

CUMBERLAND COUNTY WATER DISTRICT

JOE SCOTT RIDGE

BOOSTER PUMP STATION REPLACEMENT

CUMBERLAND COUNTY, KENTUCKY

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BOARD OF COMMISSIONERS

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 J. R. THACKER
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MANAGER
 MICHAEL BALLARD

LOCAL COUNSEL
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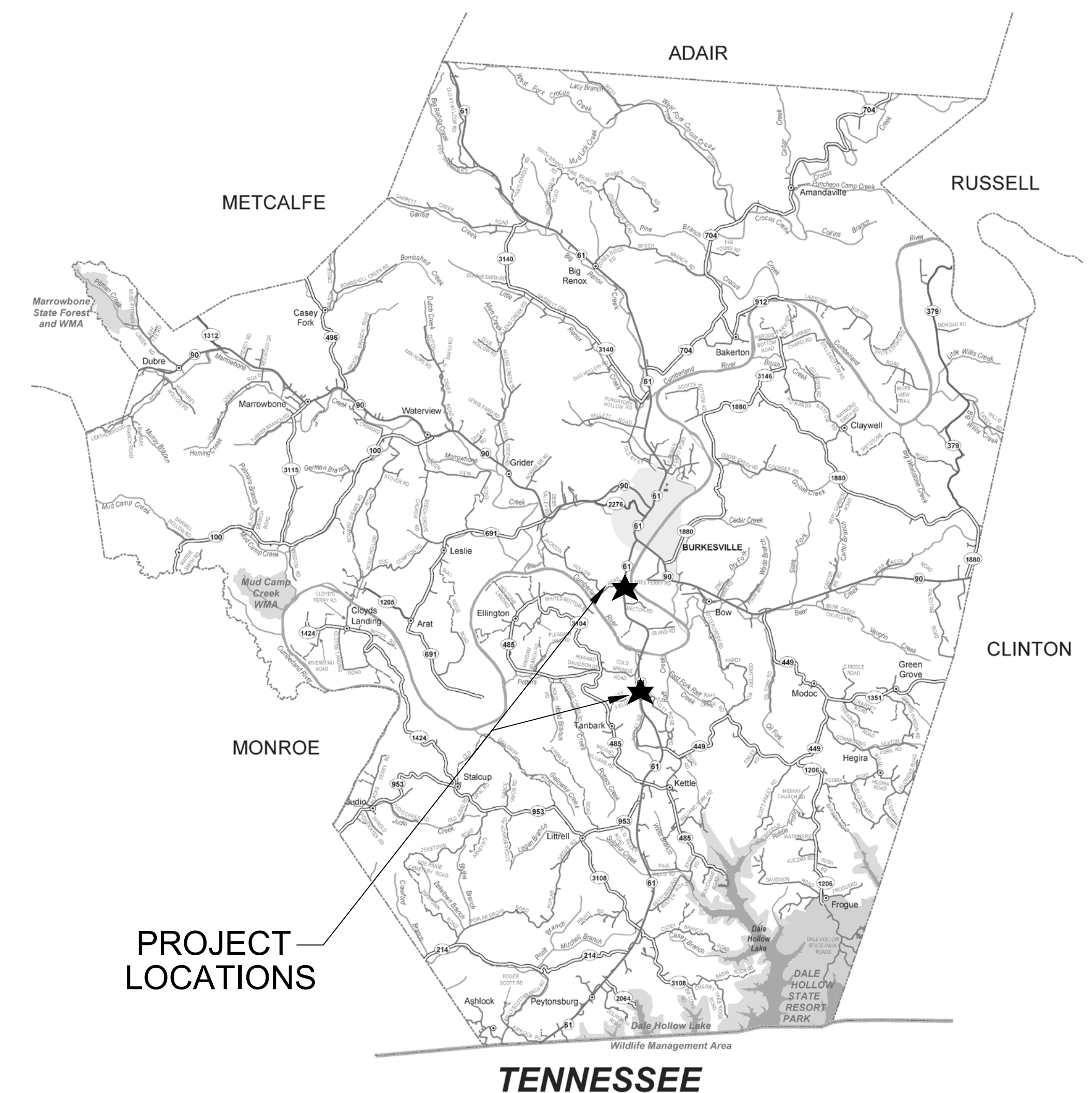
DECEMBER 2025

PROJECT FUNDED BY:

KENTUCKY INFRASTRUCTURE AUTHORITY
 FUND B LOAN PROGRAM
 LOAN NO: B25-014

M
 Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

LOCATION MAP



James Lee Mudd Jr.
 JAMES LEE MUDD JR.
 28693
 LICENSED PROFESSIONAL ENGINEER
 1-2-26

LOCATION AND SCOPE OF PROJECT

THE PROJECT SITE IS GENERALLY DEFINED AS CUMBERLAND COUNTY, KENTUCKY. THE WORK TO BE DONE UNDER THIS CONTRACT INCLUDES FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT THE JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT - CONTRACT IS IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS.

GENERAL NOTES

- IT IS THE INTENTION OF THESE PLANS TO CONSTRUCT ALL WORK IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE CITY OF BURKESVILLE, CUMBERLAND COUNTY, THE KENTUCKY TRANSPORTATION CABINET, THE KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION, AND THE U.S. ARMY CORPS OF ENGINEERS. WHERE THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS AND THE PERMIT REQUIREMENTS OF THE AGENCY CONTROLLING THE UTILITY OR RESPECTIVE RIGHTS-OF-WAY, THE MORE RESTRICTIVE SHALL GOVERN.
- THE CONTRACTOR AND ANY APPLICABLE SUBCONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING AT THE TIME AND PLACE ARRANGED BY THE ENGINEER, IN WHICH THE AFFECTED PARTIES WILL BE PRESENT. ALSO, A PRE-EXCAVATION WALK THROUGH WILL NEED TO BE ATTENDED BY THE CONTRACTOR.
- FOLLOWING THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR INSPECTION COORDINATION. NO WORK CAN COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED AND THE CONTRACTOR HAS BEEN GIVEN THE AUTHORITY TO PROCEED.
- THE CONTRACTOR SHALL NOTIFY KENTUCKY 811 AT LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION, FOR LOCATION AND MARKING OF ALL EXISTING UTILITIES.
- LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING AND VERIFYING THE LOCATION, DEPTH, AND ELEVATION OF THE EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY CONFLICTS ARE APPARENT OR IF LOCATIONS AND DEPTHS DIFFER SIGNIFICANTLY FROM THE PLANS.
- ALL ELEVATIONS REFER TO THE CURRENT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).
- THE ENGINEER HAS NOT PERFORMED PROPERTY OR RIGHT-OF-WAY SURVEYS FOR ANY OF THE AREAS INCLUDED IN THIS PROJECT. RIGHT-OF-WAY OR PROPERTY LINES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL ORIENTATION ONLY. PROPERTY CORNERS OR OTHER SURVEY MARKERS HAVE NOT BEEN LOCATED, UNLESS SPECIFICALLY CALLED OUT ON THE PLANS.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION OF THE PROPERTY OR FACILITY BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- IF, IN THE OPINION OF THE ENGINEER, WORK HAS NOT PROGRESSED IN A REASONABLE AND TIMELY MANNER, THE ENGINEER SHALL HAVE THE RIGHT, WITH THE APPROVAL OF THE OWNER, TO DIRECT THE CONTRACTOR TO PROCEED WITH THE WORK OR ANY PORTION THEREOF IMMEDIATELY. IN THE EVENT THAT THE CONTRACTOR DOES NOT PROCEED WITH THE WORK IMMEDIATELY, AS DIRECTED BY THE ENGINEER, THE ENGINEER, UNDER THE DIRECTION OF THE OWNER, MAY ORDER ANY OR ALL OTHER OPERATIONS OF THE CONTRACTOR, UNDER THIS CONTRACT, TO CEASE UNTIL THE CLEANUP AND RESTORATION WORK IS PROCEEDING IN AN ACCEPTABLE MANNER. SHOULD THE CONTRACTOR FAIL TO COMPLY WITH THESE PROVISIONS, THE OWNER MAY, WITH OR WITHOUT NOTICE, CAUSE THE REQUIRED RESTORATION AND CLEANUP TO BE DONE BY THE OWNER OR OTHERS AND WILL DEDUCT THE COST OF SAID WORK FROM ANY FUNDS DUE OR TO BECOME DUE TO THE CONTRACTOR UNDER THIS CONTRACT. THE PERFORMANCE OF SUCH WORK BY THE OWNER OR OTHERS SHALL SERVE IN NO WAY TO RELEASE THE CONTRACTOR FROM HIS GENERAL OF PARTICULAR LIABILITY FOR THE SAFETY OF THE PUBLIC OR COMPLETION OF THE WORK.
- ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.
- ALL WORK SHALL BE INCORPORATED IN TO THOSE UNIT PRICES LISTED IN THE CONTRACT DOCUMENTS. ANY ITEMS NOT SPECIFICALLY LISTED IN THE UNIT PRICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE ELIGIBLE FOR SEPARATE PAYMENT OR COMPENSATION.

EROSION AND SEDIMENTATION CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS OF BOTH THE STATE OF KENTUCKY AND THE U.S. ARMY CORPS OF ENGINEERS FOR ALL DISTURBED AREAS INCLUDED IN THE PROJECT.
- THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN A MANNER THAT WILL REDUCE ACCELERATED EROSION TO THE PRACTICAL MINIMUM AND PREVENT DAMAGING SILTATION TO EXISTING SEWERS AND WATER COURSES LEADING FROM THE PROJECT AREA.
- THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT THE ENTRY OF FUELS, OILS, BITUMINOUS MATERIALS, CHEMICALS, SEWERAGE, OR OTHER HARMFUL MATERIALS INTO NEARBY LAKES AND STREAMS.
- WASTE DISPOSAL AREAS SHALL BE SELECTED BY THE CONTRACTOR WITH FULL CONSIDERATION OF EROSION AND SEDIMENT CONTROL, SELECTION OF DISPOSAL SITE(S), AND CONTROL OF OPERATIONS, AND THE RESTORATION OF SAID AREAS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- EXCAVATIONS FROM THE PROJECT AREA INCLUDING CHANNELS AND WATERCOURSES SHALL NOT BE DEPOSITED IN OR NEAR RIVERS, STREAMS, OR PONDS WHERE IT MAY ENTER THE WATERWAY.
- AT THE COMPLETION OF EACH DAYS CONSTRUCTION, CARE SHOULD BE TAKEN TO ENSURE THAT MINIMAL EROSION WILL OCCUR IN TRENCHES AND TO STOCKPILED MATERIALS UNTIL RESUMPTION OF WORK.
- THE CONTRACTOR SHALL CONFINE CONSTRUCTION OPERATIONS TO THE MINIMUM AMOUNT OF WORKING SPACE PRACTICAL TO AID IN THE MINIMIZATION OF SOIL EROSION.
- THE PROJECT WILL BE CONTINUALLY OBSERVED BY VARIOUS STATE & LOCAL REGULATORY AGENCIES FOR EROSION CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY UPON NOTICE OF SUCH DEFICIENCIES. FAILURE TO CORRECT THE DEFICIENCIES MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND THERE WILL BE NO CONTRACT TIME EXTENSION GRANTED FOR THIS TYPE OF STOPPAGE.
- TEMPORARY SOIL EROSION CONTROL MEASURES CONSISTING OF SILT FENCE, MULCHING, AND TARPING SHALL BE IMPLEMENTED THROUGHOUT THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT, AND SHALL BE REMOVED BY THE CONTRACTOR AFTER THE PERMANENT SOIL EROSION MEASURES HAVE BEEN ESTABLISHED.
- PERMANENT SOIL EROSION MEASURES CONSISTING OF AN APPROVED SEED MIXTURE AND MULCH BLANKET SHALL BE COMPLETED WITHIN FIVE (5) CALENDAR DAYS OF FINAL GRADING. IN THE EVENT IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE AREA DUE TO SITE CONDITIONS OR SEASONAL LIMITATIONS, THE TEMPORARY MEASURES SHALL REMAIN IN FORCE AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME IT IS PRACTICAL TO COMPLETE THE PERMANENT SOIL EROSION CONTROL MEASURES.
- THE ENGINEER SHALL HAVE FULL AUTHORITY TO TEMPORARILY SUSPEND WORK IN THE EVENT THAT ANY OF THE ABOVE REQUIREMENTS ARE NOT BEING MET BY THE CONTRACTOR, OR IF CONDITIONS INDICATE THAT ADDITIONAL TEMPORARY MEASURES ARE WARRANTED, IN THE OPINION OF THE ENGINEER OR REGULATORY AGENCIES.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL INLET FILTERS AT ALL INLETS IN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ANY REQUIRED ACCESS ROAD SURFACES AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT.
- ALL NON-PAVED DISTURBED AREAS SHALL BE RESTORED AS INDICATED ON THE PLANS. IF NOT SPECIFICALLY STATED ON THE PLANS, RESTORATION SHALL CONSIST OF 4-INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH. UNLESS OTHERWISE STATED, ALL DISTURBED AREAS SHALL BE SEEDDED WITH A SEED MIX APPROVED BY THE ENGINEER.

WORK LIMITS

IF INDICATED ON THE PLANS, THE CONTRACTOR SHALL KEEP ALL OPERATIONS WITHIN THE WORK LIMITS SHOWN. OTHERWISE, THE CONTRACTOR SHALL ESTABLISH CONSTRUCTION LIMITS WITHIN THE EXISTING AND/OR PROPOSED RIGHTS-OF-WAY AND EASEMENTS AS DIRECTED BY THE ENGINEER. THIS REQUIREMENT SHALL INCLUDE MATERIAL STOCKPILING AND EQUIPMENT STORAGE. THE CONTRACTOR MAY NOT EXIT THE ESTABLISHED PROJECT WORK LIMITS WITHOUT EXPLICIT PERMISSION FROM THE OWNER AND THE ENGINEER.

UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH KENTUCKY LAW, THE CONTRACTOR SHALL DIAL KENTUCKY 811 A MINIMUM OF THREE (3) FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING WORK IN EACH EXCAVATION AREA WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE 'KY 811' ALERT SYSTEM. UTILITY LOCATIONS SHOWN ON THE PLANS ARE ONLY APPROXIMATE AND SHOULD BE LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION.

WORK WITHIN PUBLIC ROAD RIGHT-OF-WAYS

WHEN PERFORMING WORK ALONG OR ACROSS ANY PUBLIC ROADWAY, THE CONTRACTOR SHALL POST WARNING SIGNS PAINTED ORANGE AND THEY SHALL BE FOUR FEET BY FOUR FEET MOUNTED ON POSTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE SIGNS SHALL BE AS FOLLOWS:

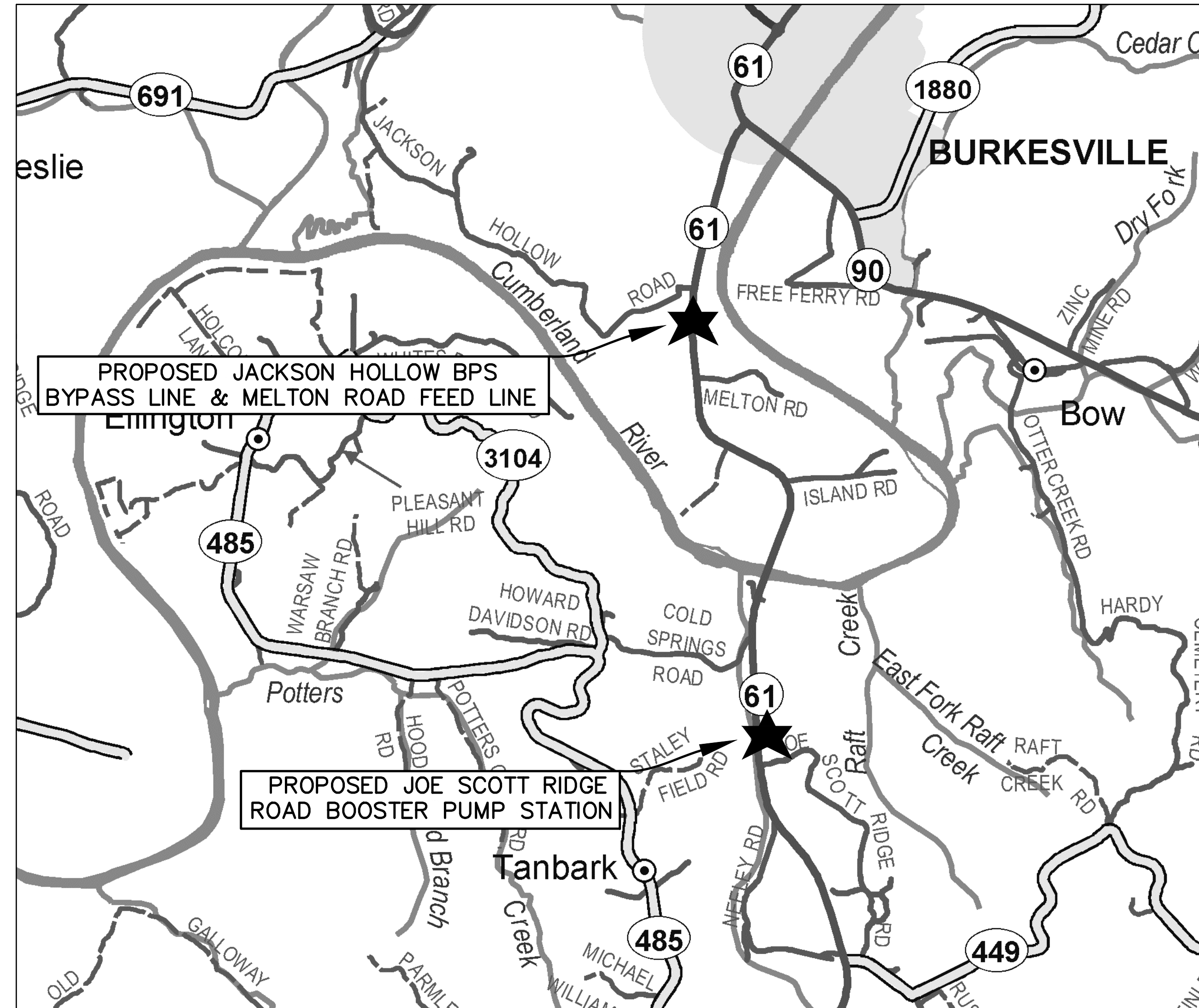
- CAUTION PIPELINE CONSTRUCTION 1500 FEET
- CAUTION PIPELINE CONSTRUCTION 1000 FEET
- CAUTION PIPELINE CONSTRUCTION 500 FEET

ALL SIGNS, BARRICADES, LIGHTS, AND TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL MAINTAIN TWO FLAG MEN AT ALL TIMES WHERE MACHINERY IS IN OPERATION WHERE THE FLOW OF TRAFFIC WILL BE DISTURBED. THERE IS NO EXCEPTION TO THIS REQUIREMENT. THE USE OF RADIOS WILL BE REQUIRED WHEN VISUAL CONTACT BETWEEN THE FLAGMEN DOES NOT EXIST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ENTIRE ROADWAY FREE AND CLEAR AT THE END OF EACH WORKING DAY. NO EQUIPMENT SHALL BE LEFT ON OR PARKED ALONG THE ROAD RIGHT OF WAY. AT THE COMPLETION OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AND INSTALL ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND LIGHTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PROJECT LOCATION MAPS



WORK WITHIN STREAMS, CREEKS & WATERWAYS

ANY AND ALL WORK TO BE COMPLETED WITHIN STREAMS, CREEKS & WATERWAYS SHALL BE COMPLETED ONLY DURING TIMES OF LOW FLOW AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL STRICTLY LIMIT THE USE OF HEAVY EQUIPMENT WITHIN THE WATERCOURSE AT ALL TIMES. STREAM FLOW SHALL NOT BE RESTRICTED OR IMPEDED AT ANY TIME DURING THE COURSE OF CONSTRUCTION.

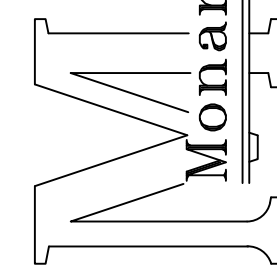
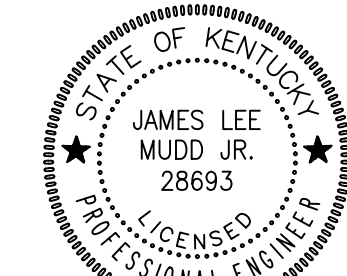
WATER & SEWER MAIN SEPARATION

WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. FOR GRAVITY SEWERS WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE KENTUCKY DIVISION OF WATER MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS. SUCH DEVIATION MAY ALLOW INSTALLATION OF A WATER MAIN CLOSER TO A GRAVITY SEWER, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR IS INSTALLED ON AN UNDISTURBED EARTHEN SHELF LOCATED ON ONE SIDE OF THE GRAVITY SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER PIPE JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE.

DISRUPTION OF SERVICE

THE CONTRACTOR SHALL COORDINATE ALL DISRUPTIONS OF SERVICE WITH THE OWNER AND ENGINEER. PRIOR TO ANY DISRUPTION, THE CONTRACTOR SHALL INFORM BOTH PARTIES OF HIS INTENTIONS, METHODS AND PROJECTED DURATION OF DISTURBANCE AND RECEIVE THEIR APPROVAL PRIOR TO INITIATING THE SPECIFIC WORK.

