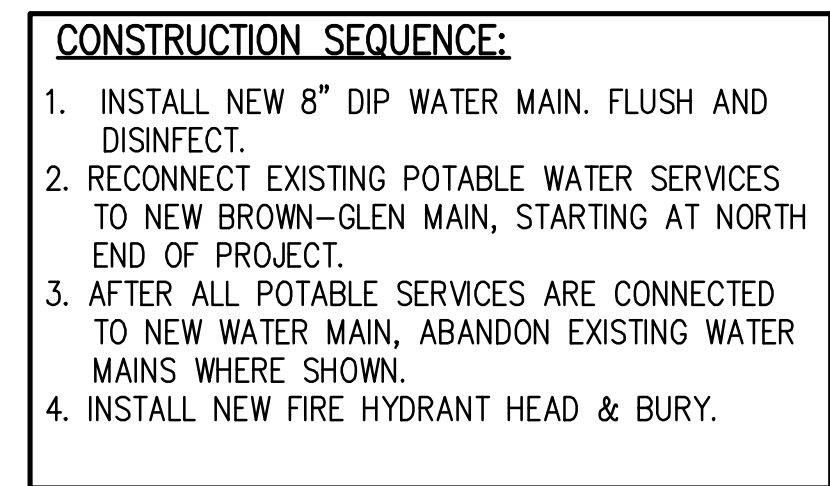
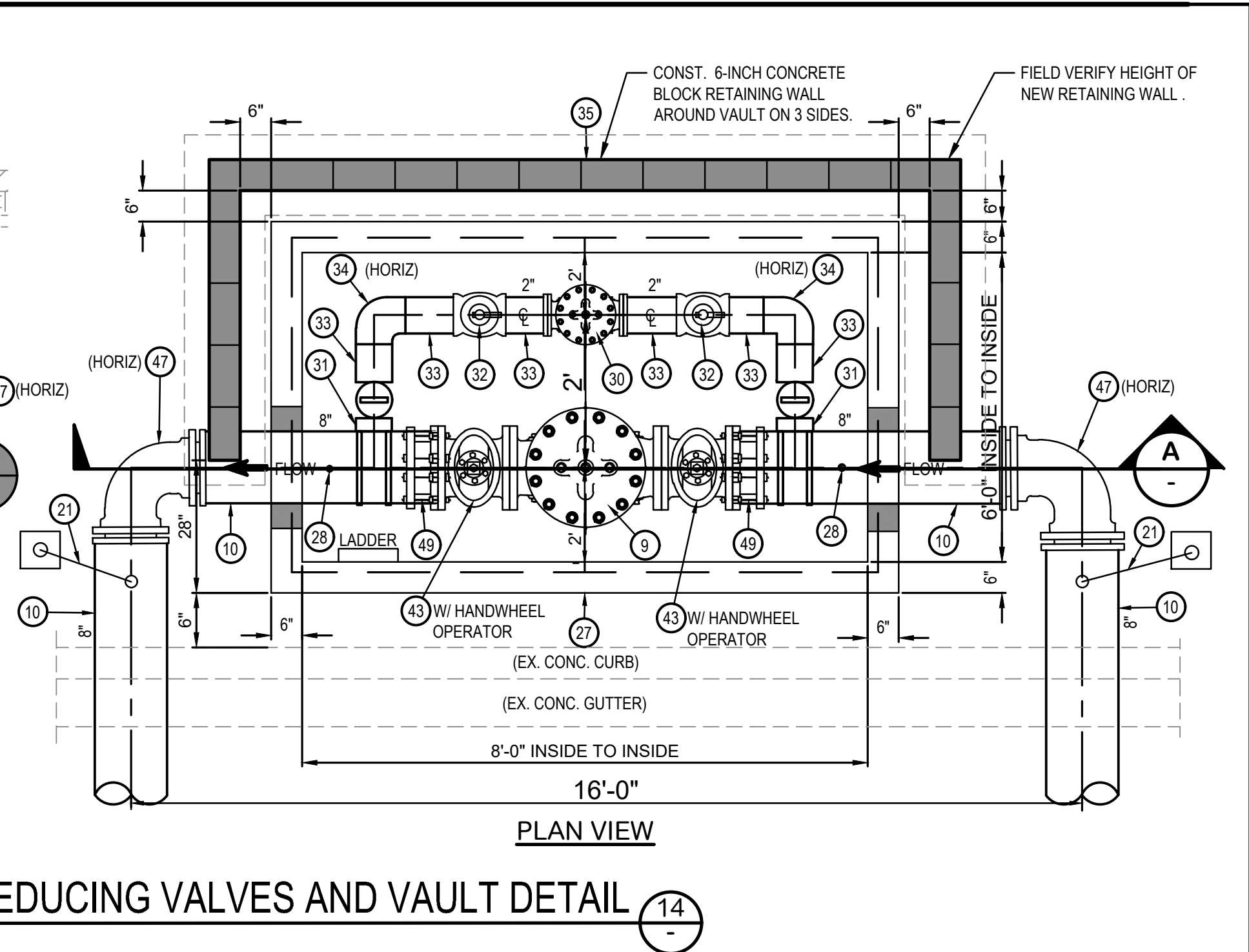
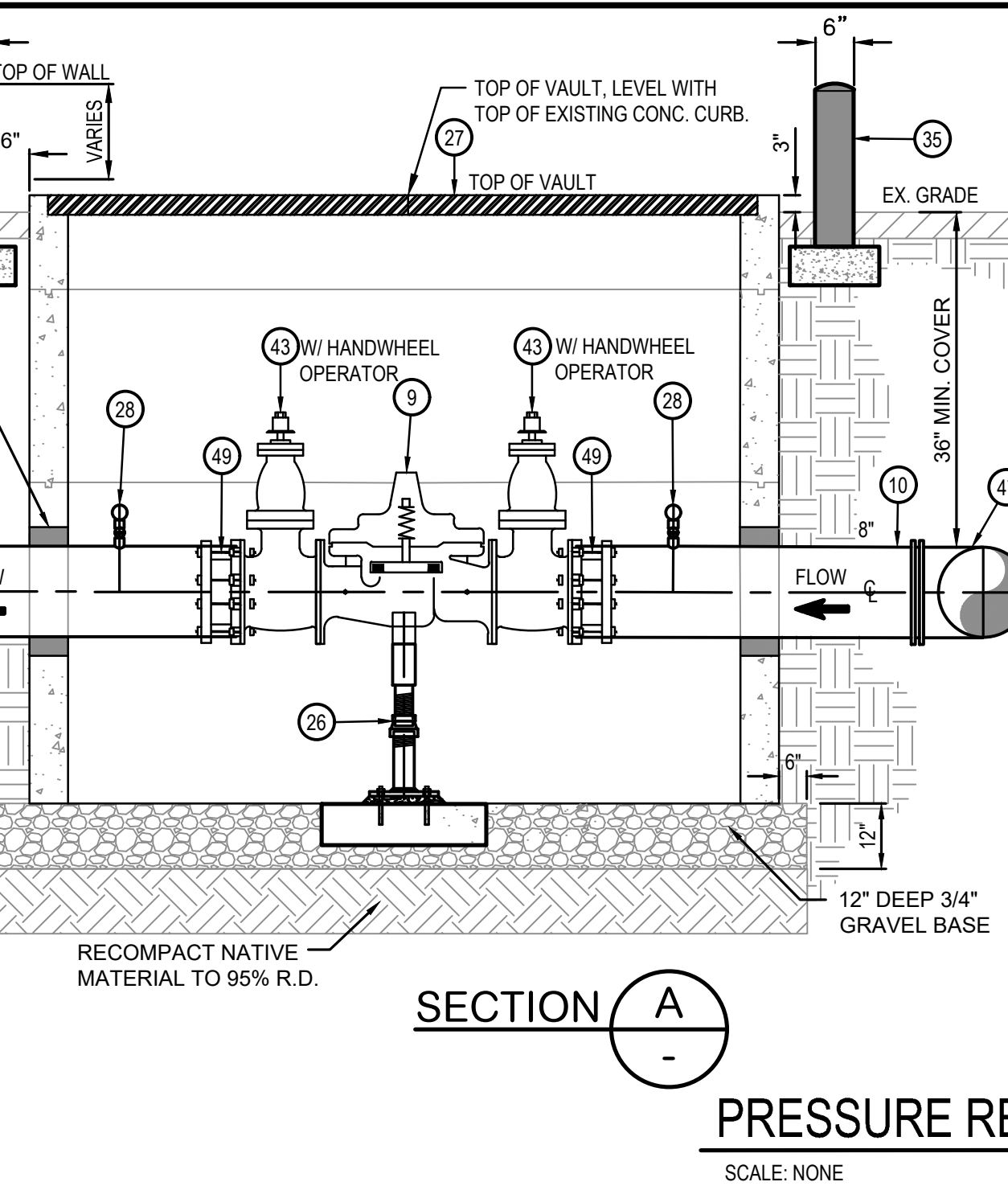
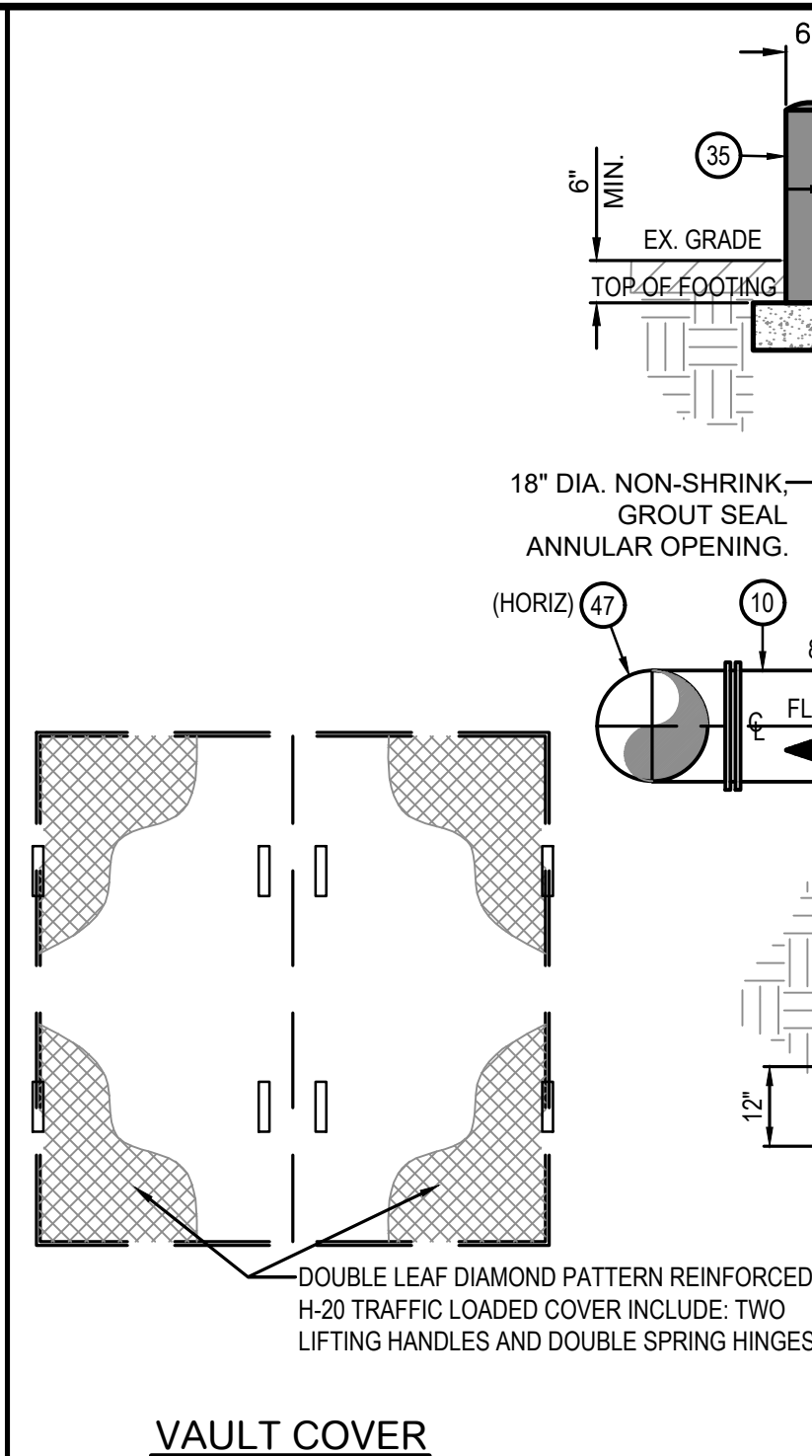
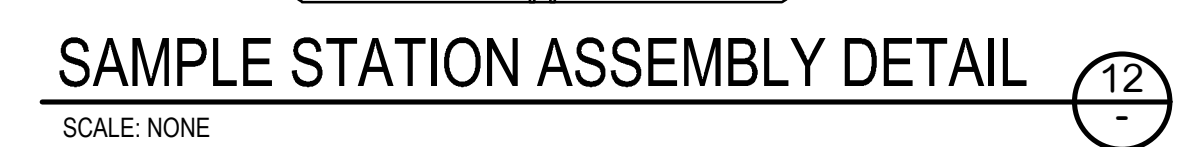
WATER DISTRIBUTION SYSTEM

SIERRA MADRE VILLA AVENUE AND VILLA KNOLLS DRIVE

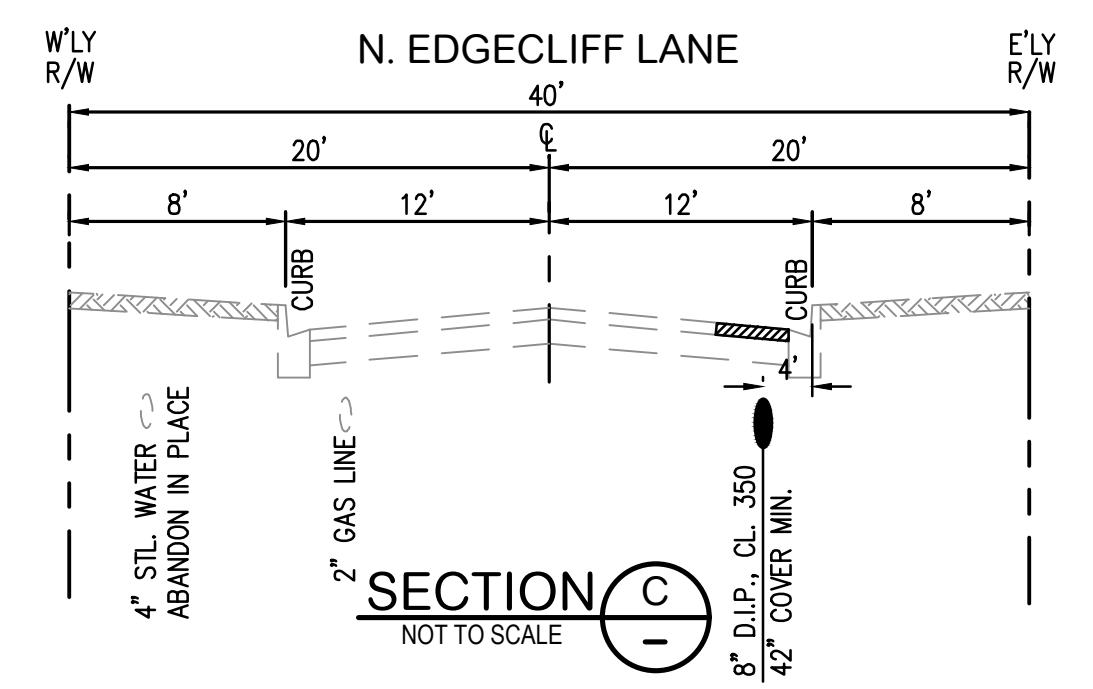
WATER MAIN REPLACEMENT PLAN

DESIGNED: CFD CHECKED: TLK DRAWN: CFD SCALE: AS SHOWN

DESIGN DATE: JULY 2026 DRAWING No.: 2025163.00 SHEET 2 OF 5

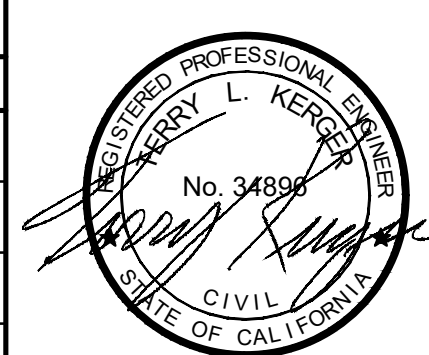


- 3-INSTALL 8" R.W. GATE VALVE, FLGxFLG, W/MEGA LUG RESTRAINT, W/VALVE BOX AND COVER PER DETAIL 1 ON SHEET 4.
- 9-INSTALL 8" PRESSURE REDUCING VALVE, FLGxFLG, SEE SPECS FOR MAKE AND MODEL.
- 10-INSTALL 8" DUCTILE IRON PIPE, PRESSURE CLASS 350 WITH FIELD LSS CO GASKETS.
- 11-INSTALL 8" TRANSITION COUPLING-ROMAC EPOXY COATED-316 SS BOLTS FC 501-12.
- 13-INSTALL 6" FIRE HYDRANT ASSEMBLY PER DETAIL 3 ON SHEET 4.
- 14-CUT, PLUG AND ABANDON EX. PIPING IN PLACE.
- 15-SAWCUT, REMOVE AND REPLACE ASPHALTIC CONCRETE IN KIND PER DETAIL 5 ON SHEET 4.
- 16-SAWCUT, REMOVE AND REPLACE CONCRETE CROSS GUTTER TO NEAREST JOINT IN KIND.
- 17-REMOVE EXISTING VALVE BOX, CONCRETE FILL BOX AND ABANDON IN PLACE.
- 21-INSTALL 3/4" AIR RELEASE VALVE ASSEMBLY PER DETAIL 4 ON SHEET 4.
- 22-NOT USED
- 23-REMOVE EXISTING FIRE HYDRANT ASSY, SALVAGE EXISTING FIRE HYDRANT HEAD.
- 25-INSTALL WATER SAMPLE STATION PER DETAIL 12 ON SHEET 3.
- 26-INSTALL STEEL PIPE SUPPORT PER DETAIL 13 ON SHEET 3.
- 27-INSTALL 6'x8'x5"DEEP VAULT W/ NON-TRAFFIC COVER PER DETAIL 14 ON SHEET 3.
- 28-INSTALL PRESSURE GAUGE ASSEMBLY PER DETAIL 16 ON SHEET 2.
- 30-INSTALL 2" PRESSURE REDUCING VALVE, SEE SPECS FOR MAKE AND MODEL.
- 31-INSTALL 2" DOUBLE STRAP SADDLE WITH CORP. STOP.
- 32-INSTALL 2" BALL VALVE.
- 33-INSTALL 2" COPPER PIPE, SCHEDULE 80.
- 34-INSTALL 2"-90° BEND COPPER, SCHEDULE 80.
- 35-CONSTRUCT 6-INCH CONCRETE BLOCK RETAINING WALL, GROUT ALL CELLS.
- 37-INSTALL 8" R.W. GATE VALVE, FLGxFLG, W/MEGA LUG RESTRAINT, W/VALVE BOX AND COVER PER DETAIL 1 ON SHEET 4.
- 38-INSTALL 8"x8"x8" DUCTILE IRON TEE, FLGxFLGxFLG.
- 39-INSTALL 8" FLANGE ADAPTOR W/MEGA LUG RESTRAINT.
- 41-INSTALL 8"-90° DUCTILE IRON BEND, MxMxJ, W/MEGA LUG RESTRAINT.
- 42-REMOVE INTERFERING PORTIONS OF EXISTING PIPING AND INSTALL 4" BLIND FLANGE AT TEE.
- 43-INSTALL 8" R.W. GATE VALVE, FLGxFLG, W/HANDWHEEL OPERATOR.
- 46-INSTALL 1" SHORT DOMESTIC WATER SERVICE PER DETAIL 14 ON SHEET 5.
- 47-INSTALL 1" LONG DOMESTIC WATER SERVICE RECONNECTION PER DETAIL 13 ON SHEET 5.



