

ADVENTHEALTH PARKER EXPANSION

CROWN POINT FILING 1 AMMENDMENT 30, LOT 1, TRACT A & B
SITUATED IN THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN,
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

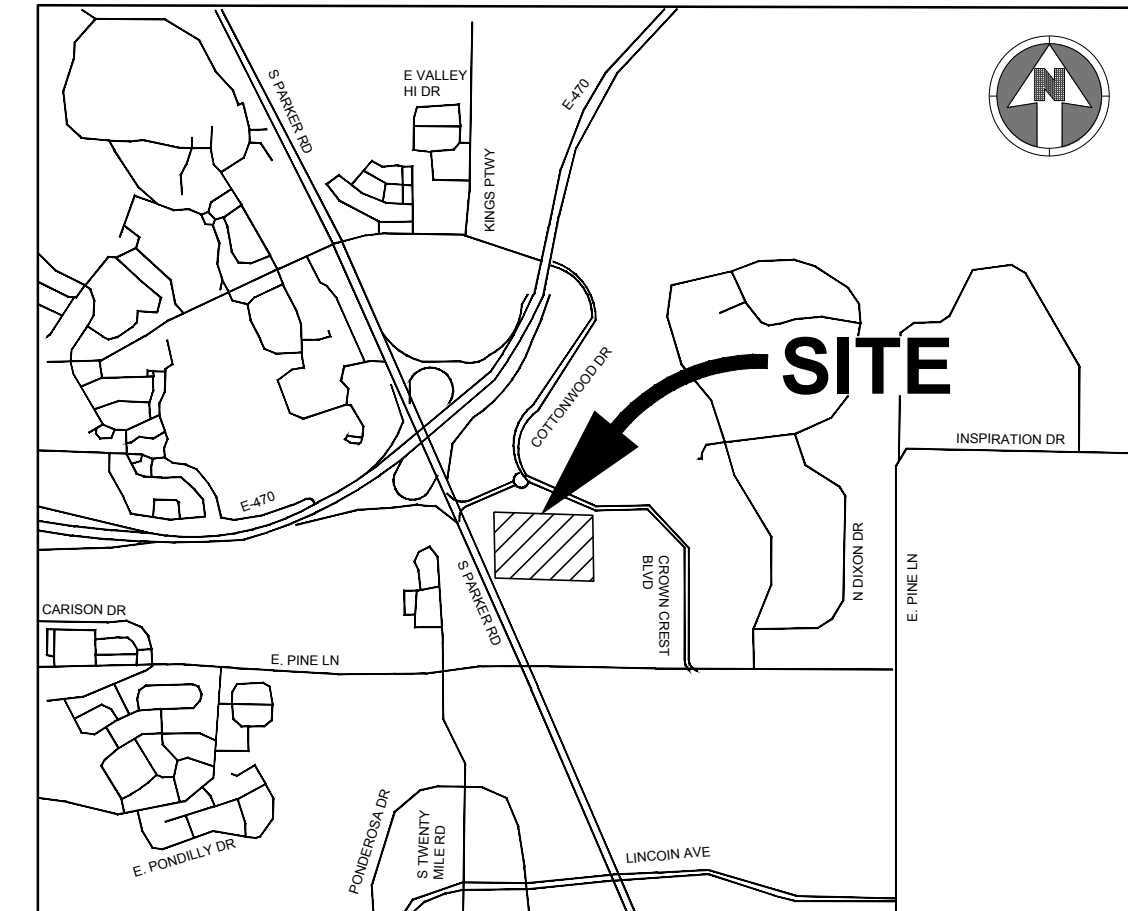


ENGINEER'S STATEMENT

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF COLORADO.

MEGAN HUERTER VOGT
REGISTERED PROFESSIONAL ENGINEER
COLORADO NO. 47666

DATE SIGNED _____



VICINITY MAP
SCALE: 1"=2000'

Sheet Number	Sheet Title
A-C500	WATER AND SANITARY COVER SHEET
A-C501	WATER AND SANITARY NOTES AND LEGEND
A-C511	UTILITY PLAN
A-C512	UTILITY PLAN
A-C531	SANITARY PLAN AND PROFILE
A-C532	SANITARY PLAN AND PROFILE
A-C533	WATER PLAN AND PROFILE
A-C551	WATER AND SANITARY DETAILS
A-C552	WATER AND SANITARY DETAILS
A-C553	WATER AND SANITARY DETAILS
A-C111*	DEMOLITION PLAN
A-C112*	DEMOLITION PLAN

SHEET LIST NOTE: DEMOLITION PLANS INCLUDED FOR REFERENCE*

GENERAL NOTES :

- NO VERTICAL CONSTRUCTION ON THIS SITE WILL BE ALLOWED UNTIL SUCH TIME THAT CURB, GUTTER, AND FIRST LIFT ASPHALT ARE INSTALLED. A SITE INSPECTION WILL BE REQUIRED TO ENSURE THAT THIS REQUIREMENT IS MADE PRIOR TO ALLOWING VERTICAL CONSTRUCTION TO COMMENCE

FIRE FLOW BLOCK

TOTAL FIRE FLOW REQUIRED FOR THIS SITE IS 1,500 GPM MINIMUM @ 20 PSI RESIDUAL PRESSURE
THIS FLOW MUST BE PROVIDED FROM A MINIMUM OF 1 FIRE HYDRANTS INDIVIDUALLY. EACH FIRE HYDRANT MUST SUPPLY 1500 GPM MINIMUM @ 20 PSI RESIDUAL PRESSURE

CODE USED FOR ANALYSIS: 2021 IFC WITH APPENDICES B, C AND D

OCCUPANCY TYPE: I-2

CONSTRUCTION TYPE: IA

FIRE FLOW CALCULATION AREA: 80,390 SF
TOTAL BUILDING AREA: 186,225 SF

BUILDING IS ANTICIPATED TO BE CONSTRUCTED WITH AN AUTOMATED FIRE SPRINKLER SYSTEM (NFPA 13) SO FIRE FLOW REQUIREMENT HAS BEEN REDUCED BY 50%.

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.)

MATERIALS LIST	
ITEM	QUANTITY
12" DIP	306 LF
8" DIP	74 LF
6" DIP	97 LF
4" DIP	137 LF
FIRE HYDRANT	3
4" WATER METER	1
12" GATE VALVE	2
8" GATE VALVE	1
6" GATE VALVE	3
4" GATE VALVE	1
12"x12" TEE	1
12"x6" TEE	2
12"x8" TEE	1
12"x4" TEE	1
45" BEND	1
22.5" BEND	2
11.25" BEND	1
VERTICAL BEND	4
10" PVC	923
4" MANHOLE	6
DUAL CLEANOUT	1

COTTONWOOD WATER AND SANITATION DISTRICT SIGNATURE

THE DISTRICT ENGINEER AND MANAGER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. CALL DISTRICT ENGINEER, AT 303-649-9857. THE DISTRICT ENGINEER AND SUPPORTING STAFF WILL OBSERVE THE WORK FOR COMPLIANCE WITH THE DISTRICT SPECIFICATIONS. THE DEVELOPER/OWNER WILL BE CHARGED FOR CONSTRUCTION OBSERVATION AND BE BILLED BY THE DISTRICT. PAYMENT MUST BE RECEIVED IN FULL PRIOR TO FINAL ACCEPTANCE OF THE NEW LINES. CONSTRUCTION OBSERVATION ASSISTS IN QUALITY CONTROL IN ACHIEVING CONFORMANCE WITH THE DISTRICT SPECIFICATION OBSERVATION SHALL IN NO WAY RELIEVE THE CONSTRUCTOR OF HIS/HER OBLIGATION TO CONSTRUCT FACILITIES IN DISTRICT'S SPECIFICATIONS WILL NOT BE ACCEPTED. THESE PLANS HAVE BEEN REVIEWED FOR WATER AND SANITARY SEWER ONLY.

REVIEWED FOR COTTONWOOD
WATER AND SANITATION DISTRICT

DISTRICT MANAGER _____ Date _____

DISTRICT ENGINEER _____ Date _____

BASIS OF BEARING:
BEARINGS ARE BASED ON THE LINE FROM CONTROL POINT 200 TO CONTROL POINT 201, MONUMENTED AS SHOWN HERON BEARING N 53°47'17" E.

BENCHMARK:
BASIS OF ELEVATIONS: BEARINGS ARE BASED ON CONTROL POINT 200 BEING AN ELEVATION OF 5825.42

OWNER INFORMATION

ADVENTHEALTH PARKER
9395 CROWN CREST BLVD.
PARKER, CO. 80138
303-269-4014

DESIGN INFORMATION

ARCHITECT: BOULDER ASSOCIATES
PHONE: 303-499-7795

ARCHITECT: SMITHGROUP
PHONE: 303-832-3272

CIVIL ENGINEER: S. A. MIRO, INC
PHONE: 303-741-3737

LANDSCAPE ARCHITECT: OXBOW DESIGN COLLABORATION
PHONE: 720-465-6168

STRUCTURAL ENGINEER: MGA STRUCTURAL ENGINEERS, INC.
PHONE: 719-635-4473

MEPT ENGINEERS: CATOR RUMA & ASSOCIATES CO
PHONE: 303-232-6200

FIRE PROTECTION: TLH FIRE
PHONE: 303-517-1775

AGENCY LIST

CORE ELECTRIC COOPERATIVE
PO DRAWER A
5406 US HWY 95
SEDALIA, CO. 80135
303-688-3100
CONTACT: BROOKS KAUFMAN

GAS-XCEL ENERGY
2070 SOUTH VALENTIA STREET
DENVER, CO. 80231
1-800-828-2121
CONTACT: DESIGN MANAGER

FIRE-SOUTH METRO FIRE RESCUE
9195 E. MINERAL AVE
CENTENNIAL, CO 80112
720-989-2000
CONTACT: RANDY CAPRA

TOWN OF PARKER
PLANNING AND BUILDING DEPT.
20120 E. MAIN STREET
PARKER, CO. 80134
303-841-2332
CONTACT: PAUL WORKMAN

TOWN OF PARKER-PUBLIC WORKS
20120 E. MAIN STREET
PARKER, CO 80134
303-840-9546
CONTACT: MIKE WAUGH

COTTONWOOD WATER & SANITATION DISTRICT
2 INVERNESS DRIVE EAST
ENGLEWOOD, CO
303-792-9509
CONTACT: PATRICK MULHERN/ LAURI TATLOCK

CABLE-COMCAST
8850 S. TUSCON WAY
ENGLEWOOD, CO. 80112
303-603-5605
CONTACT: KEVIN YOUNG

TELEPHONE - CENTURY LINK
LOCAL NETWORK OPERATIONS
9750 E. COSTILLA AVENUE
ENGLEWOOD, CO. 80112
303-792-1840
CONTACT: KAREN CAIME

TRI-COUNTY HEALTH DEPARTMENT
7000 E. BELLEVUE AVENUE
GREENWOOD VILLAGE, CO. 80111
303-220-9200
CONTACT: CAROL MACLENNAN

COTTONWOOD WATER AND SANITATION
DISTRICT ENGINEER-KENNEDY JENKS CONSULTING
143 UNION BOULEVARD
SUITE 600
LAKEWOOD, CO 80228
PHONE: 303-985-3636
CONTACTS: TOM NAPOLILLI

CROWN POINT ARCHITECTURAL
CONTROL COMMITTEE
27905 MEADOW DRIVE, SUITE 11
EVERGREEN, CO 80439 303-674-7856
CONTACT: TIM LEONARD

PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**
DRAWING TITLE: **WATER AND SANITARY COVER SHEET**
FILE PATH: \\egnydrive\Civil\Jobs\23079_AHP_Expansion\05_CAD\Plans and Details\C500-WATR-SSEW-COVR.dwg C500 - 11/7/2024

THIS DOCUMENT IS SUBJECT TO CHANGE AS A RESULT OF JURISDICTIONAL APPROVALS. CONSTRUCTION DOCUMENTS SHALL CONTAIN THE APPROVAL SIGNATURES OF THE REVIEWING ENTITIES. THIS DOCUMENT IS NOT FOR CONSTRUCTION.

DESIGNED BY: RJH
DRAWN BY: EDS
CHECKED BY: MHV
MIRO JOB NO. 23079

DRAWING NUMBER:
A-C500

MASTER LEGEND:

PROPOSED	
	PROPERTY LINE
	SECTION LINE
	RIGHT OF WAY LINE
	CENTER LINE
	CURB AND GUTTER
	SIDEWALK
	WALL
	FENCE
	SIGN
	LIGHT
	TREE
	5343 MINOR CONTOURS
	5345 MAJOR CONTOURS
	RL RIDGE LINE
	43.50 SPOT ELEVATION
	CATV CABLE TV LINE
	COMM COMMUNICATION LINE
	E ELECTRICAL LINE
	OE OVERHEAD ELECTRICAL LINE
	FO FIBER OPTIC LINE
	G GAS LINE
	T TELEPHONE LINE
	IRR IRRIGATION LINE
	RAW RAW WATER LINE
	SS SANITARY SEWER LINE
	ST STEAM LINE
	STORM SEWER LINE
	W WATER LINE
	EASEMENT
	INLET
	FLARED END SECTIONS
	CLEANOUT
	FIRE HYDRANT
	VALVE
	WATER FITTINGS
	PEDESTAL
	UTILITY CROSSING
	MANHOLES
	LTD LAMBS TONGUE ROOF DRAIN OVERFLOW
EXISTING	
	CURB AND GUTTER
	SIDEWALK
	WALL
	FENCE
	SIGN
	LIGHT
	TREE
	5343 MINOR CONTOURS
	5345 MAJOR CONTOURS
	43.50 SPOT ELEVATION
	EX CATV CABLE TV LINE
	EX COMM COMMUNICATION LINE
	EX E ELECTRICAL LINE
	EX OE OVERHEAD ELECTRICAL LINE
	EX FO FIBER OPTIC LINE
	EX G GAS LINE
	EX T TELEPHONE LINE
	EX IRR IRRIGATION LINE
	EX RAW RAW WATER LINE
	EX SS SANITARY SEWER LINE
	EX ST STEAM LINE
	EX SD STORM SEWER LINE
	EX W WATER LINE
	EASEMENT
	INLET
	FLARED END SECTIONS
	CLEANOUT
	FIRE HYDRANT
	VALVE
	PEDESTAL
	MANHOLES

COTTONWOOD WATER AND SANITATION DISTRICT GENERAL NOTES :

- ALL MAINS, SYSTEM PLANS AND CONSTRUCTION SHALL CONFORM TO THE COTTONWOOD WATER AND SANITATION DISTRICT (THE DISTRICT) SPECIFICATIONS AND SHALL BE SUBJECT TO CONSTRUCTION OBSERVATION BY DISTRICT PERSONNEL OR REPRESENTATIVES. ALL MATERIAL AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AND STANDARDS.
- THE OWNER, HIS/HER ENGINEER, OR CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE DISTRICT MANAGER AND DISTRICT ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. PLANS WITH THE DISTRICT REVIEW STAMP WILL BE DISTRIBUTED PRIOR TO OR AT THE PRECONSTRUCTION MEETING. NO CONSTRUCTION WILL BE PERMITTED UNTIL FORMAL RECORDING OF EASEMENTS IS COMPLETE. NO CONSTRUCTION WILL BE PERMITTED PRIOR TO THE PRECONSTRUCTION MEETING.
- ALL WATER MAINS INSTALLED SHALL CONFORM TO DENVER WATER MATERIAL SPECIFICATIONS.
 - DUCTILE IRON PIPE MS-1 AWWA C151 CLASS 50 WITH POLYWRAP
 - POLYVINYL CHLORIDE (PVC) MS-2 AWWA C900-07 DR14 PVC
- THE APPROVAL OF THE CONSTRUCTION PLANS SIGNIFIES ONLY THAT THE PLANS MEET THE MINIMUM REQUIREMENTS OF THE DISTRICT'S STANDARDS AND SPECIFICATIONS BASED ON THE INFORMATION PROVIDED BY THE DESIGN ENGINEER, OWNER-DEVELOPER, AND CONTRACTOR. APPROVAL IS NOT A REPRESENTATION OR WARRANTY THAT THE SYSTEM AND ASSOCIATED COMPONENTS WILL PERFORM ANY CERTAIN FUNCTIONS.
- THE DISTRICT, ITS REPRESENTATIVE, AND/OR THE DISTRICT ENGINEER, IS NOT A GUARANTOR OF THE CONSTRUCTION CONTRACTORS' OBLIGATIONS AND PERFORMANCE OF CONTRACT.
- OBSERVATION OF WORK IN PROGRESS AND ON-SITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE BY THE DISTRICT OR DISTRICT ENGINEER OF THE CONTRACTOR'S CONTRACTUAL COMMITMENT.
- THE DISTRICT AND/OR DISTRICT ENGINEER IS NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS RELATING THERETO.
- THE DISTRICT AND/OR DISTRICT ENGINEER, EXERCISES NO CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, SCAFFOLDING, FORMS, OR ANY OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR IN THE SUPERINTENDING OF THE SAME.
- THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE DESIGN ENGINEER, OR THE COUNTY.
- THE CONTRACTOR IS RESPONSIBLE FOR:
 - A. NOTIFYING ALL CUSTOMERS POSSIBLY AFFECTED BY OUTAGE OF WATER OR SEWER SERVICE DURING CONSTRUCTION PRIOR TO SHUTTING OFF SAID SERVICE.
 - B. OBTAINING, AT THE CONTRACTOR'S EXPENSE, ALL APPLICABLE LICENSES, PERMITS, BONDS, ETC. REQUIRED FOR MAIN INSTALLATION/SYSTEM MODIFICATIONS.
 - C. CONTACTING THE DISTRICT FOR A PRE-CONSTRUCTION MEETING AT 303-649-9857. CONSTRUCTION CANNOT START FOR AT LEAST 48 HOURS AFTER THE MEETING HAS BEEN HELD.
 - D. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF ANY NEEDS TO SHUT DOWN ANY PORTION OF THE EXISTING WATER AND/OR SANITARY SEWER SYSTEM.
 - E. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE FOR CONSTRUCTION OBSERVATIONS.
 - F. IN CASE OF AN EMERGENCY AFTER WORKING HOURS CALL THE DISTRICT OFFICE AT (303) 426-3167 FOR RECORDED INSTRUCTIONS.
- UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION HAVE BEEN LOCATED FROM FIELD INVESTIGATION AND THE BEST AVAILABLE UTILITY RECORDS AND ARE APPROXIMATE ONLY. THE DISTRICT ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL COORDINATE HIS/HER ACTIVITIES WITH THE AFFECTED UTILITY COMPANIES AND SHALL NOTIFY THE UTILITY NOTIFICATION CENTER, PHONE NO. 1-800-922-1987, 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PERFORM POTHOLING ON EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF THE WATER AND/OR SANITARY SEWER LINES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION COST OF THE PIPELINE.
- THE CONTRACTOR SHALL HAVE IN HIS/HER POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PROJECT PLANS SIGNED BY THE DISTRICT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING SIGNS, STRUCTURES, FENCES, ETC ENCOUNTERED ON THE JOB AND RESTORING THEM TO THEIR ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. USE OF THE DISTRICTS SEWER SYSTEM FOR THE DISPOSAL OF GROUND WATER IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE DISTRICT. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE DISTRICT AND THE DESIGN ENGINEER AT THE TIME OF THE OCCURRENCE.
- IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO RESOLVE CONSTRUCTION PROBLEMS WITH THE DISTRICT DUE TO CHANGED CONDITIONS ENCOUNTERED DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. IF, IN THE OPINION OF THE DISTRICT, PROPOSED ALTERATIONS TO THE SIGNED CONSTRUCTION PLANS INVOLVES SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING REVISED PLANS TO THE DISTRICT FOR REVIEW PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE WORK.
- THE OWNER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PLAN REVIEW AND CONSTRUCTION OBSERVATION.
- MAINTAIN MINIMUM OF 10 FEET SEPARATION BETWEEN WATER AND SANITARY SEWER MAINS AND SERVICES IN ACCORDANCE WITH COLORADO STATE DEPARTMENT OF HEALTH AND ENVIRONMENT STANDARDS.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A TRAFFIC CONTROL PLAN TO DOUGLAS COUNTY AND TO CDOT PRIOR TO ISSUANCE OF A STREET CUT PERMIT.
- SHOP DRAWINGS ARE TO BE SUBMITTED AT LEAST 48 HOURS PRIOR TO THE INSTALLATION OF ANY MATERIALS FOR ALL PIPES, FITTINGS AND APPURTENANCES.