 Monarch Engineering, Inc.	
556 CARLTON DRIVE LAWRENCEBURG, KY 40342	
DESCRIPTION: GENERAL NOTES JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT	CUSTOMER: CUMBERLAND COUNTY WATER DISTRICT CUMBERLAND COUNTY, KENTUCKY
PROJECT NO. 2534	
DATE: DEC 2025	
DRAWN BY: JLM	
CHECKED BY: DSB	
CHECKED BY: DMB	
SCALE: AS NOTED	
SHEET: GN-1	
	



WATER SYSTEM UPGRADES
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT

	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342	
	DRAWN BY: JLM	DATE: DEC 2025
	CHECKED BY: JRC	SCALE: 1"=50'
CHECKED BY: DSB	PROJECT: 2534	REVISED SHEET 1



STA. 0+00 TO STA. 17+10
 INSTALL NEW 3-INCH PVC SDR-17 WATER MAIN
 ON STATE HIGHWAY RIGHT OF WAY APPROX. 8-FEET FROM
 EXISTING 8-INCH WATER LINE. APPROXIMATE DISTANCE
 FROM CENTERLINE OF PAVEMENT VARIES AS SHOWN

STA. 17+10 - END NEW 2-INCH WATER LINE.
 REMOVE EXISTING 90° BEND AND CONNECT NEW
 3-INCH WATER LINE TO EXISTING 2-INCH WATER LINE VIA
 DIRECTION CONNECTION USING 2-INCH X 2-INCH M.J. TEE,
 3-INCH X 2-INCH REDUCER, AND 3-INCH GATE VALVE

STA. 0+00
 CONNECT NEW 2-INCH WATER LINE TO
 EXISTING 3-INCH PVC WATER LINE
 VIA TYPE II CONNECTION

STA 0+00 TO STA 14+25
 INSTALL 2-INCH PVC SDR-17 WATER LINE
 ON KY HIGHWAY 61 RIGHT OF WAY.
 APPROXIMATE DISTANCE FROM CENTERLINE
 OF PAVEMENT VARIES AS SHOWN.

INSTALL 20 LF BORE & CASE
 FOR 2-INCH WATER LINE.
 ENCASUREMENT PIPE SHALL BE 8-INCH Ø STEEL.

EXISTING 2-INCH GATE VALVE
 (TO BE NORMALLY CLOSED)

EXISTING 2-INCH
 WATER LINE

EXISTING 8-INCH
 WATER LINE

EXISTING 8-INCH
 WATER LINE

C & C
 PROPERTY
 INVESTMENTS
 LLC

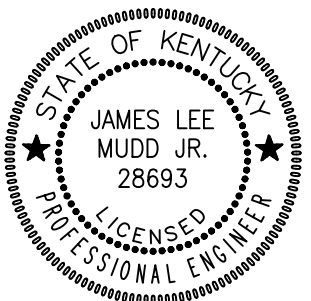
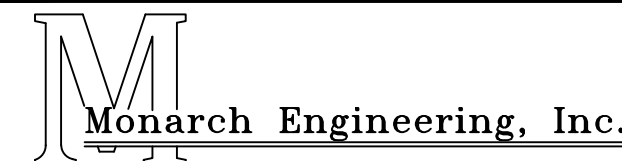
BILL J DINGUS

KENTUCKY HIGHWAY 61

MELTON ROAD

MATCHLINE
 SHEET 1

MATCHLINE
 SHEET 3

WATER SYSTEM UPGRADES CUMBERLAND COUNTY WATER DISTRICT CUMBERLAND COUNTY, KENTUCKY			
JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT			
		 556 CARLTON DRIVE LAWRENCEBURG, KY 40342	
DRAWN BY: JLM CHECKED BY: JRC CHECKED BY: DSB	DATE: DEC 2025 SCALE: 1"=50' PROJECT: 2534	REVISED	SHEET 2



RELOCATE EXISTING METER SETTING TO NEW LOCATION NEAR KY HIGHWAY 61. CONNECT NEW 1-INCH SERVICE TUBING CUSTOMERS EXISTING SERVICE LINE.

EXISTING 1-INCH PE SERVICE LINE (TO BE ABANDONED)

CONTRACTOR SHALL LOCATE TAP FOR EXISTING SERVICE LINE ALONG KY HIGHWAY 61 NEAR RIVER BREEZE DRIVE AND CLOSE CORP STOP.

INSTALL NEW 1-INCH PE SERVICE TUBING FROM RELOCATED METER SETTING AND CONNECT TO CUSTOMERS SERVICE LINE.

MICHAEL MURPHY

MARK DYKES

DEBORAH S IRBY

RECONNECT EXISTING METER SETTING TO NEW 2-INCH WATER MAIN WITH 1-INCH PE SERVICE TUBING.

RELOCATED METER SETTING

STA. 14+25
END NEW 2-INCH WATER LINE.
INSTALL BLOWOFF ASSEMBLY.

STA 0+00 TO STA 14+25
INSTALL 2-INCH PVC SDR-17 WATER LINE ON KY HIGHWAY 61 RIGHT OF WAY. APPROXIMATE DISTANCE FROM CENTERLINE OF PAVEMENT VARIES AS SHOWN.

EXISTING 1-INCH PE SERVICE LINE (TO BE ABANDONED)

INSTALL 15 LF OF DRIVEWAY BORE & CASE FOR 2-INCH WATER LINE. ENCASUREMENT PIPE SHALL BE 8-INCH Ø PVC.

CONTRACTOR SHALL LOCATE TAP FOR EXISTING SERVICE LINE AND CLOSE CORP STOP.

EXISTING 8-INCH WATER LINE

EXISTING METER SETTING TO REMAIN (TYP.)

MARK DYKES

WATER SYSTEM UPGRADES
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT

			556 CARLTON DRIVE LAWRENCEBURG, KY 40342	
	DRAWN BY: JLM	DATE: DEC 2025	REVISED	SHEET
	CHECKED BY: JRC	SCALE: 1"=50'		3
CHECKED BY: DSB	PROJECT: 2534			



INSTALL PROPOSED JOE SCOTT RIDGE BOOSTER PUMP STATION (SEE DETAILS, BASE BID - SHEETS BPS-1 - BPS-3) (SEE DETAILS, ALTERNATE BID NO. 1 - SHEETS BPS-4 - BPS-6)

STA. 1+20 TO STA. 6+00
INSTALL NEW 8-INCH D.I. CL350 WATER MAIN ON STATE HIGHWAY RIGHT OF WAY. APPROX. DISTANCE FROM CENTERLINE OF PAVEMENT VARIES AS SHOWN

REPLACE EXISTING METER SETTING WITH NEW TANDEM METER SETTING W/ PRV.

STA. 7+80 TO STA. 11+00
INSTALL NEW 8-INCH D.I. CL350 WATER MAIN ON EXISTING PRIVATE EASEMENT

STA. 6+00 TO STA. 7+80
INSTALL NEW 8-INCH D.I. CL350 WATER MAIN ON COUNTY ROAD RIGHT OF WAY.

INSTALL 20 LF OF DRIVEWAY BORE & CASE FOR 8-INCH WATER LINE. ENCASUREMENT PIPE SHALL BE 14-INCH Ø PVC.

RECONNECT EXISTING SERVICE LINE TO NEW 8-INCH WATER LINE WITH 1-INCH PE SERVICE TUBING (TYP.)

INSTALL 80 LF. OF BORE & CASE FOR 8-INCH WATER LINE. ENCASUREMENT PIPE SHALL BE 14-INCH Ø STEEL

INSTALL 120 LF. OF 8-INCH INTEGRAL BELL RESTRAINED JOINT (YELOMINE) PVC SDR-17 WATER MAIN THROUGH CASING PIPE

EXISTING 8-INCH PVC WATER LINE (TO BE ABANDONED)

EXISTING 8-INCH WATER LINE

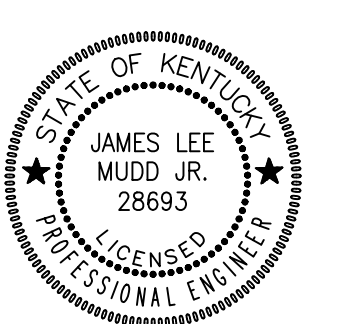
STA. 0+00
CONNECT NEW 8-INCH WATER LINE TO EXISTING 8-INCH WATER LINE VIA TYPE I CONNECTION

EXISTING JOE SCOTT RIDGE BOOSTER PUMP STATION (DEMOLISH & REMOVE)

EXISTING 8-INCH PVC WATER LINE (TO BE ABANDONED)

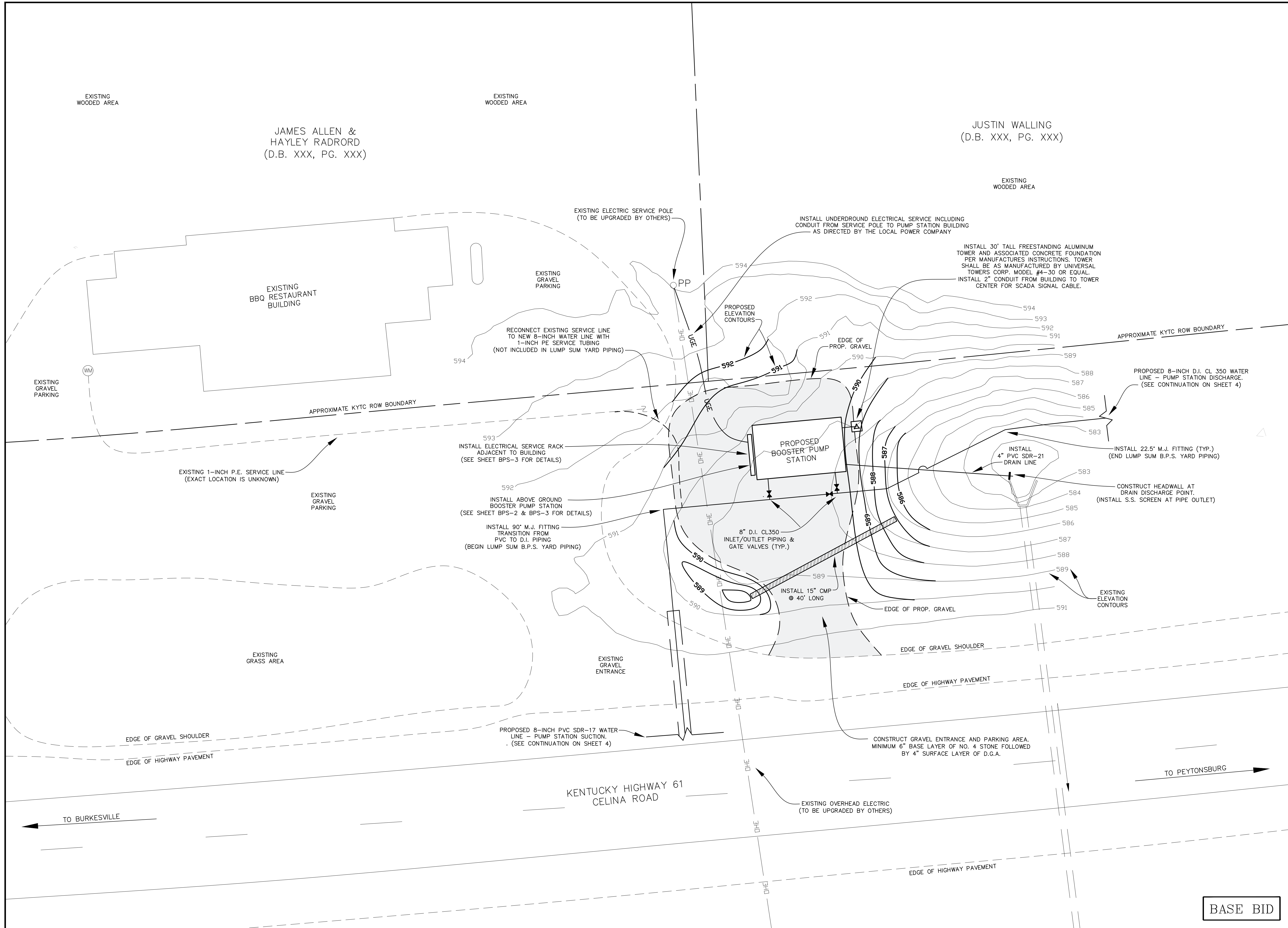
WATER SYSTEM UPGRADES
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT



Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DRAWN BY: JLM	DATE: DEC 2025	REVISED	SHEET
CHECKED BY: JRC	SCALE: 1"=50'		4
CHECKED BY: DSB	PROJECT: 2534		



EXISTING WOODED AREA

JAMES ALLEN & HAYLEY RADRORD
(D.B. XXX, PG. XXX)

JUSTIN WALLING
(D.B. XXX, PG. XXX)

EXISTING WOODED AREA

EXISTING ELECTRIC SERVICE POLE
(TO BE UPGRADED BY OTHERS)

INSTALL UNDERGROUND ELECTRICAL SERVICE INCLUDING
CONDUIT FROM SERVICE POLE TO PUMP STATION BUILDING
AS DIRECTED BY THE LOCAL POWER COMPANY

INSTALL 30' TALL FREESTANDING ALUMINUM
TOWER AND ASSOCIATED CONCRETE FOUNDATION
PER MANUFACTURES INSTRUCTIONS. TOWER
SHALL BE AS MANUFACTURED BY UNIVERSAL
TOWERS CORP. MODEL #4-30 OR EQUAL.
INSTALL 2" CONDUIT FROM BUILDING TO TOWER
CENTER FOR SCADA SIGNAL CABLE.

EXISTING RESTAURANT
BUILDING

EXISTING GRAVEL
PARKING

RECONNECT EXISTING SERVICE LINE
TO NEW 8-INCH WATER LINE WITH
1-INCH PE SERVICE TUBING
(NOT INCLUDED IN LUMP SUM YARD PIPING)

PROPOSED ELEVATION
CONTOURS

EDGE OF PROP. GRAVEL

APPROXIMATE KYTC ROW BOUNDARY

PROPOSED 8-INCH D.I. CL 350 WATER
LINE - PUMP STATION DISCHARGE.
(SEE CONTINUATION ON SHEET 4)

EXISTING GRAVEL
PARKING

APPROXIMATE KYTC ROW BOUNDARY

EXISTING 1-INCH P.E. SERVICE LINE
(EXACT LOCATION IS UNKNOWN)

INSTALL ELECTRICAL SERVICE RACK
ADJACENT TO BUILDING
(SEE SHEET BPS-3 FOR DETAILS)

PROPOSED BOOSTER PUMP
STATION

INSTALL 4" PVC SDR-21
DRAIN LINE

INSTALL 22.5" M.J. FITTING (TYP.)
(END LUMP SUM B.P.S. YARD PIPING)

EXISTING GRAVEL
PARKING

INSTALL ABOVE GROUND
BOOSTER PUMP STATION
(SEE SHEET BPS-2 & BPS-3 FOR DETAILS)

INSTALL 90" M.J. FITTING
TRANSITION FROM
PVC TO D.I. PIPING
(BEGIN LUMP SUM B.P.S. YARD PIPING)

8" D.I. CL350
INLET/OUTLET PIPING &
GATE VALVES (TYP.)

INSTALL 15" CMP
@ 40' LONG

CONSTRUCT HEADWALL AT
DRAIN DISCHARGE POINT.
(INSTALL S.S. SCREEN AT PIPE OUTLET)

EXISTING GRASS AREA

EXISTING GRAVEL
ENTRANCE

EDGE OF PROP. GRAVEL

EDGE OF GRAVEL SHOULDER

EDGE OF HIGHWAY PAVEMENT

EXISTING ELEVATION
CONTOURS

EDGE OF GRAVEL SHOULDER

EDGE OF HIGHWAY PAVEMENT

PROPOSED 8-INCH PVC SDR-17 WATER
LINE - PUMP STATION SUCTION.
(SEE CONTINUATION ON SHEET 4)

CONSTRUCT GRAVEL ENTRANCE AND PARKING AREA.
MINIMUM 6" BASE LAYER OF NO. 4 STONE FOLLOWED
BY 4" SURFACE LAYER OF D.G.A.

TO PEYTONSBURG

KENTUCKY HIGHWAY 61
CELINA ROAD

EXISTING OVERHEAD ELECTRIC
(TO BE UPGRADED BY OTHERS)

TO BURKESVILLE

EDGE OF HIGHWAY PAVEMENT

BASE BID

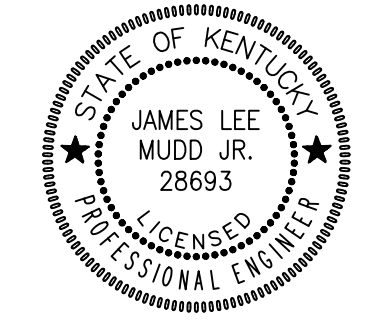
Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

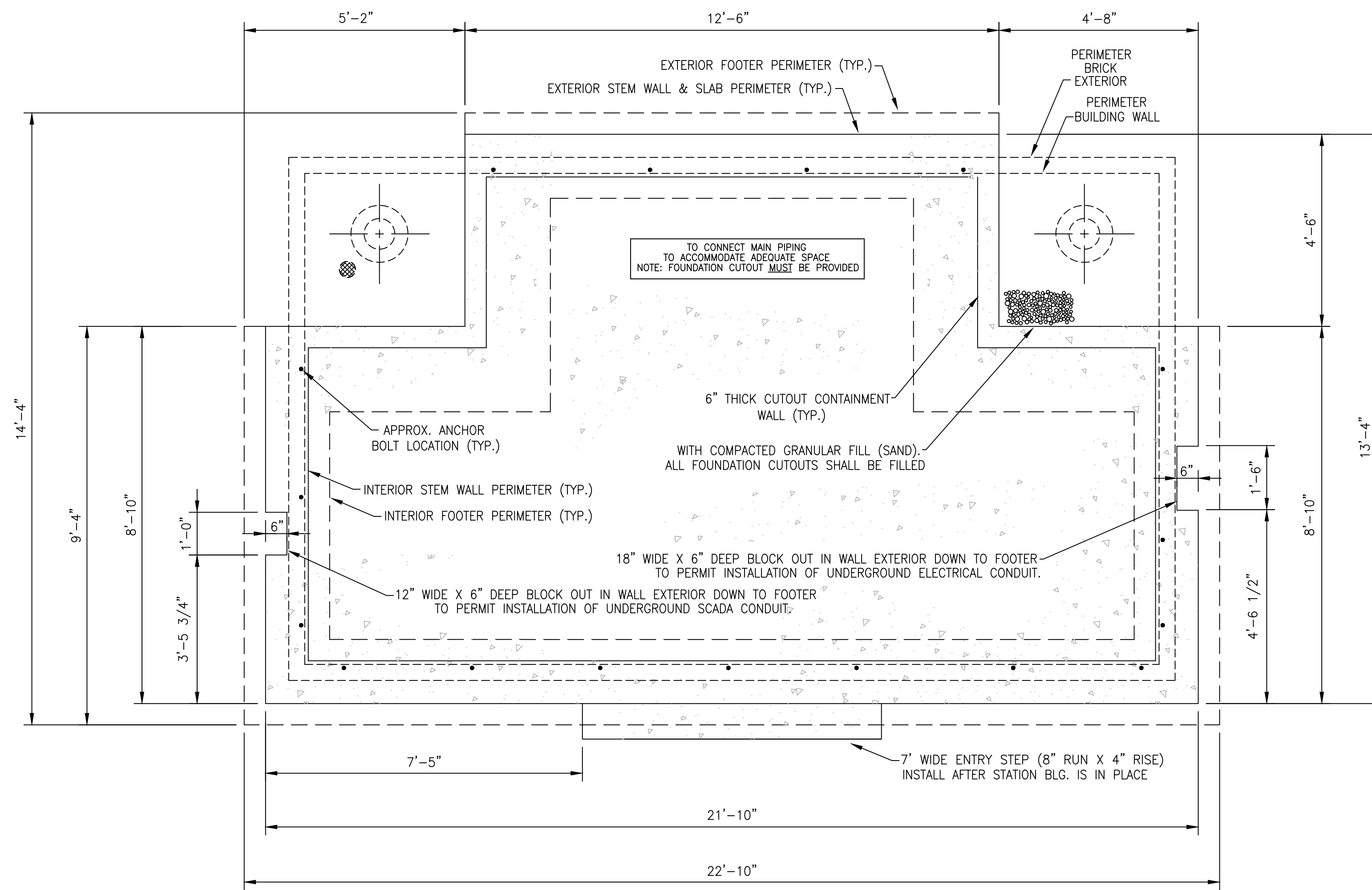
DESCRIPTION: PROPOSED SITE PLAN
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT

CUSTOMER:
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

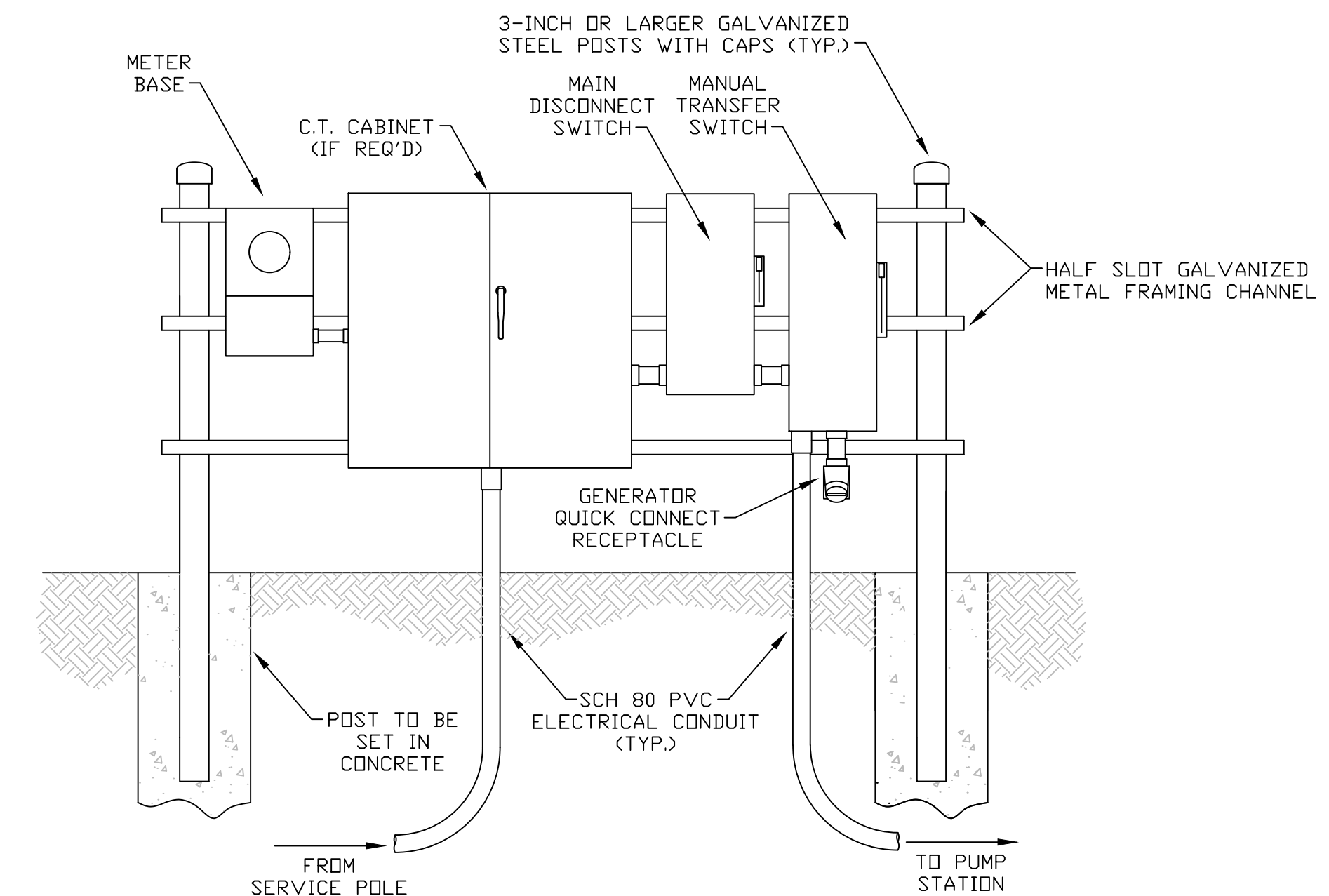
PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: 1" = 10'

SHEET:
BPS-1

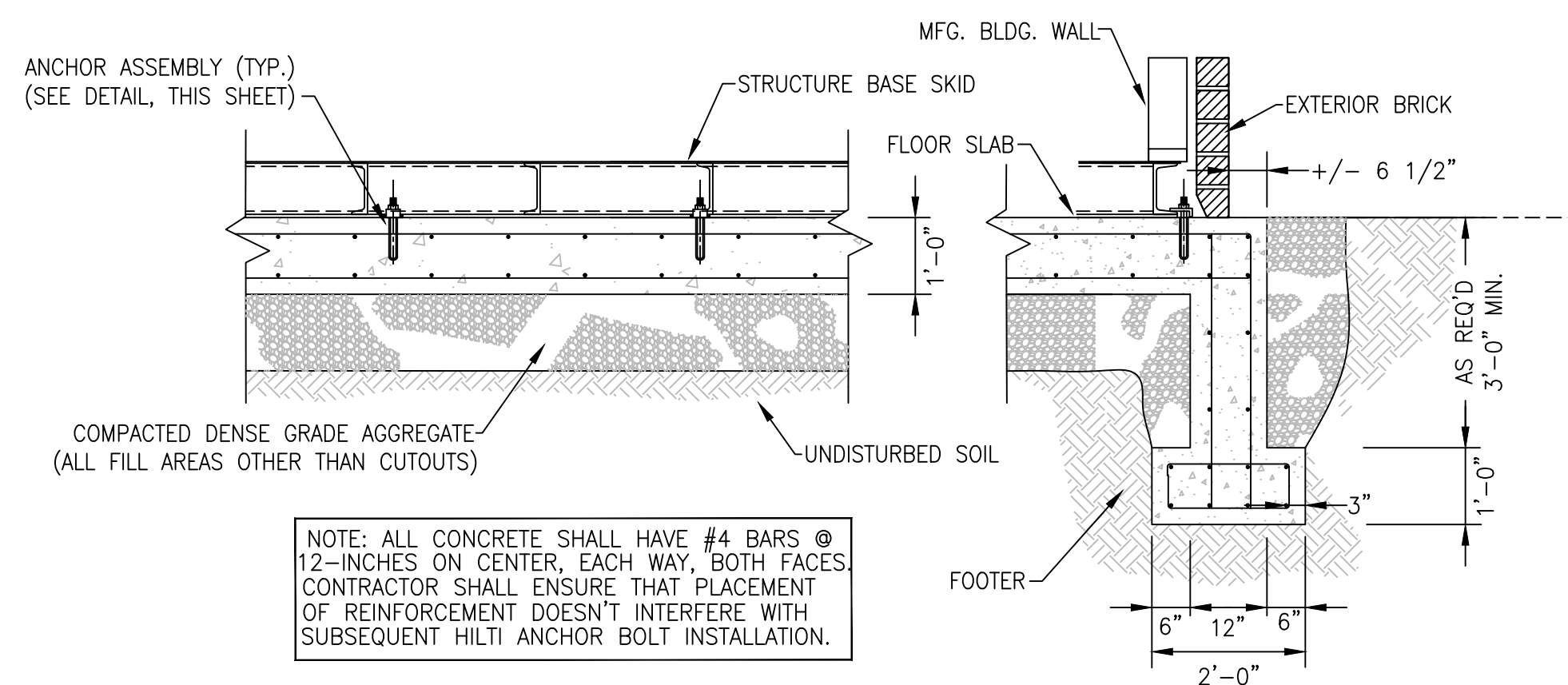




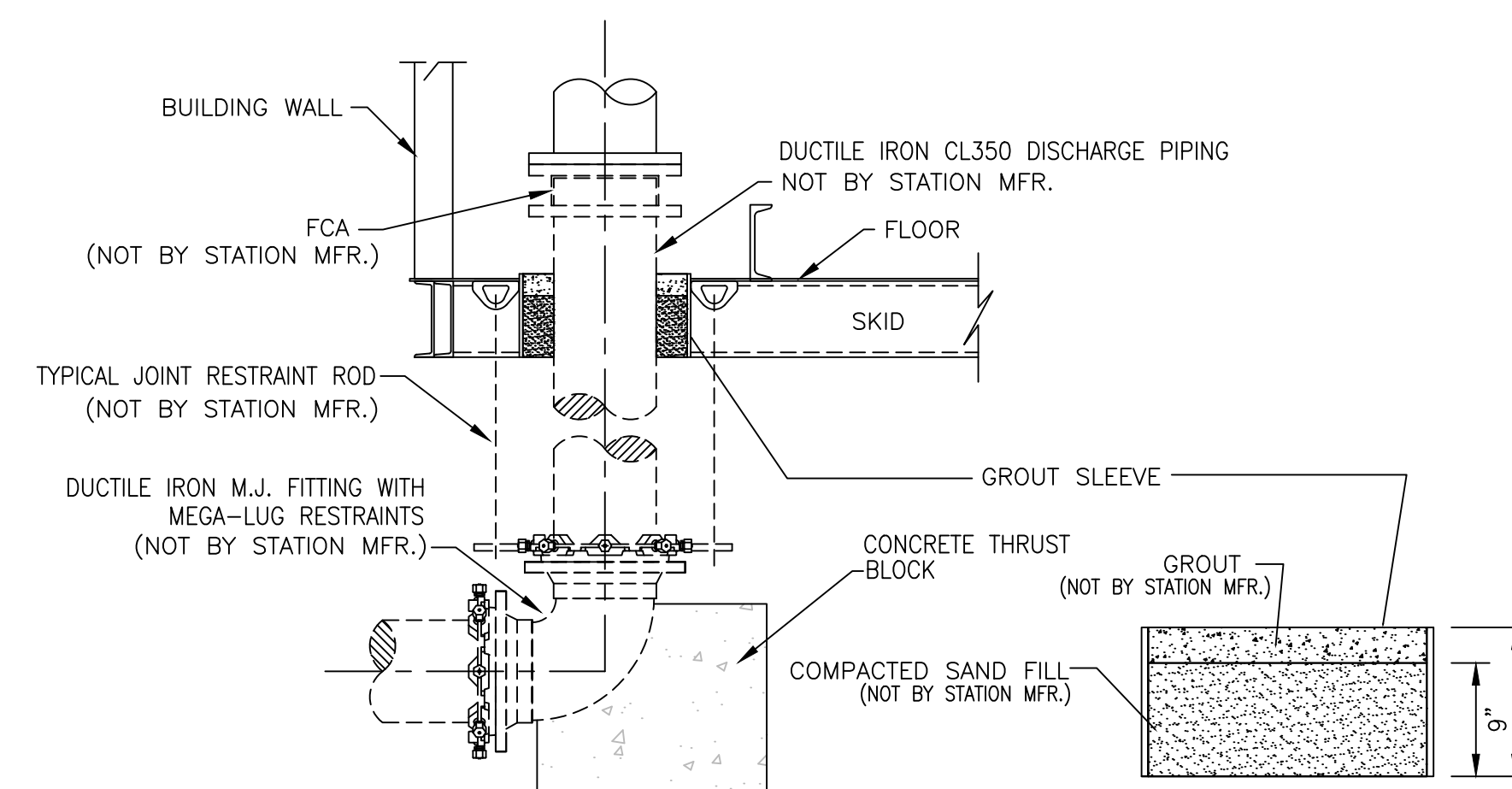
FOUNDATION LAYOUT
SCALE: 1/2" = 1'-0"



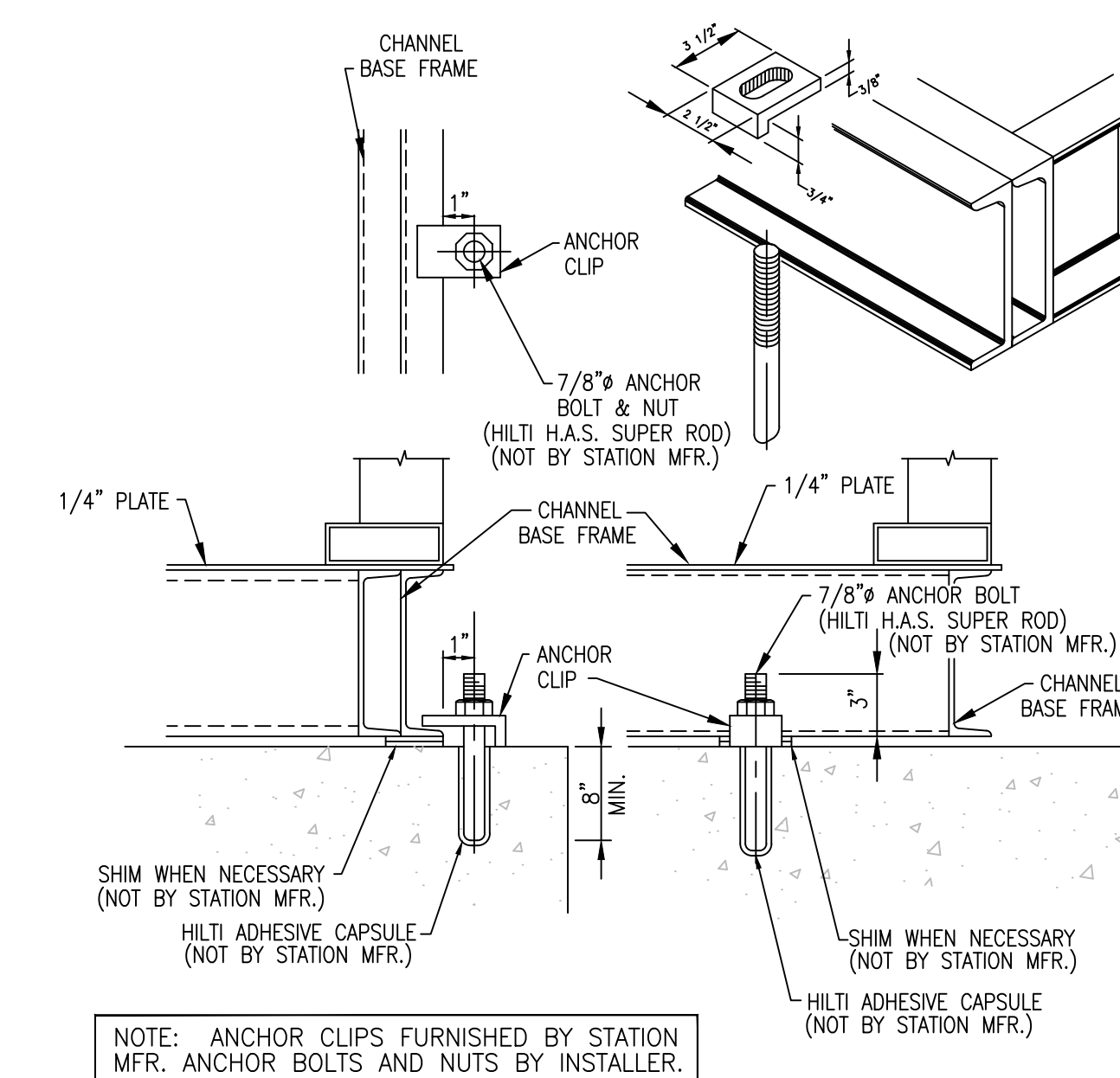
ELECTRICAL SERVICE RACK
NOT TO SCALE



TYPICAL SECTION FOUNDATION & REINFORCING DETAIL
NOT TO SCALE



TYPICAL PIPING CONNECTION DETAIL
NOT TO SCALE



TYPICAL ANCHOR DETAIL
NOT TO SCALE

Monarch Engineering, Inc.
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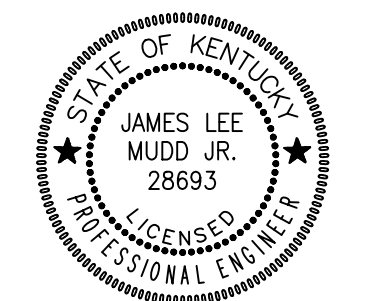
DESCRIPTION: BOOSTER PUMP DETAILS
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT

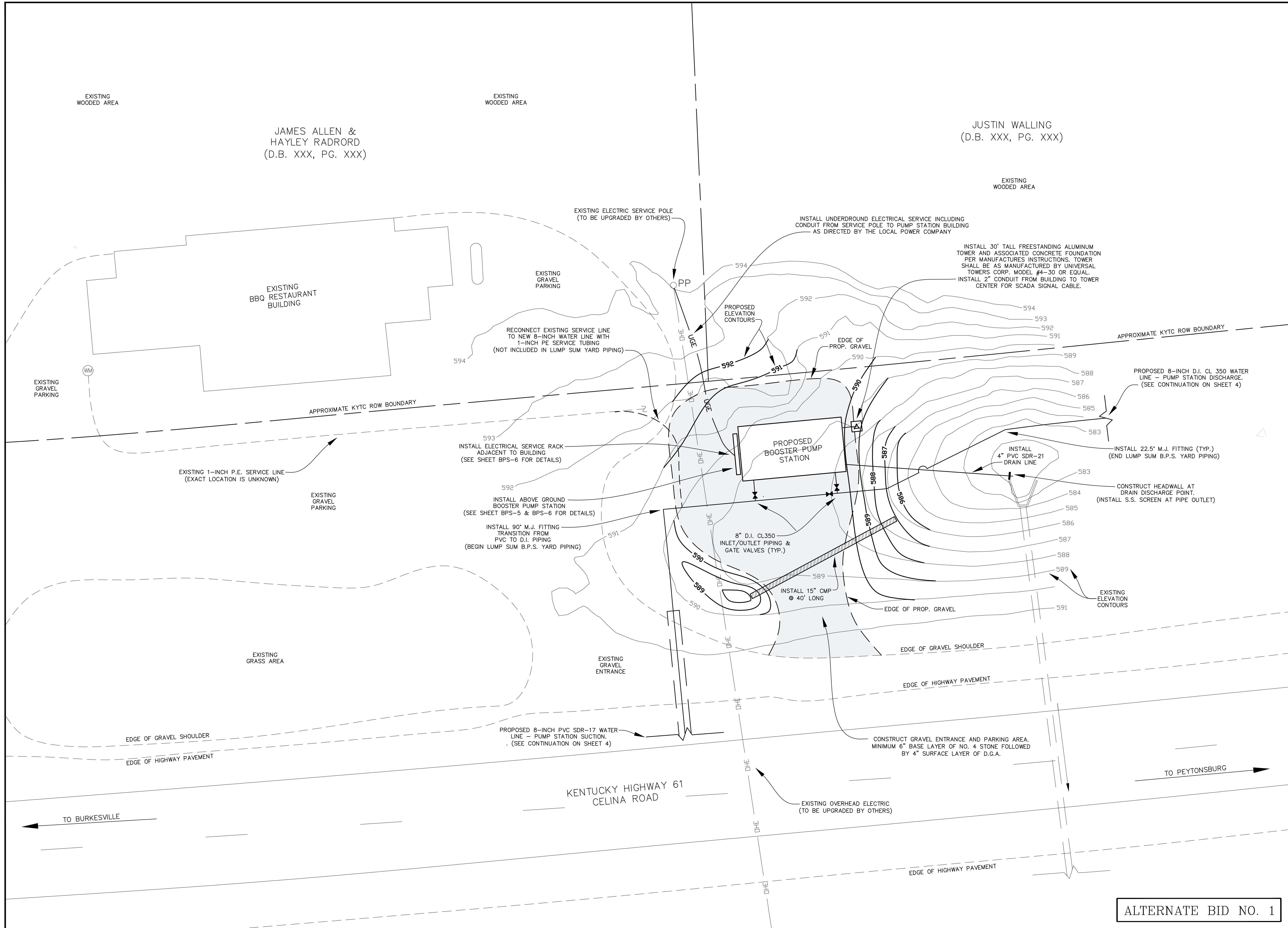
CUSTOMER:
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: AS NOTED

SHEET:
BPS-3

BASE BID





JUSTIN WALLING
(D.B. XXX, PG. XXX)

JAMES ALLEN &
HAYLEY RADRORD
(D.B. XXX, PG. XXX)

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LAWRENCEBURG, KY 40342

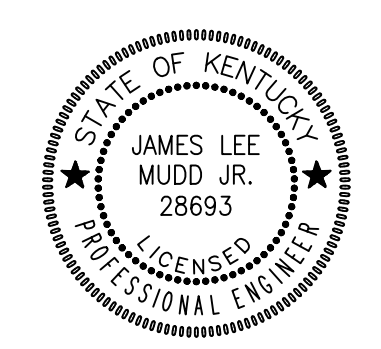
DESCRIPTION: PROPOSED SITE PLAN
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT

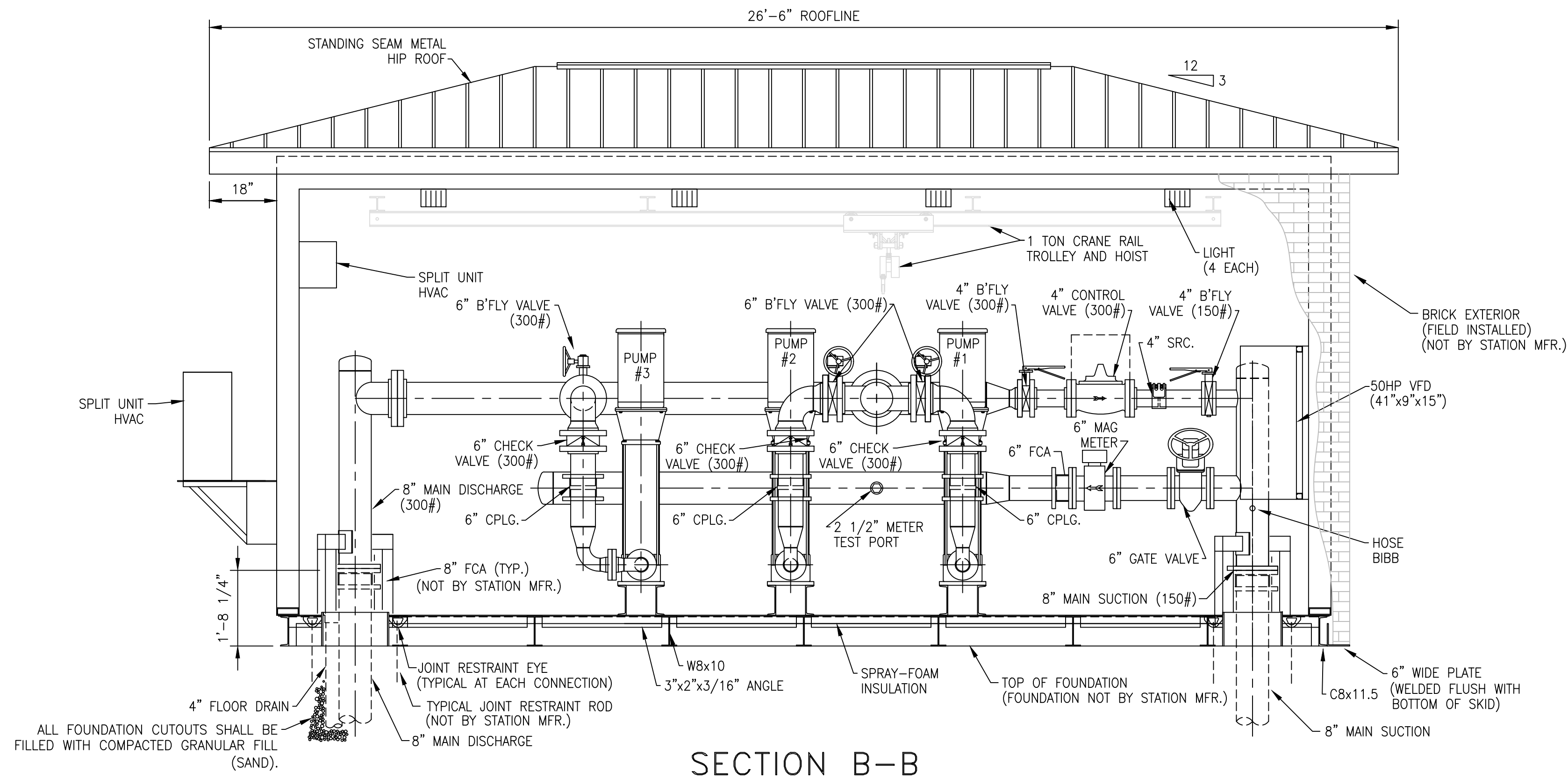
CUSTOMER:
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: 1" = 10'

