



Know what's below. Call before you dig.

PARKER AND PINE FILING NO. 1 LOT 2

MURPHY OIL USA, INC.

A PORTION OF LOT 1, BLOCK 3 PARKER AUTO PLAZA FILING NO. 1
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE CONSTRUCTION PLANS PARKER WATER AND SANITATION CONSTRUCTIONS PLANS

PROJECT CONTACTS:

RECORD OWNER
EVT PARKER COLORADO, LLC
2710 E CAMELBACK ROAD, SUITE 210
PHOENIX, AZ 85016
TEL: (602) 468-6100
CONTACT: RYAN AMATO

DEVELOPER/APPLICANT
MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730
CONTACT: GARY HEGENER

ENGINEER/CONSULTANT
GALLOWAY & COMPANY, INC.
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, CO 80111
TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: JIM ERWIN-SVORODA, P.E.
EMAIL: JMERWIN@GALLOWAYUS.COM

LANDSCAPE/CONSULTANT
GALLOWAY & COMPANY, INC.
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, CO 80111
TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: TIM NELSON, RLA, ASLA, COP
EMAIL: TIMNELSON@GALLOWAYUS.COM

SURVEYOR
GALLOWAY & COMPANY, INC.
1755 TELESTAR DR., SUITE 107
COLORADO SPRINGS, CO 80920
TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: BRIAN DENNIS, PLS
EMAIL: BRANDENIS@GALLOWAYUS.COM

MUNICIPAL & UTILITY CONTACTS:

ENGINEERING
TOWN OF PARKER - ENGINEERING
20120 E. MAIN STREET
PARKER, CO 80138
TEL: (303) 805-3169
CONTACT: RANDY CAPRA

STORM SEWER
TOWN OF PARKER - PUBLIC WORKS
20120 E. MAIN STREET
PARKER, CO 80138
TEL: (303) 840-9546

FIRE
SOUTH METRO FIRE RESCUE AUTHORITY
9195 E. MINERAL AVE.
CENTENNIAL, CO 80112
TEL: (720) 989-2244
CONTACT: CHP KERKHOVE

WATER & SANITARY SEWER
PARKER WATER AND SANITATION DISTRICT
1800 E. WOODMAN DRIVE
PARKER, CO 80138
TEL: (303) 841-4627
CONTACT: DRAYTON SANDERSON

GAS
XCEL ENERGY
1800 PARKER STREET
DENVER, CO 80202
EMAIL: RON.H.JOHNSON@XCELENERGY.COM
CONTACT: RON JOHNSON

ELECTRIC
INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION
5496 NORTH USHER HIGHWAY 85
SEDALIA, CO 80135
TEL: (303) 688-3100
CONTACT: AMANDA STEINER

TELEVISION
COMCAST
1601 MILE HIGH STADIUM CIRCLE
DENVER, CO 80204
EMAIL: DEAN_FLENTHROP@CABLE.COMCAST.COM
CONTACT: DEAN FLENTHROP

TELEPHONE
CENTURYLINK
1801 CALIFORNIA STREET, SUITE 240
DENVER, CO 80202
CONTACT: IZZY MILLER
EMAIL: IZZYMILLER@CENTURYLINK.COM



VICINITY MAP
(NOT TO SCALE)

PWSD GENERAL UTILITY 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 PARKER WATER AND SANITATION DISTRICT PAGE 17 DISTRICT PLAN APPROVAL PROCEDURES 2017 REVISION CONACTION 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: "X" FOR SANITARY SERVICE SEWERS "Y" 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.

PWSD SANITARY SEWER NOTES

- ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE PARKER WATER AND SANITATION DISTRICT SPECIFICATION.
- 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 PARKER WATER AND SANITATION DISTRICT STANDARD AND SPECIFICATIONS. USE RUBBER GASKETS FOR PVC ENCASEMENT.
- SEWER RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. RING AND COVER SHALL BE SET IN CENTERED CONCRETE RINGS WITH RAM-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 UNDERDRAN 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.
- 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.
- ALL PIPE LENGTHS ARE APPROXIMATE.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS WHICH HAVE BEEN APPROVED BY THE PARKER WATER AND SANITATION DISTRICT AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PARKER WATER AND SANITATION DISTRICT SPECIFICATION MANUAL.
- ALL MANHOLES SHALL HAVE SHAPED INVERTS.
- ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE PARKER WATER AND SANITATION DISTRICT STANDARDS AND SPECIFICATIONS PRIOR TO ACCEPTANCE OR ANY CONNECTION TO AN EXISTING SEWER LINE.
- PRIOR TO START WORK WHERE SEWER MAIN TO BE INSTALLED INTO EXISTING DISTRICT 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 ACCEPTANCE BY THE DISTRICT. ITS PURPOSE SHALL BE TO PREVENT ANY MUD, WATER OR OTHER MATERIALS FROM ENTERING THE LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUMPING AND CLEANING THESE MANHOLES AND REMOVING THE PLUG WHEN SO INSTRUCTED BY THE DISTRICT.
- PRIOR TO PROBATIONARY ACCEPTANCE WALK-THROUGH, THE CLIENT SHALL JET CLEAN THE ENTIRE SANITARY SEWER SYSTEM AND PUMP OUT AT THE PLUGGED MANHOLE.

FIRE NOTES

- IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN DRIVE LINES FOR EMERGENCY VEHICLE INGRESS AND EGRESS, INCLUDING SNOW REMOVAL.
- EMERGENCY VEHICLE ACCESS ROAD IS REQUIRED TO ALLOW ACCESS WITHIN 150' OF ALL EXTERIOR OF THE BUILDING BY AN APPROVED ROUTE.
- FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRES APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES. ACCESS ROAD SHALL BE EITHER CONCRETE, ASPHALT, OR OTHER APPROVED ALTERNATIVE MATERIAL ACCOMPANIED WITH AN ENGINEER'S STAMP STATING THE MATERIAL WILL MEET A 75,000 LBS IMPOSED LOAD.
- FIRE HYDRANT(S) ARE REQUIRED TO BE INSTALLED MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF VERTICAL CONSTRUCTION.
- NO PARKING FIRE LANE SIGNS ARE REQUIRED IN AREAS THAT MEET THE FOLLOWING CRITERIA AND IN AREAS DESIGNATED BY THE FIRE PREVENTION BUREAU. SIGNS SHALL BE POSTED ON BOTH SIDES OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE, ROADWAYS OR DRIVEWAYS LESS THAN 26 FEET WIDE. SIGNS SHALL BE POSTED ON ONE SIDE ONLY OF FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE, ROADWAYS OR DRIVEWAYS BETWEEN 26 FEET WIDE AND 32 FEET WIDE. NO SIGNAGE IS REQUIRED FOR ACCESS ROADWAY FIRE DEPARTMENT ACCESS ROADWAYS, PUBLIC OR PRIVATE ROADWAYS OR DRIVEWAYS EXCEEDING 32 FEET WIDE.
- WHEN FIRE APPARATUS ACCESS ROADS OR 4 WATER SUPPLY FOR FIRE PROTECTION IS REQUIRED TO BE INSTALLED, SUCH PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO BUILDING CONSTRUCTION GOING VERTICAL.

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C-3.0	UTILITY COVER SHEET
C-3.1	OVERALL UTILITY PLAN
C-3.2	UTILITY DETAILS
C-3.3	UTILITY DETAILS
C-3.4	UTILITY DETAILS
C-3.5	UTILITY DETAILS
C-3.6	UTILITY DETAILS
C-3.7	STORM AND SANITARY PLAN
C-3.8	STORM PLAN & PROFILE
IR-1.1	IRRIGATION PLAN
IR-1.2	IRRIGATION DETAILS
IR-1.3	IRRIGATION NOTES & DETAILS

PWSD WATER MAIN 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, FLUGS, REDUCERS, AND FIRE HYDRANTS TO BE RIGID OR MEGA-LOGGED. 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 ANWA 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 PROPOSED 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 PROCEEDING WITH 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 ACCEPTANCE 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.

PWSD DISTRICT ACCEPTANCE NOTES

- UPON COMPLETION OF SANITARY SEWER AND WATER CONSTRUCTION AND TESTING, THE DEVELOPER OR CONTRACTOR SHALL CONTACT THE DISTRICT FOR PROBATIONARY ACCEPTANCE INSPECTION. A PUNCHLIST WILL BE PROVIDED THE DEVELOPER AND CONTRACTOR UPON COMPLETION OF THE INITIAL WALK-THROUGH AND PROBATIONARY ACCEPTANCE WILL BE ISSUED FOLLOWING COMPLETION AND ACCEPTANCE OF THE WORK OUTLINED IN THE PUNCHLIST.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF THE LINES FOR UP TO 1-YEAR 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.
- THE DATE OF FINAL ACCEPTANCE WILL BE INDICATED IN THE CONDITIONS OF THE PROBATIONARY ACCEPTANCE LETTER. THE DEVELOPER SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT FOR FINAL INSPECTION AND FINAL ACCEPTANCE.

MATERIALS SPECIFICATIONS	
MATERIAL SPECIFICATION	DESCRIPTION
MS-W1, MS-S1, MS-S4	PIPE TYPE - PVC
MS-W2	PIPE TYPE - DUCTILE IRON
MS-W7	TAPPING SLEEVES
MS-W3, MS-S5	FITTINGS
MS-W4, MS-W5, MS-W6, MS-W8, MS-W9	VALVES, AIR RELEASE VALVES
MS-W7, MS-W8	WATER METER
MS-S2	PRECAST MANHOLES
MS-S3	CASTINGS

BENCHMARK

ELEVATIONS SHOWN ARE BASED ON CONTROL PROVIDED BY MARTIN & MARTIN. VERTICAL DATUM IS APPROXIMATELY 2.6± FEET BELOW NAVD 88.

SITE BENCHMARKS:

- SITE BENCHMARK #1: #5 REBAR WITH 2" ALUMINUM; CAP STAMPED "PLS 36062"; EL = 5634.76
 SITE BENCHMARK #2: #5 REBAR WITH 2" ALUMINUM; CAP STAMPED "PLS 36062"; EL = 5640.22

BASIS OF BEARING

BEARINGS ARE BASED ON A PORTION OF THE EAST LINE OF LOT 1, BLOCK 3, PARKER AUTO PLAZA FILING NO. 1 AND BEING A PORTION OF THE WEST RIGHT OF WAY LINE OF PARKER ROAD, THE SOUTH END OF THE LINE BEING THE SOUTHEAST CORNER OF SAID LOT 1, BLOCK 3, MONUMENTED ON THE NORTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 24960 AND ON THE SOUTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 23524, AND IS CONSIDERED TO BEAR S2356°20'E, A DISTANCE OF 553.91 FEET.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



Know what's below. Call before you dig.

THE DISTRICT INSPECTOR MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL PARKER WATER AND SANITATION DISTRICT AT 303-841-4627. THE DISTRICT WILL PROVIDE PERIODIC INSPECTIONS OF THE WORK. 24 HOUR NOTICE TO THE INSPECTOR IS REQUIRED FOR SCHEDULING INSPECTIONS.

ANY WORK ACCOMPLISHED WITHOUT THE APPROVAL OF THE INSPECTOR WILL BE SUBJECT TO REJECTION.

REVIEWED FOR CONFORMANCE TO PARKER WATER AND SANITATION DISTRICT STANDARDS.

BY: _____ (DISTRICT REPRESENTATIVE)

DATE: _____

APPROVED FOR CONSTRUCTION:
PARKER WATER AND SANITATION DISTRICT

BY: _____ (DISTRICT ENGINEER)

DATE: _____

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS 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 _____

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 REVIEWS, GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE _____

SHEET NO. C-3.0

UTILITY COVER SHEET
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER
COLORADO

Galloway
6162 S. Willow Drive, Suite 320
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730
MURPHY USA

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.

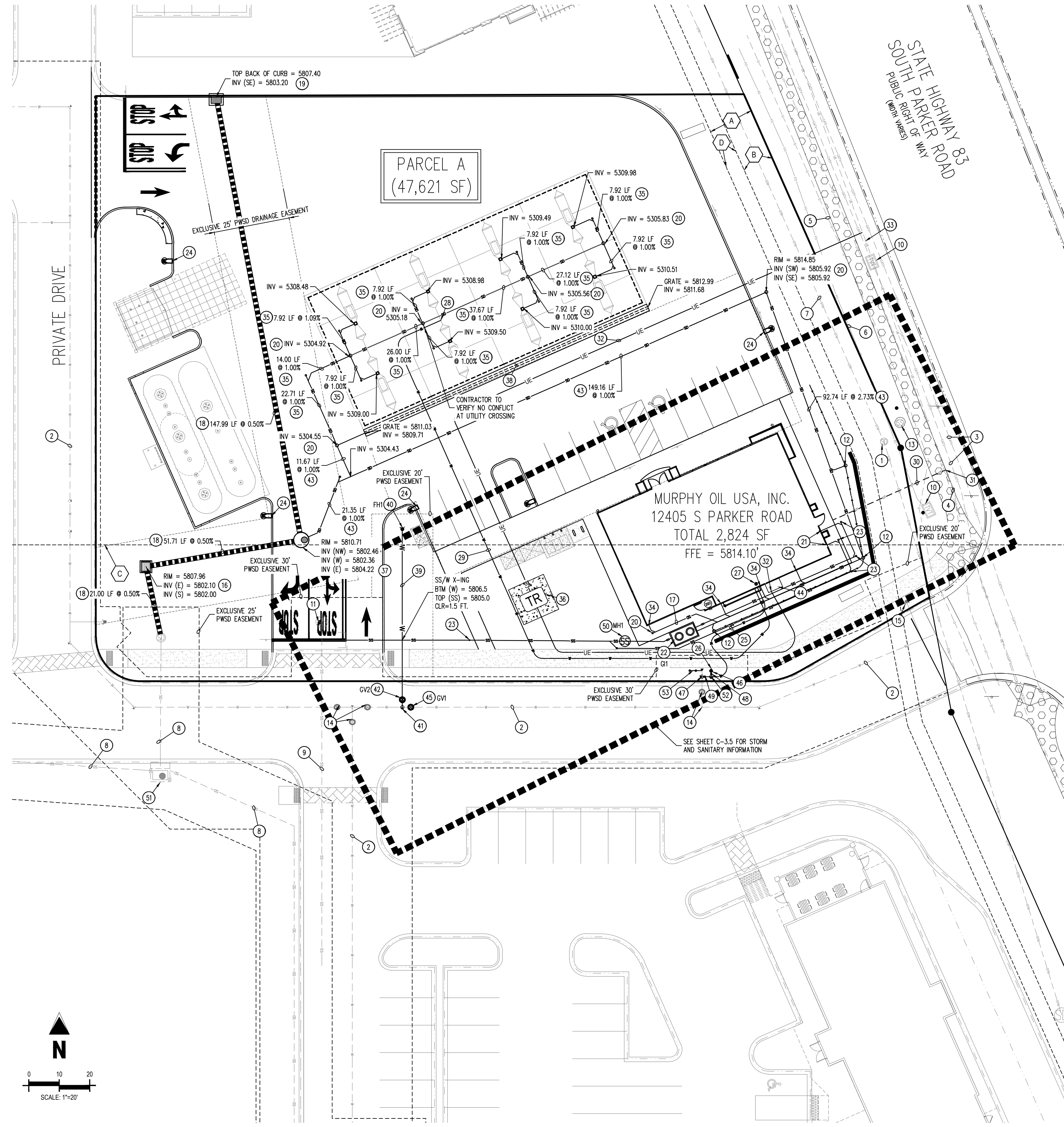
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO. C-3.1



SCHEDULE

- EXISTING STORM SEWER MANHOLE TO REMAIN
- EXISTING WATER LINE INSTALLED BY DEVELOPER
- EXISTING CATV LINE TO REMAIN
- EXISTING UNDERGROUND TELEPHONE LINE TO REMAIN
- EXISTING GAS LINE TO REMAIN
- EXISTING FIBER OPTIC LINE TO REMAIN
- EXISTING STORM LINE TO REMAIN
- EXISTING STORM LINE INSTALLED BY DEVELOPER
- EXISTING SANITARY SEWER LINE INSTALLED BY DEVELOPER
- EXISTING COMMUNICATION BOX/Vault TO REMAIN
- EXISTING SANITARY SEWER MANHOLE PROVIDED BY DEVELOPER
- PROPOSED YARD DRAIN WITH OPEN GRATE TOP
- EXISTING SANITARY SEWER MANHOLE TO REMAIN
- EXISTING 8" WATER STUB AND VALVE INSTALLED BY DEVELOPER
- EXISTING FIRE HYDRANT TO REMAIN
- PROPOSED CDOT TYPE C INLET
- PROPOSED 4" STORM SEWER LINE
- PROPOSED 18" STORM SEWER LINE
- PROPOSED CDOT TYPE 13 INLET
- PROPOSED STORM CLEANOUT
- PROPOSED 4" SANITARY SEWER SERVICE LINE
- PROPOSED 1,000 GALLON GREASE INTERCEPTOR
- PROPOSED SANITARY SEWER CLEANOUT (TYP)
- PROPOSED SITE LIGHT
- PROPOSED 1 1/2" DOMESTIC WATER SERVICE LINE TO BUILDING
- PROPOSED 3/4" IRRIGATION LINE
- PROPOSED 1 1/2" INTERIOR SET WATER METER AND BACKFLOW
- PROPOSED FREEZELESS HOSE BIBB AT PUMP ISLAND (3/4" SCH. 40 PVC)
- PROPOSED 3/4" WATER LINE TO CANOPY (TO BE CONNECTED AFTER METER)
- PROPOSED UNDERGROUND TELEPHONE LINE. PLACE HAND HOLES AS NEEDED.
- CONNECTION TO EXISTING TELEPHONE LINE TO BE COORDINATED WITH TELEPHONE COMPANY.
- PROPOSED UNDERGROUND ELECTRICAL LINE.
- CONNECTION TO EXISTING ELECTRICAL LINE TO BE COORDINATED WITH ELECTRICAL COMPANY.
- PROPOSED ROOF DRAIN CONNECTION
- PROPOSED 6" PVC ROOF DRAIN LINE
- PROPOSED TRANSFORMER ON CONCRETE PAD
- PROPOSED STORM MANHOLE
- PROPOSED 8" TRENCH DRAIN
- PROPOSED 6" PVC LATERAL FIRE HYDRANT
- PROPOSED FIRE HYDRANT FHH#1
- PROPOSED 8" x 6" TEAT
- PROPOSED 6" GATE VALVE GV#1
- PROPOSED 10" ROOF DRAIN
- PROPOSED ELECTRICAL CABINET PER AREA REQUIREMENTS
- PROPOSED 8" GATE VALVE GV#2
- PROPOSED 3/4" IRRIGATION METER
- EXISTING 8" STUB
- PROPOSED 3/4" CURB STOP
- PROPOSED 1 1/2" CURB STOP
- PROPOSED SANITARY SEWER SAMPLING MANHOLE (REFERENCE PWSO DETAIL S5.3)
- EXISTING STORM SEWER INLET INSTALLED BY DEVELOPER

UTILITY INSTALLATION RESPONSIBILITIES			
ELECTRIC RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
PERMITS AND INSPECTIONS	X		
OVERHEAD SERVICE DROP		X	
SERVICE CONNECTION		X	
SERVICE ENTRANCE CONDUIT, CONDUCTOR, AND OH POINT OF ATTACHMENT	X		
METER SOCKET	X		
BILLING METER		X	
LOAD SIDE CONDUIT AND CONDUCTOR	X		
ICE AND SNOW SHIELD, IF REQUIRED	X		
GROUND ROD(S)	X		

TELEPHONE RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
CONDUIT/TRENCH	X		
PULL STRING	X		

WATER RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP	X		
DOMESTIC METER		X	
DOMESTIC BFP	X		
IRRIGATION METER		X	
IRRIGATION BFP	X		
HYDRANT		X	

SEWER RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP	X		

FIRE CODE REVIEW BLOCK

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS 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.)

BASIS OF BEARING

BEARINGS ARE BASED ON A PORTION OF THE EAST LINE OF LOT 1, BLOCK 3, PARKER AUTO PLAZA FILING NO. 1 AND BEING A PORTION OF THE WEST RIGHT OF WAY LINE OF PARKER ROAD, THE SOUTH END OF THE LINE BEING THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK 3, MONUMENTED ON THE NORTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 24860 AND ON THE SOUTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 23524, AND IS CONSIDERED TO BEAR S23°56'20"E, A DISTANCE OF 553.91 FEET.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



Know what's below.
Call before you dig.

UTILITY INSTALLATION RESPONSIBILITIES

- WATER SERVICE:**
- CONTRACTOR TO PROVIDE AND INSTALL TAP AND BACKFLOW DEVICES.
 - CONTRACTOR TO PROVIDE AND INSTALL CONNECTION TO BACK SIDE OF METER, INCLUDING FITTINGS, VALVES, CURB STOP, CURB BOX, RPZ (ON IRRIGATION MAIN), WATER SERVICE MAINS, ETC. FOR IRRIGATION AND DOMESTIC SERVICE.
- SEWER SERVICE:**
- CONTRACTOR TO PROVIDE AND INSTALL GRAVITY SERVICE LINES, GREASE TRAP, CONNECTION TO EXISTING STUBOUT, ETC.
- ELECTRIC SERVICE:**
- ELECTRIC COMPANY PROVIDES AND INSTALLS POLE MOUNTED TRANSFORMER.
 - CONTRACTOR TO PROVIDE & INSTALL 1-1/2" SCH. 40 CONDUIT WITH PULL STRINGS AND SWEEPS (36" R.) ALONG USE ROUTE FROM TRANSFORMER POLE TO BUILDING ENTRY POINT.
 - CONTRACTOR TO PROVIDE AND INSTALL SECONDARY WIRE FROM TRANSFORMER TO BUILDING.
- TELEPHONE SERVICE:**
- TELEPHONE COMPANY WILL PROVIDE CONDUIT AND PULL WIRE TO BUILDING.
 - CONTRACTOR TO INSTALL 4" CONDUIT WITH PULL-STRING FROM BUILDING TO POINT OF CONNECTION.
 - URNS SHALL UTILIZE SWEEPING 90°S (36" R.).
 - CONTRACTOR TO PROVIDE #8 GROUND WIRE CONNECTED TO ELECTRICAL GROUND AND 4"x8" MOUNTED PLYWOOD BACKBOARD INSIDE BUILDING FOR TELEPHONE COMPANY TO MOUNT EQUIPMENT.
 - CONTACT ATT TWO (2) WEEKS PRIOR TO NEEDING SERVICE.

EASEMENT SCHEDULE

- (A) PERMANENT DRAINAGE EASEMENT (REC NO. 2004034896)
- (B) 10' UTILITY EASEMENT (REC NO. 2004113377)
- (C) EXCEPTION 12 & EXCEPTION 13 BOUNDARY (APPROXIMATE LOCATION) (BK 1227, PG 2338; BK 1284, PG 1957; BK 1290, PG 1455-1459)
- (D) ADDITIONAL 5' UTILITY EASEMENT BY DEVELOPER PER REFERRAL SP18-047

LEGEND

- PROPERTY LINE
- EASEMENT BOUNDARY LINE
- EXISTING ELECTRICAL LINE
- EXISTING FIBER OPTIC LINE
- EXISTING CABLE LINE
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED TELEPHONE LINE
- PROPOSED STORM SEWER LINE
- PROPOSED WATER LINE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER BEND
- PROPOSED SIGN
- PROPOSED SITE LIGHTING
- PROPOSED GREASE INTERCEPTOR
- PROPOSED TRANSFORMER
- PROPOSED STORM SEWER INLET

GENERAL UTILITY NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE PWSO 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 PWSO IMMEDIATELY.
- PWSO 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 PWSO 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:
 - a. 'X' FOR SANITARY SERVICE SEWERS
 - b. 'V' FOR WATER SERVICES
- NO TREES ALLOWED IN EASEMENTS OR WITHIN 6' 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 PWSO AND THE DISTRICT ENGINEER AND ONE (1) COPY OF THE LATEST PWSO SPECIFICATION MANUAL.
- ANY TRAFFIC CONTROL WITHIN PARKER ROAD RIGHT-OF-WAY WILL REQUIRE A CDOT RIGHT-OF-WAY PERMIT.

