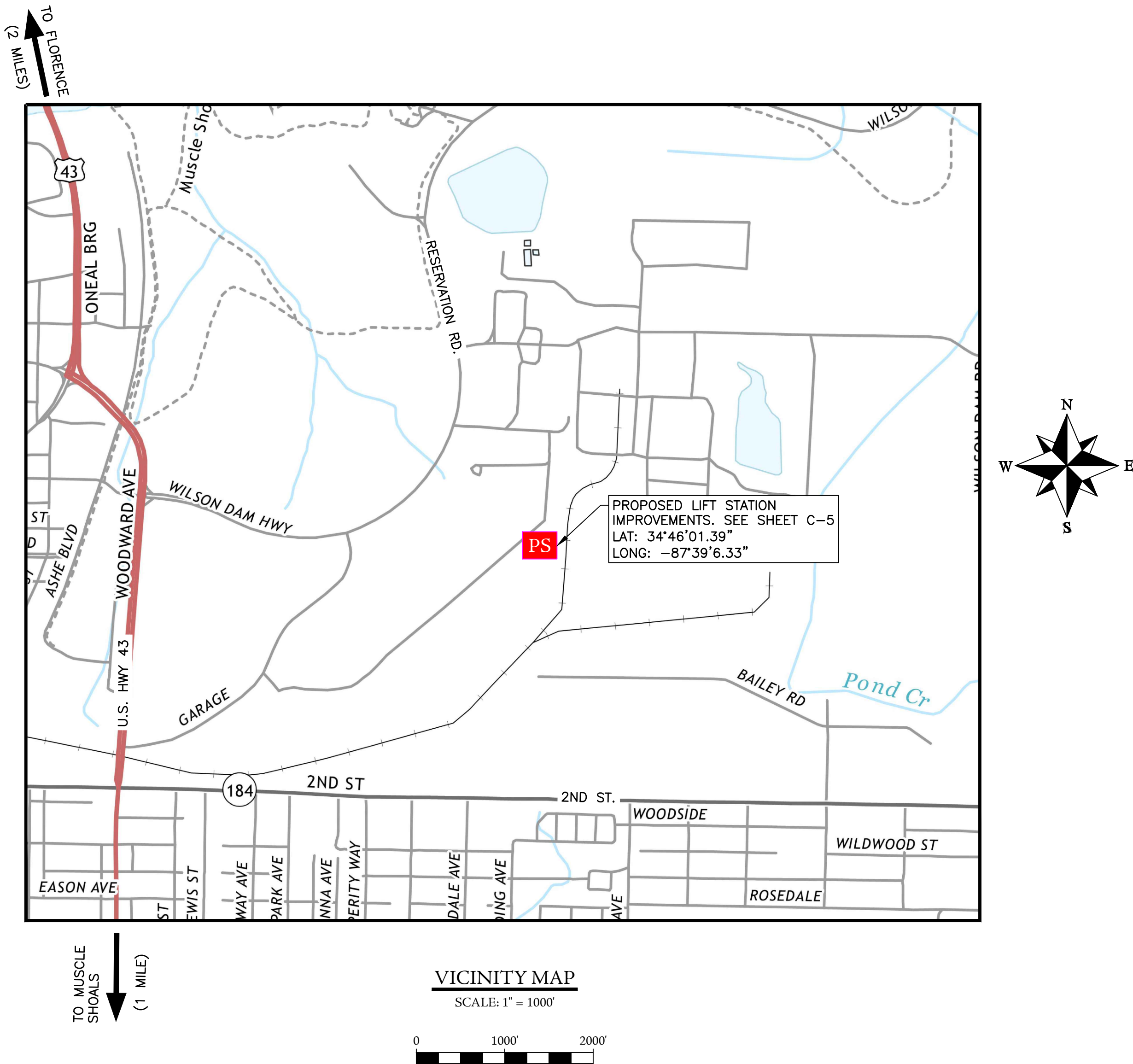
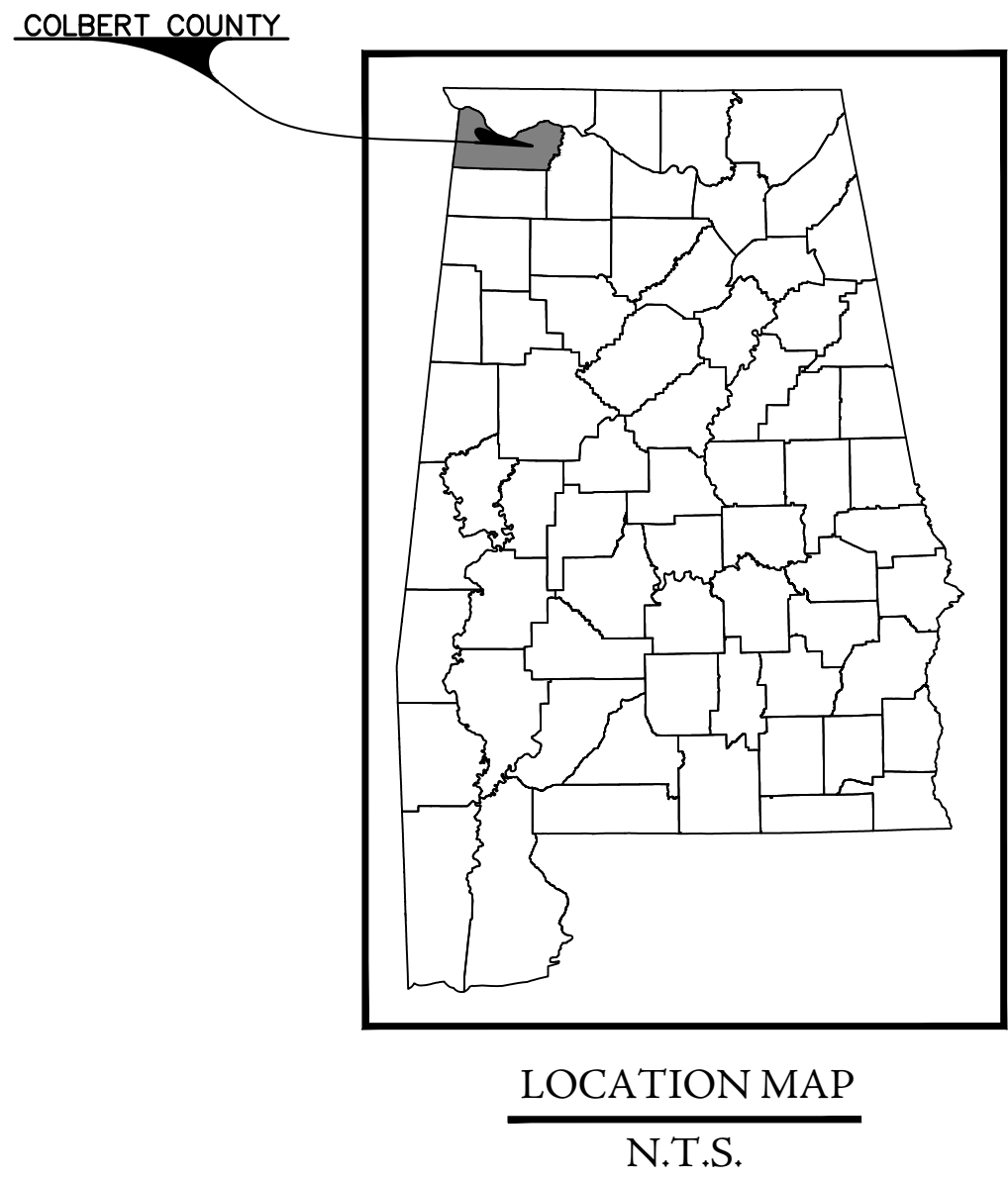