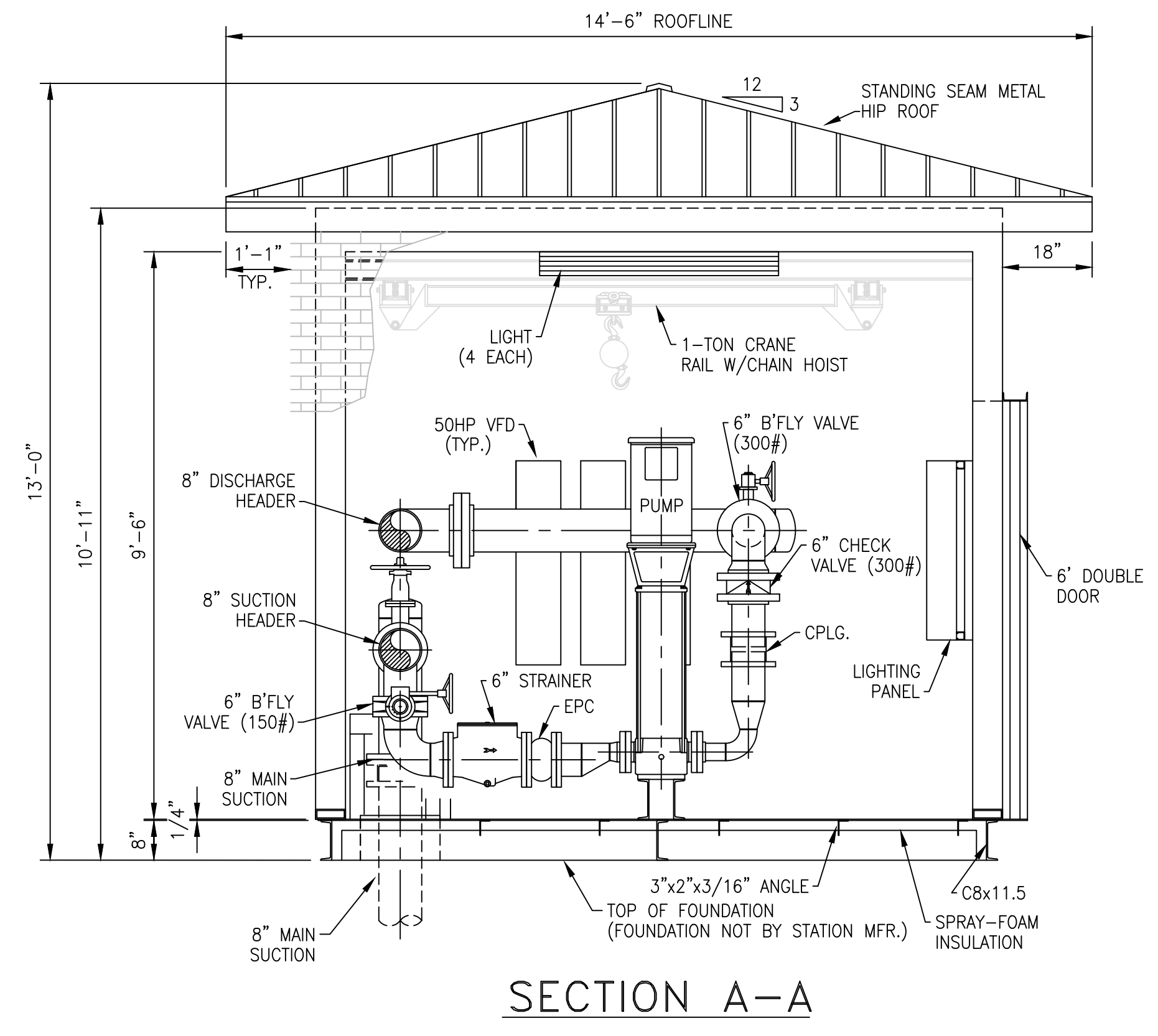
SHEET:
BPS-4

ALTERNATE BID NO. 1

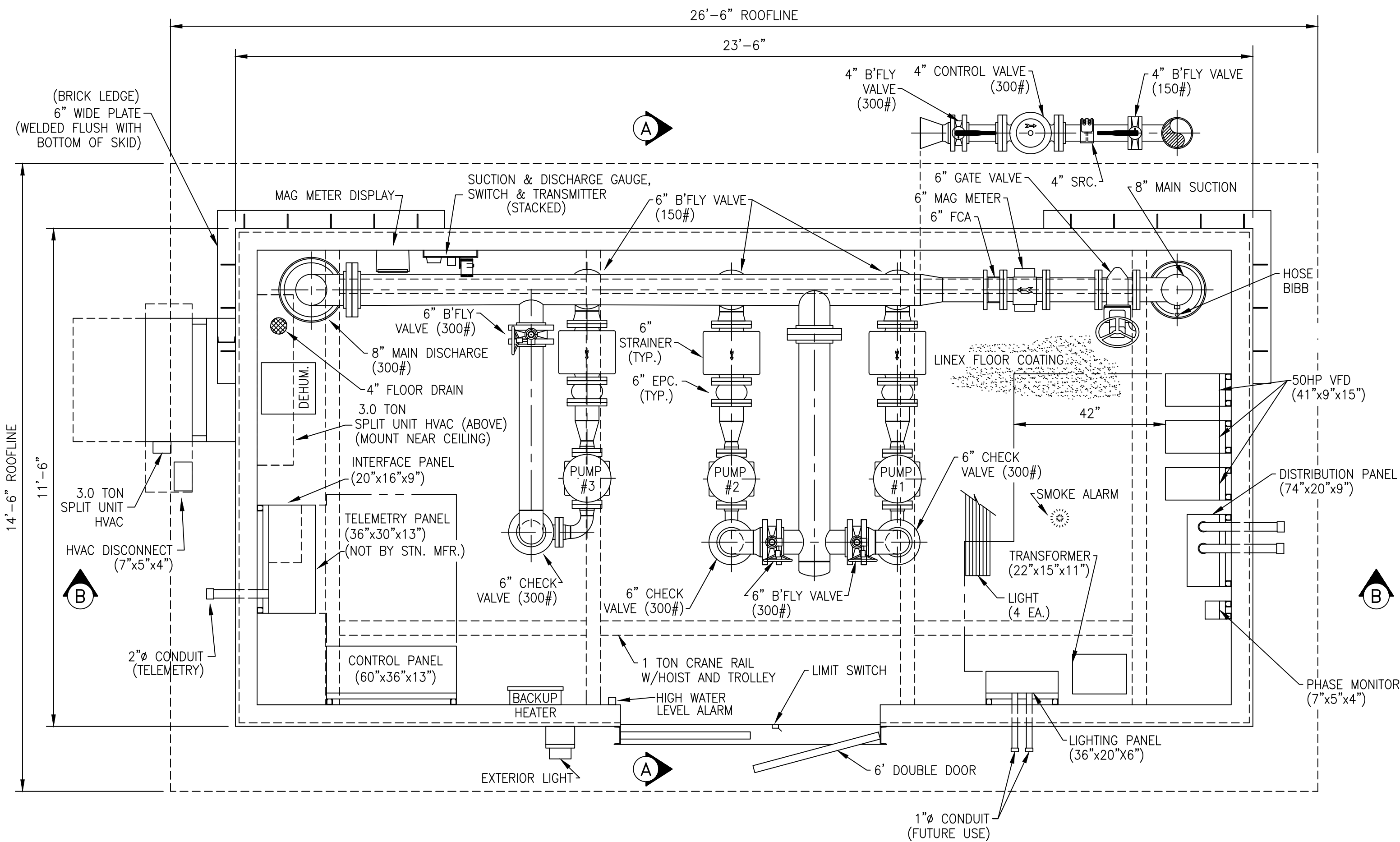




SECTION B-B



SECTION A-A



PLAN

DESIGN CRITERIA:

Controls TELEMETRY (BY OTHERS) / LOCAL PRESSURE
 Power Service: 460 Volts, 3 Phase, 60 Cycle

PUMP DATA

Type: VERTICAL, MULTI-STAGE, CENTRIFUGAL
 Pump 1, 2 & 3
 Capacity: 250 G.P.M. AT 575 FEET T.D.H.
 Size: 3" x 3"
 Motor: 50 H.P., 3550 R.P.M.

- * THIS DESIGN IS BASED ON A MAGNETIC FLOW METER REQUIRING 5 UPSTREAM AND ZERO DOWNSTREAM STRAIGHT PIPE DIAMETER LENGTHS FOR MAINTAINING SPECIFIED ACCURACY LIMITS. USE OF ANY FLOW METER WITH REQUIREMENTS EXCEEDING THESE LENGTHS IS UNACCEPTABLE AND WILL NOT BE PERMITTED.
- * EXCEPT FOR PIPE END SUPPORTS, WHICH ARE SHOWN, VERTICAL AND ANGLE PIPE BRACES ARE NOT SHOWN FOR DRAWING CLARITY
- * STATION MANUFACTURER SHALL ENSURE THAT CRANE RAIL HOIST ALLOWS CLEARANCE TO REMOVE PUMP MOTORS WHILE LEAVING PUMP IN PLACE

GENERAL NOTES:

ALL STATION PIPING SHALL BE STANDARD WIEGT (.375" WALL) STEEL PIPE
 MAIN SUCTION & DISCHARGE SHALL BE ANSI STNADARD B16.5, CLASS 150 FLANGE
 ALL PIPING AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED AND BRACED
 PLATE AND STRUCTURAL STEEL SHALL BE ASTM A-36
 STRUCTURAL TUBING SHALL BE A500, GRADE B
 FCA - FLANGED COUPLING ADAPTER
 EPC - ELASTOMER PIPE CONNECTOR
 SRC - SELF RESTRAINED COUPLING

CONTRACTOR NOTES:

DEHUMIDIFIER MUST BE POWERED UP AND TURNED ON IMMEDIATELY AFTER THIS STATION IS SET IN PLACE.
 SHIMS MAY BE REQUIRED AROUND PERIMETER OF THE STATION TO ENSURE PROPER LEVEL.
 THIS IS CRITICAL FOR PROPER DOOR OPERATION.
 PLEASE NOTE ORIENTATION OF THE INLET AND OUTLET PIPE AND ELECTRICAL/TELEMETRY LOCATIONS IN REFERENCE TO THE JOBSITE LAYOUT.
 THE STATION IS NOT DESIGNED TO ACCEPT PIPELINE FORCES THRUST BLOCKING MUST BE PROVIDED EXTERNAL TO THE STATION. THRUST BLOCKING TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
 CONNECTION BETWEEN STATION PIPING AND MAIN PIPING MUST BE RESTRAINED.

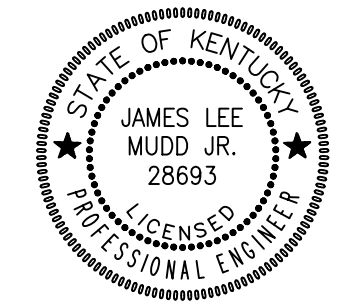
ALTERNATE BID NO. 1

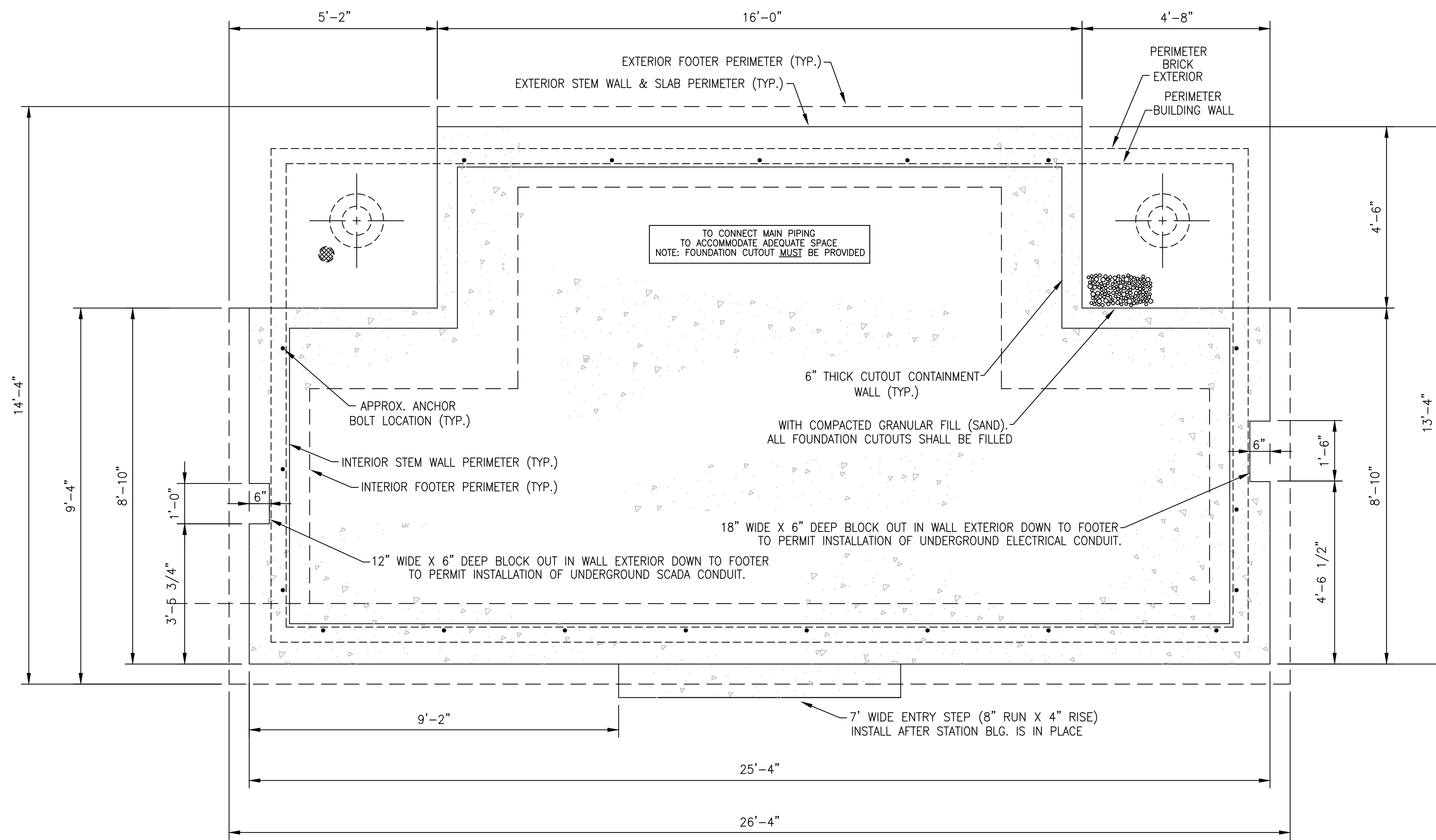
Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

DESCRIPTION: **BOOSTER PUMP DETAILS**
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT
 CUSTOMER: **CUMBERLAND COUNTY WATER DISTRICT**
CUMBERLAND COUNTY, KENTUCKY

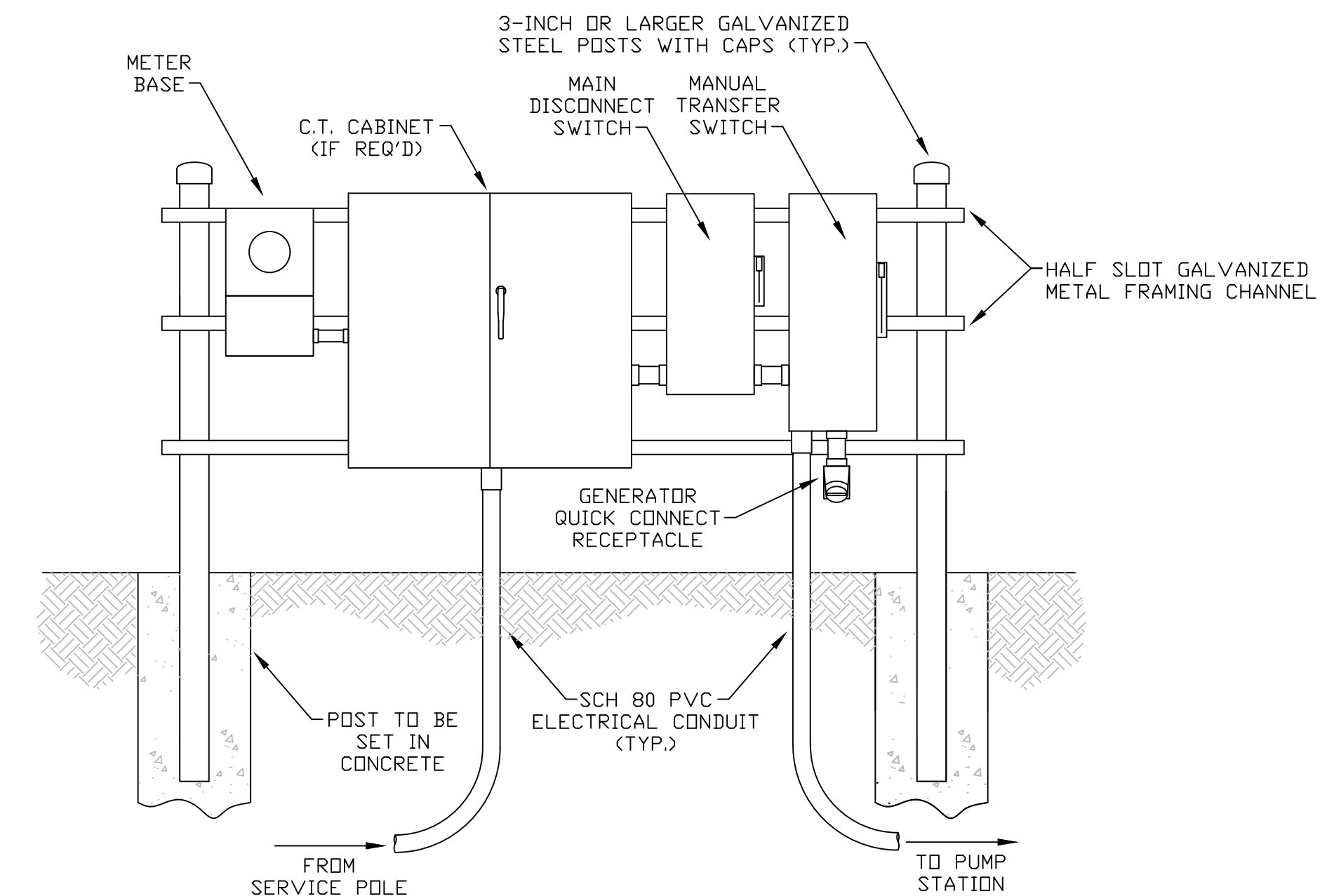
PROJECT NO. 2534
 DATE: DEC 2025
 DRAWN BY: JLM
 CHECKED BY: DSB
 CHECKED BY: DMB
 SCALE: 1/2" = 1'-0"