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

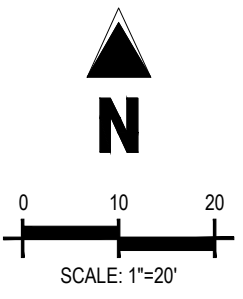
OVERALL UTILITY PLAN
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER, COLORADO

Galloway

6162 S. Willow Drive, Suite 320
Parker, Colorado 80131
303.770.8840
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730

MURPHY USA



PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.

TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO. C-3.2

INSPECTION POLICY:

1. ALL SERVICE INSPECTIONS MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
2. SERVICE INSPECTIONS WILL OCCUR BETWEEN 1:00 P.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
3. IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE OR SERVICE FAILS, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE AND A RE-INSPECTION FEE CHARGED.
4. 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.
5. 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.
6. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
7. LOTS WITHOUT BUILDING ADDRESSES BEFORE DISTRICT INSPECTION OR METER SET WILL FAIL AUTOMATICALLY.
8. CONTRACTOR MUST BE PRESENT AT TIME OF INSPECTION, UNLESS COORDINATED WITH DISTRICT INSPECTOR.

INSTALLATION NOTES:

WATER

1. ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)
2. APPROVED BEDDING TO BE SQUEEGEE.
3. ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-AND-BUILDING. COMPRESSION COUPLINGS WILL NOT BE ALLOWED ON NEW CONSTRUCTION. SILVER SOLDERED JOINTS MUST BE USED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.
4. A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 45-90° ANGLE. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.
5. WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD. CRACK SPACE REQUIRES CONTINUOUS COPPER WITH A 1" BURY.
6. CURB STOP MUST BE PLUMB AND CENTERED OVER THE NUT. IT SHOULD BE STRAPPED TO THE METER PIT (RESIDENTIAL INSTALLATIONS) OR CENTERED OVER THE EASEMENT LINE (COMMERCIAL INSTALLATIONS). THE ASSEMBLY MUST BE AT OR SLIGHTLY ABOVE FINISHED GRADE.
7. MOVED CURB BOXES MUST BE INSPECTED BY PWSO PRIOR TO BURIAL.
8. WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
9. NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
10. CURBSTOP BOXES AND METER PITS CANNOT BE IN DRIVEWAYS.
11. ONLY 3/4" (JUMPER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
12. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
 * W FOR SANITARY SEWER SERVICE
 * V FOR WATER SERVICES
13. NO SPLICES OR FLARED COUPLINGS ALLOWED ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE USED IN MOVING STOPBOXES ON SERVICES LARGER THAN 3/4". SILVER SOLDERED JOINTS MUST BE INSPECTED BY PWSO PRIOR TO BURIAL. FLARED COUPLINGS WILL BE ALLOWED ON ALL SERVICES 3/4" AND SMALLER.

PARKER WATER & SANITATION DISTRICT
DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES

SCALE:	NONE	DATE:	2/96
APPROVED:	1/04		
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.1

TYPICAL SERVICES PLAN VIEW

TYPICAL SERVICES SECTION

NOTE:

1. SEE SHEET W1.1 FOR DISTRICT POLICIES AND INSTALLATION NOTES.
2. REFER TO SEWER SERVICES DETAIL SHEET S1.2.
3. 4" PVC SLEEVES REQUIRED FOR SERVICE LINES UNDER CONCRETE SURFACE.

PARKER WATER & SANITATION DISTRICT
TYPICAL WATER SERVICES

SCALE:	NONE	DATE:	2/96
APPROVED:	1/04	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.2

PIPE LOCATION SYSTEM

PLAN

SECTION VIEW @ FIRE HYDRANT

NOTE:

1. FOR USE ON ALL DUCTILE IRON AND PVC WATER MAINS.
2. LOCATOR STATION POSITION MAY BE ADJUSTED AT THE DISCRETION OF THE REGISTERED ENGINEER.
3. A CONTINUITY TEST WILL BE REQUIRED PRIOR TO PERMANENT ACCEPTANCE.

PARKER WATER & SANITATION DISTRICT
FIRE HYDRANTS LOCATION & INSTALLATION

SCALE:	NONE	DATE:	2/96
APPROVED:	4/01	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.3

VALVE OPENING & CLOSING PROCEDURE

NOTE: ONLY RIGHT HAND OPENING VALVES ALLOWED.

PARKER WATER & SANITATION DISTRICT
VALVE OPERATION

SCALE:	NONE	DATE:	2/96
APPROVED:	1/16	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.4

NOTE:

PLUG SHALL BE MECHANICALLY RESTRAINED FOR SLEEVE TYPE MACHINED COUPLING PIPE TIE BACK TO NEXT COUPLING.

B - FOR BELL AND SPIGOT PIPE TIE TO BELL.

PLAN

ELEVATION

PARKER WATER & SANITATION DISTRICT
BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE

SCALE:	NONE	DATE:	2/96
APPROVED:	4/01	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.7

APPROX. GROUND LINE

WORD "WATER" ON COVER

18" SQ. X 6" THICK CONCRETE COLLAR (EXCEPT IN PAVEMENT)

IF GREATER THAN 8" - 0" EPK/VOID OPERATING NUT EXTENSION SEE DETAIL SHEET W3.3.

6" 8", 10" OR 12" MECH. JT. GATE VALVE

WIDE OVAL BASE

6" 8", 10", 12" PIPE

6" MIN. OF GRAVEL

6-INCH VALVE BOXES
CHECK MATERIAL SPECIFICATIONS

NOTE:

1. ALL C.I. SHALL BE WRAPPED WITH 8 MIL. MIN. THICKNESS POLYETHYLENE.
2. VALVE NUT SHALL BE CENTERED.
3. VALVE BOX SHALL BE PLUMB.
4. SEE MATERIAL SPECIFICATIONS FOR VALVE BOX WITH GREATER THAN BURIED DEPTH OF 4.5 FT.

PARKER WATER & SANITATION DISTRICT
VALVE BOX DETAIL

SCALE:	NONE	DATE:	2/96
APPROVED:	4/01	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.10

11-1/4", 22-1/2", 45" & 90" BENDS

DEAD END

TEE

TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

SIZE OF JOINT	BENDS			TEE OR DEAD END		
	11-1/4"	22-1/2"	45"	90"	45"	90"
4"	1.00	1.00	1.00	1.80	1.80	1.50
6"	1.50	1.50	1.50	2.70	2.70	2.25
8"	2.00	2.00	2.00	3.60	3.60	3.00
12"	3.00	3.00	3.00	5.40	5.40	4.50
18"	4.50	4.50	4.50	8.10	8.10	6.75
24"	6.00	6.00	6.00	10.80	10.80	9.00

NOTE:

1. ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND KICKBLOCKED.
2. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
3. BASED ON 150 PSI PIPE PRESSURE PLUS METER BURDEN: 4" 6" AND 8" WATER HAMMER = 120 PSI, 12" WATER HAMMER = 110 PSI, 18", 20" AND 24" WATER HAMMER = 70 PSI.
4. SOIL BEARING CAPACITY = 3,000 LBS./SQ. FT.

PARKER WATER & SANITATION DISTRICT
CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION

SCALE:	NONE	DATE:	2/96
APPROVED:	4/01	10/16	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.18

STANDARD TRENCH SECTION

STREET CUT PATCH

NOTE: MINIMUM COVER TO BE BELOW OFFICIAL STREET GRADE.

PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-0"	2'-0"
6"	1'-6"	2'-6"
8"	2'-0"	3'-0"
12"	2'-6"	3'-6"
18"	3'-0"	4'-0"
24"	3'-6"	4'-6"

PARKER WATER & SANITATION DISTRICT
TYPICAL TRENCH SECTION PIPE PROTECTION

SCALE:	NONE	DATE:	2/96
APPROVED:	5/08	2/08	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.1

PIPE BEDDING:

(c) Installation of bedding and pipe after completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed under the foundation to support the pipe. Bell holes shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bell and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is installed for line and grade and the joint is made, the bedding material shall be carefully placed and tamped under the haunches of the pipe and in the previously dug bell holes.

Tamping is herein defined as the act of placing approved bedding material under the haunches of the pipe, paying particular attention to voids, bell holes, and silt holes. The purpose of tamping is to ensure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved backfill may then be installed to the groundline. See Chapter 2 of these Standards for backfill and composition of backfill.

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet W1.1 of the Standards Details for a typical trench cross section.

(d) Bedding Material: The bedding material shall be a clean well-graded sand or aggregate sand and shall conform to the following limits when tested by means of laboratory sieves:

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	70-100
No. 8	35-93
No. 16	20-80
No. 30	8-60
No. 60	2-30
No. 100	1-10
No. 200	0-3

For use with 20-inch or smaller

Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 200	0-3

If approved by the District, fines from the trench walls and spoils pile may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the sieve controls, or any other detrimental substances, shall be placed closer to the pipe than six inches (6"). Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

PARKER WATER & SANITATION DISTRICT
PIPE BEDDING

SCALE:	NONE	DATE:	2/96
APPROVED:	5/08	2/08	
	PVR	10/16	
	DIRECTOR OF ENGINEERING		

2016 REVISION SHEET W1.2

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

Galloway
6102 S. Willow Drive, Suite 320
Parker, Colorado 80111
303.770.8844
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730

MURPHY USA

PARKER AND PINE FILING NO. 1 LOT 2 - SITE PLAN

MURPHY OIL USA, INC.