COTTONWOOD WATER NOTES :

- EXISTING VALVES IN THE DISTRICT SERVICE AREA MAY ONLY BE OPERATED BY DISTRICT PERSONNEL.
- BEFORE ANY TAPS ARE MADE TO MAINS, APPLICATION(S) FOR THE TAPS MUST BE RECEIVED AND APPROVED BY THE DISTRICT.
- IRRIGATION DEMANDS MUST BE FORMALLY SUBMITTED FOR ALL PROJECT REQUIRING WATER FOR LANDSCAPING PURPOSES.
- FINAL PLUMBING PLANS MUST BE RECEIVED AND REVIEWED BY THE DISTRICT ENGINEER BEFORE WATER SERVICE TAPS CAN BE AWARDED IN ORDER TO PERFORM FIXTURE UNIT ANALYSIS TO VERIFY TAP SIZE FOR ALL COMMERCIAL, INDUSTRIAL AND MULTI-FAMILY DEVELOPMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE WATER LINE WORK.
- PRIOR TO INSTALLATION OF WATER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE "SUB-GRADE" STAGE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN SEVEN (7) INCHES BELOW THE FINISHED STREET GRADE. THE CONTRACTOR WILL ADJUST ALL VALVE BOXES AND FIRE HYDRANTS TO THE FINAL FINISHED GRADE.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF FOUR AND ONE-HALF (4-1/2) FEET OF COVER AND ARE TO BE THREE (3) FEET FROM THE EDGE OF THE GUTTER PAN.
- DISTANCE FOR WATERLINES IS THE HORIZONTAL DISTANCE BETWEEN CENTER OF FITTING TO CENTER OF VALVE, METER, ETC. THEREFORE, THE DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AT FITTING DIMENSIONS.
- ALL HYDRANT LATERALS AND FIRE LINES SHALL BE DUCTILE IRON PIPE CLASS 50 AND FULLY RESTRAINED WITH POLYWRAP.
- ALL WATER LINE VALVES SHALL BE SET AT THE INTERSECTION OF THE EXTENDED PROPERTY LINE AND WATER LINE, EXCEPT WHERE THAT POINT FALLS IN THE FLOW LINE OF A CONCRETE CROSS PAN. IN THAT CASE, THE VALVE SHALL BE LOCATED SO THAT THE SURFACE DRAINAGE DOES NOT INFILTRATE THE VALVE BOX. IF A TAPPING TEE IS NOT LOCATED ON A PROPERTY LINE THEN THE ASSOCIATED VALVE WILL NOT BE REQUIRED AS SHOWN ON THE PLANS. VALVE BOXES SHALL BE SET AT AN ELEVATION IN ACCORDANCE WITH COUNTY PAVING REQUIREMENTS.
- ALL VALVES, VALVE BOXES, CURB STOPS AND/OR METER PIT COVERS SHALL HAVE THE WORD "WATER" STAMPED ON THEM. ALL POTABLE WATER VALVES SHALL BE OPENED IN A CLOCKWISE DIRECTION. ALL VALVE BOXES AND FIRE HYDRANTS WILL BE ADJUSTED TO THE FINAL FINISHED GRADE BY THE CONTRACTOR.
- ALL IRRIGATION AND NON-POTABLE PIPE SHALL BE PURPLE IN COLOR OR SHALL BE LABELED WITH PURPLE TAPE READING "CAUTION NONPOTABLE WATER" ALONG THE FULL LENGTH OF THE PIPE.
- POLYETHYLENE WRAPPINGS SHALL BE INSTALLED AROUND ALL DUCTILE IRON PIPE, FITTINGS, VALVES, FIRE HYDRANT BARRELS, AND RODS AND CLAMPS. THE POLYETHYLENE SHALL HAVE A MINIMUM THICKNESS OF EIGHT (8) MILS.
- TRACER WIRE, GAUGE 12 COPPER, SHALL BE INSTALLED ON ALL WATER LINES, FIRE HYDRANTS LATERALS AND APPURTENANCES.
- INDIVIDUAL SERVICE LINES ARE REQUIRED TO HAVE PRV'S WHEN SYSTEM PRESSURE EXCEEDS 80 PSI IN ACCORDANCE WITH UNIFORM PLUMBING CODE.
- A BACKFLOW PREVENTION DEVICE APPROVED BY DENVER WATER IS REQUIRED ON THE TREATED WATER SERVICE LINE FOR:
 - A. ALL COMMERCIAL AND MULTI-FAMILY DOMESTIC TAPS.
 - B. FIRE LINES
- ALL WATER LINES SHALL BE CHLORINATED IN ACCORDANCE WITH AWWA C-651, "DISINFECTING WATER MAINS." THE REQUIRED METHOD IS TO USE SUFFICIENT CHLORINE TABLET TO PRODUCE A 25 MG/L SOLUTION. THESE TABLETS SHALL BE ADHERED TO THE TOP OF THE PIPE WITH A FOOD GRADE ADHESIVE SUCH AS PERMATED CLEAR R.T.V. CHLORINATION OF 16-INCH AND LARGER PIPE REQUIRE A CHLORINE SLURRY. THE CHLORINATION OF ANY FINISHED PIPELINE SHALL BE COMPLETED PRIOR TO HYDROSTATIC TESTING.
- THE WATER QUALITY CONTROL DIVISION OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) REQUIRES ALL WATER LINE CONTRACTORS TO POSSESS A CURRENT DISCHARGE PERMIT FOR DISCHARGES OF CHLORINATED AND PROCESS WATERS ASSOCIATED WITH THE INSTALLATION OF NEW MAINS OR CONDUITS. CONTACT CDPHE WATER QUALITY CONTROL DIVISION AT (303) 692-3539 FOR INFORMATION ON OBTAINING THE REQUIRED PERMIT.
- HYDROSTATIC TESTING: ALL WATER LINES SHALL BE HYDROSTATIC TESTED IN ACCORDANCE WITH AWWA C-600 SECTION 4 "HYDROSTATIC TESTING". ALL WATER LINES SHALL BE TESTED TO A MINIMUM OF 150 PSI. THE TEST SHALL BE SCHEDULED WITH THE DISTRICT AUTHORITY AND COORDINATED WITH ANY OTHER REVIEWING OR APPROVING AGENCY. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT FOR TESTING. THE ALLOWABLE LEAKAGE RATES ARE AS FOLLOWS:

PIPE I.D.	ALLOWABLE LEAKAGE PER 1000 FEET	
	D.I.P	PVC
4"	0.37 GAL/HOUR	0.33 GAL/HOUR
6"	0.55 GAL/HOUR	0.50 GAL/HOUR
8"	0.74 GAL/HOUR	0.66 GAL/HOUR
12"	1.10 GAL/HOUR	1.00 GAL/HOUR
16"	1.47 GAL/HOUR	
20"	1.84 GAL/HOUR	

- ONLY ONE (1) POINT OF CONNECTION WILL BE ALLOWED UNTIL ALL TESTING OF NEW INSTALLATIONS IS COMPLETED TO THE DISTRICT'S SATISFACTION.
- PROBATIONARY ACCEPTANCE OF THE NEW WATER LINES IS CONTINGENT UPON RECEIVING COPIES OF:
 - A. PASSING WATER LINE TRENCH COMPACTION TEST RESULTS;
 - B. PASSING HYDROSTATIC PRESSURE TEST RESULTS;
 - C. RECORD DRAWINGS
 - D. PASSING HEALTH DEPARTMENT TESTS (CHLORINE AND/OR CLEAR WATER AS REQUIRED)
- THE COST OF THE WATER LINE CONSTRUCTION IS \$_____.
- THE STATIC PRESSURE MEASURED AT THE FIRE HYDRANT LOCATED AT THE PARKER ADVENTIST HOSPITAL IS 90 PSI. PLEASE INTERPOLATE TO DETERMINE THE PRESSURE AT THE CONNECTION TO THE EXISTING SYSTEM. 9395 CROWN CREST BLVD, PARKER, CO 80138

COTTONWOOD SANITARY SEWER NOTES :

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THE SANITARY SEWER LINE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR:
 - A. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF ANY NEED TO SHUT DOWN ANY PORTION OF THE EXISTING SANITARY SEWER SYSTEM.
 - B. NOTIFYING THE DISTRICT 48 HOURS IN ADVANCE OF THE WORK.
 - C. IN CASE OF AN EMERGENCY AFTER WORKING HOURS, CALL THE DISTRICT OFFICE AT (303) 986-2275 FOR RECORDED INSTRUCTIONS.
- UNDERDRAINS ARE NOT PART OF THE SANITARY SEWER LINES OR SYSTEM AND WILL NOT BE ALLOWED IN THE SAME TRENCH AS THE SANITARY SEWER MAINS. UNDERDRAINS SHALL NOT BE ACCEPTED, MAINTAINED OR SUBJECT TO CONSTRUCTION OBSERVATION BY THE DISTRICT. THE DISTRICT HAS NO SPECIFICATIONS FOR UNDERDRAINS AND WILL ONLY REVIEW THEIR PROPOSED LOCATION RELATIVE TO THE SANITARY SEWER LINES.
- THE CONTRACTOR SHALL VERIFY EXISTING MANHOLE INVERTS TO BE CONNECTED TO PRIOR TO CONSTRUCTION STAKING AND CONSTRUCTION.
- PRIOR TO INSTALLATION OF SANITARY SEWER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE SUB-GRADE STAGE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN SEVEN (7) INCHES BELOW THE FINISHED STREET GRADE. THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS TO THE FINAL FINISHED GRADE.
- THE LENGTH OF SANITARY SEWER IS THE HORIZONTAL DISTANCE BETWEEN CENTERS OF MANHOLE. THEREFORE DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND MANHOLE DIMENSIONS.
- THE PIPE USED FOR SANITARY SEWER MAINS SHALL BE IN ACCORDANCE WITH ASTM D-3034 SDR 35 PVC PIPE IN PAVED RIGHTS-OF-WAY AND EASEMENTS, AND AWWA C-900 CLASS 165 (DR25) IN UNPAVED EASEMENTS OR AS NOTED ON THE PROJECT PLANS.
- MANHOLE RIMS SHALL BE SET AT AN ELEVATION RELATIVE TO THE PAVEMENT, IN ACCORDANCE WITH COUNTY STANDARDS. WHETHER THE MANHOLE IS IN A PAVED OR UNPAVED GRADE, A MAXIMUM ACCEPTABLE VERTICAL ADJUSTMENT UTILIZING CONCRETE RINGS IS TWELVE (12) INCHES.
- THE CONTRACTOR SHALL TAKE CARE TO PROPERLY SHAPE ALL MANHOLE INVERTS AND BENCHES IN ACCORDANCE WITH DISTRICT STANDARDS AND SPECIFICATIONS, TO PROMOTE SMOOTH FLOW THROUGH THE MANHOLE. INVERTS OF LINES INTERSECTING AT 90 DEGREES AND AT HIGHLY DIVERGENT OR FLAT SLOPES ARE ESPECIALLY CRITICAL. MANHOLE INVERTS SHALL BE CONSTRUCTED WITH A SMOOTH TROWEL FINISH, AND BENCHES FINISHED WITH A LIGHT BROOM, NON-SKID FINISH.
- TRACER WIRE, GAUGE 12 COPPER, SHALL BE INSTALLED ON ALL SEWER LINES, MANHOLES, AND CLEANOUTS.
- THE SANITARY SEWER SERVICE SHALL BE STUBBED OUT. THE END OF THE STUB SHALL BE WITNESSED BY A WOOD, CARSONITE OR METAL POST AT LEAST FOUR FEET LONG, BURIED TO EXPOSE ONE FOOT. THE CONTRACTOR SHALL FURNISH THE AUTHORITY WITH AN AS-BUILT LOCATION OF THE WYE.
- THE SANITARY SEWER SYSTEM WILL BE TESTED IN ACCORDANCE WITH THE DISTRICT STANDARDS AND SPECIFICATIONS. THE DISTRICT WILL REQUIRE THE DEVELOPER TO:
 - A. LOW PRESSURE AIR TEST 100% OF THE NEW SYSTEM, AND
 - B. DEFLECTION TEST, AT A MINIMUM 33% OF THE SYSTEM FIFTEEN (15) FEET OR LESS IN DEPTH, AND 100% OF THE SYSTEM GREATER THAN FIFTEEN (15) FEET IN DEPTH.
 - C. JET AND TV/VIDEO TAPE 100% OF THE SYSTEM.
- PROBATIONARY ACCEPTANCE OF THE NEW SANITARY SEWER MAINS IS CONTINGENT UPON RECEIVING COPIES OF:
 - A. SANITARY SEWER TRENCH COMPACTION TEST RESULTS,
 - B. RECORD DRAWINGS, AND
 - C. COMPLETION OF SYSTEM TESTING.
- CONNECTIONS TO EXISTING DISTRICT LINES WILL BE PERMITTED UPON ACCEPTANCE OF THE NEW SANITARY SEWER SYSTEM. EXISTING PIPE AT THE POINT OF CONNECTION SHALL NOT BE "BROKEN OUT" UNTIL THE NEW SYSTEM IS ACCEPTED.
- MONITORING MANHOLES ARE REQUIRED FOR ALL COMMERCIAL AND INDUSTRIAL SANITARY SERVICE LINES.
- PIPE BEDDING UP TO 16-FEET IN DEPTH IS TO BE SQUEEGEE. PIPE BEDDING IN EXCESS OF 16-FEET IN DEPTH IS TO BE 3/4-INCH AGGREGATE. PIPE BEDDING IN EXCESS OF 22-FEET MUST BE SPECIFIED BY THE DISTRICT ENGINEER.

ABBREVIATIONS:

BFV	BUTTERFLY VALVE	PCC	POINT OF COMPOUND CURVATURE
BOV	BLOW OFF VALVE	PCR	POINT OF CURB RETURN
BW	BOTTOM OF WALL @ FINISHED GRADE	PI	POINT OF INTERSECTION
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENCY
EJ	EXPANSION JOINT	PVC	POLYVINYL CHLORIDE
ELEC.	ELECTRIC	RCP	REINFORCED CONCRETE PIPE
ELEV.	ELEVATION	RCB	REINFORCED CONCRETE BOX
EX	EXISTING	RL	RIDGE LINE
FES	FLARED END SECTION	ROW	RIGHT OF WAY
FG	FINISHED GRADE	RT	RIGHT
FS	FINISHED SURFACE	SD	STORM DRAINAGE SEWER
FL	FLOWLINE	SS	SANITARY SEWER
GB	GRADE BREAK	STA	STATION
HP	HIGH POINT	STRM	STORM SEWER
FH	FIRE HYDRANT	TOF	TOP OF FLANGE
INV.	INVERT	TOP	TOP OF PIPE
IRR	IRRIGATION	TW	TOP OF WALL @ FINISHED GRADE
KB	KICK BLOCK	TYP.	TYPICAL
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
LP	LOW POINT	VPC	VERTICAL POINT OF CURVATURE
LT	LEFT	VPI	VERTICAL POINT OF INTERSECTION
ME	MATCH EXISTING	VPT	VERTICAL POINT OF TANGENCY
MH	MANHOLE	WATR	WATER LINE
PC	POINT OF CURVATURE		

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PROJECT: **ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138**

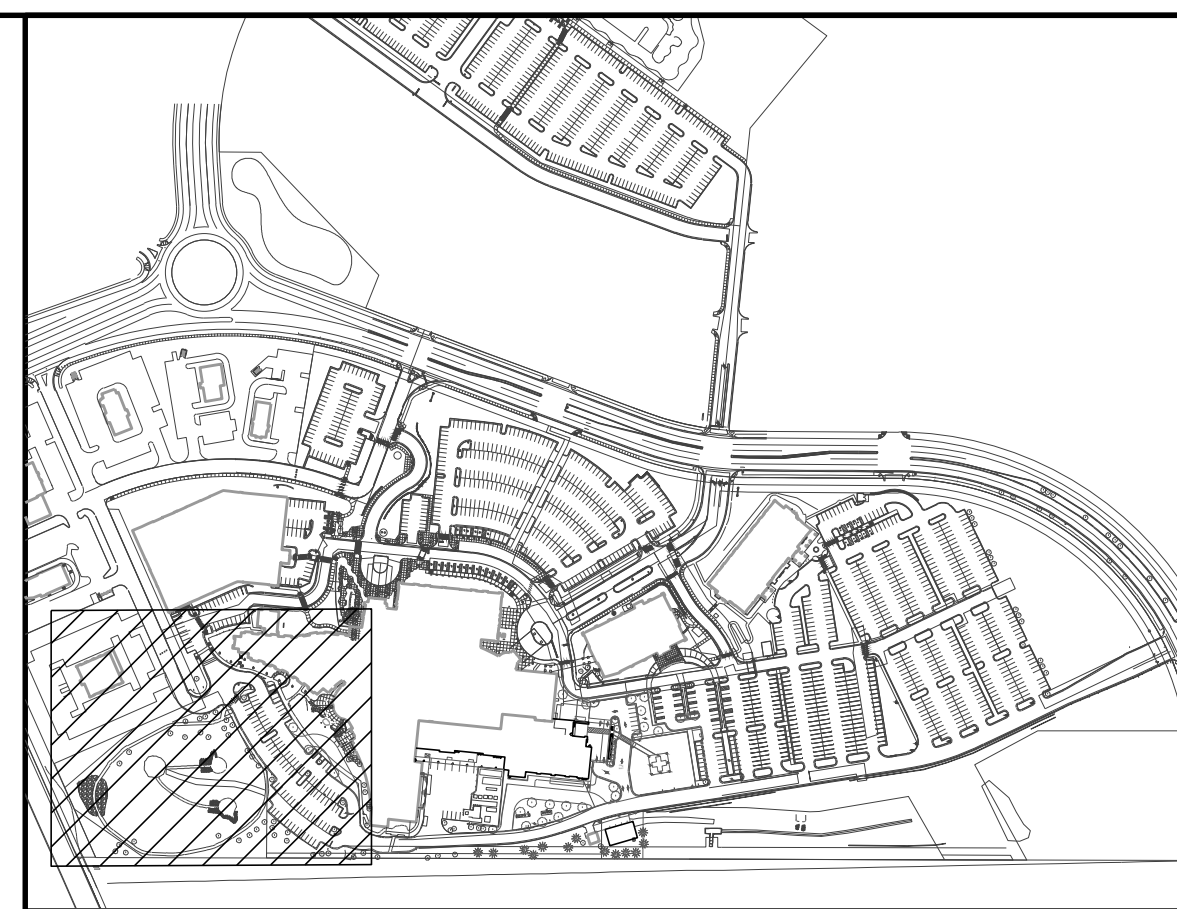
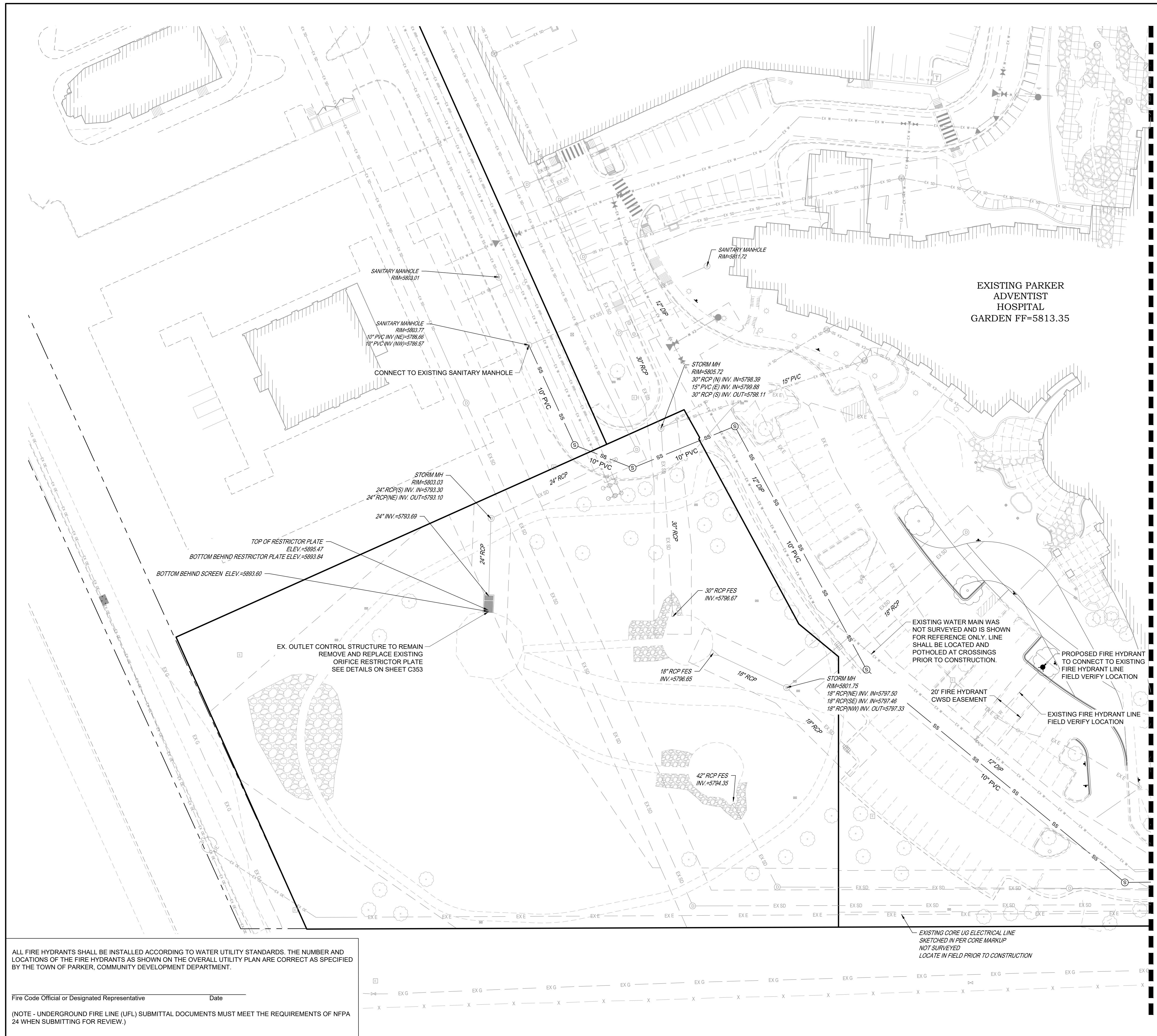
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FILE PATH: J:\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C500-WATR-SEW-COVR.dwg C501 - 11/17/2024

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 DRAWN BY: EDS
 CHECKED BY: MHV
 MIRO JOB NO. 23079

DRAWING NUMBER:
A-C501



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KEYMAP
 NTS

SCALE: 1" = 30'

NOTES:
 1. SEE SHEET A-C501 FOR UTILITY NOTES AND LEGEND.