SHEET:
BPS-5

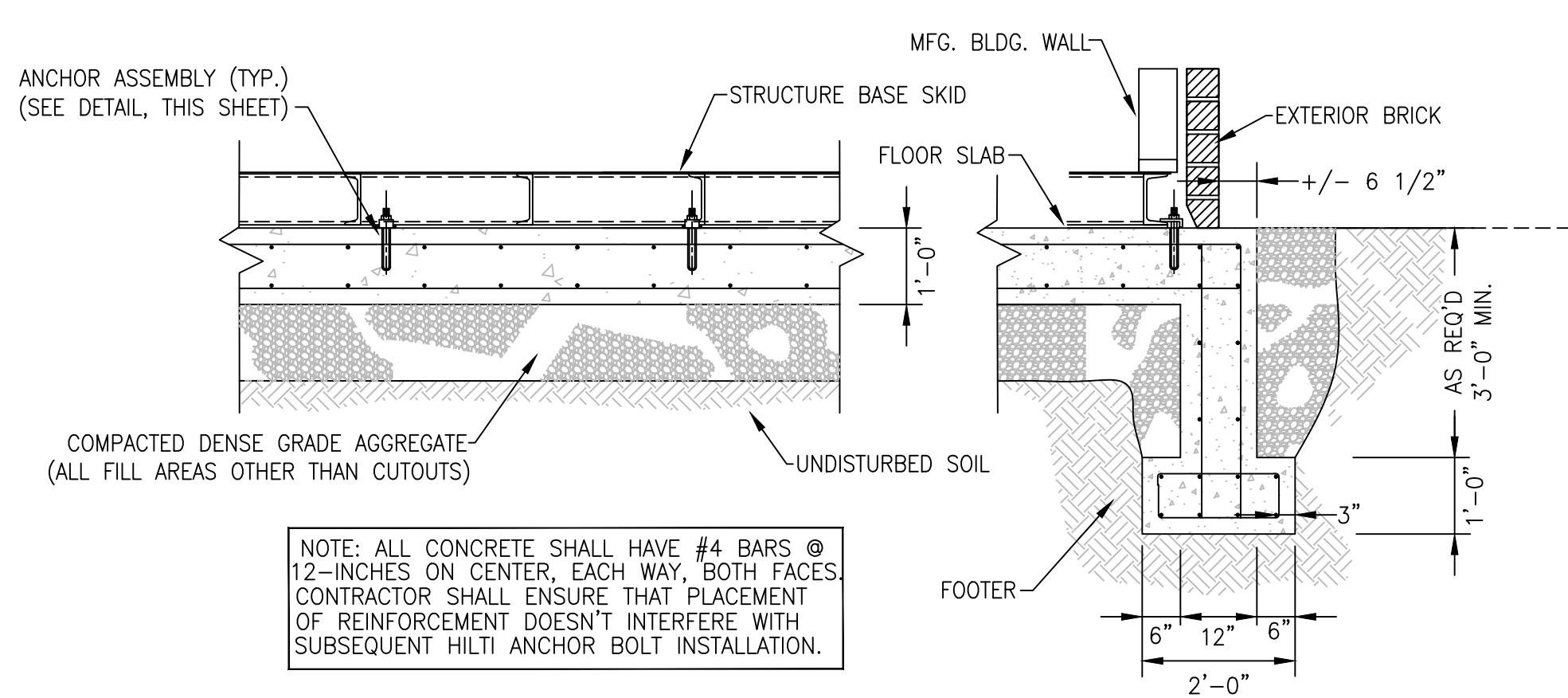




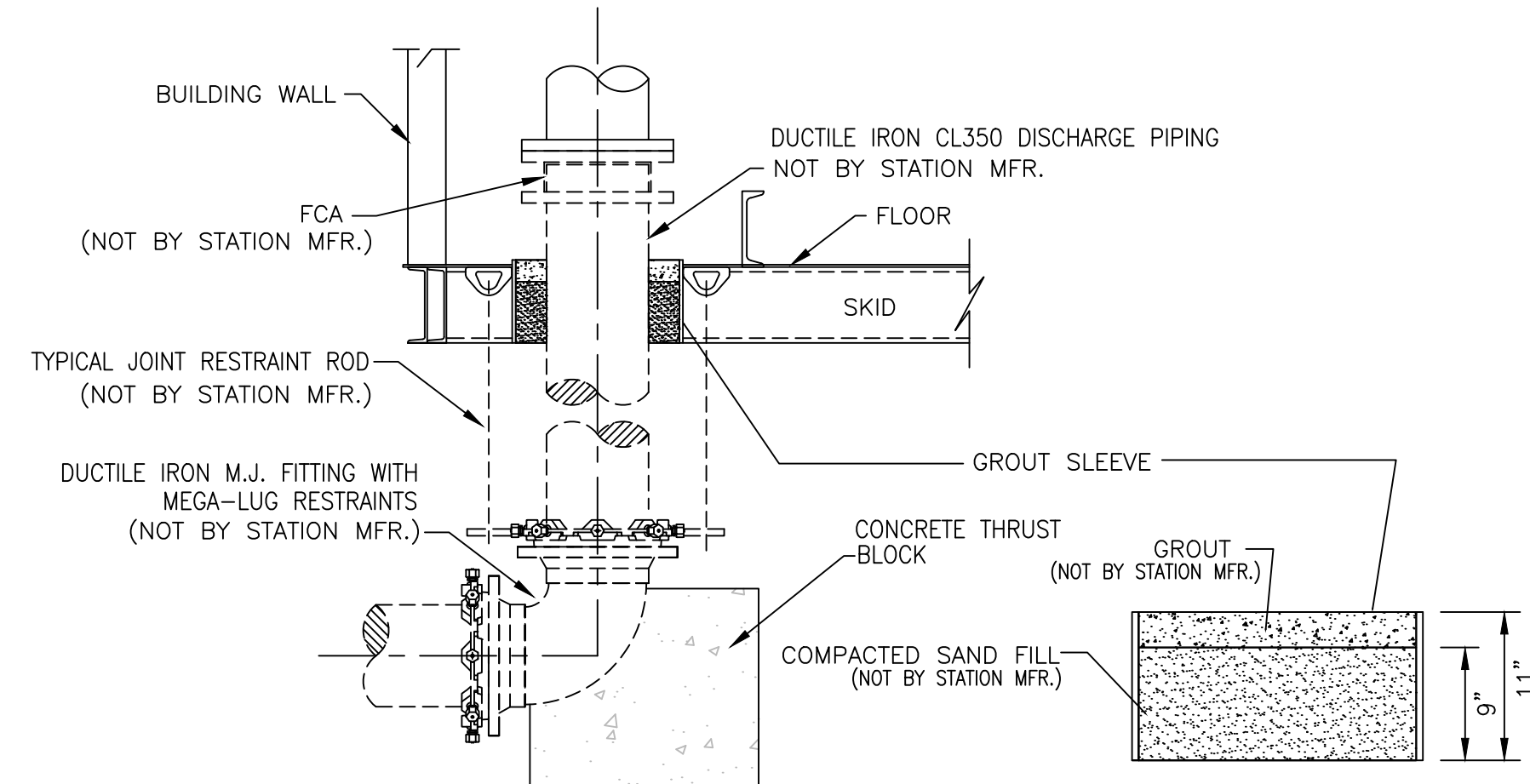
FOUNDATION LAYOUT
SCALE: 1/2" = 1'-0"



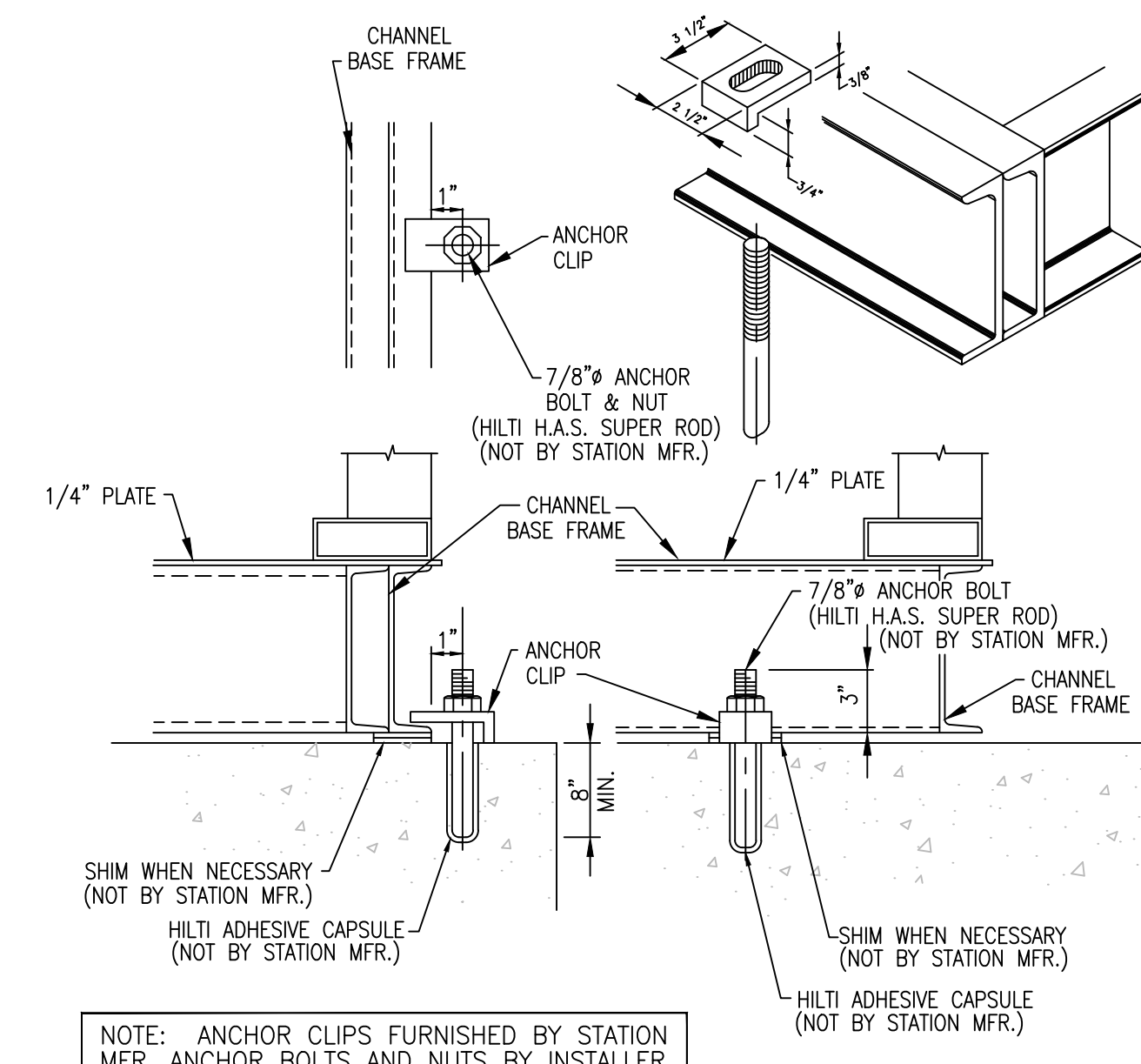
ELECTRICAL SERVICE RACK
NOT TO SCALE



TYPICAL SECTION FOUNDATION & REINFORCING DETAIL
NOT TO SCALE



TYPICAL PIPING CONNECTION DETAIL
NOT TO SCALE



TYPICAL ANCHOR DETAIL
NOT TO SCALE

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LAWRENCEBURG, KY 40342

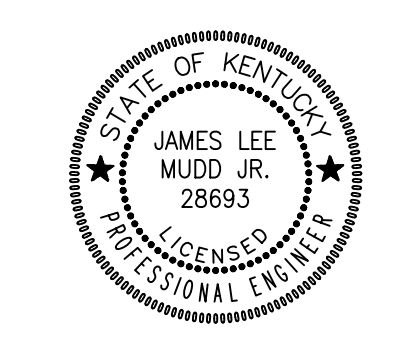
DESCRIPTION: BOOSTER PUMP DETAILS
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT

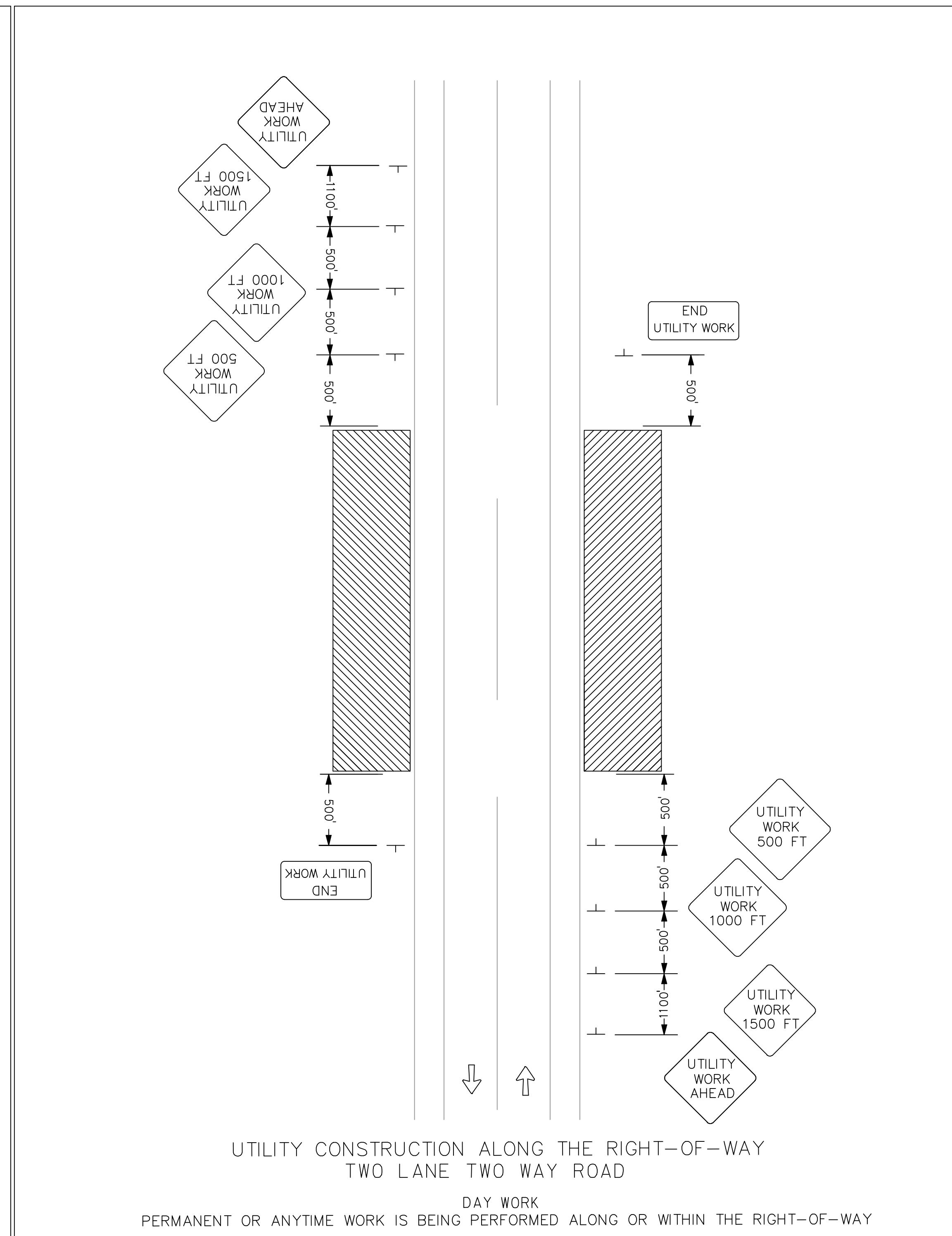
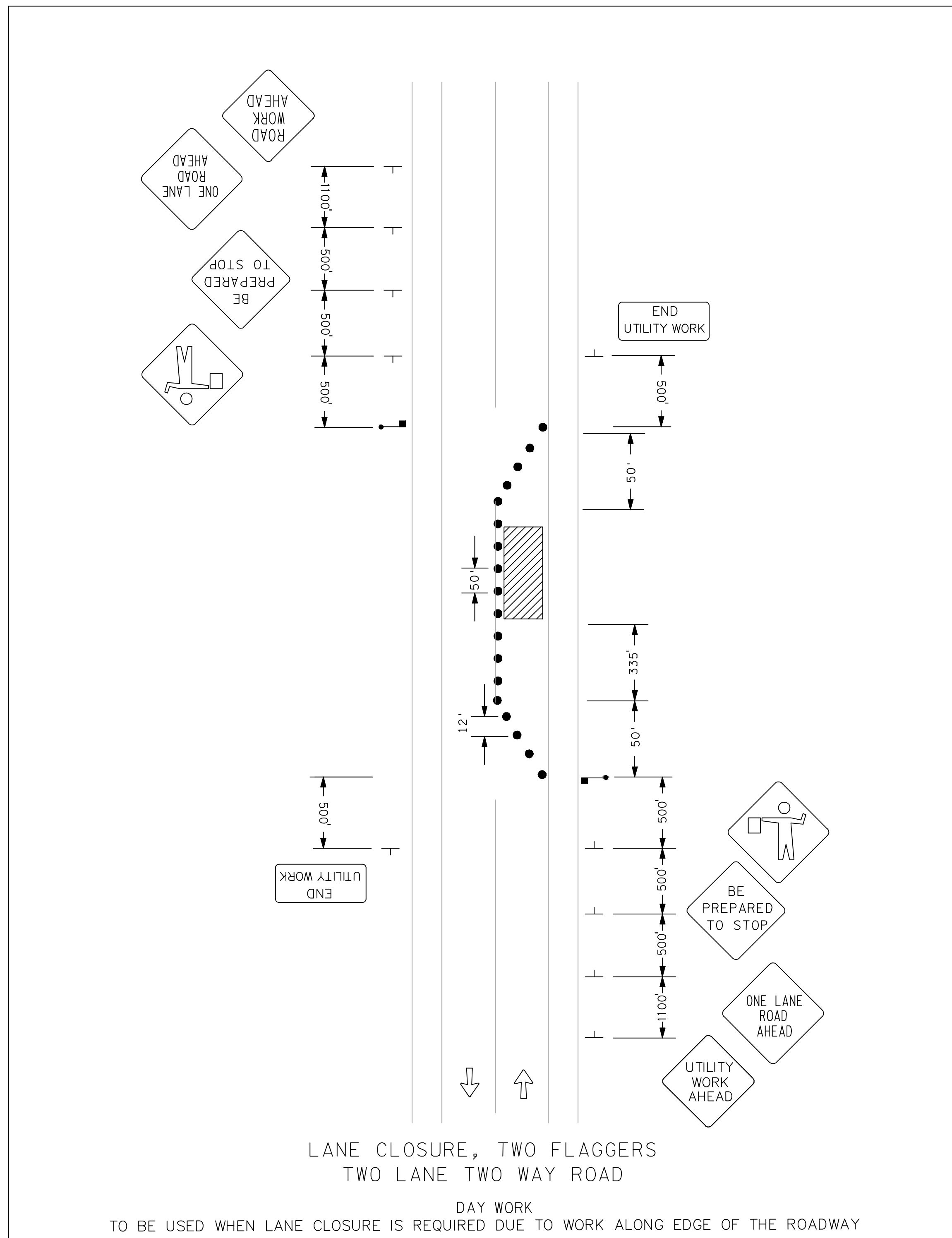
CUSTOMER:
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB

CHECKED BY: DMB
SCALE: AS NOTED
SHEET:
BPS-6

ALTERNATE BID NO. 1





NOTES & GUIDELINES

GENERAL INFORMATION:

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
3. ALL DISTANCES ARE APPROXIMATE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH KYDOT STANDARDS

SIGNING:

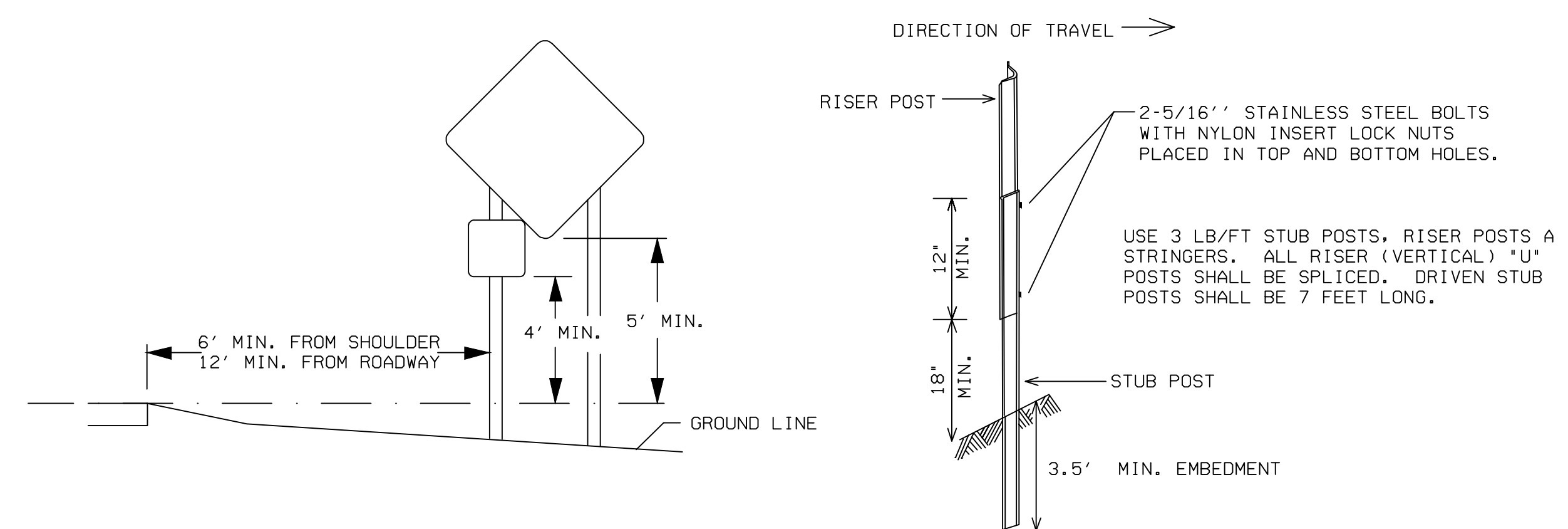
1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTANT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
2. WHEN SIGNS ARE INSTALLED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS DETAILED BY THE KYDOT. IF THIS IS NOT POSSIBLE THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AS APPROVED BY THE ENGINEER. WHEN THE SIGNS ARE REMOVED THE SIGN POSTS SHALL ALSO BE REMOVED AS SOON AS POSSIBLE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
4. ALL ORANGE WARNING AND ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE KYDOT APPROVED PRODUCT LIST FOR "SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS".
5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE INSTALLED AS NEEDED, OR PROVIDE TEMPORARY SIGNING AT THEIR EXPENSE UNTIL THE FINAL SIGNING IS INSTALLED.