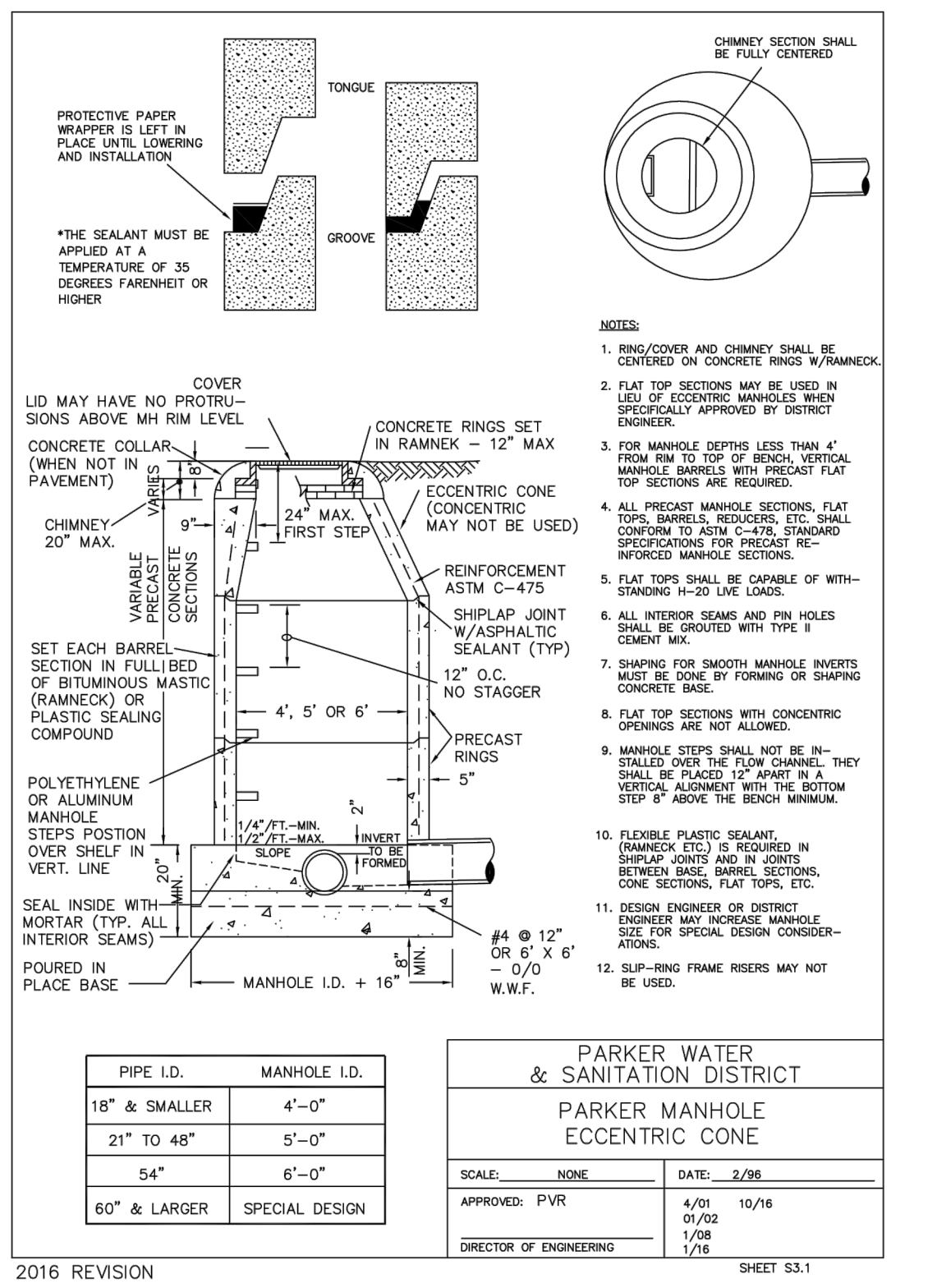
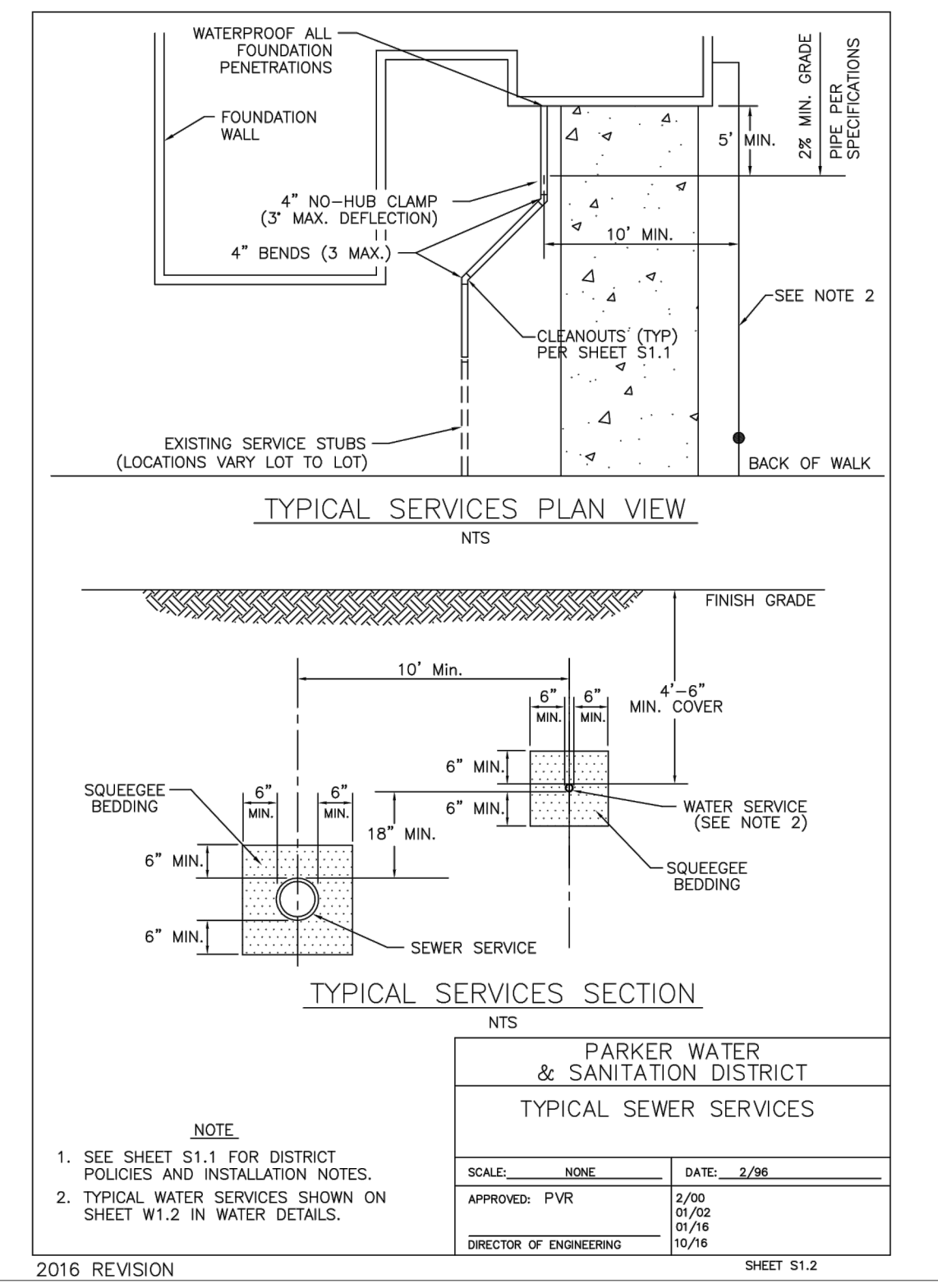
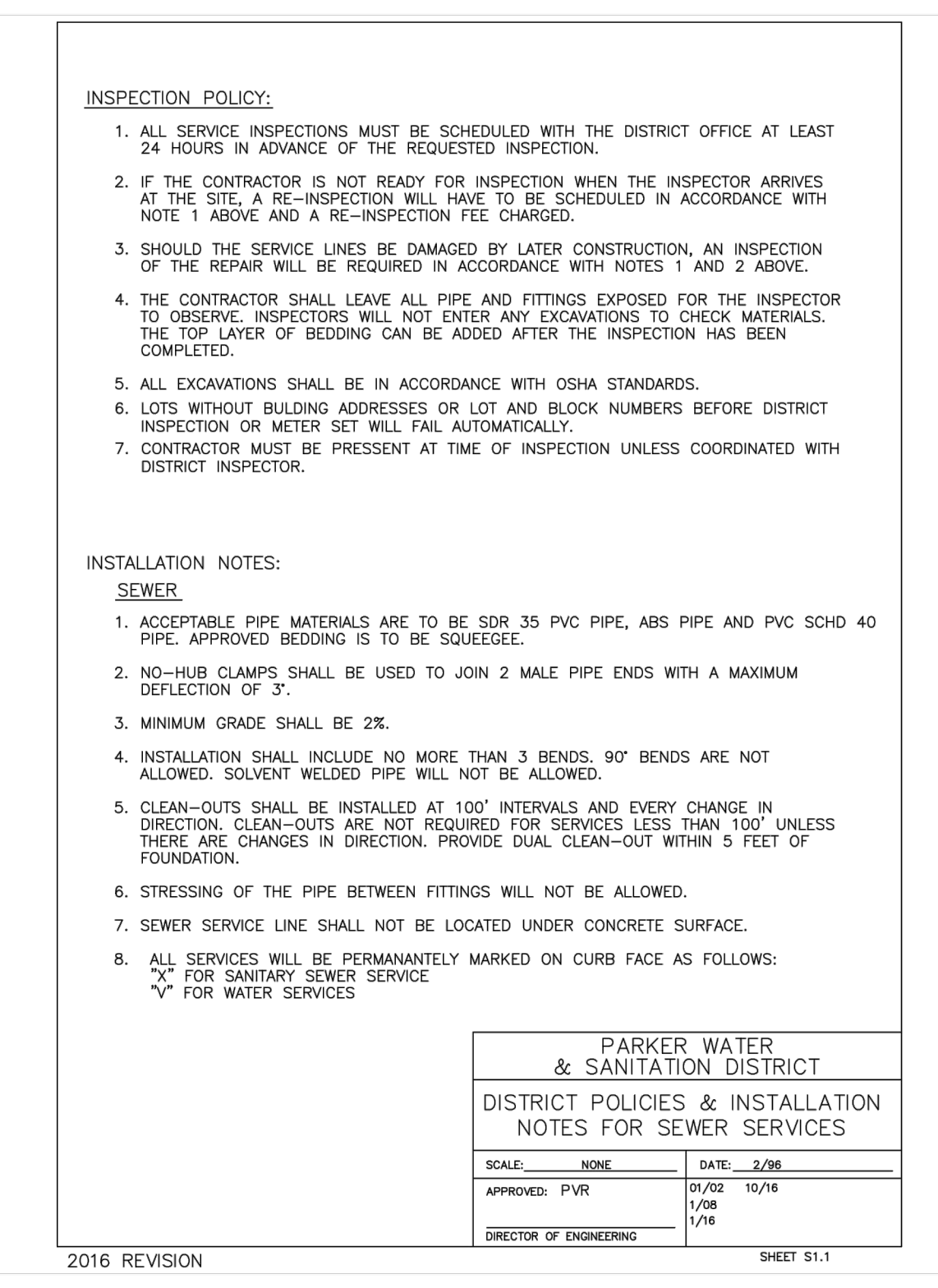
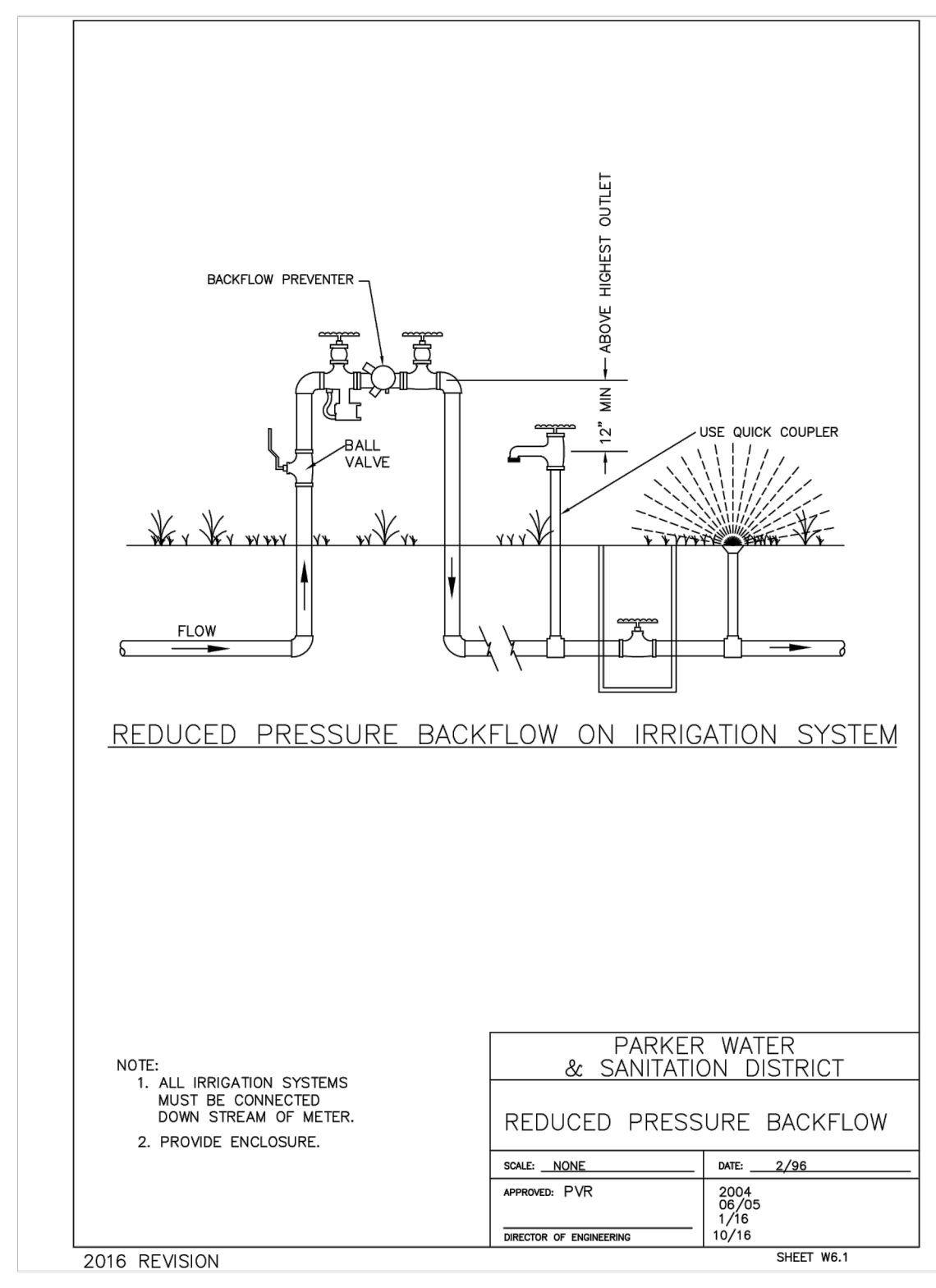
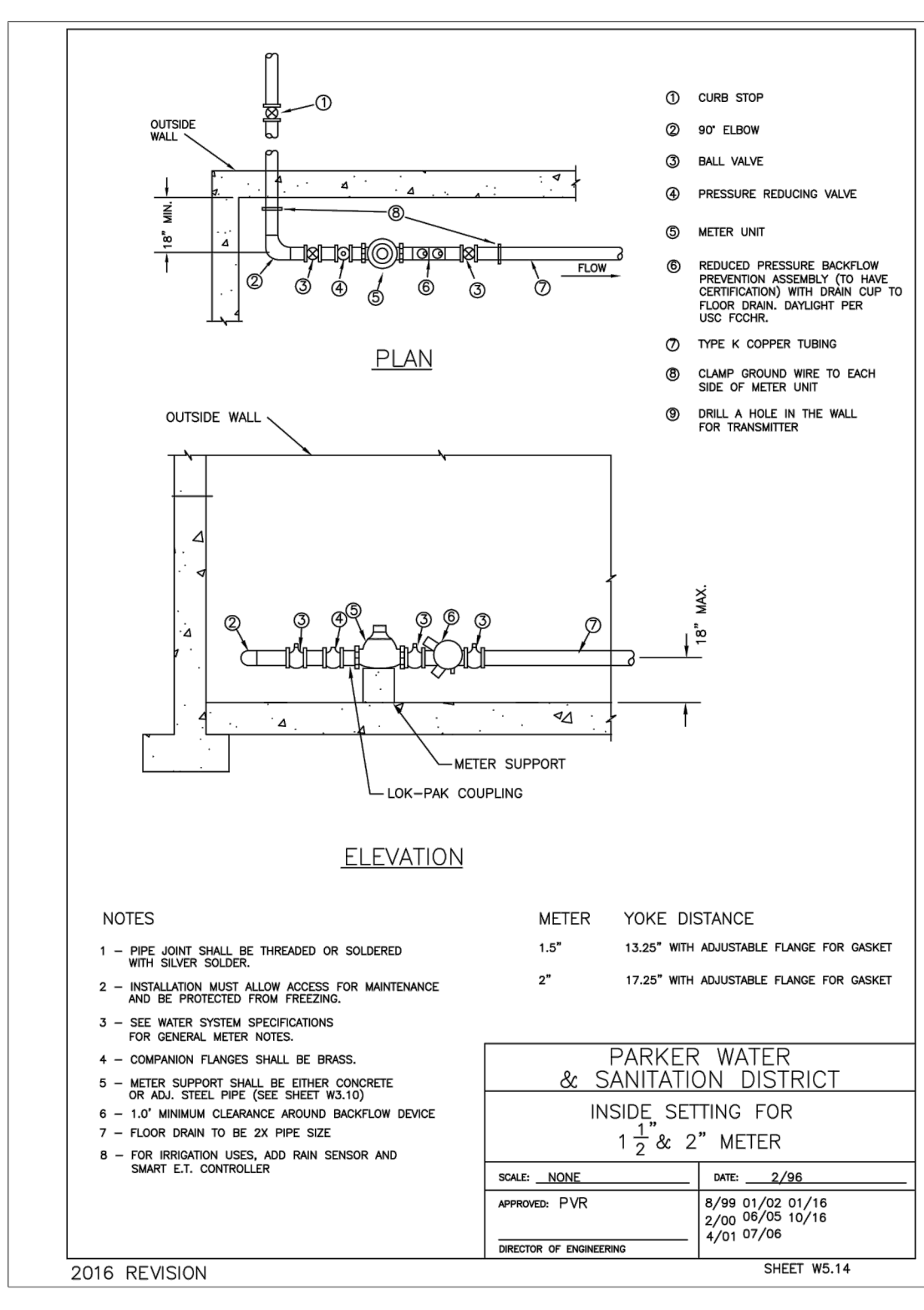
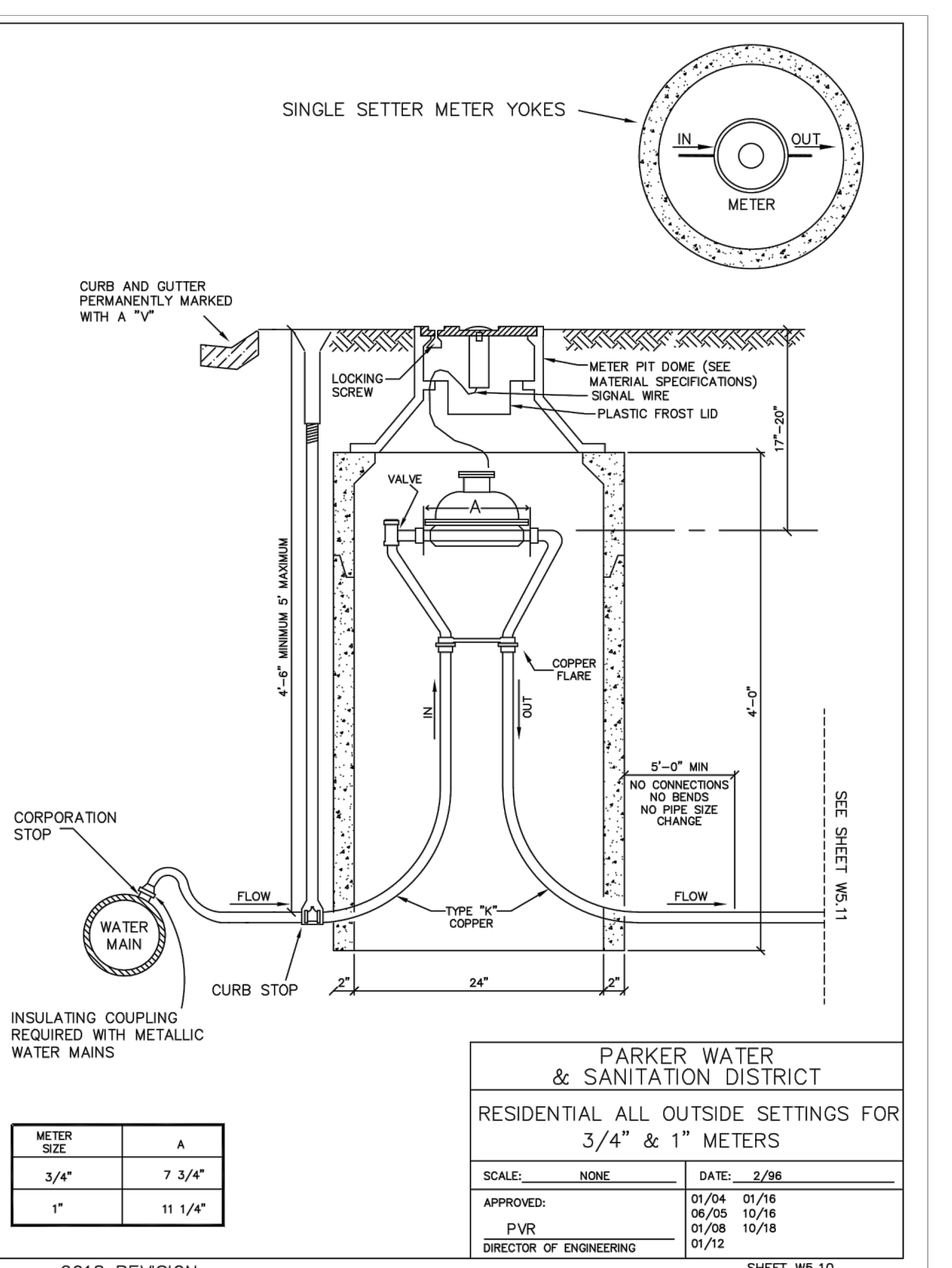
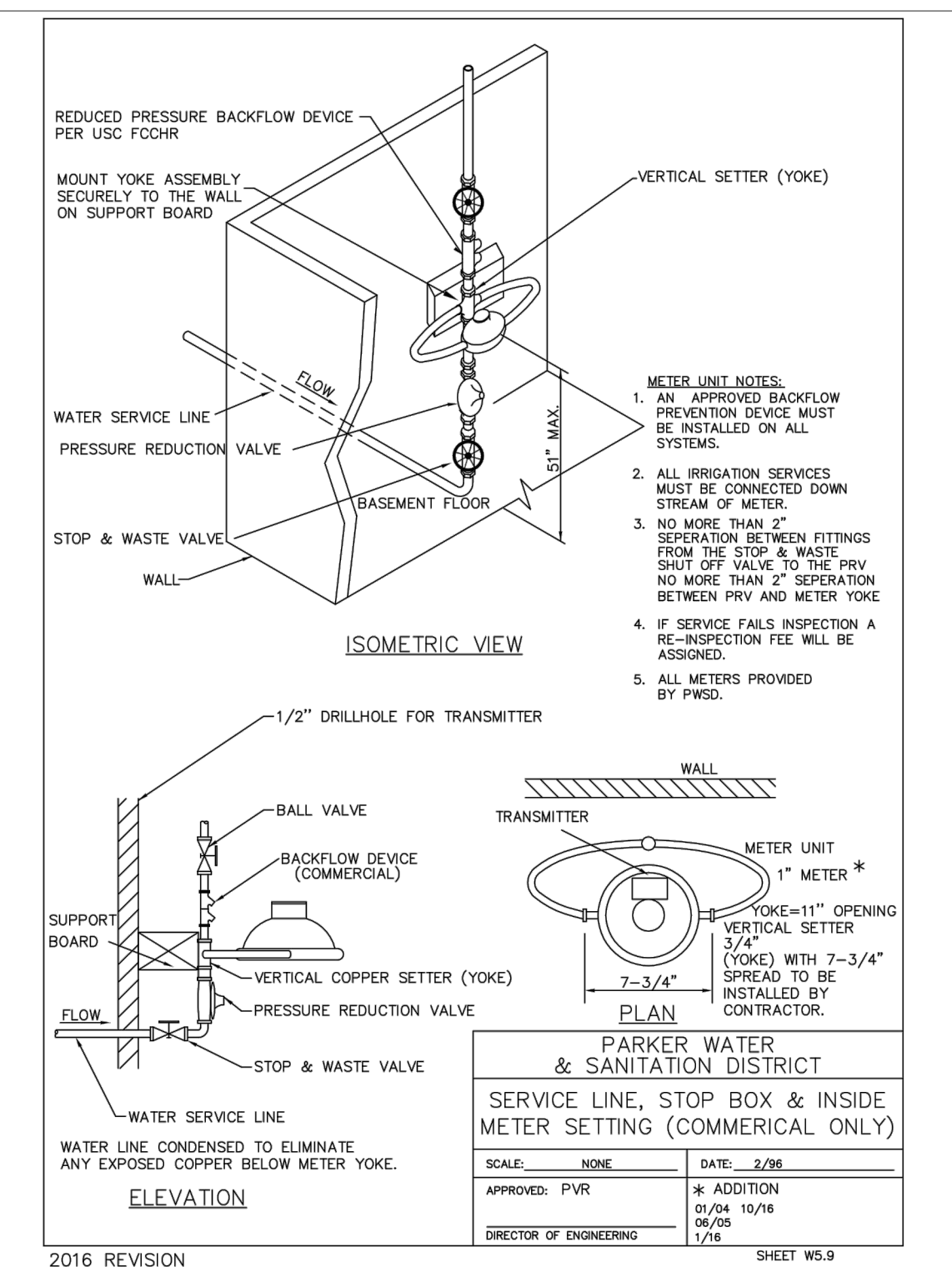
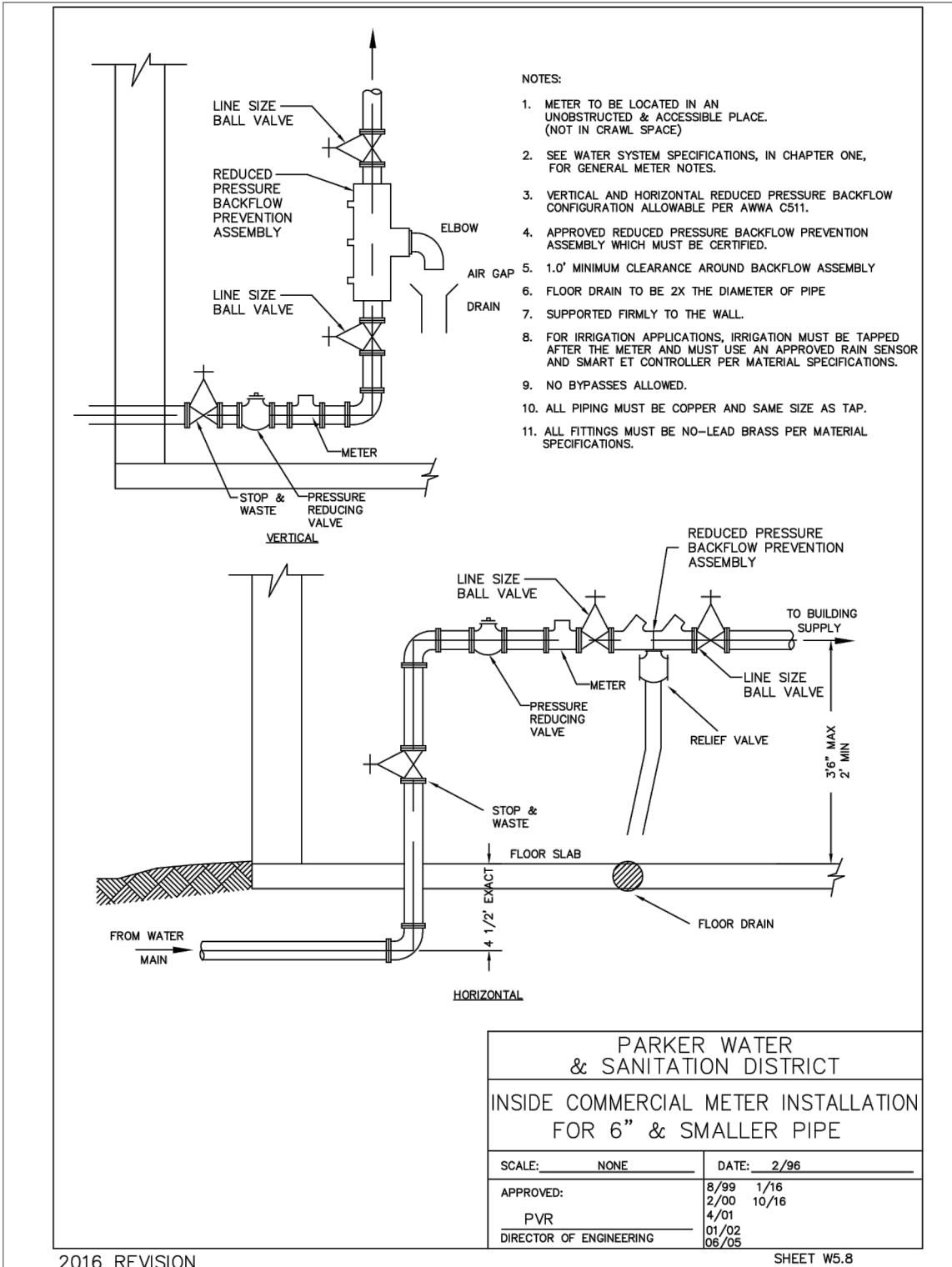
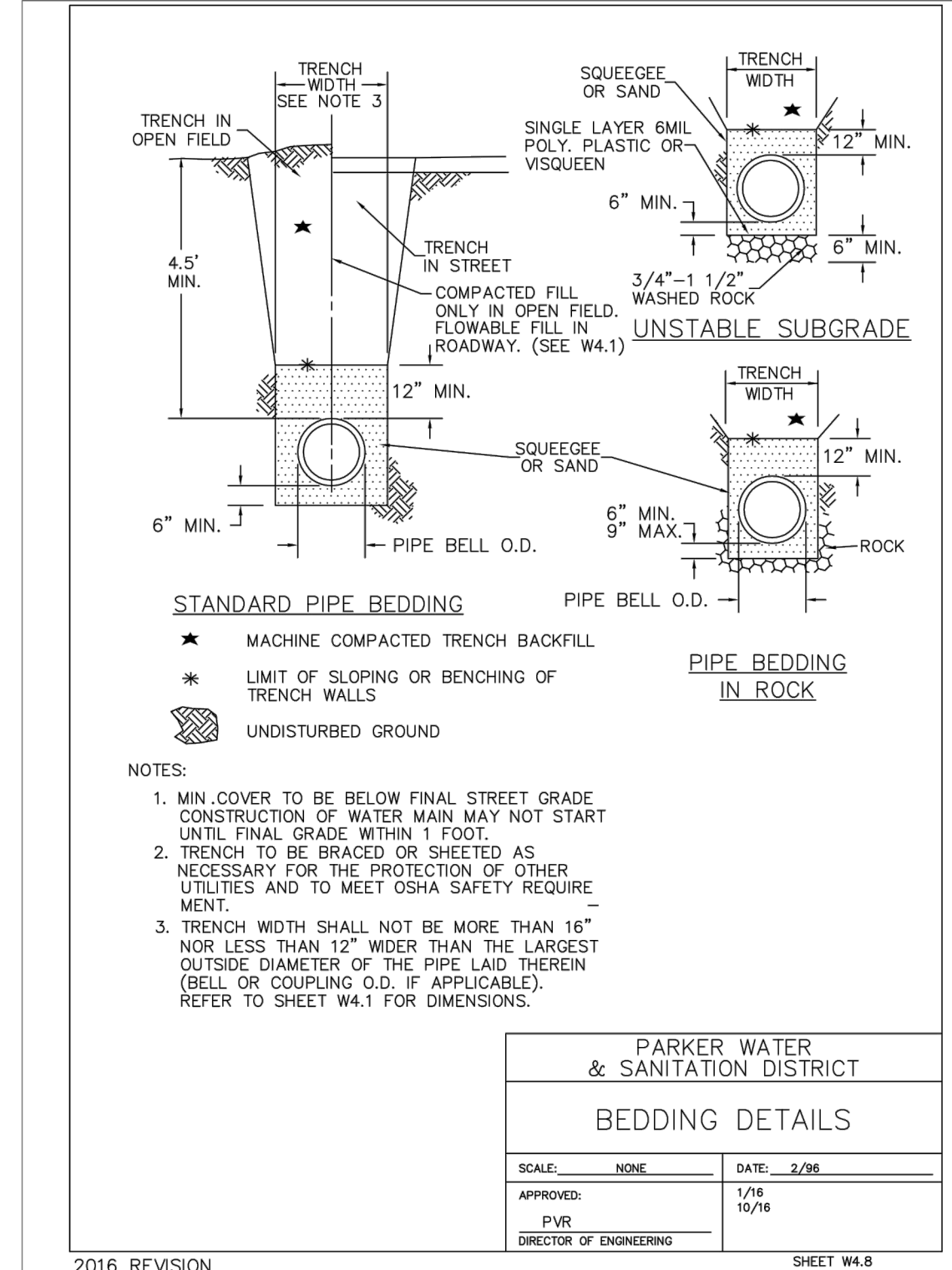
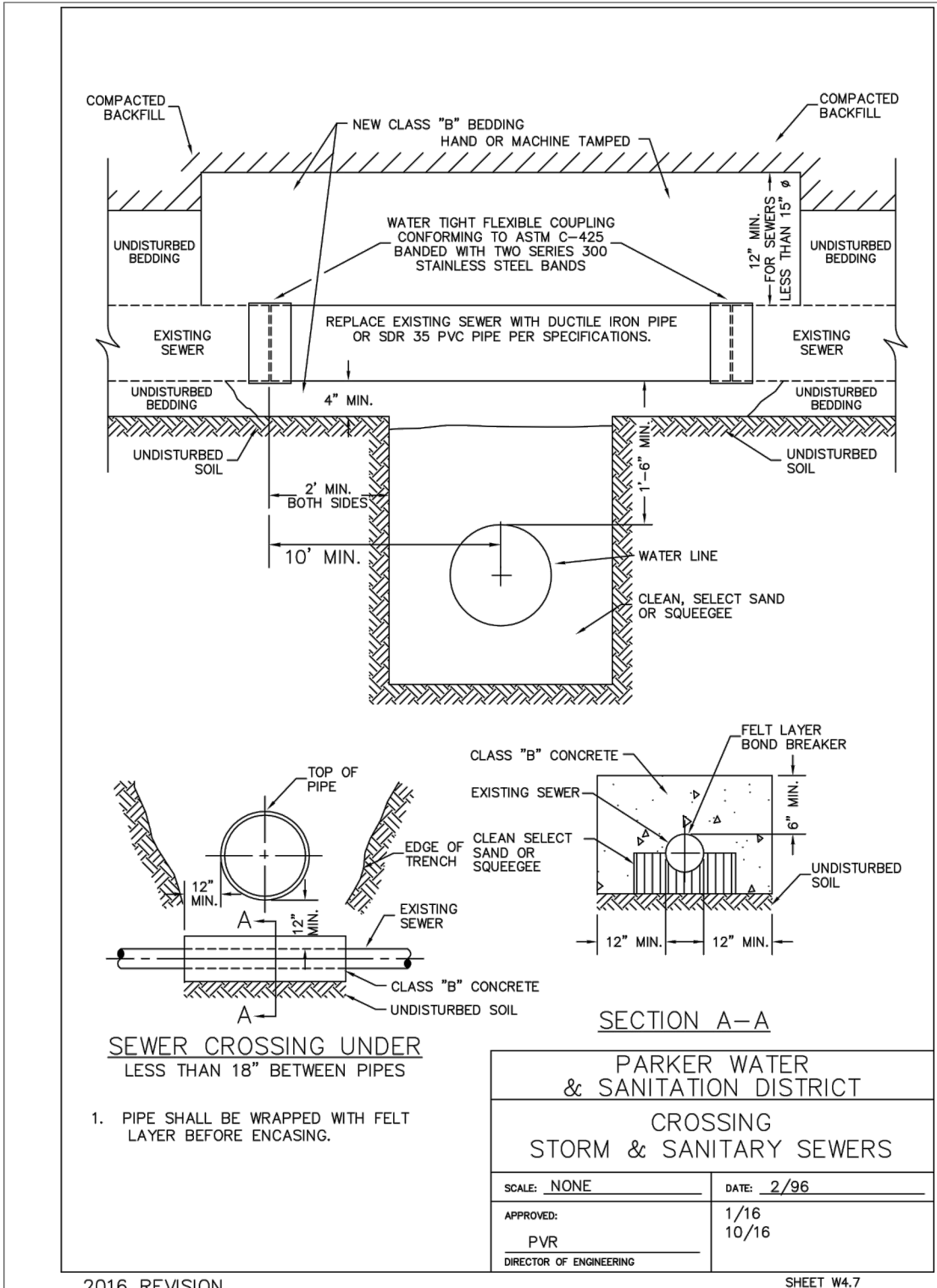
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO. C-3.3