DATE	DESCRIPTION
06/03/2024	1ST TOWN SUBMITTAL
08/16/2024	2ND TOWN SUBMITTAL
10/10/2024	3RD TOWN SUBMITTAL

PROJECT: **ADVENTHEALTH PARKER EXPANSION
 PARKER, CO 80138**

DRAWING TITLE: **UTILITY PLAN**

FILE PATH: J:\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C511-UTIL-PLAN.dwg C511 - 11772024

DESIGNED BY: RJH
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 DRAWING NUMBER: **A-C511**

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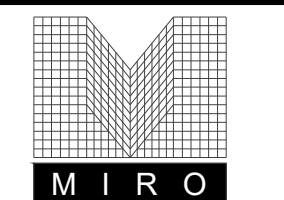
ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO WATER UTILITY STANDARDS. THE NUMBER AND LOCATIONS OF THE FIRE HYDRANTS AS SHOWN ON THE OVERALL UTILITY PLAN ARE CORRECT AS SPECIFIED BY THE TOWN OF PARKER, COMMUNITY DEVELOPMENT DEPARTMENT.

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.)

SEE SHEET A-C512

EXISTING CORE UG ELECTRICAL LINE
 SKETCHED IN PER CORE MARKUP
 NOT SURVEYED
 LOCATE IN FIELD PRIOR TO CONSTRUCTION

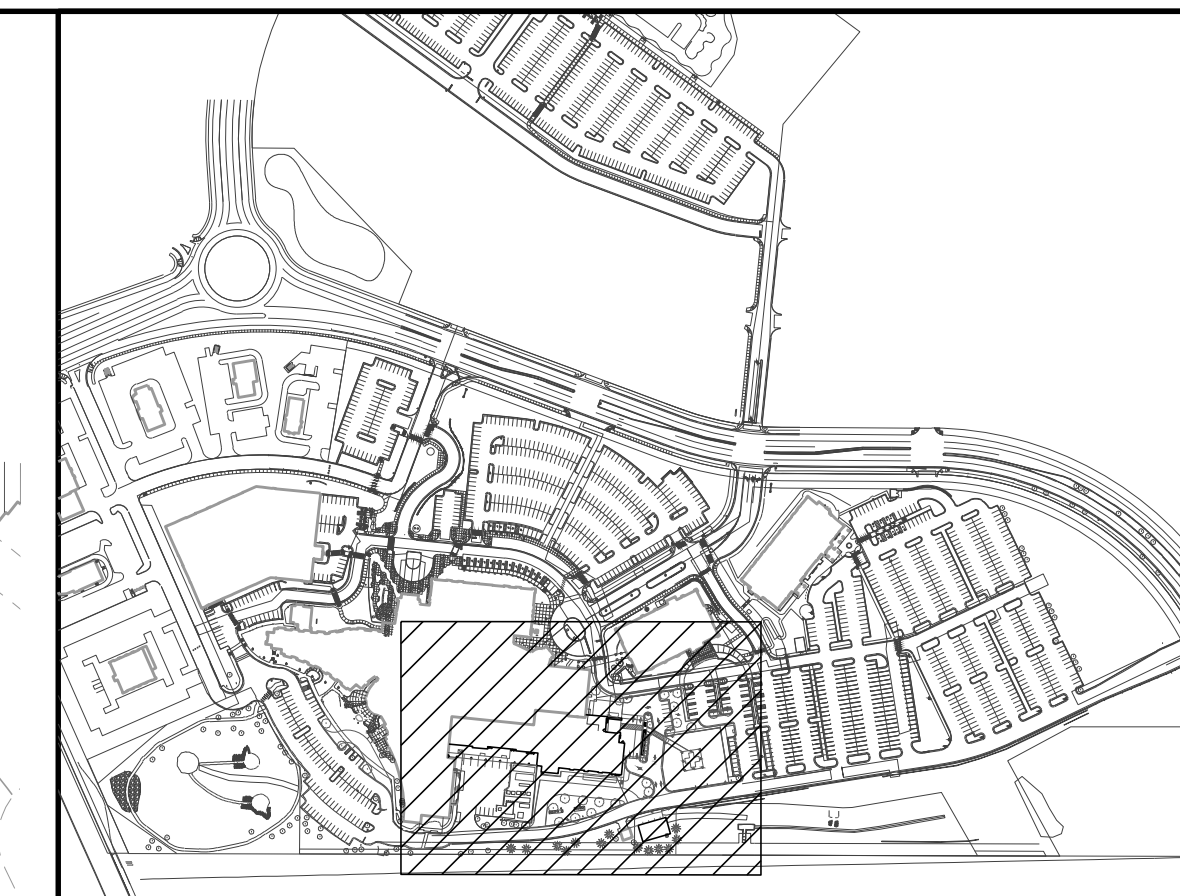


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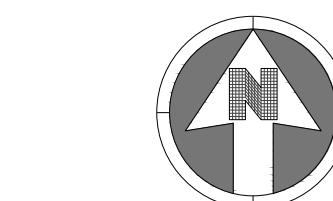
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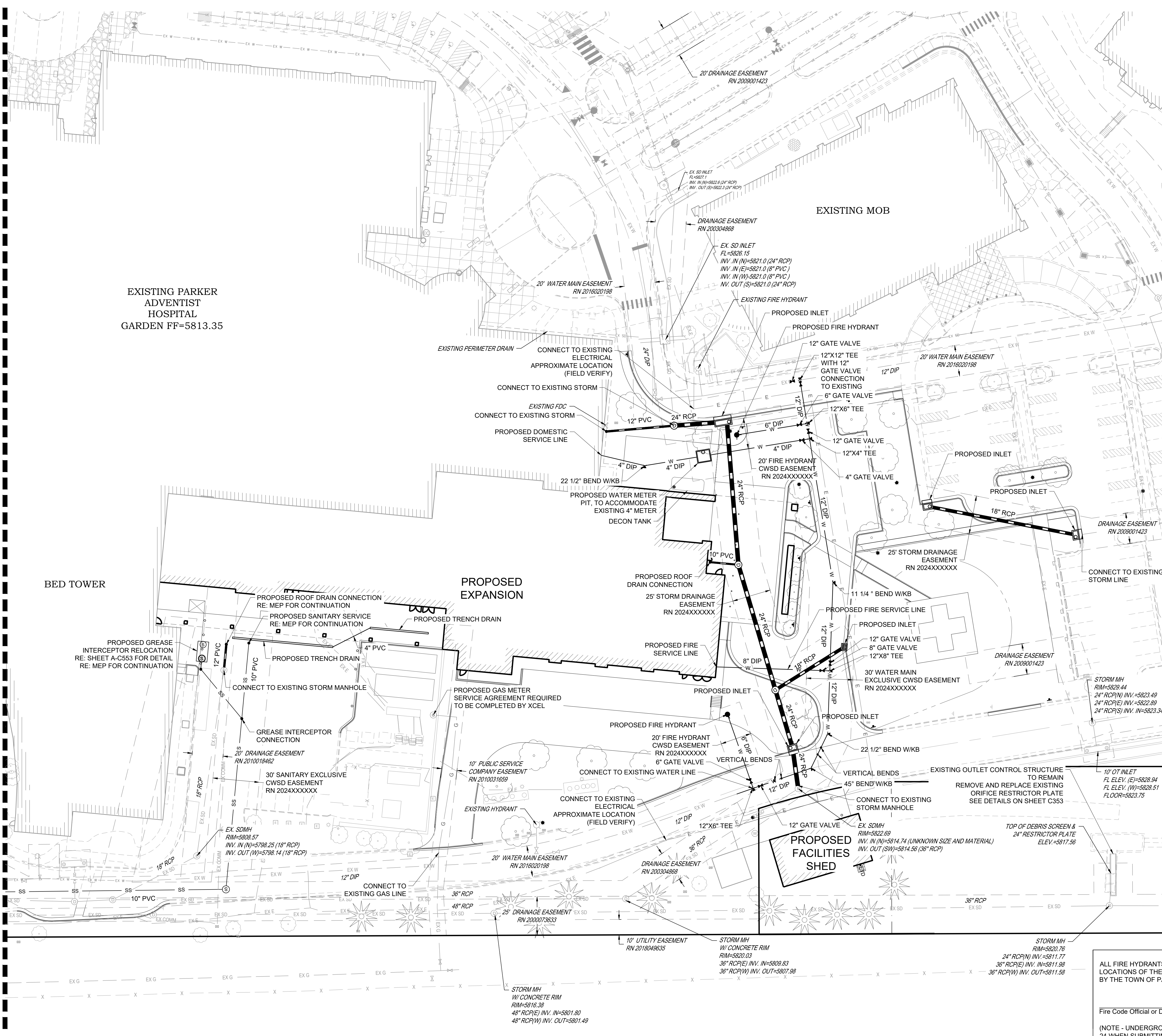


30 0 30
 SCALE: 1" = 30'

NOTES:

- SEE SHEET A-C501 FOR UTILITY NOTES AND LEGEND.

SEE SHEET A-C511



EXISTING PARKER
 ADVENTIST
 HOSPITAL
 GARDEN FF=5813.35

BED TOWER

PROPOSED
 EXPANSION

PROPOSED
 FACILITIES
 SHED

DATE	DESCRIPTION
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10/10/2024	3RD TOWN SUBMITTAL

NO.	DESCRIPTION
1	1ST TOWN SUBMITTAL
2	2ND TOWN SUBMITTAL
3	3RD TOWN SUBMITTAL

PROJECT: **ADVENTHEALTH PARKER EXPANSION
 PARKER, CO 80138**

DRAWING TITLE: **UTILITY PLAN**

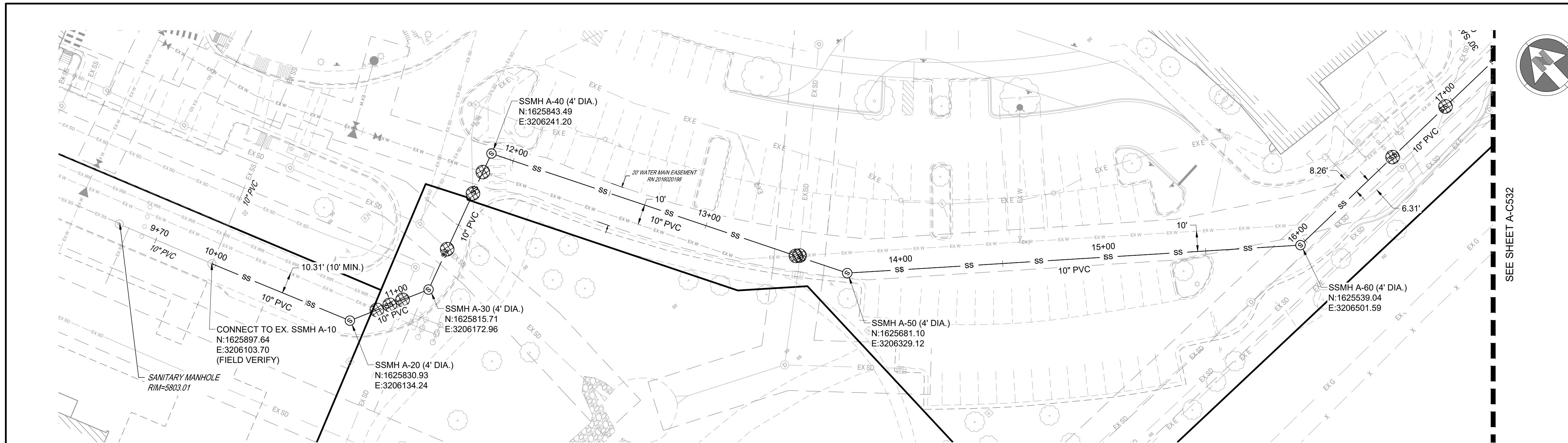
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 CHECKED BY: MHV
 MIRO JOB NO. 23079
 DRAWING NUMBER: **A-C512**

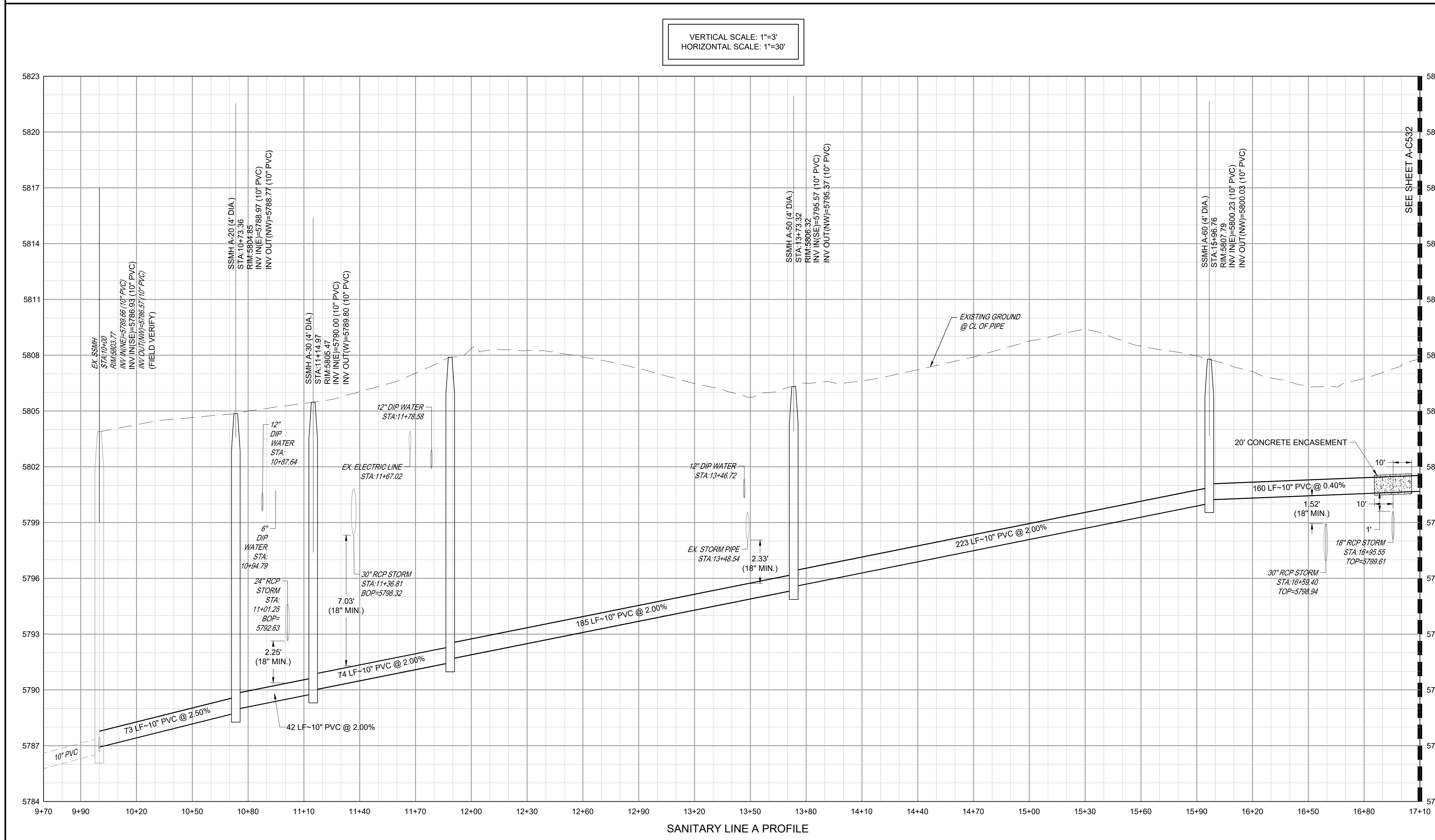
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Fire Code Official or Designated Representative _____ Date _____

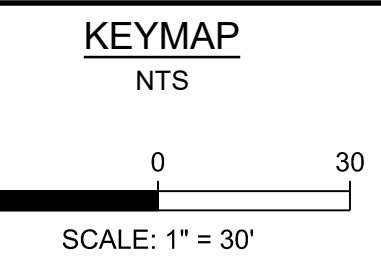
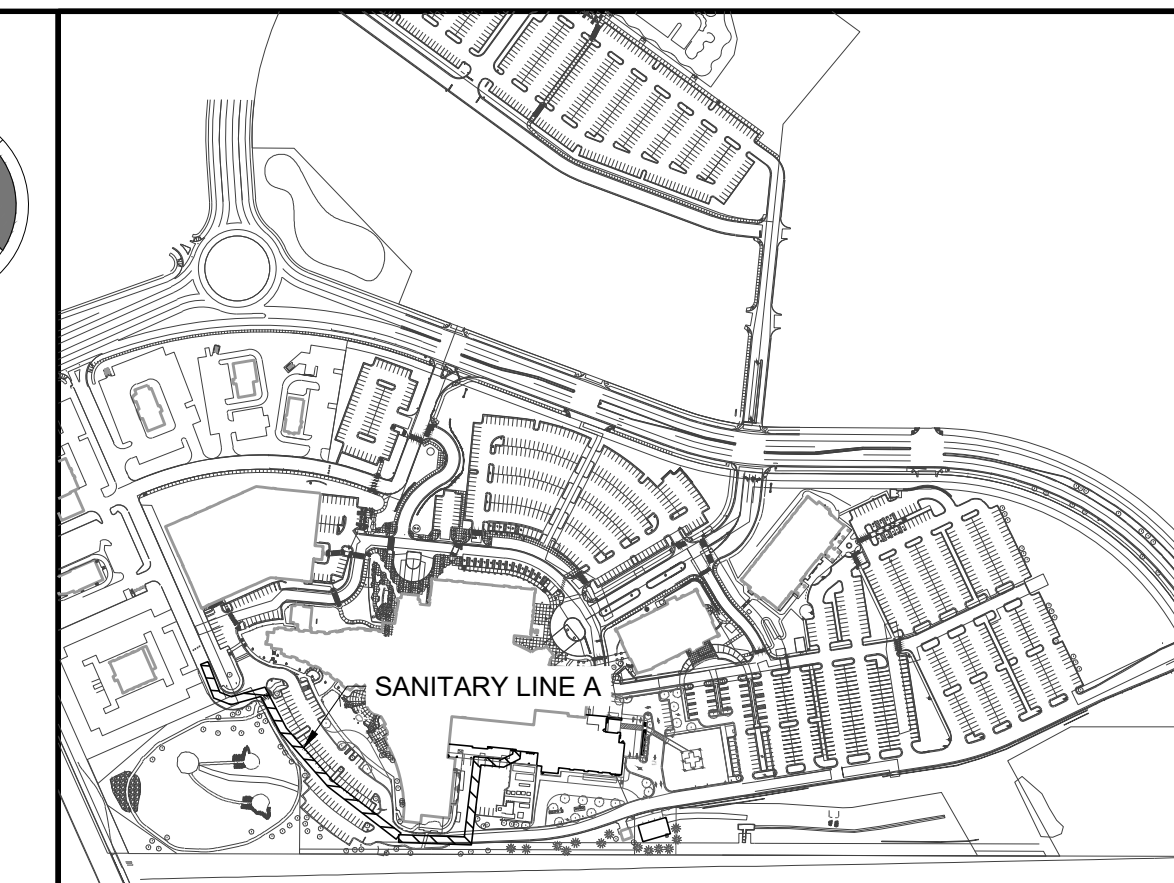
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SANITARY LINE A PLAN



