

I:\PDG-NAS\PUBLIC\PROJECTS\2015-015 PARKER AND STROH.DWG\WATER AND SANITARY PLANS\2015-015 CDS - CVR & NOTES.DWG 8/31/2018 6:43 PM

PARKER WATER AND SANITATION DISTRICT
GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER, DOUGLAS COUNTY AND OTHER NEIGHBORING CITIES AND TOWNS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS CONTACT THE PWSD IMMEDIATELY.
- PWSD ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
- ALL CONCRETE SHALL BE A MINIMUM OF CLASS A, 6 SACK, TYPE II, 3000-POUND COMPRESSION STRENGTH.
- THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF "AS-BUILT" DRAWINGS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL BY DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE PRINTS SHALL BE TRANSMITTED TO THE PWSD OFFICE.
- NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. COMPACTION TESTS MUST BE SUBMITTED TO DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
- SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
- ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
13. "X" FOR SANITARY SERVICE SEWERS
14. "V" FOR WATER SERVICES
- NO TREES ALLOWED IN EASEMENTS OR WITHIN 8' OF WATER OR SANITARY SEWER MAINS IN RIGHT OF WAY.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.

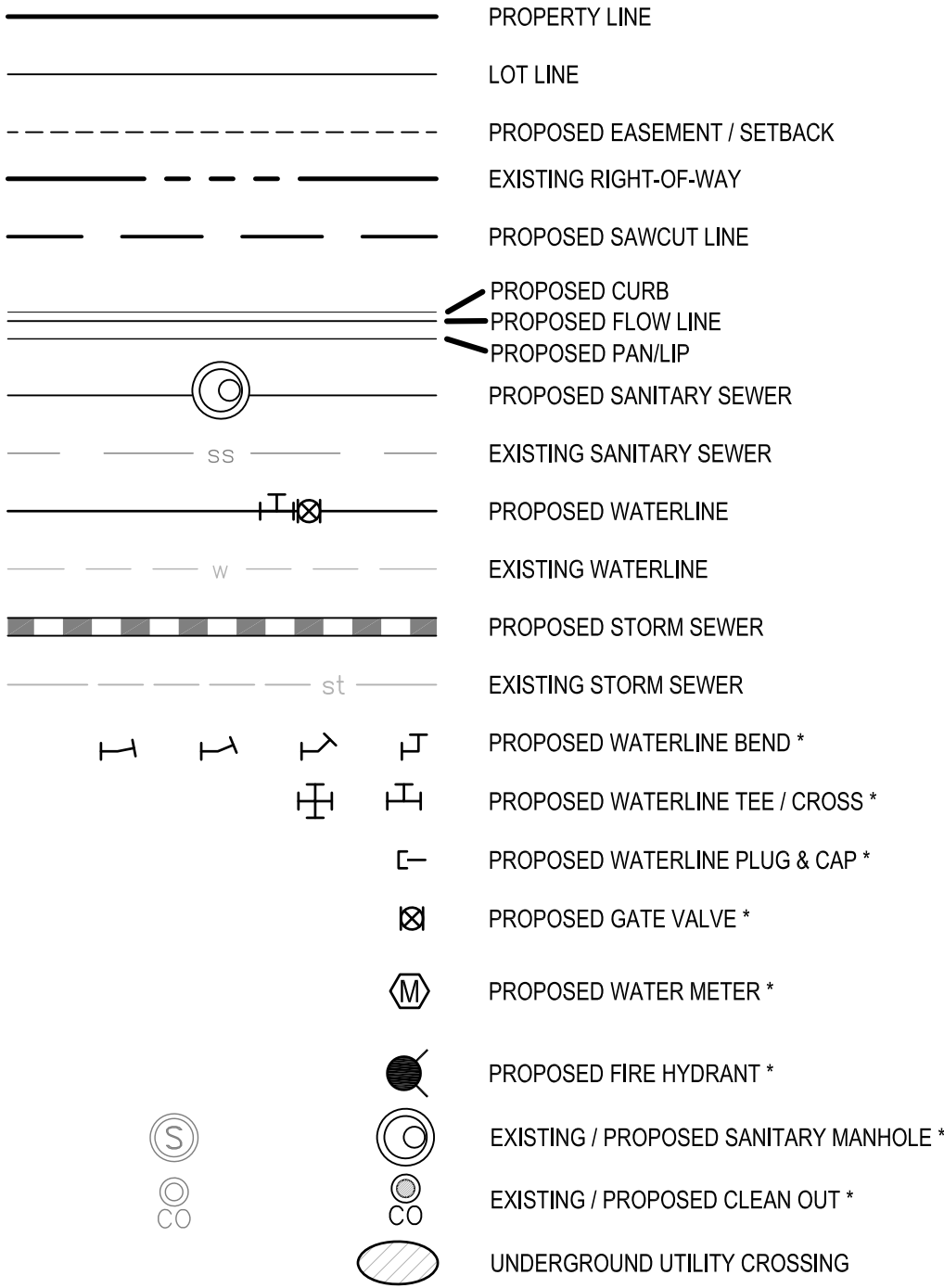
PARKER WATER AND SANITATION DISTRICT
WATER SYSTEM NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- ALL WATER MAINS SHALL BE PER PWSD MATERIALS SPECIFICATIONS. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL BE SUITABLE FOR CHLORINATED AND CHLORAMINATED WATER.
- ALL BENDS, PLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RODDED OR MEGA-LUGGED. ALL FITTINGS SHALL BE WRAPPED PER PWSD MATERIALS SPECIFICATIONS.
- THERE SHALL BE A MINIMUM COVER OF 4.5 FEET OVER ALL WATER MAINS.
- FIRE HYDRANTS SHALL CONFORM TO AWWA C-502 "DRY BARREL FIRE HYDRANTS" PIPE HYDRANT ASSEMBLIES PER PWSD SPECIFICATIONS.
- ALL BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST WITH CONCRETE THRUST BLOCKS.
- PRECAUTIONS SHALL BE TAKEN TO PROTECT THE INTERIOR OF PIPES, FITTINGS, AND VALVES AGAINST CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH WATERTIGHT PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S WORK OR FOR OTHER REASONS, SUCH AS REST BREAKS OR MEAL PERIODS.
- VALVES IN STREETS ARE TO BE LOCATED AT PROPERTY LINE EXTENSIONS EXCEPT FOR TAPPING TEES; WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING TEE. OTHER LOCATIONS SHOWN ON THE PLANS.
- WHEN NECESSARY TO LOWER OR RAISE WATER LINES AT STORM DRAINS AND OTHER UTILITY CROSSING, A MINIMUM CLEARANCE OF 1.5 FEET SHALL BE MAINTAINED BETWEEN OUTSIDE OF PIPES.
- THE CONTRACTOR SHALL NOTIFY THE PWSD AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION, IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP, THE CONTRACTOR MUST NOTIFY THE DISTRICT ENGINEER 48 HOURS PRIOR TO RE-START.
- PIPE BEDDING SHALL BE A CLEAN, WELL-GRADED SAND OR SQUEEGEE SAND IN ACCORDANCE WITH PWSD STANDARDS AND SPECIFICATIONS, LATEST REVISION.
- THE CONTRACTOR SHALL NOTIFY THE PUBLIC UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE EXCAVATION. ALL WORK PERFORMED IN THE AREA OF THE PUBLIC UTILITIES SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THESE AGENCIES.
- COMPACTION OF ALL TRENCHES MUST BE ATTAINED IN ACCORDANCE WITH THE SOILS REPORTS AND COMPACTION TEST RESULTS SUBMITTED TO THE DISTRICT ENGINEER PRIOR TO PROBATIONARY ACCEPTANCE.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR, DESIGN ENGINEER, AND REPRESENTATIVE OF OTHER APPROVING AGENCIES.
- CHLORINATION AND FLUSHING: ALL WATER MAINS SHALL BE INSTALLED AND CHLORINATED PER PWSD SPECIFICATIONS. CHLORINATION OF FINISHED PIPELINE COMPLETED BEFORE HYDROSTATIC TESTING.
- HYDROSTATIC TESTING: ALL WATER MAINS SHALL BE TESTED PER THE REQUIREMENTS OF THE PWSD SPECIFICATIONS UP TO MINIMUM OF 150 PSI IN THE PRESENCE OF A PWSD INSPECTOR/ENGINEER.

PARKER WATER AND SANITATION DISTRICT
SANITARY SEWER SYSTEM NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSD ENGINEERING STANDARDS AND SPECIFICATIONS, LATEST VERSION.
- ALL SEWER MAINS SHALL BE PVC, ASTM D-3034, SDR 35 OR APPROVED EQUAL. ALL SEWER MAIN SIZE IS 8" IN DIAMETER UNLESS OTHERWISE NOTED.
- SEWER LINES SHALL BE INSTALLED 5.0 FEET SOUTH OR WEST OF STREET CENTERLINE, UNLESS OTHERWISE SHOWN ON PLANS. SEWER LINES SHALL BE 10.00 FEET FROM WATER LINES EXCEPT WHEN CROSSING EACH OTHER. SEWER LINES WHICH CROSS LESS THAN 1.50 FEET VERTICALLY FROM THE WATER MAIN SHALL BE ENCASED IN CONCRETE AS PER PWSD SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.
- SEWER RIM ELEVATIONS SHOWN ARE APPROPRIATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAIN-NECK FOR ADJUSTMENT TO MATCH FINAL PAVEMENT ELEVATIONS.
- THE CONTRACTOR AND SURVEY CREW SHALL VERIFY ELEVATIONS OF EXISTING SEWER LINES AND MANHOLES TO BE TIED TO PRIOR TO CONSTRUCTION OR STAKING OF SANITARY SEWER.
- NO UNDERDRAIN SYSTEM WILL BE ALLOWED TO BE PLACED IN MAINLINE OR SEWER SERVICE TRENCHES.
- SEWER SERVICE TEES FOR EACH UNIT SHALL BE STAKED BY A SURVEY CREW AND FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS CONSTRUCTED" LOCATION OF TEES. SEWER WYES SHALL BE USED RATHER THAN TEES.
- ALL MANHOLES SHALL BE 48-INCHES IN DIAMETER WITH 24-INCH RING AND COVER, ECCENTRIC CONE UNLESS OTHERWISE SPECIFIED. ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- PIPE BEDDING SHALL BE CLASS "B" AND SHALL CONFORM TO ASTM C-33 OR D-448 GRADATION NO. 6 OR NO. 67.
- AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING WILL BE HELD AT THE OFFICE OF THE DISTRICT ENGINEER AND ATTENDED BY THE CONTRACTOR AND REPRESENTATIVES OF THE OTHER APPROVING AGENCIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE DISTRICT ENGINEER TO SCHEDULE THIS MEETING.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PWSD AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSD SPECIFICATION MANUAL.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PWSD STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
- PRIOR TO STARTING WORK WHERE SEWER MAIN IS TO BE CONNECTED TO EXISTING PWSD SEWER SYSTEMS, THE NEAREST MANHOLE TO THE POINT OF TIE-IN SHALL BE PLUGGED WITH A PLUMBER'S PLUG ON THE INLET SIDE BY THE CONTRACTOR. THIS PLUG SHALL REMAIN IN PLACE UNTIL FINAL PROBATIONARY ACCEPTANCE BY PWSD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN INSTRUCTED BY THE DISTRICT.
- PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH. THE CONTRACTOR SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

LEGEND



ABBREVIATIONS

ASSY	ASSEMBLY
BP	BOTTOM OF PIPE
ESMT	EASEMENT
ELEV	ELEVATION
EX	EXISTING
DIP	DUCTILE IRON PIPE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FU	FUTURE
GV	GATE VALVE
INV	INVERT
KB	KICK BLOCK / THRUST BLOCK
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
TP	TOP OF PIPE
W/	WITH

WATER AND SANITARY NOTES



PREPARED UNDER THE DIRECT SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

NO.	DATE	DESCRIPTION	REVISIONS
1	08/31/18	FOURTH SUBMITTAL	
2	05/25/18	THIRD SUBMITTAL	
3	03/19/18	PWSD SUBMITTAL	
4	02/28/18	SECOND SUBMITTAL	
5	10/24/17	INITIAL SUBMITTAL	

PARKER POINT
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET
C7.01

I:\PDG-NAS\PUBLIC\PROJECTS\2015-015 PARKER AND STROH\DWG\WATER AND SANITARY PLANS\2015-015 CDS - OVERALL UTIL PLANDWG 8/31/2018 4:00 PM

WATER ITEMS ON SHEET C7.10			
#	ITEM	STA.	OS (FT.)
1	PR. 8" G.V.	0+75.41	5.00 R
2	PR. 8"x8" TEE	0+75.41	5.00 R
3	PR. 6" G.V. / 23.5 LF 6" DIP / 6" HYDRANT ASSY.	1+69.45	23.50 R
4	PR. 8" G.V.	1+74.45	5.00 R
5	PR. 8"x6" TEE W/ KB	1+69.45	5.00 R
6	PR. 8"x6" TEE W/ KB	3+62.74	5.00 R
7	PR. 8" G.V.	3+67.74	5.00 R
8	PR. 6" G.V. / 28.5 LF 6" DIP / 6" HYDRANT ASSY.	3+62.74	23.50 L
9	PR. 8" G.V.	0+75.41	0.000
10	PR. 8"x8" TEE	7+12.05	5.00 R
11	PR. 8" G.V.	7+17.05	5.00 R
12	PR. 6" G.V. / 18.5 LF 6" DIP / 6" HYDRANT ASSY.	6+52.55	23.50 R
13	PR. 8"x6" TEE W/ KB	6+52.55	5.00 R
14	PR. 8" G.V.	6+57.55	5.00 R
15	PR. 10.5 LF 6" DIP / 6" HYDRANT ASSY.	8+54.72	15.50 R
16	PR. 6" G.V.	8+54.72	10.00 R
17	PR. 8"x6" TEE W/ KB	8+54.72	5.00 R
18	PR. 8" G.V.	8+59.72	5.00 R
25	PR. L.P. BLOW-OFF VALVE	1+23.94	0.00
58	PR. AIR RELEASE VALVE	3+52.74	0.00

WATER ITEMS ON SHEET C7.11			
#	ITEM	STA.	OS (FT.)
27	PR. L.P. BLOW-OFF VALVE	11+94.30	0.000
28	PR. L.P. BLOW-OFF VALVE	12+76.56	0.000
29	PR. 8"x6" TEE W/ KB	12+03.83	5.00 R
30	PR. 6" G.V. / 10.5 LF 6" DIP / 6" HYDRANT ASSY.	12+03.83	15.50 R
31	PR. 8" G.V.	12+08.83	5.00 R
32	PR. 8" 45° BEND W/ KB	12+17.98	5.78 R
33	PR. 8" 45° BEND W/ KB	12+63.51	5.78 R
34	PR. 8" 45° BEND W/ KB	14+13.15	4.57 R
35	PR. 8" 45° BEND W/ KB	14+64.21	0.45 R
36	PR. 8" G.V.	14+69.18	0.00
43	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY.	14+74.19	19.00 L
44	PR. 8"x6" TEE W/ KB	14+74.19	0.00
57	PR. AIR RELEASE VALVE	12+53.51	0.00

WATER ITEMS ON SHEET C7.12			
#	ITEM	STA.	OS (FT.)
24	PR. L.P. BLOW OFF	0+22.02	0.00
37	PR. 8"x6" TEE W/ KB	23+28.49	0.00
38	PR. 8" G.V.	23+23.49	0.00
39	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY	23+28.49	19.00 L
40	PR. 8"x8" TEE W/ KB	26+04.57	0.00
41	PR. 8"x6" TEE W/ KB	19+21.36	0.00
42	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY	19+21.36	19.00 L
45	PR. L.P. BLOW OFF	25+64.19	0.00
47	PR. 8" G.V.	19+16.36	0.00
48	PR. 8" AIRVAC VALVE	23+35.90	0.00
49	PR. 8" G.V.	25+99.57	0.00
50	PR. 8"x8" TEE W/ KB	0+59.61	0.00
51	PR. 8"x6" TEE W/ KB	-0+10.56	0.00
52	PR. 6" G.V. / 23.94 LF 6" DIP / 6" HYDRANT ASSY.	-0+10.56	23.94 R

WATER ITEMS ON SHEET C7.13			
#	ITEM	STA.	OS (FT.)
53	8"x8" TEE W/ KB	0+00.00	0.00
55	8"x6" TEE W/ KB	3+23.50	0.00
56	PR. 6" HYDRANT ASSY. / 18.50LF 6" DIP / 6" G.V.	3+23.50	18.50 L
57	PR. 8" G.V.	1+18.00	0.00

LEGEND

	PROPERTY LINE
	LOT LINE
	PROPOSED EASEMENT / SETBACK
	EXISTING RIGHT-OF-WAY
	PROPOSED SAWCUT LINE
	PROPOSED CURB
	PROPOSED FLOW LINE
	PROPOSED PAN/LIP
	PROPOSED SANITARY SEWER
	EXISTING SANITARY SEWER
	PROPOSED WATERLINE
	EXISTING WATERLINE
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
	PROPOSED WATERLINE BEND *
	PROPOSED WATERLINE TEE / CROSS *
	PROPOSED WATERLINE PLUG & CAP *
	PROPOSED GATE VALVE *
	PROPOSED WATER METER *
	PROPOSED FIRE HYDRANT *
	EXISTING / PROPOSED SANITARY MANHOLE *
	EXISTING / PROPOSED CLEAN OUT *
	UNDERGROUND UTILITY CROSSING

ABBREVIATIONS

ASSY	ASSEMBLY
BP	BOTTOM OF PIPE
ESMT	EASEMENTPS
ELEV	ELEVATION
EX	EXISTING
DIP	DUCTILE IRON PIPE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FU	FUTURE
GV	GATE VALVE
INV	INVERT
KB	KICK BLOCK / THRUST BLOCK
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
TP	TOP OF PIPE
WI	WITH

UTILITY NOTES

- ALL UTILITY CONSTRUCTION SHALL CONFORM TO PARKER WATER AND SANITATION DISTRICT AND CRITERIA REFERENCE. LOCAL AGENCY INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS.
- NOMINAL DEPTH OF WATER MAIN SHALL BE 4.5' FROM FINISHED GRADE TO TOP OF PIPE.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE PARKER WATER AND SANITATION DISTRICT THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES SHOWN ON THIS PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND DO NOT REFLECT A COMPLETE SURVEY OF EXISTING UTILITIES. CONTACT THE ENGINEER WITH DISCREPANCIES.
- SAWCUT OF EXISTING STREETS SHALL BE IN CONFORMANCE WITH TOWN STANDARDS. CUTS SHALL STRAIGHT WITH CLEAN EDGES. REMOVE EXISTING CURB AND GUTTER TO NEAREST JOINT RETURN ALONG EXISTING LINE AND GRADE.
- THE OWNER AND OR THEIR REPRESENTATIVE SHALL BE RESPONSIBLE FOR COORDINATION WITH EXISTING FRANCHISE UTILITIES TO INCLUDE COMCAST, XCEL, CENTURY LINK OR OWNERS OF EXISTING DRY UTILITY LINES.
- EXISTING UTILITY SURFACE APPURTENANCES SHALL BE RAISED TO FINISHED GRADE. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE LIDS, VALVE COVERS.