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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

Galloway
6102 S. Willow Drive, Suite 320
Englewood, CO 80111
303.770.8844
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730

MURPHY USA

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

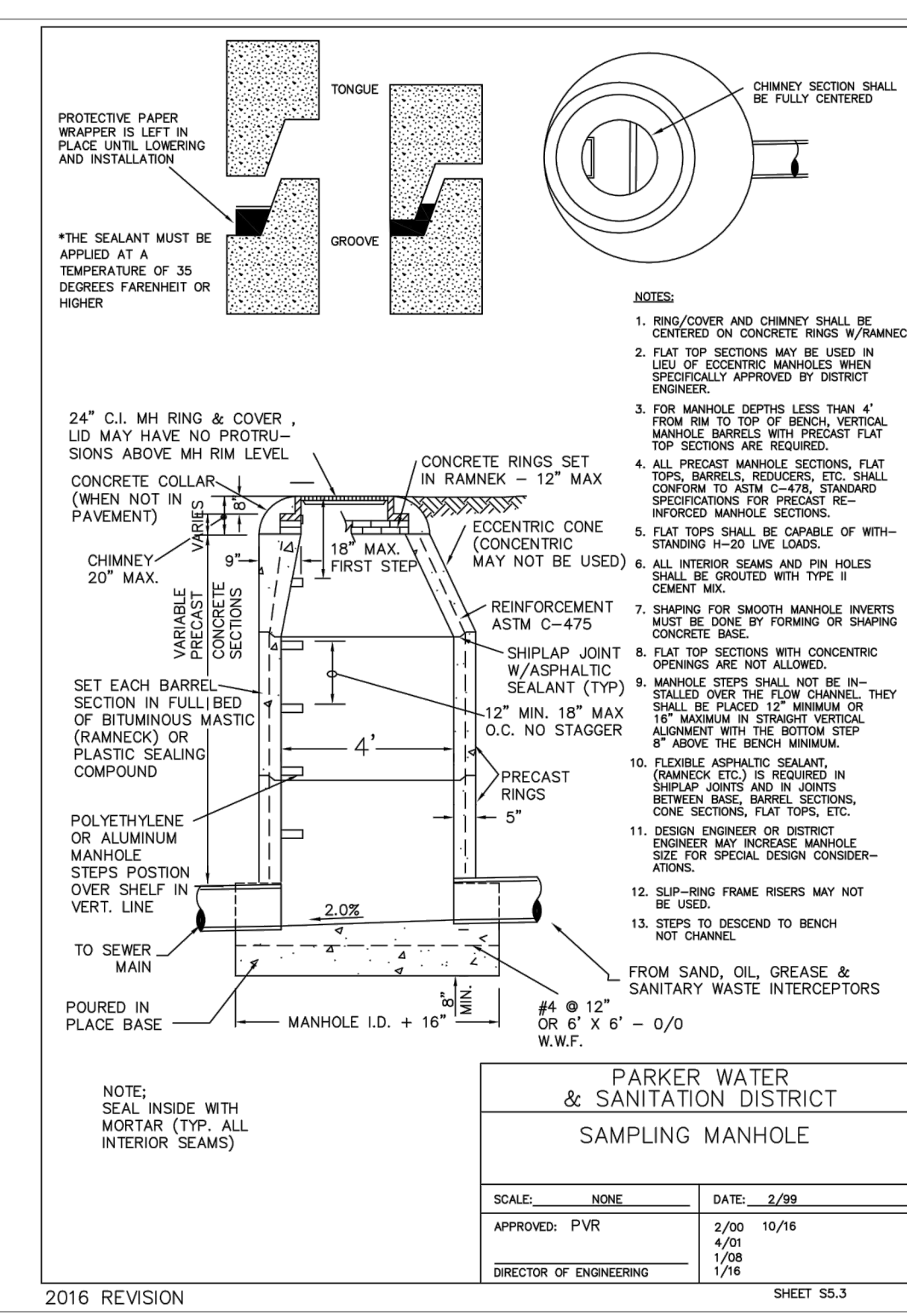
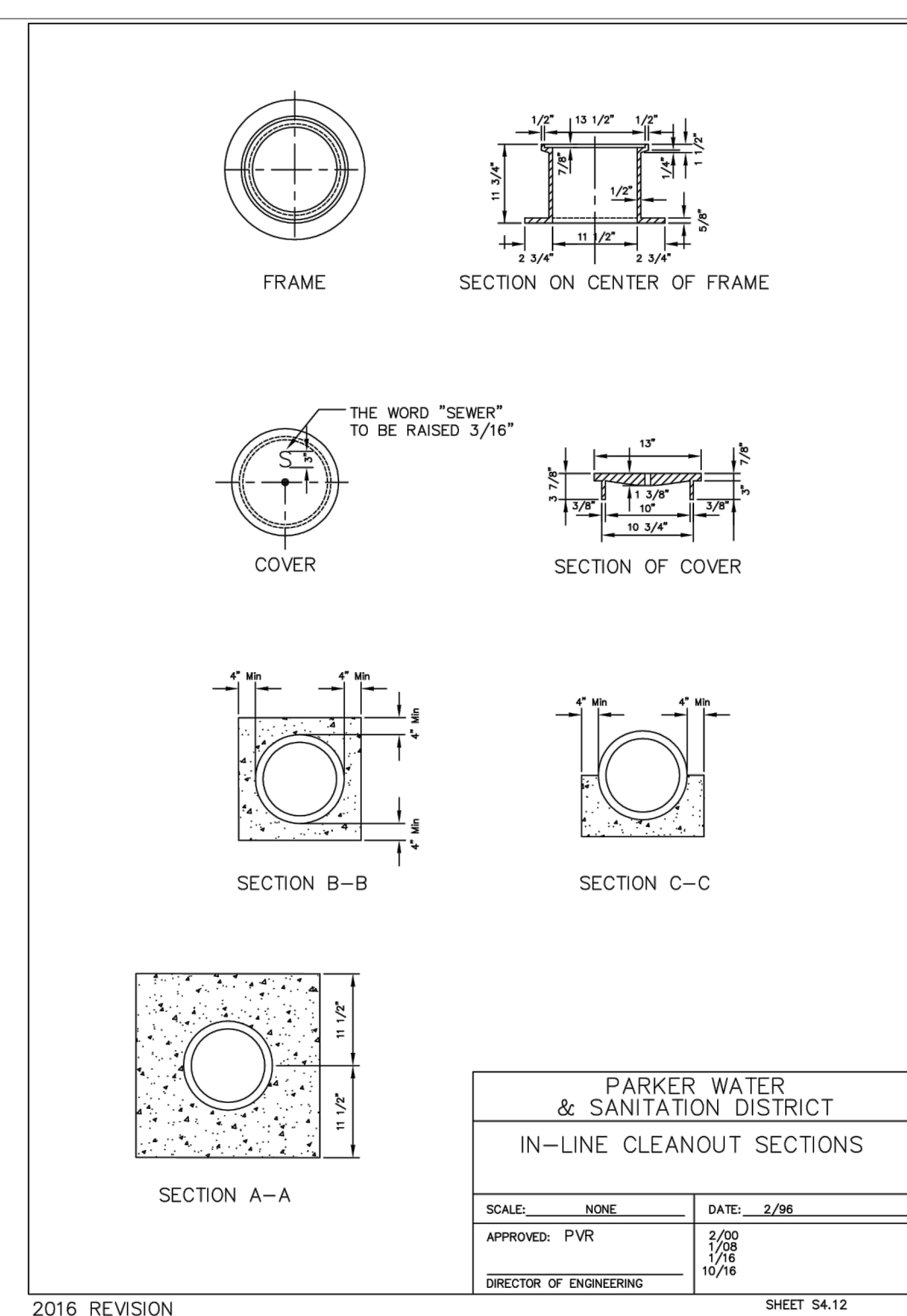
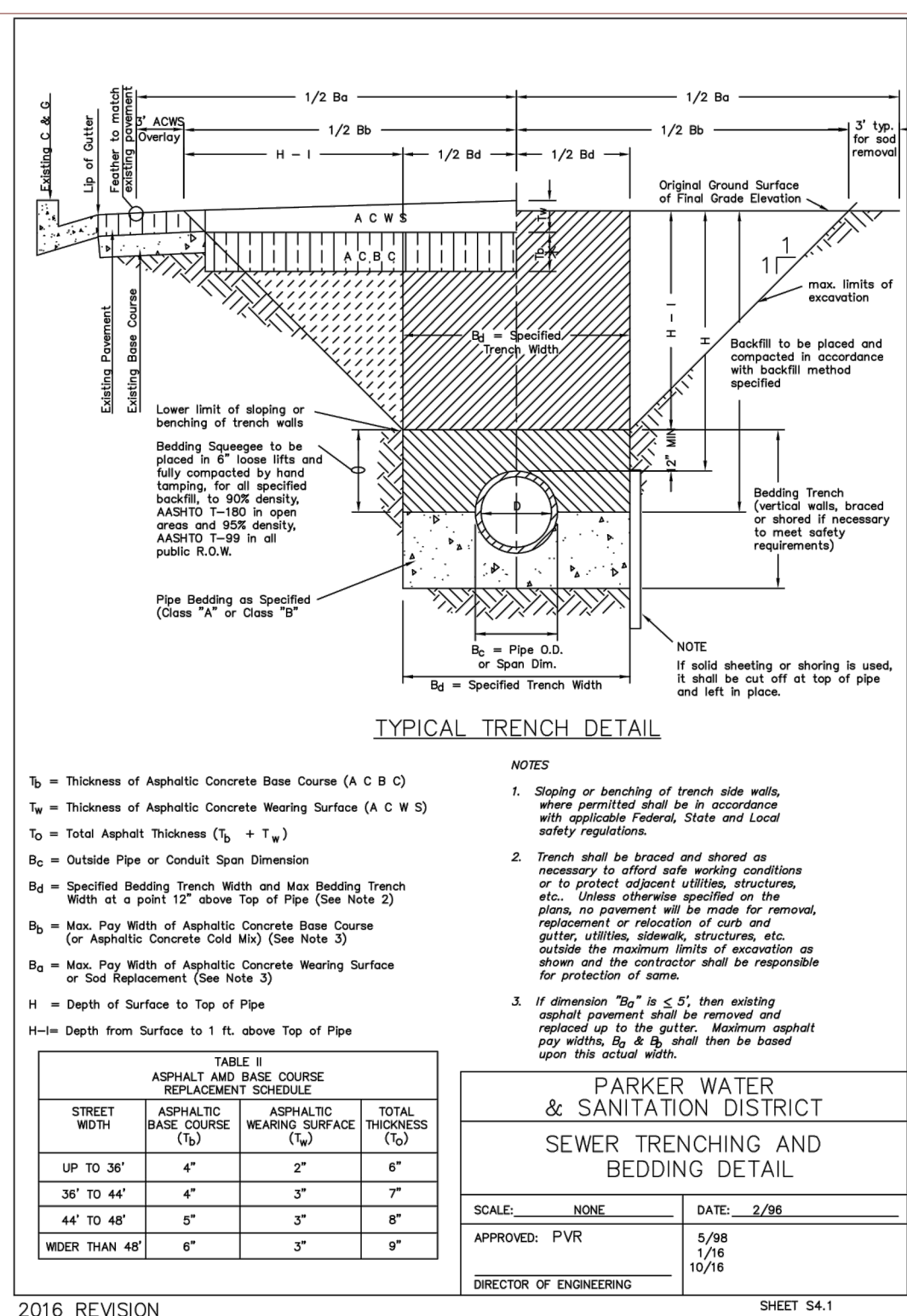
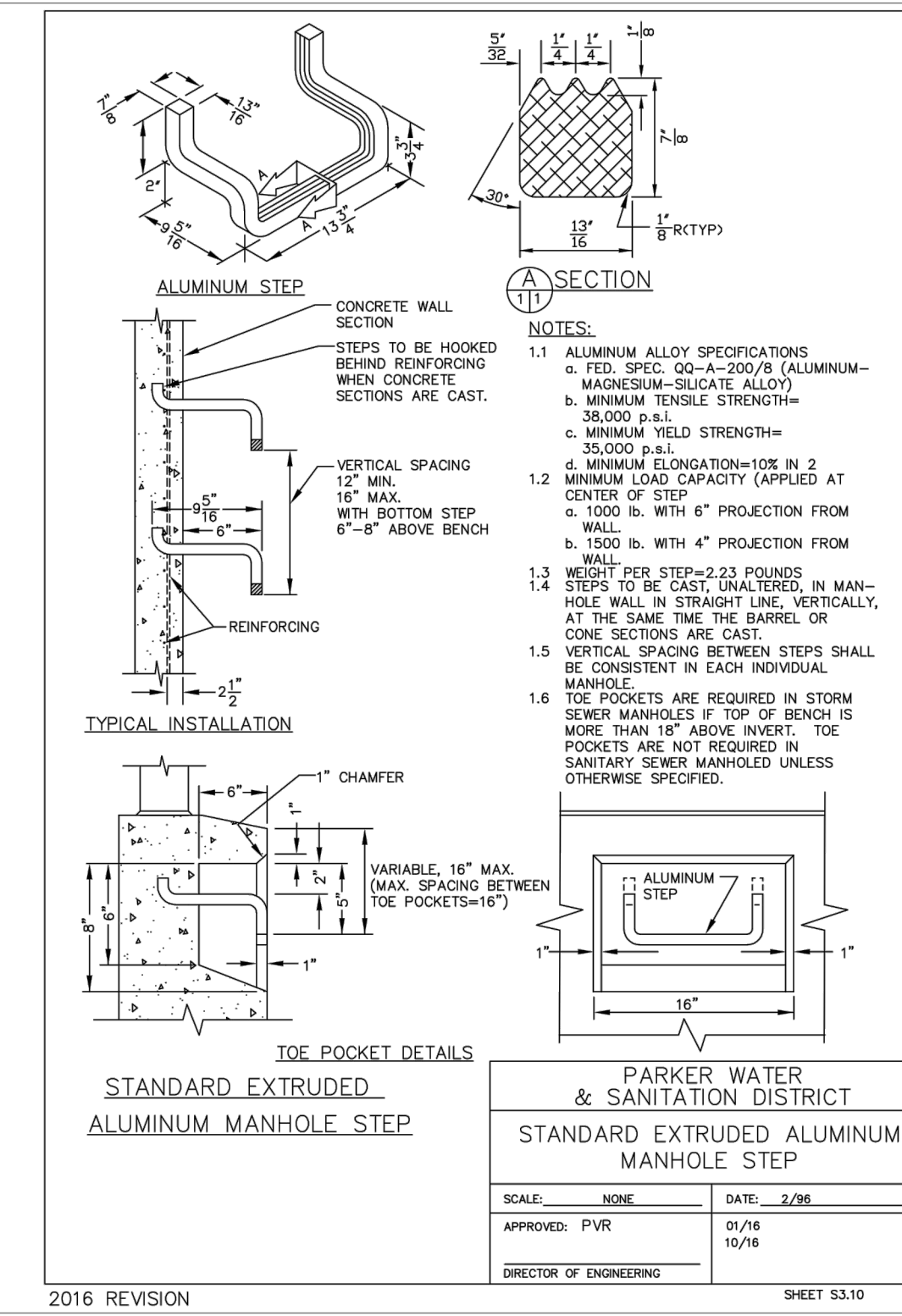
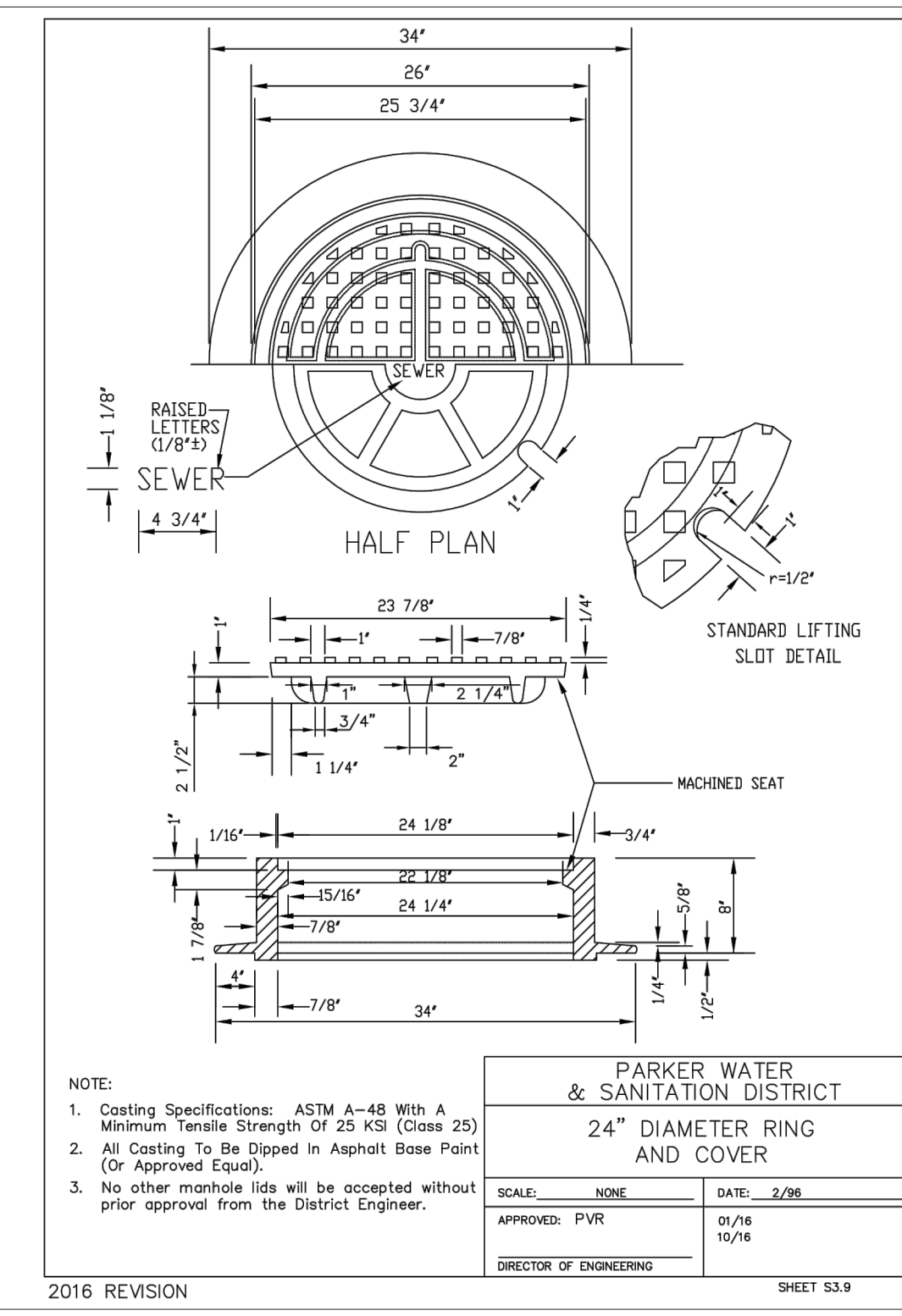
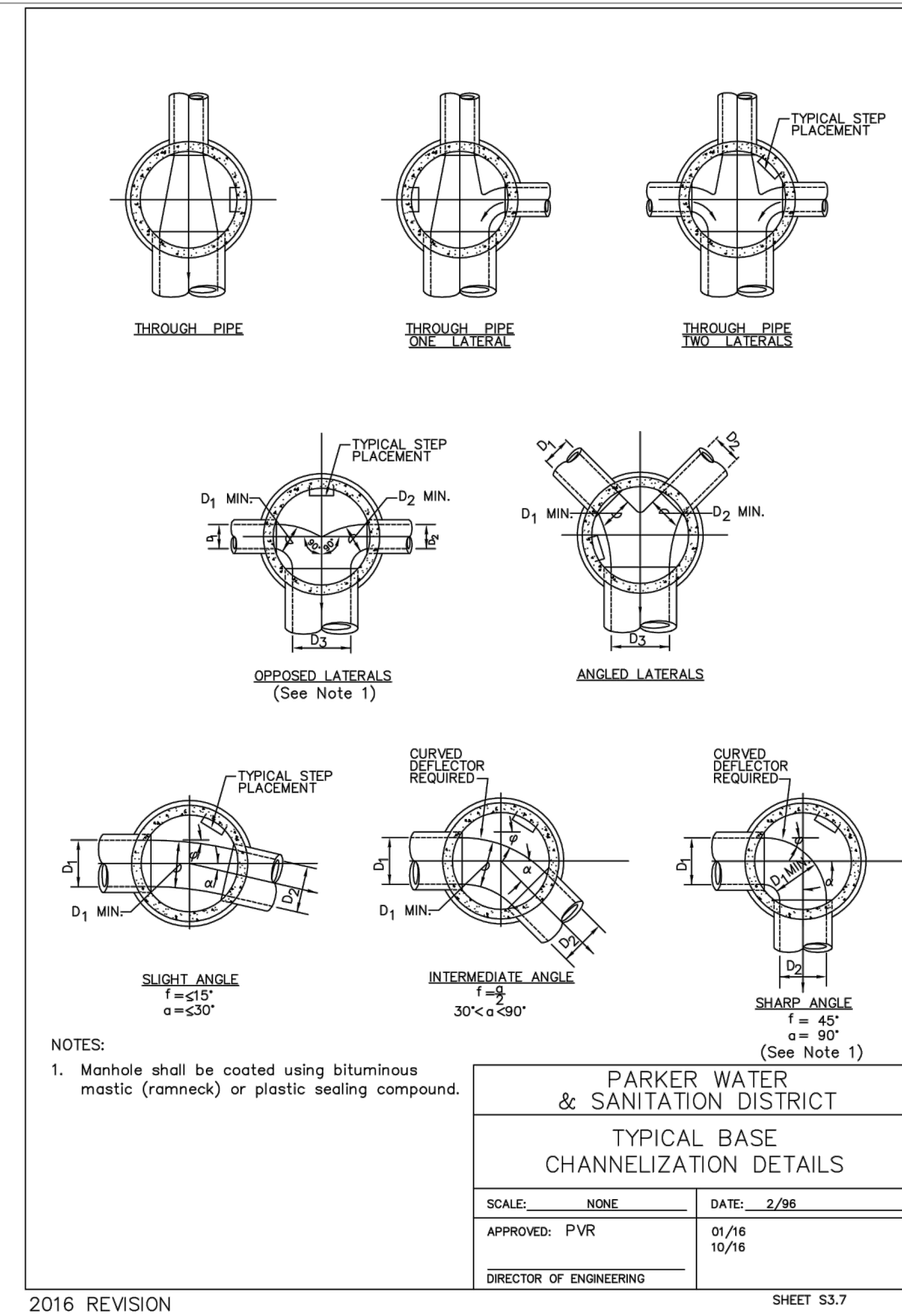
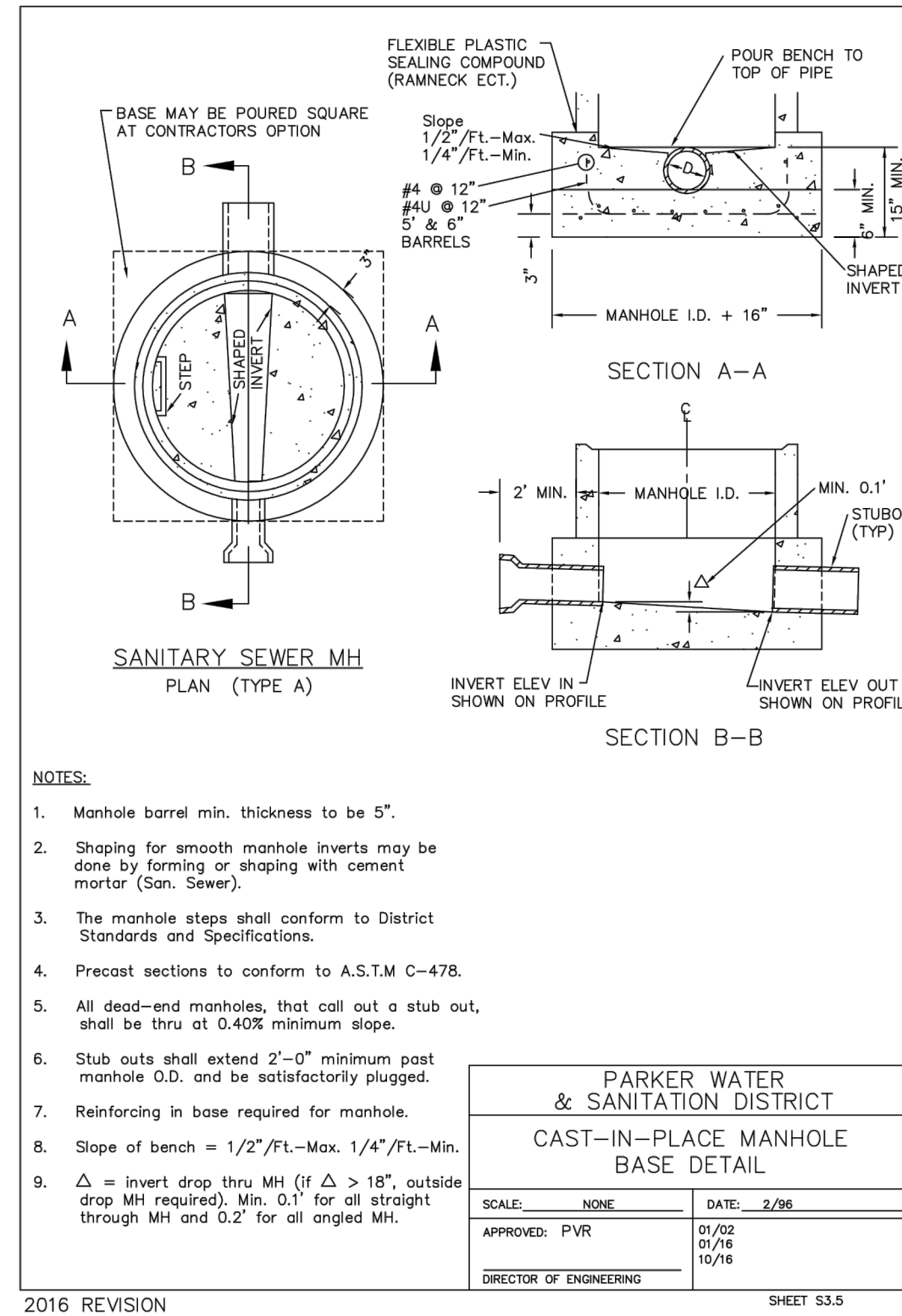
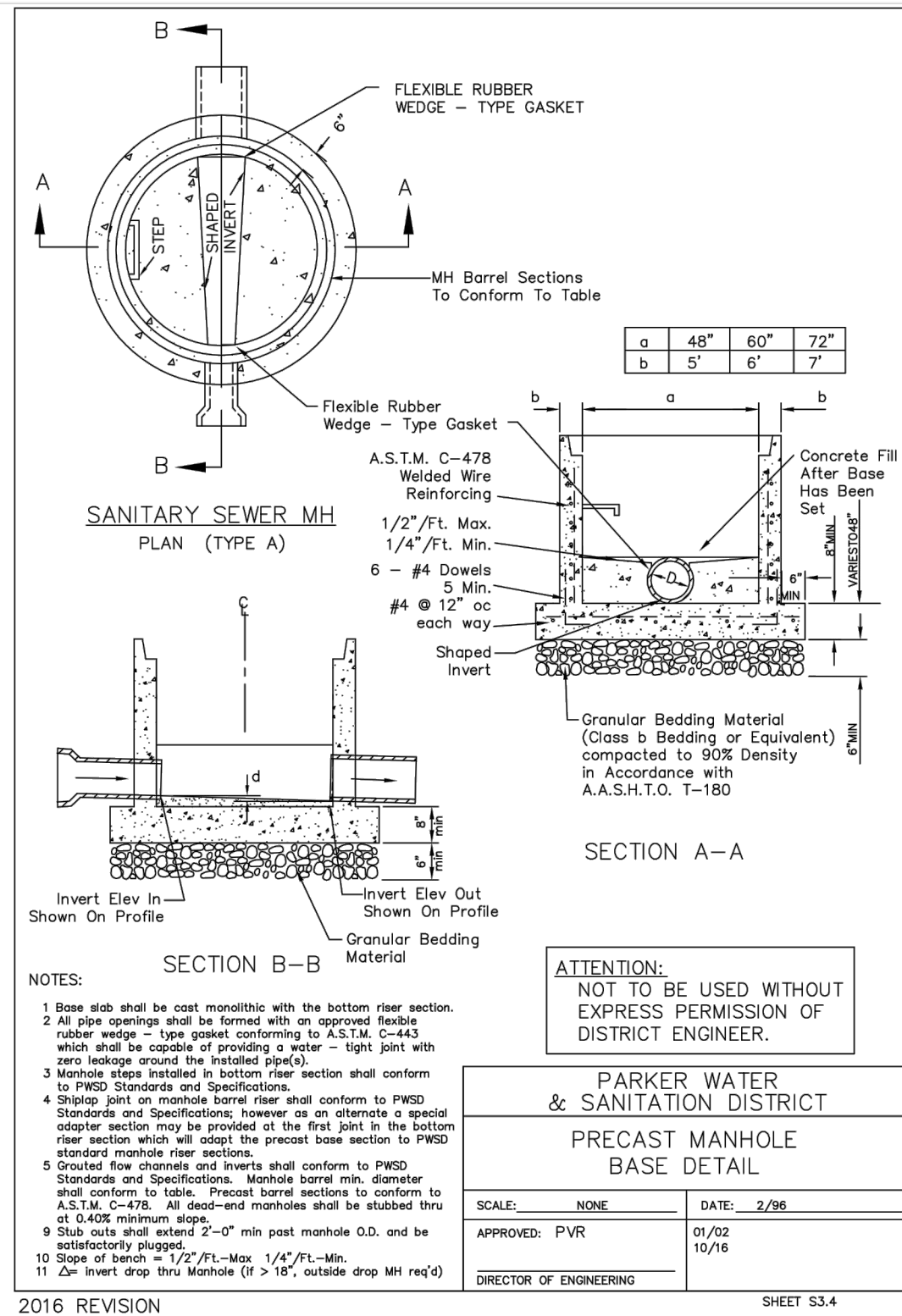
SITE PLAN DOCUMENTS