PLANS
OF THE
SANITARY SEWER LIFT STATION IMPROVEMENTS
FOR

CITY OF SHEFFIELD & COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA
ARC PROJECT No. AL-22241-2025
SEPTEMBER 2026

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PREPARED BY:
THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
800 Corporate Pkwy, Suite 100 301 N Dickson Street,
100, Birmingham, AL 35242 Tusculmbia, AL 35674

REVISIONS		DESCRIPTION	DATE	BY
#				
1				
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TITLE
SAN. SEWER LIFT STATION IMPROVEMENTS CITY OF SHEFFIELD COLBERT COUNTY COMMISSION COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242
301 N Dickson St,
Tusculmbia, AL 35674

ATTENTION:
THIS BAR = 1 INCH ON
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ADJUST SCALE IF THIS
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1"

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DATE: 09/2026

SHEET NO.
C-1

GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE FOLLOWING:

A) KELLEY GROUP, LLC SPECIFICATIONS

B) MANUFACTURER'S SPECIFICATIONS

C) STATE OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS OF HIGHWAY CONSTRUCTION, LATEST EDITION.
2. ALL CONTRACTORS AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING EXISTING SITE CONDITIONS AND HAVING ALL QUESTIONS ANSWERED PRIOR TO SUBMITTING BIDS AND BEGINNING CONSTRUCTION. A PRE-BID MEETING WILL BE HELD AND THE LOCATION/TIME IS LISTED IN THE SPECIFICATIONS.
3. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AS WELL AS FIELD VERIFIED BY ONSITE PERSONNEL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE KELLEY GROUP, LLC.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY THE KELLEY GROUP, LLC. OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT AND PAY ALL PERMIT FEES. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR OFFSETTING/MOVING THE SUPPLIED CONTROL DATA FOR PERFORMANCE OF THE NECESSARY WORK. ANY DEVIATION FROM THE SUPPLIED POINTS AND THE PLANS SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE CONTINUATION OF THE WORK.
9. THE SITE WILL BE AVAILABLE TO ANY CONTRACTOR BEFORE THE OFFICIAL BID OPENING.
10. CONTRACTOR IS RESPONSIBLE FOR WORKPLACE SAFETY AND SHALL SECURE THE PROJECT AREA DURING ALL TIMES WORK IS NOT BEING PERFORMED.

EROSION CONTROL NOTES:

1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
2. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
3. EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION, AND OTHER DEGRADATION OR POLLUTION TO SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS.
4. EROSION CONTROL DEVICES SHALL INCLUDE THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES, CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURN REINFORCEMENT MAT, DIVERSION BERMS, ETC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
6. EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINGS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
7. AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
8. A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
9. ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
10. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 14 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATION SECTION 652 AND 656.
11. PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
12. ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.
16. ALL EROSION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SECTIONS 665 OF THE ALDOT SPECIFICATIONS. PLANS SHOW DETAILS FOR EROSION CONTROL MEASURES. THE ENGINEER RESERVES THE RIGHT TO ALTER AND CHANGE THE EROSION CONTROL PLANS DUE TO WEATHER AND/OR UNFORESEEN NEED FOR EROSION CONTROL. CONTRACTOR IS EXPECTED TO BE PROACTIVE IN INSURING PROPER EROSION CONTROL. CONTRACTOR SHALL BE REQUIRED TO PROVIDE AN APPROVED RAIN GAUGE TO BE LOCATED ON SITE AND RAIN READINGS RECORDED.

GRADING NOTES:

1. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN AN APPROVED MANNER, AND COMPLETED IN ACCORDANCE WITH SECTION 210 OF THE ALDOT SPECIFICATIONS.
2. GRADES SHOWN ON PLANS REPRESENT FINISHED GRADES AND ELEVATIONS.
3. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
4. NO GRADING OFF-SITE OR IN ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
5. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
6. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
7. ALL NEW GRADING MUST SMOOTHLY TRANSITION INTO EXISTING GRADES AT THE CULMINATION OF THE NEW GRADES SLOPE.

UTILITY NOTES:

1. ALL CONNECTIONS AND SYSTEM OPERATIONS SHALL TAKE PLACE IN THE PRESENCE OF THE OWNER AND ENGINEER. THE CONTRACTOR SHALL GIVE 24HRS NOTICE TO THE OWNER AND ENGINEER BEFORE COMMENCING THESE ACTIVITIES.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE VARIOUS UTILITY OWNER'S AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT.
3. CONTRACTOR TO MAKE UTILITY LINE LOCATE REQUEST IN INCREMENTS NOT TO EXCEED 2,000 LINEAR FEET PER WORKING DAY.
4. UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED FILL PLACED IN 6 INCH LOOSE LIFTS. FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR AND OPTIMUM MOISTURE CONTENT WITHIN ±2.0%.
5. WHEN INSTALLING UTILITIES IN EXISTING PAVED AREAS OR IN AREAS WHERE SOILS ARE CONSIDERED UNSUITABLE FOR BEDDING OR BACKFILLING, UTILITY TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED AGGREGATE.
6. CONTRACTOR TO NOTIFY FIRE DEPARTMENT, POLICE, AND RESCUE SERVICES OF ANY WORK WORK REQUIRING OPEN CUT OF ROADWAYS.
7. SERVICE CONNECTIONS SHALL BE COORDINATED WITH THE OWNER FOR PLACEMENT OF METER BOXES WHEN PLACEMENT OF NEW OR RELOCATION OF EXISTING METER BOXES OCCURS.
8. ALL WATER MAINS, FIRE HYDRANTS, AND WATER SERVICE CONNECTIONS SHALL HAVE A MINIMUM COVER OF 3'-6", AND A MAXIMUM OF 5'-0", UNLESS OTHERWISE SPECIFIED IN THE PLANS.
9. MAXIMUM PIPE DEFLECTION SHALL BE $\frac{1}{8}$ OF THE MANUFACTURERS MAXIMUM ALLOWABLE DEFLECTION OR 2.5", WHICHEVER IS LESS.
10. NEW PIPE THAT IS LEFT UNATTENDED DURING CONSTRUCTION SHALL HAVE TEMPORARY PLUGS INSTALLED AT ALL OPENINGS.
11. VALVES SHALL BE INSTALLED AT A DISTANCE OF 5'-0" FROM TEES AND CROSSES.
12. EACH VALVE SHALL INCLUDE A VALVE BOX UNLESS OTHERWISE NOTED ON THE PLANS. ALL WATER VALVE BOX LIDS SHALL BE CAST DUCTILE IRON AND LABELED WITH THE WORDS "WATER"
13. ALL CONNECTIONS TO EXISTING WATER MAIN VALVES, FITTINGS OR OTHER APPURTENANCES AND ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, FIRE HYDRANTS, AND BLOW OFF ASSEMBLIES SHALL BE CONSTRUCTED WITH CONCRETE KICKERS AND SHALL ALSO BE INSTALLED WITH RESTRAINING GLANDS. ADDITIONALLY ALL VALVES SHALL BE INSTALLED WITH RESTRAINING GLANDS.
14. THE CONTRACTOR IS RESPONSIBLE FOR COLLECTING AND SENDING THE SAMPLING BACTERIAL WATER SAMPLE TO THE APPROPRIATE LAB FOR TESTING, COORDINATE WITH THE OWNER.
15. ALL NEW WATER LINES ARE TO BE ISOLATED, TESTED, AND APPROVED BY THE ENGINEER PRIOR TO OPENING THE NEW LINE TO THE EXISTING WATER SYSTEM.
16. WATER LINE TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS.
17. 12 GAUGE TRACER WIRE SHALL BE USED ON ALL PIPE AND WARNING TAPE SHALL BE PLACED 1' ABOVE ALL PIPE.
18. THE MINIMUM DISTANCE BETWEEN TEES, CROSSES, VALVES, AND BENDS SHALL BE 5'-0".
19. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE WATER LINE AT LEAST 48 HOURS PRIOR TO THE START OF THE CONSTRUCTION.
20. ALL WATER LINE TRENCHES BENEATH PROPOSED OR EXISTING PAVEMENT SHALL BE COMPACTED IN LIFTS.
21. A MINIMUM DISTANCE OF 18" SHALL BE MAINTAINED WHEN CROSSING THE PATH OF STORM SEWER PIPING.
22. THE CONTRACTOR SHALL LOCATE ON THE GROUND WITH PAINT OR EASILY VISIBLE MEANS ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. THE UTILITIES SHOWN ARE ILLUSTRATED AS LOCATED ON THE GROUND BY LINE LOCATORS, SURVEY OF ABOVE GROUND STRUCTURES, AND ACCORDING TO UTILITY MAPS, AND ARE PROVIDED AS INFORMATION ONLY.
23. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.
24. THE WORK REQUIRED TO RELOCATE, REMOVE, INSTALL, REPLACE, ETC. UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITHIN THE LIMITS OF THE WORK.
25. THE CONTRACTOR SHALL PRESERVE AND PROTECT ACCORDING TO THE INSTRUCTION OF THE UTILITY INVOLVED ANY "LIVE" UTILITIES LOCATED BY THE UTILITY COMPANY OR CONTRACTOR.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL CONCRETE, SIDEWALKS, WALLS, ETC. DAMAGED DURING CONSTRUCTION. ALL DISTURBED AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RESTORED TO THE ORIGINAL CONDITION OR AS ACCEPTED BY THE OWNER. UNSTABLE OR PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF RESULTING REPORTS.
28. SIGNS AND MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE PROJECT

TRAFFIC CONTROL NOTES

1. THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.
2. ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPES IV OR VII FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.
3. THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.
4. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.
5. CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.
6. FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

7. ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.
8. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.
9. ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY E MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.
10. SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.
11. CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
12. THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.
13. MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.
14. R16-3 AND R16-3a SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THEY SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT. AN R2-1 SIGN SHALL ALWAYS BE REQUIRED FOLLOWING AN R16-3 SIGN. ADDITIONAL R16-3 SIGNS SHALL BE POSTED AT A MAXIMUM THREE MILE INTERVALS THROUGHOUT THE PROJECT LIMITS. ADDITIONAL R16-3 SIGNS SHALL BE REQUIRED WITH A W3-5b SIGN AND R2-1 SIGN WHENEVER A REDUCTION IN SPEED IS REQUIRED.
15. WHEN A CONSTRUCTION WORK ZONE SPEED LIMIT REDUCTION IS REQUIRED, THE CONTRACTOR SHALL COVER OR REMOVE THE R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS AT THE END OF THE WORK DAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
16. CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23.