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATION OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

FIRE CODE OFFICIAL OR DESIGNATED REPRESENTATIVE _____ DATE _____
(NOTE - UNDERGROUND FIRE LINE (UFL) SUBMITTAL DOCUMENTS MUST MEET THE REQUIREMENTS OF NFPA 24 WHEN SUBMITTING FOR REVIEW.)

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES. SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATIONS. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER

TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

CAUTION: NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

TOWN NOTE

THE PROPOSED UTILITY CONNECTION WILL REQUIRE A TOWN RIGHT-OF-WAY PERMIT PRIOR TO COMMENCING WORK. THE TOWN PREFERS CONNECTIONS TO BE BORED TO THE EXTENT POSSIBLE. AND ANY STREET CUT ALLOWED BY THE TOWN WILL BE REQUIRED TO BE PATCHED ACCORDING TO THE TOWN'S CONSTRUCTION STANDARDS AND DETAILS. THE LIMITS OF PATCHING WILL BE DETERMINED BY THE TOWN AT THE TIME OF CONSTRUCTION. THE TOWN OF PARKER DOES NOT ALLOW ROADWAY CLOSURES FOR UTILITY WORK.

OVERALL UTILITY PLAN



PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION	REVISIONS
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PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

C7.09

BENCHMARK

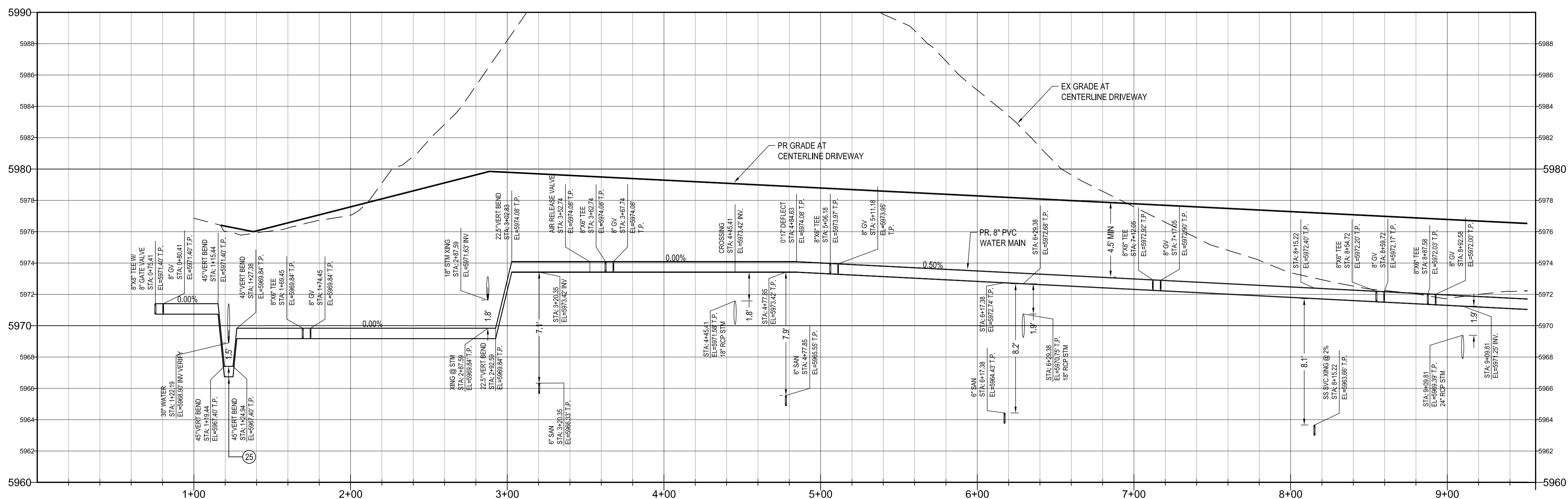
BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT
TT15A - 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT
THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US
HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)



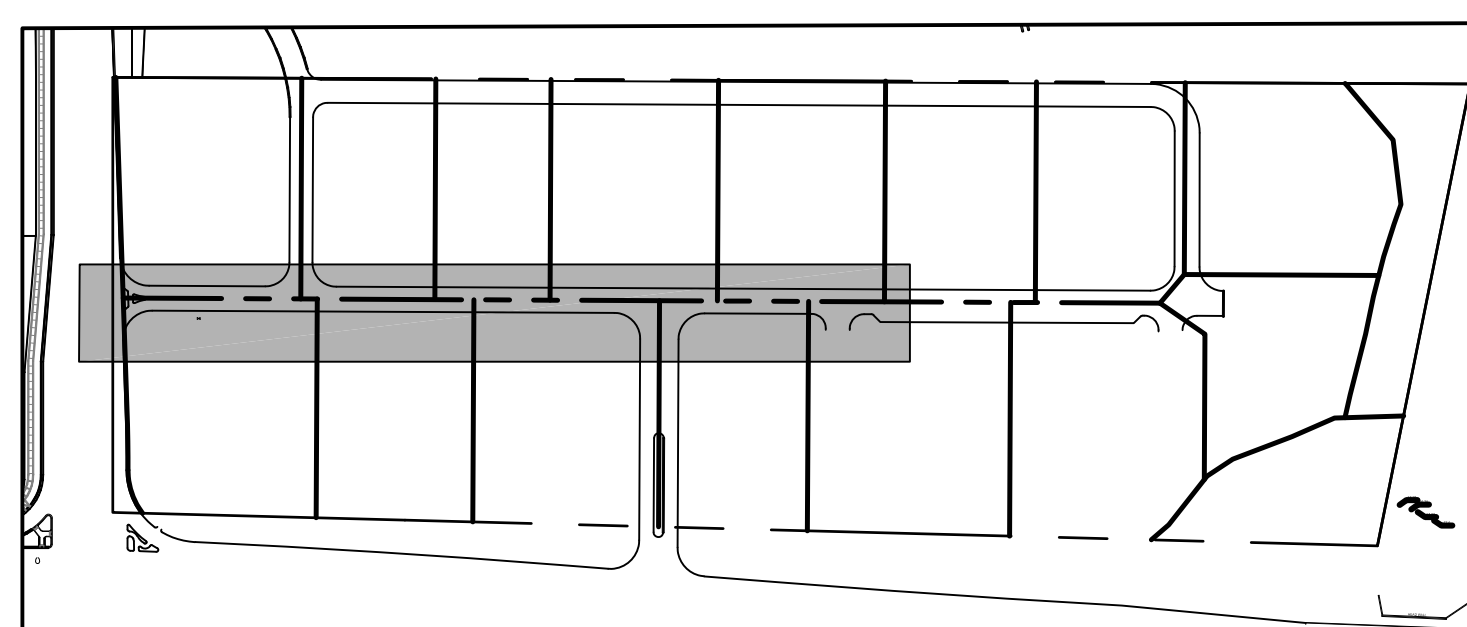
SEE SHEET C7.13

STATIONING IS BASED UPON CENTERLINE OF DRIVEWAY

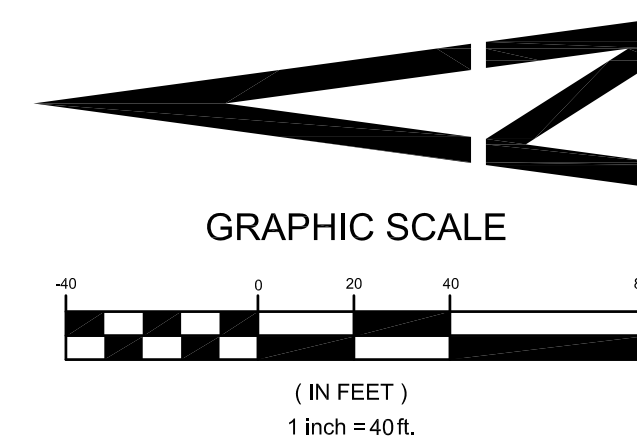
ITEMS ALONG ALIGNMENT			
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SEE SHEET C7.11



KEY MAP



BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT
TT15A - 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT
THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US
HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

**CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.**

CAUTION: NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

WATER PLAN & PROFILE

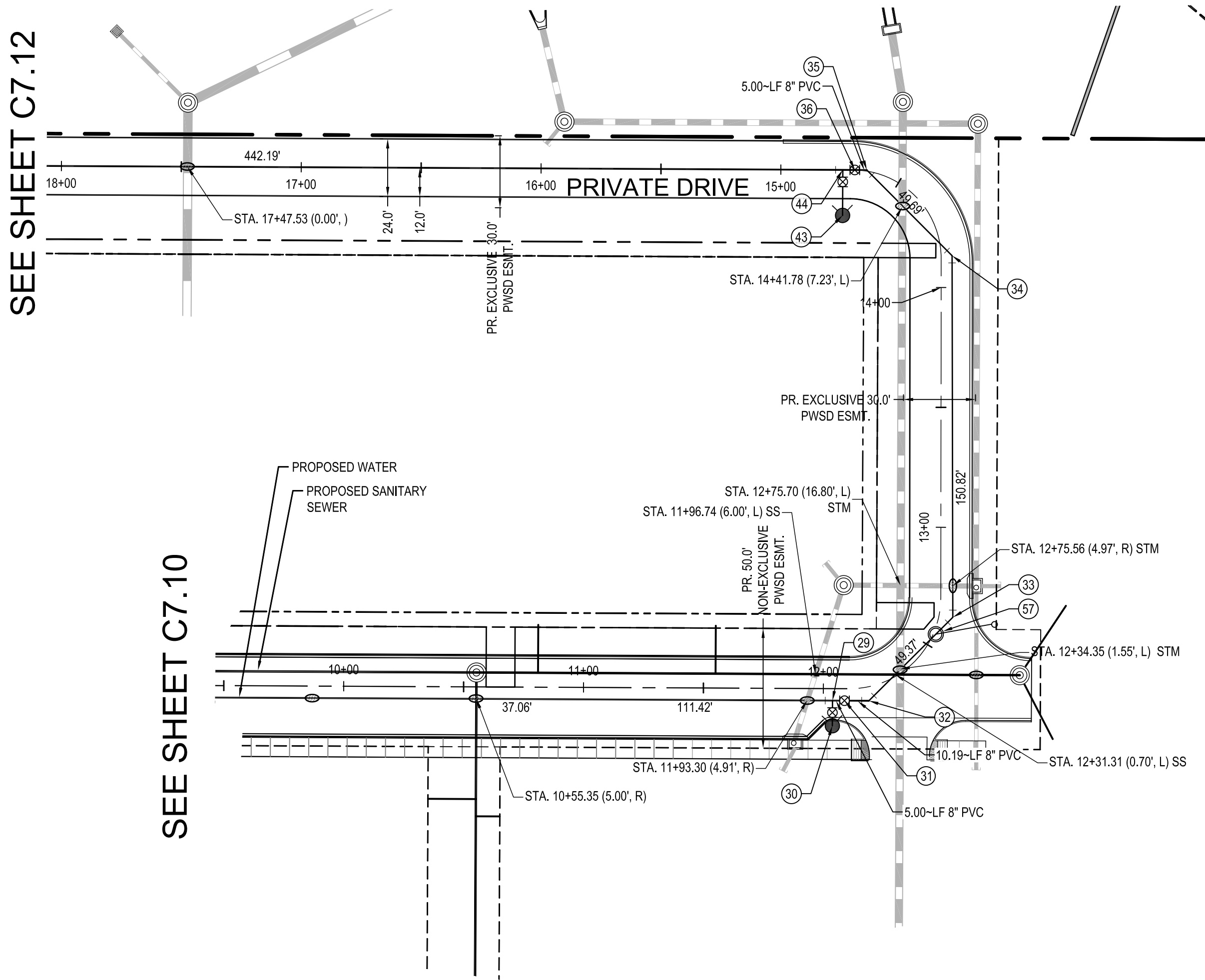
PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by:	JWD
approved by:	JWD
project no.:	2015-015
date:	10/01/17

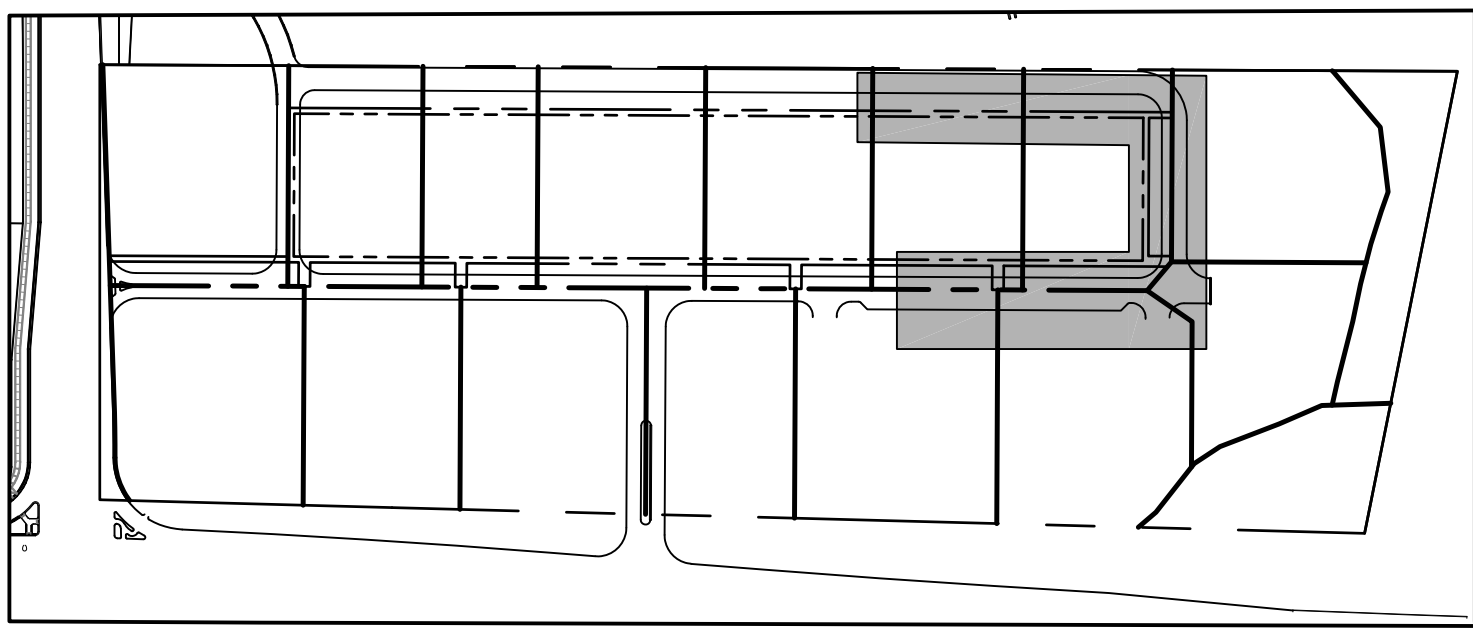
C7.10

\\PDG-NAS\\PUBLIC\\PROJECTS\\2015-015 PARKER AND STROH.DWG\\WATER AND SANITARY PLANS\\2015-015 CDS -WATER PLANDWG 8/31/2018 3:06 PM

WATER MAINS MAY NOT BE TAPPED FOR A
SERVICE LINE UNTIL TAP FEES ARE PAID

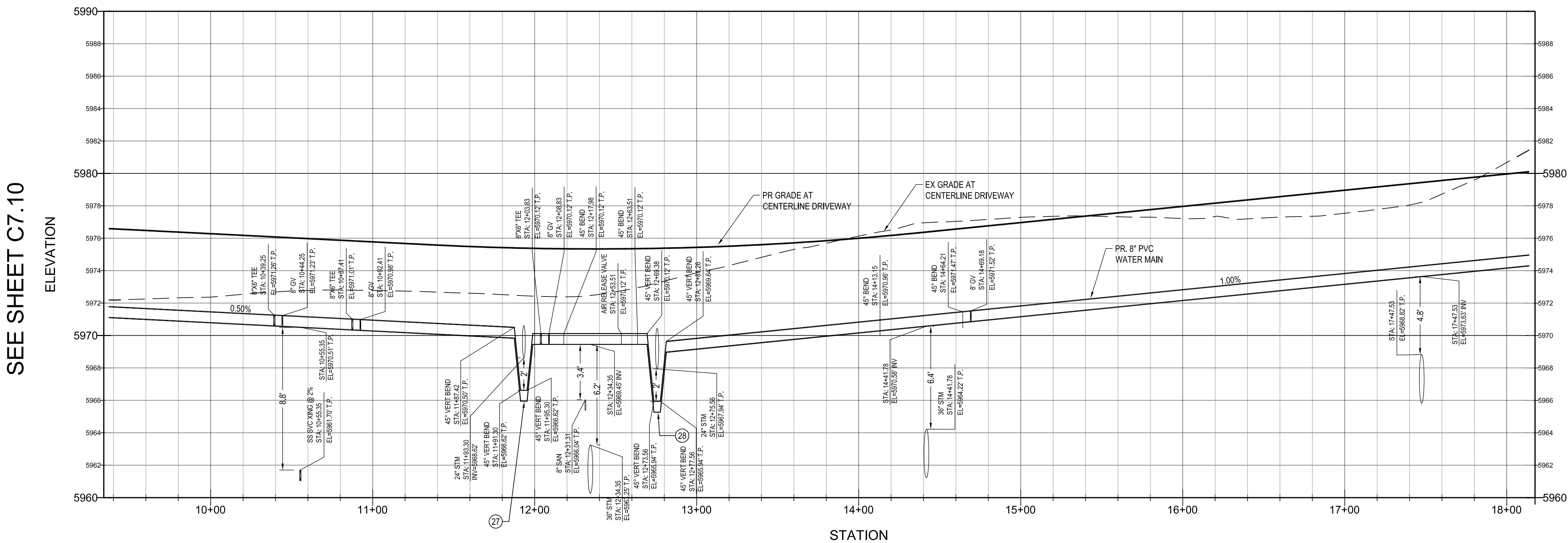


ITEMS ALONG ALIGNMENT			
#	ITEM	STA.	OS (FT.)
27	PR. L.P. BLOW-OFF VALVE	11+94.30	0.000
28	PR. L.P. BLOW-OFF VALVE	12+76.56	0.000
29	PR. 8"X6" TEE W/ KB	12+03.83	5.00 R
30	PR. 6" G.V. / 10.5 LF 6" DIP / 6" HYDRANT ASSY.	12+03.83	15.50 R
31	PR. 8" G.V.	12+08.83	5.00 R
32	PR. 8" 45° BEND W/ KB	12+17.98	5.78 R
33	PR. 8" 45° BEND W/ KB	12+63.51	5.78 R
34	PR. 8" 45° BEND W/ KB	14+13.15	4.57 R
35	PR. 8" 45° BEND W/ KB	14+64.21	0.45 R
36	PR. 8" G.V.	14+69.18	0.00
43	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY.	14+74.19	19.00 L
44	PR. 8"X6" TEE W/ KB	14+74.19	0.00
57	PR. AIR RELEASE VALVE	12+53.51	0.00