SANITARY LINE A PROFILE



- NOTES:**
- SEE SHEET A-C501 FOR SANITARY NOTES AND LEGEND.
 - ALL EXISTING DRY UTILITIES ARE ASSUMED TO BE 3' DEEP TO TOP OF PIPE.
 - ALL EXISTING WATER LINES ARE ASSUMED TO BE 4.5' DEEP TO TOP OF PIPE.
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LEGEND:

UTILITY CROSSING

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PROJECT: **ADVENTHEALTH PARKER EXPANSION
 PARKER, CO 80138**

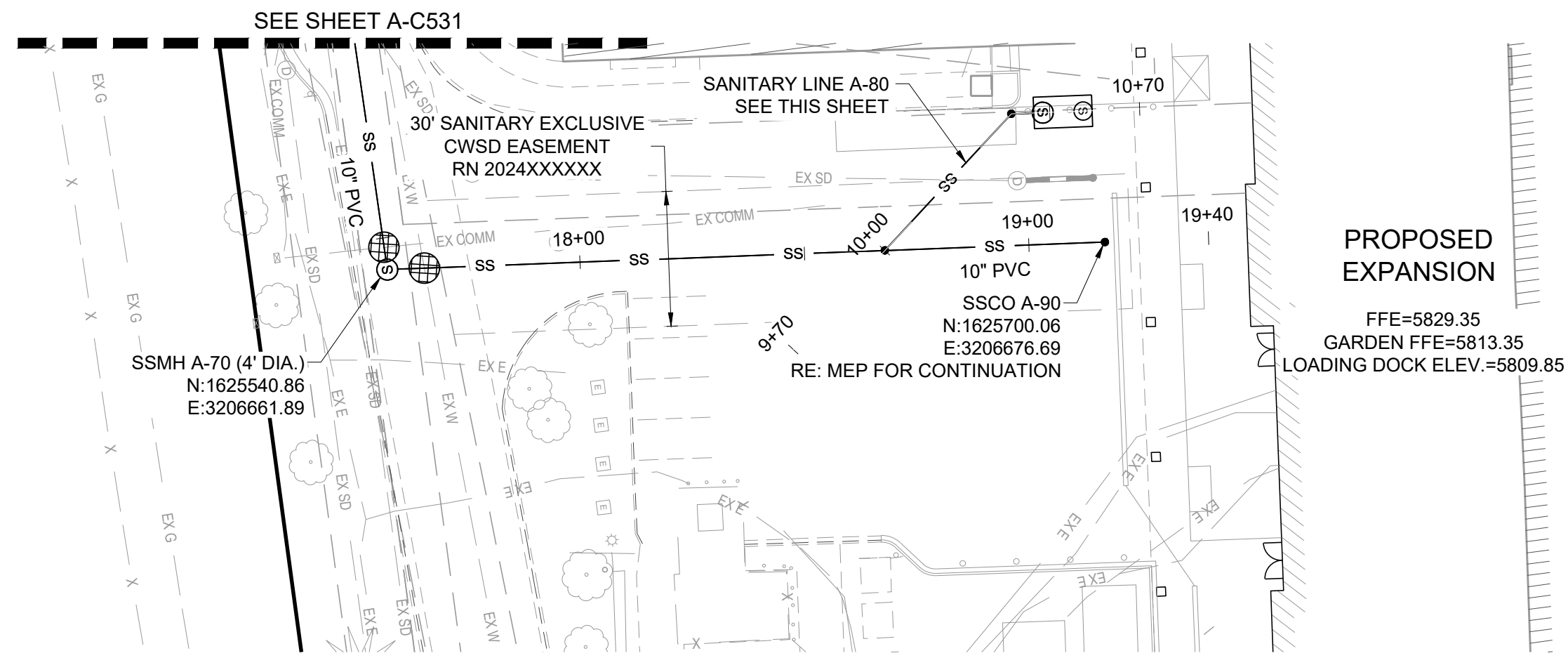
DRAWING TITLE: **SANITARY PLAN AND PROFILE**

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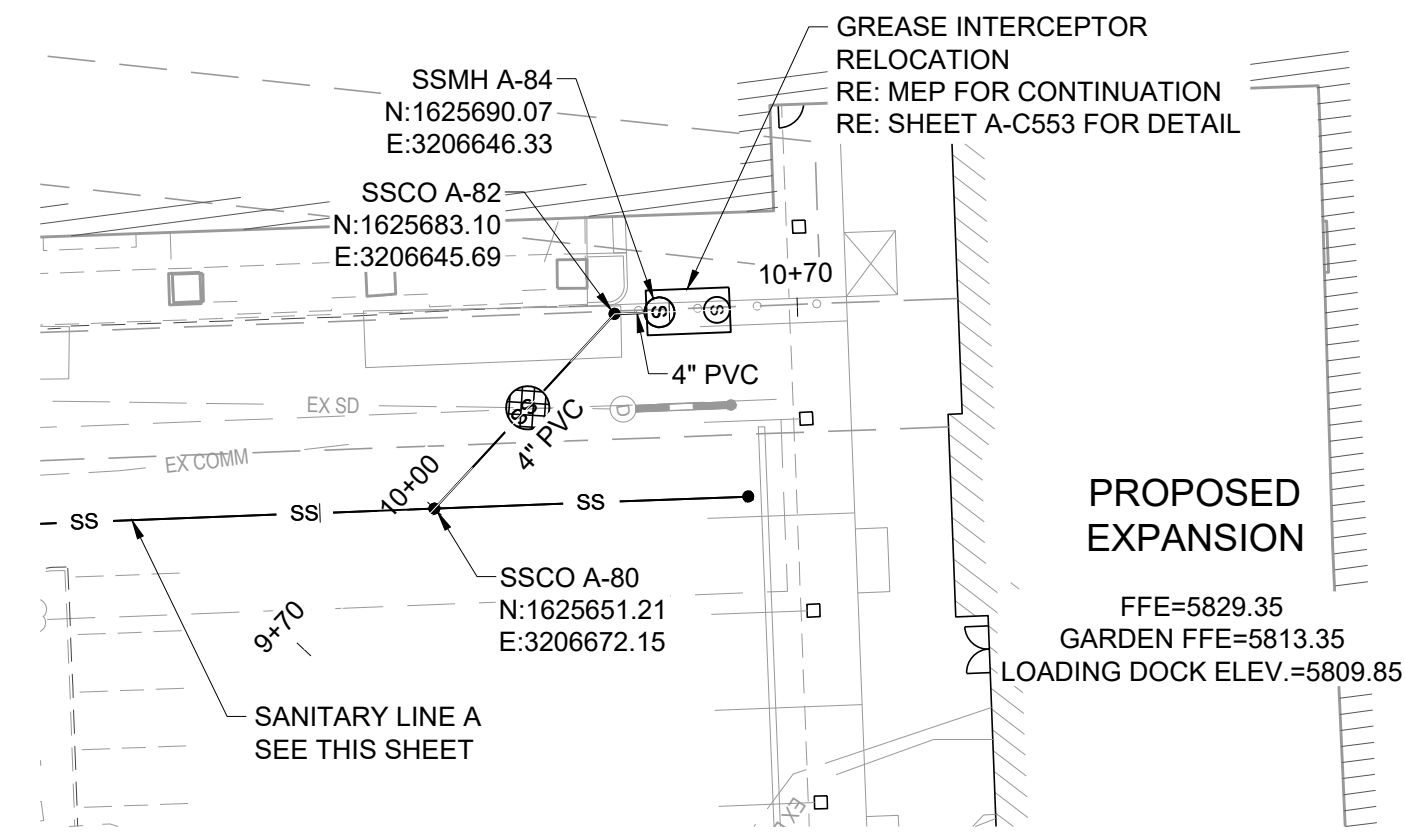
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 CHECKED BY: MHV
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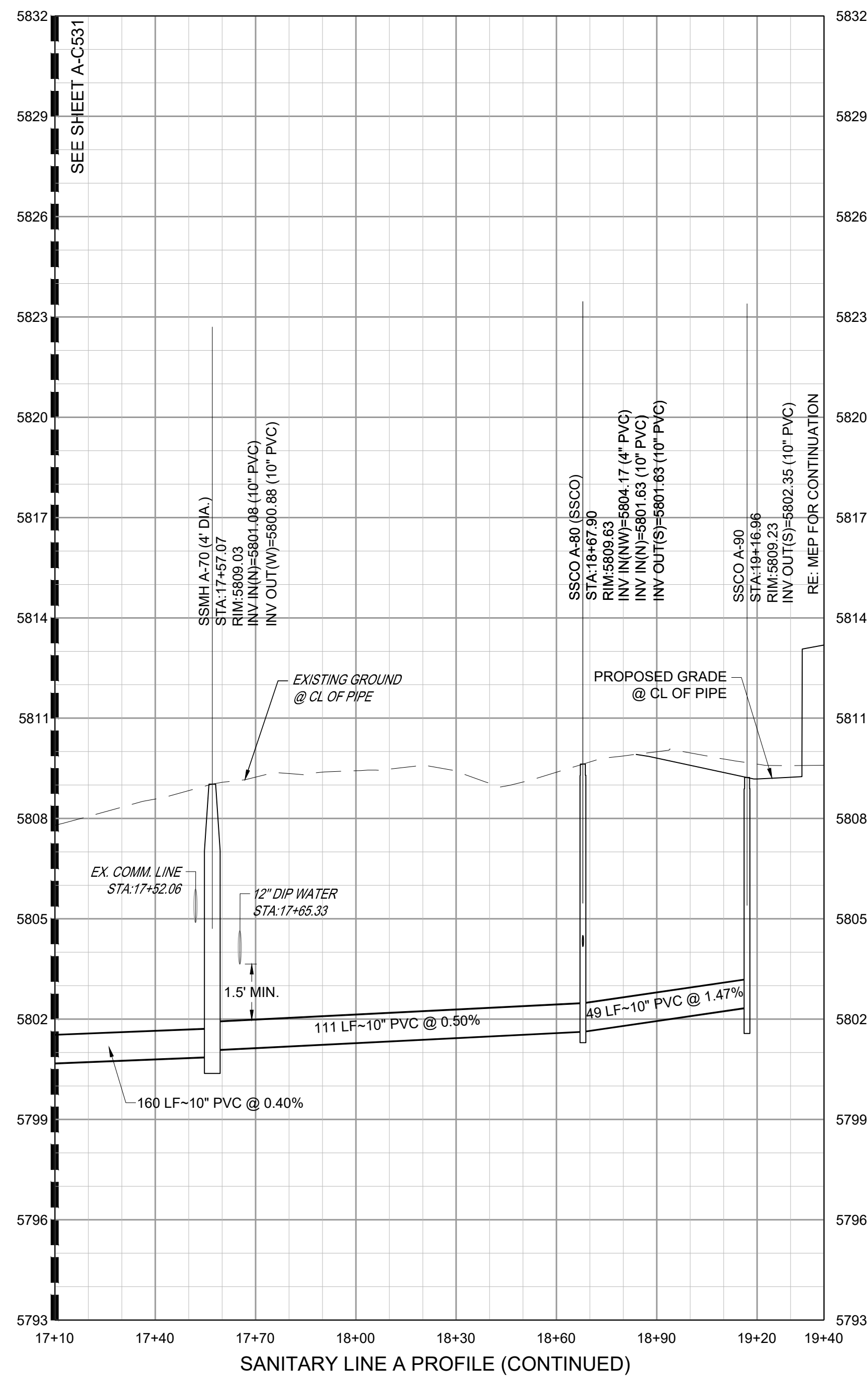
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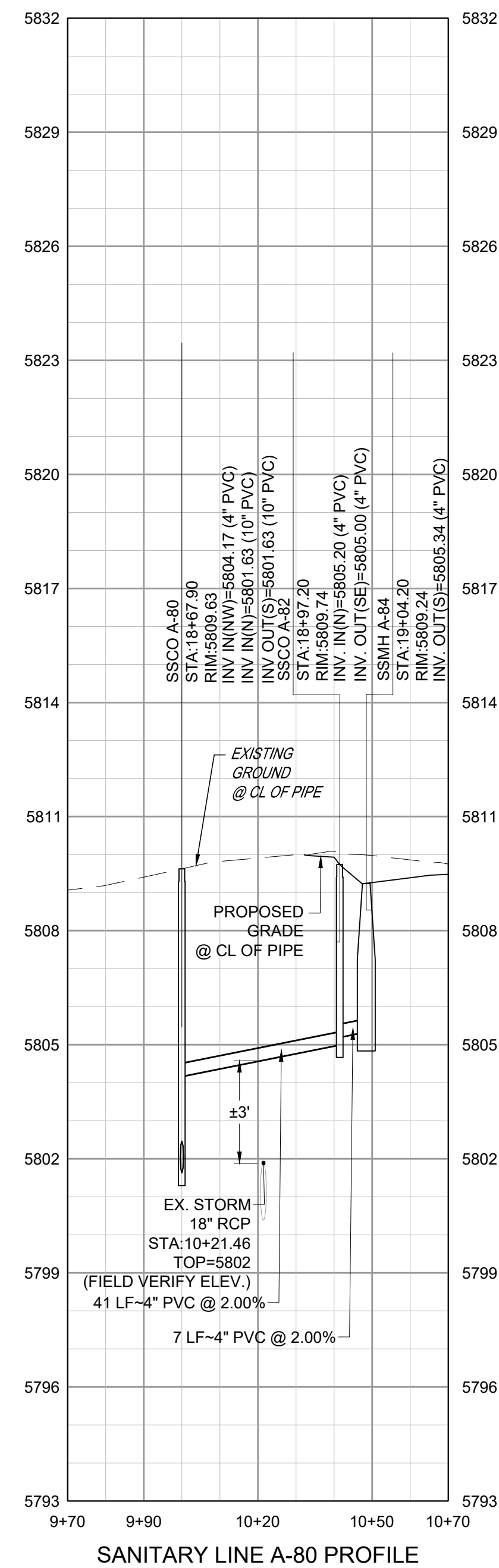
SANITARY LINE A PLAN (CONTINUED)



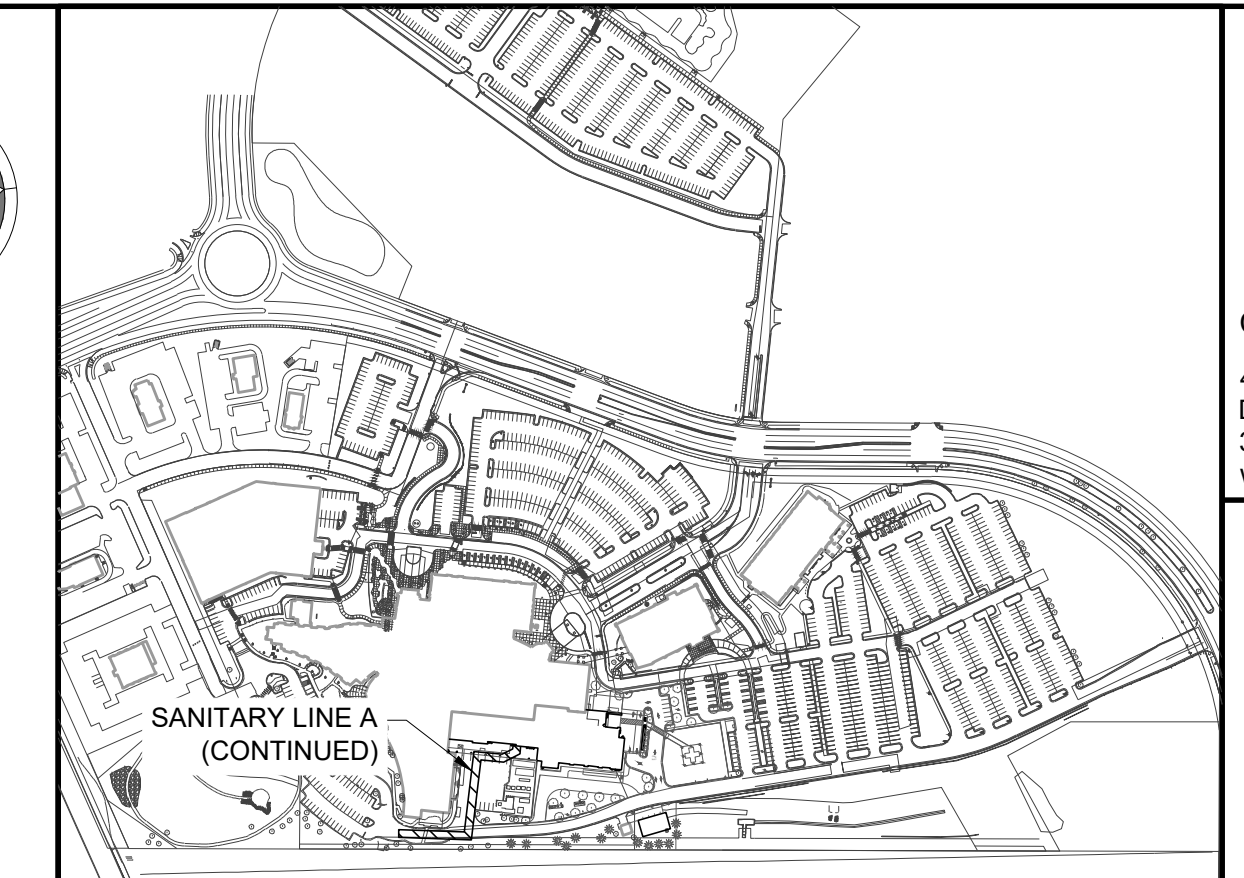
SANITARY LINE A-80 PLAN



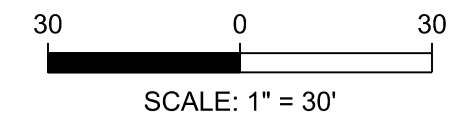
SANITARY LINE A PROFILE (CONTINUED)



SANITARY LINE A-80 PROFILE



KEYMAP
NTS



- NOTES:**
- SEE SHEET A-C501 FOR SANITARY NOTES AND LEGEND.
 - ALL EXISTING DRY UTILITIES ARE ASSUMED TO BE 3' DEEP TO TOP OF PIPE.
 - ALL EXISTING WATER LINES ARE ASSUMED TO BE 4.5' DEEP TO TOP OF PIPE.
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LEGEND:

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PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