CAUTION:
ALL TIE-INS WHERE WATER SERVICE IS INTERRUPTED SHALL REQUIRE ADVANCE NOTIFICATION OF 7 DAYS TO DISTRICT CUSTOMERS AND L.A. COUNTY FIRE DEPARTMENT STATION #66 AS WELL AS BATTALION #4 HEAD QUARTERS.
NO TIE-INS SHALL BE ALLOWED ON FRIDAY.

REFERENCES							
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION	APP.	DATE

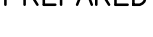


APPROVED BY: KINNELOA IRRIGATION DISTRICT

GENERAL MANAGER

DATE

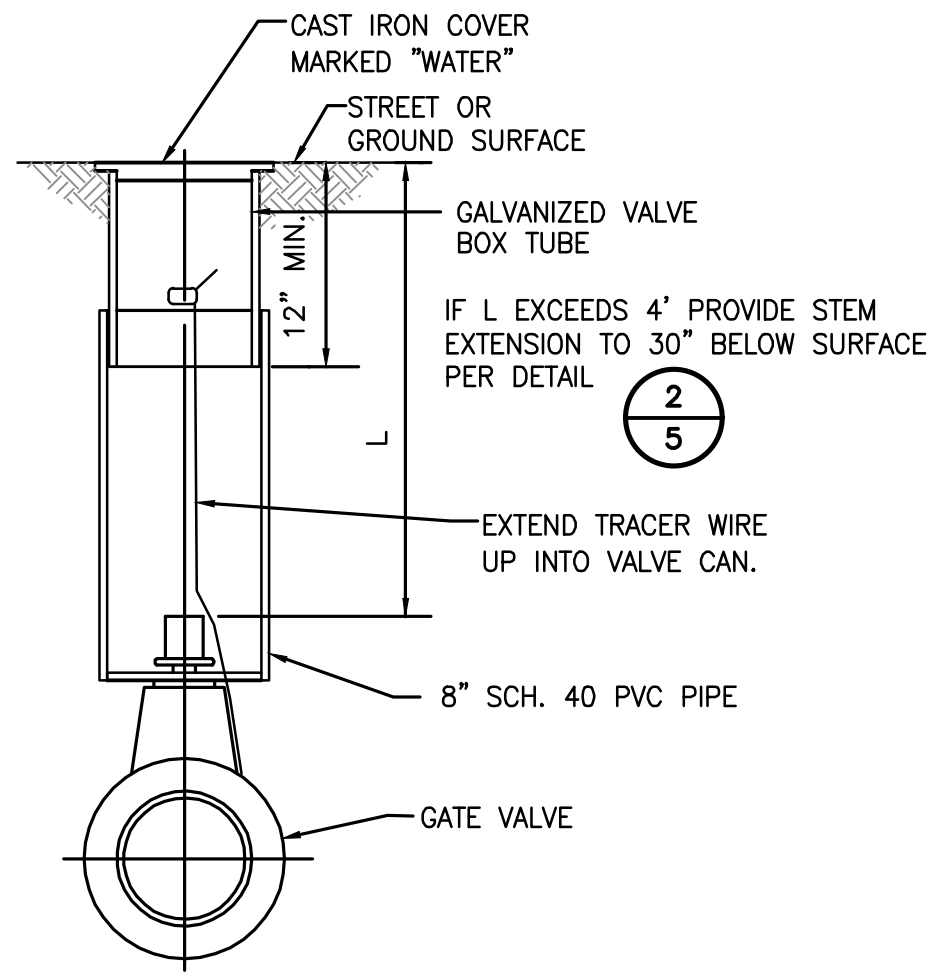
PLANS PREPARED BY:


605 E. Huntington Drive
Suite 205
Monrovia, CA 91016
Phone: 626.357.0588
Web: www.civiltec.com

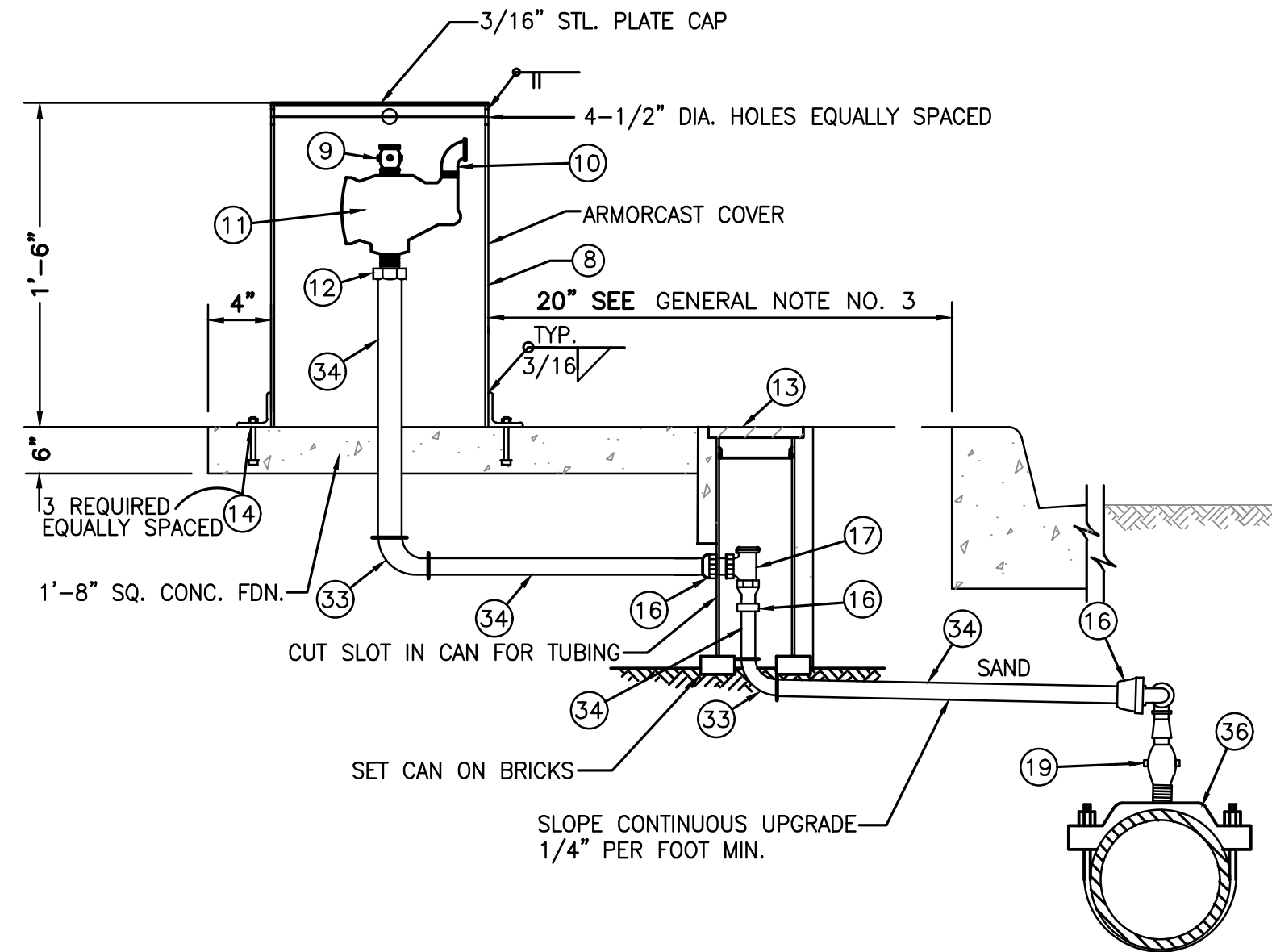
KINNELOA IRRIGATION DISTRICT
WATER DISTRIBUTION SYSTEM
E. VILLA KNOLLS DRIVE AND N. EDGECLIFF LANE
WATER MAIN REPLACEMENT PLAN

DESIGNED: CFD	CHECKED: TLK	DRAWN: CFD	SCALE: AS SHOWN
DESIGN DATE: JULY 2026	DRAWING No.: 2025163.00		SHEET 3 OF 5

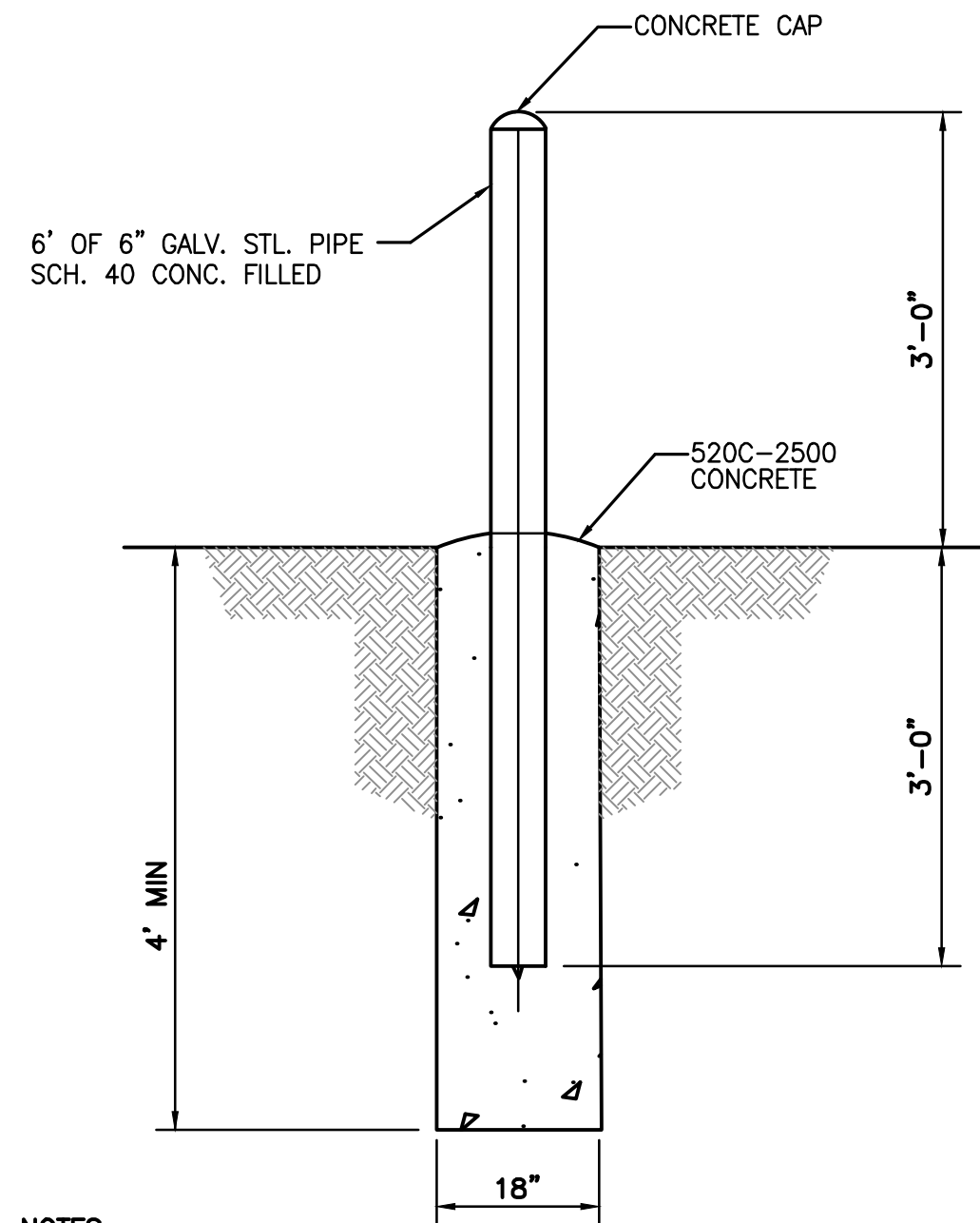
X:\2025\2025163.00-KID- REDESIGN BROWN GLEN PIPELINE.DWG(SHEETS)IMPROVEMENT PLANS\2025163.00 SHT 04 STD DWG SHI.DWG (08-26-26 12:09:17PM)