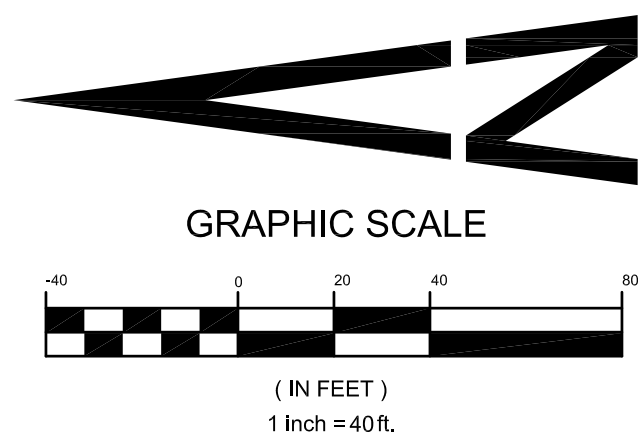
KEY MAP

STATIONING IS BASED UPON CENTERLINE OF DRIVEWAY



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
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BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT
TT15A - 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT
THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US
HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

WATER PLAN & PROFILE

PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

C7.11

PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

DATE	DESCRIPTION	REVISIONS
08/31/18	FOURTH SUBMITTAL	
05/25/18	THIRD SUBMITTAL	
03/19/18	PWSD SUBMITTAL	
02/28/18	SECOND SUBMITTAL	
10/24/17	INITIAL SUBMITTAL	

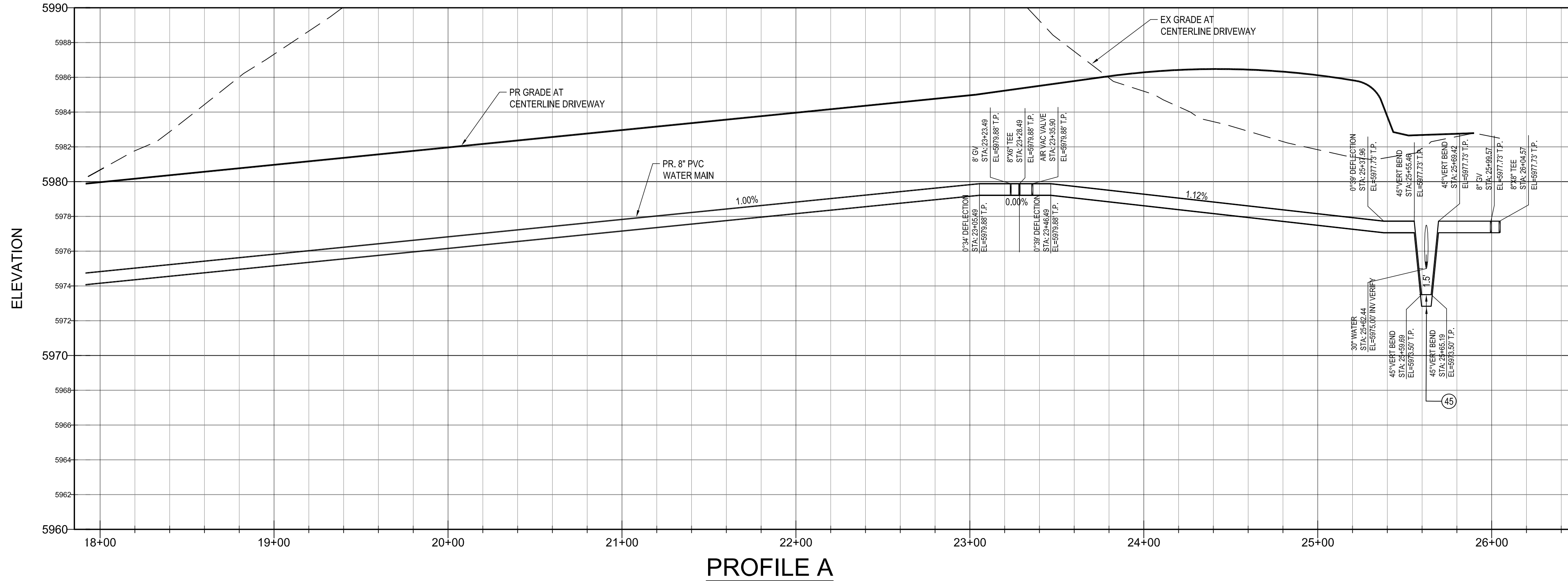
PERCEPTION
DESIGN GROUP, INC.
9801 SOUTH PIERCE STREET SUITE 315, LITTLETON, CO 80120 303-223-8888
WWW.PERCEPTIONSDSGROUP.COM

\\PDG-NAS\PUBLIC\PROJECTS\2015-015 PARKER AND STROH\DWG\WATER AND SANITARY PLANS\2015-015 CDS -WATER PLANDWG 8/31/2018 3:08 PM

SEE SHEET C7.11

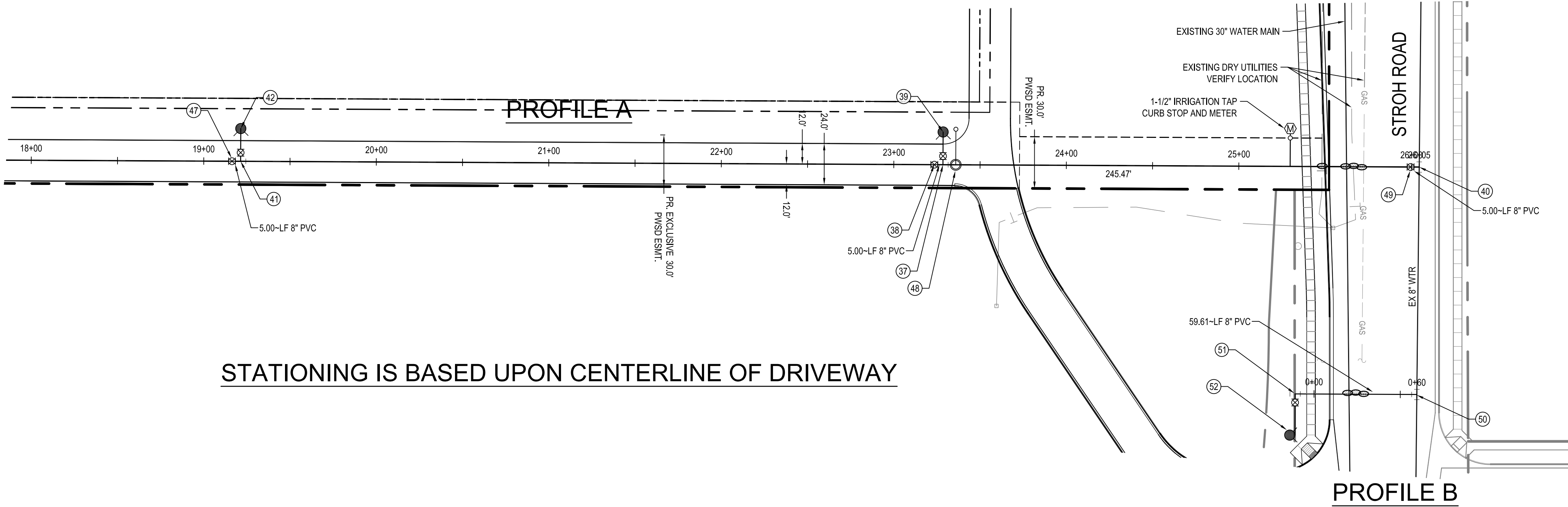
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PROFILE A

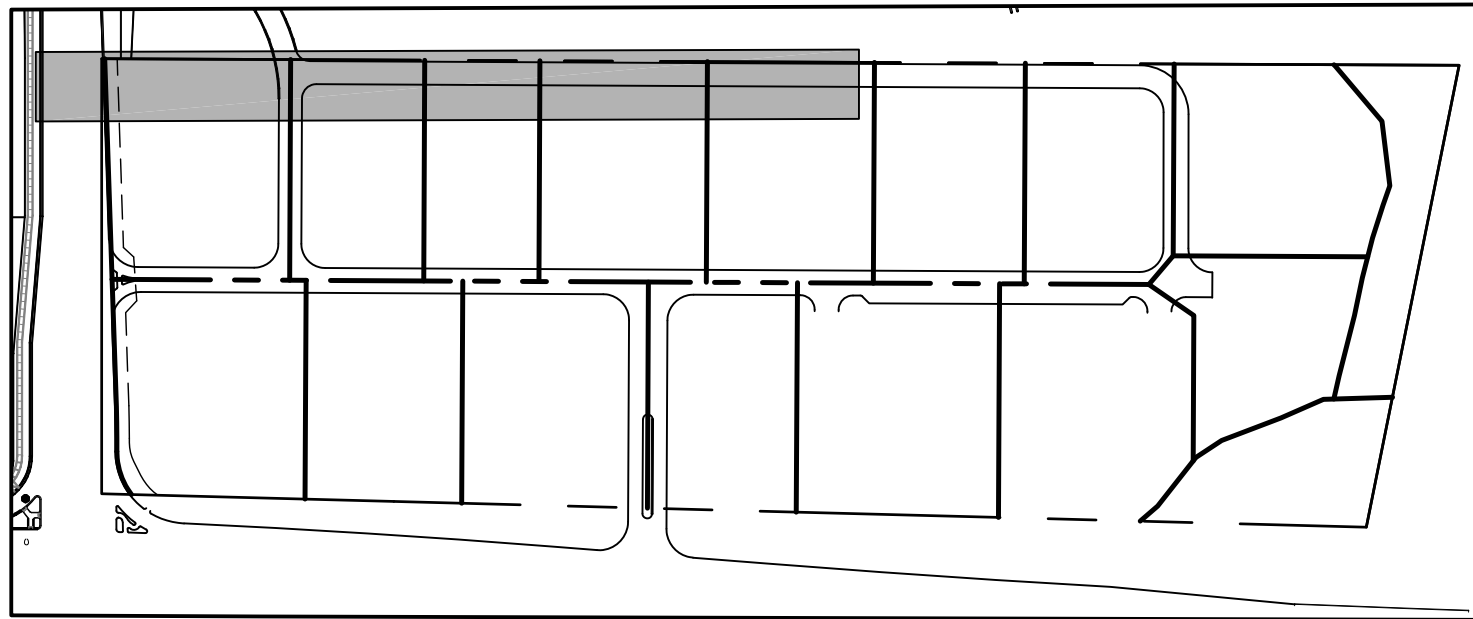
SEE SHEET C7.11



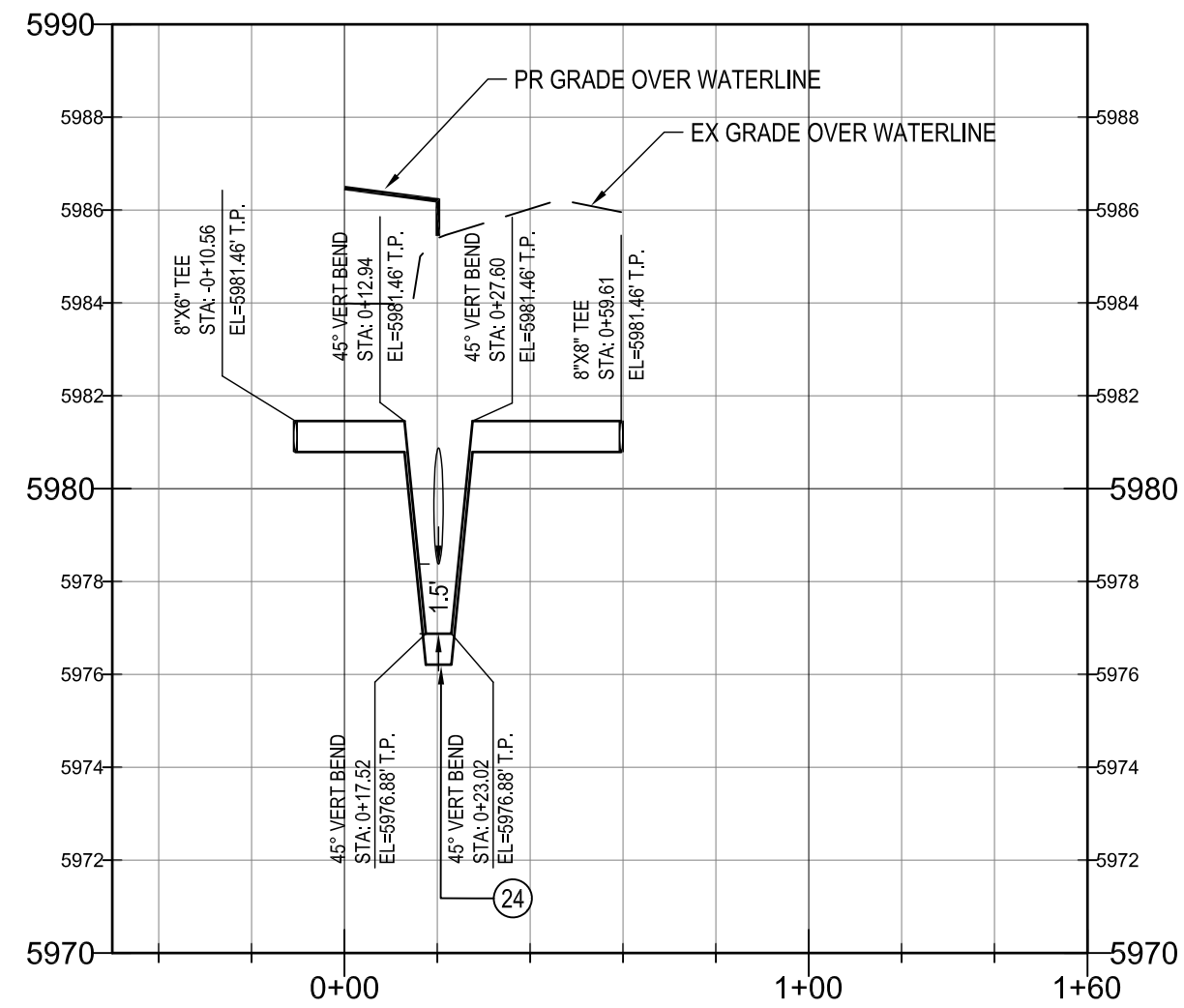
WATER MAINS MAY NOT BE TAPPED FOR A
SERVICE LINE UNTIL TAP FEES ARE PAID

STATIONING IS BASED UPON CENTERLINE OF DRIVEWAY

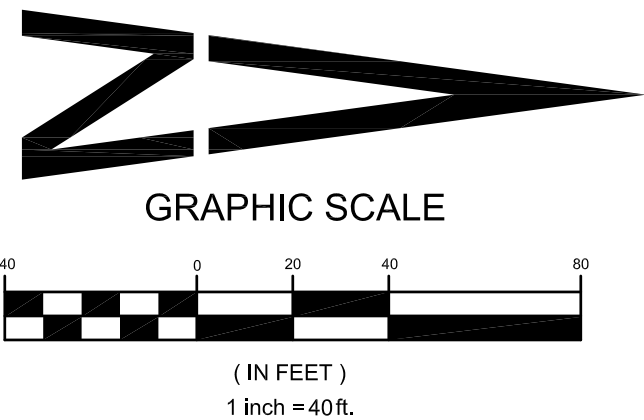
#	ITEM	STA.	OS (FT.)
24	PR. L.P. BLOW OFF	0+22.02	0.00
37	PR. 8"X6" TEE W/ KB	23+28.49	0.00
38	PR. 8" G.V.	23+23.49	0.00
39	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY	23+28.49	19.00 L
40	PR. 8"X8" TEE W/ KB	26+04.57	0.00
41	PR. 8"X6" TEE W/ KB	19+21.36	0.00
42	PR. 6" G.V. / 19.0 LF 6" DIP / 6" HYDRANT ASSY	19+21.36	19.00 L
45	PR. L.P. BLOW OFF	25+64.19	0.00
47	PR. 8" G.V.	19+16.36	0.00
48	PR. 8" AIRVAC VALVE	23+35.90	0.00
49	PR. 8" G.V.	25+99.57	0.00
50	PR. 8"X8" TEE W/ KB	0+59.61	0.00
51	PR. 8"X6" TEE W/ KB	-0+10.56	0.00
52	PR. 6" G.V. / 23.94 LF 6" DIP / 6" HYDRANT ASSY.	-0+10.56	23.94 R



KEY MAP



STATION
PROFILE B



BENCHMARK

BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT
TT15A - 3" DIAMETER DOUGLAS COUNTY GIS ALUMINUM CAP AT
THE NE CORNER OF STROH ROAD AND SOUTH PARKER ROAD (US
HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