ABBREVIATIONS

ACQ'D	ACQUIRED
AC	ACRE
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION
BM	BENCHMARK
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BLDG	BUILDING
CC	CARRYING CAPACITY
CIP	CAST IRON PIPE
C	CENTER LINE
CONC	CONCRETE
CU. YD.	CUBIC YARD
C&G	CURB AND GUTTER
DF	DESIGN FLOW
DIST	DISTANCE
DA	DRAINAGE AREA
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
E	EASTING
ESMT	EASEMENT
EL	ELEVATION
FL	FLOWLINE
GPM	GALLONS PER MINUTE
GM	GAS METER
GV	GAS VALVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HC	HANDICAP
HDWL	HEADWALL
HW	HIGH WATER
HORIZ	HORIZONTAL
JCT	JUNCTION
JCT BOX	JUNCTION BOX
LF	LINEAR FEET
LP	LOW POINT
MB	MAILBOX
MH	MANHOLE
N	NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
P	PROPERTY LINE
RR	RAILROAD
R	RANGE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RD	ROAD
SS	SANITARY SEWER
S	SECTION
SQ. YD.	SQUARE YARD
STA	STATION
ST	STREET
TBM	TEMPORARY BENCH MARK
T	TOWNSHIP
VERT	VERTICAL
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
WM	WATER METER
WV	WATER VALVE
WP	WATERPROOF
WW	WINGWALL
YD	YARD

GENERAL NOTES

SAN. SEWER LIFT STATION IMPROVEMENTS

CITY OF SHEFFIELD

COLBERT COUNTY COMMISSION

COLBERT COUNTY, ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

301 N Dickson St,
Tusculumia, Alabama 35674

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR ≠ 1 INCH.

1"

PROJECT NO: 24-0032A

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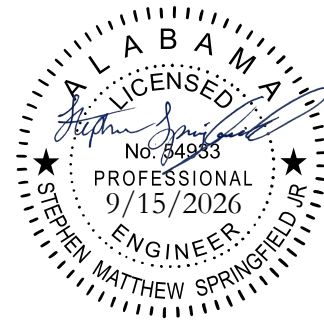
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DATE: 09/2026

SHEET NO.

C-2



ABBREVIATIONS			
ACQUIRED	AQ'D	LINEAR FEET	L.F.
ACRE	AC.	POINT ON CURVE	P.O.C.
BENCHMARK	B.M.	POINT OF CURVE	P.C.
BITUMINOUS COATED		POINT OF INTERSECTION	P.I.
CORRUGATED METAL PIPE	B.C.C.M.P.	POINT OF TANGENT	P.T.
BRICK RESIDENCE	BR. RES.	POINT ON TANGENT	P.O.T.
BUILDING	BLDG.	PROPERTY LINE	ℙ
CARRYING CAPACITY	C.C.	RAILROAD	R.R.
CAST IRON PIPE	C.I.P.	RANGE	R.
CENTER LINE	℄	RIGHT OF WAY	R.O.W.
CONCRETE	CONC.	REQUIRED	REQ'D
CORNER	COR.	REINFORCED CONCRETE PIPE	R.C.P.
CUBIC YARD	C.Y.	SANITARY SEWER	SAN. SEW.
CURB AND GUTTER	C&G	SECTION	SEC.
DESIGN FLOW	D.F.	SHOULDER	SHLDR.
DISTANCE	DIST.	SIDE DRAIN	S.D.
DOUBLE	DBL.	SQUARE YARD	S.Y.
DRAINAGE AREA	D.A.	STATION	STA.
DUCTILE IRON	D.I.	STORM SEWER	STM. SEW.
DUCTILE IRON PIPE	D.I.P.	STREET	ST.
EASEMENT	ESMT.	TANGENT TO CURVE	TAN. TO C.
ELEVATION	EL.	TOWNSHIP	T.
FLOW LINE	F.L.	VALLEY GUTTER	V.G.
FRAME RESIDENCE	FR. RES.	VERTICAL	VERT.
GALLONS PER MINUTE	G.P.M.	VERTICAL POINT OF CURVE	V.P.C.
GAS METER	G.M.	VERTICAL POINT OF INTERSECTION	V.P.I.
GAS VALVE	G.V.	VERTICAL POINT OF TANGENT	V.P.T.
HEADWALL	HDWL.	VITRIFIED CLAY PIPE	V.C.P.
HIGH WATER	H.W.	WATER METER	W.M.
HORIZONTAL	HORIZ.	WATER VALVE	W.V.
JUNCTION	JCT.	WING WALL	W.W.
JUNCTION BOX	JCT. BOX	YARD	YD.

MISCELLANEOUS	
	INTERSTATE HIGHWAY
	UNITED STATES HIGHWAY
	STATE HIGHWAY
	COUNTY HIGHWAY

PIPE FITTING SYMBOLS			
	90° ELBOW		ECCENTRIC REDUCER
	90° BASE ELBOW		BLIND FLANGE
	90° LONG RADIUS ELBOW		MECHANICAL JOINT PLUG
	90° REDUCING ELBOW		VICTAULIC COUPLING
	45° ELBOW		MERCER EXPANSION JOINT
	22.5° ELBOW		FLANGED COUPLING ADAPTER W/ THRUST TIES
	11.25° ELBOW		GROOVED END IPS PIPE
	TEE		RETAINER GLANDS
	CROSS		FLARE 90° ELBOW
	90° SIDE OUTLET ELBOW		FLARE CASTINGS
	SIDE OUTLET TEE		WALL PIPE
	WYE		FLOOR PIPE
	CONCENTRIC REDUCER		WALL SLEEVE
			FLOOR SLEEVE

CONTRACTOR NOTE:

THE TYPE, SIZE, LOCATION, AND DEPTH OF ALL PUBLIC UTILITIES MAY OR MAY NOT BE SHOWN FROM AVAILABLE RECORDS.

THE CONTRACTOR IS REQUIRED TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION. LOCATIONS MAY BE ASCERTAINED BY CONTACTING ALABAMA LINE LOCATION CENTER AT 1-800-292-8525.

NATURAL		
EXISTING	PROPOSED	DESCRIPTION
		TREE (SIZE & DESCR. NOTED)
		SHRUB
		TREE LINE
		EDGE OF WATER
		EARTH
		ROCK
		DITCH CENTERLINE
STRUCTURES		
EXISTING	PROPOSED	DESCRIPTION
		ASPHALT ROAD OR DRIVEWAY
		BUILDING
		BRIDGE OR BOX CULVERT (SIZE & DESCR. NOTED)
		CHAIN LINK FENCE
		CONCRETE ROAD OR DRIVEWAY
		CONCRETE SIDEWALK
		DROP INLET (DESCR. NOTED)
		EDGE OF CURB
		EDGE OF ROAD
		FIRE HYDRANT
		GATE
		GRAVEL ROAD OR DRIVEWAY
		GUARDRAIL
		HOG WIRE OR BARBED WIRE FENCE
		MAILBOX
		MASONRY WALL (DESCR. NOTED)
		RAILROAD TRACK - SINGLE
		RAILROAD TRACK - DOUBLE
		ROAD ℄
		STORM DRAIN PIPE (SIZE & DESCR. NOTED)
		TRAFFIC OR STREET SIGN
		WATER METER
		WATER VALVE
		WOOD FENCE