VALVE BOX AND COVER 1
N.T.S. 4

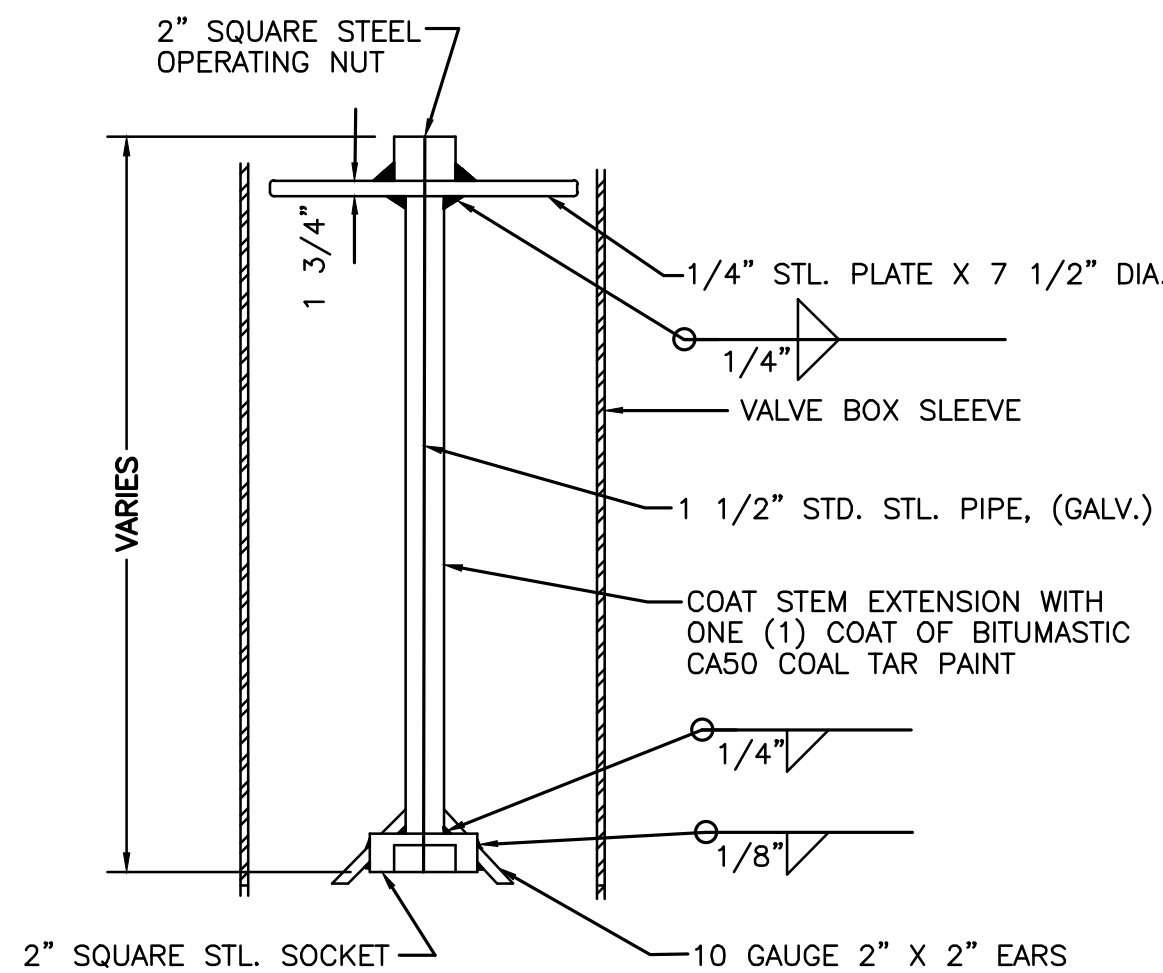


3/4" AIR RELEASE VALVE ASSEMBLY 4
N.T.S. 4

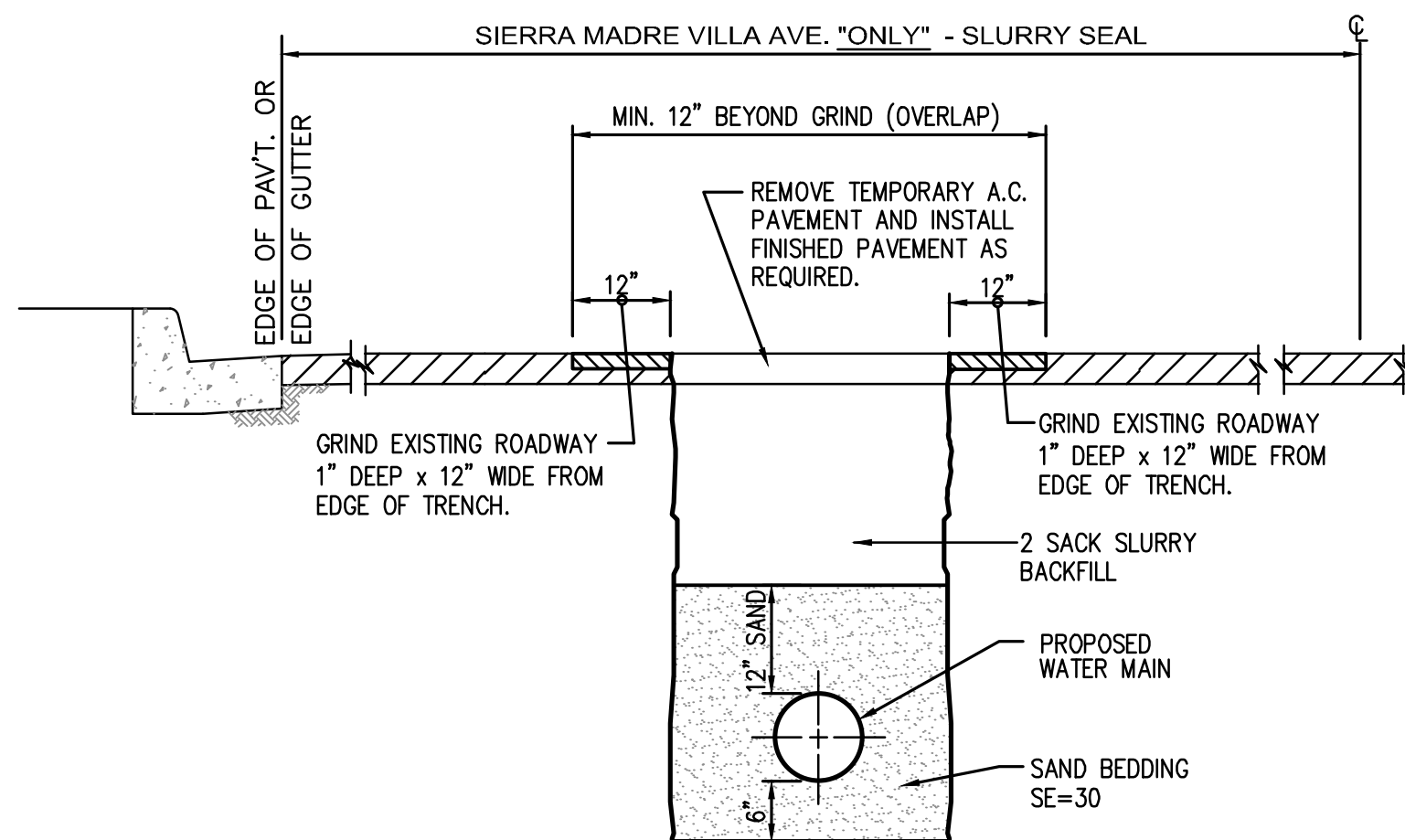


- NOTES:
- SEE PLANS FOR NUMBERS OF BARRICADE TO BE USED.
 - THE EXACT LOCATION OF BARRICADE MAY BE CHANGED BY THE INSPECTOR IN THE FIELD.
 - THE GALV. PIPE ABOVE GROUND SHALL BE PAINTED TWO FIELD COATS OF ZINC RICH PRIMER.
 - TWO FINISH COATS OF "COUNTY OF LOS ANGELES FIRE DEPT. YELLOW" SHALL BE USED FOR PRESSURE 100 LBS OR LESS. RED SHALL BE USED FOR PRESSURE 100 LBS OR MORE.

PROTECTIVE BARRICADE 7
N.T.S. 4



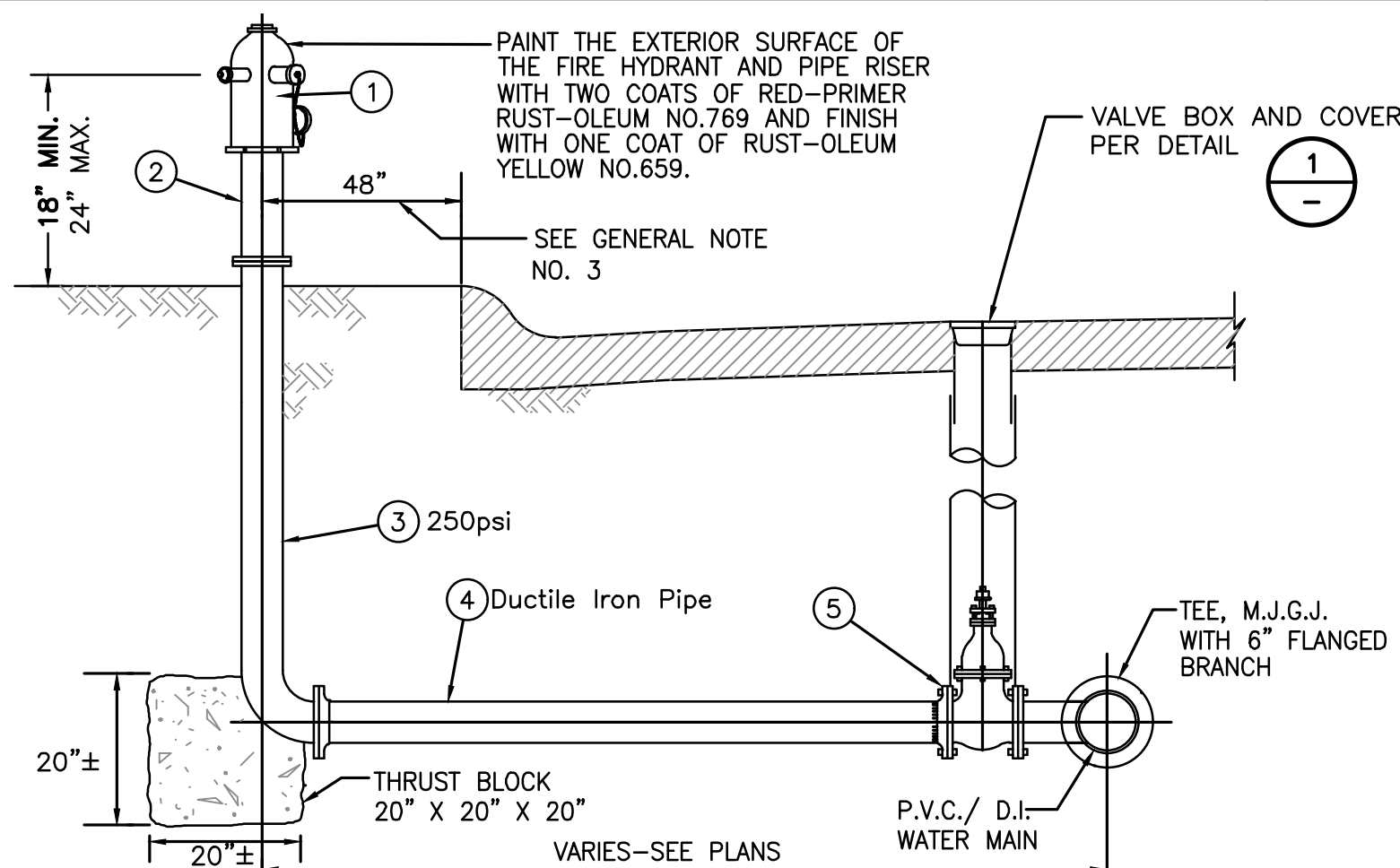
VALVE STEM EXTENSION 2
N.T.S. 4



- NOTES:
- EXPECT ROCKY SOILS. HAUL OFF ALL EXCAVATION MATERIAL*. BACKFILL MATERIAL REQUIRED WITH 2 SACK SLURRY.
 - RE-STRIPE YELLOW LINE IN SIERRA MADRE VILLA AVE. FROM VILLA KNOLLS DR. TO E. BARKITE ST.
 - RE-INSTALL YELLOW DOTS AND REFLECTIVE SQUARES. FOLLOW EXISTING PATTERN.

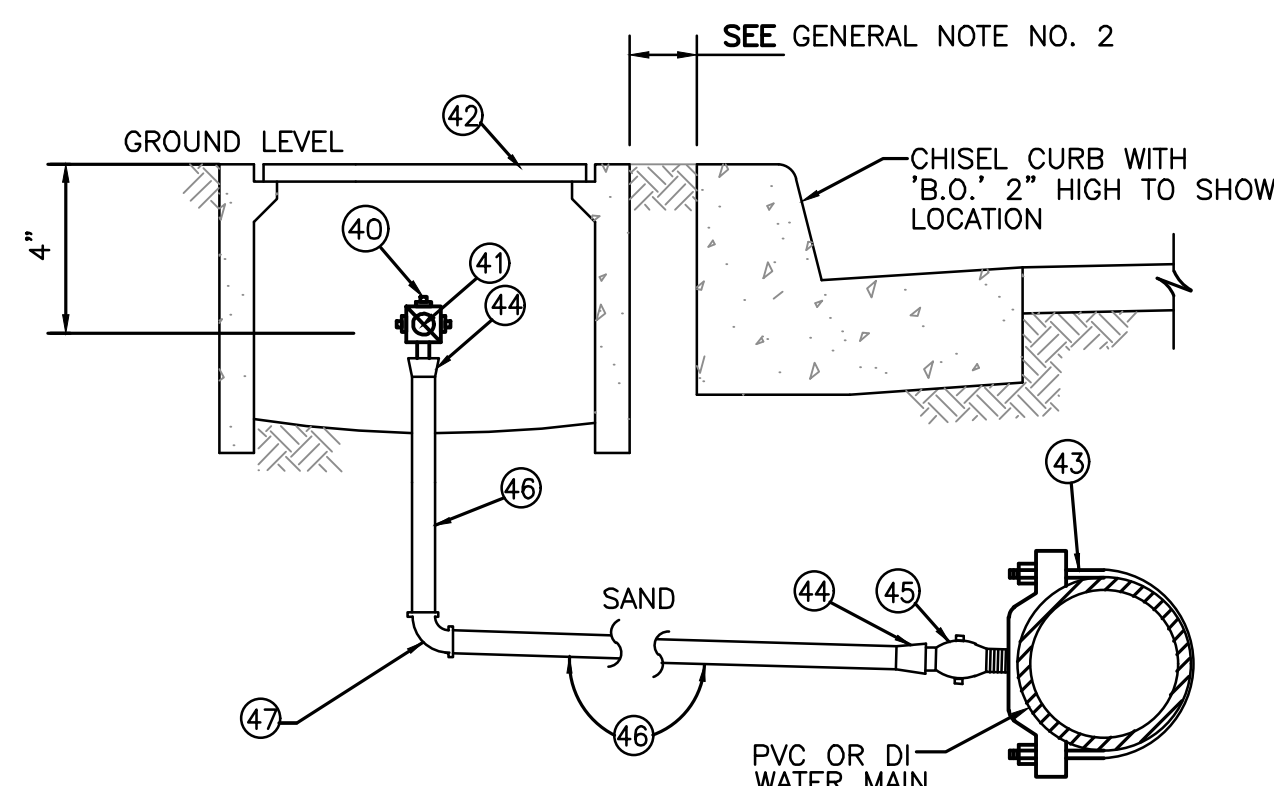
TYPICAL TRENCH DETAIL 5
N.T.S. 4

* WATER MAINS, SERVICES AND APPRENTICES.

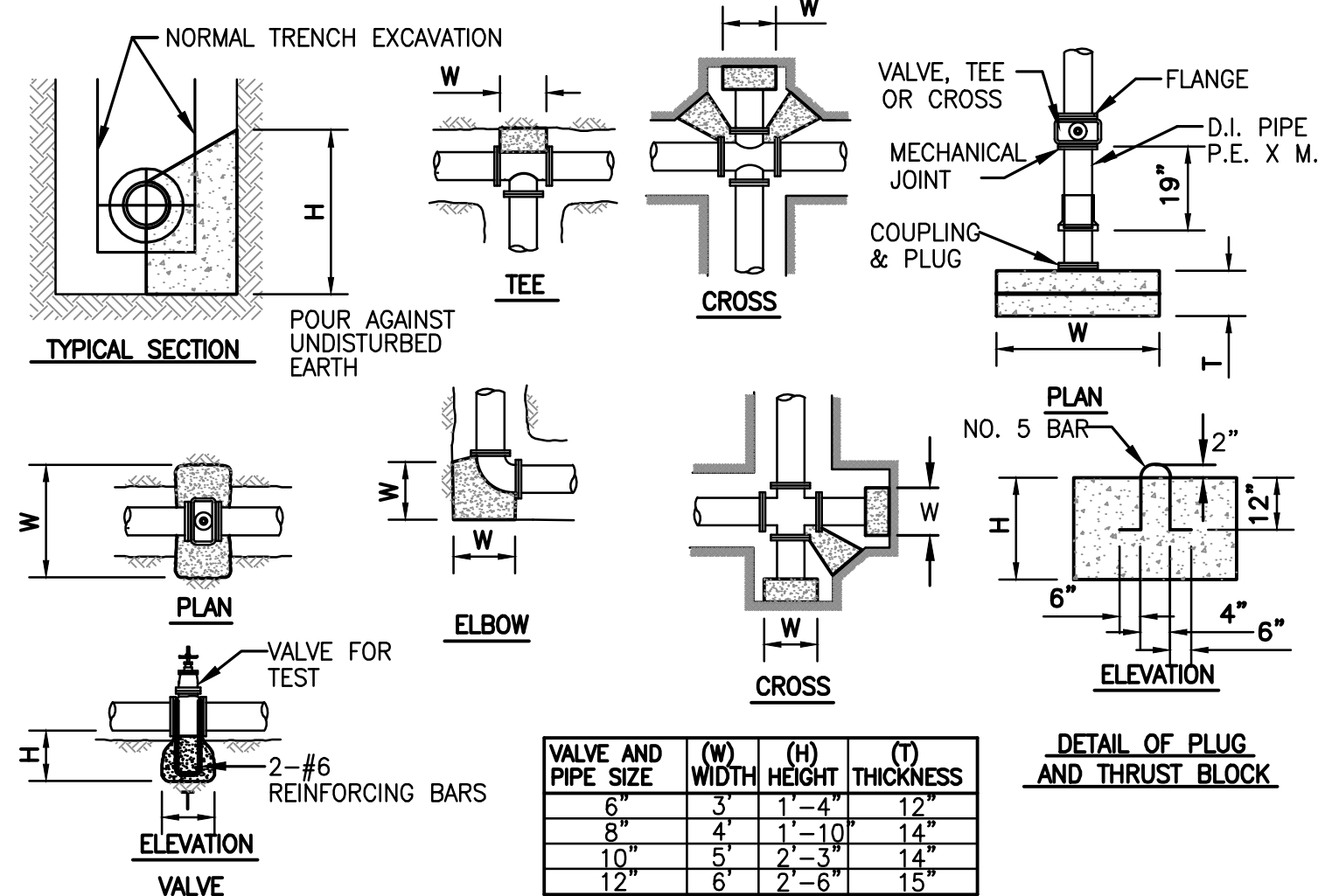


- NOTES:
- APPROVED PROTECTIVE GUARD POST BE INSTALLED TO PREVENT MECHANICAL INJURY WHEN LOCATED ON AN UNIMPROVED PRIVATE ROADWAY.
 - NO DRIVEWAY OR DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITHIN 48" OF THE CENTER OF A HYDRANT RISER.
 - FIRE HYDRANT SHALL HAVE 3 FT. CLEAR SPACE FROM ANY OBSTRUCTIONS. (360") L.A.C.F.D. REG. #8, SEC. G1E.
 - BREAK AWAY BOLTS AND APPLY SILICONE SEALER TO HOLES.

6" FIRE HYDRANT ASSEMBLY 3
N.T.S. 4



2" BLOW-OFF ASSEMBLY 6
N.T.S. 4

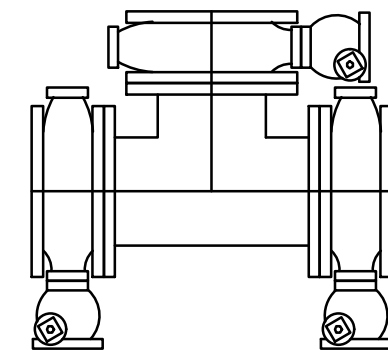


- NOTES:
- THRUST BLOCK REQUIRED FOR VALVES 6" OR LARGER.
 - THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH.
 - THE EARTH PRESSURE BEHIND THRUST BLOCKS SHALL NOT EXCEED 2,000 POUNDS PER SQUARE FOOT.
 - THE TEST PRESSURE IN THE PIPE SHALL BE 200 POUNDS PER SQUARE INCH.