DRAWING TITLE: **SANITARY PLAN AND PROFILE**

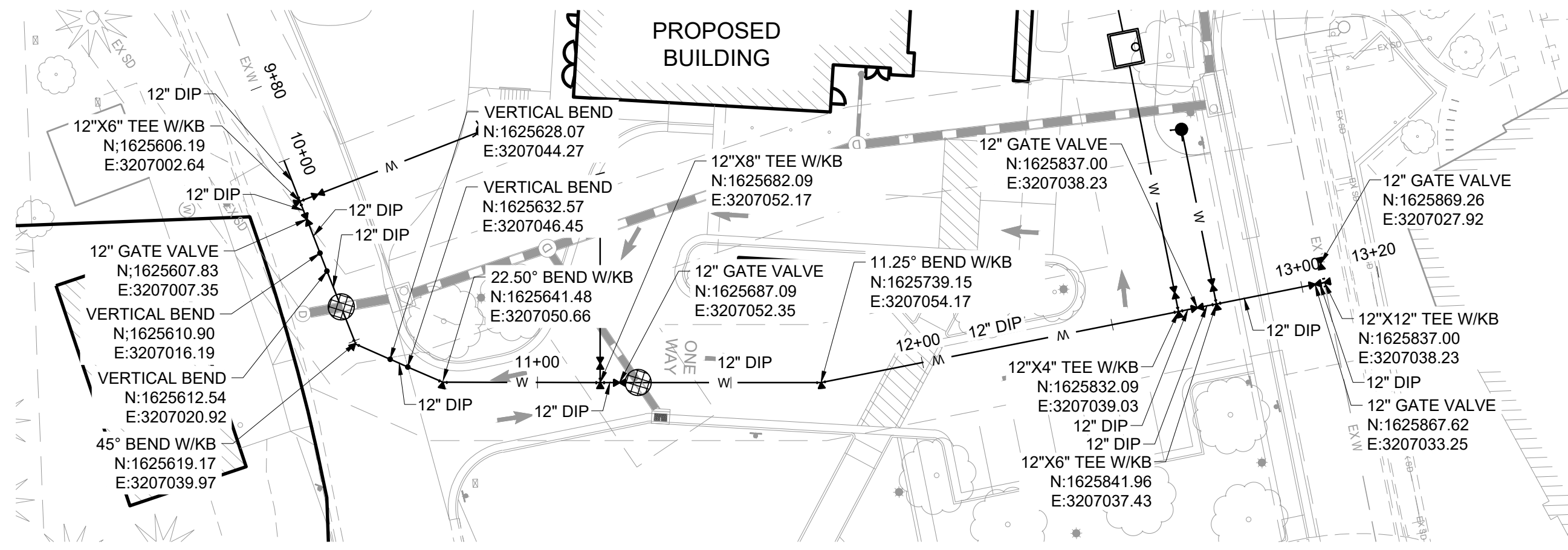
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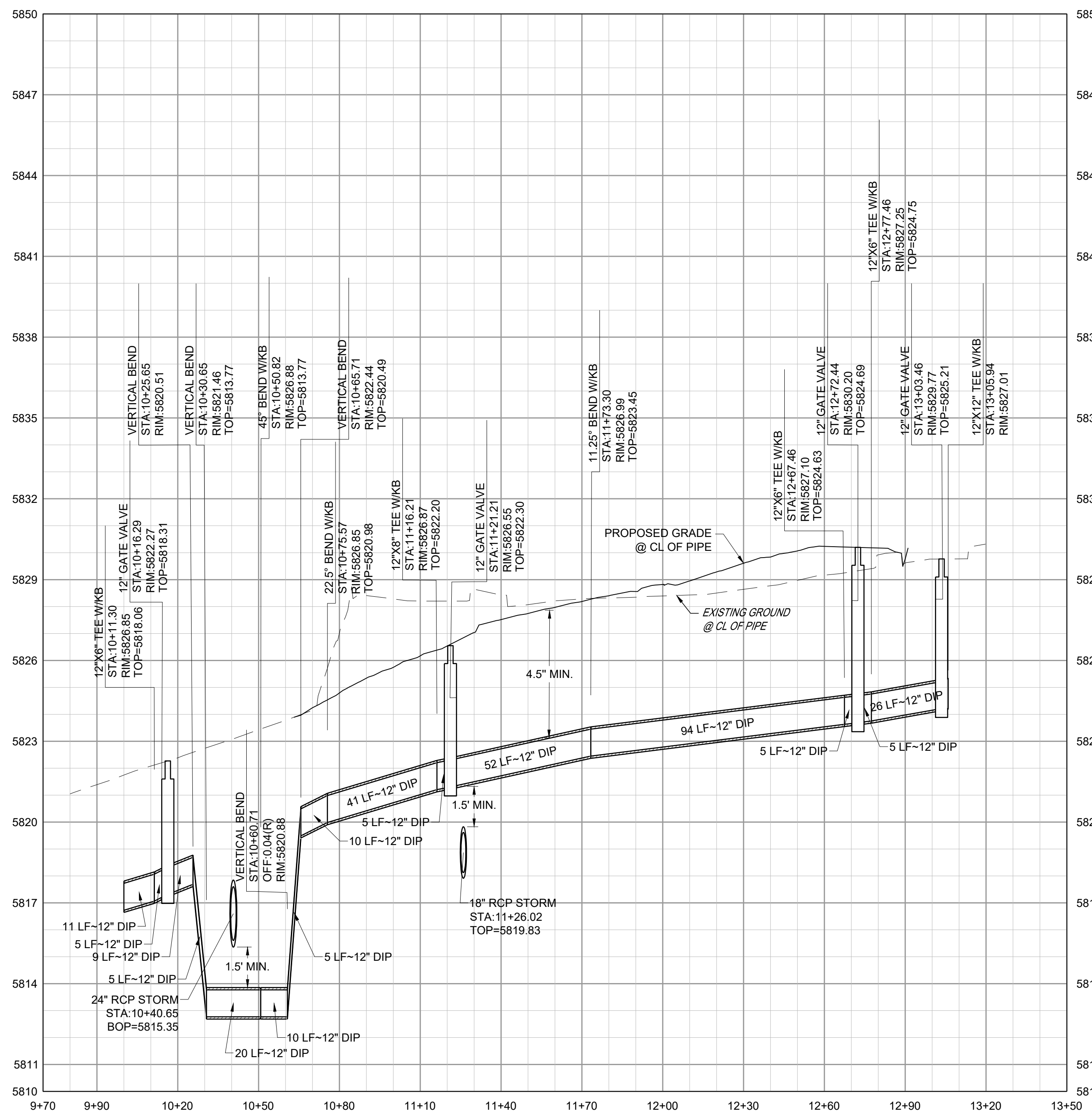
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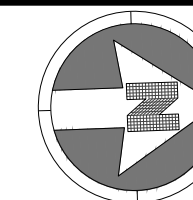


WATER LINE A PLAN

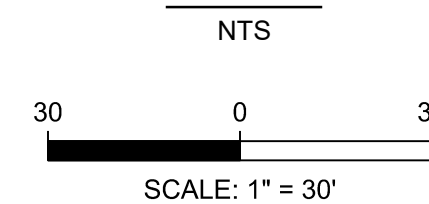
VERTICAL SCALE: 1"=3'
HORIZONTAL SCALE: 1"=30'



WATER LINE A PROFILE



KEYMAP



NOTES:

- SEE SHEET A-C501 FOR WATER NOTES AND LEGEND.
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PROJECT: **ADVENTHEALTH PARKER PARKER, CO 80138**

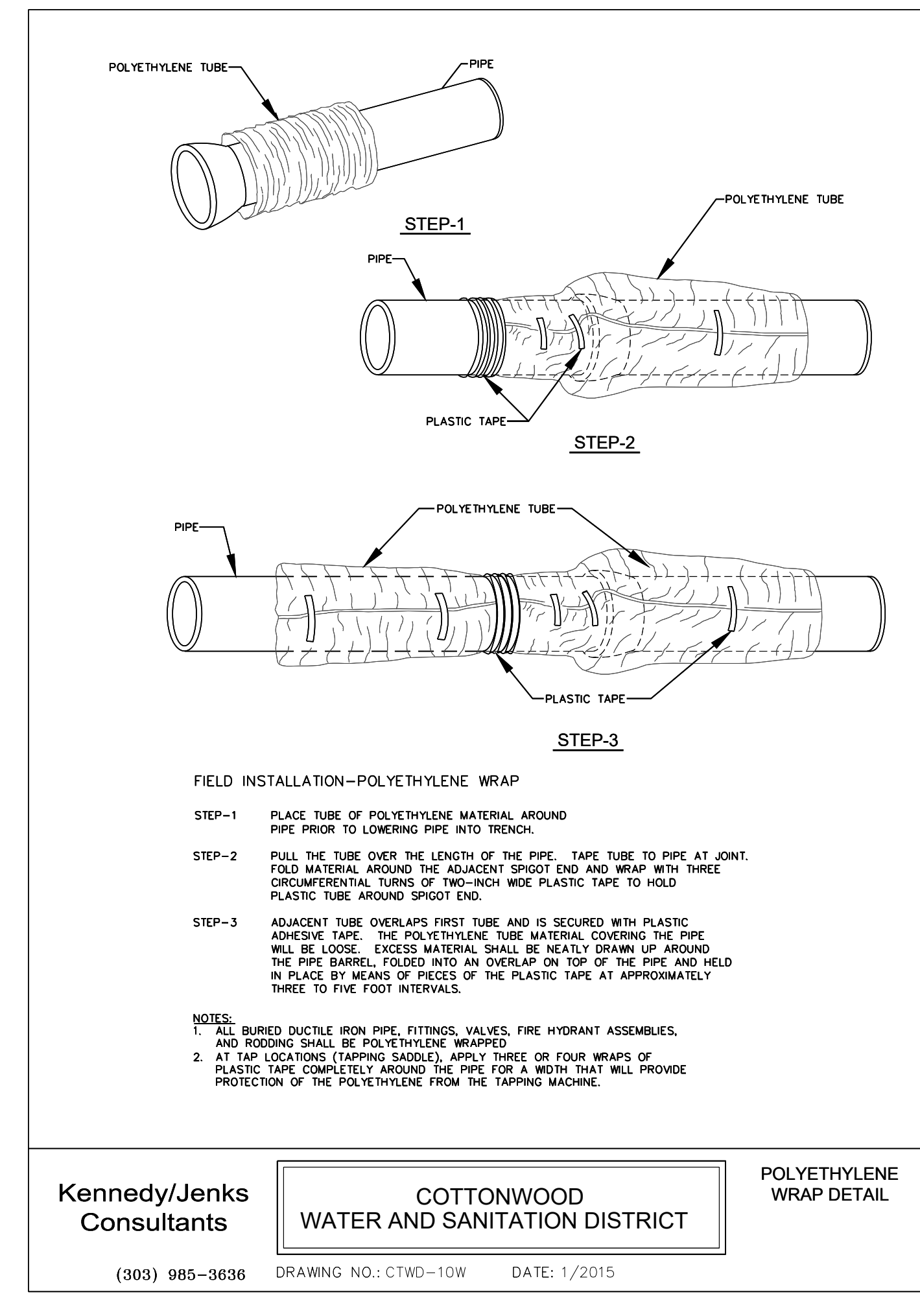
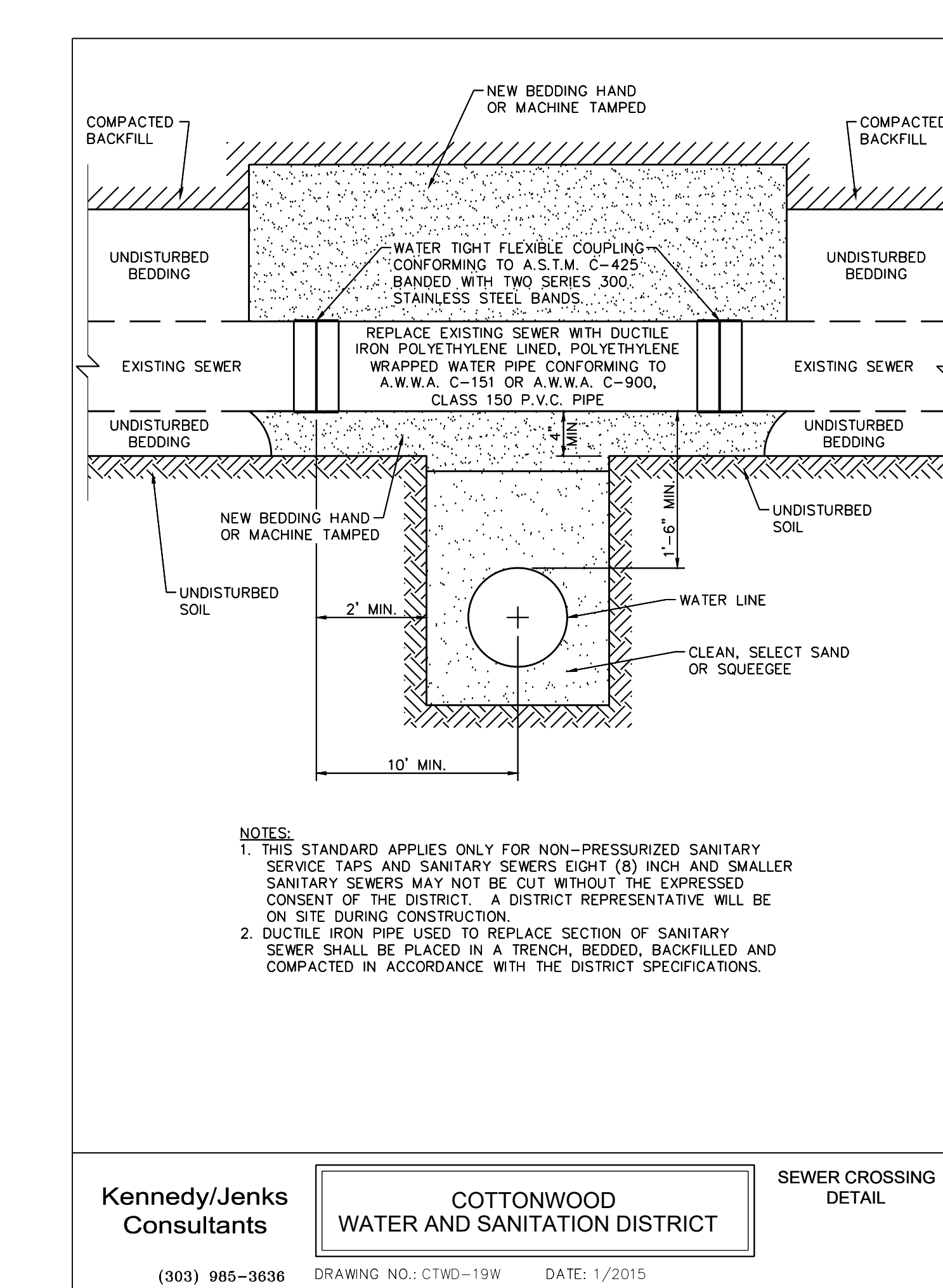
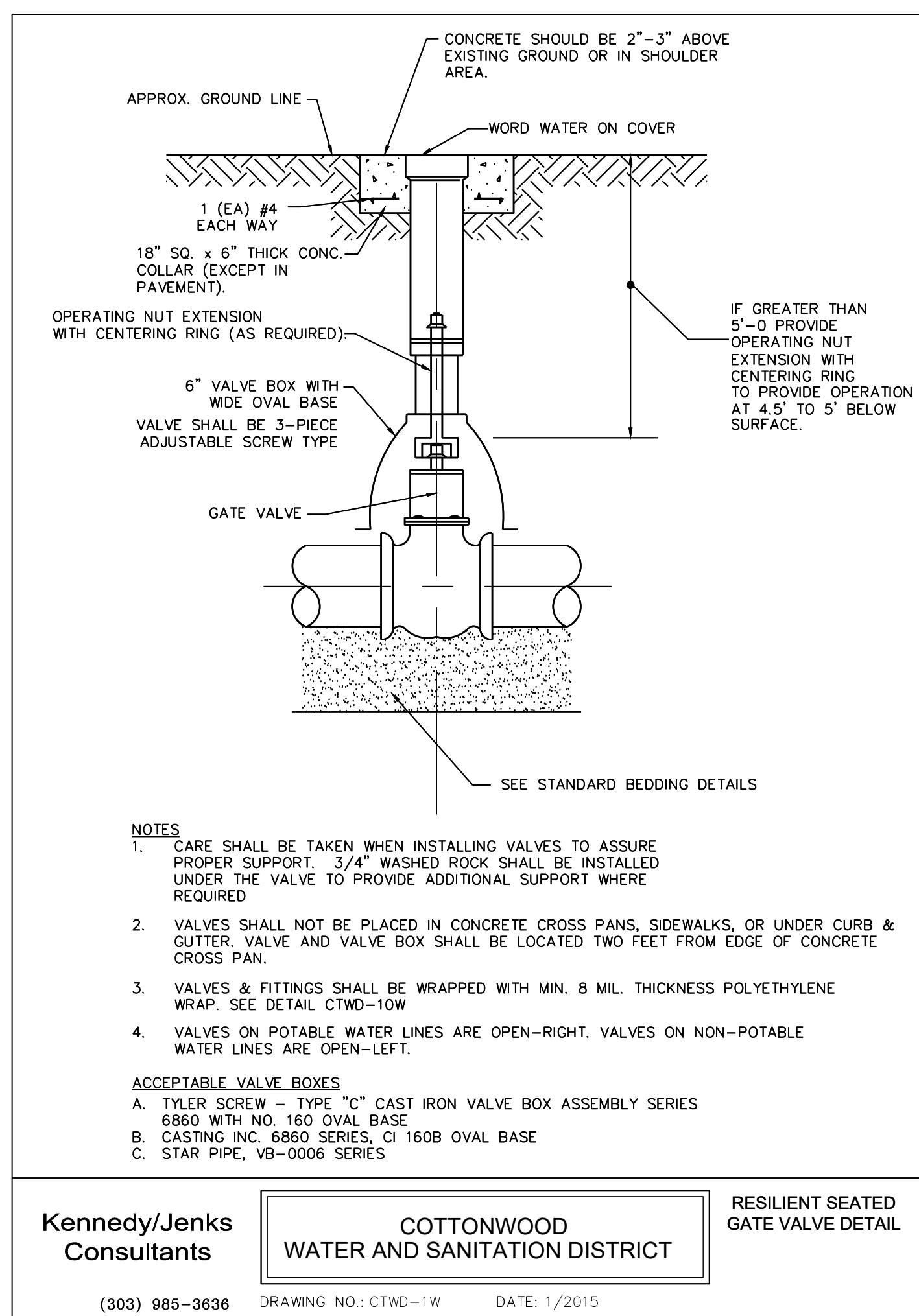
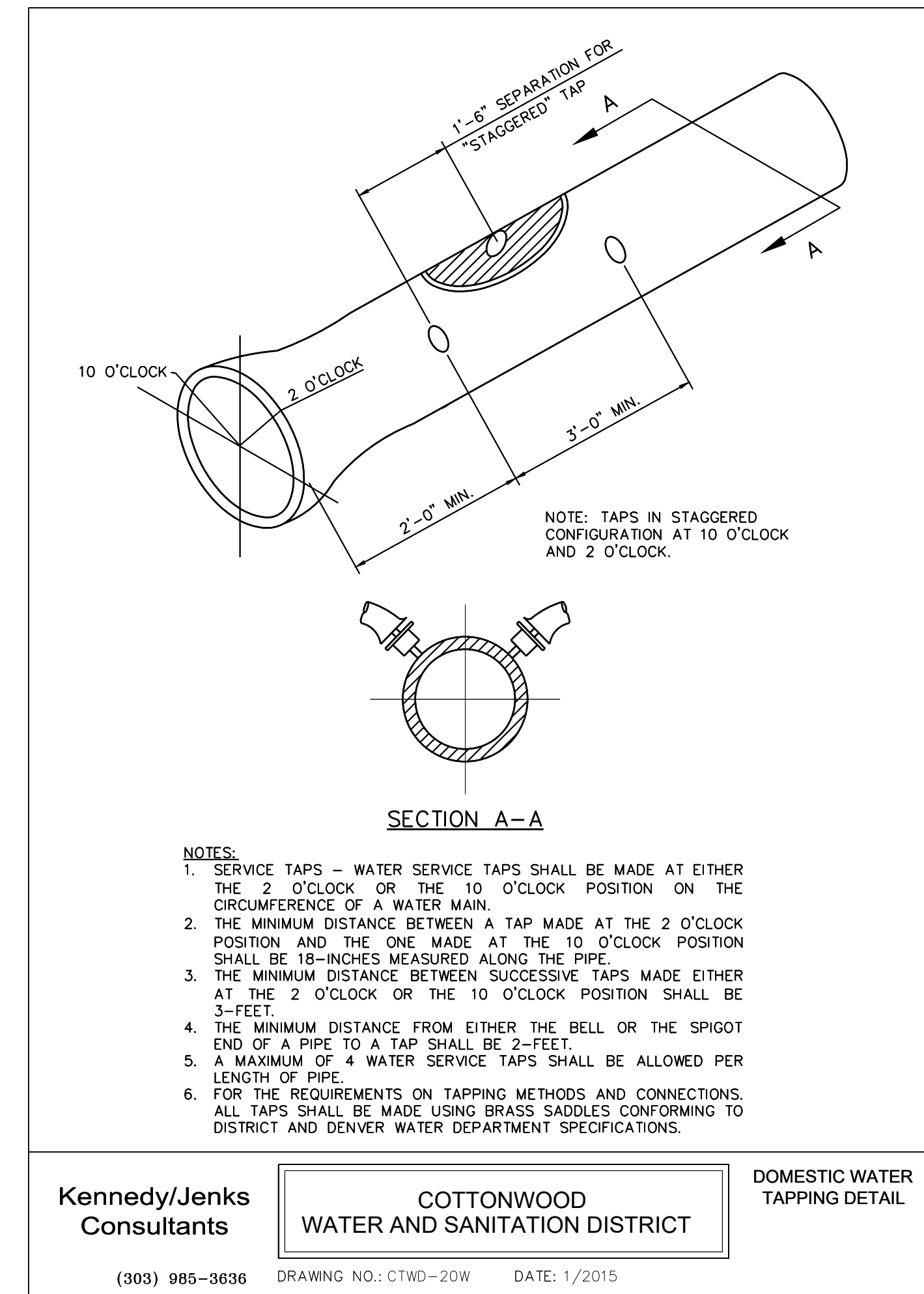
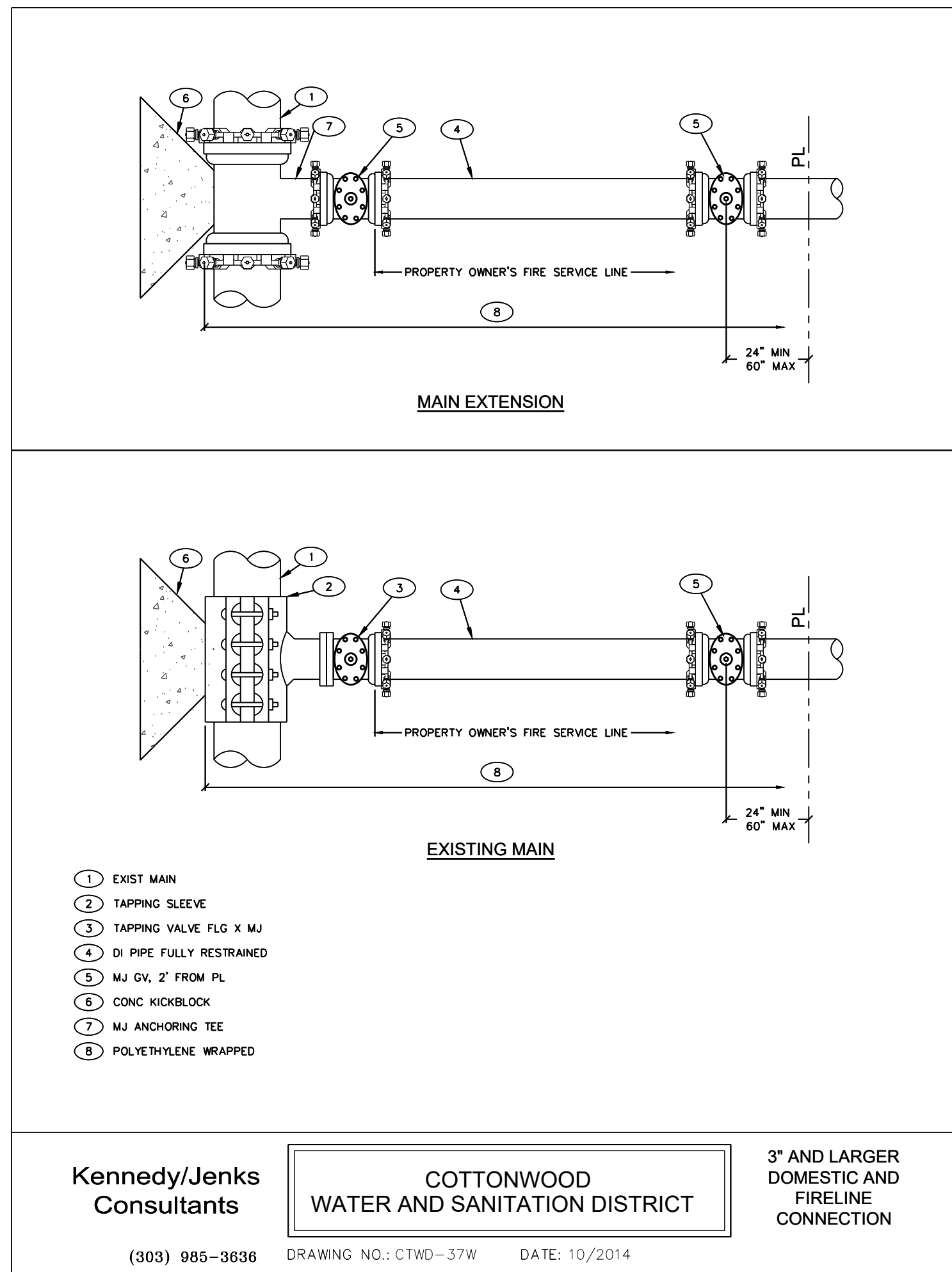
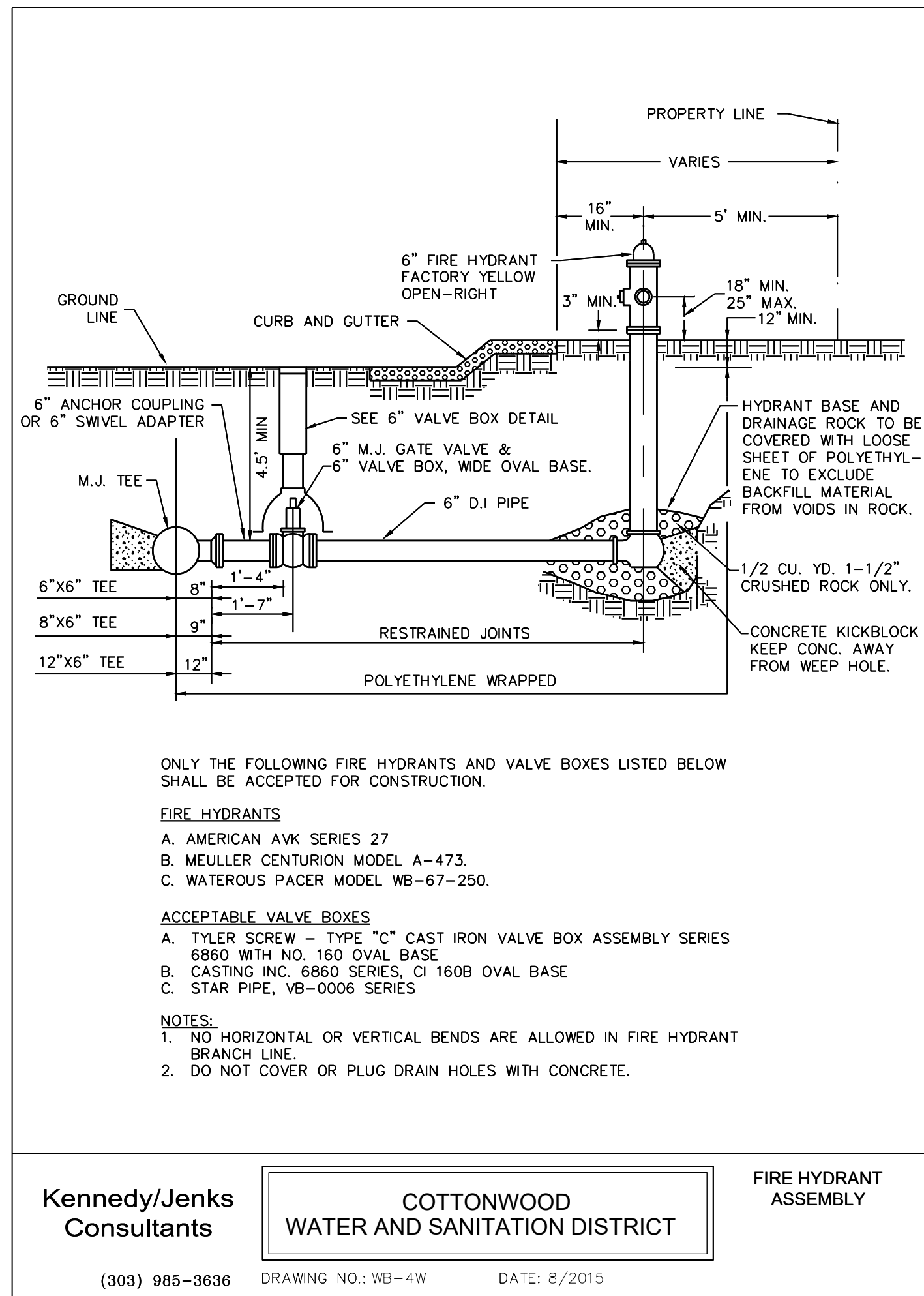
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PROJECT: ADVENTHEALTH PARKER PARKER EXPANSION PARKER, CO 80138