WATER PLAN & PROFILE

PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

C7.12

PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

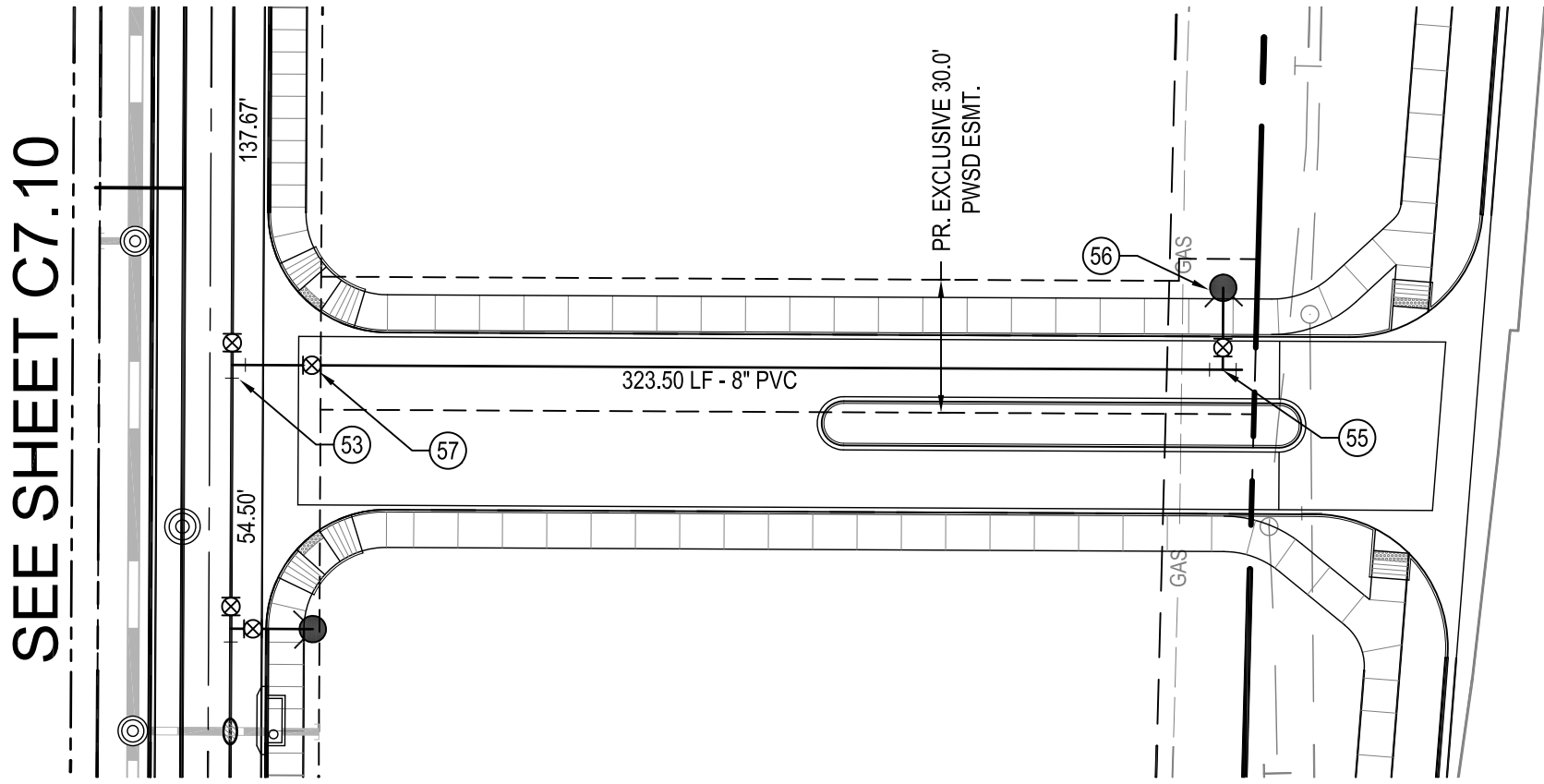
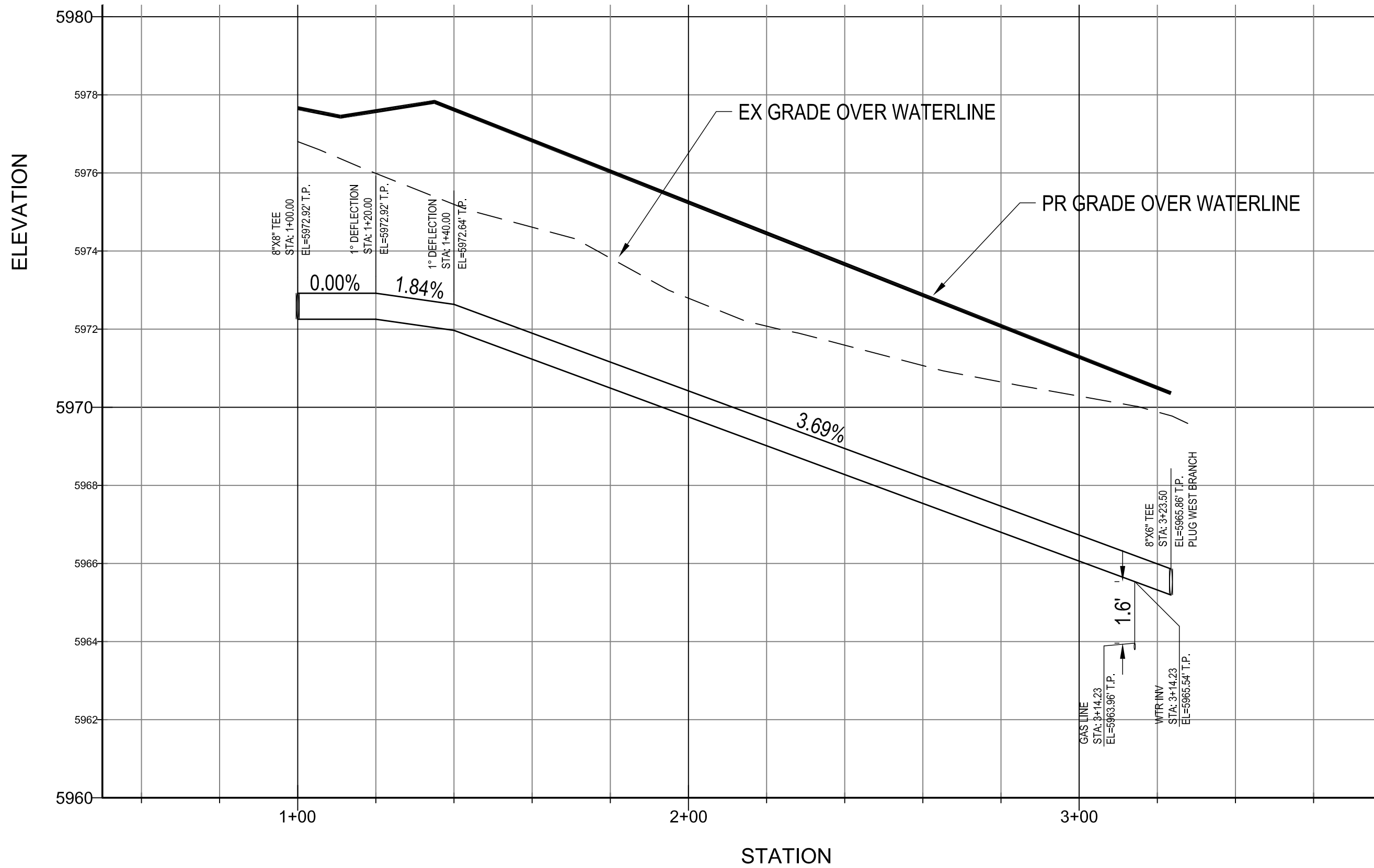
NO.	DATE	DESCRIPTION
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05/25/18	THIRD SUBMITTAL	
03/19/18	PWSD SUBMITTAL	
02/28/18	SECOND SUBMITTAL	
10/24/17	INITIAL SUBMITTAL	

REVISIONS

\\PDG-NAS\PUBLIC\PROJECTS\2015-015 PARKER AND STROH\DWG\WATER AND SANITARY PLANS\2015-015 CDS -WATER PLANDWG 8/31/2018 3:09 PM

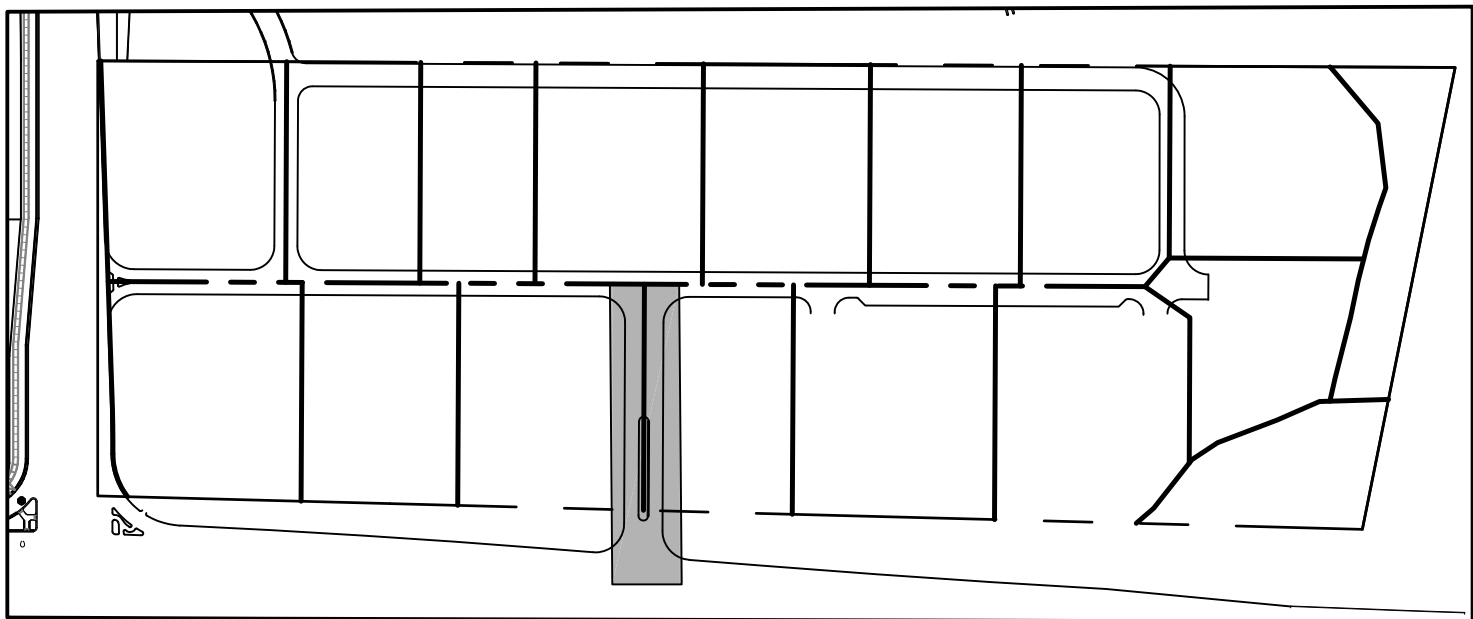
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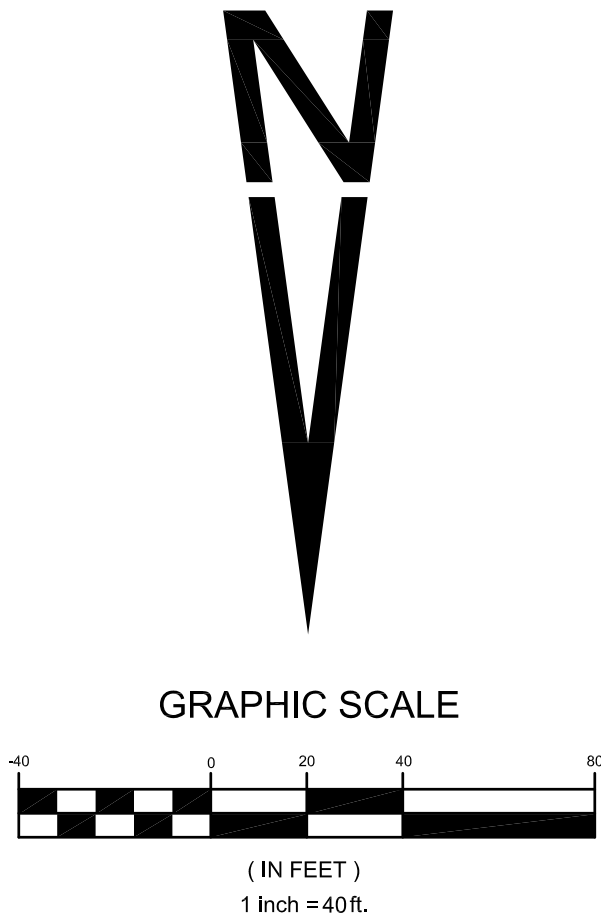


#	ITEM	STA.	OS (FT.)
53	8\"X8\" TEE W/ KB	0+00.00	0.00
55	8\"X6\" TEE W/ KB	3+23.50	0.00
56	PR. 6\" HYDRANT ASSY. / 18.50LF 6\" DIP / 6\" G.V.	3+23.50	18.50 L
57	PR. 8\" G.V.	1+18.00	0.00

WARNING
HIGH-PRESSURE PIPELINE(S)
EXCAVATION AND / OR CONSTRUCTION PROHIBITED
WITHOUT COMPLIANCE WITH STATE ONE-CALL, AND
WITHOUT WRITTEN PERMISSION FROM
MAGELLAN PIPELINE COMPANY.



KEY MAP



BENCHMARK
BENCHMARK: DOUGLAS COUNTY SURVEY CONTROL MONUMENT
TT15A - 3\"/>

WATER PLAN & PROFILE

PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

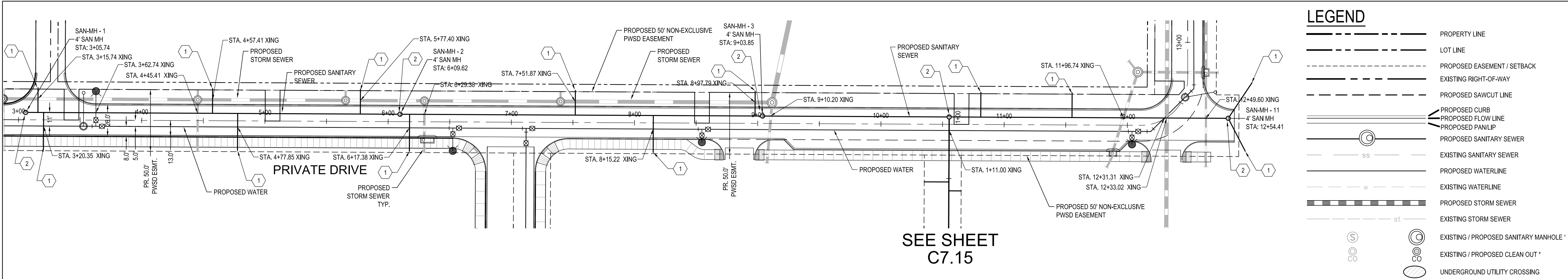
date: 10/01/17

SHEET
C7.13

PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

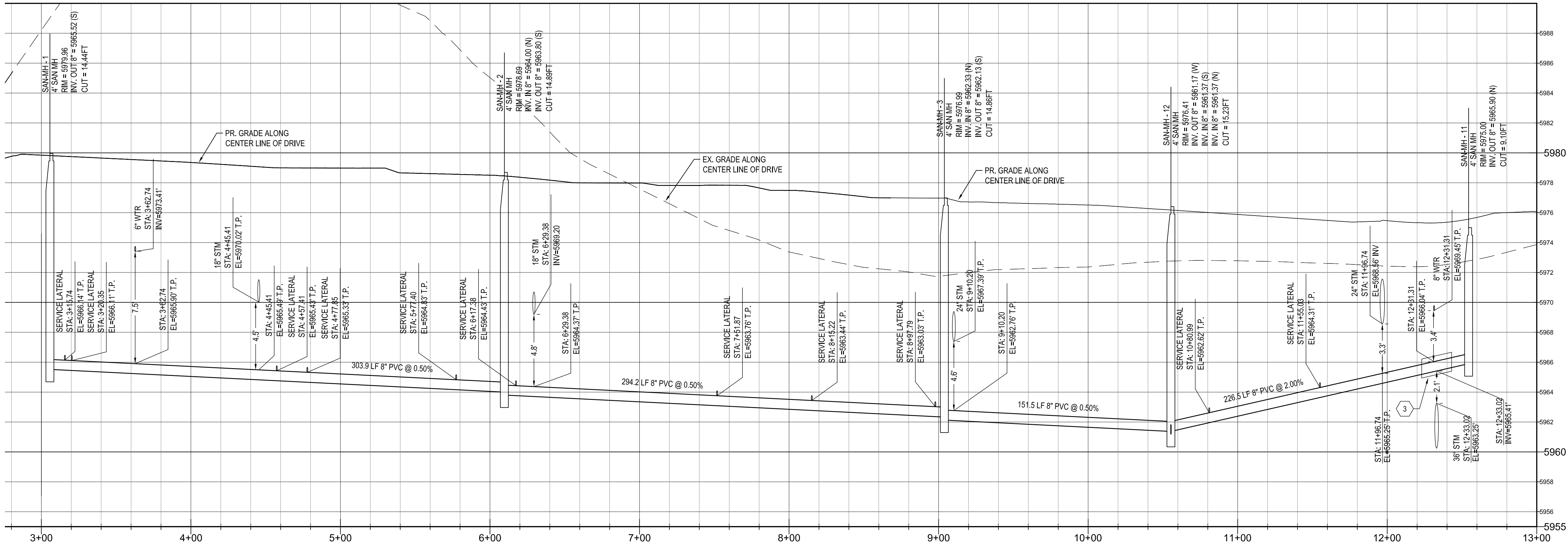
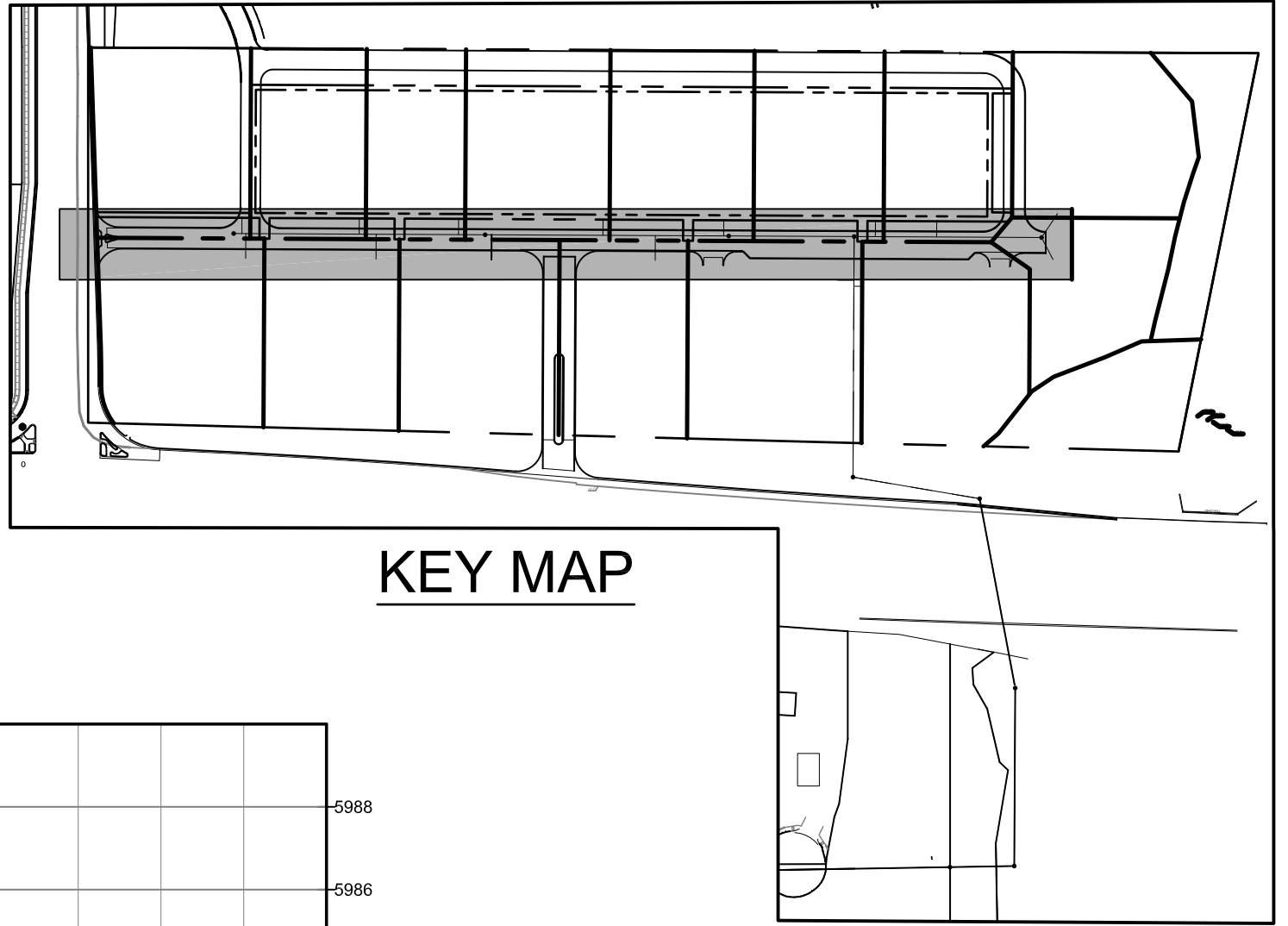
DATE	DESCRIPTION	REVISIONS
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05/25/18	THIRD SUBMITTAL	
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PERCEPTION
DESIGN GROUP, INC.
9801 SOUTH PIERCE STREET SUITE 315, LITTLETON, CO 80120 303-223-8888
WWW.PERCEPTIONDESIGNGROUP.COM



CONSTRUCTION NOTES

- INSTALL 6" SERVICE LATERAL AT 2.0%. EXTEND BEYOND PAVEMENT, CAP AND MARK FOR FUTURE CONNECTION.
- CONSTRUCT 4" DIAMETER CONCRETE MANHOLE.
- CONCRETE ENCASE SANITARY SEWER 10' EACH SIDE OF CROSSING. SEE DETAIL S4.8 ON SHEET C7.91.