CONCRETE THRUST BLOCK DETAILS 8
N.T.S. 4

BILL OF MATERIAL

NO.	QTY.	SIZE	DESCRIPTION
1		6" x 4" x 2 1/2"	FIRE HYDRANT HEAD, JAMES JONES 3701R "NO EXCEPTIONS"
2		6"	STD. GALVANIZED STEEL PIPE, 1/4" MORTAR LINED, THREADED EACH END WITH 150 LB. COMPANION FLANGE WITH BREAKAWAY BOLTS.
3		6"	CAST IRON PIPE BURY, MJGJ x FLG., CL. 150
4		6"	DUCTILE IRON PIPE, PRESSURE CLASS 350
5		6"	R.W. GATE VALVE, FLG. x MJGJ, 200 PSI, MUELLER.
6			NOT USED
7			NOT USED
8		12"	GALZ. STL. PIPE, CAPPED 12 3/4" O.D. X 3/16" WALL, POWDER COATED OR APPROVED EQUAL.
9		1/2"	FORD FB-500 CORPORATION STOP
10		1/2"	90° STREET ELBOW, BRASS, CL. 150
11		3/4"	AIR RELEASE VALVE, APCO NO. 65
12		1" X 3/4"	STRAIGHT COUPLING, FORD C84-34
13			BROOKS NO. 3 1/2 METER BOX WITH CAST IRON LID
14		2" X 2" X 1 1/2" X 1/4"	STAINLESS STEEL ANGLES AND ANCHORS, 3/8" x 4"
15			NOT USED
16		1"	JOINT COUPLING, FORD C84-44, M.I.P. X P.J.-CTS.
17		1"	ANGLE BALL VALVE, FORD BA11-344
18			NOT USED
19		1"	CORPORATION STOP, QUARTER BEND COUPLING, FORD FB 400, STREET QUARTER BEND, & L14-44 M.I.P. X P.J.-CTS.
20			NOT USED
21			NOT USED
22		2"	CURB STOP BFA13-777W, MTR. FLG F.I.P.
23			NOT USED
24			NOT USED
25			NOT USED
26			NOT USED
** 27		"SUPPLIED BY DISTRICT"	CAST METER BOX, EPOXY COATED, ARMOR CAST OR ASI WITH STL. LID #38, SUPPLIED BY KID
28			NOT USED
29		1"	BALL ANGLE METER VALVE, FORD BA11-444W F.I.P. x F.I.P.
** 30		1"-SUPPLIED BY DISTRICT"	BRONZE METER COUPLING, FORD C38-44-2.625, SUPPLIED BY KID
** 31		1"-SUPPLIED BY DISTRICT"	1" BADGER-RADIO READ REGISTER WITH BRONZE BOTTOM, SUPPLIED BY KID
** 32		1"-SUPPLIED BY DISTRICT"	CHECK VALVE, FORD HS11-444 F.I.P. X F.I.P., SUPPLIED BY KID
33		1"	ELL COUPLING, FORD L44-44
34		1"	COPPER TUBE, TYPE K
35		1"	CORPORATION STOP, FORD FB400-4
36		1"	DOUBLE STRAP SADDLE, FORD FC202 X MAIN SIZE X CC4
37		1"	COUPLING FORD C44-44
38		1"	45° ELL COUPLING, FORD LA 14-44
39		2"	45° ELL COUPLING, (BRASS)
40		2"	BRASS SCREWED CAP WITH IRON PIPE THREAD
41		2"	BALL VALVE FORD BLA18-777-TA-NL
42			ARMOR CAST OR API, CAST EPOXY, METER BOX WITH CAST IRON COVER
43		2"	DOUBLE STRAP SADDLE, FORD FC202 X MAIN SIZE X CC7
44		2"	STRAIGHT COUPLING, FORD C14-77 F.I.P. X CTS-P.J.
45		2"	CORPORATION STOP, FORD FB400-7
46		2"	COPPER PIPE, TYPE K
47		2"	90° ELL COUPLING, FORD L44-77
48			TRACER WIRE



STANDARD TEE WITH BUTTERFLY VALVES LAYOUT



REFERENCES					
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION

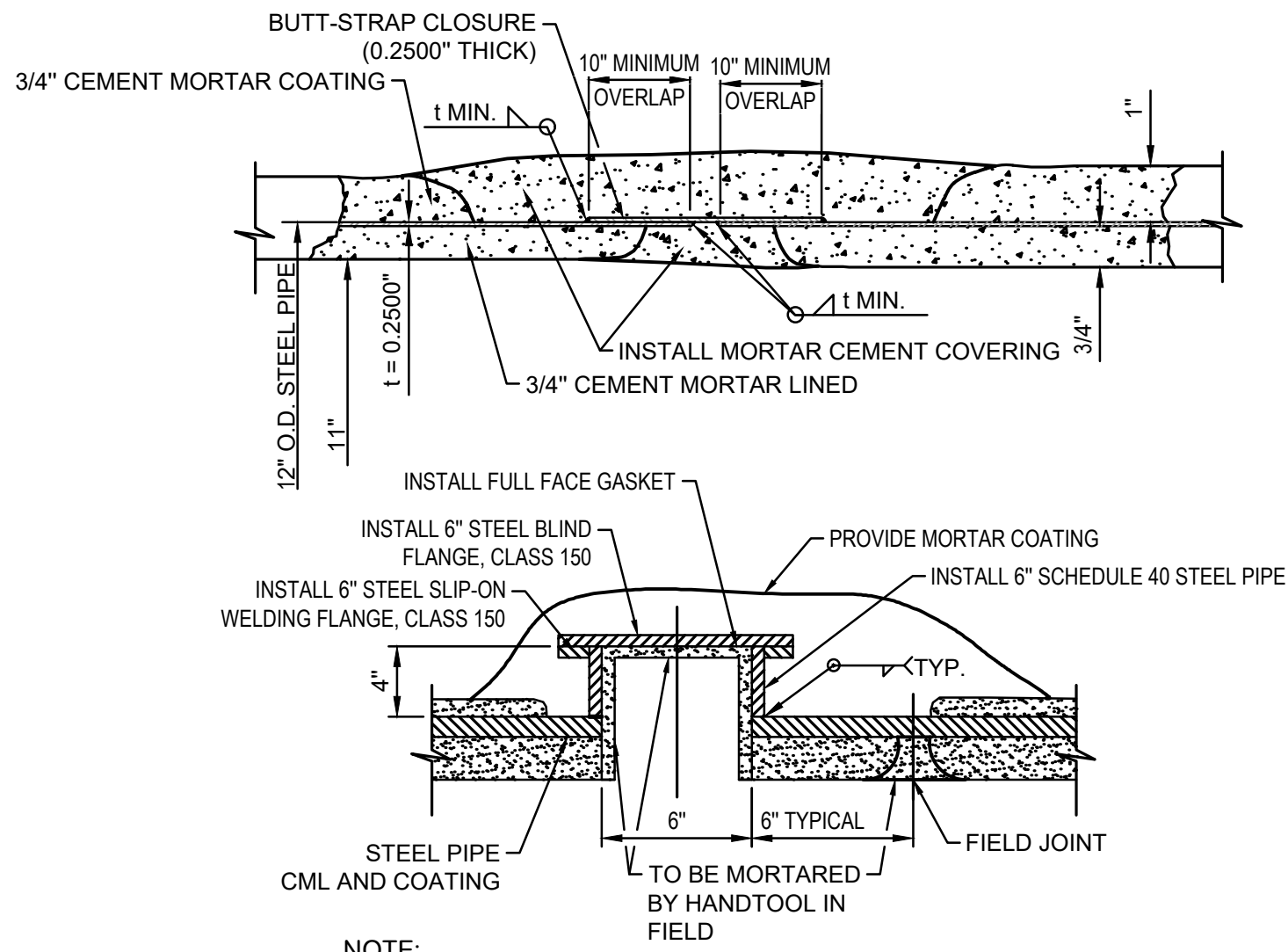


APPROVED BY: KINNELOA IRRIGATION DISTRICT
GENERAL MANAGER
DATE

PLANS PREPARED BY:
CIVILTEC engineering inc.
Civil, Water, Wastewater, Drainage, Transportation and Electrical/Controls Engineering Construction Management • Surveying California • Arizona
605 E. Huntington Drive Suite 205 Monrovia, CA 91016 Phone: 626.357.0588 Web: www.civiltec.com

KINNELOA IRRIGATION DISTRICT					
WATER DISTRIBUTION SYSTEM					
STANDARD DRAWING. No. 100					
MISCELLANEOUS DETAILS, BILL OF MATERIAL AND NOTES					
DESIGNED:	CFD	CHECKED:	TLK	DRAWN:	CFD
SCALE:	AS SHOWN				
DESIGN DATE:	JULY 2026	DRAWING No.:	2025163.00	SHEET	4 OF 5

X:\2025\2025163.00-KID-- REDESIGN BROWN GLEN PIPELINE.DWG(SHEETS)IMPROVEMENT PLANS\2025163.00 SHT 05 MISC DETAILS SH.DWG (08-26-26 12:09:57PM)



BUTT-STRAP AND HANDHOLE DETAIL

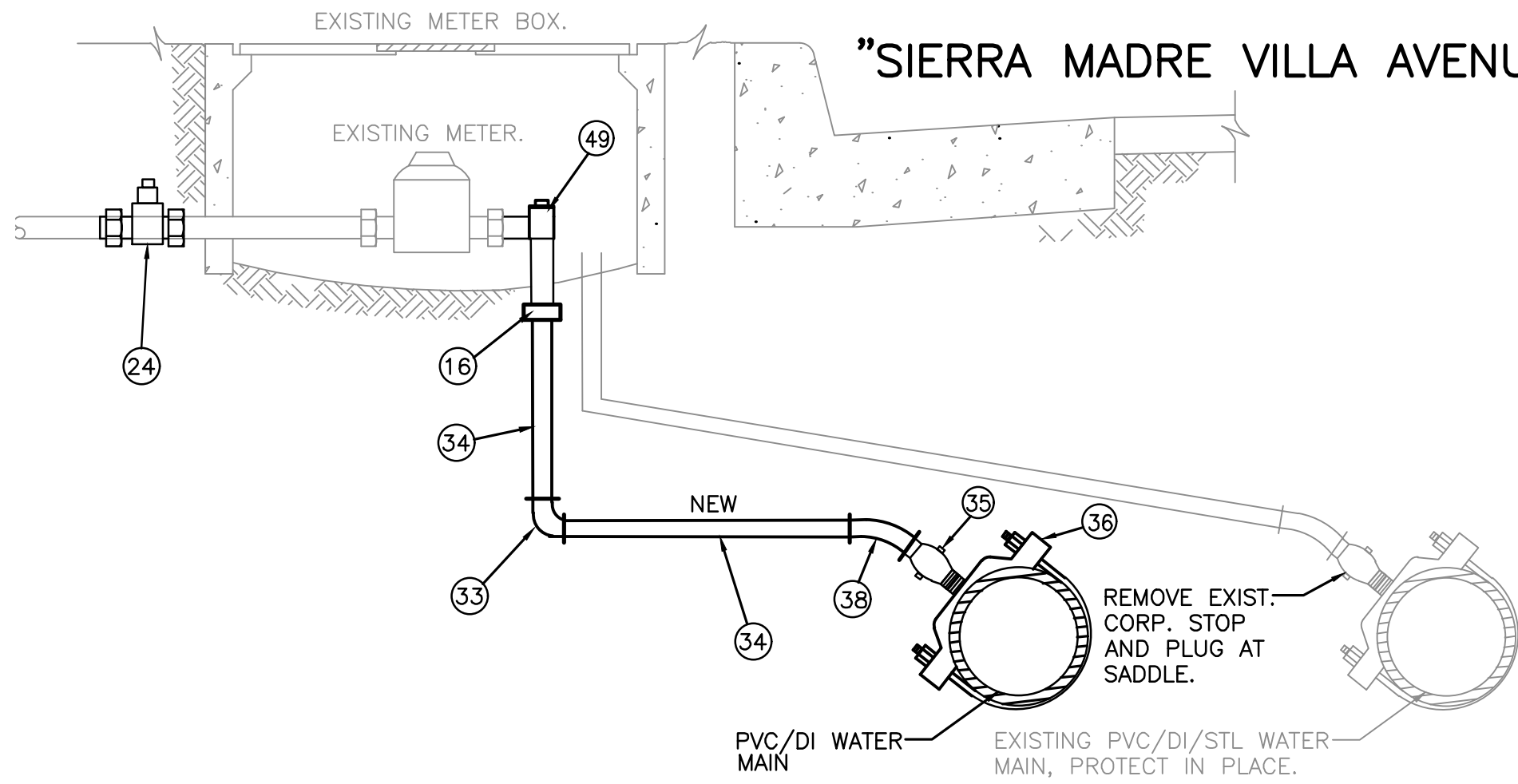
N.T.S.

9
5

NOT USED

N.T.S.

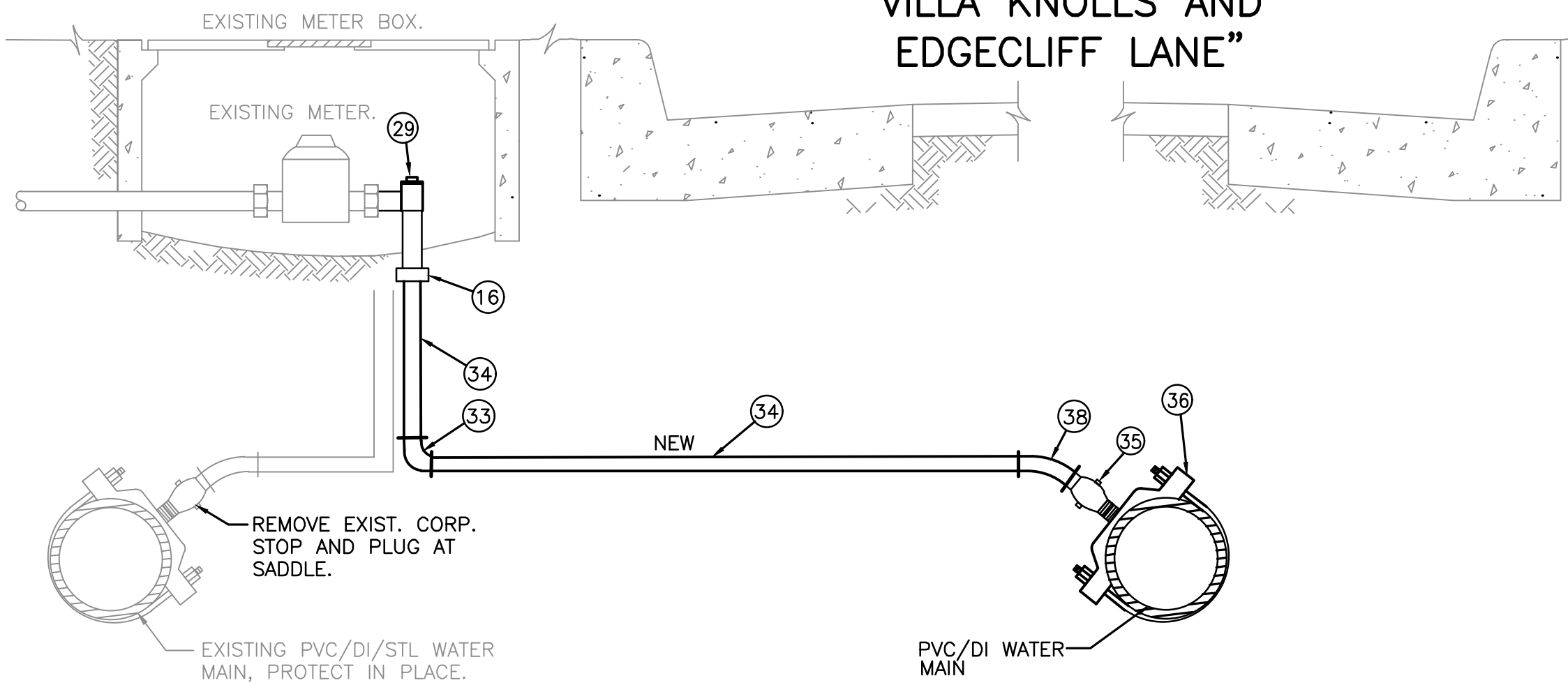
12
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1" SHORT SIDE REPLACE TO EXIST. METER

N.T.S.

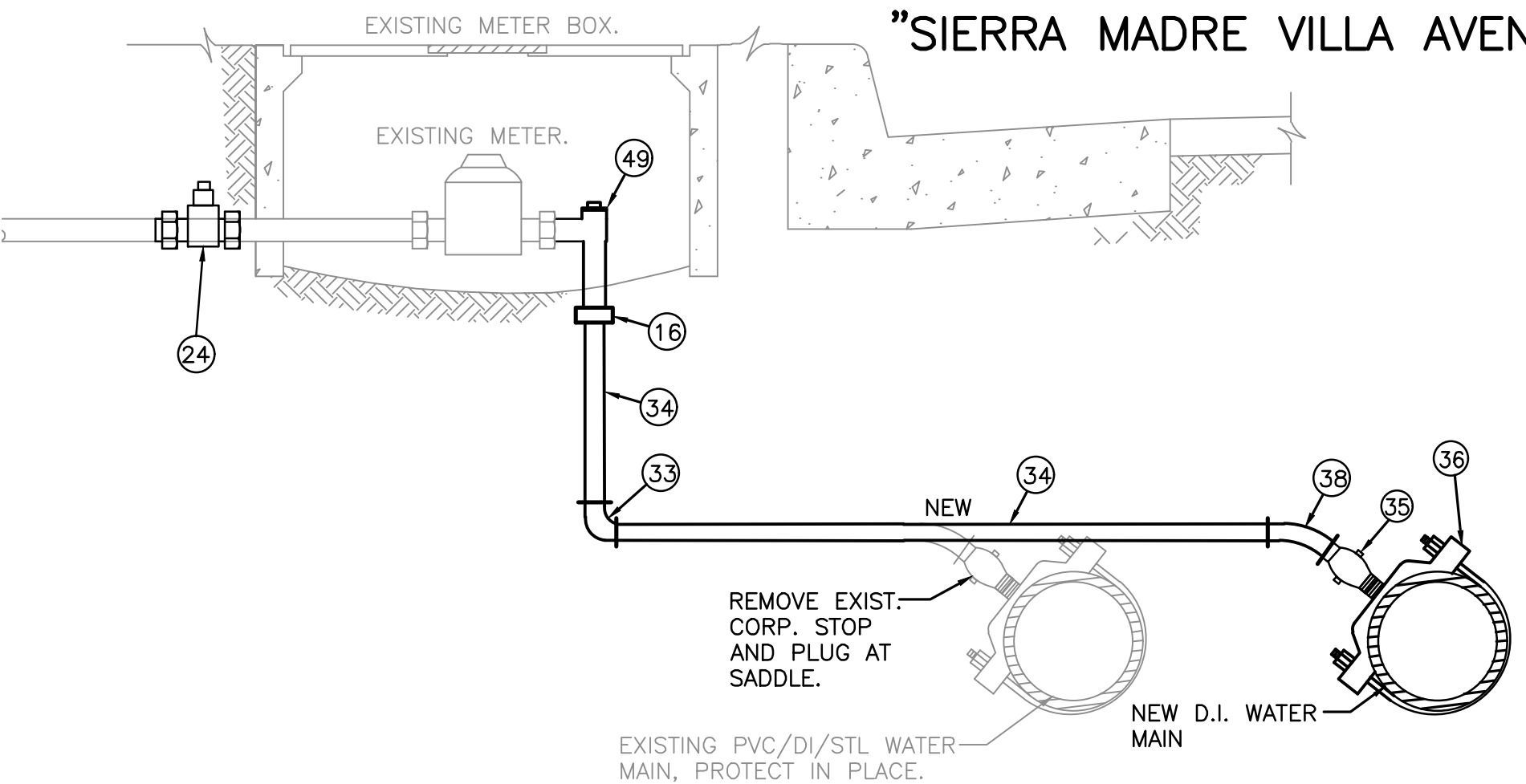
10
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1" LONG SIDE RECONNECT TO NEW MAIN

N.T.S.