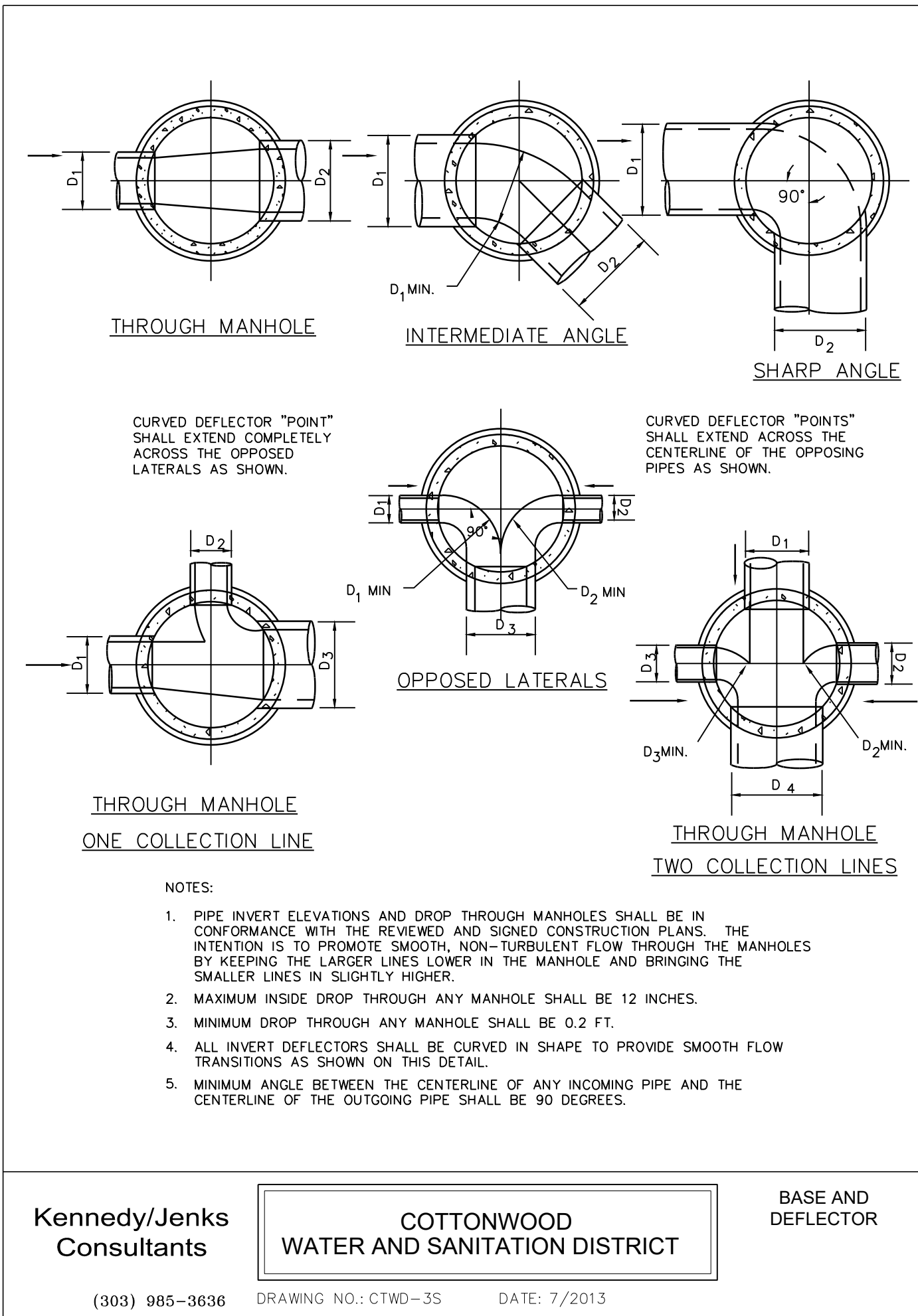
DRAWING TITLE: WATER AND SANITARY DETAILS

FILE PATH: J:\Jobs\23079 AHP Expansion\05 CAD\Plans and Details\C551-WATR-SSEW-DTLS.dwg C551-111772024

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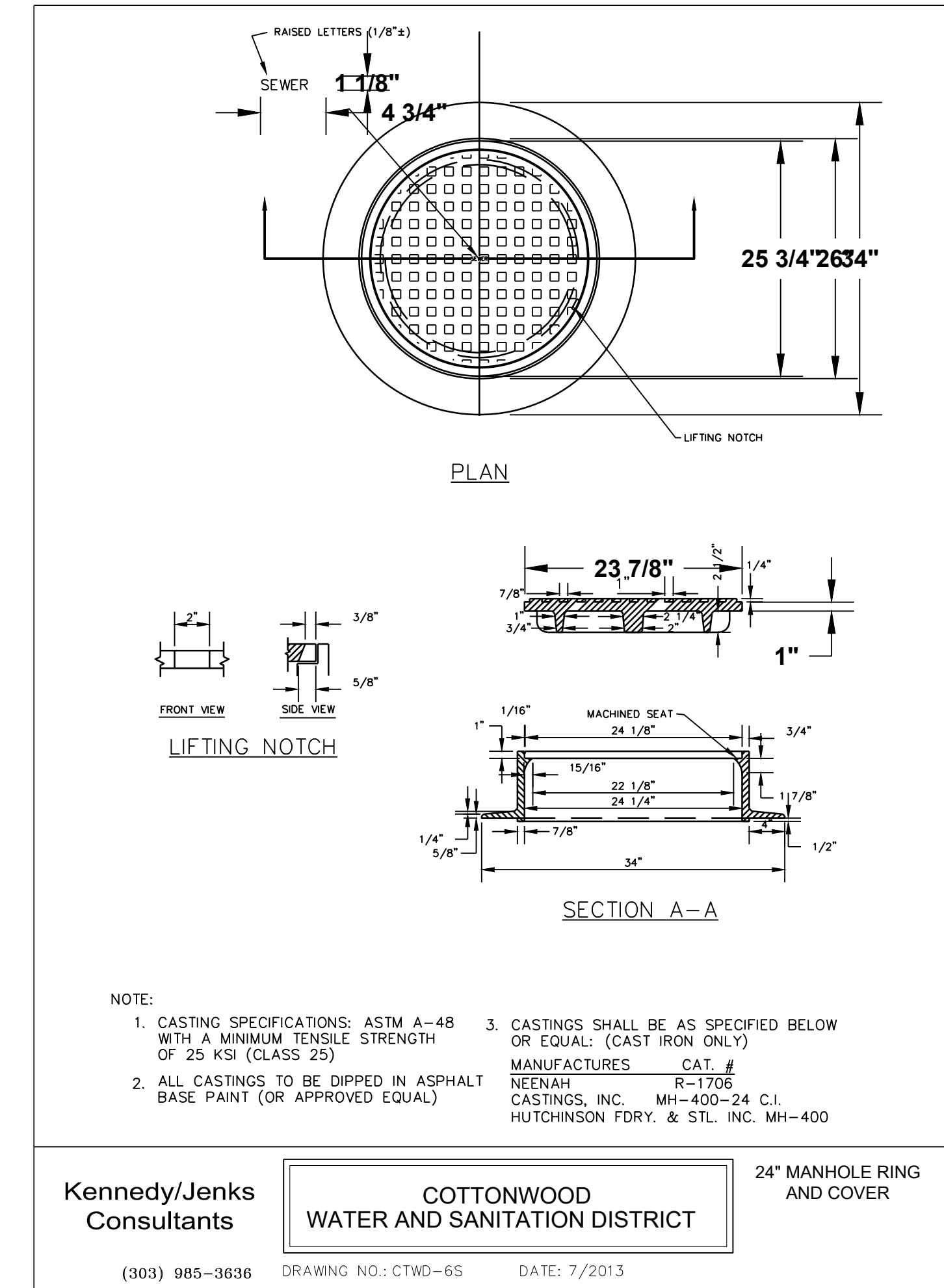
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DRAWING NUMBER: **A-C551**



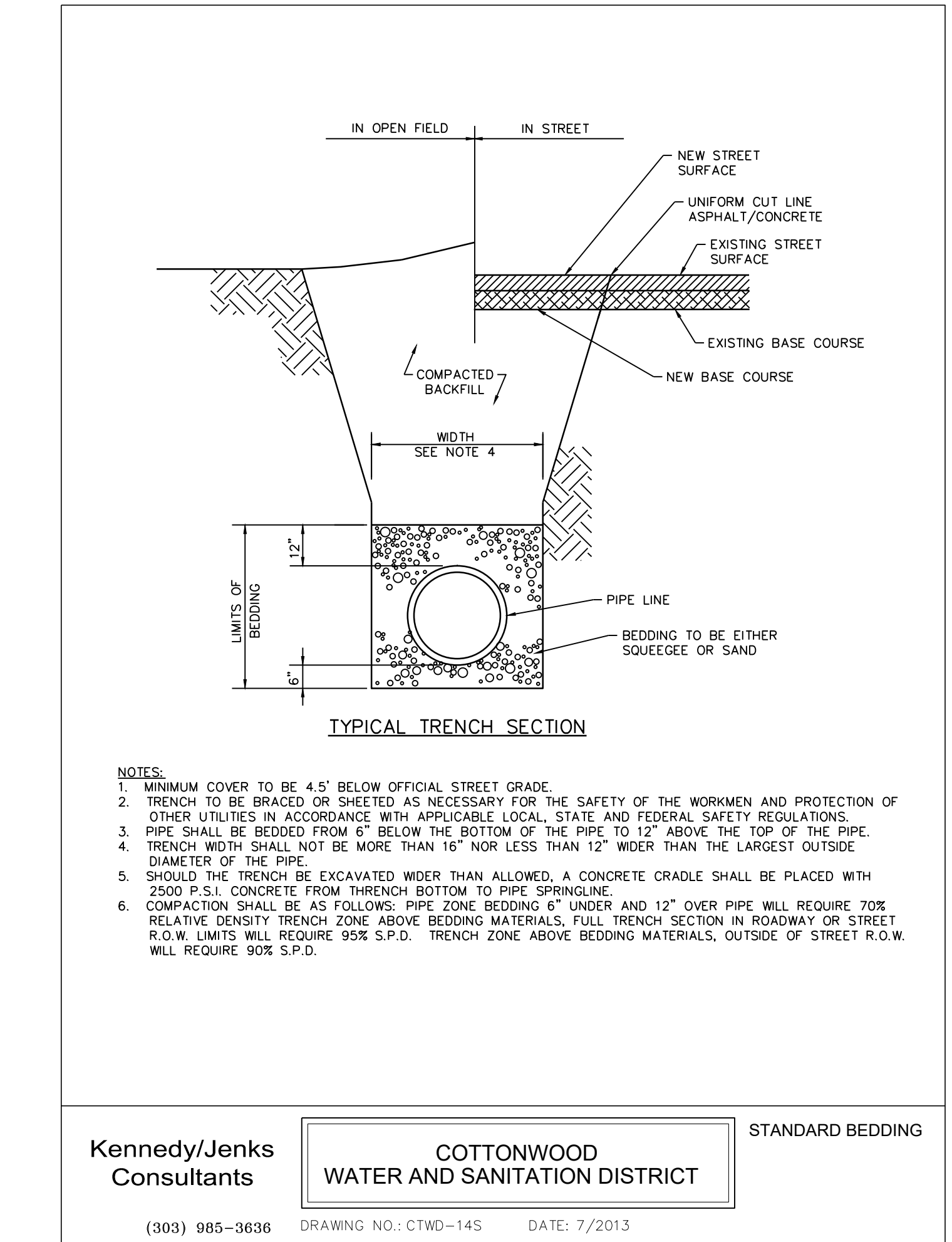
Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **BASE AND DEFLECTOR**