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SHEET NO.

C-3.4



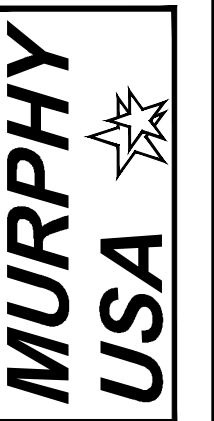
UTILITY DETAILS
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER
COLORADO

Galloway

6102 S. Willow Drive, Suite 320
Wenger, CO 80111
303.770.9844
GallowayUS.com

MURPHY OIL USA, INC.

200 PEACH STREET
EL DORADO, AR 71730



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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.

TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

MANHOLE COVER STANDARD DETAIL

DATE: NOVEMBER 2020
DETAIL: 33 OF 1

ACO DRAIN

KlassikDrain - K200 Galvanized steel edge rail channel system

One meter channel: 39.37' (1 meter)

Half meter channel: 19.69' (0.5 meter)

Knock-outs included on every 5th channel

Total capacity = 19 gallons

Outlet	Product	Outlet size (in.)	Outlet length (ft)	CFS
A	Bottom outlet - K200	4" round	7.87'	153
B	Bottom outlet - K2040	4" round	15.75'	216
C	End outlet - K200	4" round	7.87'	344
D	End outlet - K240	4" round	15.75'	488
E	End outlet - K210	4" round	7.87'	132
F	End outlet - K240	4" round	15.75'	202
G	Type K2 902G	4" round	15.75'	291
H	Type K2 902G	4" round	15.75'	291
I	Type K2 902G	4" round	15.75'	291
J	Type K2 902G	4" round	15.75'	291
K	Type K2 902G	4" round	15.75'	291
L	Type K2 902G	4" round	15.75'	291
M	Type K2 902G	4" round	15.75'	291
N	Type K2 902G	4" round	15.75'	291
O	Type K2 902G	4" round	15.75'	291
P	Type K2 902G	4" round	15.75'	291
Q	Type K2 902G	4" round	15.75'	291
R	Type K2 902G	4" round	15.75'	291
S	Type K2 902G	4" round	15.75'	291

April 2018 www.ACOdrain.us

ACO DRAIN

Type 678Q Longitudinal ductile iron grate (ADA)

Product Features:

- Certified to EN 1433 Load Class C - 56,000 lbs - 967 psi
- Uses 'QuickLok' boltless locking system
- Suitable for use with K200, K2000, H200K13, and H200KS13 channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- E-coated for improved resistance against rust
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A11.2.6.3 - 2001: Section 7.1.2 Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS 3996 - 2006

Specifications:

General: The surface drainage system that be ACO Drain K200, K2000, H200K13, and H200KS13, channels* complete with ACO Type 678Q longitudinal ductile iron grate with 'QuickLok' locking as manufactured by ACO, Inc. or similar approved.

Materials: The covers shall be manufactured from ductile iron and have minimum properties as follows:

- Independently certified to meet Load Class C
- to EN 1433 - 56,000 lbs - 967 psi
- Ductile iron to ASTM A 536-84 - Grade 65-45-12
- Intake area of 51.62 sq. in. (330.97 cm²) per half meter of grate

The overall width of 9.41" (239mm) and overall length of 19.69" (500mm). Slots measure at a maximum of 1.41" (35.8mm) by 0.31" (8mm).

Installation: The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.

April 2018 www.ACOdrain.us

ACO DRAIN

Type 678Q Longitudinal ductile iron grate (ADA)

Plan view and side elevation diagrams.

Description	Part No.	Length (inches (mm))	Width (inches (mm))	Weight (lbs.)
QuickLok grate	90038	19.69 (500)	9.41 (239)	22.0
QuickLok locking bar	10457	-	-	0.5
QuickLok grate removal tool	03118	-	-	0.3

'QuickLok' locking mechanism diagram.

ACO Inc. contact information for various offices.

April 2018 www.ACOdrain.us

SHEET NO. C-3.5

UTILITY DETAILS
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER COLORADO

Galloway
6162 S. Willow Drive, Suite 320
Englewood, CO 80111
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO.

C-3.6

UTILITY DETAILS
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER COLORADO

Galloway

6162 S. Willow Drive, Suite 320
Englewood, CO 80111
303.770.9864
GallowayUS.com

MURPHY OIL USA, INC.

200 PEACH STREET
EL DORADO, AR 71730

MURPHY
USA

STEEL GRATE QUANTITIES

PIECES	DESCRIPTION	LENGTH PER FT. (LBS.)	WEIGHT PER FT. (LBS.)
4	5/8" x 7/8" BEAM	40"	7.50
2	3/2" x 1/2" FLAT	265"	2.90
2	3" x 1/2" FLAT	265"	2.50

TOTAL LBS. = 131

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. OF STEPS
2'-0"	1.0	75	0
3'-0"	1.3	85	0
4'-0"	1.7	97	0
5'-0"	2.1	109	1
6'-0"	2.5	122	2
7'-0"	2.9	135	3
8'-0"	3.3	148	4
9'-0"	3.7	161	5
10'-0"	4.1	174	6
11'-0"	4.5	187	7
12'-0"	4.9	200	8

GENERAL NOTES

- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN 2 INCH CLEARANCE OUT OR BEND AROUND PIPES AS REQUIRED.
- CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6" X 6" - W4.4 X W4.4 OR 6" X 6" - W2.3 X W2.3.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- THE STANDARD INLET GRATES SHALL BE USED IN ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED IN THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT AIA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO A547.01 U.S.P.
- SEE STANDARD PLAN M-604-11 FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ALL INLETS SHALL HAVE A 4" HIGH DIA. MESH MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.
- "TYPICAL HEX HEAD OR TWISTED CROSS BARS AT 4" IN CTRS. WELDED TO 4" x 3/4" BEARING BARS SPACED AT 24" CTRS.
- 402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

BAR LIST FOR H = 2 FT. - 6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D	HEIGHT	LENGTH
NO. 402	2	2'-2 1/2"	8'-0"
NO. 402	4	1'-0"	13'-4"

INLET, TYPE C

Standard Plan No. M-604-10
Standard Sheet No. 1 of 1

STEEL GRATE QUANTITIES

PIECES	DESCRIPTION	LENGTH PER FT. (LBS.)	WEIGHT PER FT. (LBS.)
4	5/8" x 7/8" BEAM	40"	7.50
2	3/2" x 1/2" FLAT	265"	2.90
2	3" x 1/2" FLAT	265"	2.50

TOTAL LBS. = 131

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. OF STEPS
3'-0"	1.3	72	4
3'-6"	1.5	78	4
4'-0"	1.8	89	5
4'-6"	1.8	104	6
5'-0"	1.9	109	6
5'-6"	2.1	122	7
6'-0"	2.2	136	8
6'-6"	2.4	141	8
7'-0"	2.5	154	9
7'-6"	2.7	168	10
8'-0"	2.8	173	10
8'-6"	3.0	187	11
9'-0"	3.1	200	12
9'-6"	3.3	205	12
10'-0"	3.4	219	13

GENERAL NOTES

- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/8" OF AN INCH.
- REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 INCH MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE GRADE 60 AND EPOXY COATED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO A547.01 U.S.P.
- ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
- STATION POINT IS AT THE CENTER OF THE INLET.
- GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.

BAR LIST FOR H = 3 FT. - 0 IN.

MARK	NO. REQ'D	DIMENSIONS	LENGTH
401	4	3'-0"	13'-4"
402	2	3'-0 1/2"	8'-0"
403	1	2'-0 1/2"	7'-0"

CONCRETE INLET TYPE 13

Standard Plan No. M-604-13
Standard Sheet No. 1 of 1

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO.

C-3.7

BASIS OF BEARING

BEARINGS ARE BASED ON A PORTION OF THE EAST LINE OF LOT 1, BLOCK 3, PARKER AUTO PLAZA FILING NO. 1 AND BEING A PORTION OF THE WEST RIGHT OF WAY LINE OF PARKER ROAD, THE SOUTH END OF THE LINE BEING THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK 3, MONUMENTED ON THE NORTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 24960 AND ON THE SOUTH END BY A FOUND NO. 4 REBAR RED PLASTIC CAP PLS 23524, AND IS CONSIDERED TO BEAR S23°56'20"E, A DISTANCE OF 553.91 FEET.

BENCHMARK

ELEVATIONS SHOWN ARE BASED ON CONTROL PROVIDED BY MARTIN & MARTIN, VERTICAL DATUM IS APPROXIMATELY 2.6± FEET BELOW NAVD 88.

SITE BENCHMARKS:

SITE BENCHMARK #1: #5 REBAR WITH 2" ALUMINUM; CAP STAMPED "PLS 36062"; EL = 5634.76

SITE BENCHMARK #2: #5 REBAR WITH 2" ALUMINUM; CAP STAMPED "PLS 36062"; EL = 5640.22

CAUTION – NOTICE TO CONTRACTOR

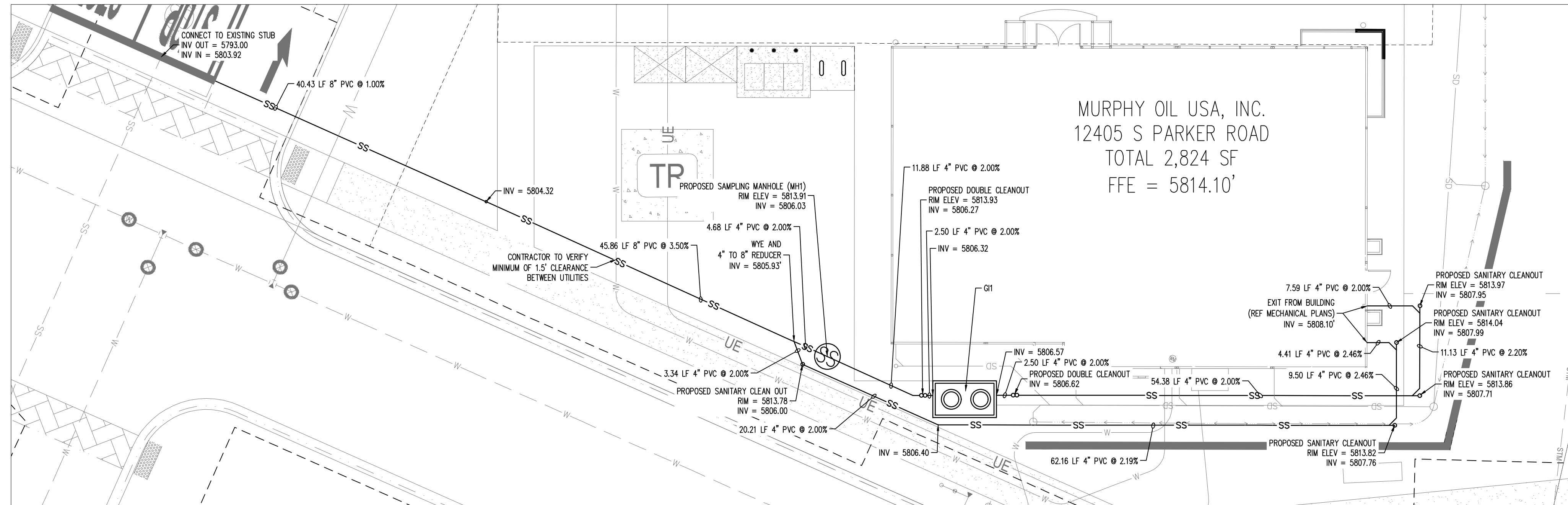
- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



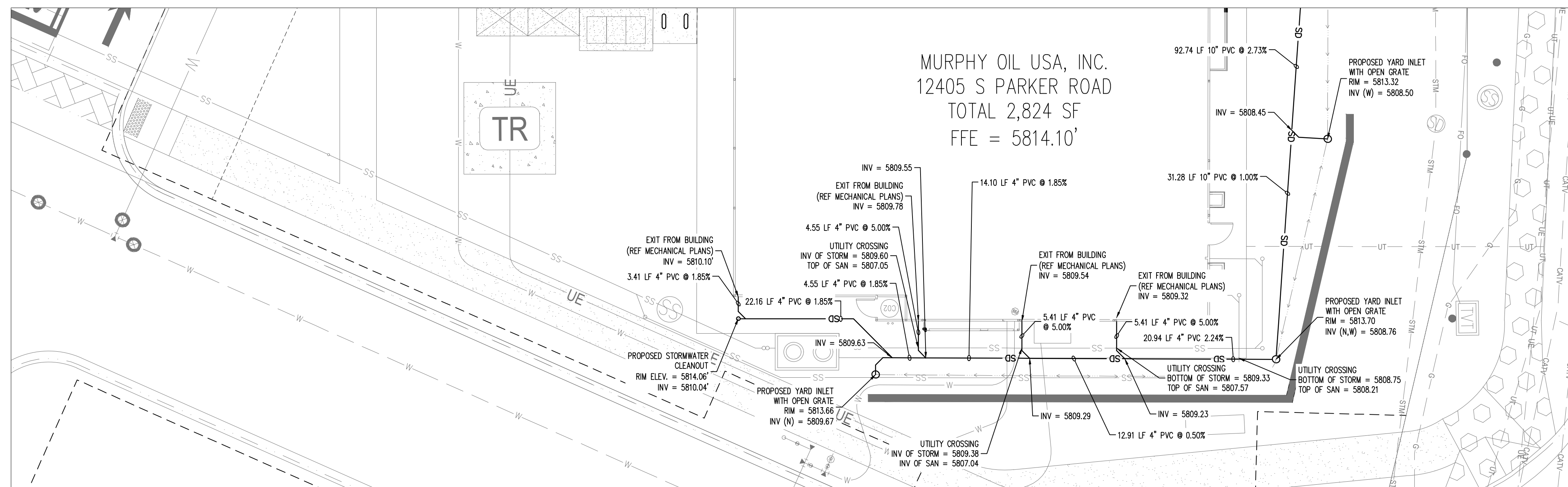
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SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.



SANITARY PLAN



STORM PLAN

Galloway

6162 S. Willow Drive, Suite 320
Engle, CO 80111
303.770.9848
GallowayUS.com

MURPHY OIL USA, INC.

200 PEACH STREET
EL DORADO, AR 71730



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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

PARKER AND PINE FILING NO. 1 LOT 2 – SITE PLAN

MURPHY OIL USA, INC.

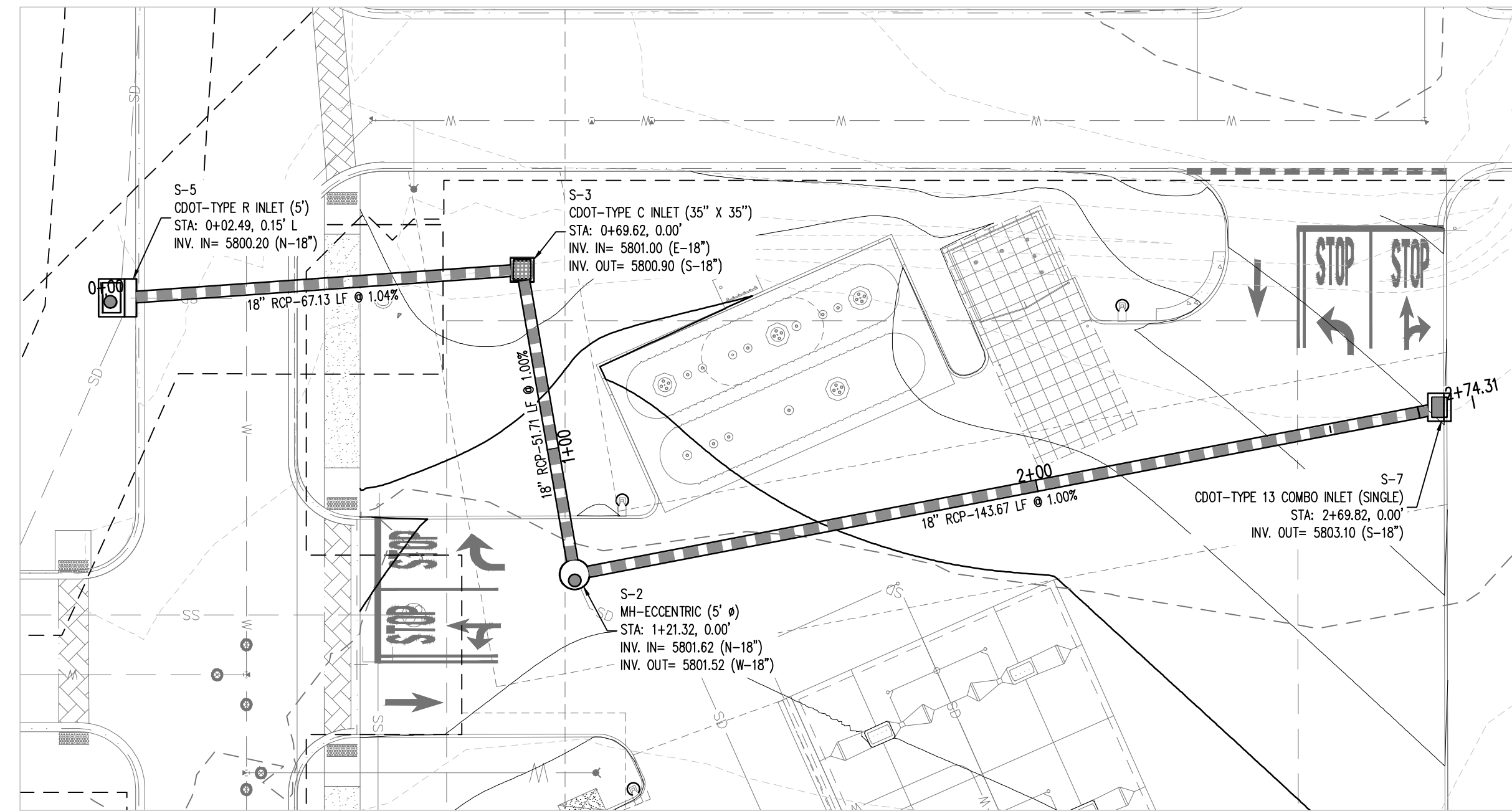
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE PLAN DOCUMENTS



Know what's below.
Call before you dig.