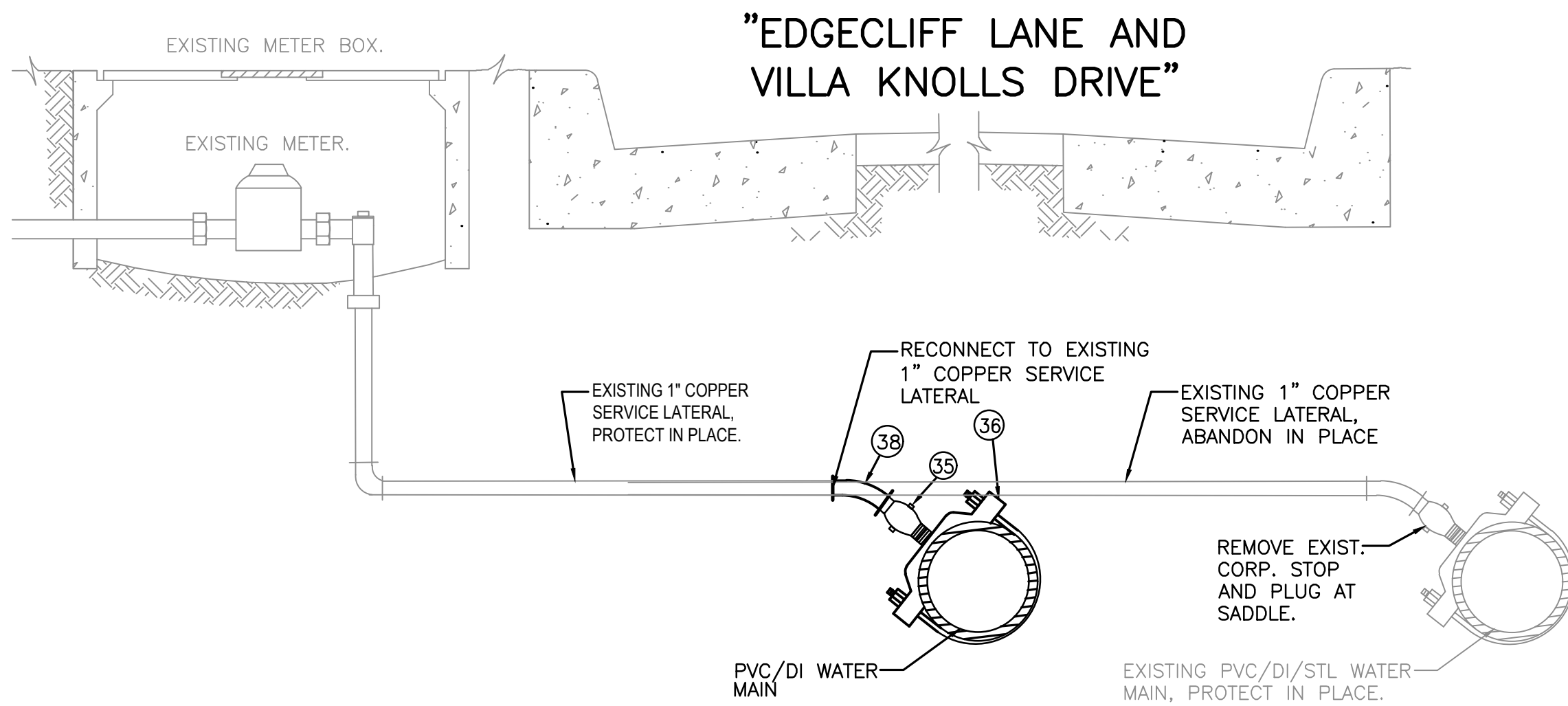
13
5



1" LONG SIDE NEW LATERAL TO EXIST. METER

N.T.S.

11
5



1" SHORT SIDE REPLACE TO EXIST. METER

N.T.S.

14
5

BILL OF MATERIAL

NO.	QTY.	SIZE	DESCRIPTION
1		6" x 4" x 2 1/2"	FIRE HYDRANT HEAD, JAMES JONES 3701R "NO EXCEPTIONS"
2		6"	STD. GALVANIZED STEEL PIPE, 1/4" MORTAR LINED, THREADED EACH END WITH 150 LB. COMPANION FLANGE WITH BREAKAWAY BOLTS.
3		6"	CAST IRON PIPE BURY, MJGJ x FLG., CL. 150
4		6"	DUCTILE IRON PIPE, PRESSURE CLASS 350
5		6"	R.W. GATE VALVE, FLG. x MJGJ, 200 PSI, MUELLER.
6			NOT USED
7			NOT USED
8		12"	GALZ. STL. PIPE, CAPPED 12 3/4" O.D. X 3/16" WALL, POWDER COATED OR APPROVED EQUAL.
9		1/2"	FORD FB-500 CORPORATION STOP
10		1/2"	90° STREET ELBOW, BRASS, CL. 150
11		3/4"	AIR RELEASE VALVE, APCO NO. 65
12		1" X 3/4"	STRAIGHT COUPLING, FORD C84-34
13			BROOKS NO. 3 1/2 METER BOX WITH CAST IRON LID
14		2" X 2" X 1 1/2" X 1/4"	STAINLESS STEEL ANGLES AND ANCHORS, 3/8" x 4"
15			NOT USED
16		1"	JOINT COUPLING, FORD C84-44, M.I.P. X P.J.-CTS.
17		1"	ANGLE BALL VALVE, FORD BA11-344
18			NOT USED
19		1"	CORPORATION STOP, QUARTER BEND COUPLING, FORD FB 400, STREET QUARTER BEND, & L14-44 M.I.P. X P.J.-CTS.
20			NOT USED
21			NOT USED
22		2"	CURB STOP BFA13-777W, MTR. FLG F.I.P.
23			NOT USED
24		1"	PRESSURE REDUCING VALVE
25			NOT USED
26			NOT USED
** 27		"SUPPLIED BY DISTRICT"	CAST METER BOX, EPOXY COATED, ARMOR CAST OR ASI WITH STL. LID #38, SUPPLIED BY KID
28		3/4"	BALL ANGLE METER VALVE, FORD BA11-333W, F.I.P. x F.I.P.
29		1"	BALL ANGLE METER VALVE, FORD BA11-444W, F.I.P. x F.I.P.
** 30		1"-"SUPPLIED BY DISTRICT"	BRONZE METER COUPLING, FORD C38-44-2.625, SUPPLIED BY KID
** 31		1"-"SUPPLIED BY DISTRICT"	1" BADGER-RADIO READ REGISTER WITH BRONZE BOTTOM, SUPPLIED BY KID
** 32		1"-"SUPPLIED BY DISTRICT"	CHECK VALVE, FORD HS11-444 F.I.P. X F.I.P., SUPPLIED BY KID
33		1"	ELL COUPLING, FORD L44-44
34		1"	COPPER TUBE, TYPE K
35		1"	CORPORATION STOP, FORD FB400-4
36		1"	DOUBLE STRAP SADDLE, FORD FC202 X MAIN SIZE X CC4
37		1"	COUPLING FORD C44-44
38		1"	45° ELL COUPLING, FORD LA 14-44
39		2"	45° ELL COUPLING, (BRASS)
40		2"	BRASS SCREWED CAP WITH IRON PIPE THREAD
41		2"	BALL VALVE FORD BLA18-777-TA-NL
42			ARMOR CAST OR API, CAST EPOXY, METER BOX WITH CAST IRON COVER
43		2"	DOUBLE STRAP SADDLE, FORD FC202 X MAIN SIZE X CC7
44		2"	STRAIGHT COUPLING, FORD C14-77 F.I.P. X CTS-P.J.
45		2"	CORPORATION STOP, FORD FB400-7
46		2"	COPPER PIPE, TYPE K
47		2"	90° ELL COUPLING, FORD L44-77
48			TRACER WIRE
49		1" x 3/4"	JOINT COUPLING, FORD C84-44, M.I.P. X P.J.-CTS.

GENERAL NOTES

- FORD GRIP IS NOT TO BE USED.



REFERENCES					
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION



APPROVED BY: KINNELOA IRRIGATION DISTRICT

GENERAL MANAGER

DATE

PLANS PREPARED BY:

CIVILTEC
engineering inc.

Civil, Water, Wastewater, Drainage,
Transportation and
Electrical Controls Engineering
Construction Management • Surveying
California • Arizona

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KINNELOA IRRIGATION DISTRICT

WATER DISTRIBUTION SYSTEM

STANDARD DRAWING. No. 100
MISCELLANEOUS DETAILS, BILL OF MATERIAL AND NOTES

DESIGNED:	CFD	CHECKED:	TLK	DRAWN:	CFD	SCALE:	AS SHOWN
DESIGN DATE:	JULY 2026	DRAWING No.:	2025163.00	SHEET	5	OF	5

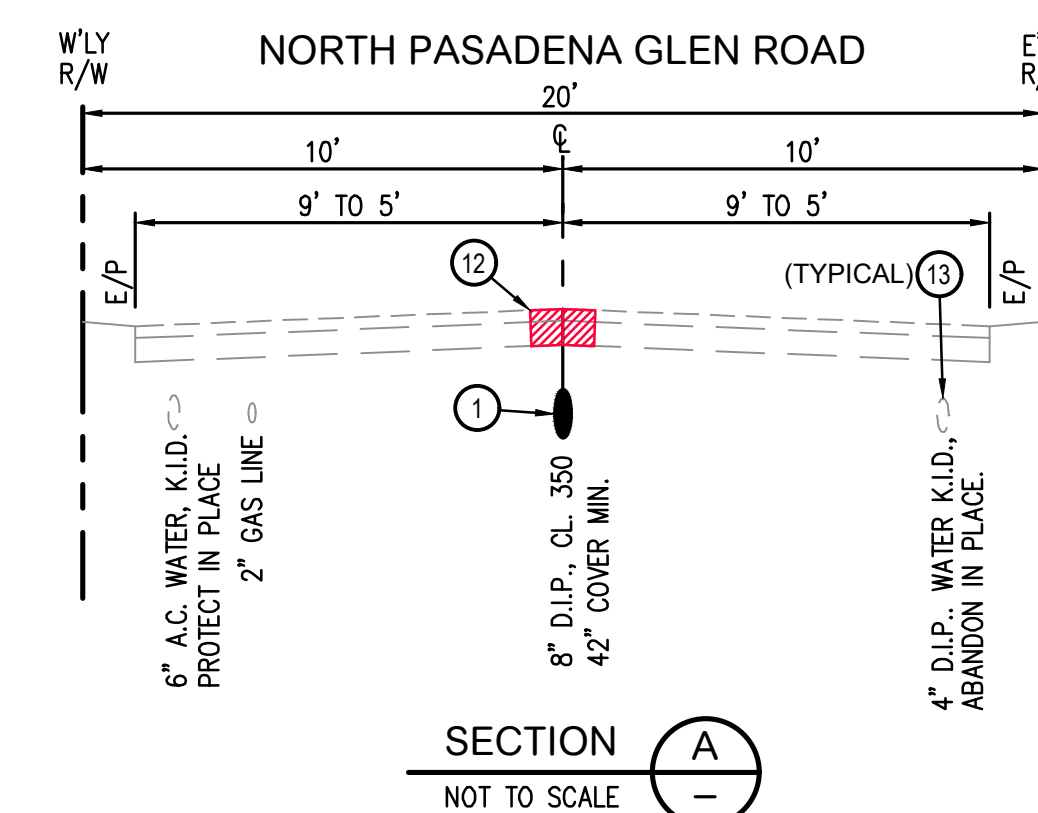
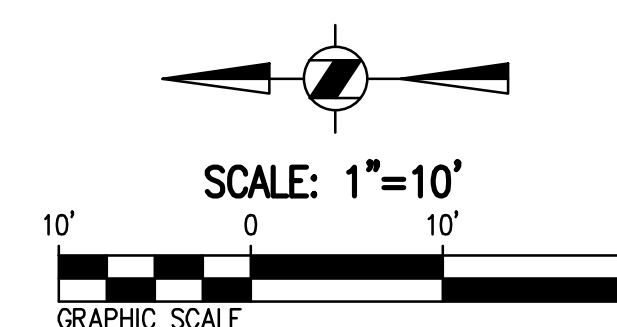
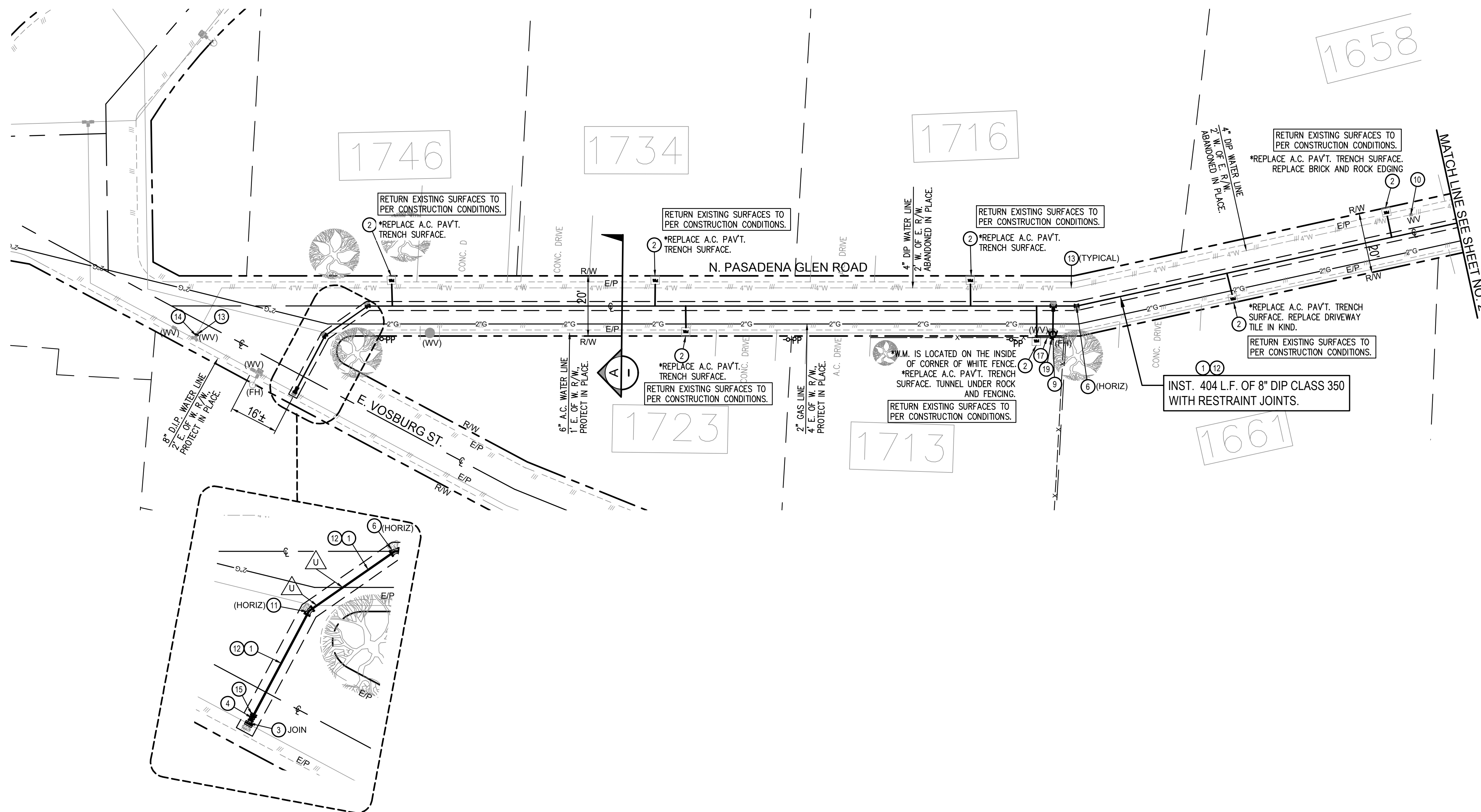
- 1 INSTALL 8" DUCTILE IRON PIPE, PRESSURE CLASS 350 WITH FIELD LOC GASKETS.
- 2 CONNECT 1" SERVICE LATERAL PER DETAIL 4 ON SHEET 3.
- 3 INSTALL 8" TAPPING SLEEVE PER DETAIL 3 ON SHEET 3.
- 4 INSTALL 8" TAPPING GATE VALVE, FLO&WLG W/ VALVE BOX AND COVER PER DETAILS 1 AND 3 ON SHEET 3..
- 5 INSTALL 8"-22.5" D.I. BEND, M&MJM WITH THRUST BLOCK PER DETAIL 8 ON SHEET 3.
- 6 INSTALL 8"-11.25" D.I. BEND, M&MJM WITH THRUST BLOCK PER DETAIL 8 ON SHEET 3.
- 7 INSTALL 8" GATE VALVE, M&FLG W/ VALVE BOX AND COVER PER DETAILS 1 AND 3 ON SHEET 3..
- 9 INSTALL 6" FIRE HYDRANT ASSEMBLY PER DETAIL 9 ON SHEET 3.
- 12 SAWCUT, REMOVE AND REPLACE AC/CONCRETE PAVEMENT IN KIND PER DETAIL NO. 5 ON SHEET 3.
- 13 CUT, PLUG AND ABANDON EXISTING 4" WATER LINE IN PLACE.
- 14 REMOVE EX. VALVE, VALVE BOX & COVER. INSTALL BLIND FLANGE ON TEE.
- 15 INSTALL 8" FLANGE COUPLING ADAPTER..
- 17 FURNISH AND INSTALL BARRICADE POSTS PER DETAIL 7 ON SHEET 3.
- 19 REMOVE EXISTING F.H. HEAD, BURY AND VALVE, INSTALL BLIND FLANGE ON EXISTING TEE.