SURVEY		
EXISTING	PROPOSED	DESCRIPTION
		SPOT ELEVATION
		CONTOUR
		PIPE CENTERLINE LOCATION
		RIGHT OF WAY
		SERVITUDE OR EASEMENT
		PROPERTY IRON (DESC. NOTED)
		PROPERTY LINE
		SECTION CORNER
		SECTION LINE
		¼ - ¼ SECTION LINE
		TRACT NO. FOR ROW
UTILITIES		
EXISTING	PROPOSED	DESCRIPTION
		SANITARY SEWER MANHOLE
		SANITARY SEWER GRAVITY LINE (SIZE NOTED IF KNOWN)
		SANITARY SEWER FORCEMAIN (SIZE NOTED IF KNOWN)
		UTILITY MANHOLE (TYPE NOTED IN CIRCLE P,T,ETC...)
		WATER LINE (SIZE NOTED IF KNOWN)
		GAS LINE (SIZE NOTED IF KNOWN)
		WATER METER
		GAS METER
		GAS LINE MARKER (NOTED)
		VALVE (TYPE NOTED)
		POWER POLE
		GUY WIRE
		OVERHEAD TELEPHONE
		OVERHEAD ELECTRIC
		UNDERGROUND TELEPHONE
		UNDERGROUND ELECTRIC
		GROUT HOLES
		FIRE HYDRANT

REVISIONS		DATE	BY
DESCRIPTION			
#			
1			
2			
3			
4			
5			
6			

LEGEND

SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY

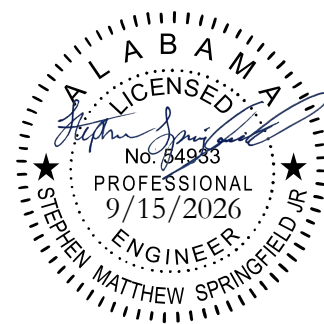
800 Corporate Parkway, Suite 100
Birmingham, Alabama 35242

301 N. Dickson Sr.
Tusculum, AL 35674

ATTENTION:
THIS BAR = 1 INCH ON ORIGINAL DRAWING.
ADJUST SCALE IF THIS BAR ≠ 1 INCH.

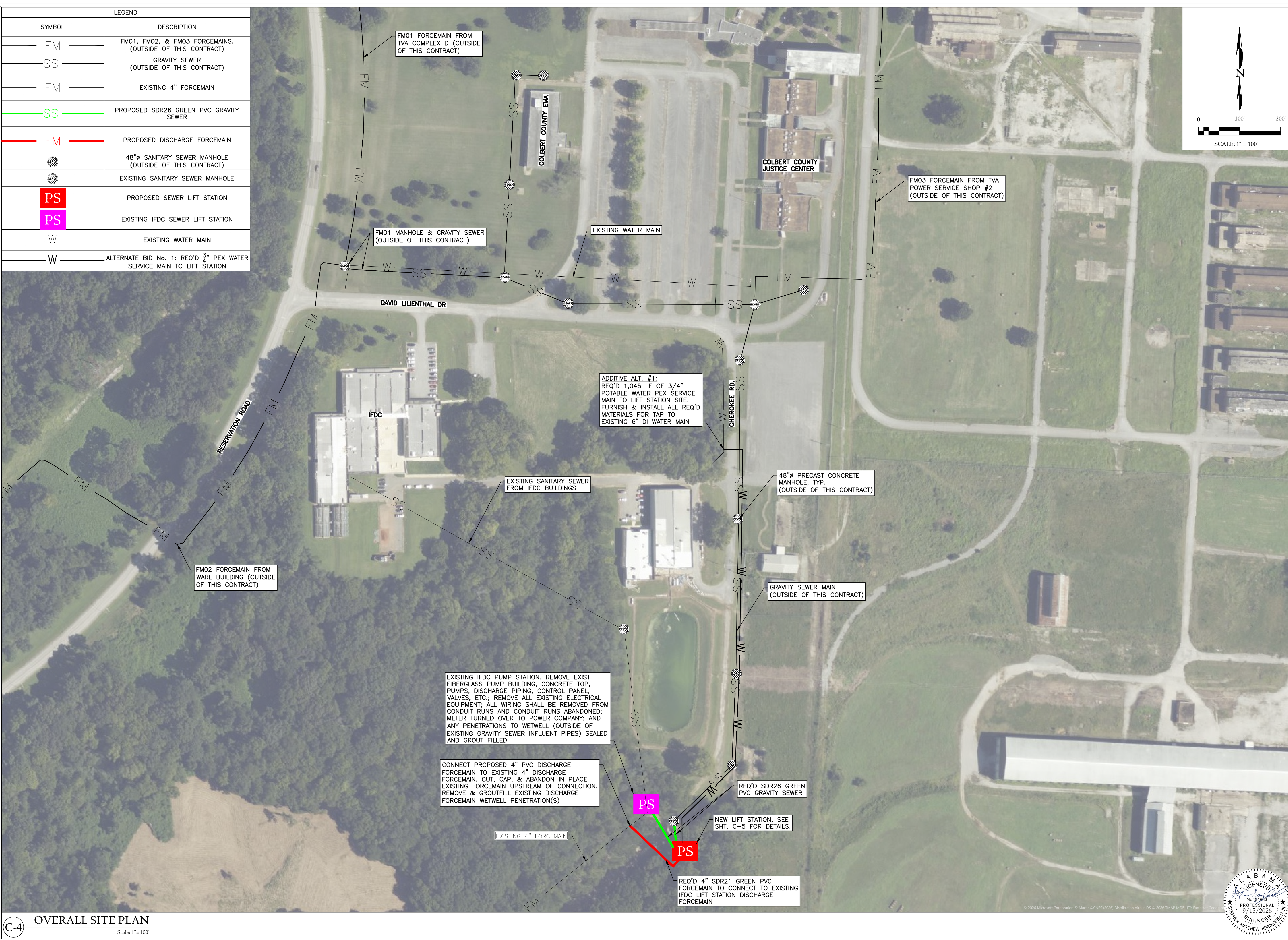
PROJECT NO: 24-0032A
DRAWN BY: SMS
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 09/2026