SHEET NO.
C-3.8



BASIS OF BEARING

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BENCHMARK

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SITE BENCHMARKS:

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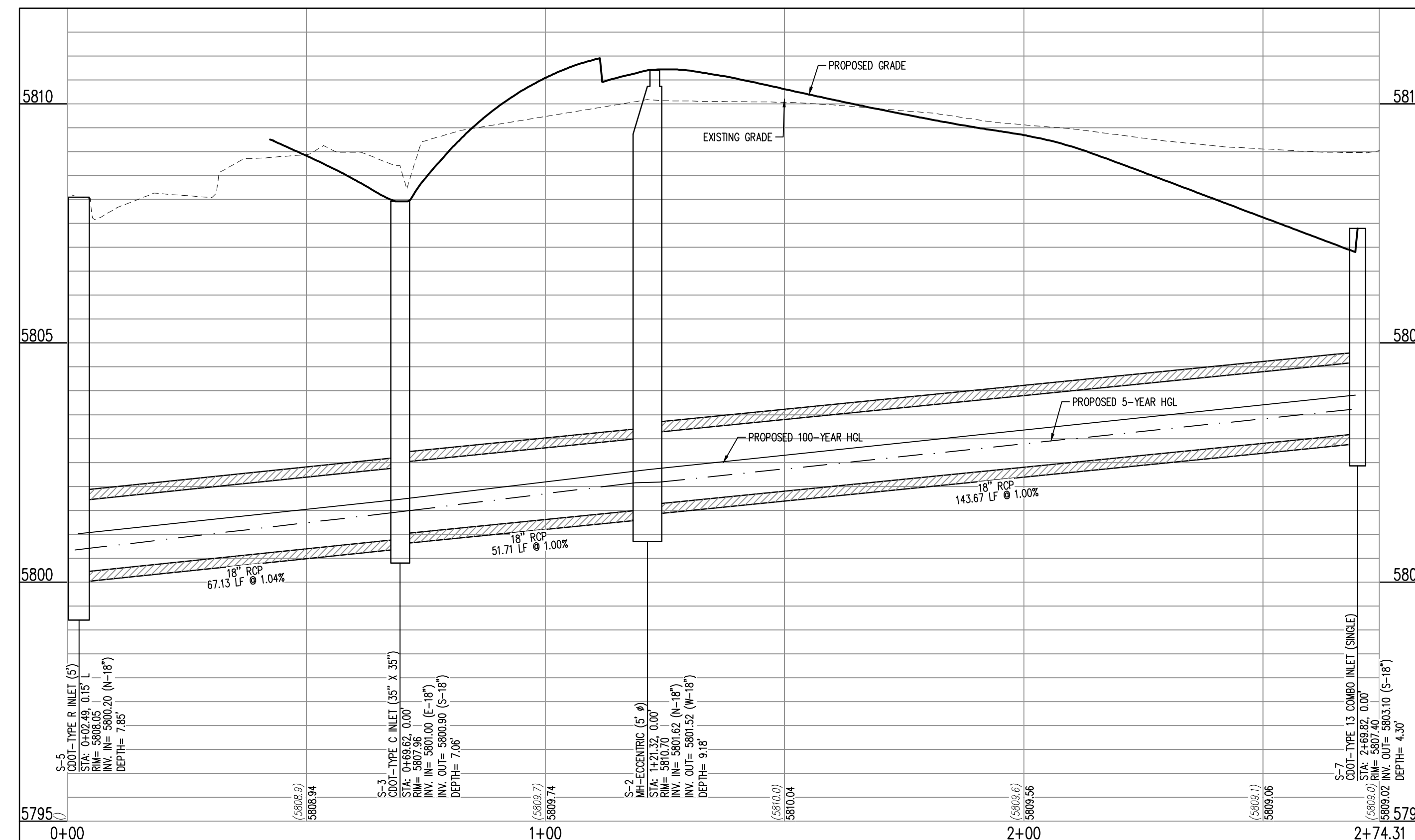
SITE BENCHMARK #2: #5 REBAR WITH 2" ALUMINUM; CAP STAMPED "PLS 36062"; EL = 5640.22

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UTILITY LEGEND

- w --- EXISTING WATER LINE
- ss --- EXISTING SANITARY SEWER
- ss --- PROPOSED SANITARY SEWER
- sd --- EXISTING STORM SEWER
- sd --- PROPOSED STORM SEWER
- rd --- PROPOSED ROOF DRAIN
- ⊙ PROPOSED MANHOLE
- ⊙ PROPOSED CLEANOUT
- ⊙ EXISTING GATE VALVE
- ⊙ PROPOSED GATE VALVE
- ⊙ EXISTING FIRE HYDRANT
- ⊙ PROPOSED HORIZONTAL BEND
- ⊙ PROPOSED FIRE HYDRANT
- ⊙ EXISTING INLET
- ⊙ PROPOSED INLET



STM A
STA: 0+00 - 2+74.31
SCALE: H: 1"=20' V: 1"=10'

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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

Galloway
6162 S. Willow Drive, Suite 320
Parker, Colorado 80111
303.770.9884
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730



OTB DATE PRN PM DES DRW
08/04/2021
STORM PLAN AND PROFILE
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER COLORADO



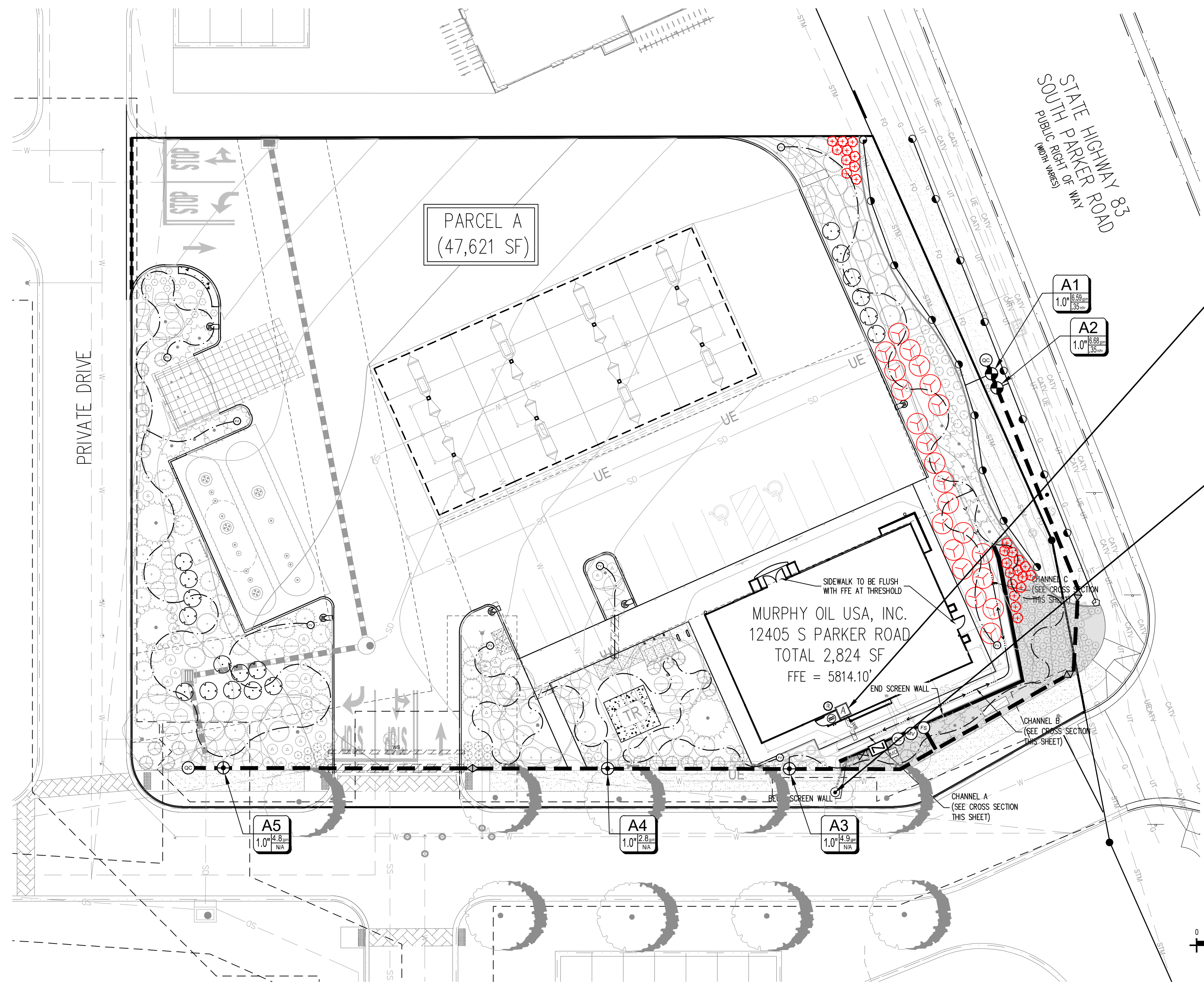
PARKER AND PINE FILING NO. 1 LOT 2

MURPHY OIL USA, INC.
A PORTION OF LOT 1, BLOCK 3 PARKER AUTO PLAZA FILING NO. 1
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE CONSTRUCTION PLANS

IRRIGATION CONTROLLER 'A'

VALVE NUMBER	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
VALVE SIZE	1.0"	1.0"	1.0"	1.0"	1.0"	OPEN	OPEN	OPEN	OPEN	OPEN
G.P.M.	6.6	6.7	4.9	2.8	4.8	OPEN	OPEN	OPEN	OPEN	OPEN
OPERATION PSI	40	40	40	40	40	OPEN	OPEN	OPEN	OPEN	OPEN
ZONE TYPE	ROTATOR	ROTATOR	DRIP	DRIP	DRIP	OPEN	OPEN	OPEN	OPEN	OPEN



CONTROLLER 'A' NOTE

- ONE (1) 10 STATION CONTROLLER. SEE LEGEND.
- FIVE (5) OPEN STATIONS FOR FUTURE EXPANSION.
- STATION RUN ORDER SHALL MATCH PLANS.
- LOCATE CONTROLLER IN THE UTILITY CLOSET AS SPECIFIED ON THE BUILDING PLANS. VERIFY LOCATION WITH OWNER OR REPRESENTATIVE.
- 120 VAC POWER TO CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLERS TO 120 VAC SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR.
- CONDUIT FROM INSIDE THE BUILDING TO EXTERIOR IRRIGATION SYSTEM SHALL BE PROVIDED BY OTHERS.

POINT OF CONNECTION 'A'

STATIC PRESSURE: +/- TBD
SIZE OF TAP: 3/4"

- USE 3/4" TAP AND INTO THE DOMESTIC WATER LINE DOWNSTREAM OF THE BUILDING METER.
- 3/4" TYPE K COPPER SERVICE FROM THE TAP THROUGH THE IRRIGATION BACKFLOW TO THE MASTER VALVE.
- CONTRACTOR SHALL VERIFY LOCATION OF THE EQUIPMENT. IN FIELD WITH OWNER OR OWNERS AUTHORIZED REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT.
- SEE POINT OF CONNECTION DIAGRAM, THIS SHEET, FOR THE IRRIGATION SYSTEM EQUIPMENT CONFIGURATION.
- THE IRRIGATION CONTRACTOR SHALL FIELD VERIFY THE STATIC & OPERATING WATER PRESSURE PRIOR TO CONSTRUCTION. SEE GENERAL IRRIGATION NOTES.
- WHEN WATER PRESSURE TO THE IRRIGATION SYSTEM EXCEEDS 100 PSI, THE IRRIGATION CONTRACTOR SHALL INSTALL A PRESSURE REDUCING / REGULATING VALVE (PRV) TO LIMIT THE WATER TO 80 PSI MAXIMUM. WHEN PRESSURE DROPS BELOW 65 PSI, THE IRRIGATION CONTRACTOR SHALL INSTALL A BOOSTER PUMP TO A MINIMUM PRESSURE OF 80 PSI.

CAUTION
UTILITIES EXIST WITHIN CONSTRUCTION LIMITS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING UTILITIES PRIOR TO CONSTRUCTION.

IRRIGATION LEGEND

SYMBOL	MANUF.	MODEL NO.	DESCRIPTION	REMARKS/DETAIL
CONTROLLERS AND SENSORS				
A	HUNTER	I-CORE 10 STATION	IRRIGATION CONTROLLER TO BE A HUNTER IC-1000-M, WITHIN METAL VANDAL RESISTANT LOCKABLE PEDESTAL CABINET. IRRIGATION CONTROLLER TO BE LOCATED AS DIRECTED BY OWNER OR OWNERS REPRESENTATIVE.	DETAIL 1 / IR1.2
B	HUNTER	SOLAR-SYNC	ET/RAIN/FREEZE SENSOR - MOUNT PER DETAIL AND PLAN LOCATION	DETAIL 4 / IR1.2

POINT OF CONNECTION

M	PER CITY OR WATER DISTRICT CODES AND STANDARDS	3/4" POINT OF CONNECTION, REFERENCE CIVIL PLANS FOR TAP LOCATION.	SEE P.O.C. DIAGRAM THIS SHEET
N	PER CITY OR WATER DISTRICT CODES AND STANDARDS	IRRIGATION METER, REFERENCE CIVIL PLANS FOR METER LOCATION.	SEE P.O.C. DIAGRAM THIS SHEET
Z	FEBCO MODEL 825YA	3/4" BACKFLOW PREVENTER-MOUNT IN GUARDSHACK MODEL #GS-1 W/ FROST GUARD BAG MODEL #FG-1 FOR WINTERIZATION, SEE POINT OF CONNECTION SCHEMATIC DIAGRAMS	DETAIL 2 / IR1.2

VALVES

MV	HUNTER	IBV-101G-FS	1" MASTER VALVE	DETAIL 2 / IR1.3
FS	FLOMEC	QS200-10	1" ULTRASONIC FLOWMETER WITH 1" PVC TEE RECEPTACLE	DETAIL 16 / IR1.2
+	HUNTER	ICV-FS-ADJ	REMOTE CONTROL VALVE. SIZE PER PLAN. ADJUST PRESSURE REGULATOR BETWEEN 60-85PSI. GROUP VALVES TO FIT WITHIN WATER SCHEDULES/MAXIMIZE AVAILABLE GPMs.	DETAIL 3 / IR1.2
+	RAINBIRD	XCZ-100-PRB-COM (0.3-20 GPM)	DRIP CONTROL ZONE KITS (24 VAC-60Hz)-IRRIGATION CONTRACTOR TO VERIFY DRIP ZONES PRESSURE REQUIREMENTS AND USE VALVE REGULATOR FOR HIGH PRESSURES. GROUP VALVES TO FIT WITHIN WATER SCHEDULES/MAXIMIZE AVAILABLE GPMs.	DETAIL 5 / IR1.2
QC	HUNTER	HQ-44-LRC	1" QUICK COUPLER WITH LOCK	DETAIL 9 / IR1.2
+	HUNTER	AFV-B	AUTOMATIC FLUSH VALVE WITH BARB CONNECTION.	DETAIL 13 / IR1.3
+	WATTS	WGV-X	GATE VALVE. SEE POINT OF CONNECTION SCHEMATIC DIAGRAMS	DETAIL 7 / IR1.2
+	ANY APPROVED	ANY APPROVED	PVC BALL VALVE - SIZE PER MAINLINE SIZE	DETAIL 11 / IR1.2

MAIN LINE / LATERALS & SLEEVES

---	ANY APPROVED	PRESSURIZED PVC MAINLINE - 1-1/2" CLASS 200 PVC PIPE UNLESS OTHERWISE NOTED ON THE PLANS	DETAIL 10 / IR1.2
---	ANY APPROVED	LATERAL LINE - USE CLASS 200 PVC. SIZE 1"-INCH SIZE UNLESS OTHERWISE NOTED ON THE PLANS. INSTALL ANTI-FREEZE DRAINS AT LOW POINTS	DETAIL 10 / IR1.2
---	ANY APPROVED	IRRIGATION SLEEVE - SCHEDULE 40 PVC TWICE THE SIZE OF THE PIPE TO BE INSERTED, ONE SLEEVE PER PIPE	DETAIL 10 / IR1.2
---	ANY APPROVED	CONTROL WIRING SLEEVE - 2" SCHEDULE 40 PVC PIPE (SEE WIRING/SPLICING/SLEEVE NOTE, THIS SHEET)	DETAIL 10 / IR1.2

ROTORS & SPRAY HEADS

+	HUNTER	PROS-06-CVMP1000-90 (TURF) PROS-12-CVMP1000-90 (SEED)	MP ROTATOR-QUARTER	MAROON	8'-13"	0.16	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP1000-90 (TURF) PROS-12-CVMP1000-90 (SEED)	MP ROTATOR-135°	MAROON	8'-13"	0.24	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP1000-90 (TURF) PROS-12-CVMP1000-90 (SEED)	MP ROTATOR-HALF	MAROON	8'-13"	0.32	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP1000-90 (TURF) PROS-12-CVMP1000-90 (SEED)	MP ROTATOR-FULL	OLIVE	8'-13"	0.65	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP3000-90 (TURF) PROS-12-CVMP3000-90 (SEED)	MP ROTATOR-QUARTER	BLUE	20'-28"	0.74	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP3000-90 (TURF) PROS-12-CVMP3000-90 (SEED)	MP ROTATOR-135°	BLUE	20'-28"	1.29	40	DETAIL 1 / IR1.3
+	HUNTER	PROS-06-CVMP3000-90 (TURF) PROS-12-CVMP3000-90 (SEED)	MP ROTATOR-HALF	BLUE	20'-28"	1.58	40	DETAIL 1 / IR1.3

SPRAY NOTES:
1. CONTRACTOR SHALL USE RADIUS REDUCTION SCREWS ON MP ROTATORS AS NECESSARY TO ACHIEVE APPROPRIATE RADII COVERAGE.

DRIP SYSTEM

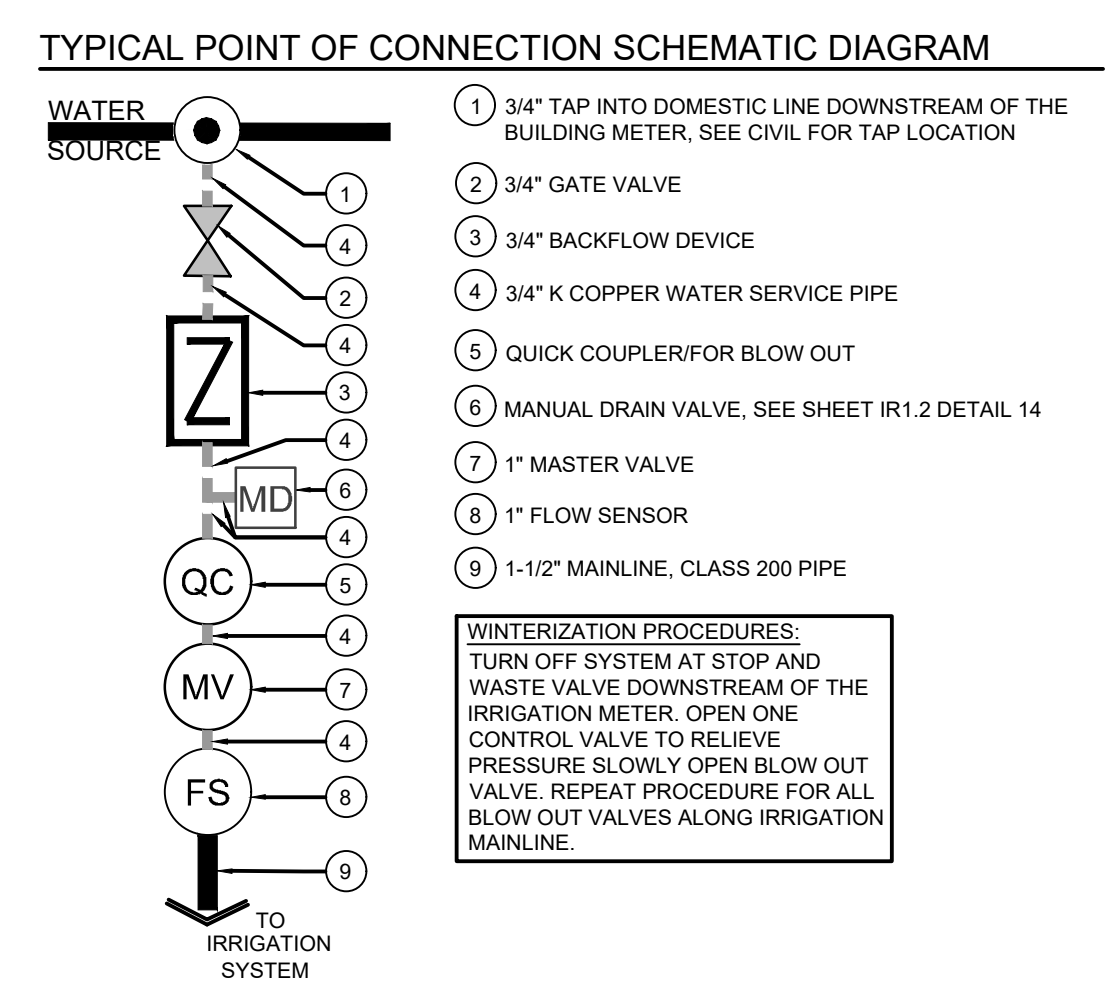
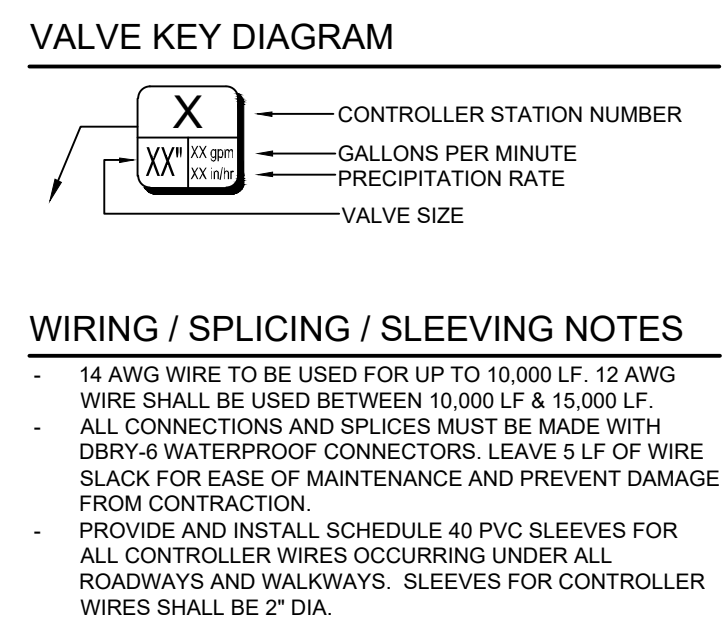
+	RAINBIRD	FOR LANDSCAPE BED AREAS - XBS-XXX	XERI BLACK STRIPE POLY TUBING (OR APPROVED EQUAL). CONNECTION TO PVC LATERAL PER CONTRACTOR. ATTACH TREE & SHRUB DRIP EMITTERS PER THE EMITTER SCHEDULE BELOW. USE 3/4-INCH POLY TUBING SIZE UNLESS OTHERWISE NOTED. FLOWS IN GPM FOR LINE CHANGES SHALL BE: (3/4"-1 TO 7 GPM), (1"-8 TO 14 GPM), (1-1/2"-15 TO 35 GPM). INSTALL SEVERAL IN-LINE CHECK VALVES IN ZONES W/ LARGE ELEVATION DIFFERENCES. GROUP DRIP CONTROLLER VALVES TOGETHER TO MAXIMIZE WATER WINDOWS.	DETAIL 8 / IR1.2
+	HUNTER	AFV-B	AUTOMATIC FLUSH VALVE WITH BARB CONNECTION.	DETAIL 13 / IR1.2

IRRIGATION DISCLAIMER

- IRRIGATION DESIGN IS NOT AN EXACT SCIENCE. IT IS BASED ON THEORIES, ASSUMPTIONS, AND/OR INFORMATION PROVIDED BY CIVIL MODELS/UTILITIES/MUNICIPALITIES ENTITIES AND THIS DIAGRAMMATIC IN NATURE.
- CONTRACTOR SHALL INSTALL MAINLINES 12" FROM PAVEMENT EDGE IN PLANTING AREAS. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS AS INDICATED ON THESE PLANS.
- THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE AND VISIBLE IRRIGATION EQUIPMENT (CONTROLLERS, BACKFLOW PREVENTERS, METER PITS, ETC.) WITH THE OWNER'S AUTHORIZED REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE INSTALLATION OF THESE ITEMS SHALL BE INTEGRATED WITHIN DESIGNATED LANDSCAPE AREAS. FAILURE TO LOCATE THIS EQUIPMENT IN AN APPROVED LOCATION MAY RESULT IN THE IRRIGATION CONTRACTOR BEING REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS. THE IRRIGATION CONTRACTOR SHALL FIELD VERIFY THE STATIC & OPERATING WATER PRESSURE TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.
- ALL PRESSURIZED MAINLINES, VALVES, DRIP, AND ROTOR AND SPRAY HEADS SHALL BE INSTALLED A MINIMUM OF 5' AWAY FROM ANY BUILDING FOUNDATION. ADDITIONAL REQUIREMENTS MAY BE LISTED IN THE GEOTECHNICAL REPORT REGARDING IRRIGATION NEAR BUILDING FOUNDATIONS. CONTRACTOR IS RESPONSIBLE TO ABIDE BY THE 5' MINIMUM DISTANCE AND/OR THE GEOTECHNICAL REPORT REQUIREMENTS. IF THIS EQUIPMENT IS SHOWN WITHIN THE 5' OFFSET ON THESE PLANS, IT IS FOR THE PURPOSE OF GRAPHIC CLARITY ONLY.
- REFER TO SHEET IR1.2 FOR IRRIGATION DETAILS AND IR1.3 FOR IRRIGATION NOTES.