THE CONTRACTOR SHALL POTHOLE EACH PIPE CONNECTION LOCATION, VALVE REMOVAL LOCATION, PIPE ABANDONMENT LOCATION, AND VALVE REPLACEMENT LOCATION, FIELD VERIFY CONDITION AND TYPE OF VALVE END CONNECTION.

1. ROPE PIPE JOINTS TO MAINTAIN HORIZONTAL ALIGNMENT 2 1/2" MAX. DEFLECTION PER PIPE JOINT.
2. CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF EXISTING WATER MAIN AT ALL CONNECTION POINTS.
3. WHEN INSTALLING NEW WATER SERVICE LINE, THE CONTRACTOR WILL NEED TO RELOCATE/REMOVE INTERFERING PORTIONS OF EXISTING SERVICE LATERAL TO COMPLETE CONNECTION TO EXISTING WATER MAIN.
4. CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF EXISTING WATER MAIN AT ALL CONNECTION POINTS.

1. INSTALL NEW 8" DIP VOSBURG WATER MAIN, PRESSURE TEST, FLUSH AND DISINFECT.
2. JOIN EXISTING VOSBURG WATER MAIN.
3. ABANDON 4" FH LATERAL AND INSTALL NEW 4" FLUSH OUT LATERAL AND WHARF HEAD.
4. CONNECT EXISTING POTABLE WATER SERVICES TO NEW MAIN, STARTING AT NORTH END OF PROJECT.
5. AFTER ALL POTABLE SERVICES ARE CONNECTED TO NEW WATER MAIN, ABANDON EXISTING WATER MAINS WHERE SHOWN.

ALL TIE-INS WHERE WATER SERVICE IS INTERRUPTED SHALL REQUIRE ADVANCE NOTIFICATION OF 7 DAYS TO DISTRICT CUSTOMERS AND L.A. COUNTY FIRE DEPARTMENT STATION #66 AS WELL AS BATTALION #4 HEAD QUARTERS. NO TIE-INS SHALL BE ALLOWED ON FRIDAY.



UNDERGROUND
SERVICE ALERT

AT LEAST TWO
WORKING DAYS
R TO EXCAVATING

REFERENCES							
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION	APP.	DATE



APPROVED BY: KINNELOA IRRIGATION DISTRICT

GENERAL MANAGER

DATE



605 E. Huntington Drive
Suite 205
Monrovia, CA 91016
Phone: 626.357.0588
Web: www.civiltec.com

KINNELOA IRRIGATION DISTRICT			
WATER DISTRIBUTION SYSTEM			
NORTH PASADENA GLEN ROAD SERVICE LINE AND DOMESTIC SERVICES REPLACEMENT PLAN			
DESIGNED: CFD	CHECKED: TLK	DRAWN: CFD	SCALE: AS SHOWN
DESIGN DATE: AUGUST 2026	DRAWING No.: 2026123.00		SHEET 1 OF 3

NOTES:

1. ROPE PIPE JOINTS TO MAINTAIN HORIZONTAL ALIGNMENT 2 1/2" MAX. PER PIPE JOINT.
2. CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF EXISTING WATER MAIN AT ALL CONNECTION POINTS.
3. WHEN INSTALLING NEW WATER SERVICE LINE, THE CONTRACTOR WILL NEED TO RELOCATE/REMOVE INTERFERING PORTIONS OF EXISTING SERVICE LATERAL TO COMPLETE CONNECTION TO EXISTING METER.
4. CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF EXISTING WATER MAIN AT ALL CONNECTION POINTS.

CONSTRUCTION SEQUENCE:

1. INSTALL NEW 8" DIP VOSBURG WATER MAIN, PRESSURE TEST, FLUSH AND DISINFECT.
2. JOIN EXISTING VOSBURG WATER MAIN.
3. ABANDON 4" FH LATERAL AND INSTALL NEW 4" FLUSH OUT LATERAL AND WHARF HEAD.
4. CONNECT EXISTING POTABLE WATER SERVICES TO NEW MAIN, STARTING AT NORTH END OF PROJECT.
5. AFTER ALL POTABLE SERVICES ARE CONNECTED TO NEW WATER MAIN, ABANDON EXISTING WATER MAINS WHERE SHOWN.

CAUTION:

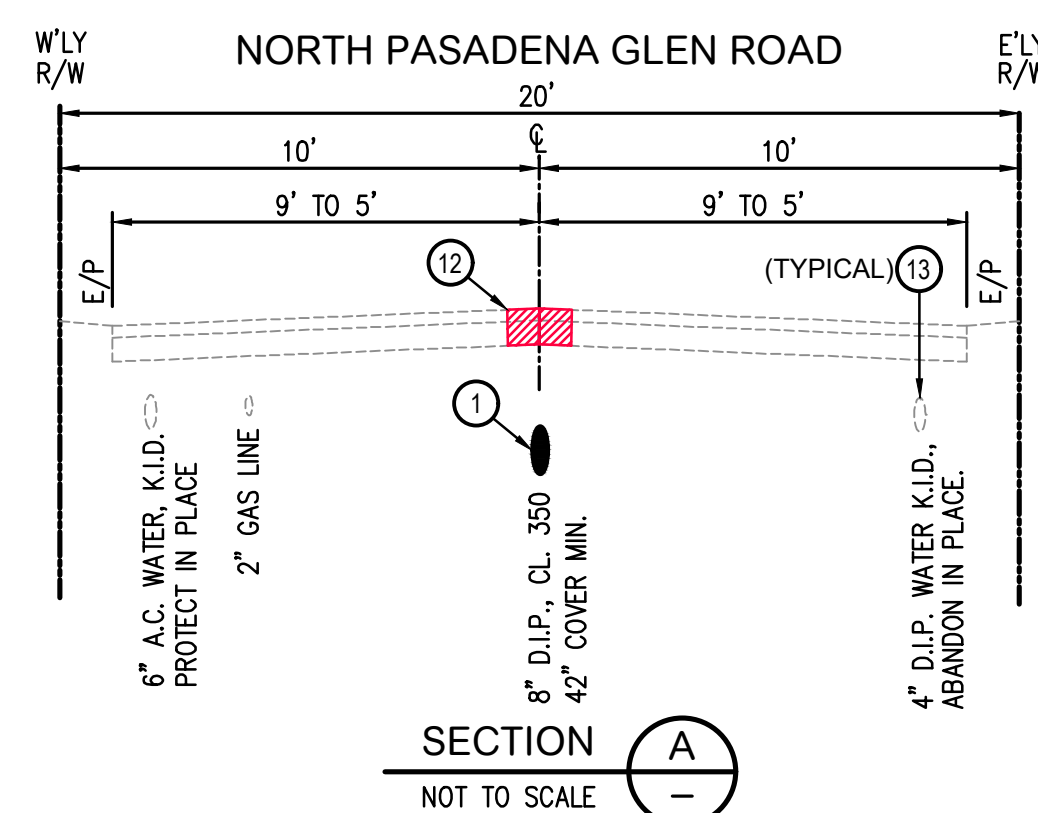
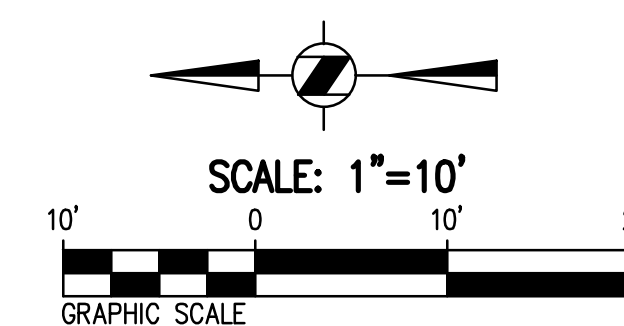
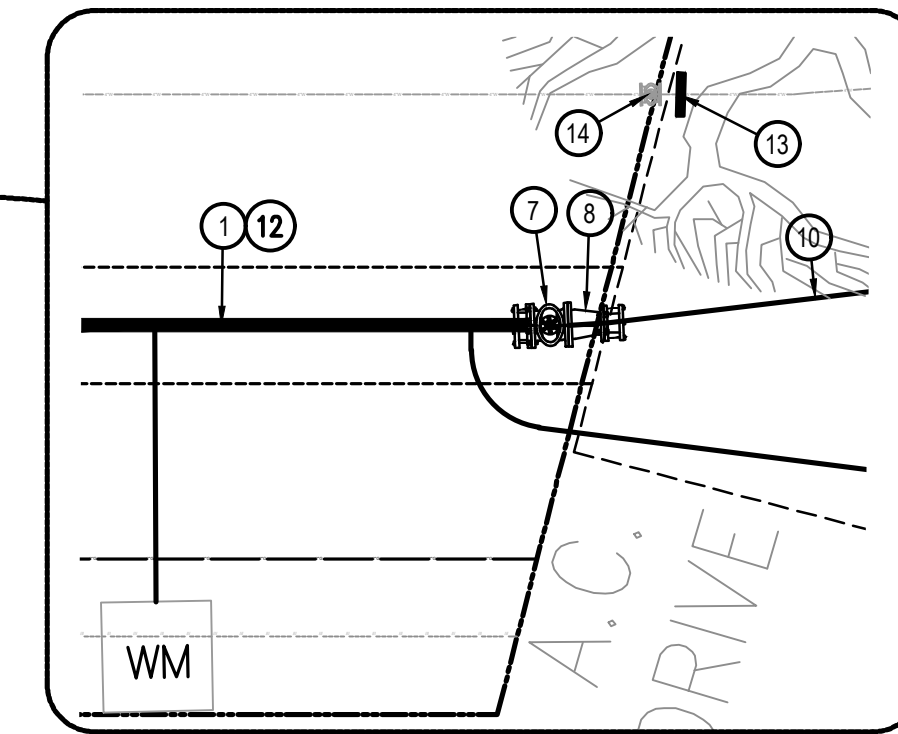
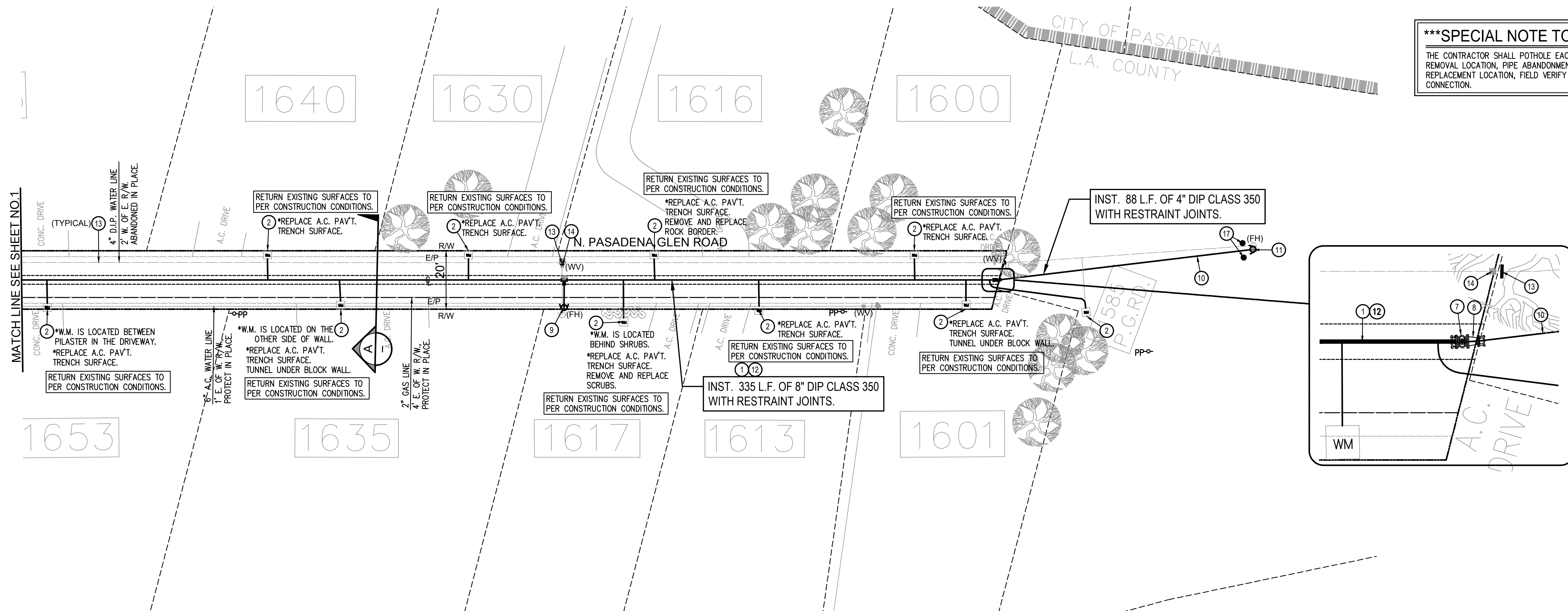
ALL TIE-INS WHERE WATER SERVICE IS INTERRUPTED SHALL REQUIRE ADVANCE NOTIFICATION OF 7 DAYS TO DISTRICT CUSTOMERS AND L.A. COUNTY FIRE DEPARTMENT STATION #66 AS WELL AS BATTALION #4 HEAD QUARTERS. NO TIE-INS SHALL BE ALLOWED ON FRIDAY.

CONSTRUCTION NOTES, (THIS SHEET ONLY)

1. INSTALL 8" DUCTILE IRON PIPE, PRESSURE CLASS 350 WITH FIELD LOC GASKETS.
2. RECONNECT 1" SERVICE LATERAL (LONG) PER DETAIL 4 ON SHEET 3.
7. INSTALL 8" GATE VALVE, M&FLG W/ VALVE BOX AND COVER PER DETAILS 1 AND 3 ON SHEET 3.
8. INSTALL 8"x4" D.I. REDUCER, FLG&MJ.
9. INSTALL 6" FIRE HYDRANT ASSEMBLY PER DETAIL 9 ON SHEET 3.
10. INSTALL 4" DUCTILE IRON PIPE, PRESSURE CLASS 350 WITH FIELD LOC GASKETS.
11. INSTALL 4" WHARF HEAD ASSEMBLY PER DETAIL 6 ON SHEET 3.
12. SAWCUT, REMOVE AND REPLACE AC/CONCRETE PAVEMENT IN KIND PER DETAIL NO. 5 ON SHEET 3.
13. CUT, PLUG AND ABANDON EXISTING WATER LINE IN PLACE.
14. REMOVE EX. VALVE, VALVE BOX & COVER. INSTALL BLIND FLANGE OR PLUG ON TEE AND CUT, PLUG AND ABANDON REMAINING EXISTING WATER MAIN IN PLACE.
17. FURNISH AND INSTALL BARRICADE POSTS PER DETAIL 7 ON SHEET 3.
19. REMOVE EXISTING F.H. HEAD, BURY AND VALVE, INSTALL BLIND FLANGE ON EXISTING TEE.

SPECIAL NOTE TO CONTRACTOR

THE CONTRACTOR SHALL POTHOLE EACH PIPE CONNECTION LOCATION, VALVE REMOVAL LOCATION, PIPE ABANDONMENT LOCATION, AND VALVE REPLACEMENT LOCATION, FIELD VERIFY CONDITION AND TYPE OF VALVE END CONNECTION.