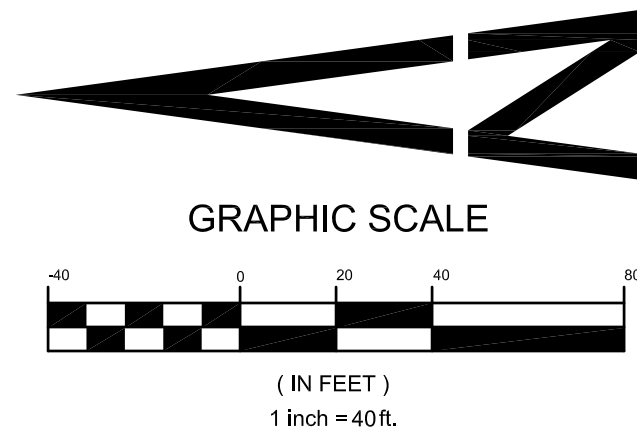


ABBREVIATIONS

ASSY	ASSEMBLY
BP	BOTTOM OF PIPE
ESMT	EASEMENT
ELEV	ELEVATION
EX	EXISTING
DIP	DUCTILE IRON PIPE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FV	FUTURE
GV	GATE VALVE
INV	INVERT
KB	KICK BLOCK / THRUST BLOCK
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
TP	TOP OF PIPE
WI	WITH

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HIGHWAY 83) ELEVATION: 5970.79 FEET (NAVD 1988 DATUM)

SANITARY PLAN & PROFILE

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

C7.14

PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

REVISIONS	DATE	DESCRIPTION
08/31/18	FOURTH SUBMITTAL	
05/25/18	THIRD SUBMITTAL	
03/19/18	PWSD SUBMITTAL	
02/28/18	SECOND SUBMITTAL	
10/24/17	INITIAL SUBMITTAL	

PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

SHEET

INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT OFFICE AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTE 1 ABOVE AND A RE-INSPECTION FEE CHARGED.
3. SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
4. THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
5. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
6. LOTS WITHOUT BUILDING ADDRESSES OR LOT AND BLOCK NUMBERS BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
7. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

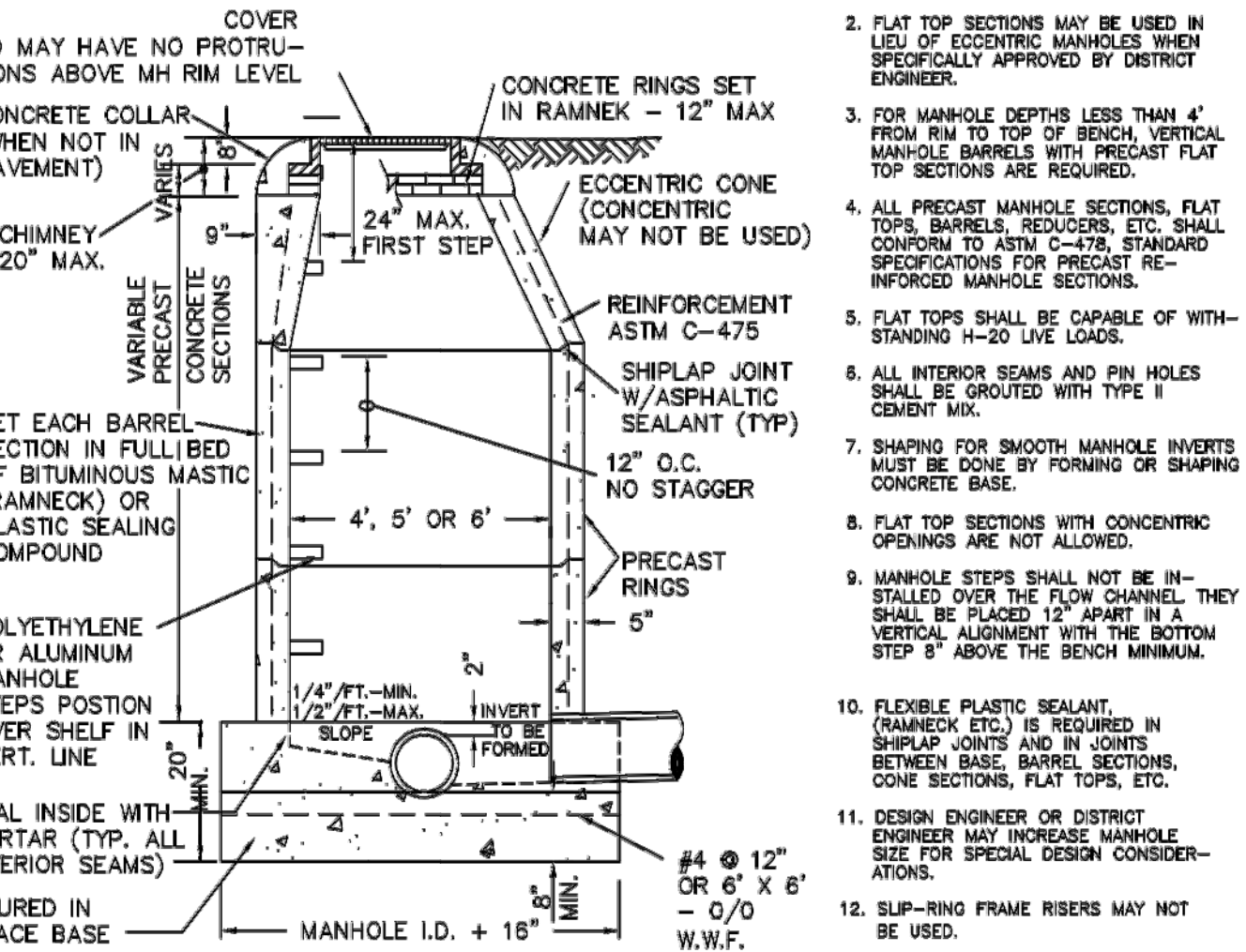
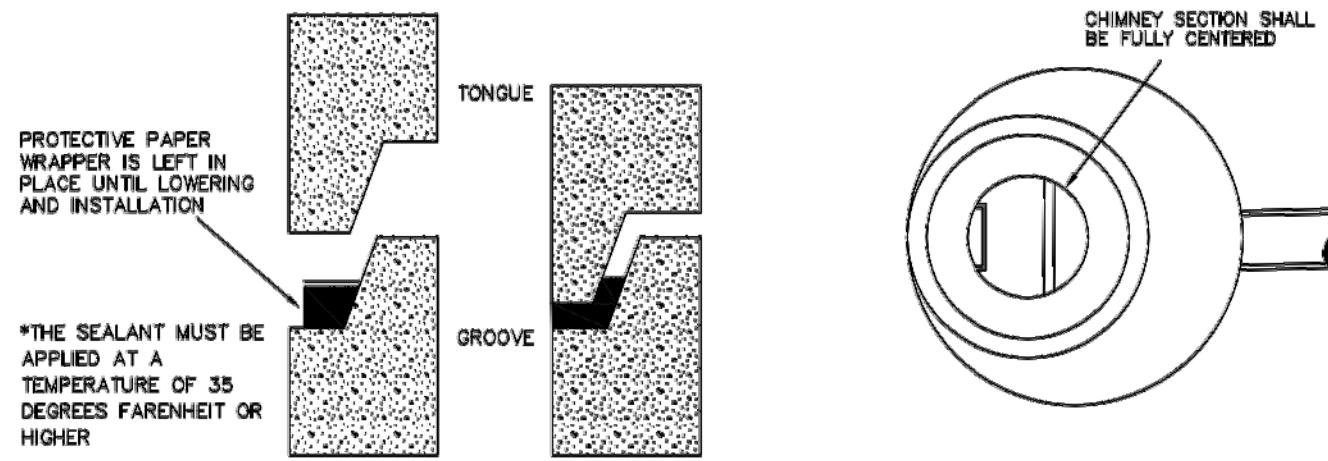
SEWER

1. ACCEPTABLE PIPE MATERIALS ARE TO BE SDR 35 PVC PIPE, ABS PIPE AND PVC SCHD 40 PIPE. APPROVED BEDDING IS TO BE SQUEEGEE.
2. NO-HUB CLAMPS SHALL BE USED TO JOIN 2 MALE PIPE ENDS WITH A MAXIMUM DEFLECTION OF 3".
3. MINIMUM GRADE SHALL BE 2%.
4. INSTALLATION SHALL INCLUDE NO MORE THAN 3 BENDS. 90° BENDS ARE NOT ALLOWED. SOLVENT WELDED PIPE WILL NOT BE ALLOWED.
5. CLEAN-OUTS SHALL BE INSTALLED AT 100' INTERVALS AND EVERY CHANGE IN DIRECTION. CLEAN-OUTS ARE NOT REQUIRED FOR SERVICES LESS THAN 100' UNLESS THERE ARE CHANGES IN DIRECTION. PROVIDE DUAL CLEAN-OUT WITHIN 5 FEET OF FOUNDATION.
6. STRESSING OF THE PIPE BETWEEN FITTINGS WILL NOT BE ALLOWED.
7. SEWER SERVICE LINE SHALL NOT BE LOCATED UNDER CONCRETE SURFACE.
8. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SEWER SERVICE
"V" FOR WATER SERVICES

PARKER WATER & SANITATION DISTRICT	
DISTRICT POLICIES & INSTALLATION NOTES FOR SEWER SERVICES	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	01/02 10/18 1/09 1/18
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET S1.1

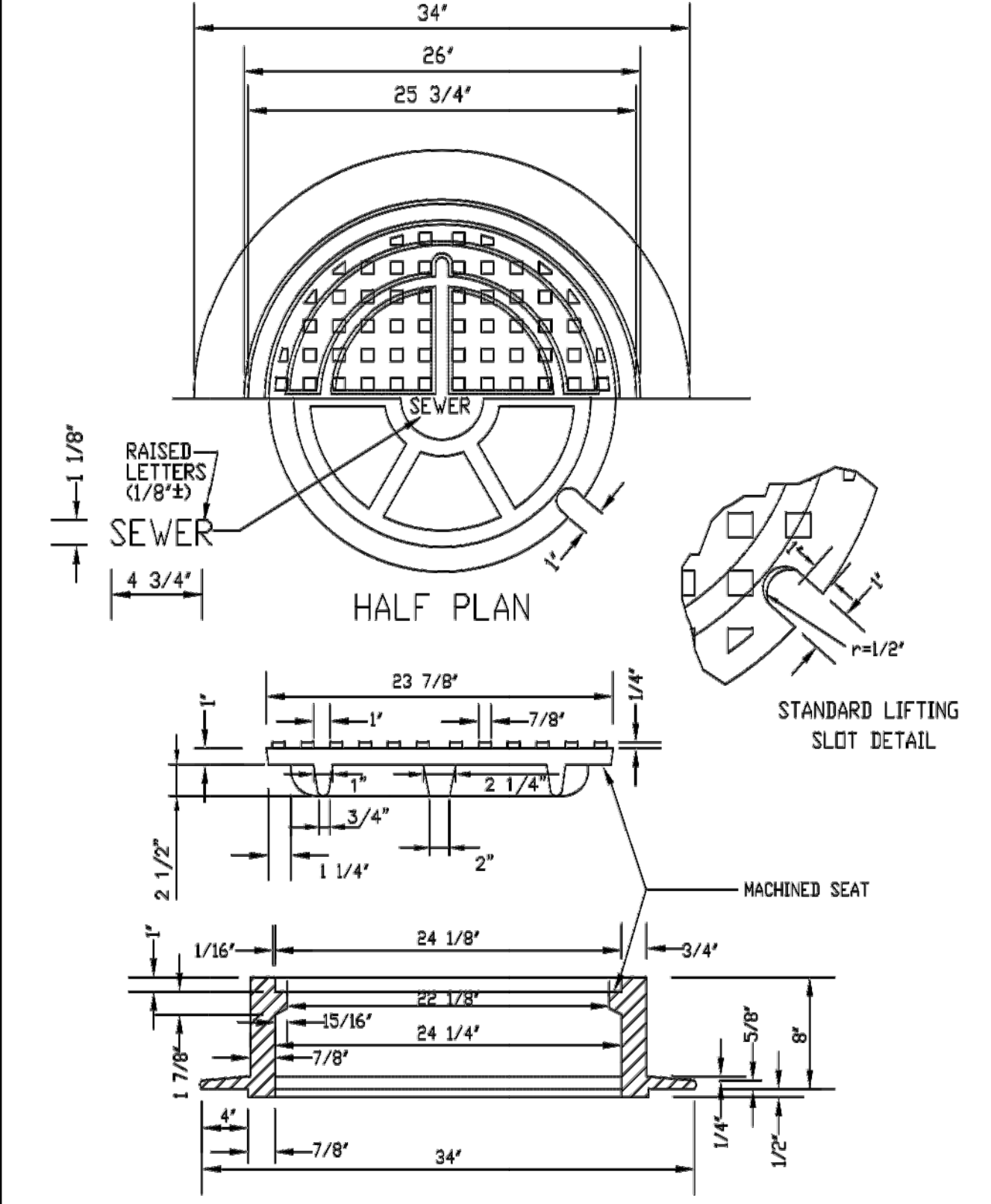


PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

PARKER WATER & SANITATION DISTRICT	
PARKER MANHOLE ECCENTRIC CONE	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01 10/18 01/02 1/08 1/18
DIRECTOR OF ENGINEERING	

2016 REVISION

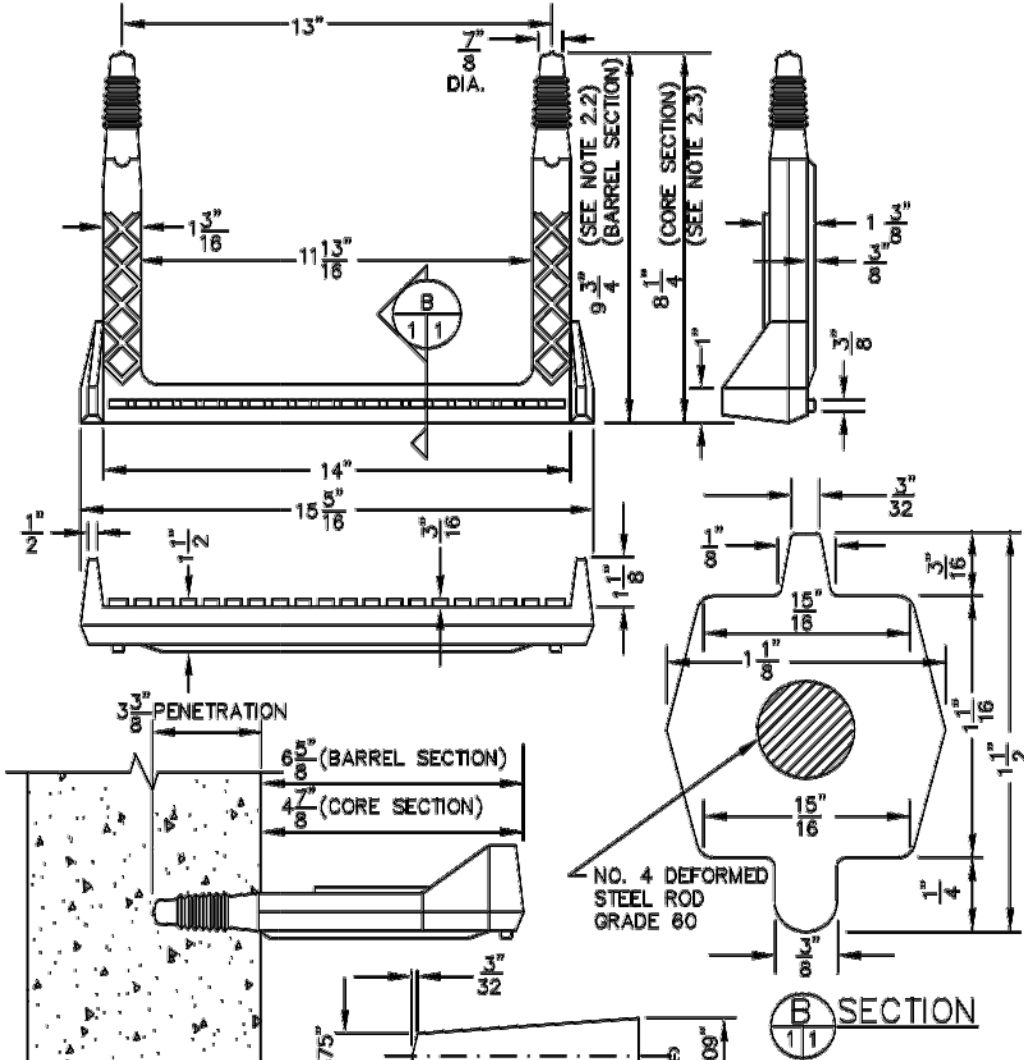
SHEET S3.1



PARKER WATER & SANITATION DISTRICT	
24" DIAMETER RING AND COVER	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	01/18 10/18
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET S3.9