(303) 985-3636 DRAWING NO.: CTWD-3S DATE: 7/2013



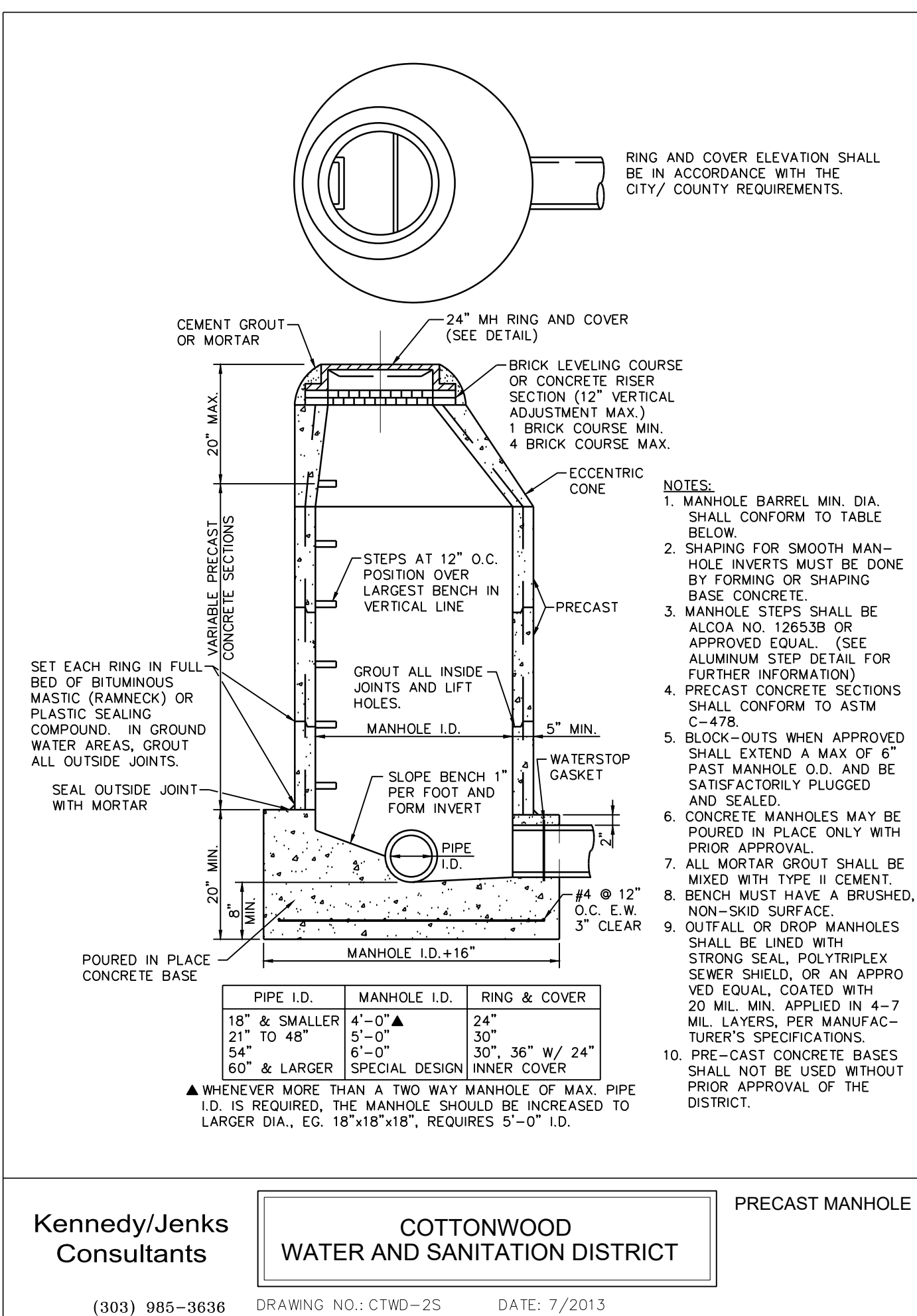
Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **24" MANHOLE RING AND COVER**

(303) 985-3636 DRAWING NO.: CTWD-6S DATE: 7/2013



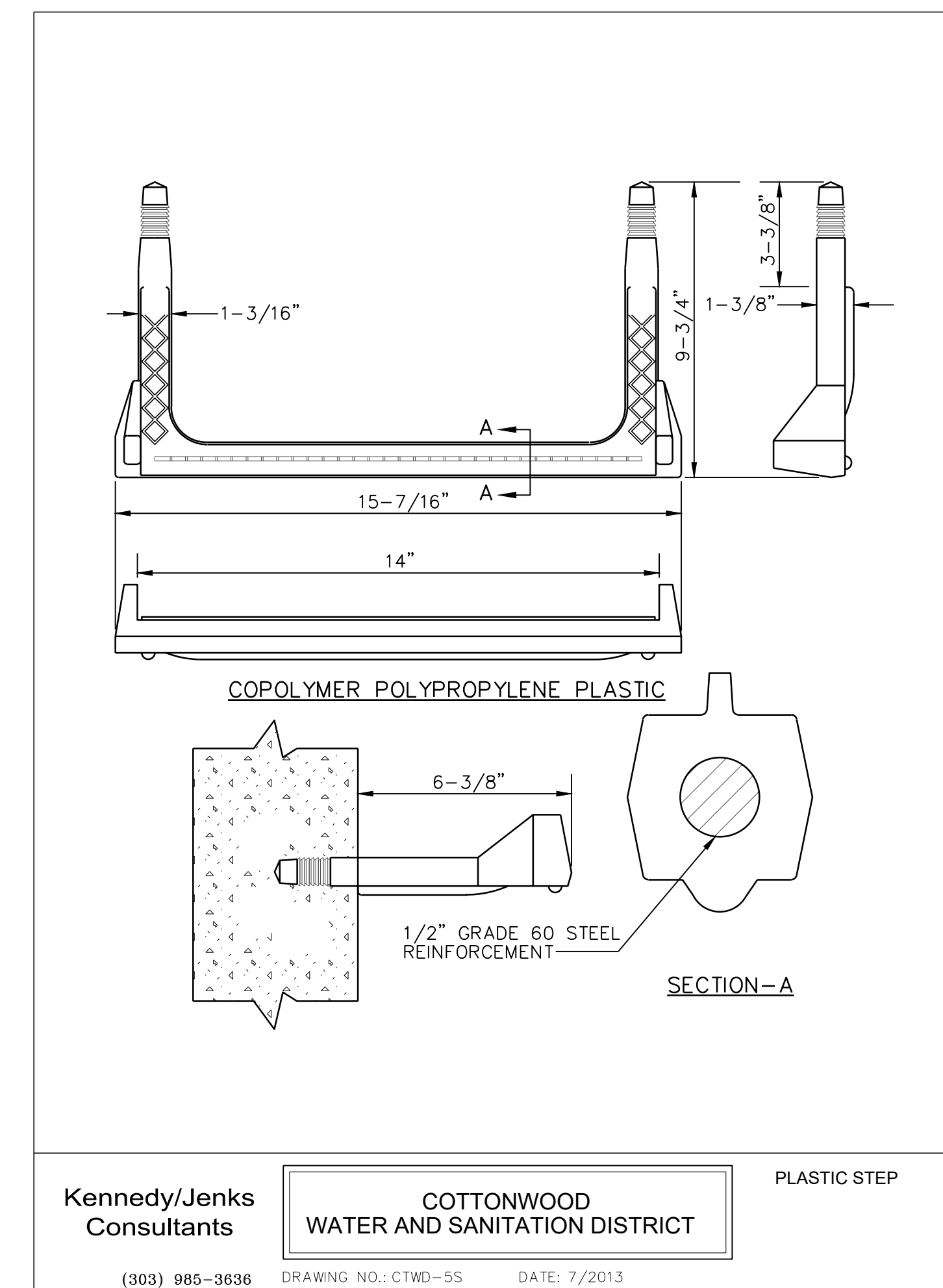
Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **STANDARD BEDDING**

(303) 985-3636 DRAWING NO.: CTWD-14S DATE: 7/2013



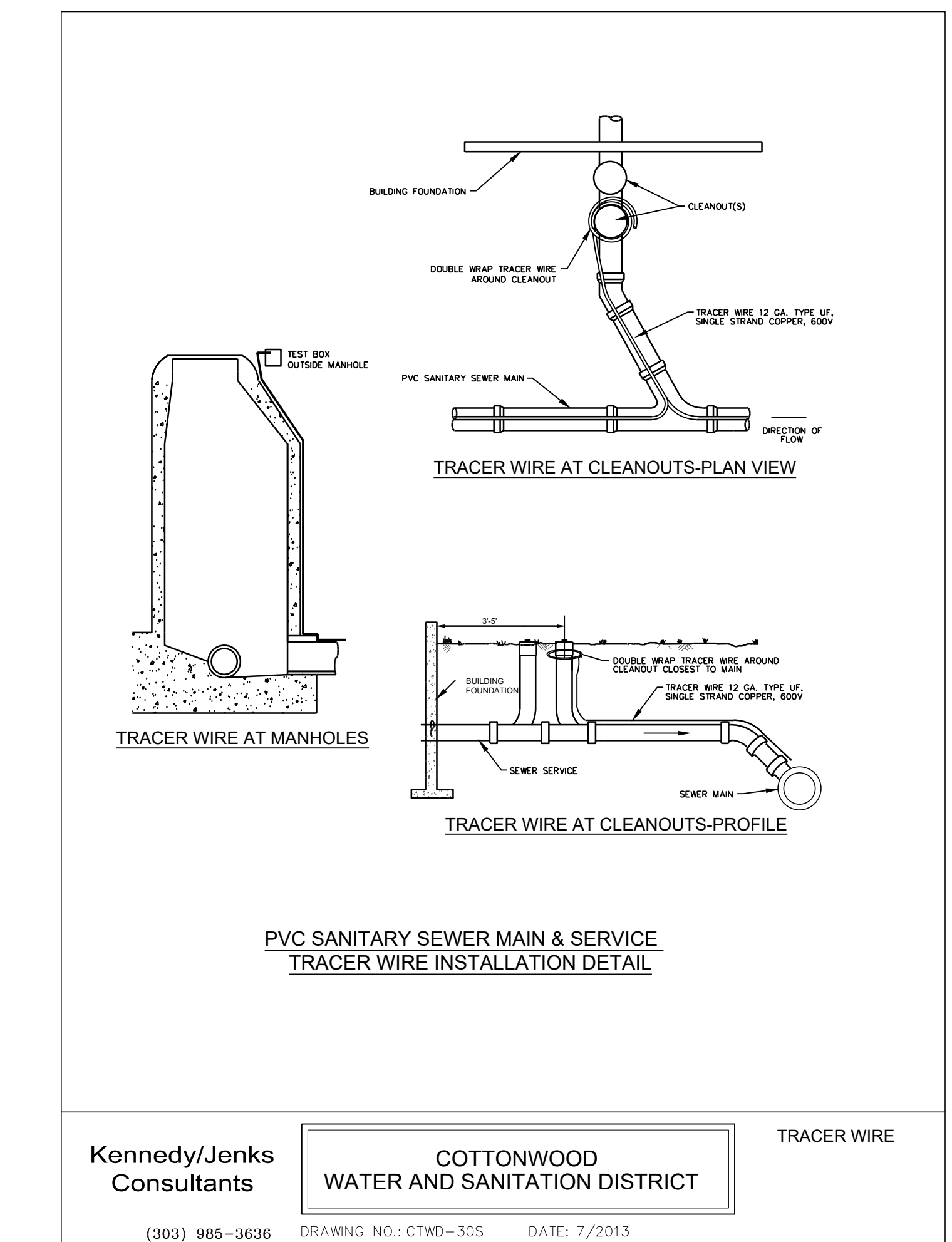
Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **PRECAST MANHOLE**

(303) 985-3636 DRAWING NO.: CTWD-2S DATE: 7/2013



Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **PLASTIC STEP**

(303) 985-3636 DRAWING NO.: CTWD-5S DATE: 7/2013



Kennedy/Jenks Consultants **COTTONWOOD WATER AND SANITATION DISTRICT** **TRACER WIRE**

(303) 985-3636 DRAWING NO.: CTWD-30S DATE: 7/2013

DATE	DESCRIPTION
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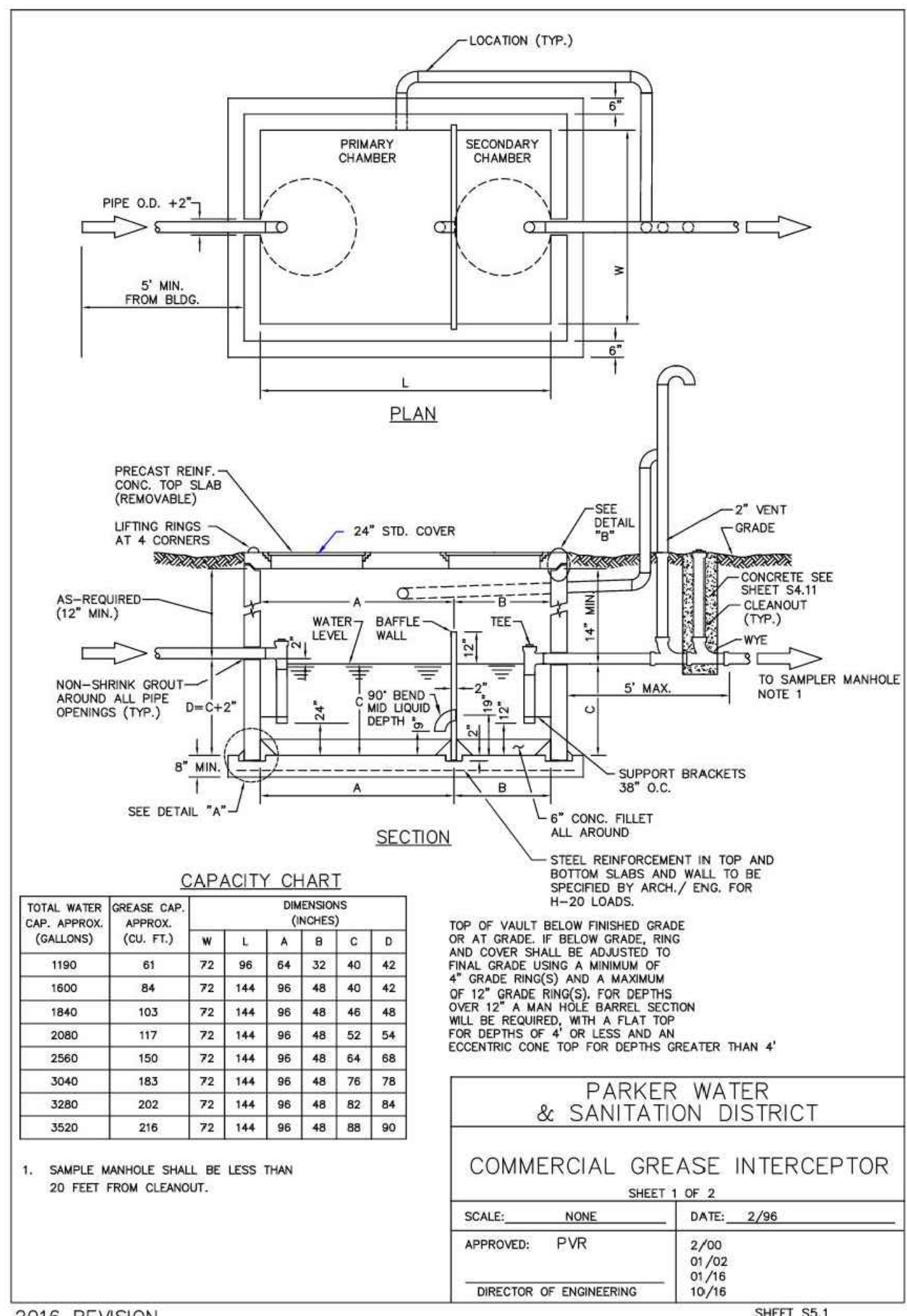
ADVENTHEALTH PARKER EXPANSION PARKER, CO 80138