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	AREA CLOSED TO TRAFFIC / WORK AREA
	TRAFFIC CONTROL SIGN
	DRUM-LIKE CHANNELIZER =
	FLAGGER LOCATION

SIGN	COLOR	SIZE
	BLACK ON ORANGE	36" x 36"
	BLACK ON ORANGE	36" x 36"
	BLACK ON ORANGE	36" x 36"
	BLACK ON ORANGE	36" x 36"
	BLACK ON ORANGE	36" x 36"
	BLACK ON ORANGE	36" x 18"

SIGN CONSTRUCTION DETAILS



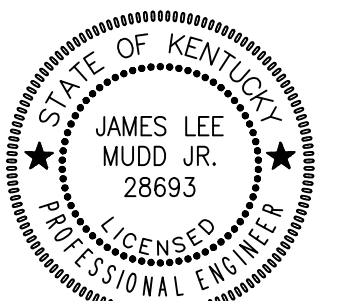
Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

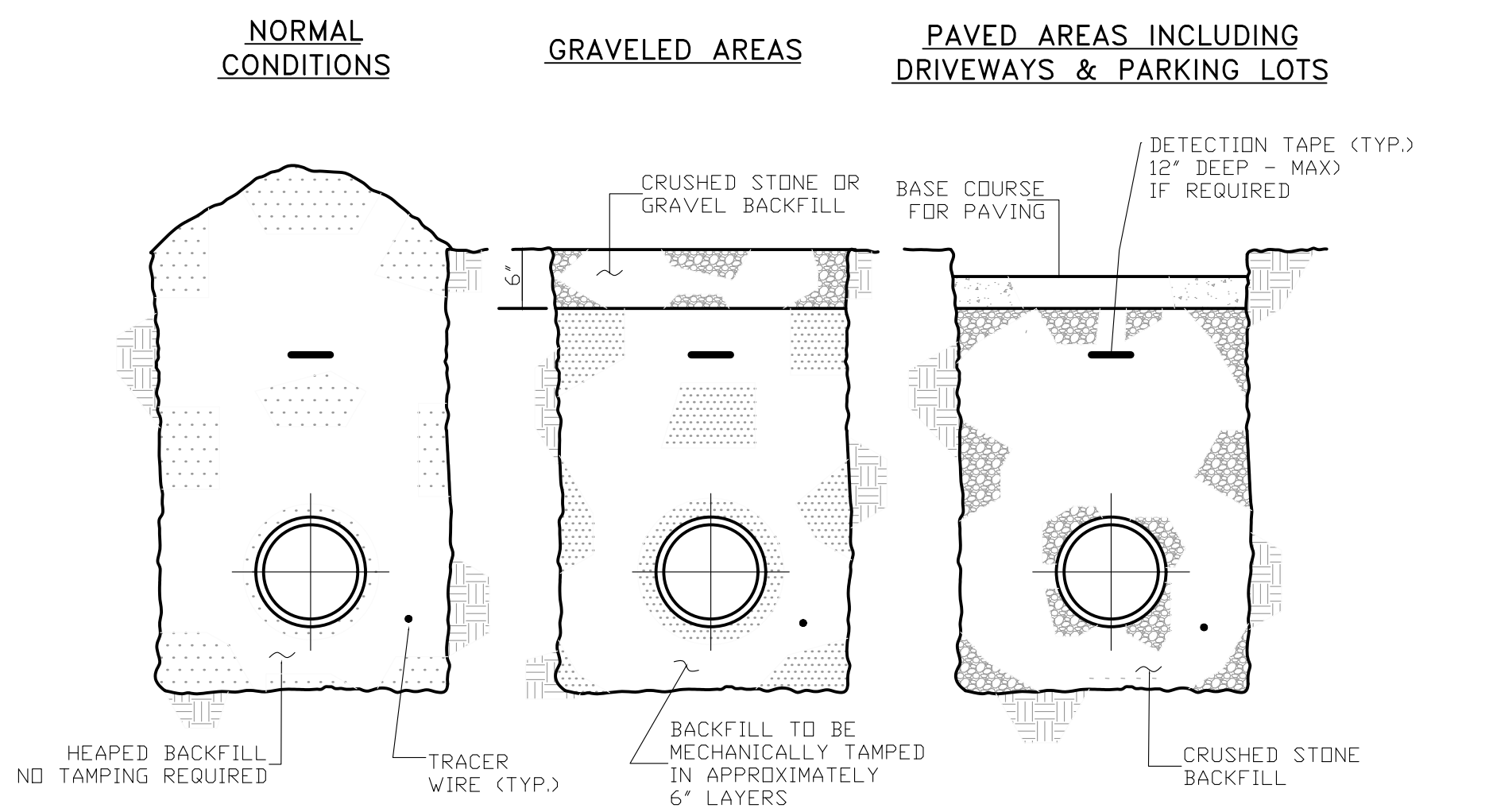
DESCRIPTION: MAINTENANCE OF TRAFFIC
JOE SCOTT RIDGE BOOSTER PUMP
STATION REPLACEMENT

CUSTOMER:
CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

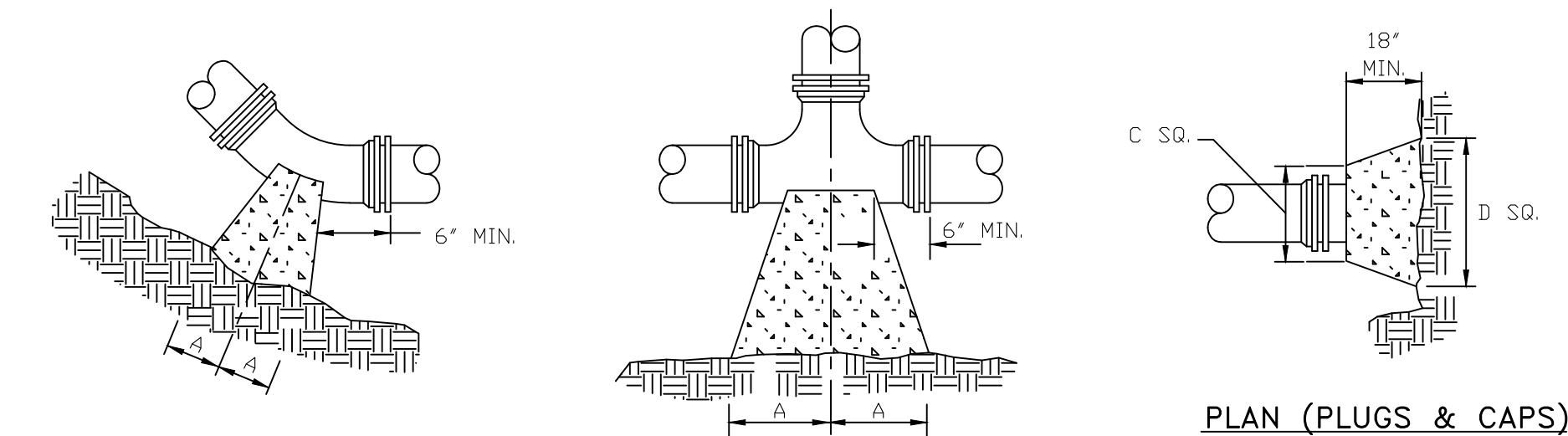
PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB

CHECKED BY: DMB
SCALE: AS NOTED
SHEET:
MOT-1





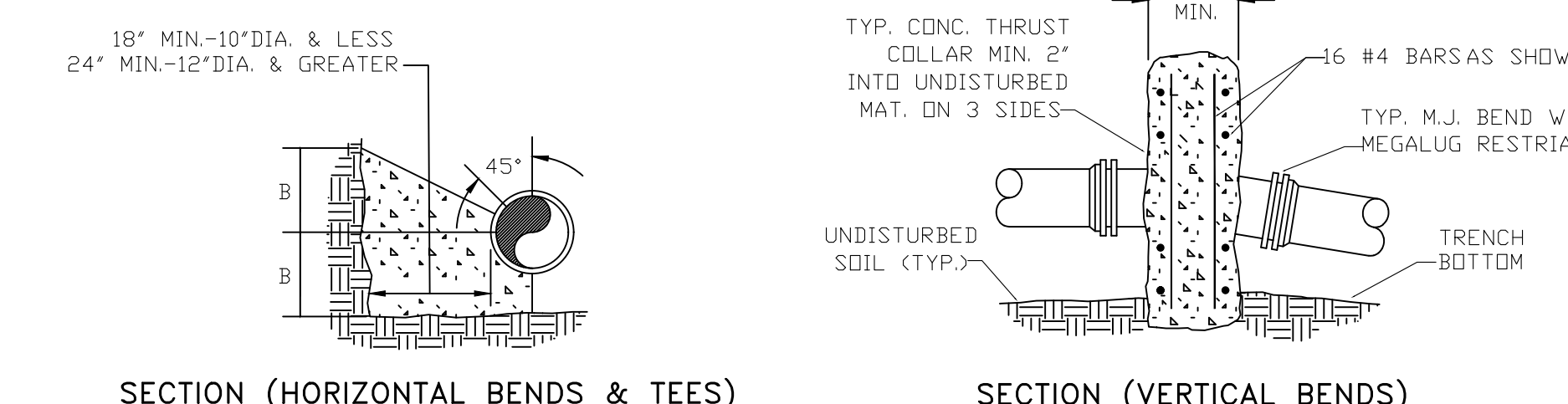
BACKFILLING



PLAN (HORIZONTAL BENDS)

PLAN (TEES)

PLAN (PLUGS & CAPS)



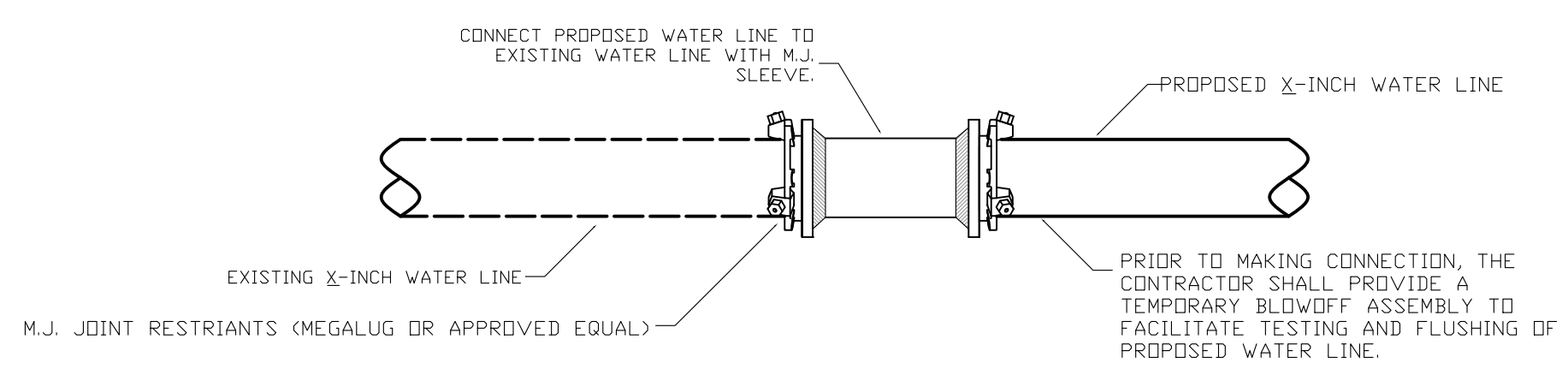
SECTION (HORIZONTAL BENDS & TEES)

SECTION (VERTICAL BENDS)

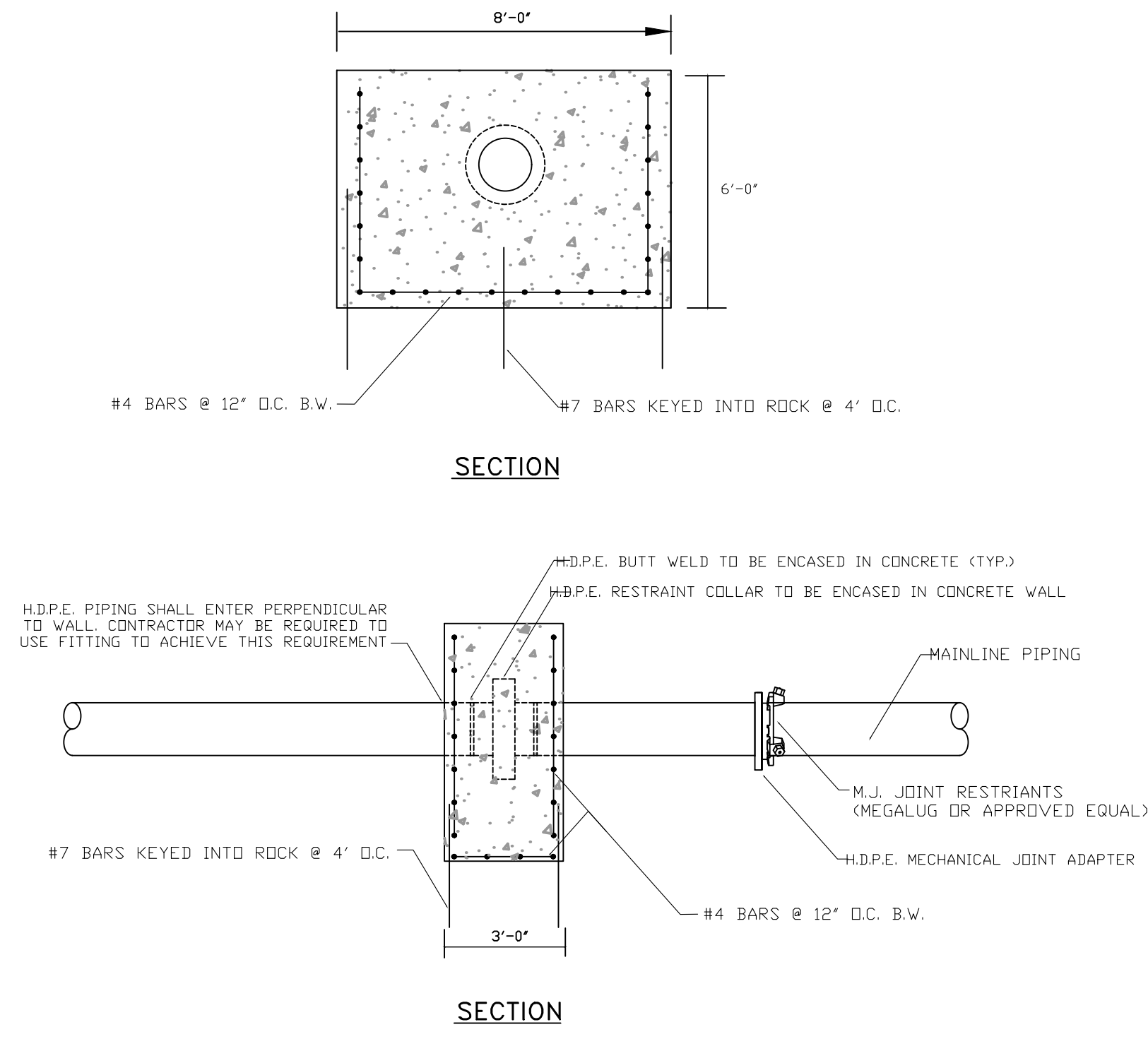
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE			PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D	
4"	8"	12"	8"	8"	6"	6"	6"	6"	11"	9"	10"	6"	
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"	
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"	
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"	
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"	
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"	

- NOTES:
- FOR VERT. BEND DOWN IN EXCESS OF 11 1/4° BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
 - FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
 - GLANDS & BOLTS SHALL REMAIN ACCESSIBLE AND MUST BE PROTECTED FROM CONCRETE BY PLASTIC SHEETING OR OTHERWISE.
 - ALL THRUST BLOCK & SUPPORT CONCRETE SHALL BE 3000 PSI READY MIX
 - THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
 - DESIGN CRITERIA:
LINE PRESSURE = 200 psi
SOIL BEARING CAPACITY = 2000 psf
FACTOR OF SAFETY = 1.5