UTILITY NOTES

- THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION.
- THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE, AND REVIEWING ALL RELATED DOCUMENTS.
- THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT. THE MOST CURRENT REVISION IS HERE IN MADE PART OF THIS DOCUMENT. UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.



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TOWN OF PARKER, DIRECTOR OF ENGINEERING _____ DATE _____

SHEET NO. IR1.1

IRRIGATION PLAN
MURPHY EXPRESS
12405 SOUTH PARKER ROAD
PARKER COLORADO

Galloway
6162 S. Willow Drive, Suite 320
Denver, CO 80111
303.770.9848
GallowayUS.com

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730

MURPHY USA

PARKER AND PINE FILING NO. 1 LOT 2

MURPHY OIL USA, INC.

A PORTION OF LOT 1, BLOCK 3 PARKER AUTO PLAZA FILING NO. 1
 LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH P.M.
 TOWN OF PARKER, DOUGLAS COUNTY, STATE OF COLORADO

SITE CONSTRUCTION PLANS



Know what's below.
 Call before you dig.

SHEET NO.

IR1.2

REV-0 07/12/2021 DATE PRN PM DES DRW

IRRIGATION DETAILS
 MURPHY EXPRESS
 12405 SOUTH PARKER ROAD
 PARKER COLORADO

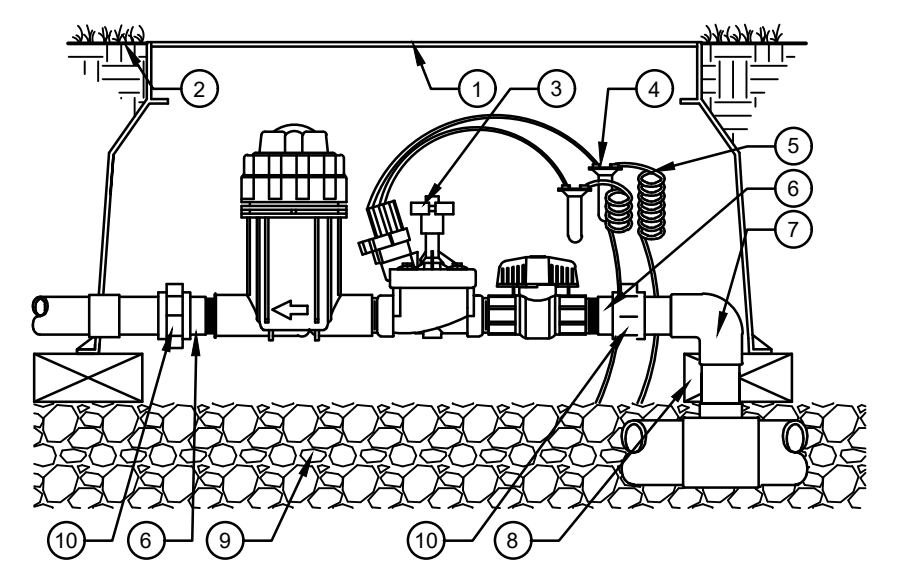
Galloway

6162 S. Willow Drive, Suite 320
 Littleton, CO 80111
 303.770.8844
 GallowayUS.com

MURPHY OIL USA, INC.

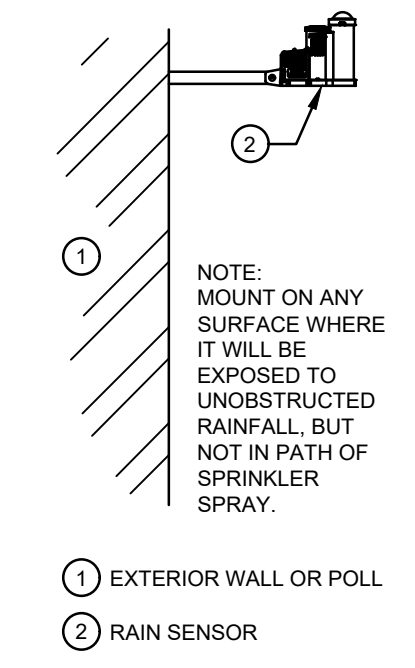
200 PEACH STREET
 EL DORADO, AR 71730

MURPHY USA

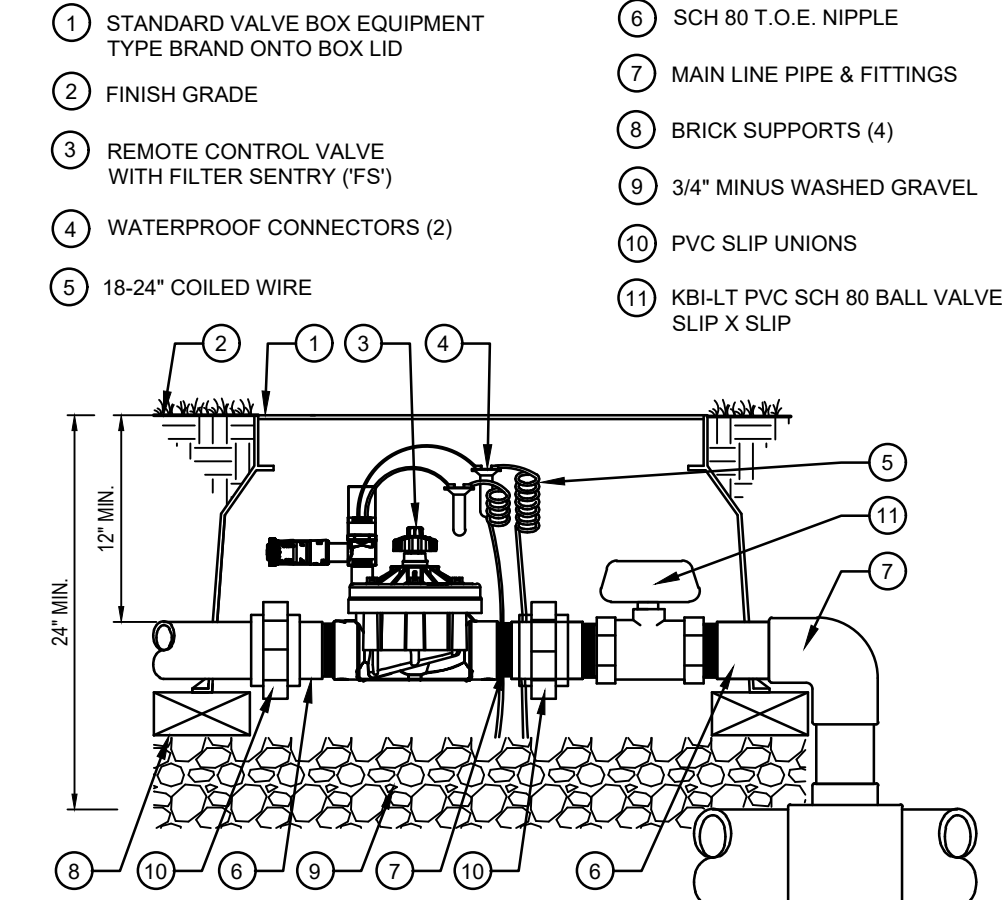


- 1 STANDARD VALVE BOX, BRAND EQUIPMENT TYPE AND ZONE NUMBER ONTO LID
- 2 FINISH GRADE
- 3 DRIP ZONE KIT PER PLAN
- 4 WATERPROOF CONNECTORS (2)
- 5 18-24" COILED WIRE
- 6 SCH 80 T.O.E. NIPPLE
- 7 MAIN LINE PIPE & FITTINGS
- 8 BRICK SUPPORTS (4)
- 9 6" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL
- 10 PVC SLIP UNIONS

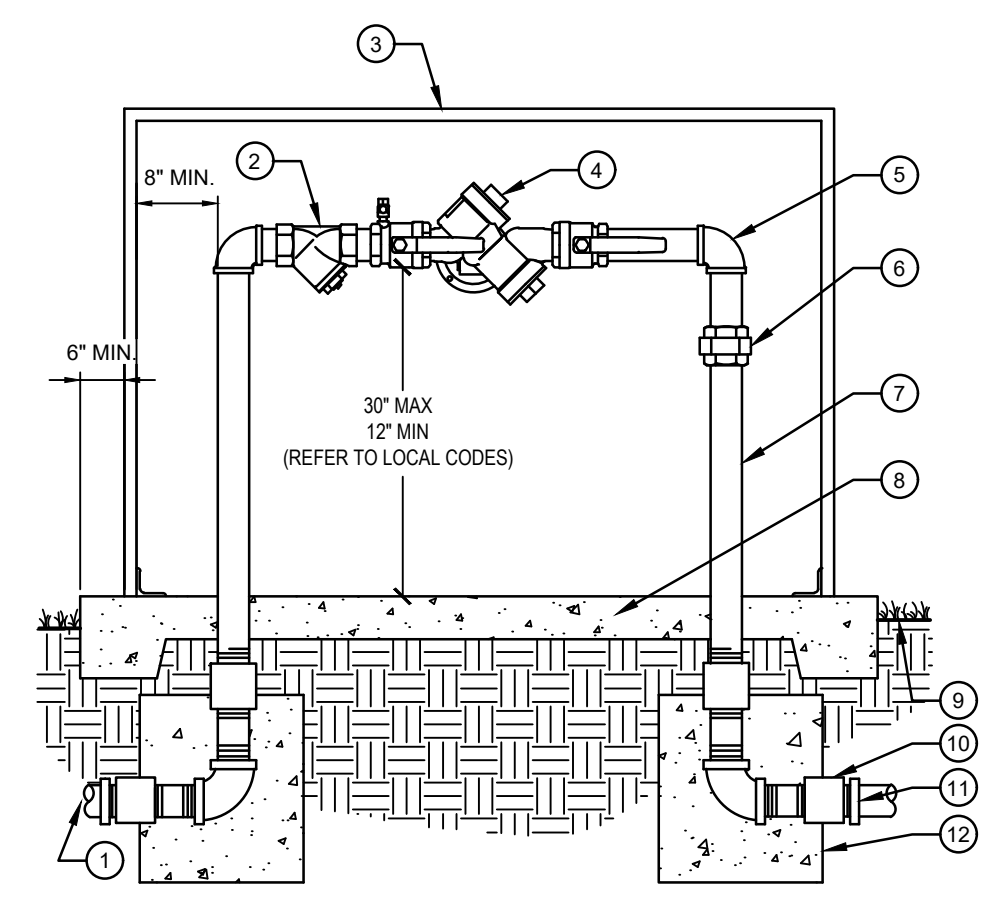
5 REMOTE DRIP CONTROL VALVE
 SCALE: NOT TO SCALE



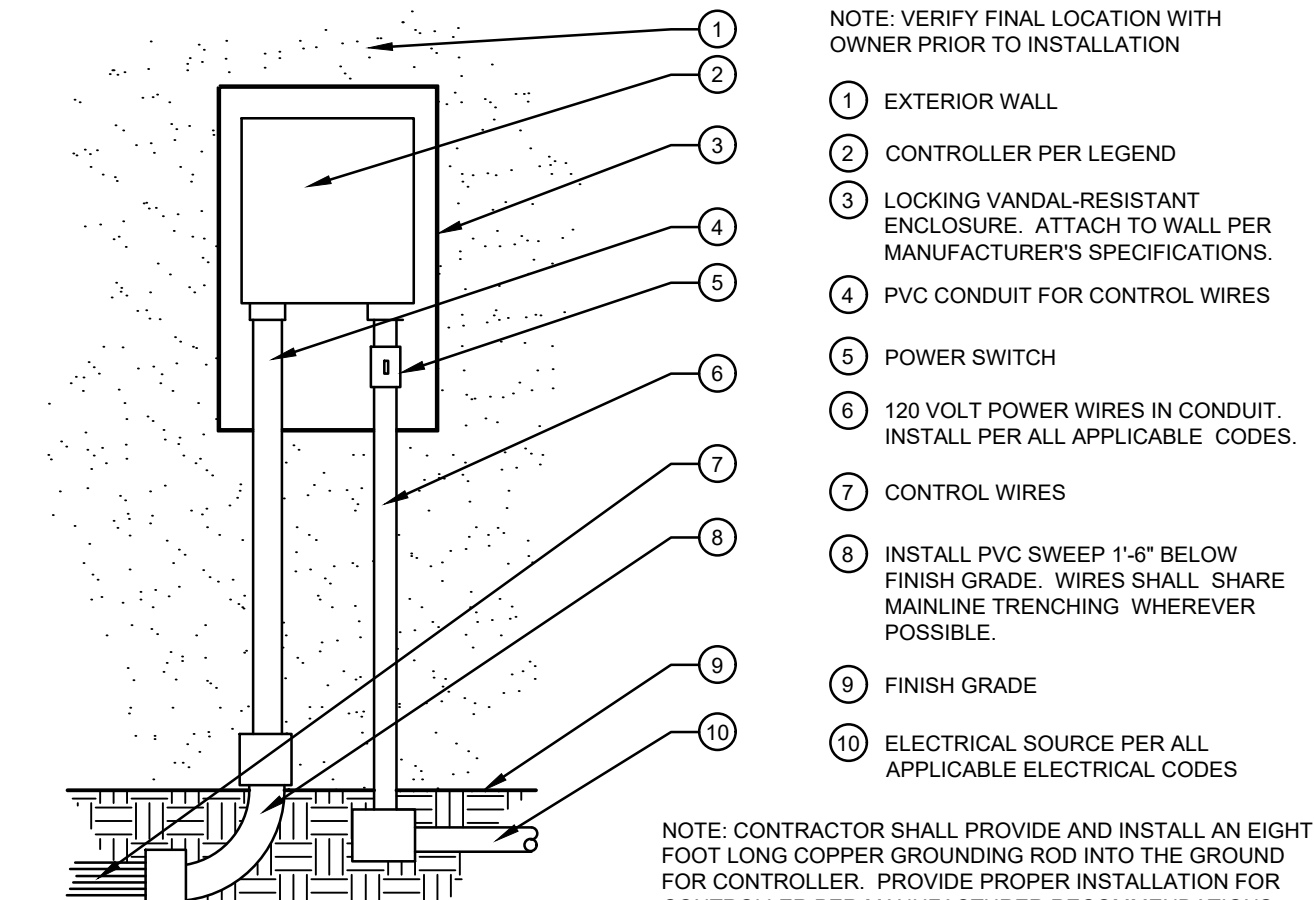
4 WEATHER SENSOR
 SCALE: NOT TO SCALE



3 REMOTE CONTROL VALVE
 SCALE: NOT TO SCALE



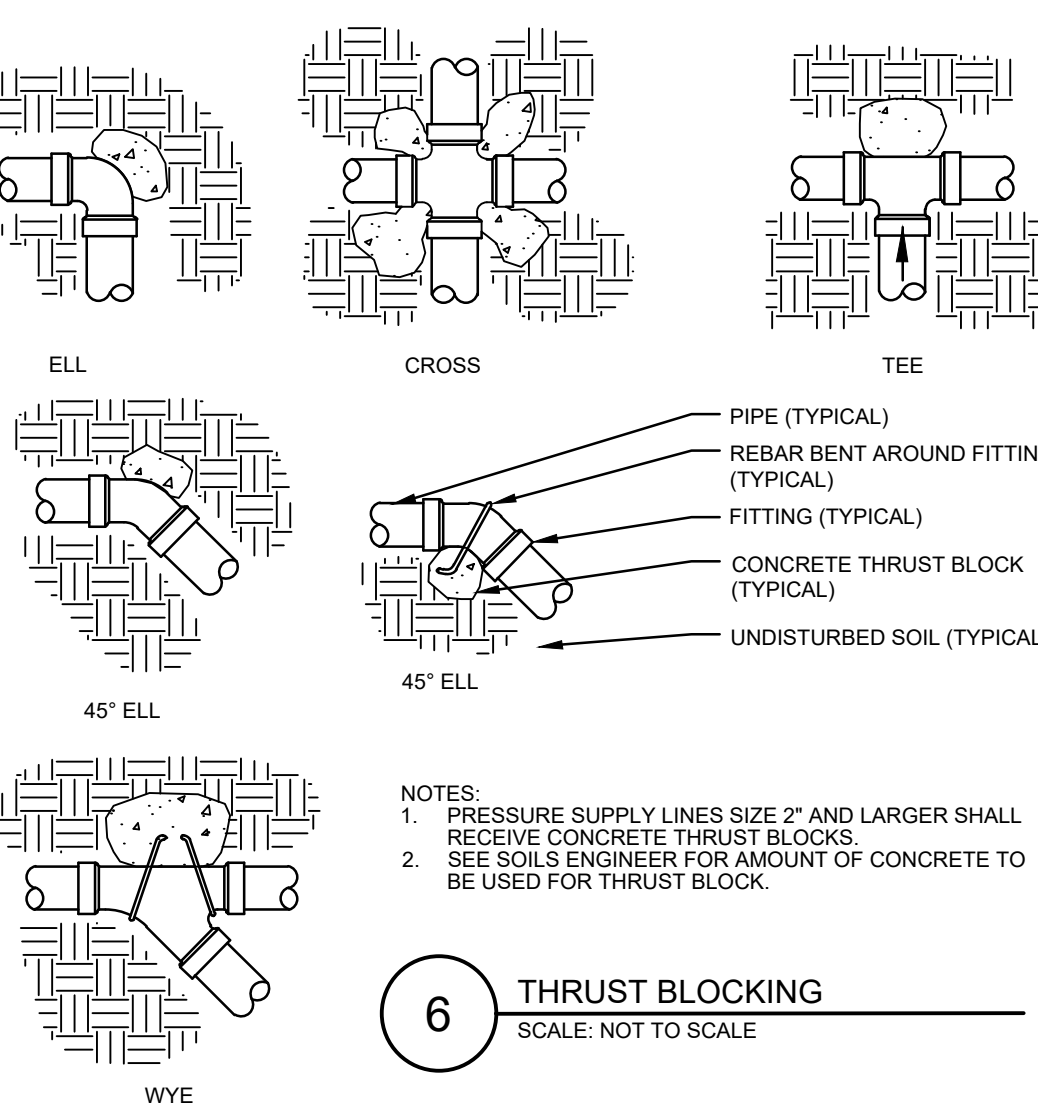
2 BACKFLOW PREVENTER, REDUCED PRESSURE
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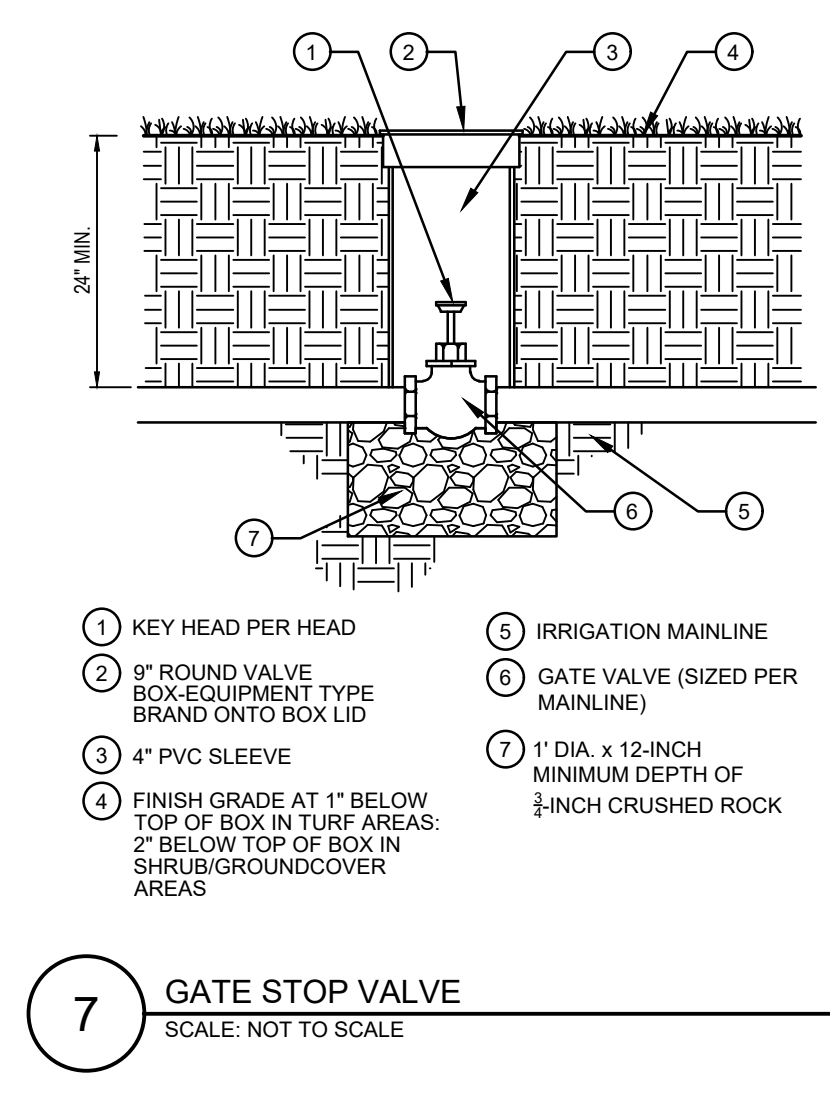
1 WALL MOUNT CONTROLLER
 SCALE: NOT TO SCALE