SHEET NO.
C-3



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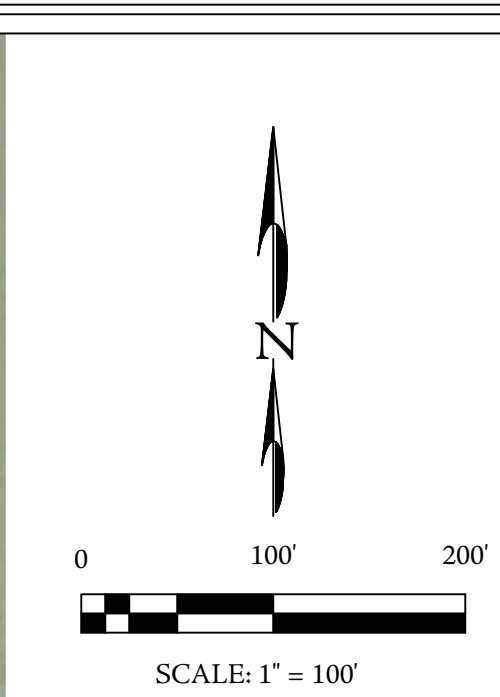
R:\2024\240032 COLBERT WATER & SEWER UPGRADES ON RESERVATION\7.0 CAD\BASE PLAN\IFDC CONSTRUCTION DRAWINGS\OVERALL SITE PLAN.DWG



C-4 OVERALL SITE PLAN

Scale: 1"=100'

LEGEND	
SYMBOL	DESCRIPTION
FM	FM01, FM02, & FM03 FORCEMAINS. (OUTSIDE OF THIS CONTRACT)
SS	GRAVITY SEWER (OUTSIDE OF THIS CONTRACT)
FM	EXISTING 4" FORCEMAIN
SS	PROPOSED SDR26 GREEN PVC GRAVITY SEWER
FM	PROPOSED DISCHARGE FORCEMAIN
	48"Ø SANITARY SEWER MANHOLE (OUTSIDE OF THIS CONTRACT)
	EXISTING SANITARY SEWER MANHOLE
PS	PROPOSED SEWER LIFT STATION
PS	EXISTING IFDC SEWER LIFT STATION
W	EXISTING WATER MAIN
W	ALTERNATE BID No. 1: REQ'D 3/4" PEX WATER SERVICE MAIN TO LIFT STATION



REVISIONS	
DESCRIPTION	DATE
#	BY
1	
2	
3	
4	
5	
6	

OVERALL SITE PLAN

SAN. SEWER LIFT STATION IMPROVEMENTS

CITY OF SHEFFIELD

COLBERT COUNTY COMMISSION

COLBERT COUNTY, ALABAMA

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1"

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C-4



9/15/2026 9:29:49 AM
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- NOTES:**
- CONTRACTOR SHALL MAINTAIN SANITARY SEWER SERVICE TO CUSTOMERS SERVED BY THE PUMP STATION THROUGHOUT THE CONSTRUCTION PERIOD.
 - PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD VERIFY LOCATION & ELEVATION OF EXISTING FORCEMAINS & SEWER LATERALS AND ALERT ENGINEER TO ANY DISCREPANCIES ON THE PLANS.
 - IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
 - CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AND LOCATIONS PRIOR TO SUBMITTING FORMAL EQUIPMENT SUBMITTALS FOR APPROVAL. ANY DIMENSION FOUND TO BE DIFFERENT FROM THESE PLANS SHALL BE NOTED ON THE CONTRACTOR'S EQUIPMENT SUBMITTAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLISHING ALL EXISTING ELECTRICAL INFRASTRUCTURE AT THE EXISTING PUMP STATION SITE.
 - ELECTRICAL, INSTRUMENTATION, AND SCADA/RTU SYSTEM DESIGN SHOWN ON THESE PLANS IS CONCEPTUAL/SCHEMATIC ONLY AND IS PROVIDED FOR BIDDING AND COORDINATION PURPOSES. FINAL ELECTRICAL DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO EQUIPMENT PROCUREMENT AND INSTALLATION.
 - ALL ELECTRICAL DESIGN DOCUMENTS SHALL BE PREPARED, SIGNED, AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF ALABAMA. CONTRACTOR SHALL SUBMIT A COMPLETE ELECTRICAL SUBMITTAL PACKAGE (SINGLE LINE DIAGRAM(S), PANEL SCHEDULES, SCADA RTU POINT LIST, AND PRODUCT DATA/SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT) FOR ENGINEER REVIEW PRIOR TO PROCUREMENT.

- CONSTRUCTION NOTES:**
- A. PUMP STATION CONTRACTOR SHALL COORDINATE WITH GRAVITY SEWER CONTRACTOR FOR CONNECTION OF PROPOSED 10" SDR26 GRAVITY SEWER TO MANHOLE [MH-01 / STA 0+63]. MANHOLE AND ALL GRAVITY SEWER UPSTREAM OF THIS POINT ARE BY OTHERS AND NOT INCLUDED IN THIS CONTRACT. PUMP STATION CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE, FITTINGS, AND A WATERTIGHT FLEXIBLE CONNECTION (BOOT/COUPLING) REQUIRED TO CONNECT TO THE MANHOLE AT THE INVERT ELEVATION SHOWN ON THE GRAVITY SEWER CONTRACT PLANS AND SPECIFIED ON THIS SHEET. PUMP STATION CONTRACTOR SHALL NOTIFY GRAVITY SEWER CONTRACTOR AND ENGINEER A MINIMUM OF 2 DAYS PRIOR TO MAKING THE CONNECTION, AND SHALL FIELD VERIFY MANHOLE LOCATION, INVERT ELEVATION, AND CONDITION PRIOR TO CONSTRUCTION. CONNECTION SHALL BE LEAKAGE-TESTED PER SPECIFICATIONS AS PART OF THIS CONTRACT.

ADDITIVE ALT. #1:
REQ'D 1,045 LF OF 3/4" POTABLE WATER PEX SERVICE LINE. SEE SHT. C-4 FOR TAP LOCATION ON EXISTING 6" DI WATER MAIN

PROPOSED 10" SDR26 GRAVITY SEWER. (NOT INCLUDED IN THIS CONTRACT)

MH01 (BY OTHERS)
STA: 0+62.97
DIAMETER: 48"
RIM: 527.97
INV IN:515.31 10" PVC (BY OTHERS)
INV OUT:515.11 10" PVC (BY PUMP STATION CONTRACTOR)

CONTRACTOR TO VERIFY ALL INCOMING GRAVITY SEWER MAINS TO THE EXISTING WETWELL AND PROVIDE TO THE ENGINEER DURING THE SUBMITTAL PROCESS. ELEVATIONS OF PROPOSED 18" PVC MAIN MAY BE ADJUSTED PER FIELD INVESTIGATION FINDINGS OF EXISTING INFLUENT GRAVITY SEWER MAINS.