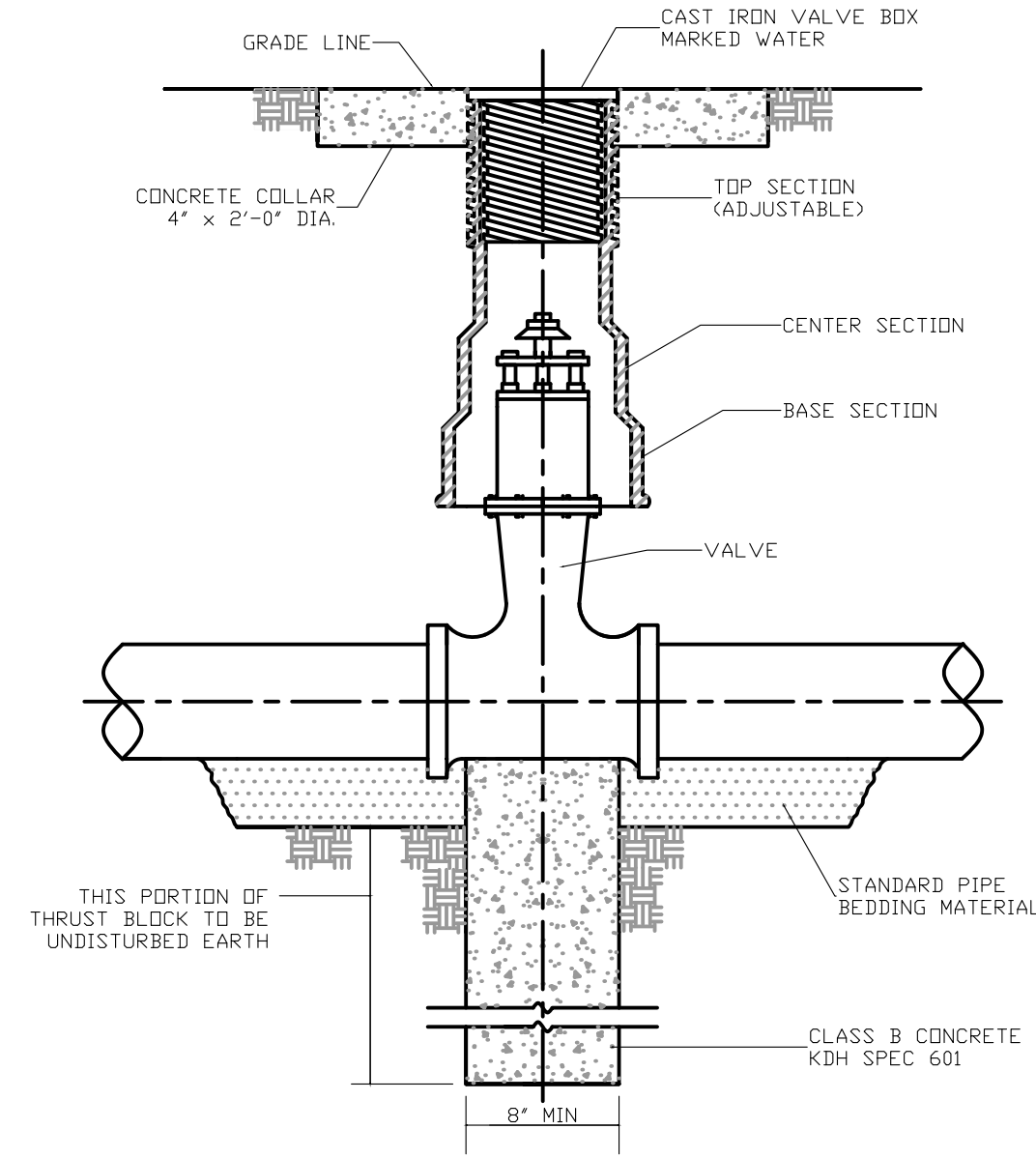
THRUST BLOCK DETAILS



DIRECT CONNECTION

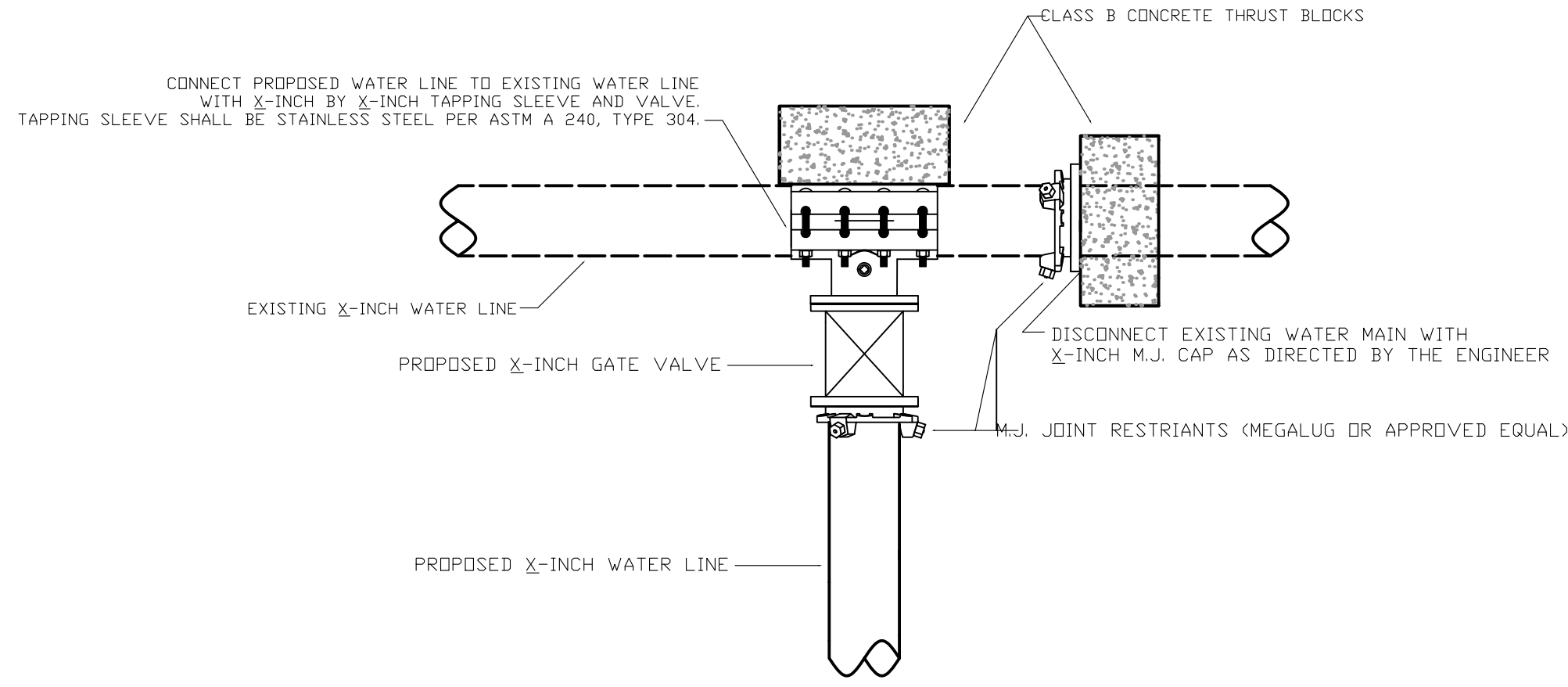


HDPE RESTRAINT WALL

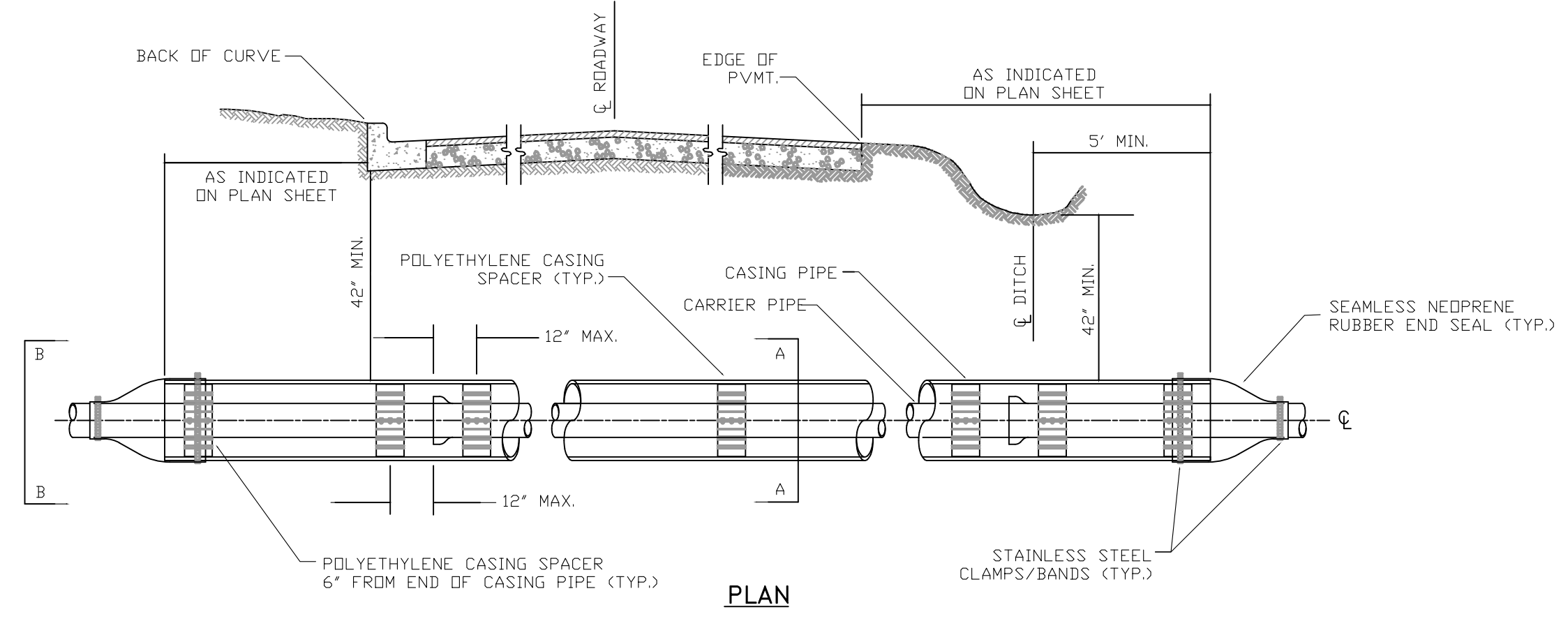


NOTE: SEE SPECIFICATION FOR PIPING MATERIALS AND PIPING JOINTS

GATE VALVE

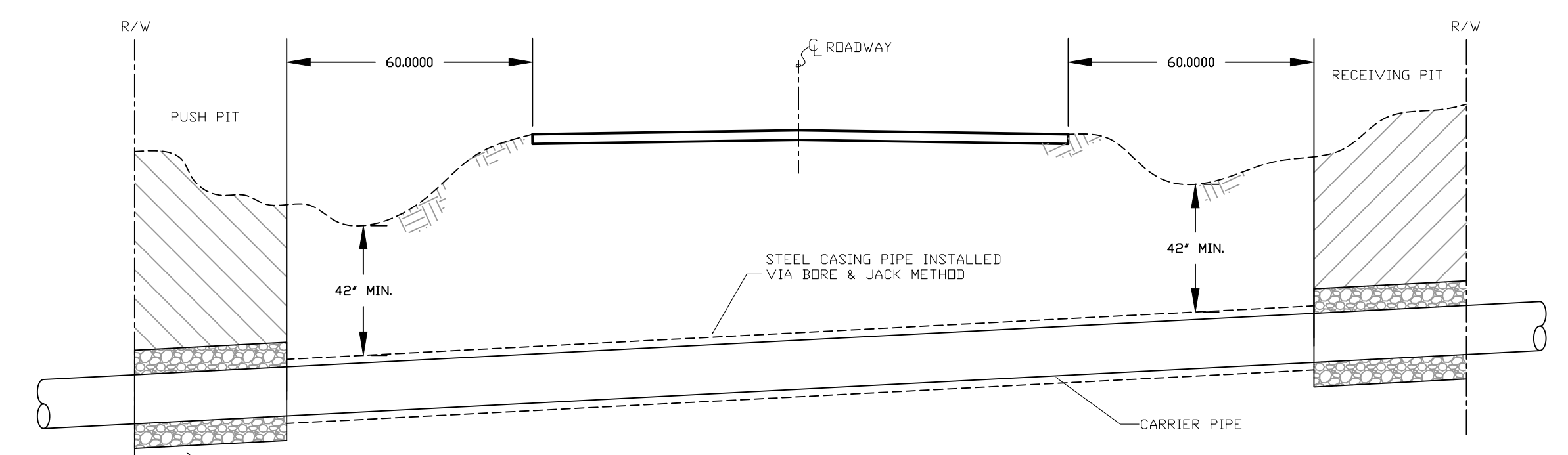
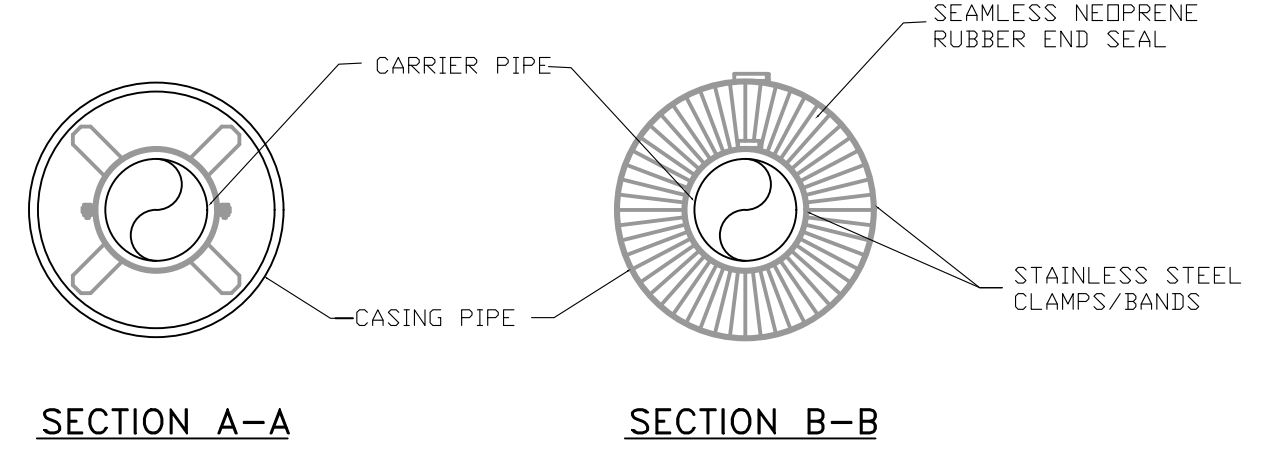


TYPE I CONNECTION



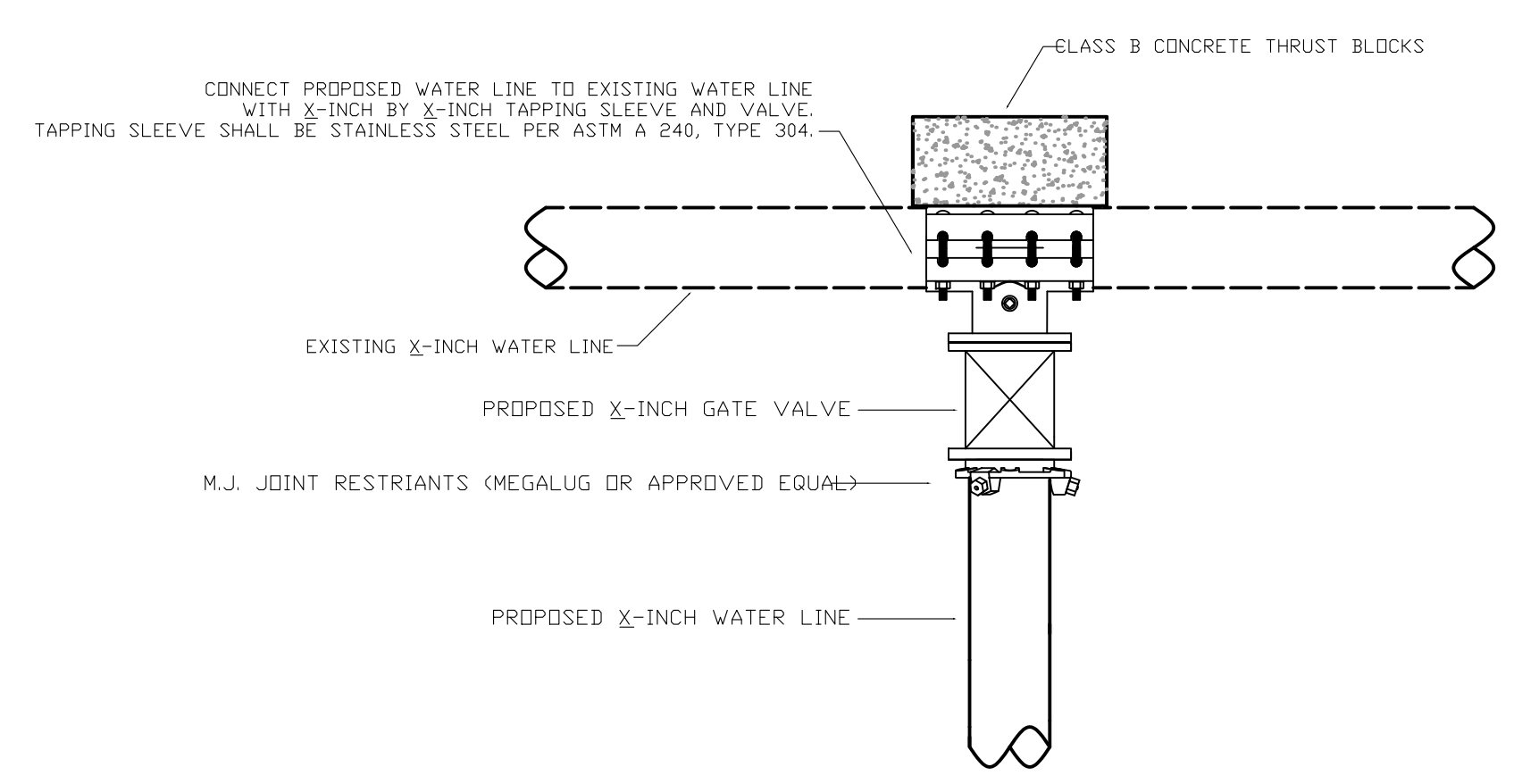
ENCASEMENT PIPE DETAILS

- NOTES:
- A MINIMUM OF THREE CASING SPACERS ARE REQUIRED PER JOINT, ONE EACH AT THE SPIGOT, MIDDLE & BELL.
 - ALL D.I. PIPE JOINTS WITHIN THE CASING PIPE SHALL BE EQUIPPED WITH A MECHANICAL JOINT RESTRAINT DEVICE.
 - CASING SPACERS SHALL BE AS MANUFACTURED BY CCI PIPELINE SYSTEMS, MODEL CSP, OR APPROVED EQUAL.
 - END SEALS SHALL BE AS MANUFACTURED BY CCI PIPELINE SYSTEMS, MODEL ESC, OR APPROVED EQUAL.

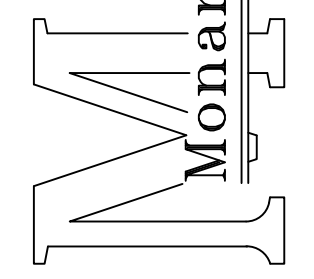


- NOTES:
- PUSH & RECEIVING PITS TO BE BACKFILLED AND THOROUGHLY COMPACTED IMMEDIATELY FOLLOWING INSTALLATION.
 - ALL HIGHWAY DITCHLINES TO REMAIN FREE AND CLEAR FOLLOWING INSTALLATION.
 - GROUND COVER SHALL BE RESTORED IN ALL DISTURBED AREAS VIA SEED AND STRAW AS SOON AS POSSIBLE.

STATE HIGHWAY ENCASED BORE CROSSING



TYPE II CONNECTION



Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

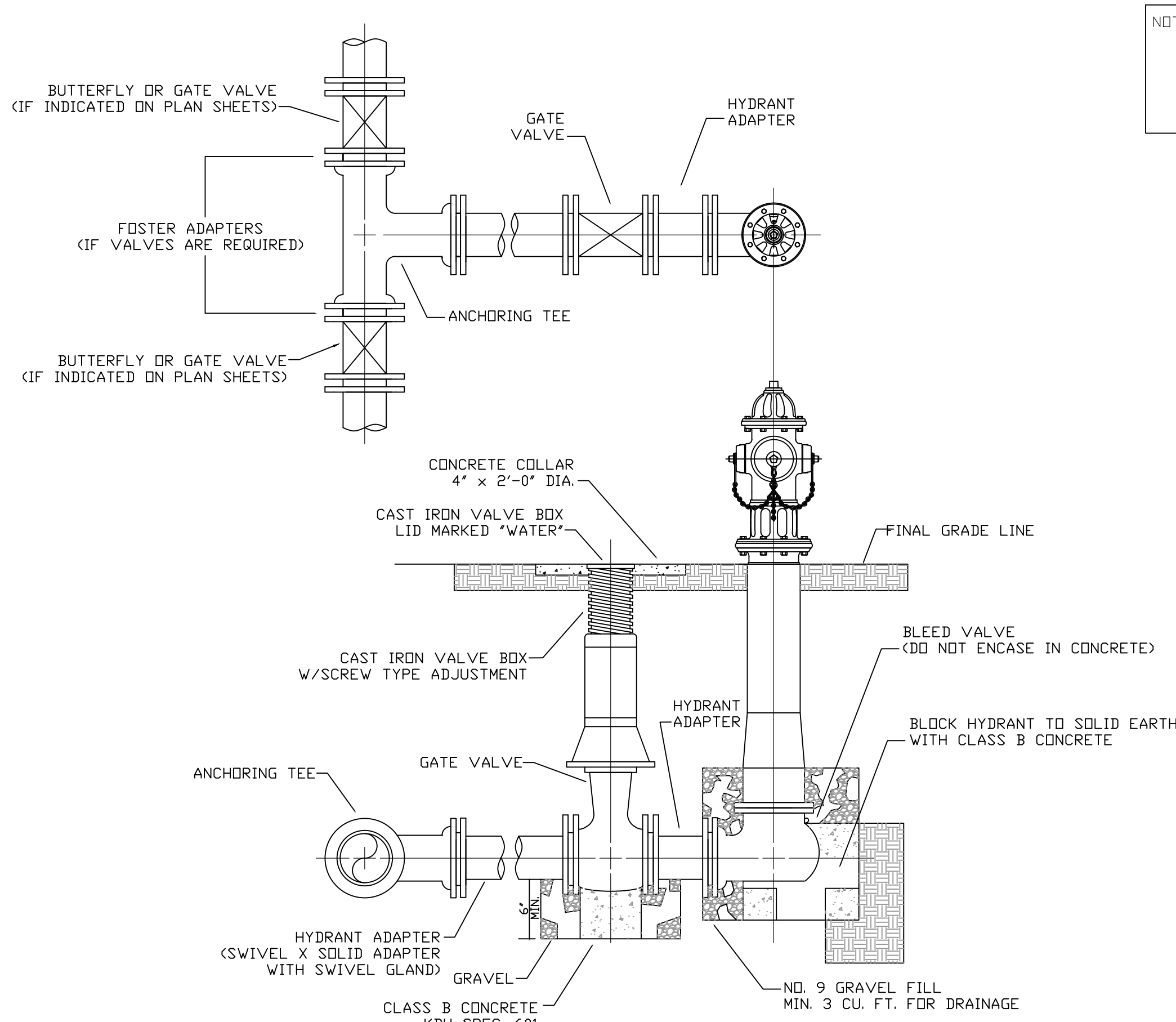
DESCRIPTION: **STANDARD DETAILS**
JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT

CUSTOMER: **CUMBERLAND COUNTY WATER DISTRICT**
CUMBERLAND COUNTY, KENTUCKY

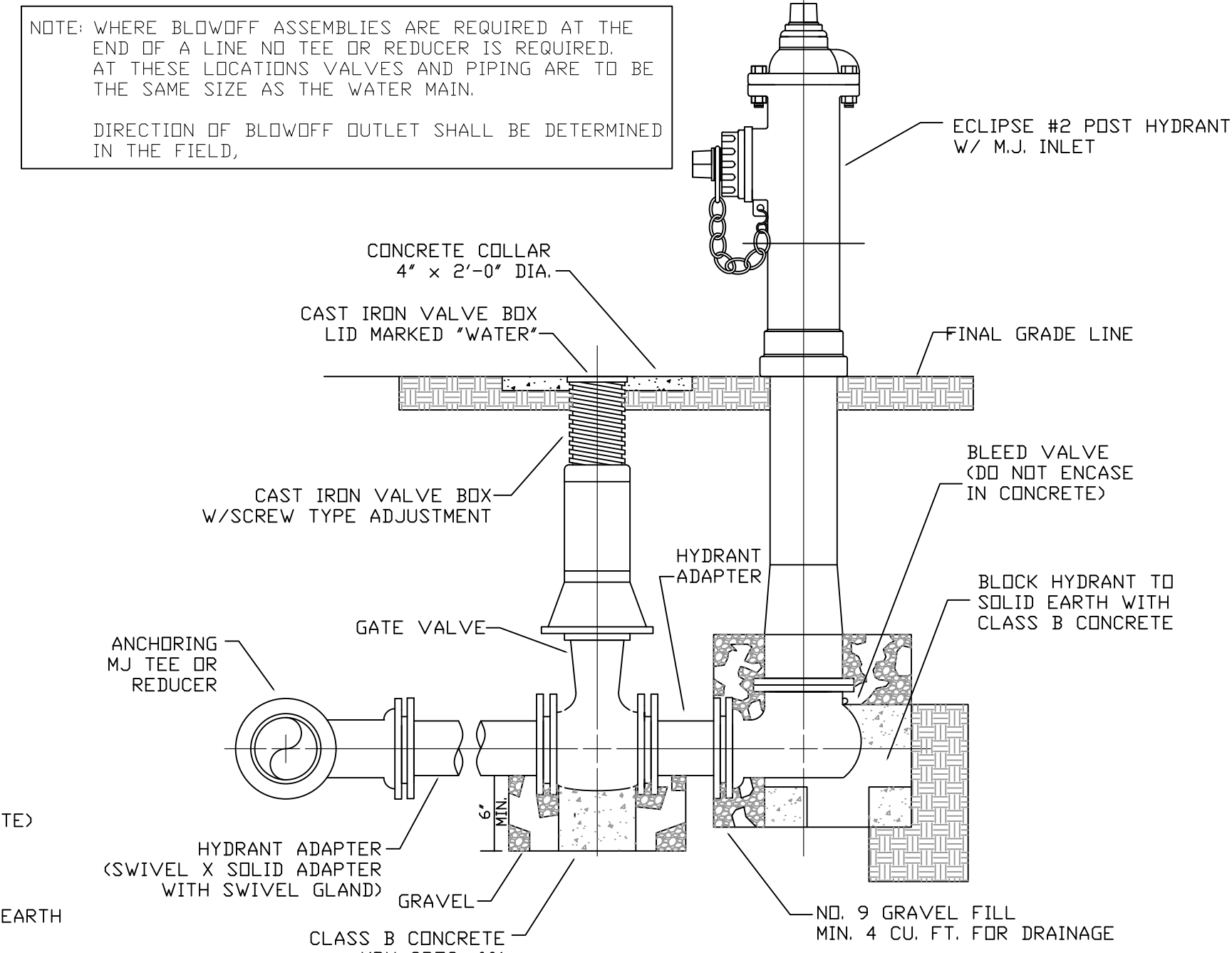
PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: AS NOTED