UNDERGROUND SERVICE ALERT
AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

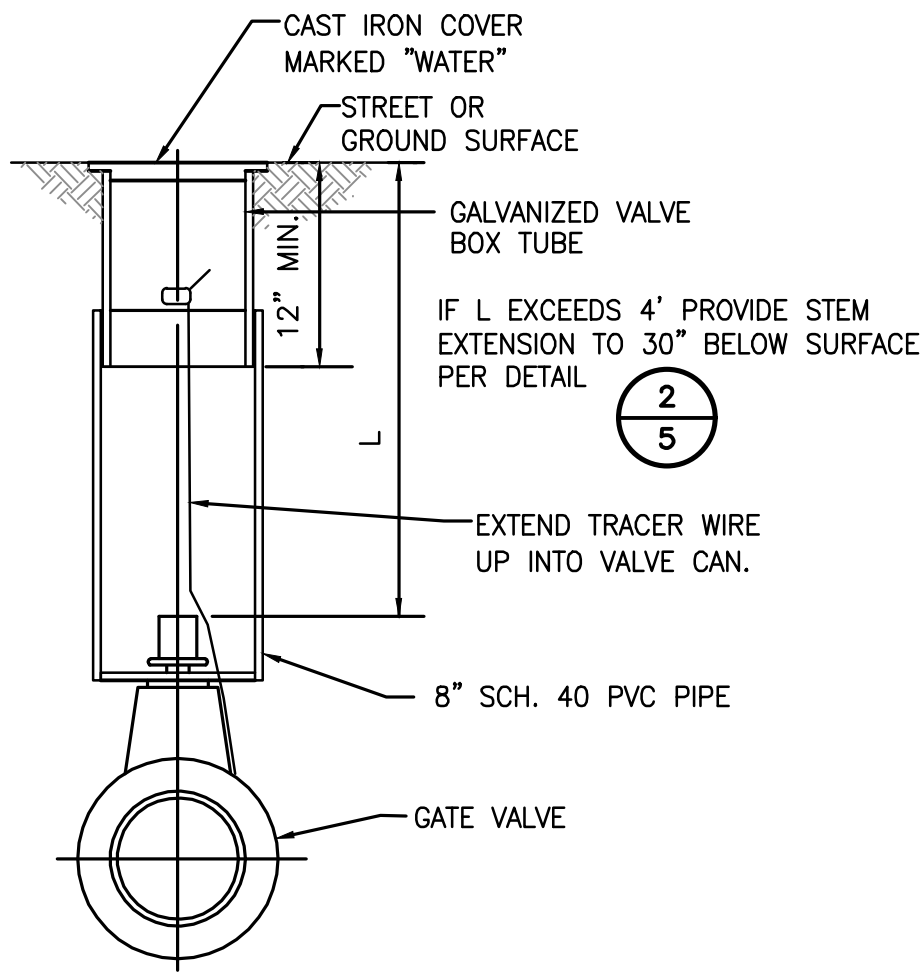
REFERENCES					
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION



APPROVED BY: KINNELOA IRRIGATION DISTRICT
GENERAL MANAGER
DATE

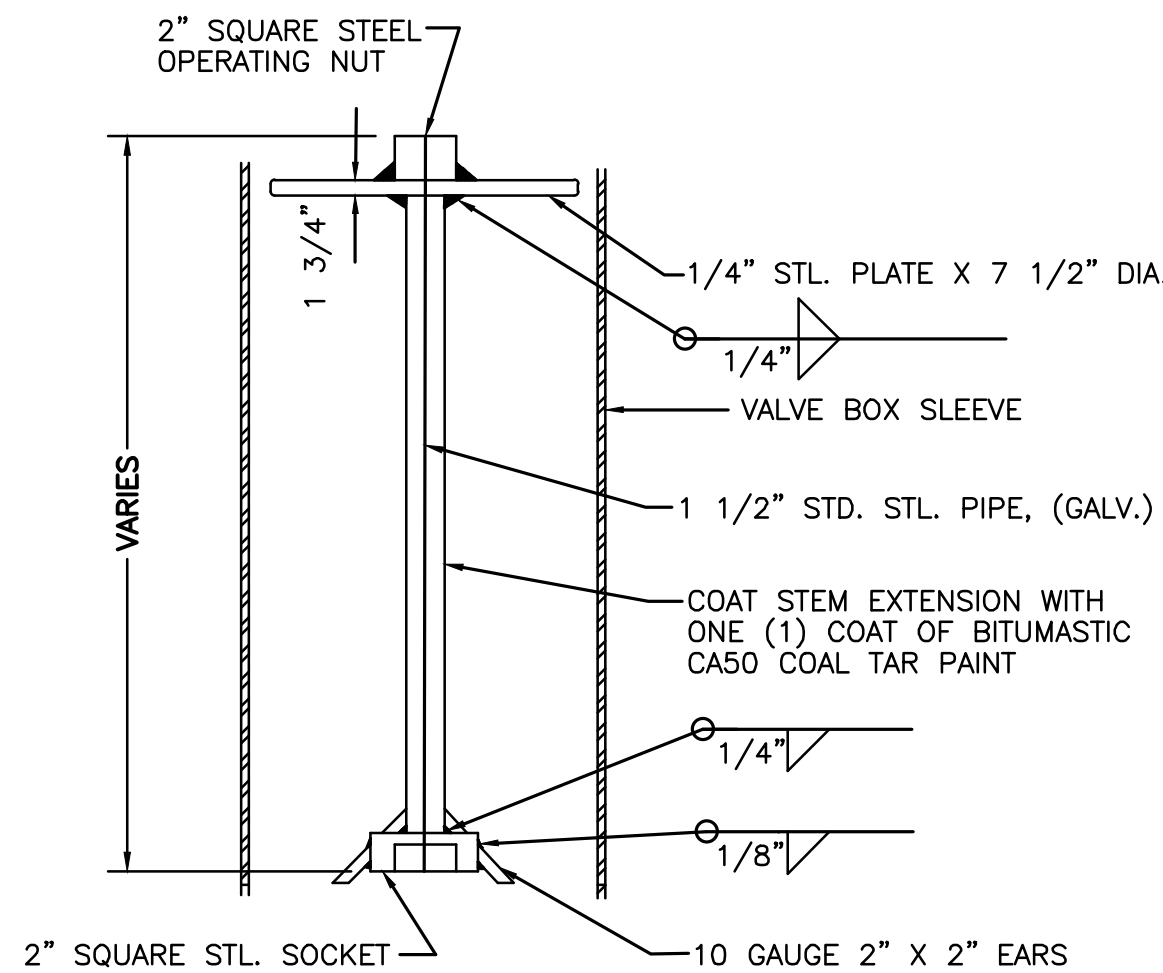
PLANS PREPARED BY:
CIVILTEC engineering inc.
605 E. Huntington Drive
Suite 205
Monrovia, CA 91016
Phone: 626.357.0588
Web: www.civiltec.com

KINNELOA IRRIGATION DISTRICT					
WATER DISTRIBUTION SYSTEM					
NORTH PASADENA GLEN ROAD SERVICE LINE AND DOMESTIC SERVICES REPLACEMENT PLAN					
DESIGNED: CFD	CHECKED: TLK	DRAWN: CFD	SCALE: AS SHOWN		
DESIGN DATE: AUGUST 2026	DRAWING No.: 2026123.00	SHEET 2	OF 3		



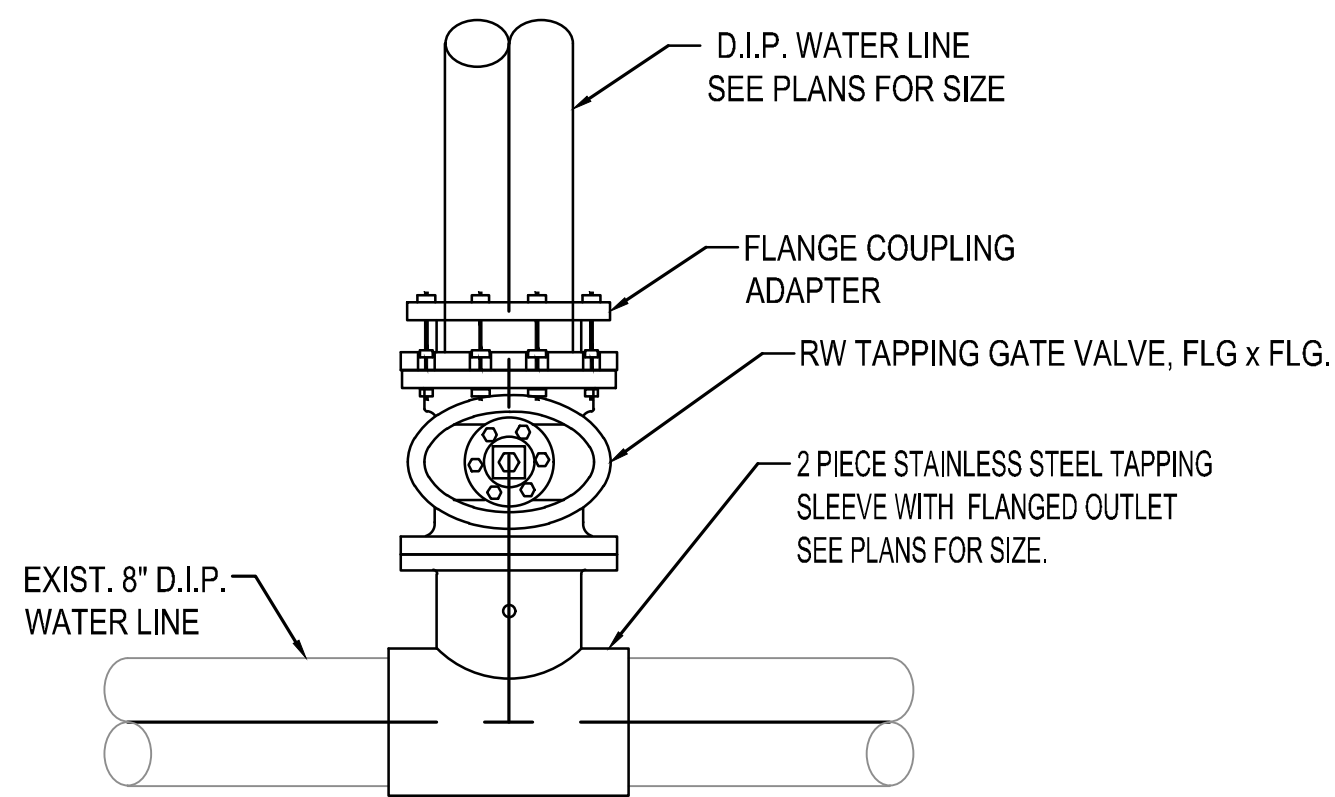
VALVE BOX AND COVER
N.T.S.

1
3



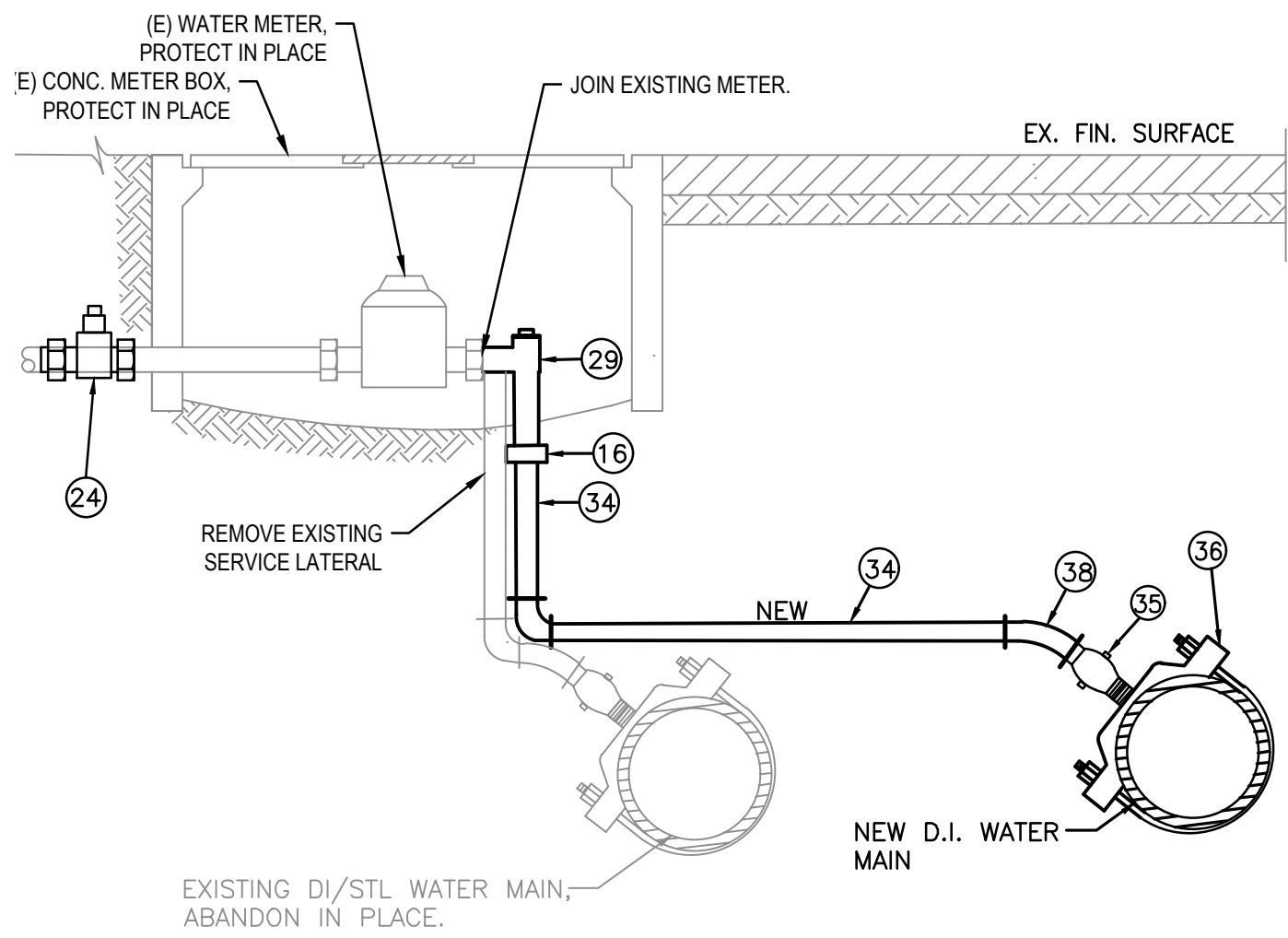
VALVE STEM EXTENSION
N.T.S.

2
3



TAPPING SLEEVE & TAPPING VALVE DETAIL
N.T.S.

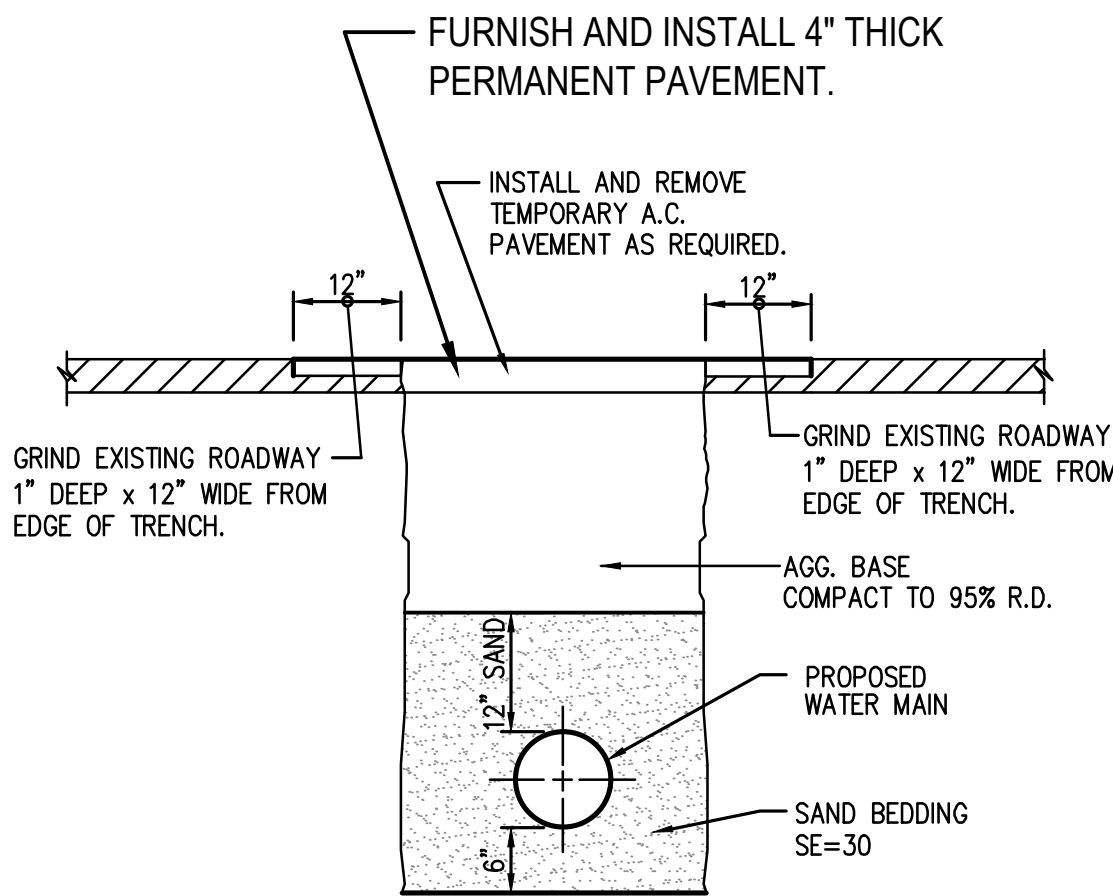
3
3



- GENERAL NOTES:
1. REMOVE EXISTING SERVICE LINE AND CURB STOP. FURNISH AND INSTALL NEW SERVICE LINE AND FITTINGS PER THIS DETAIL.
 2. WHEN INSTALLING NEW WATER SERVICE LINE, THE CONTRACTOR WILL NEED TO RELOCATE/REMOVE INTERFERING PORTIONS OF EXISTING SERVICE LATERAL TO COMPLETE CONNECTION TO EXISTING METER.

RECONNECT EXISTING SERVICE
N.T.S.