WATER AND SANITARY DETAILS

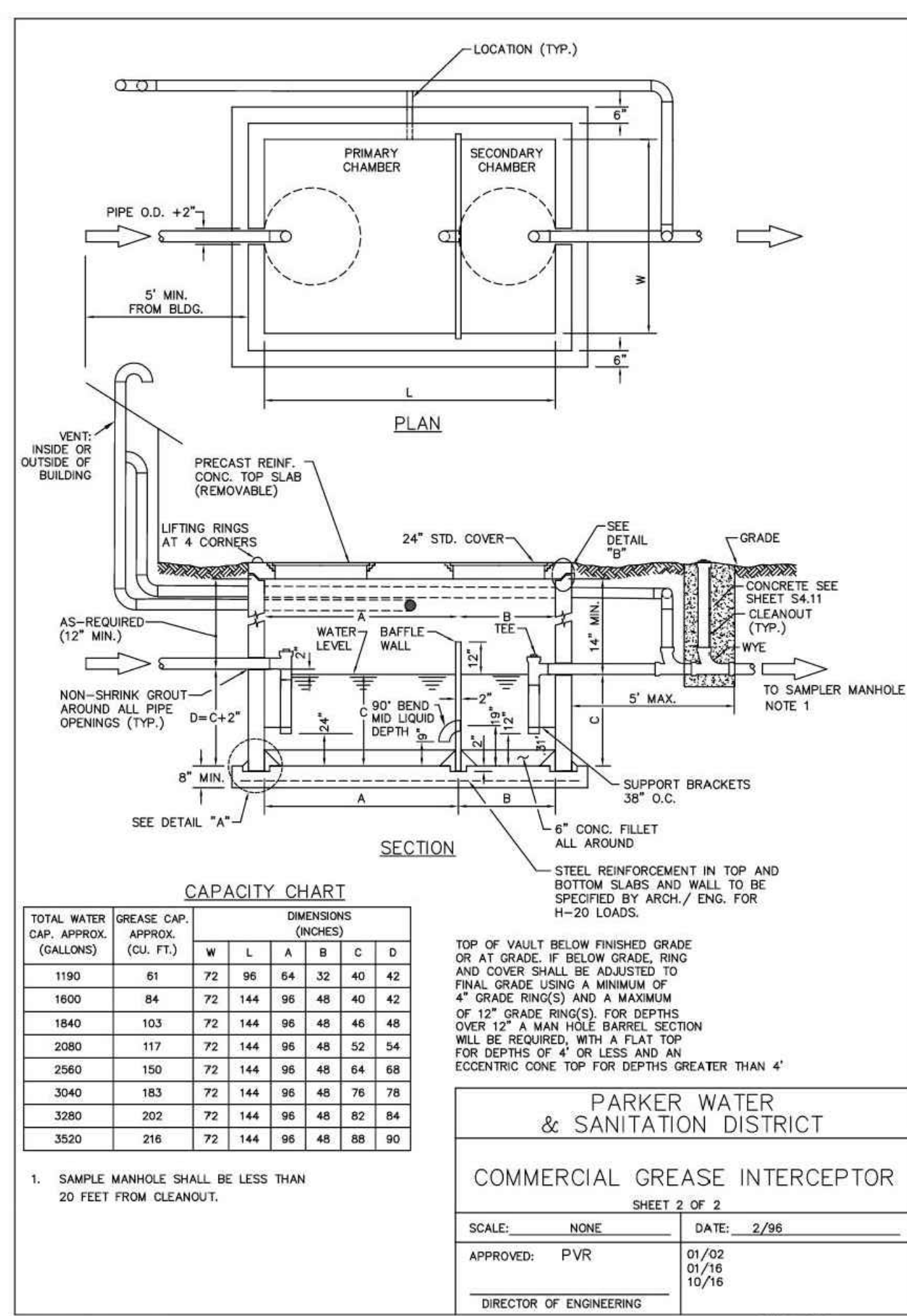
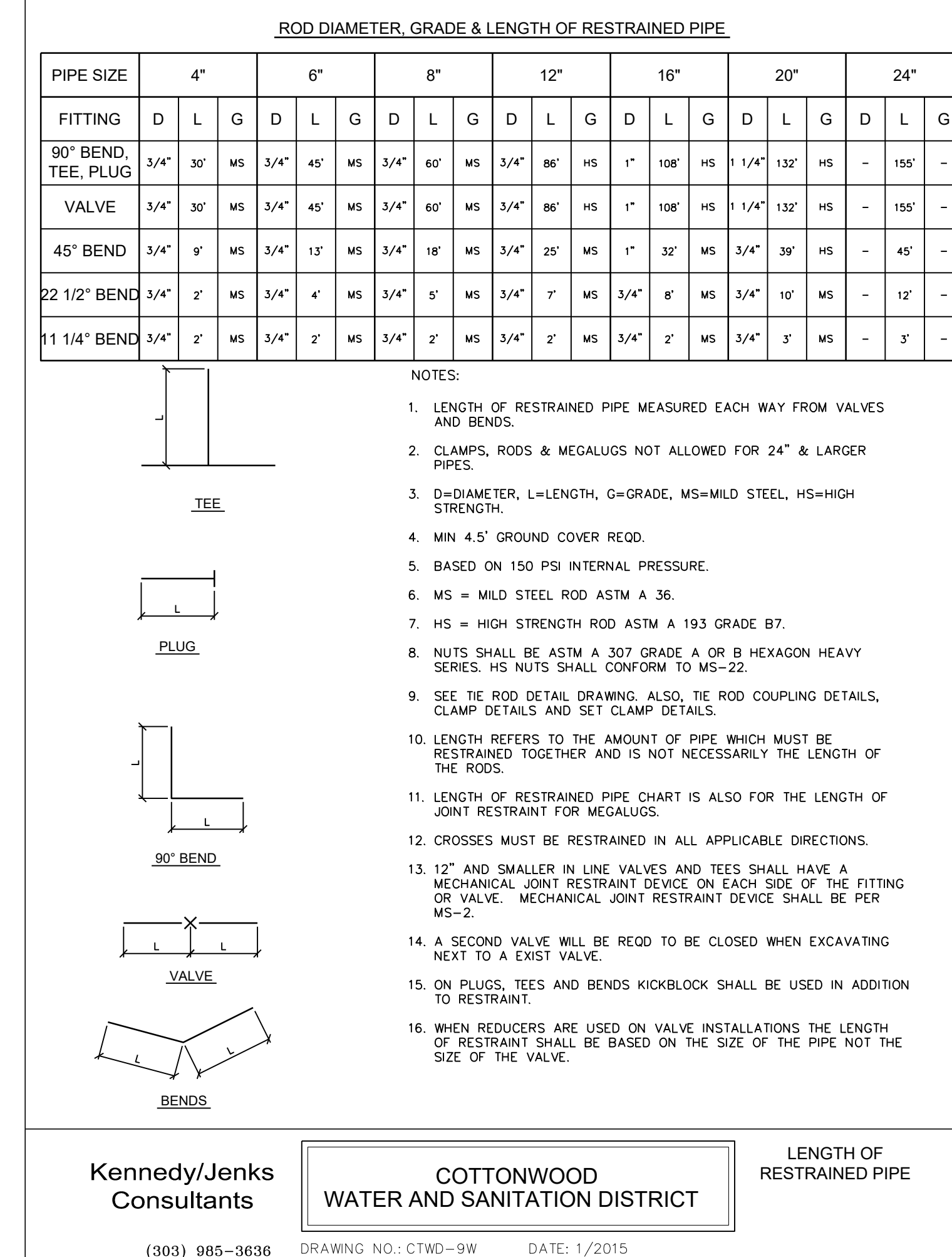
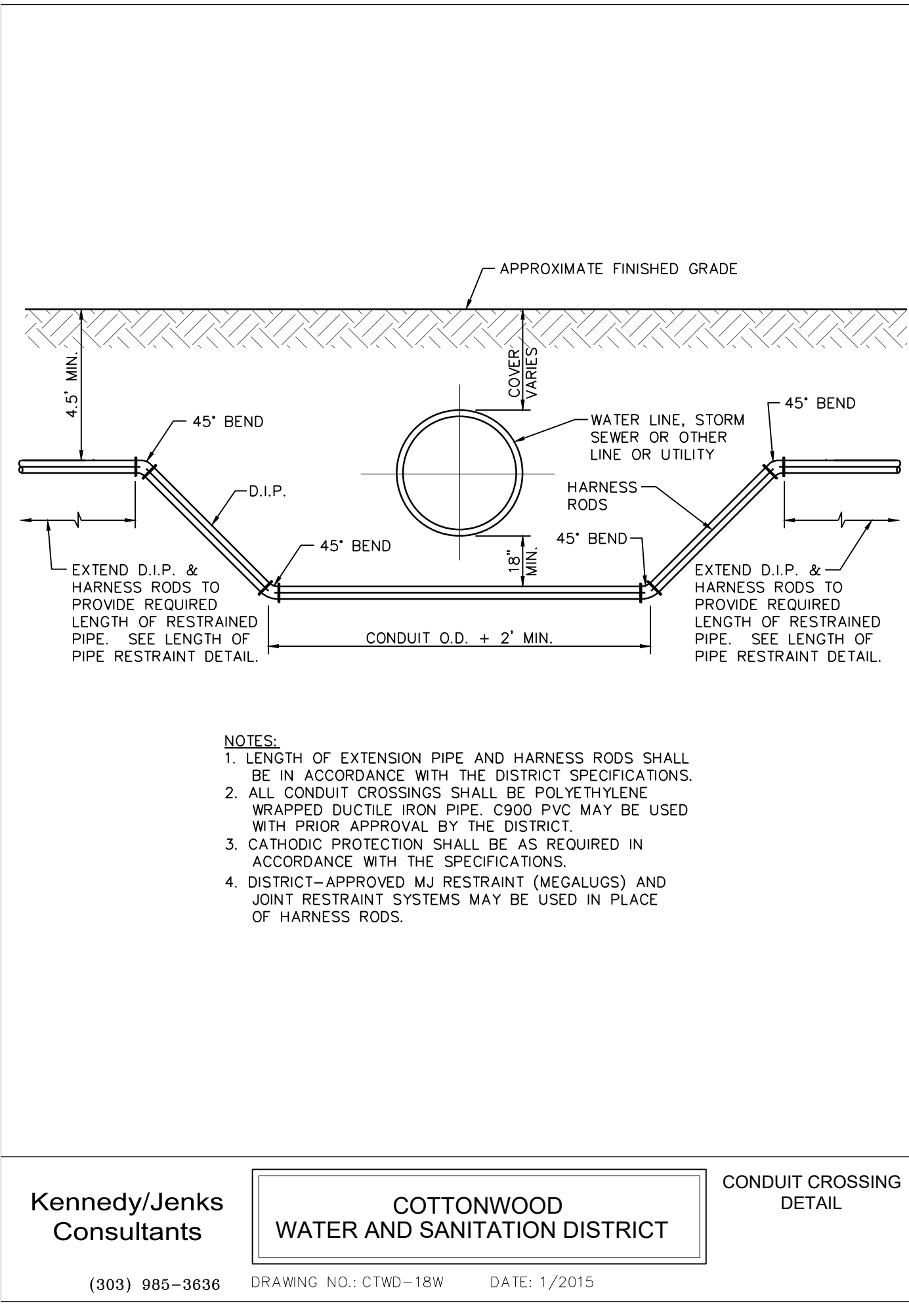
PROJECT: Expansion05 CAD/Plans and Details/C551-WATR-SSEW-DTLS.dwg C552 - 11/7/2024

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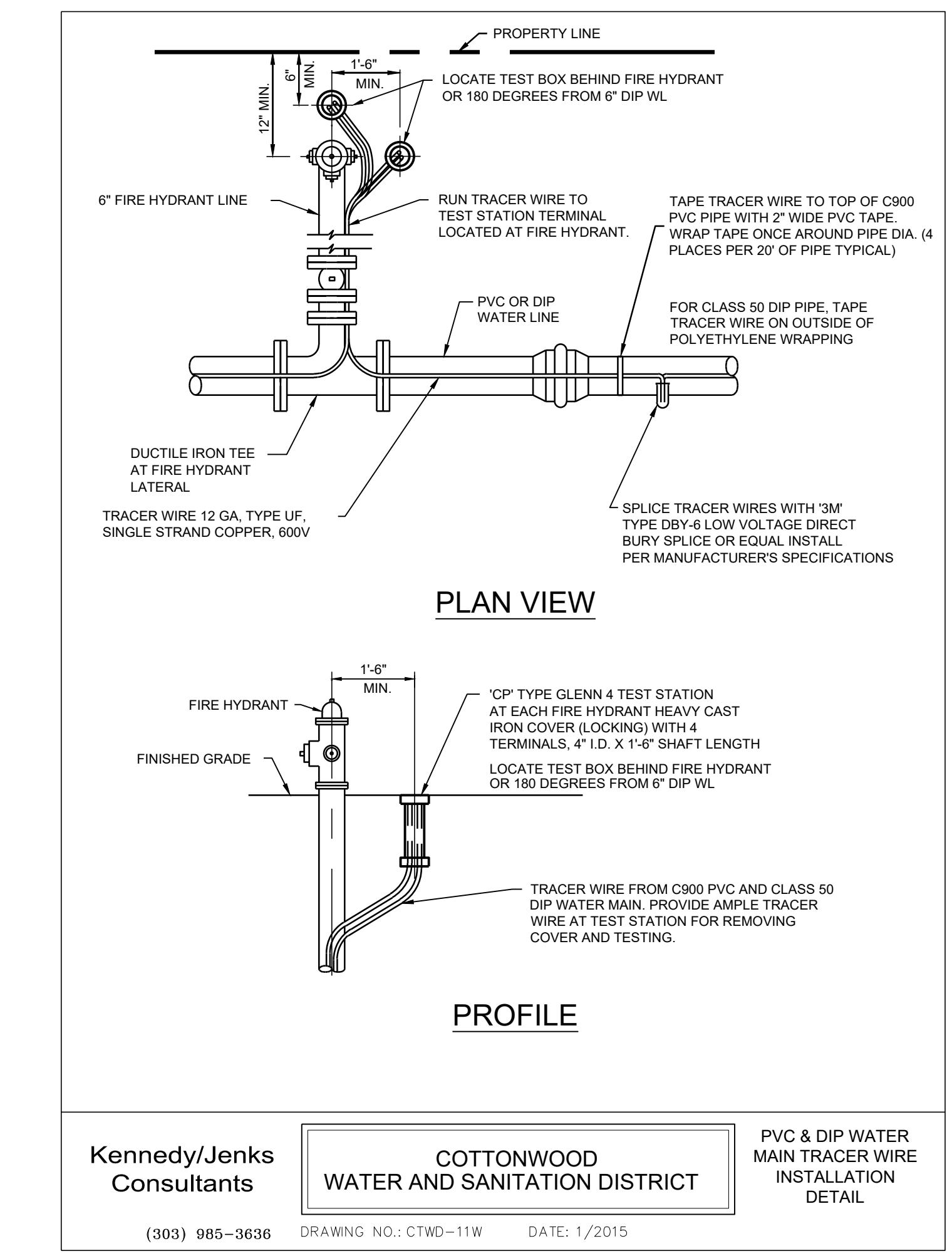
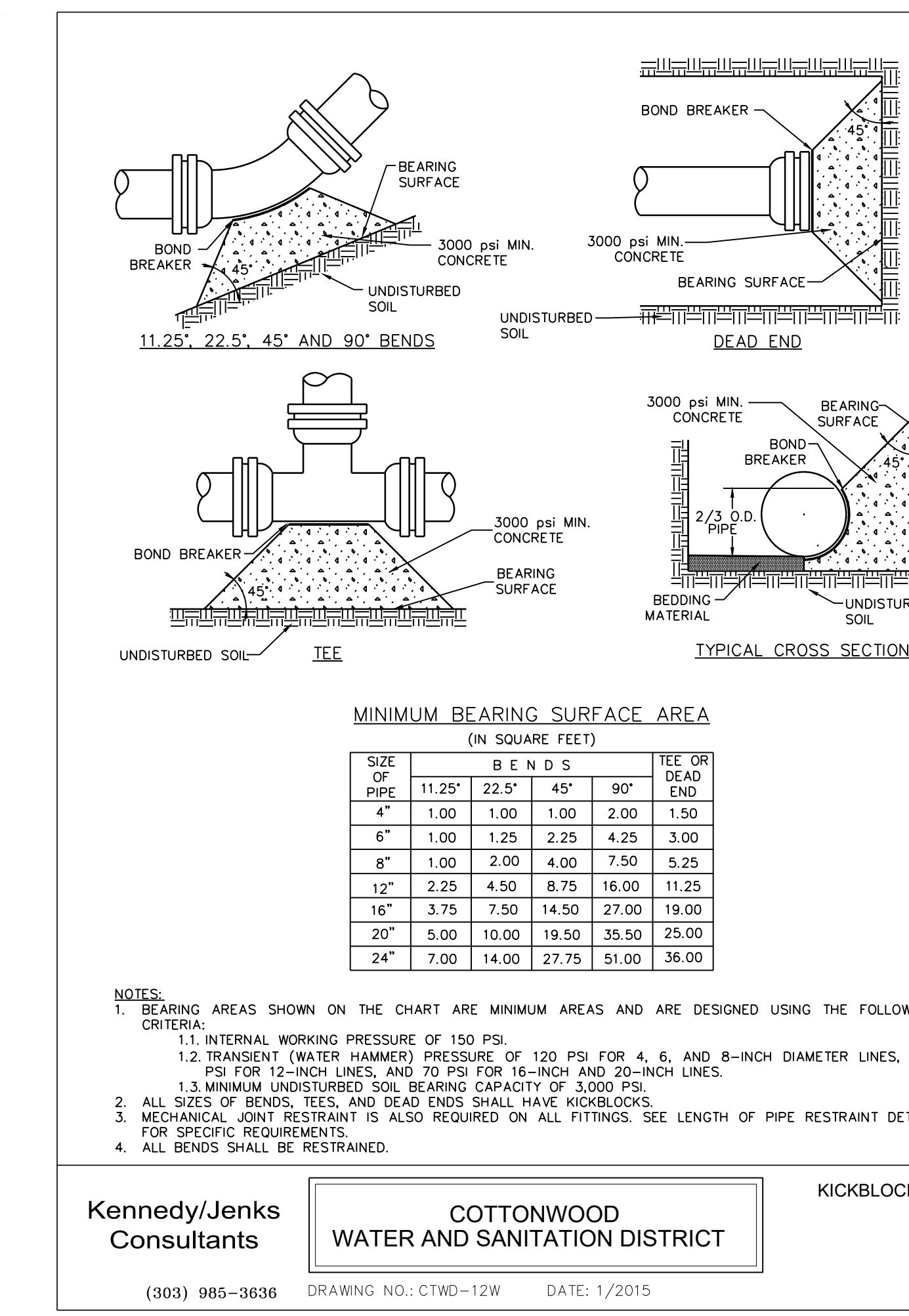
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CHECKED BY: MHV
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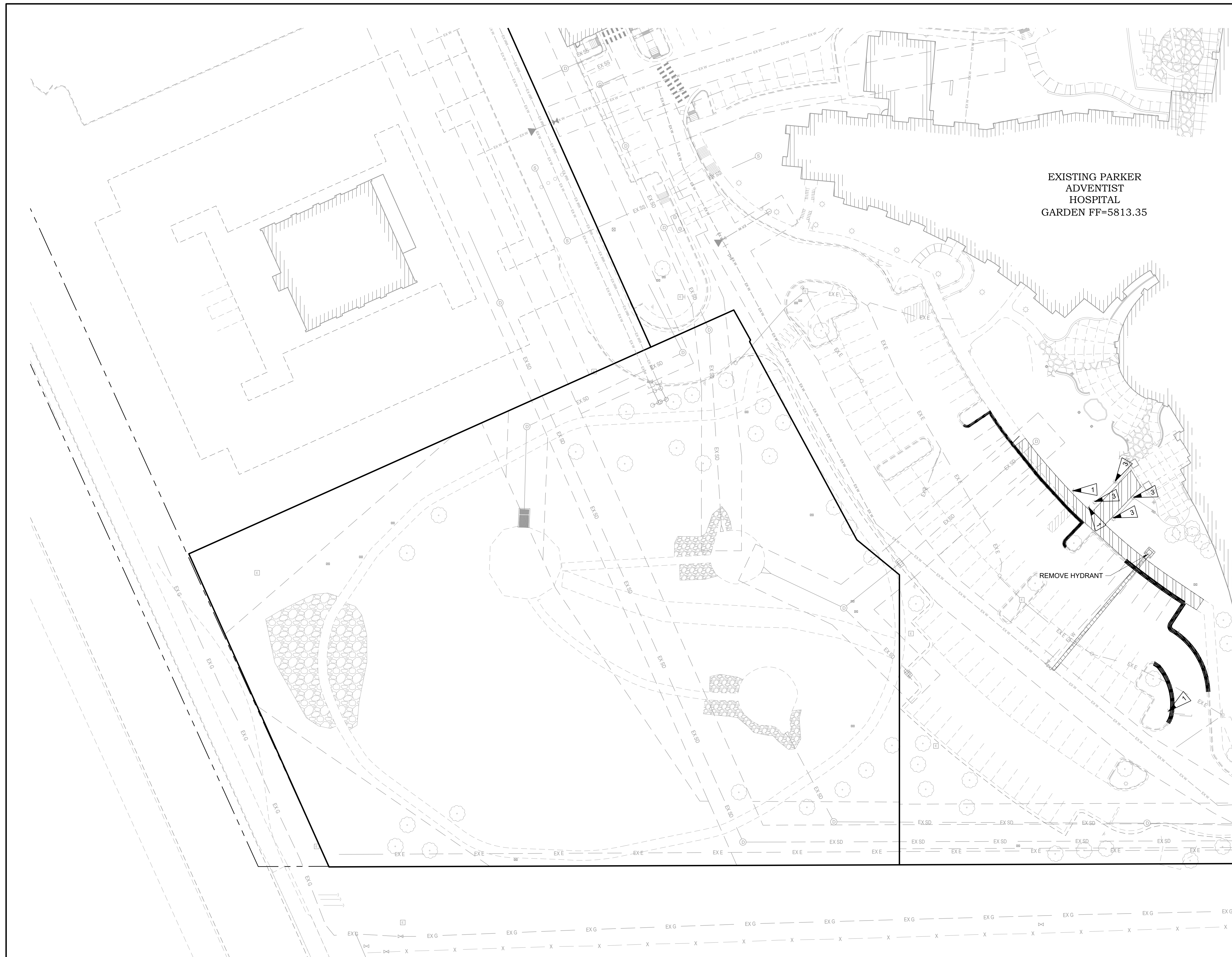
2016 REVISION SHEET SS.1



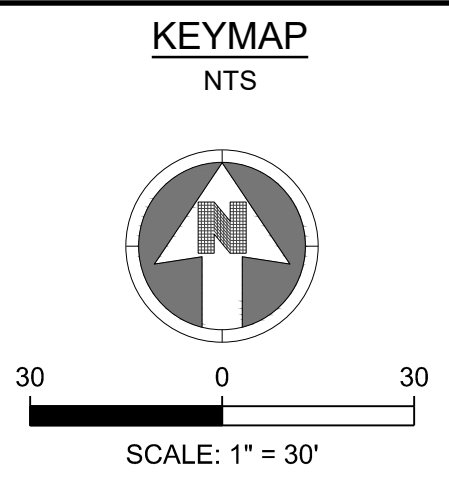
2016 REVISION SHEET SS.2



DATE	DESCRIPTION
06/03/2024	1ST TOWN SUBMITTAL
08/16/2024	2ND TOWN SUBMITTAL
10/10/2024	3RD TOWN SUBMITTAL



EXISTING PARKER
ADVENTIST
HOSPITAL
GARDEN FF=5813.35



NOTES:
1. SEE SHEET A-C001 FOR CIVIL NOTES AND LEGEND.

LEGEND:

	UTILITY TO BE REMOVED
	CURB AND GUTTER REMOVAL
	CONCRETE SIDEWALK REMOVAL
	ASPHALT PAVEMENT REMOVAL
	SAWCUT LINE
	UTILITY TO BE ABANDONED
	REMOVE/ RELOCATE SIGN
	REMOVE/ RELOCATE TREE
	REMOVE/ RELOCATE LIGHT POLE

SEE SHEET A-C112

M I R O
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Denver, CO 80237
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DATE	DESCRIPTION
06/03/2024	1ST TOWN SUBMITTAL
08/16/2024	2ND TOWN SUBMITTAL
10/10/2024	3RD TOWN SUBMITTAL

NO.	DESCRIPTION
1	
2	
3	

PROJECT: **ADVENTHEALTH PARKER EXPANSION
PARKER, CO 80138**

DRAWING TITLE: **DEMOLITION PLAN**

FILE PATH:

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