SHEET: **SD-1**

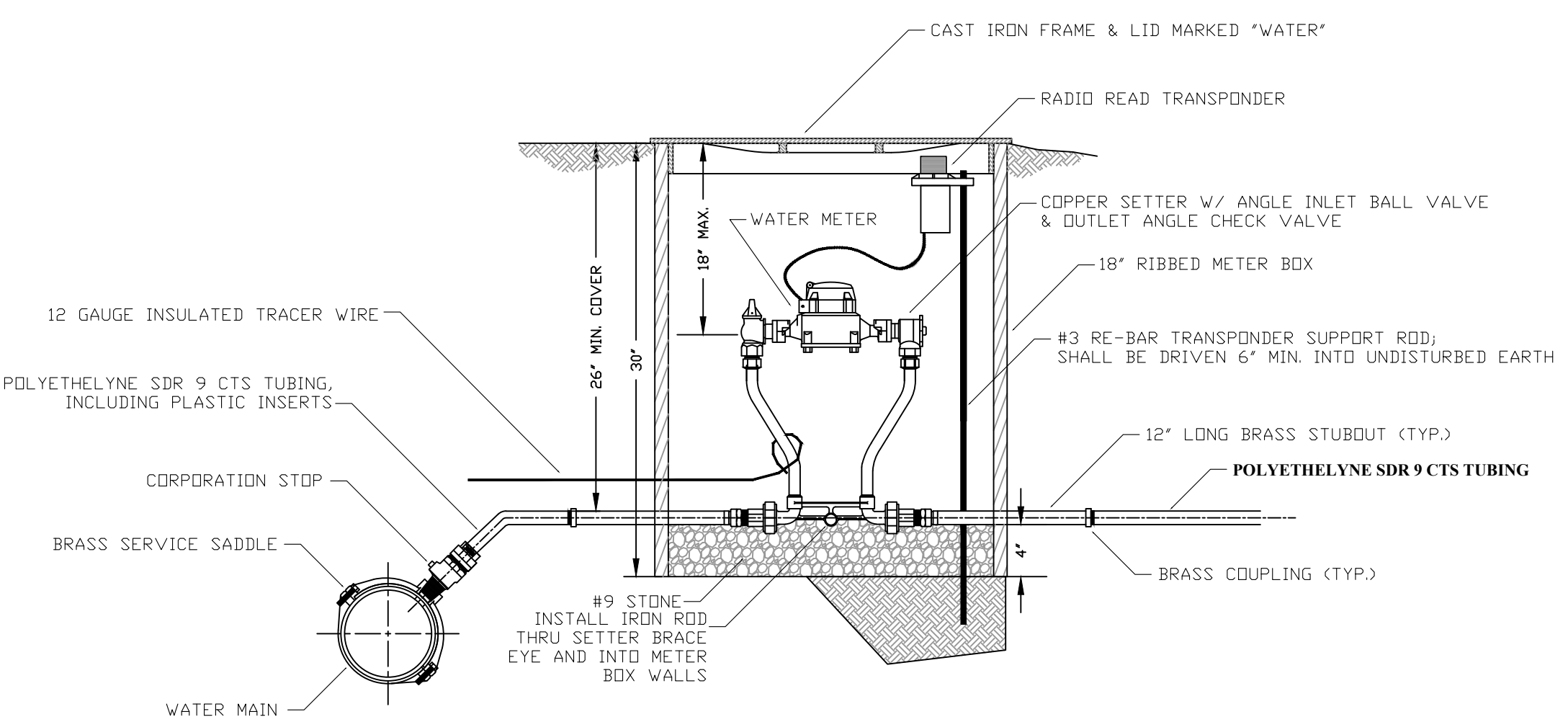
STATE OF KENTUCKY
JAMES LEE MUDD, JR.
28693
LICENSED PROFESSIONAL ENGINEER



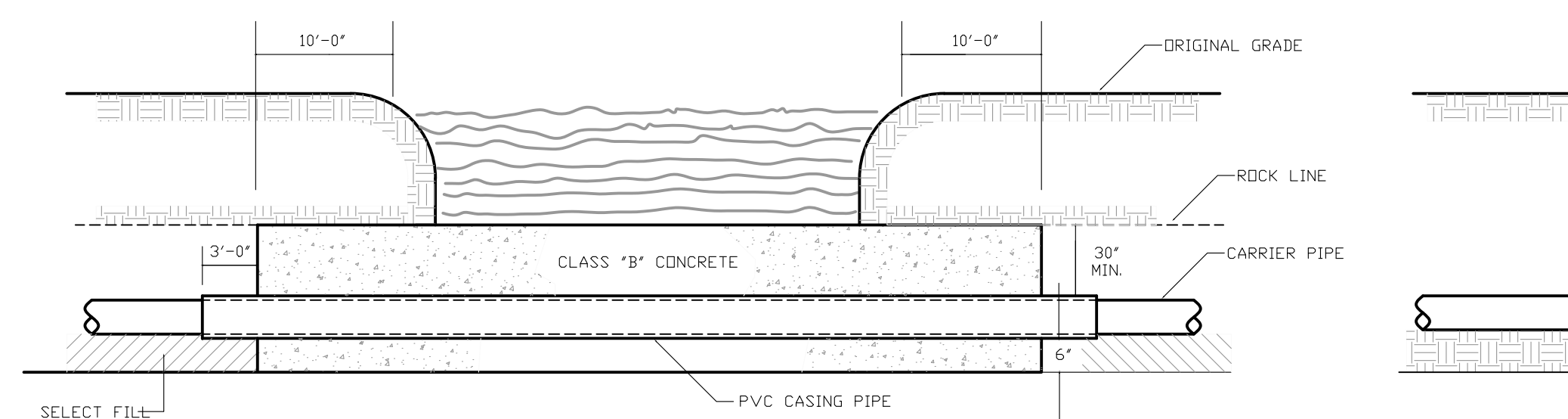
FLUSH HYDRANT ASSEMBLY



BLOWOFF ASSEMBLY



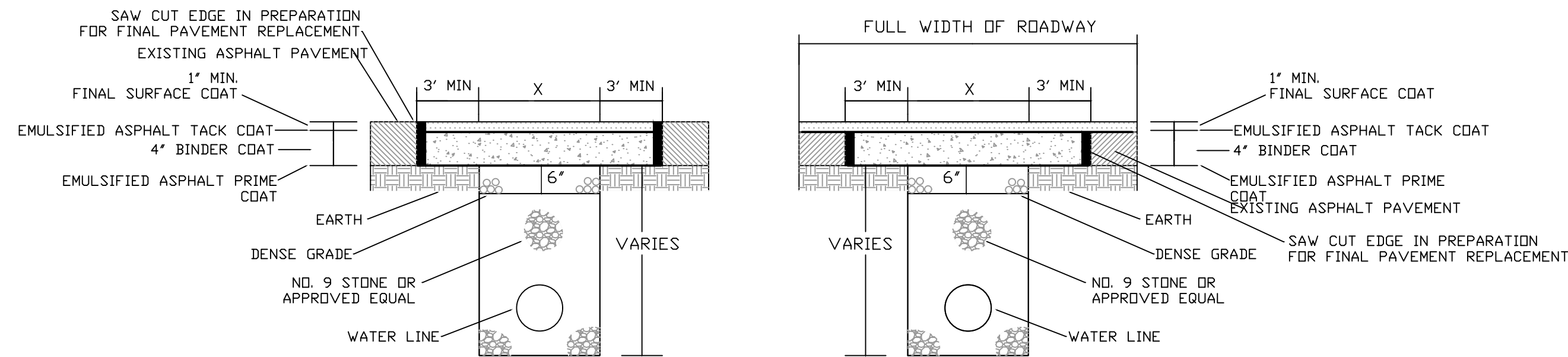
STANDARD METER SETTING



CREEK CROSSING IN ROCK

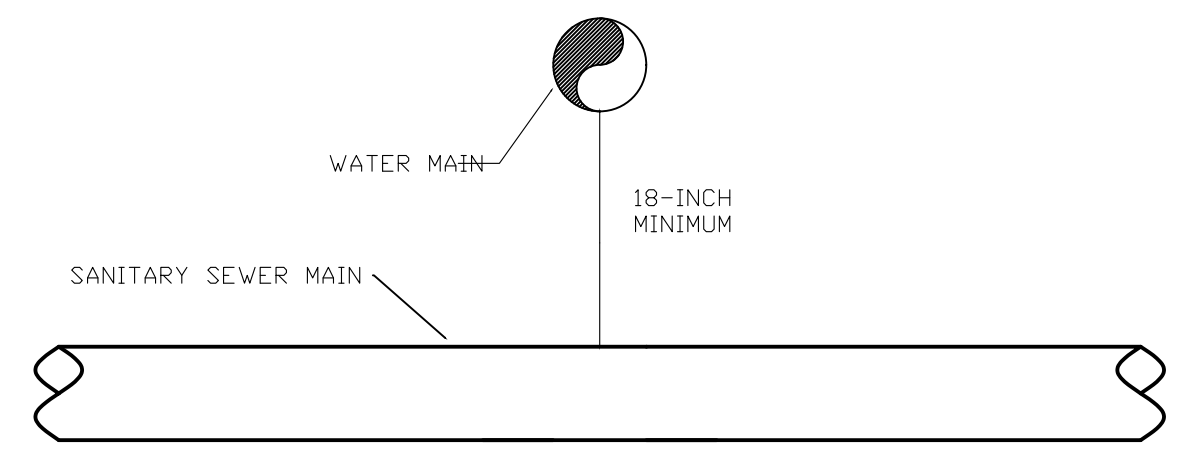
CREEK CROSSING

CREEK CROSSING IN SOIL

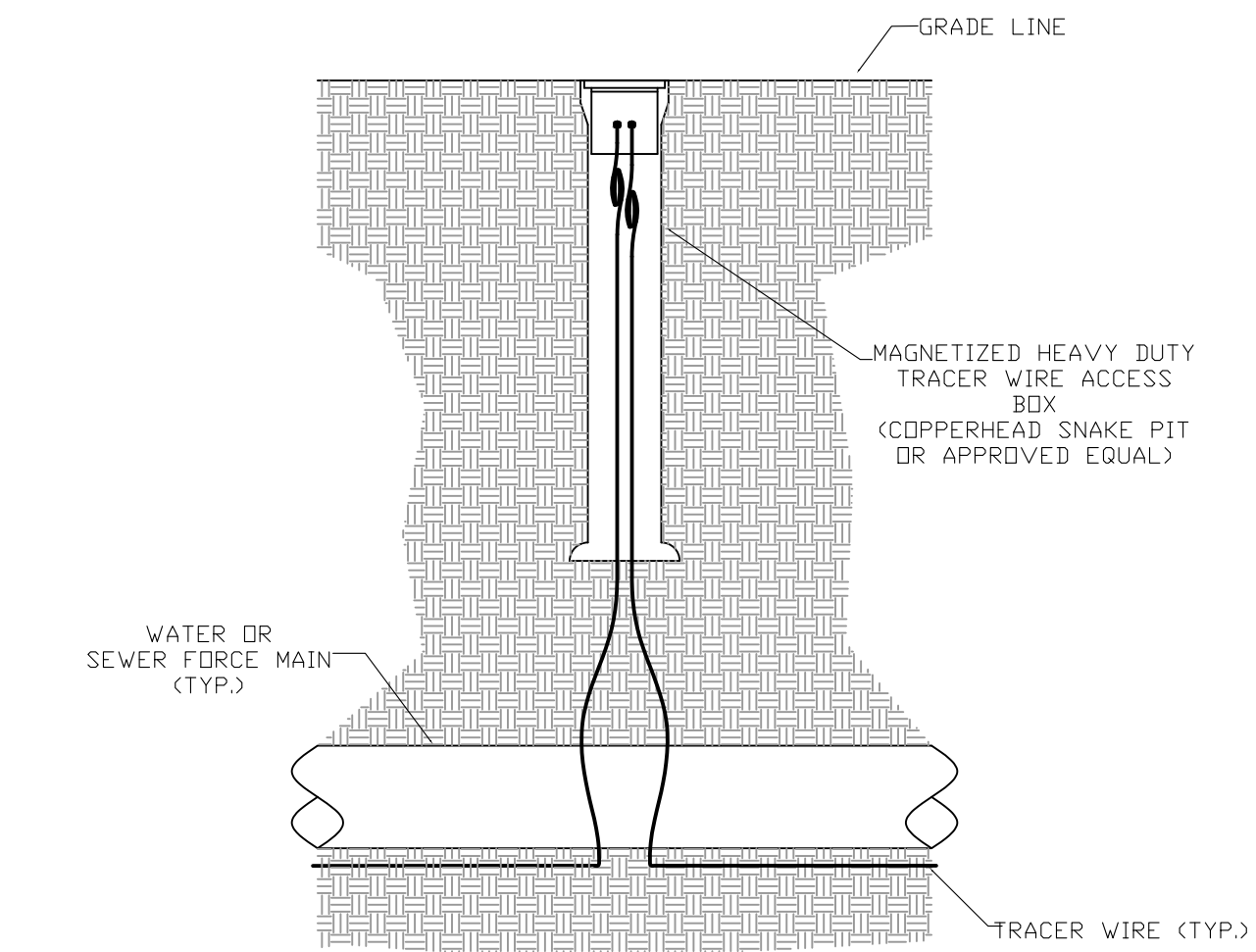


PAVEMENT REPLACEMENT

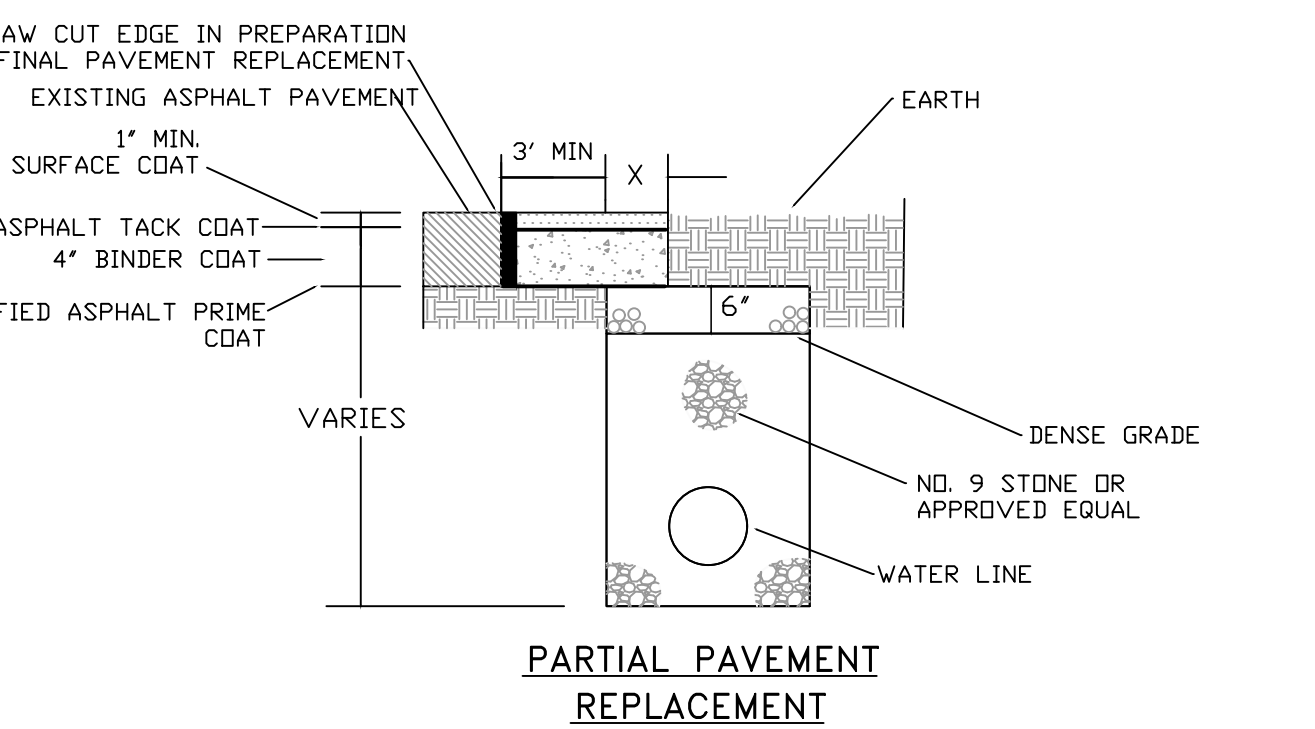
FULL WIDTH PAVEMENT REPLACEMENT



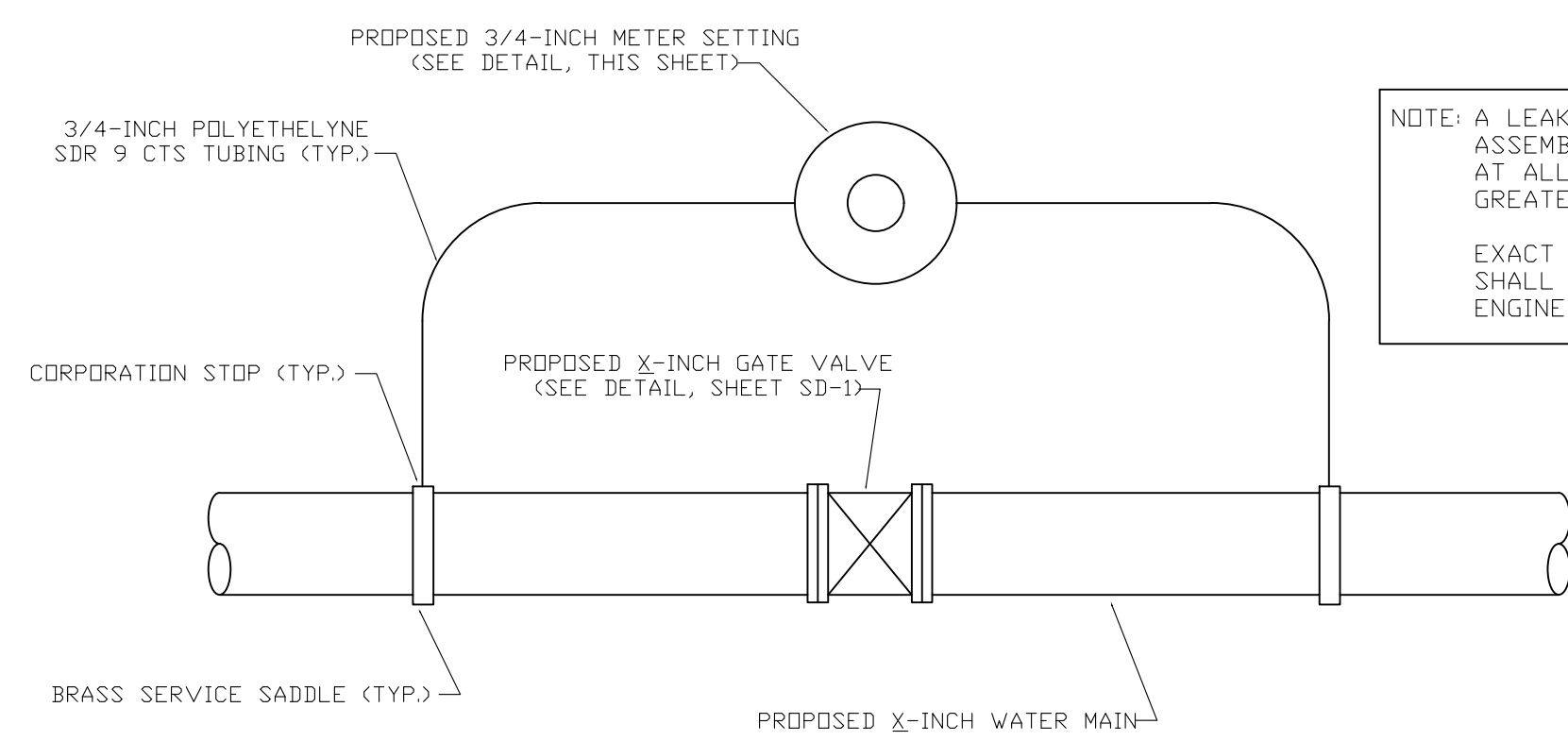
WATER & SEWER SEPARATION



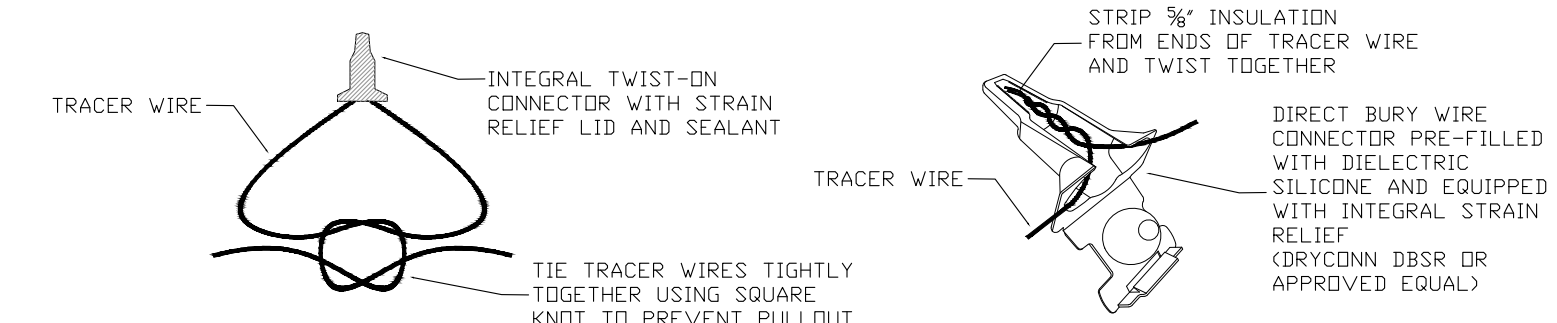
TRACER WIRE ACCESS BOX



PARTIAL PAVEMENT REPLACEMENT



LEAK DETECTION METER ASSEMBLY



TRACER WIRE CONNECTION

TRACER WIRE CONNECTOR DETAIL

NOTES:
FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
TRACER WIRE SHALL BE INSTALLED WITH THE PIPE AT THE TRENCH BOTTOM. ACCESS BOXES SHALL BE INSTALLED AT EACH VALVE, HYDRANT AND AIR RELEASE VALVE. TRACER WIRE ACCESS BOXES SHALL BE SPACED NO FURTHER THAN 1000' APART. A MINIMUM OF 3 FEET OF TRACER WIRE SHOULD BE COILED UP INSIDE OF EACH ACCESS BOX.

TRACER WIRE DETAILS

NOTES:
ANY TRENCH THAT DISTURBS PAVEMENT SHALL BE BACKFILLED WITH STONE. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND DEPTH AS EXISTING PAVEMENT.
ANY PUBLICLY TRAVELED AREA (I.E. COUNTY ROADS, BUSINESS ENTRANCES, BUSINESS AND PUBLIC PARKING LOTS, ETC.) SHALL BE TEMPORARILY RESTORED AT THE END OF EACH WORK DAY USING AN APPROVED COLD PATCH ASPHALT PAVEMENT.

BITUMINOUS PAVEMENT REPLACEMENT

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

STANDARD DETAILS
JOE SCOTT RIDGE BOOSTER PUMP STATION REPLACEMENT

CUMBERLAND COUNTY WATER DISTRICT
CUMBERLAND COUNTY, KENTUCKY

DESCRIPTION: PROJECT NO. 2534
DATE: DEC 2025
DRAWN BY: JLM
CHECKED BY: DSB
CHECKED BY: DMB
SCALE: AS NOTED

SHEET: SD-2