4
3

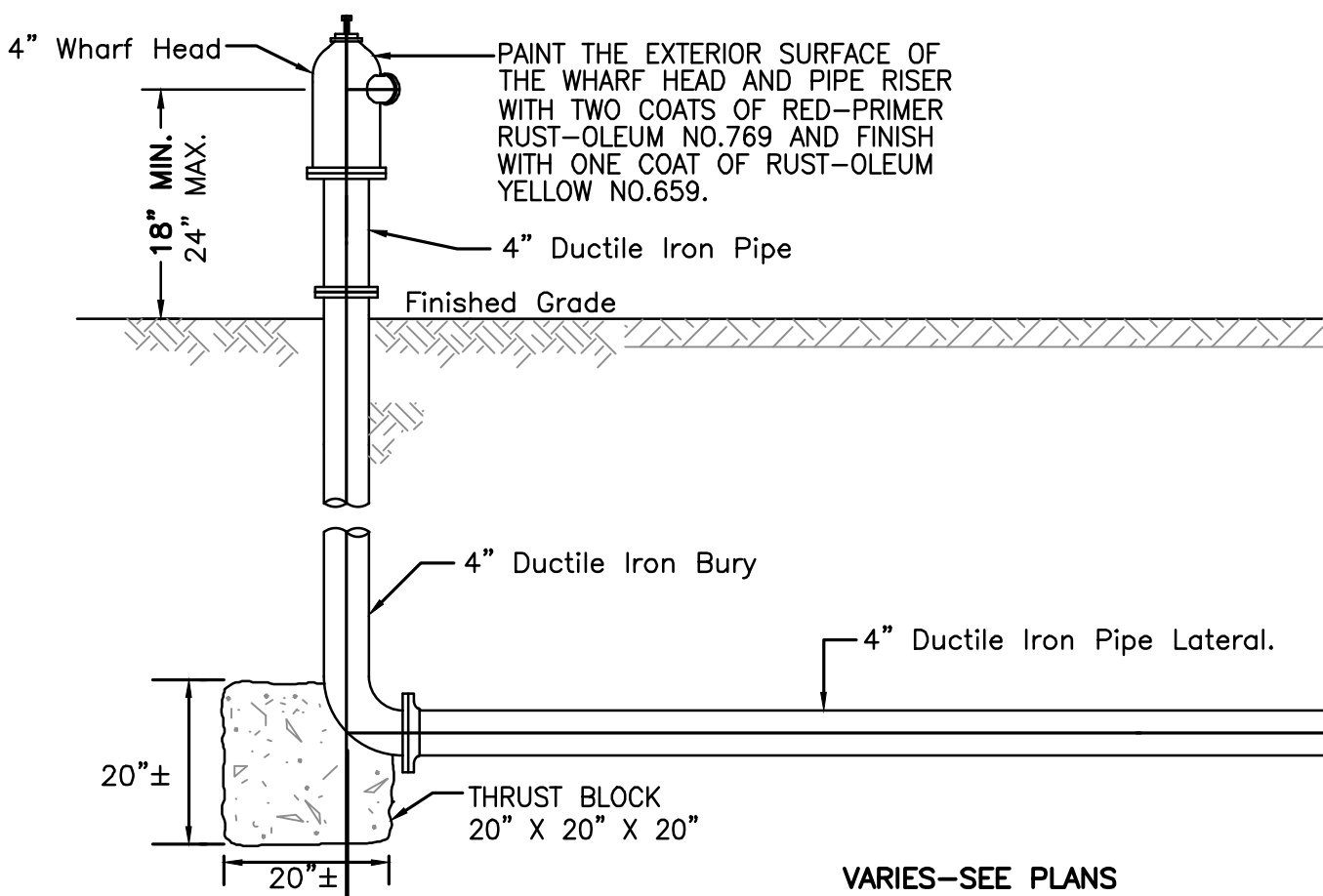


- NOTES:
1. EXPECT ROCKY SOILS. HAUL OFF ALL EXCAVATION MATERIAL LARGER THAN 6". BACKFILL MATERIAL REQUIRED WITH AGG. BASE.
 2. RE-STRIPE YELLOW LINE IN N. PASADENA GLEN RD. FROM E. VOSBURG ST TO END OF STREET.
 3. RE-INSTALL YELLOW DOTS AND REFLECTIVE SQUARES. FOLLOW EXISTING PATTERN.

TYPICAL TRENCH DETAIL
N.T.S.

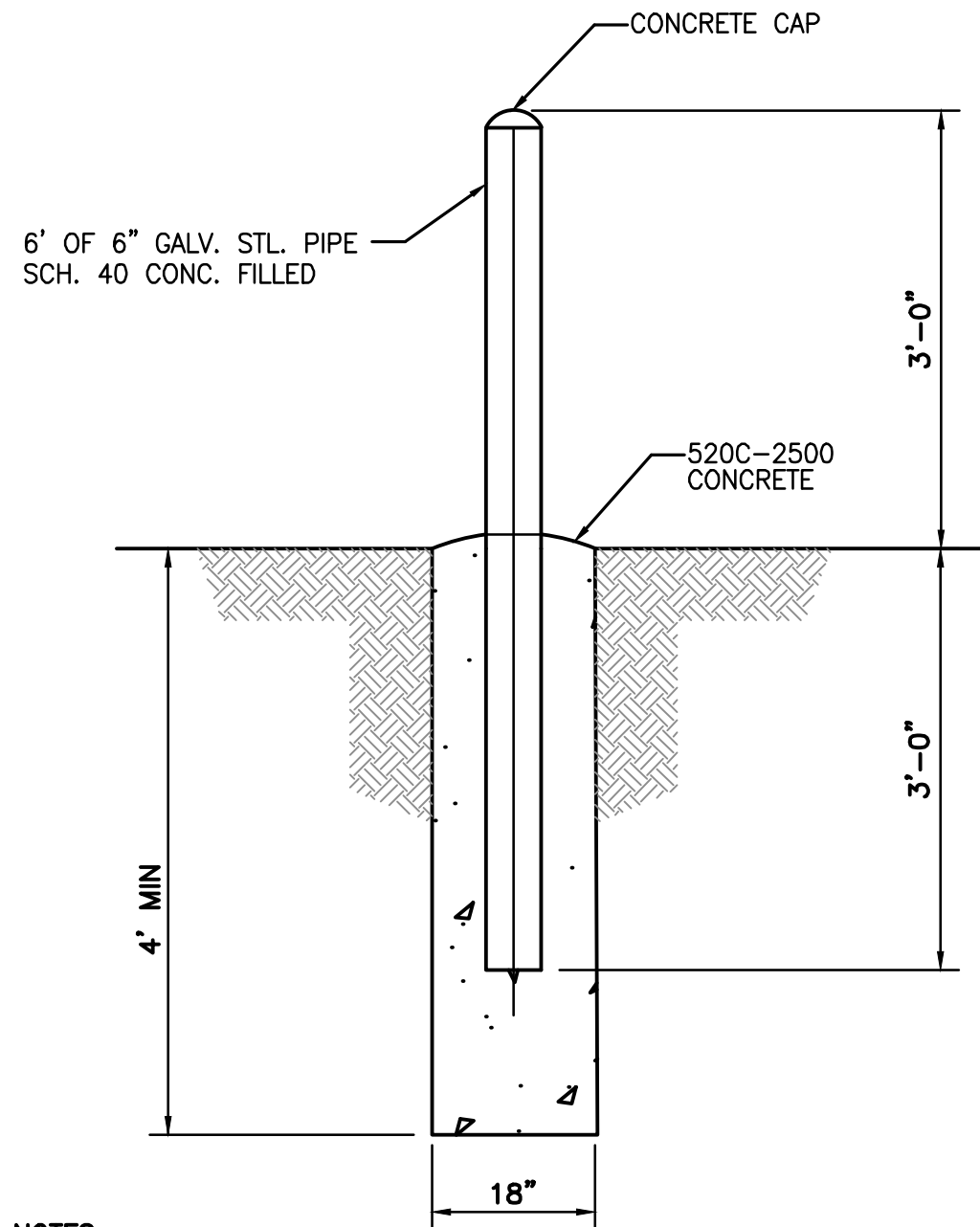
* WATER MAINS, SERVICES AND APPRENTICES.

5
3



4" WHARF FIRE HYDRANT ASSEMBLY
N.T.S.

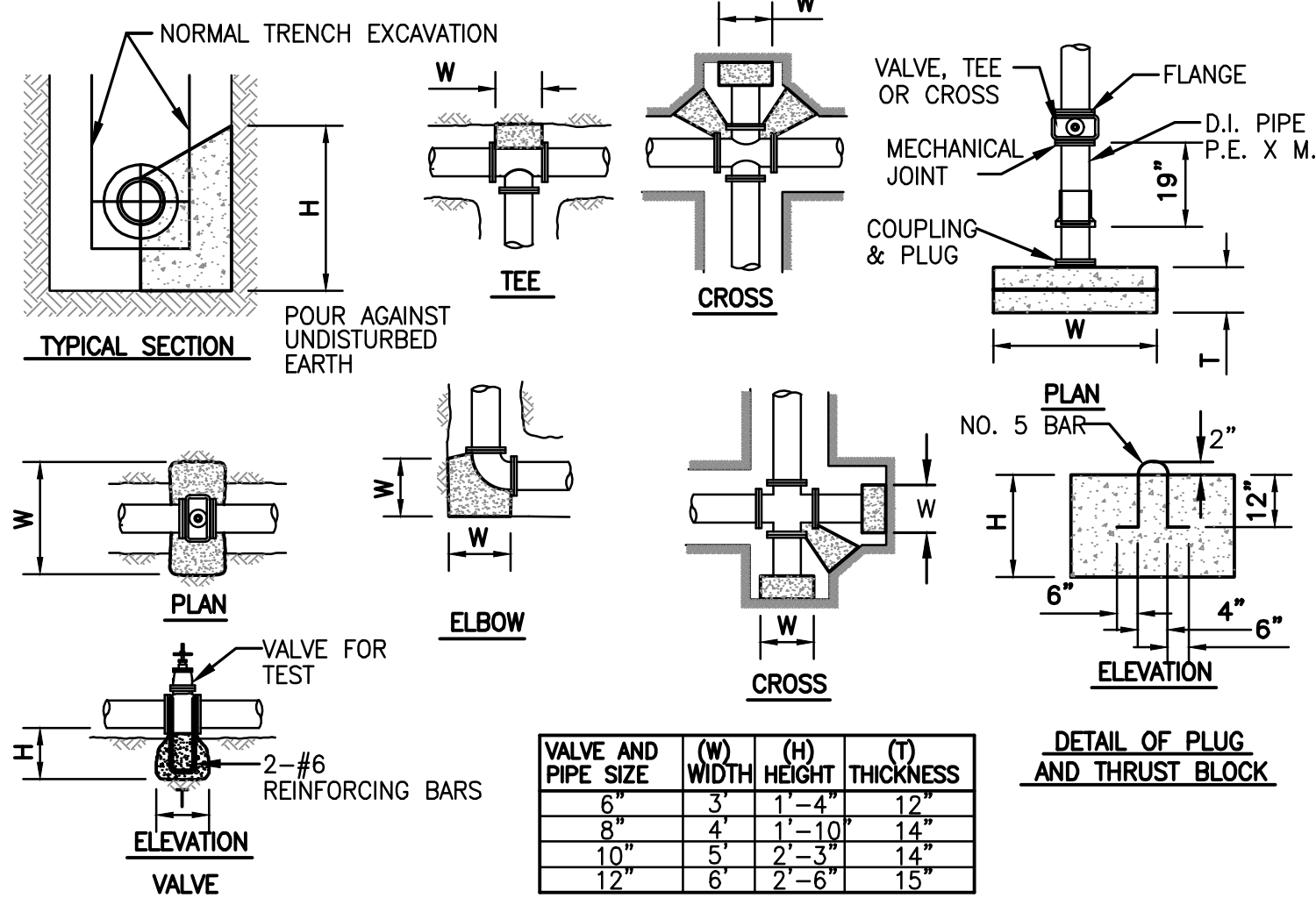
6
3



- NOTES:
1. INSTALL 2 EACH BARRICADE POSTS.
 2. THE EXACT LOCATION OF BARRICADE MAY BE CHANGED BY THE INSPECTOR IN THE FIELD.
 3. THE GALV. PIPE ABOVE GROUND SHALL BE PAINTED TWO FIELD COATS OF ZINC RICH PRIMER.
 4. TWO FINISH COATS OF "COUNTY OF LOS ANGELES FIRE DEPT. YELLOW" SHALL BE USED FOR PRESSURE 100 LBS OR LESS. RED SHALL BE USED FOR PRESSURE 100 LBS OR MORE.

PROTECTIVE BARRICADE
N.T.S.

7
3

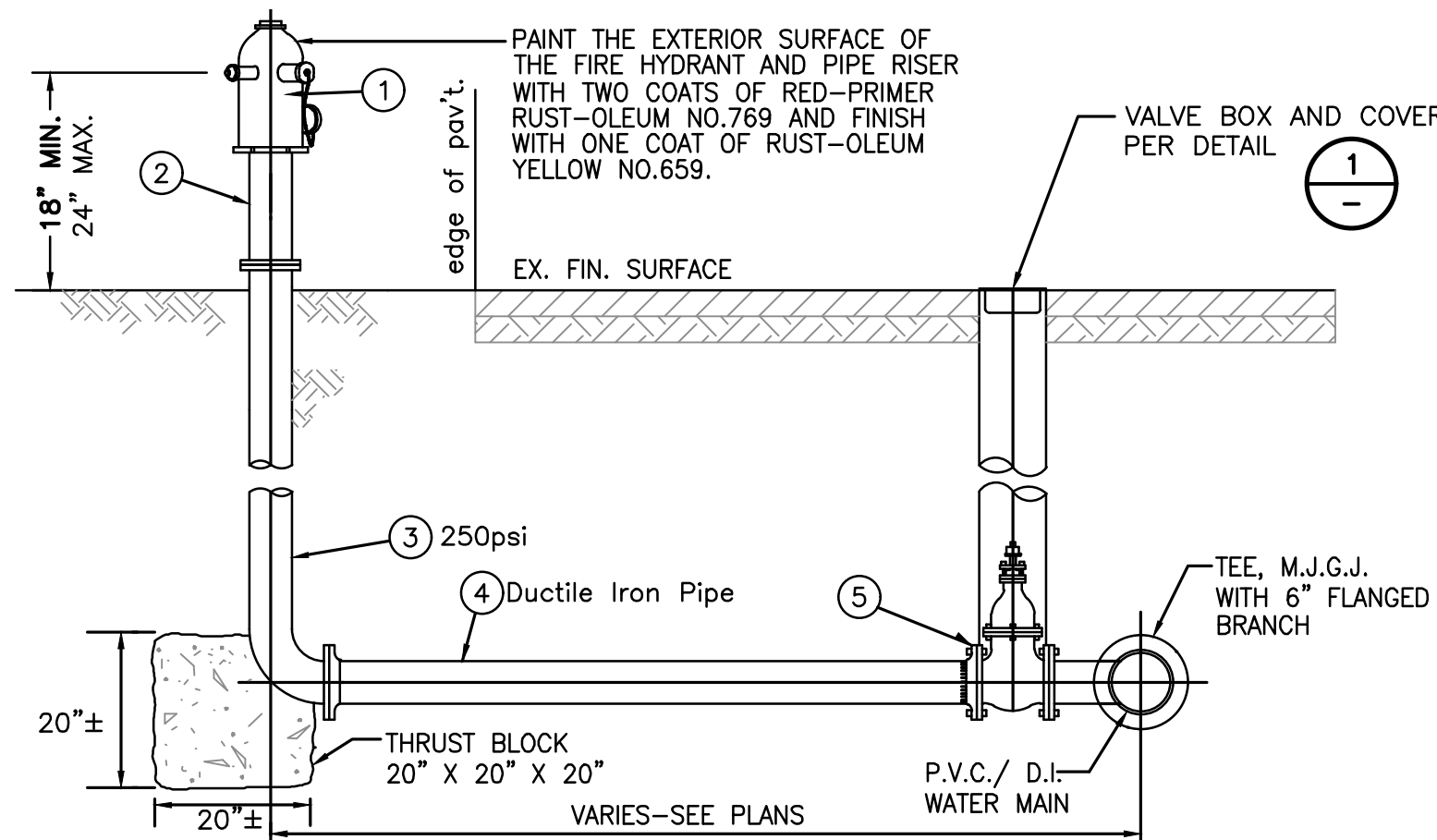


- NOTES:
1. THRUST BLOCK REQUIRED FOR VALVES 6" OR LARGER.
 2. THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH.
 3. THE EARTH PRESSURE BEHIND THRUST BLOCKS SHALL NOT EXCEED 2,000 POUNDS PER SQUARE FOOT.
 4. THE TEST PRESSURE IN THE PIPE SHALL BE 200 POUNDS PER SQUARE INCH.

CONCRETE THRUST BLOCK DETAILS
N.T.S.

8
3

BILL OF MATERIAL		
NO.	QTY.	DESCRIPTION
1		6" x 4" x 2 1/2"
2		6"
3		6"
4		6"
5		6"
6		NOT USED
7		NOT USED
8		12"
9		1/2"
10		1/2"
11		3/4"
12		1" x 3/4"
13		BROOKS NO. 3 1/2 METER BOX WITH CAST IRON LID
14		2" x 2" x 1 1/2" x 1/4"
15		NOT USED
16		1"
17		1"
18		NOT USED
19		1"
20		NOT USED
21		NOT USED
22		2"
23		NOT USED
24		NOT USED
25		NOT USED
26		NOT USED
** 27		"SUPPLIED BY DISTRICT" CAST METER BOX, EPOXY COATED, ARMOR CAST OR ASI WITH STL. LID #38, SUPPLIED BY KID
28		NOT USED
29		1"
** 30		1"-"SUPPLIED BY DISTRICT" BRONZE METER COUPLING, FORD C38-44-2.625, SUPPLIED BY KID
** 31		1"-"SUPPLIED BY DISTRICT" 1" BADGER-RADIO READ REGISTER WITH BRONZE BOTTOM, SUPPLIED BY KID
** 32		1"-"SUPPLIED BY DISTRICT" CHECK VALVE, FORD HS11-444 F.I.P. X F.I.P., SUPPLIED BY KID
33		1"
34		1"
35		1"
36		1"
37		1"
38		1"
39		2"
40		2"
41		2"
42		2"
43		2"
44		2"
45		2"
46		2"
47		2"
48		2"



- NOTES:
1. APPROVED PROTECTIVE GUARD POST BE INSTALLED TO PREVENT MECHANICAL INJURY WHEN LOCATED ON AN UNIMPROVED PRIVATE ROADWAY.
 2. NO DRIVEWAY OR DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITHIN 48" OF THE CENTER OF A HYDRANT RISER.
 3. BREAK AWAY BOLTS AND APPLY SILICONE SEALER TO HOLES.

FIRE HYDRANT ASSEMBLY DETAIL
N.T.S.

9
3



UNDERGROUND SERVICE ALERT
AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

REFERENCES					
NO.	DESCRIPTION	APP.	DATE	NO.	DESCRIPTION



APPROVED BY: KINNELOA IRRIGATION DISTRICT
GENERAL MANAGER
DATE

PLANS PREPARED BY:
CIVILTEC engineering inc.
Civil, Water, Wastewater, Drainage, Transportation and Construction Management • Surveying California • Arizona
605 E. Huntington Drive Suite 205 Monrovia, CA 91016 Phone: 626.357.0588 Web: www.civiltec.com

KINNELOA IRRIGATION DISTRICT				
WATER DISTRIBUTION SYSTEM				
STANDARD DRAWING No. 100				
MISCELLANEOUS DETAILS, BILL OF MATERIAL AND NOTES				
DESIGNED: CFD	CHECKED: TLK	DRAWN: CFD	SCALE: AS SHOWN	
DESIGN DATE: AUGUST 2026	DRAWING No.: 2026123.00	SHEET 3	OF 3	