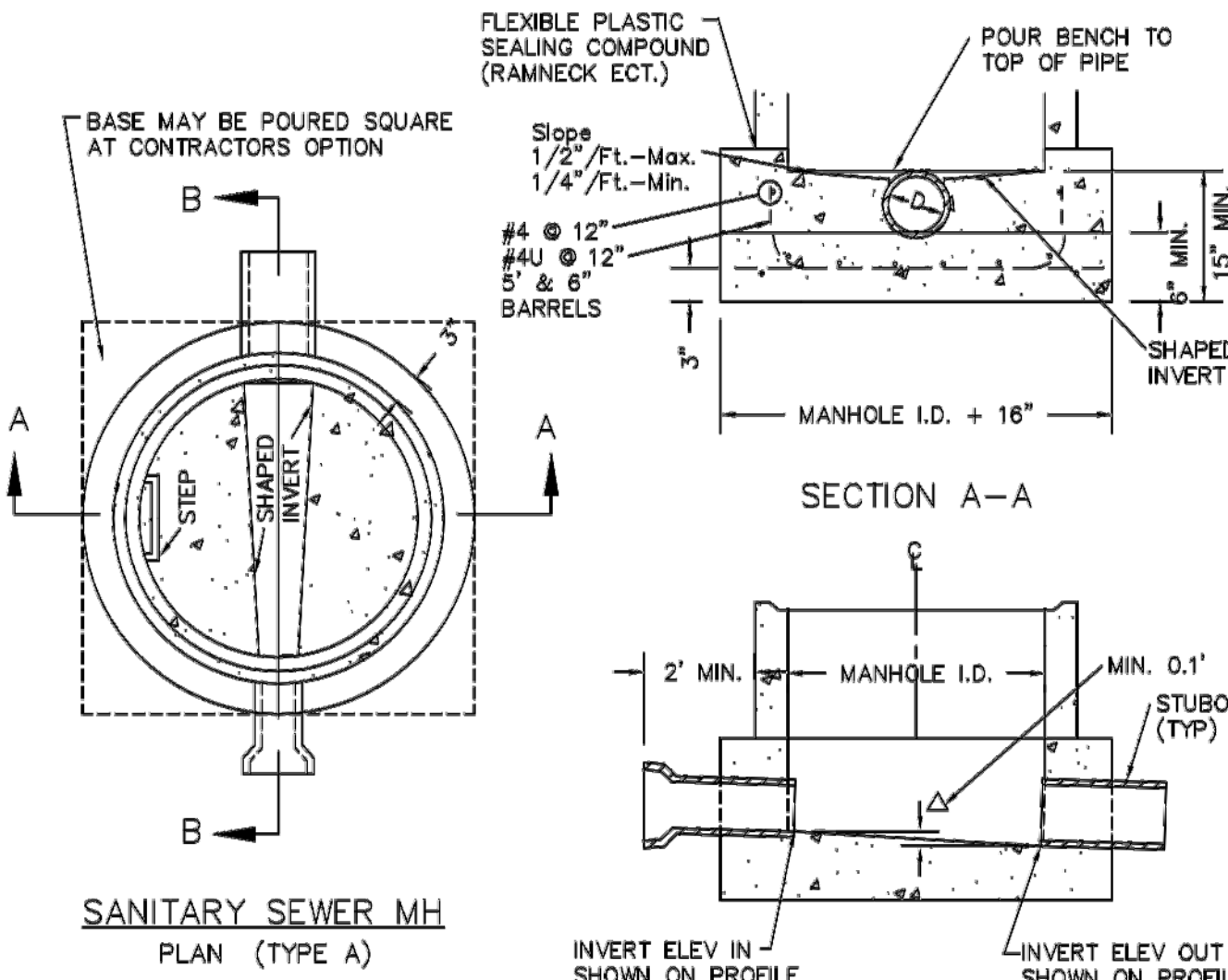
- NOTES:
- 2.1 ASTM SPECIFICATIONS:
a) ASTM C-478
b) ASTM A-815 GRADE 60 (STEEL ROD)
c) ASTM A-1136-99, TYPE II, GRADE 1600S (POLYPROPYLENE)
 - 2.2 STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURE SHALL HAVE A 6-3/4" INCH LEG AND SHALL PROJECT FROM THE WALL 6-5/8" INCHES.
 - 2.3 STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8-1/4" INCH LEG AND SHALL PROJECT FROM THE WALL 4-7/8" INCHES.
 - 2.4 ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3-3/8" INCHES.
 - 2.5 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN.
 - 2.6 INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 P.S.I. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
 - 2.7 STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD EXCLUSIVELY FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.

POLYPROPYLENE REINFORCED PLASTIC STEP

PARKER WATER & SANITATION DISTRICT	
POLYPROPYLENE REINFORCED PLASTIC MANHOLE STEP	
SCALE: NONE	DATE: 2/00
APPROVED: PVR	01/18 10/18
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET S3.11

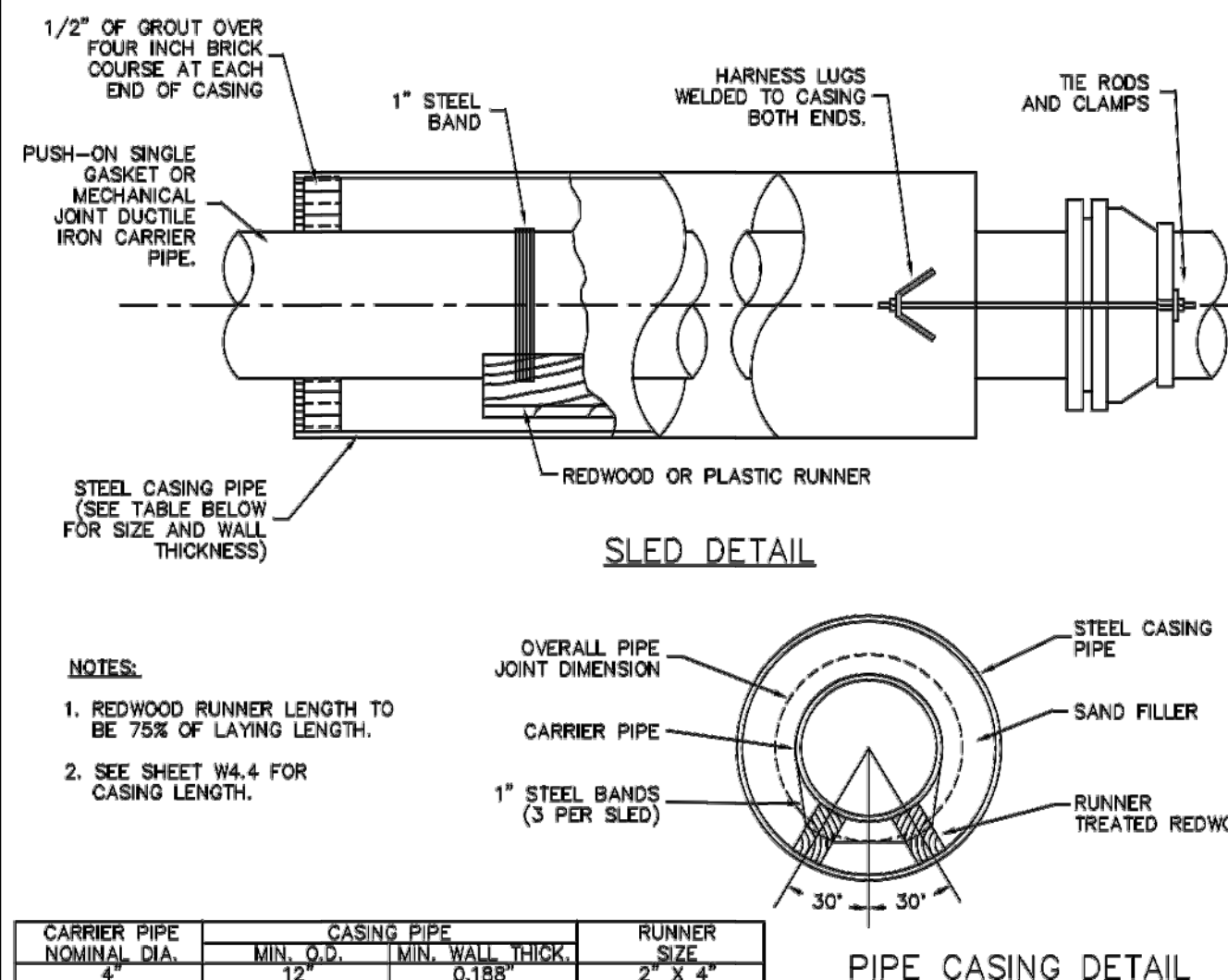


- NOTES:
1. Manhole barrel min. thickness to be 5".
 2. Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
 3. The manhole steps shall conform to District Standards and Specifications.
 4. Precast sections to conform to A.S.T.M C-478.
 5. All dead-end manholes, that call out a stub out, shall be thru at 0.40% minimum slope.
 6. Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
 7. Reinforcing in base required for manhole.
 8. Slope of bench = 1/2"/Ft.-Max. 1/4"/Ft.-Min.
 9. Δ = invert drop thru MH (if Δ > 18", outside drop MH required). Min. 0.1' for all straight through MH and 0.2' for all angled MH.

PARKER WATER & SANITATION DISTRICT	
CAST-IN-PLACE MANHOLE BASE DETAIL	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	01/02 01/18 10/18
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET S3.5



PARKER WATER & SANITATION DISTRICT	
BORE CASING DETAILS	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	2/00 1/18 10/18
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W4.5

SANITARY SEWER DETAILS

PARKER POINT
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINT FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

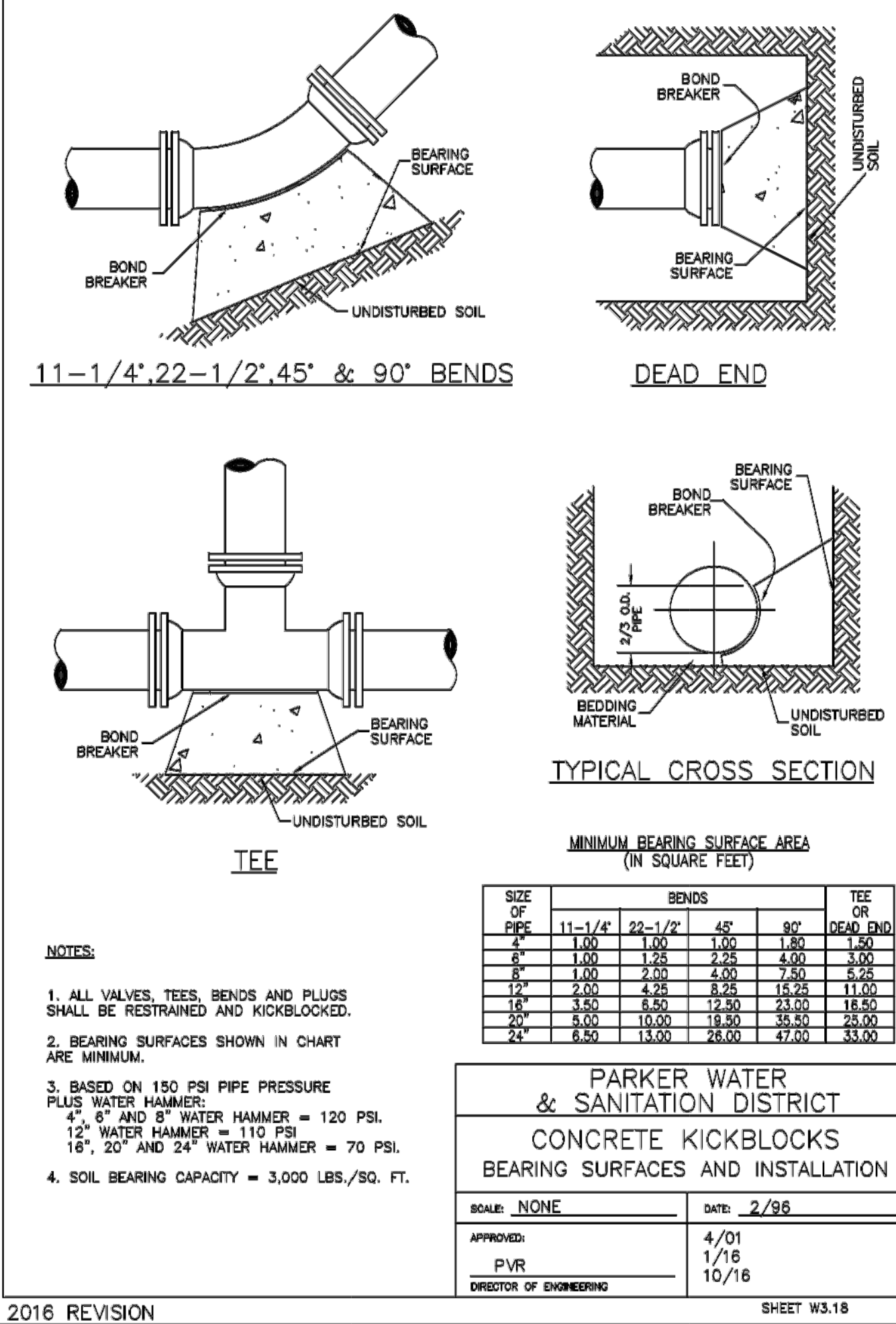
C7.90

PREPARED UNDER THE DIRECT
SUPERVISION OF
JERRY W. DAVIDSON, P.E.
COLORADO REG # 30226
FOR AND ON BEHALF OF
PERCEPTION DESIGN GROUP, INC.

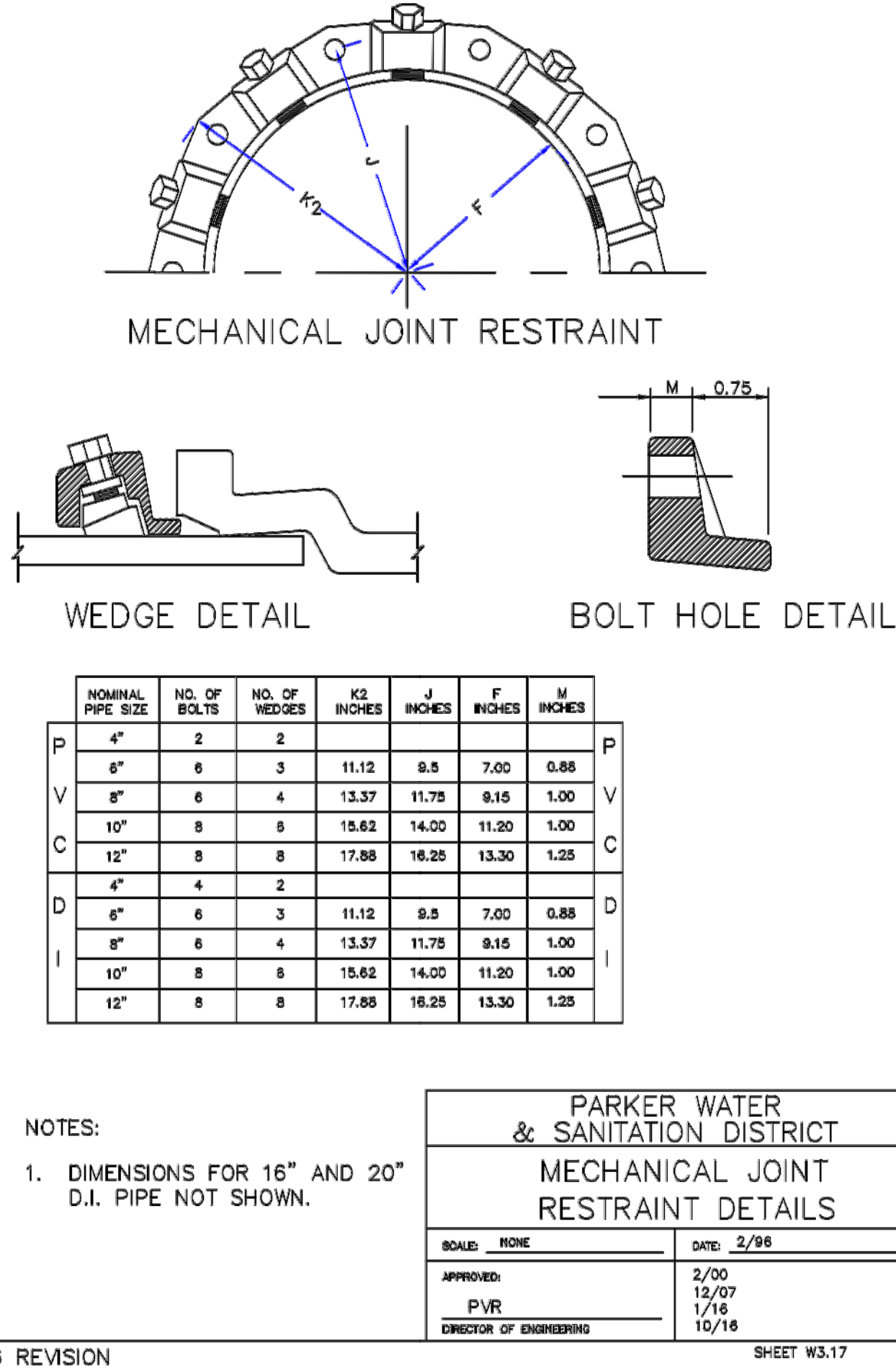
REVISIONS	DATE	DESCRIPTION
08/31/18	FOURTH SUBMITTAL	
05/25/18	THIRD SUBMITTAL	
03/19/18	PMSD SUBMITTAL	
02/28/18	SECOND SUBMITTAL	
10/24/17	INITIAL SUBMITTAL	

PERCEPTION
DESIGN GROUP, INC.
1601 SOUTH PIERCE STREET SUITE 315, LITTLETON, CO 80120 303.259.8888
WWW.PERCEPTIONDESIGNGROUP.COM