- NOTE: VERIFY FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION
- 1 EXTERIOR WALL
 - 2 CONTROLLER PER LEGEND
 - 3 LOCKING VANDAL-RESISTANT ENCLOSURE. ATTACH TO WALL PER MANUFACTURER'S SPECIFICATIONS.
 - 4 PVC CONDUIT FOR CONTROL WIRES
 - 5 POWER SWITCH
 - 6 120 VOLT POWER WIRES IN CONDUIT. INSTALL PER ALL APPLICABLE CODES.
 - 7 CONTROL WIRES
 - 8 INSTALL PVC SWEEP 1'-6" BELOW FINISH GRADE. WIRES SHALL SHARE MAINLINE TRENCHING WHEREVER POSSIBLE.
 - 9 FINISH GRADE
 - 10 ELECTRICAL SOURCE PER ALL APPLICABLE ELECTRICAL CODES

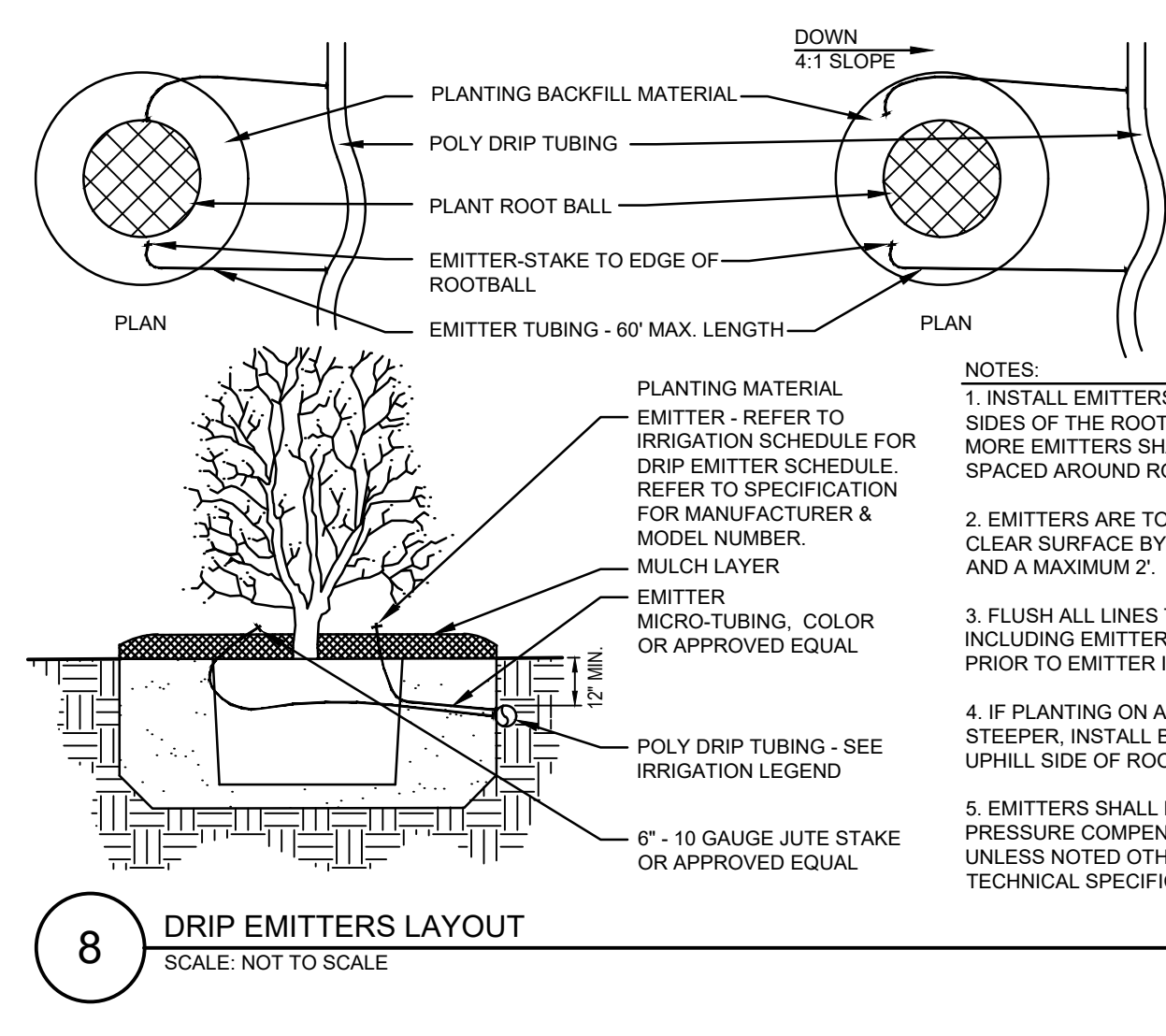
NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL AN EIGHT FOOT LONG COPPER GROUNDING ROD INTO THE GROUND FOR CONTROLLER. PROVIDE PROPER INSTALLATION FOR CONTROLLER PER MANUFACTURER RECOMMENDATIONS.



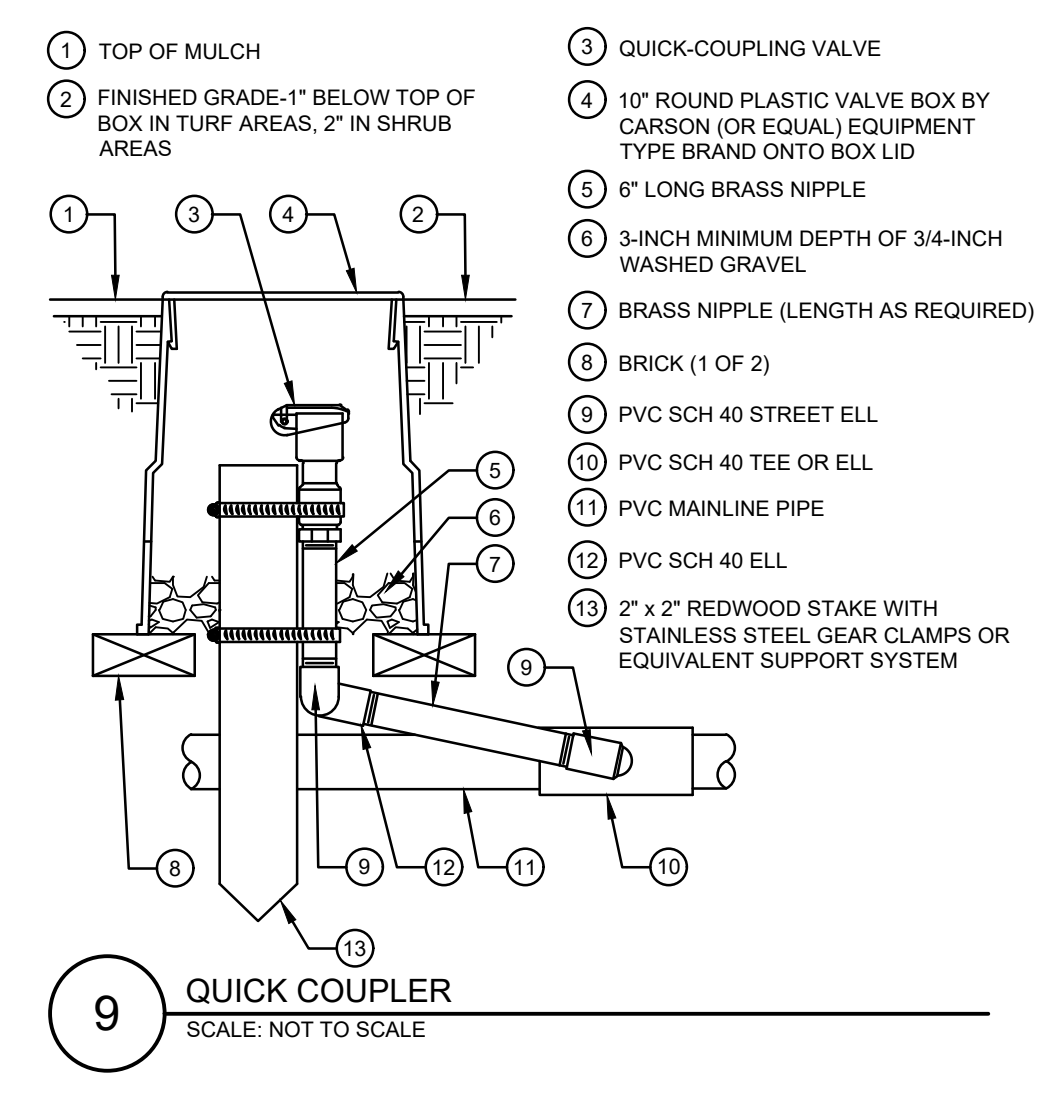
6 THRUST BLOCKING
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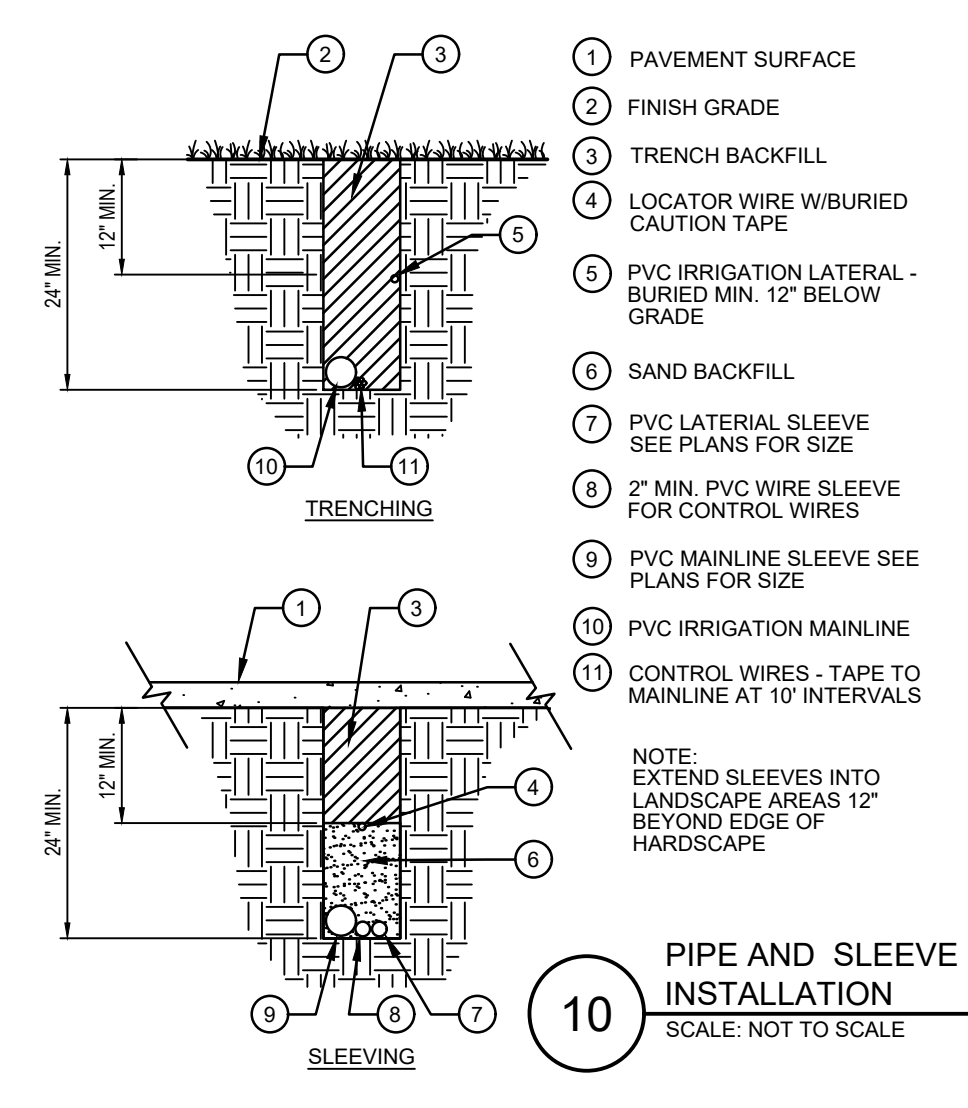
7 GATE STOP VALVE
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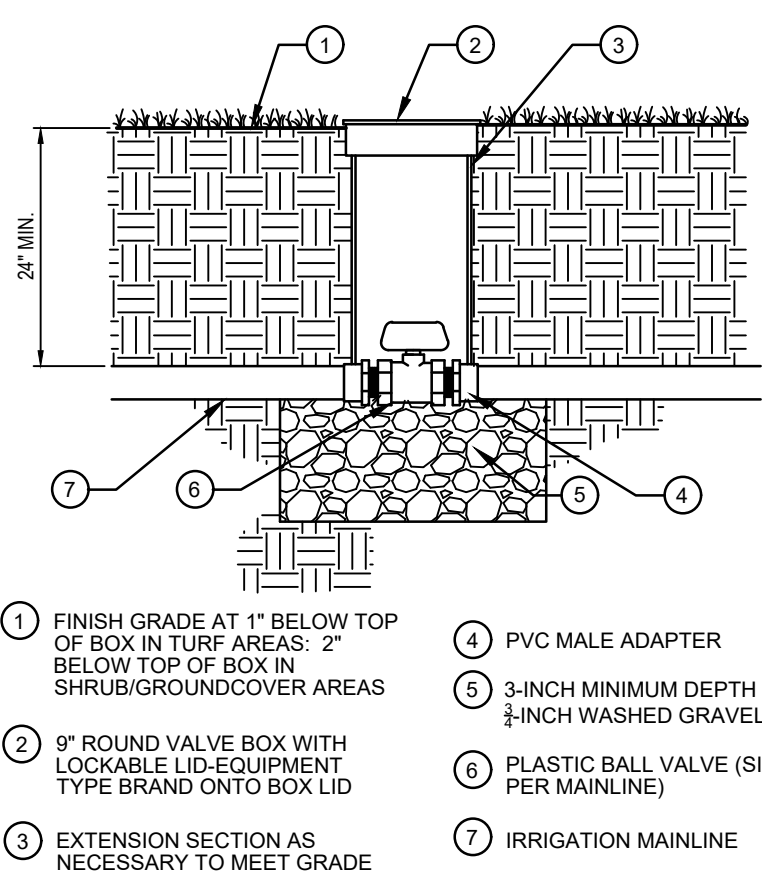
8 DRIP EMITTERS LAYOUT
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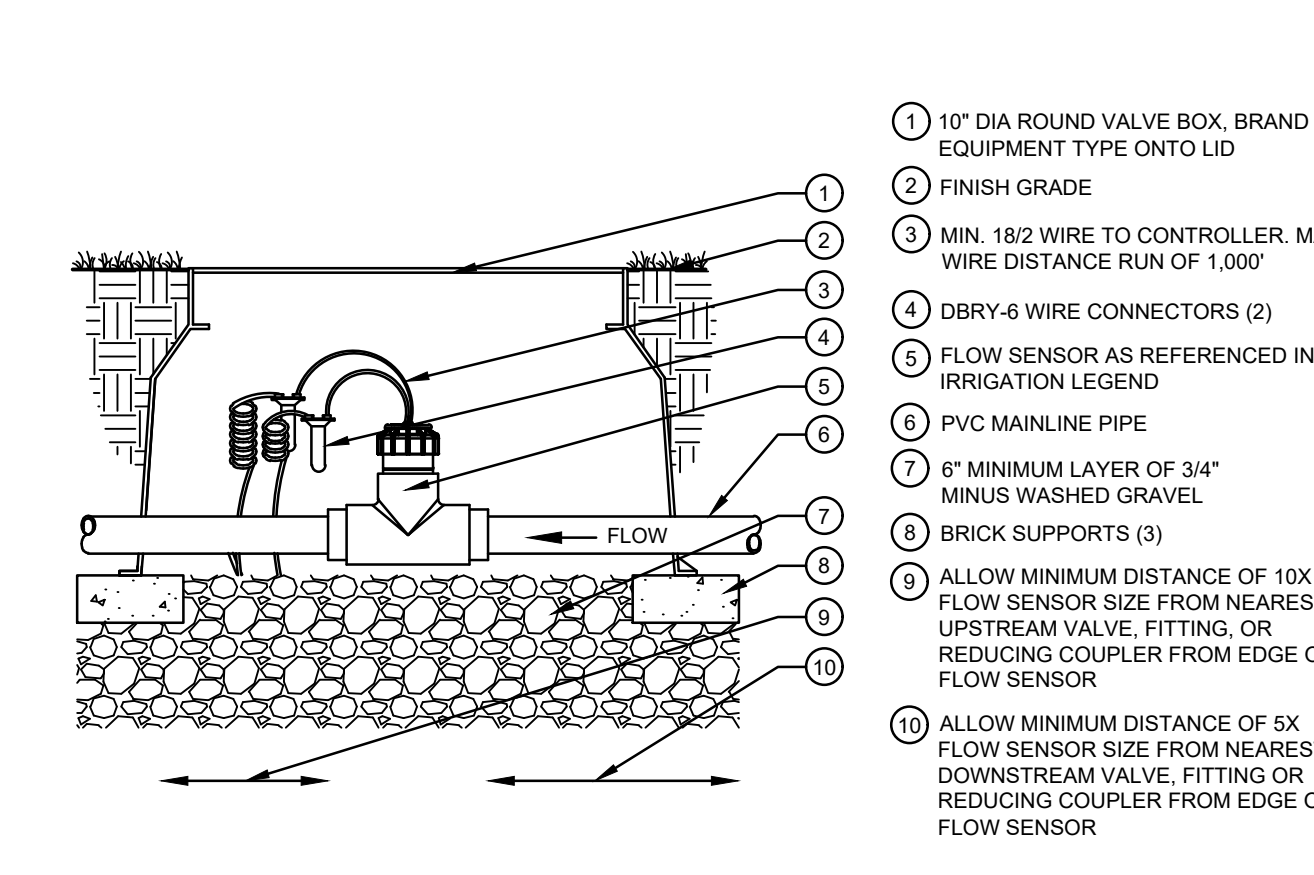
9 QUICK COUPLER
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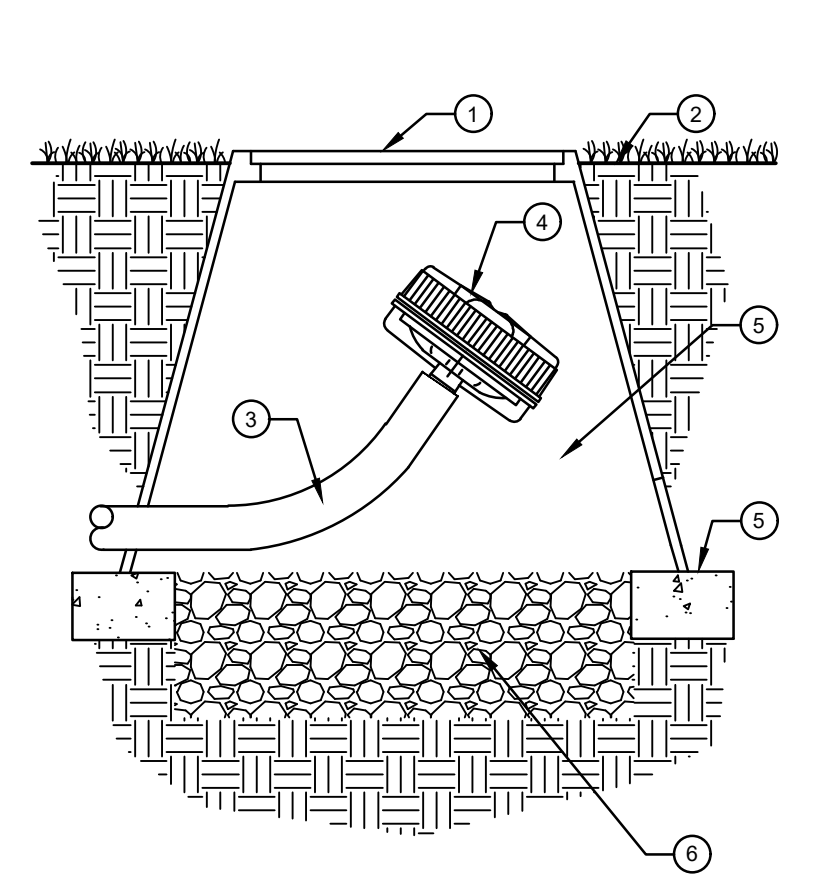
10 PIPE AND SLEEVE INSTALLATION
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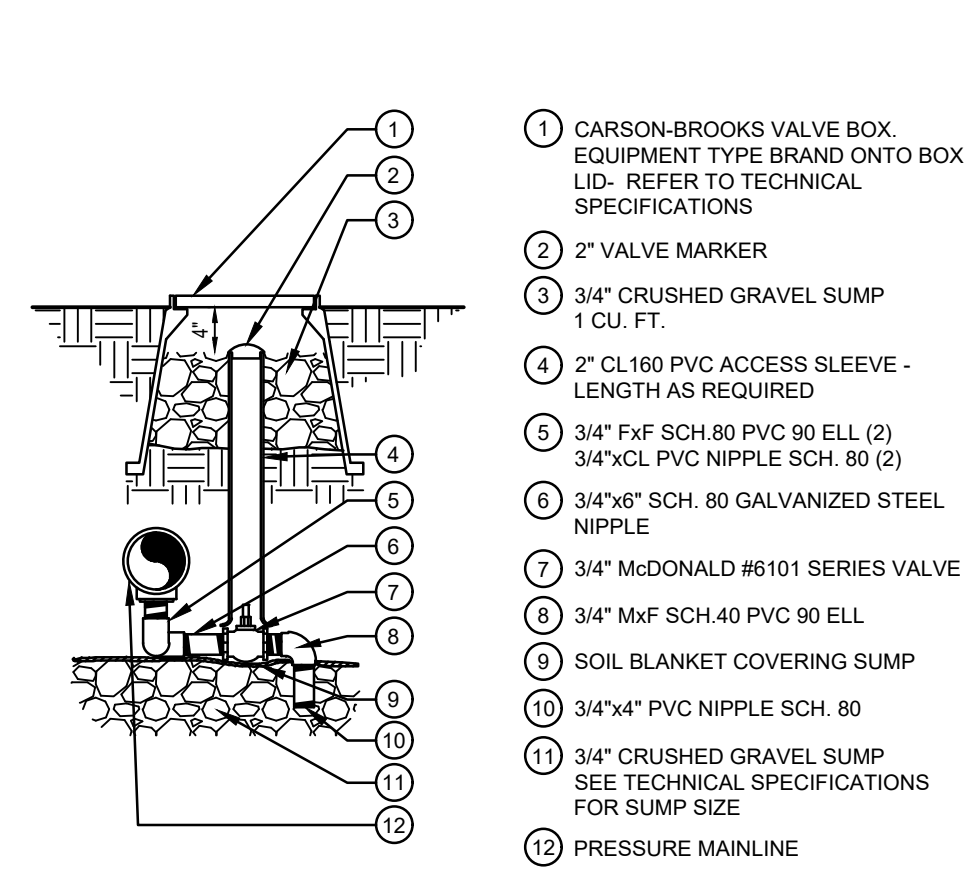
11 PLASTIC BALL VALVE
 SCALE: NOT TO SCALE



12 FLOW SENSOR
 SCALE: NOT TO SCALE



13 FLUSH DRAIN VALVE
 SCALE: NOT TO SCALE



14 MANUAL DRAIN VALVE
 SCALE: NOT TO SCALE

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TOWN OF PARKER, DIRECTOR OF ENGINEERING DATE