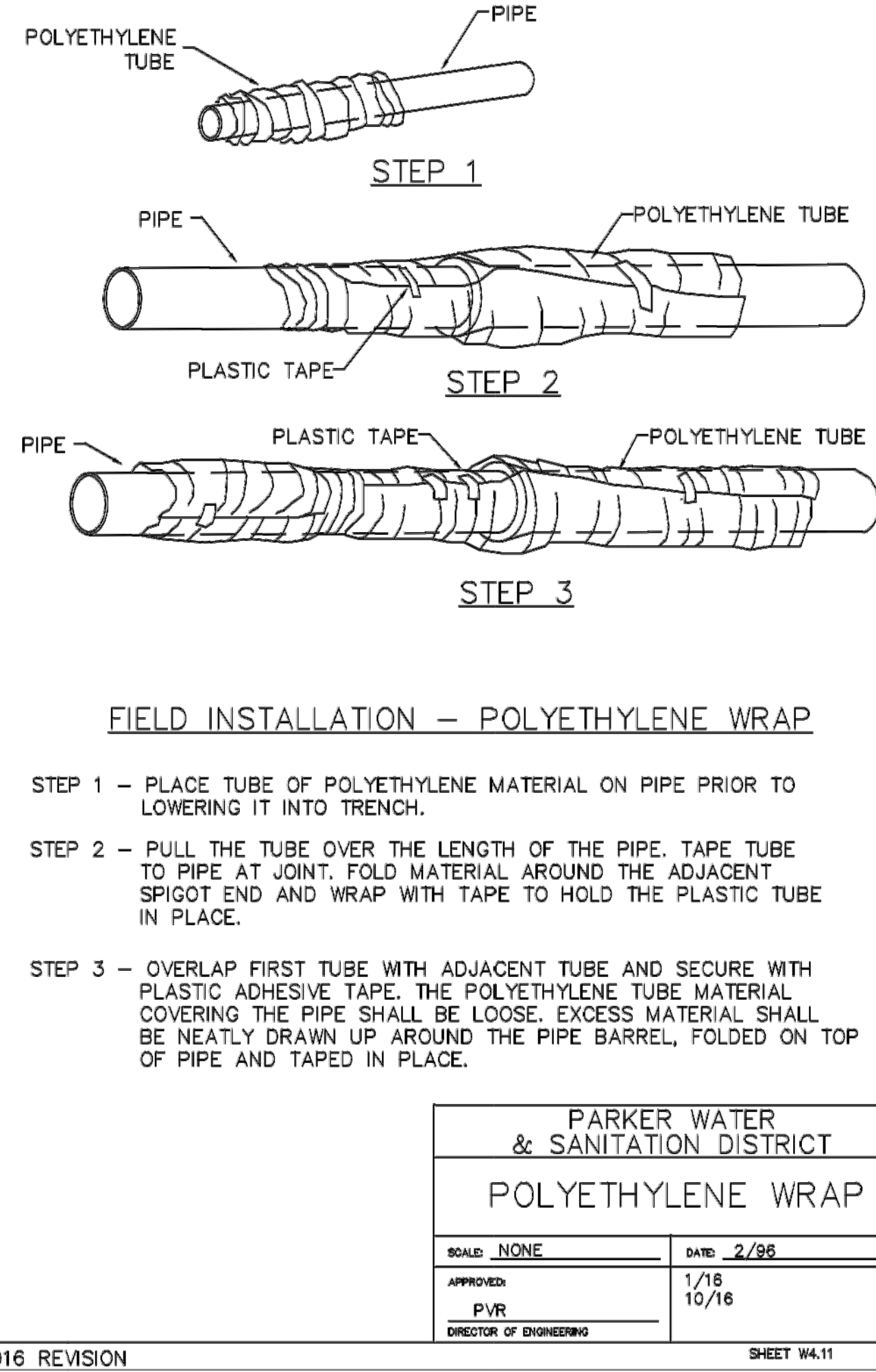
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2016 REVISION



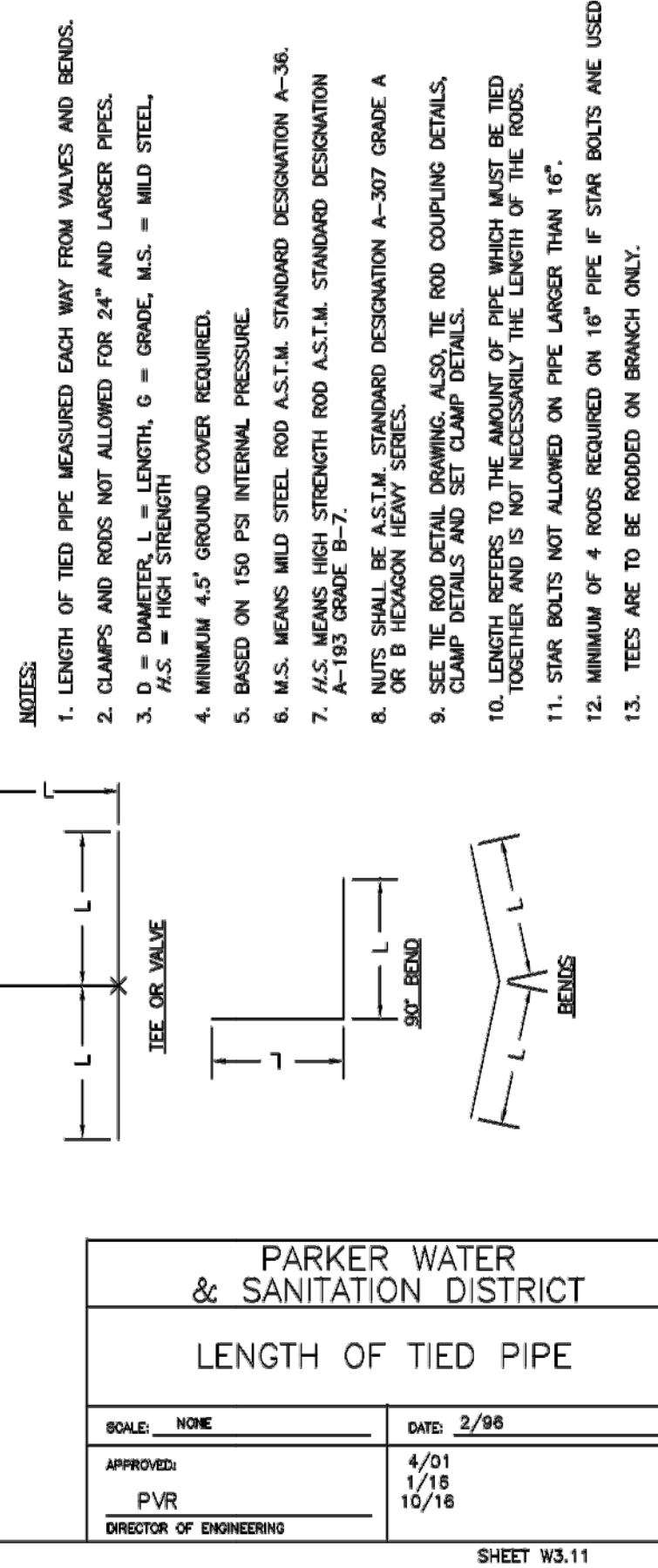
2016 REVISION



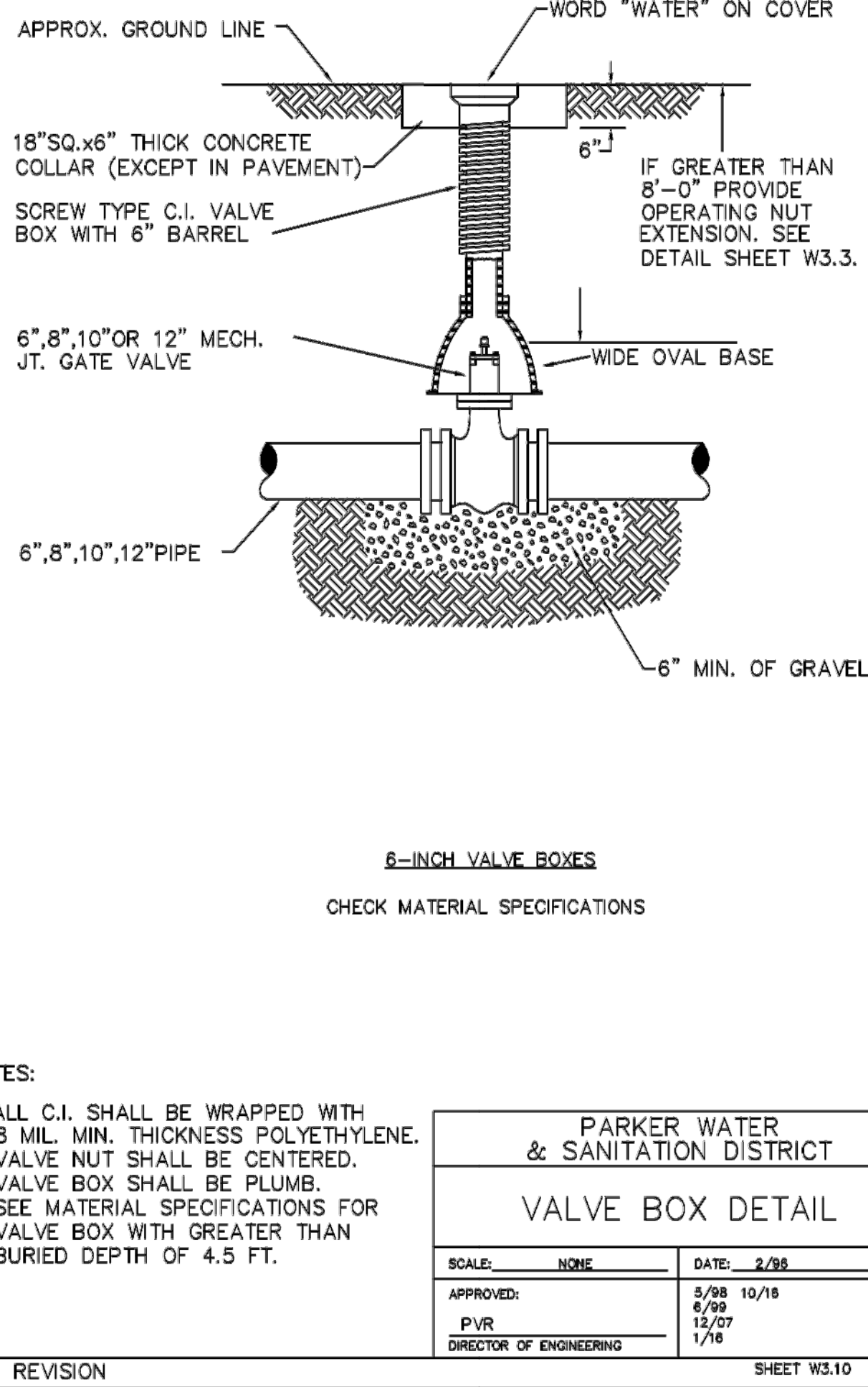
2016 REVISION

LENGTH OF TIED PIPE

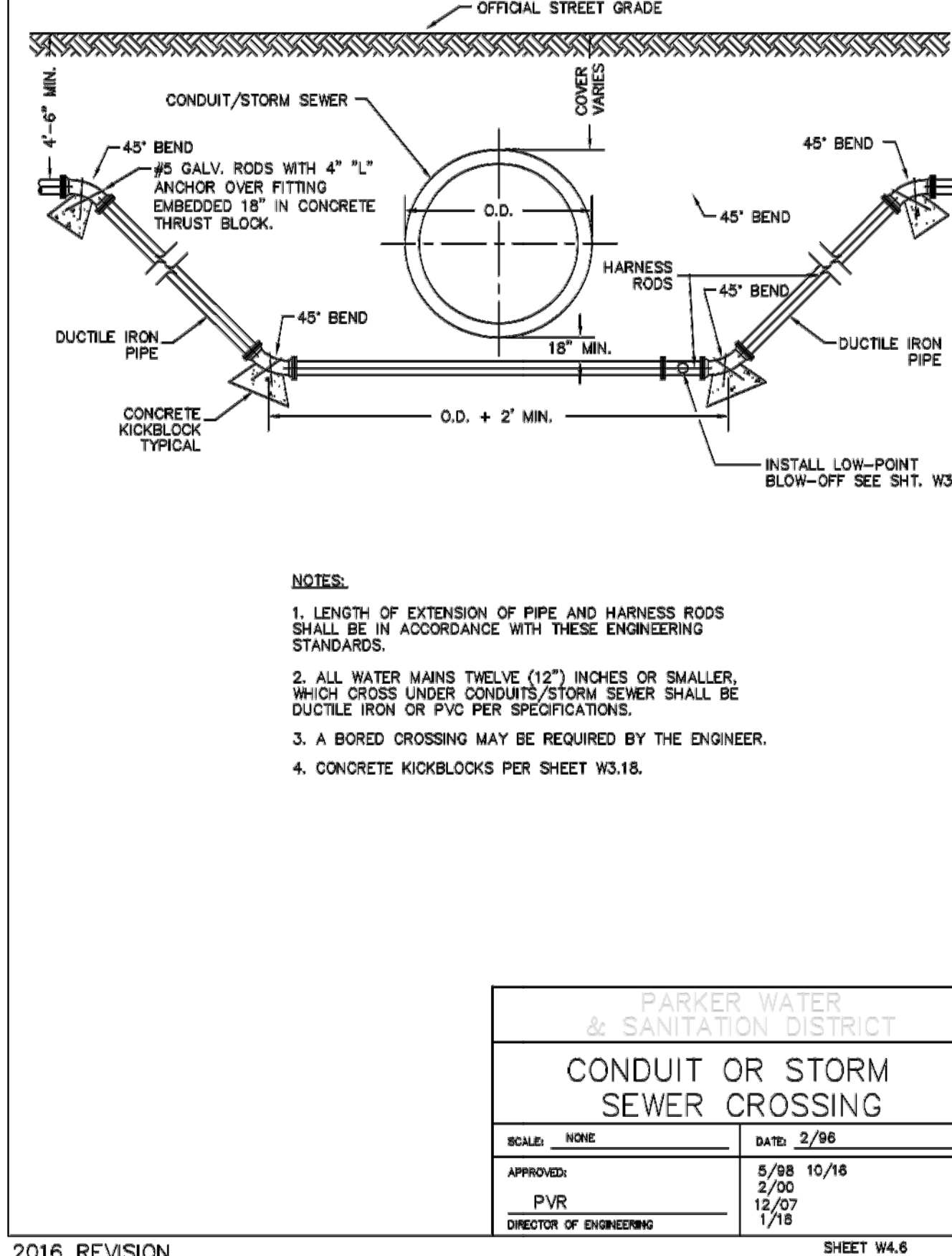
PIPE SIZE	4"	6"	8"	12"	16"	20"	24"
TEE OR VALVE	D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G	D L G D L G D L G D L G D L G D L G
45° BEND	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.	3/4" 6.0' M.S. 3/4" 20.0' M.S. 3/4" 40.0' M.S. 3/4" 60.0' M.S. 1" 80.0' A.S. 1" 105.0' A.S.
22-1/2° BEND	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.	3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S. 3/4" 1.0' M.S.
11-1/4° BEND	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.	3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S. 3/4" 0.0' M.S.



2016 REVISION

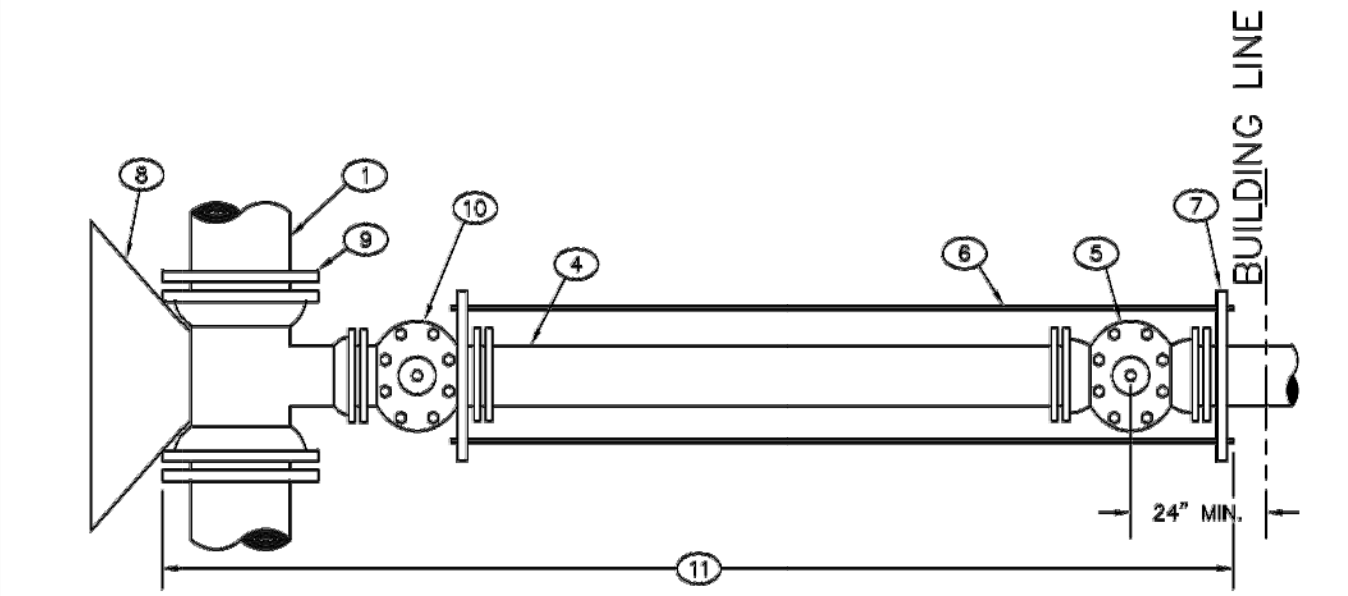


2016 REVISION

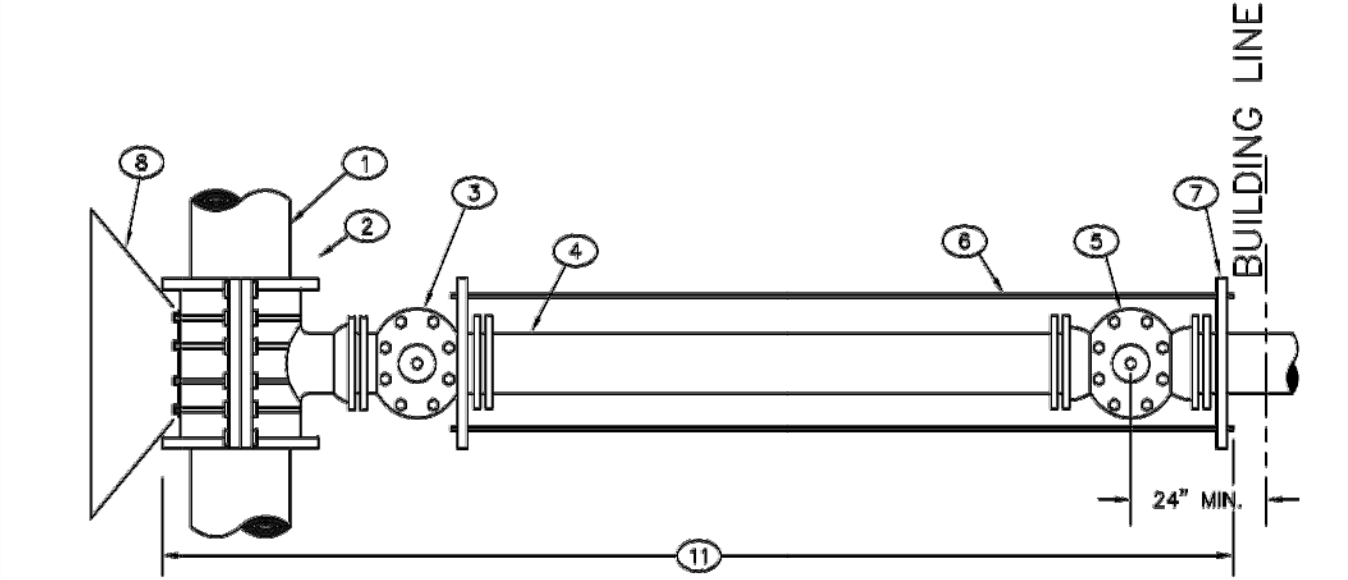


2016 REVISION

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FIRE SPRINKLER OR DOMESTIC CONNECTION WITH MAIN EXTENSION



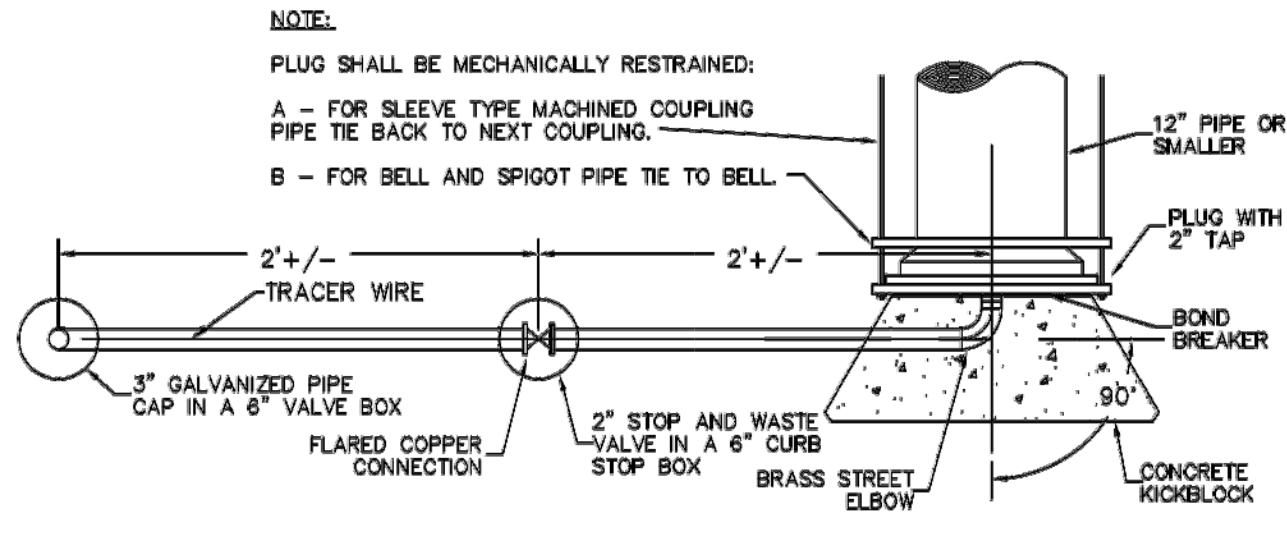
FIRE SPRINKLER OR DOMESTIC CONNECTION

- 1 EXISTING MAIN
- 2 TAPPING SLEEVE
- 3 TAPPING VALVE
- 4 DOUBLE SPIGOT PIPE
- 5 PROPERTY LINE VALVE
- 6 TIE RODS
- 7 PIPE CLAMP
- 8 CONCRETE KICKBLOCK
- 9 M.J. ANCHORING TEE (SWIVEL TEE)
- 10 M.J. VALVE
- 11 POLYETHYLENE WRAPPED

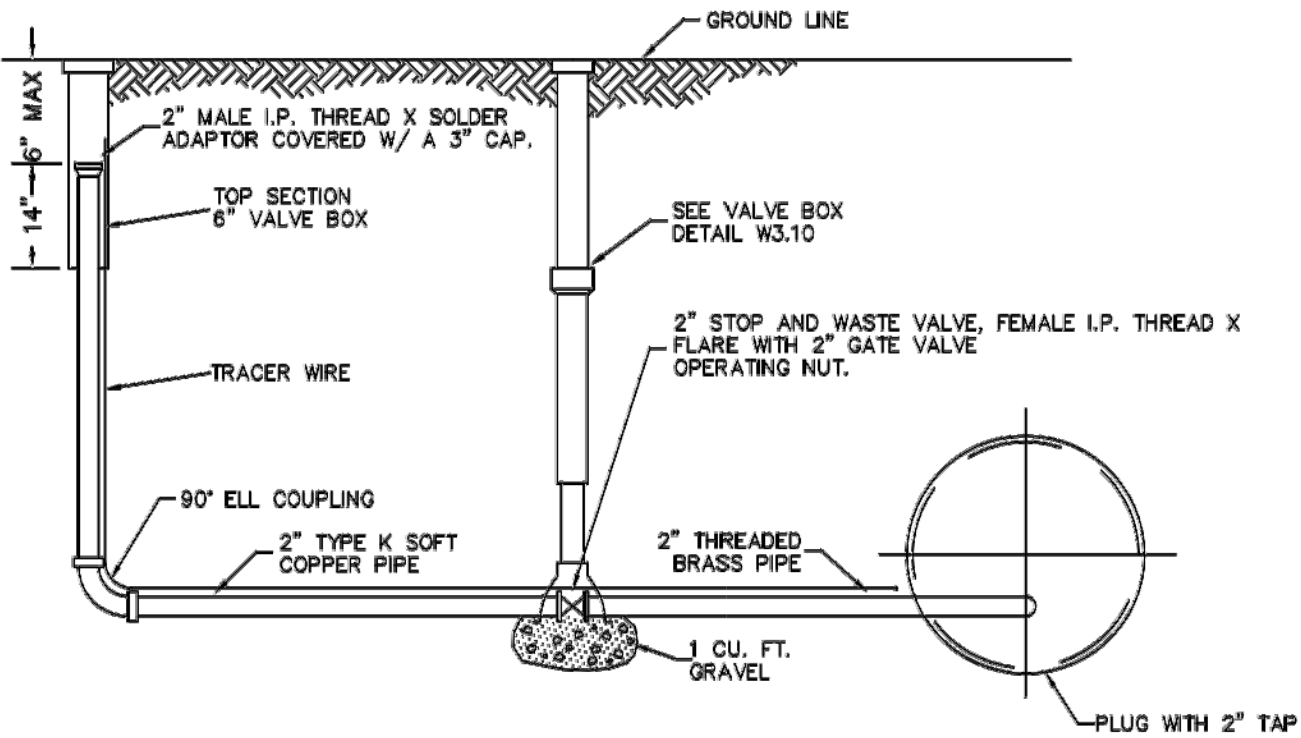
PARKER WATER & SANITATION DISTRICT	
3" AND LARGER DOMESTIC AND FIRE SPRINKLER CONNECTIONS	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W5.18



PLAN

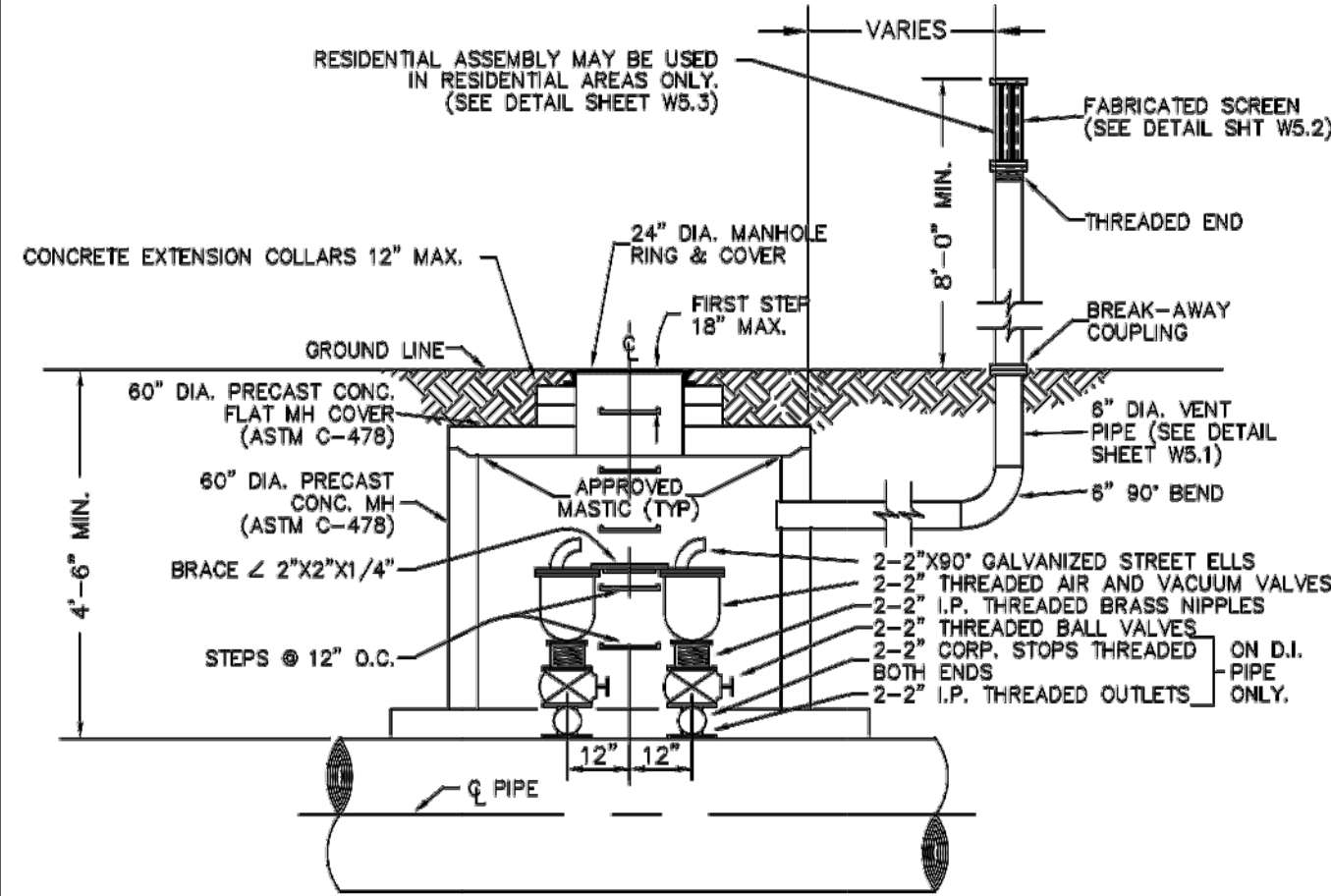


ELEVATION

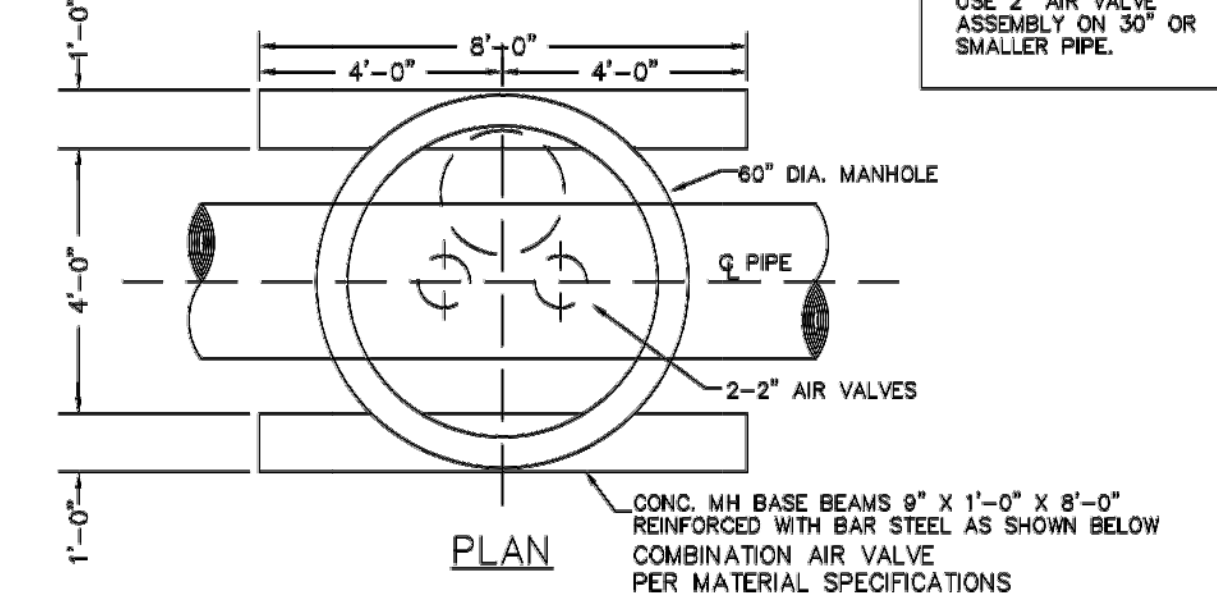
PARKER WATER & SANITATION DISTRICT	
BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01 1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

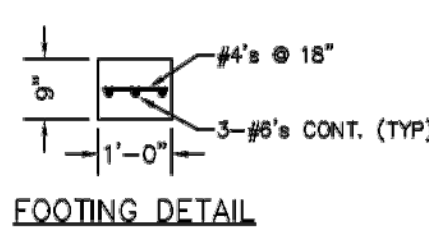
SHEET W3.7



ELEVATION



PLAN

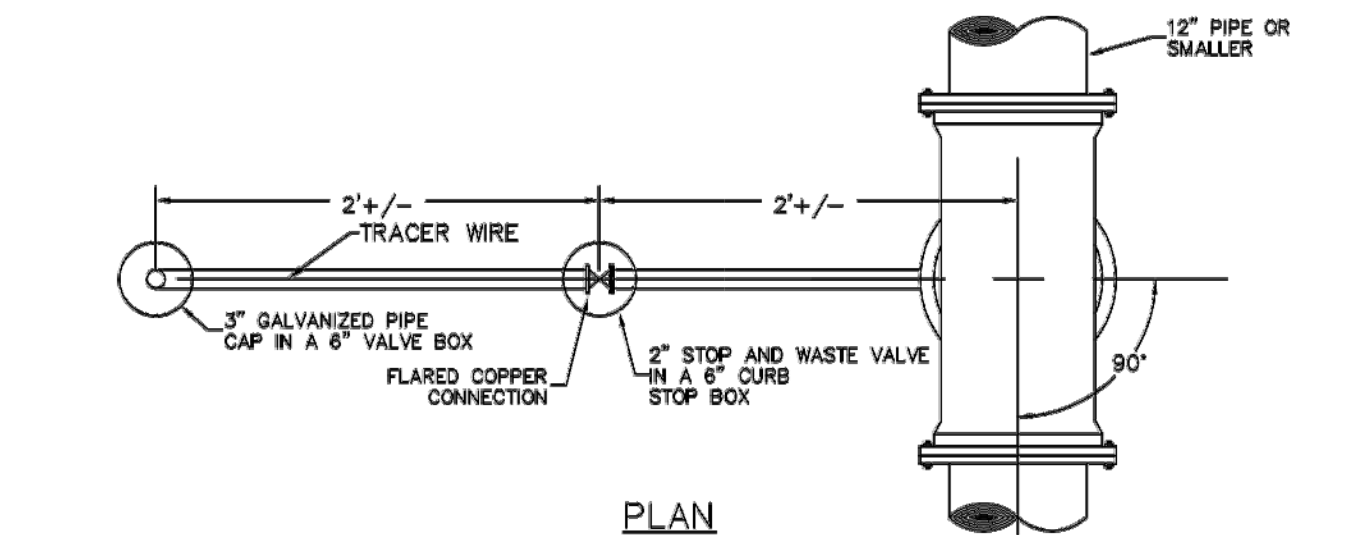


FOOTING DETAIL

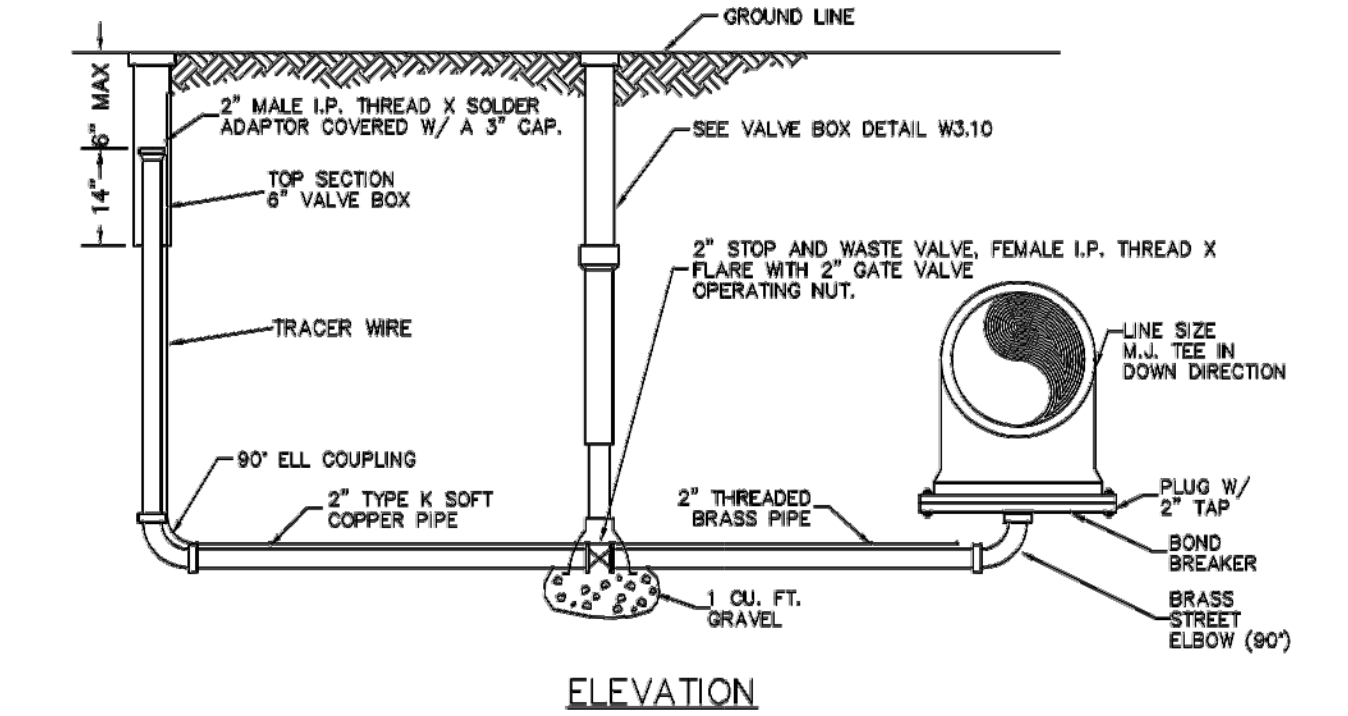
PARKER WATER & SANITATION DISTRICT	
AIR AND VACUUM VALVE INSTALLATION	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01 1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W3.6



PLAN



ELEVATION

NOTE: PLUG SHALL BE MECHANICALLY
RESTRAINED.

PARKER WATER & SANITATION DISTRICT	
LOW POINT BLOW-OFF WITH SAND TRAP	
SCALE: NONE	DATE: 2/98
APPROVED: PVR	4/01 1/16 10/16
DIRECTOR OF ENGINEERING	

2016 REVISION

SHEET W3.8

NO.	DATE	DESCRIPTION
08/31/18	FOURTH SUBMITTAL	
05/25/18	THIRD SUBMITTAL	
03/19/18	PMSD SUBMITTAL	
02/28/18	SECOND SUBMITTAL	
10/24/17	INITIAL SUBMITTAL	

WATER DETAILS

PARKER POINTE
LOTS 1 THRU 15 AND TRACTS A AND B, PARKER POINTE FILING NO. 1
SOUTHEAST CORNER PARKER ROAD AND STROH ROAD
PARKER, COLORADO

design by: JWD
approved by: JWD
project no.: 2015-015

date: 10/01/17

SHEET

C7.94