FURNISH AND INSTALL NEW 6' PRECAST WETWELL TOP W/ 48" MANHOLE COVER FOR WETWELL ACCESS. CONFIRM SIZE OF EXISTING WETWELL DURING SUBMITTAL PROCESS AND PROVIDE TO ENGINEER.

CONTRACTOR TO INSTALL NEW 18" SDR26 PVC GRAVITY MAIN FROM EXISTING WETWELL TO PROPOSED WETWELL. APPROXIMATE INVERT ELEVATION OF NEW SEWER MAIN IS 509.05. FURNISH AND INSTALL ALL REQ'D MATERIALS FOR A FUNCTIONAL CONNECTION TO THE WETWELL, INCLUDING, BUT NOT LIMITED TO, RUBBER BOOT SEAL, EPOXY GROUT, AND ANY REQ'D FITTINGS.

REQ'D: 101 L.F. OF 18" SDR 26 PVC @ 0.5%

FURNISH & INSTALL:
1-4" 45" DI BEND, MJ X MJ
1-CONC. KICKER

REQ'D 116± LF OF 4" SDR21 PVC FORCEMAIN
REQ'D 20 LF OF 8" STEEL CASING PIPE W/ CASING SPACERS & END SEALS BENEATH EXISTING ACCESS ROAD

REQ'D POWER SERVICE POLE (BY CONTRACTOR). LOCATION SHOWN AS REFERENCE ONLY AND SHALL BE CONFIRMED WITH THE POWER COMPANY.

REQ'D ELECTRICAL EQUIPMENT RACK & PAD

REQ'D 4.0' MANGATE. OPEN OUTWARDS

PROVIDE STONE PAD IN FRONT OF MANGATE

REQ'D (2)-6' WIDE CHAIN LINK GATES. OPEN OUTWARDS

REQ'D 12.0' GRAVEL DRIVE CONNECTING TO EXISTING GRAVEL ACCESS RD

BYPASS PUMP DISCHARGE. SEE SHT. C-9 FOR DETAILS

PARCEL: 0707250001001003
OWNER: MUSCLE SHOALS HOLDINGS LLC

CONTRACTOR TO CLEAR AND GRUB EXISTING TREES AND VEGETATION AS NEEDED FOR INSTALLATION OF THE PROPOSED LIFT STATION.

ADDITIVE ALT. #1:
REQ'D 3/4" BADGER WATER METER, CURB STOP, BACKFLOW PREVENTER, METER BOX, & FROST PROOF YARD HYDRANT

CONNECT PROPOSED INFLUENT GRAVITY SEWER TO NEW WETWELL. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQ'D MATERIALS FOR A FUNCTIONAL CONNECTION TO THE WETWELL, INCLUDING, BUT NOT LIMITED TO, RUBBER BOOT SEAL, EPOXY GROUT, AND ANY REQ'D FITTINGS.

REQ'D MANWAY ACCESS. CONTRACTOR TO CONFIRM MANWAY LOCATION WITH PACKAGE LIFT STATION SHOP DRAWINGS

PROPOSED PACKAGE LIFT STATION

REQ'D 12.0'X10.0' CONCRETE TOP SLAB. PAD SIZE SHOWN IS REPRESENTATIVE AND SHALL BE SIZED PER FINAL DIMENSIONS OF PROPOSED PACKAGE LIFT STATION ENCLOSURE.

CONTRACTOR TO FURNISH AND INSTALL NEW 8.0' PRECAST CONCRETE WETWELL. SEE SHT. C-6 FOR DETAILS.
WW TOP SLAB: 525.50
WW INV: 505.65
SS INV IN NW: 508.55
SS INV IN NE: 514.48

REQ'D NEW 180 LF OF 6' SECURITY FENCE W/ BLACK PRIVACY SLATS. SEE SHEET C-8 & C-9 FOR DETAILS.

CONTRACTOR SHALL CLEAR, GRUB, & GRADE EXISTING SITE TO PROVIDE POSITIVE DRAINAGE. FURNISH AND INSTALL APPROXIMATELY 298 SY OF 6" THICK #57 STONE W/ GEOTEXTILE FABRIC FOR SITE AND DRIVE

PARCEL: 0707250001001008
OWNER: UNITED STATES GOVERNMENT

IFDC PUMP STATION SITE PLAN

SCALE: 1/8" = 1'

C-5

PUMP STATION SITE PLAN

Scale: 1/8" = 1'

REVISIONS		DATE	BY
DESCRIPTION			
#		1	
		2	
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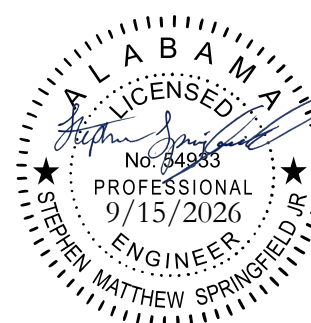
PUMP STATION SITE PLAN
SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
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SHEET NO.
C-5



GENERAL NOTES:

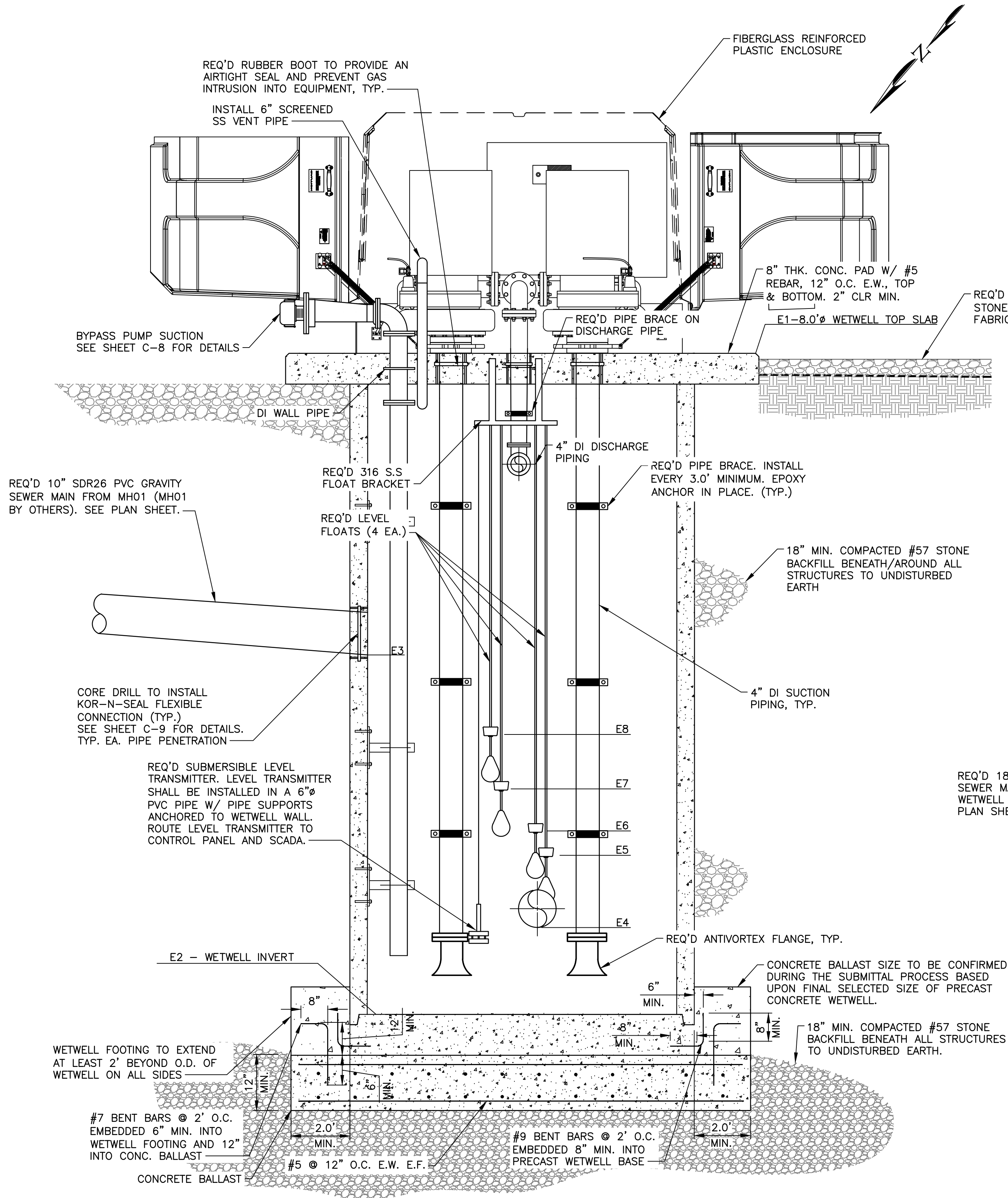
- CONTRACTOR SHALL USE CONCRETE KICKERS AT ALL DIRECTION CHANGES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING ALL COMPONENTS OF THE NEW PRECAST CONCRETE WETWELL, INCLUDING ALL CONCRETE DIMENSIONS, REINFORCING STEEL, LOCATIONS, ELEVATIONS, AND SIZES OF ALL PIPE PENETRATIONS; DIMENSIONS AND REINFORCEMENT OF THE ACCESS HATCH OPENING; WETWELL COATINGS; JOINT DETAILS; ETC.
- CONTRACTOR SHALL PROVIDE A MINIMUM CLEAR DISTANCE OF 12" FROM ALL FLANGES, VALVES, NUTS, BOLTS, ETC. FROM THE BOTTOM/SIDES OF WETWELL.
- EXTERIOR OF ALL CONCRETE STRUCTURES SHALL BE PAINTED WITH TWO COATS OF BITUMASTIC APPLIED AT RIGHT ANGLES.
- APPLY ONE COAT OF XYPEX CONCENTRATION AND ONE COAT OF XYPEX MODIFIED TO ALL INTERIOR CONCRETE SURFACES.
- ALL STATION PIPING AND DISCHARGE PIPING TO BE 125# FLANGED CLASS 350 DUCTILE IRON (D.I.). PIPING EXTERNAL TO THE STATION MUST BE INDEPENDENTLY SUPPORTED.
- SERIES 316 STAINLESS STEEL SHALL BE USED IN THE WETWELL AND PACKAGE STATION FOR FLANGE, BOLTS, BRACKETS, GUIDE RAILS, AND OTHER HARDWARE.
- NEW CONCRETE STRUCTURES ARE TO BE PRECAST TO MEET ASTM C-478 REQUIREMENTS. CONCRETE TO BE 4,000 PSI IN 28 DAYS WITH REINFORCING TO MEET AN AASHTO HS 20-44 LOADING. REINFORCING STEEL PER ASTM A-615, GRADE 60. ALL PIPE PENETRATIONS TO BE SEALED WITH A LINK SEAL MODULAR SEAL, A CAST IN KOR-N-SEAL FLEXIBLE PIPE CONNECTOR, OR APPROVED EQUAL.

GENERAL NOTES CONT.:

- THE TOP SLAB OF THE LIFT STATION SHALL WITHSTAND A MINIMUM PRESSURE LOADING OF 100 PSF.
- ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- COMPACTION DENSITY FOR MATERIAL PLACED BENEATH THE CONCRETE STRUCTURES SHALL BE A MINIMUM OF 98% SPD. TEST REPORTS SHALL BE FURNISHED TO ENGINEER PRIOR TO ACCEPTANCE.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- ALL WORK, EQUIPMENT, AND MATERIALS SHALL COMPLY WITH THE CONTRACT DOCUMENTS..
- CONTRACTOR TO FIELD LOCATE EXISTING FORCE MAINS AND SEWER MAINS AND OBTAIN ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
- CONTRACTOR TO CONNECT 125# FLANGES FROM MANUFACTURER FOR ALL SUCTION AND DISCHARGE CONNECTIONS.
- CONTRACTOR SHALL COORDINATE THE FABRICATION OF PRECAST STRUCTURES WITH THE EQUIPMENT SUPPLIER TO ENSURE PROPER STRUCTURAL TOP SLAB OPENINGS, SPACING, AND RELATED DIMENSIONS FOR THE SELECTED EQUIPMENT COVERS AND FRAMES.
- CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL LIFT STATION.

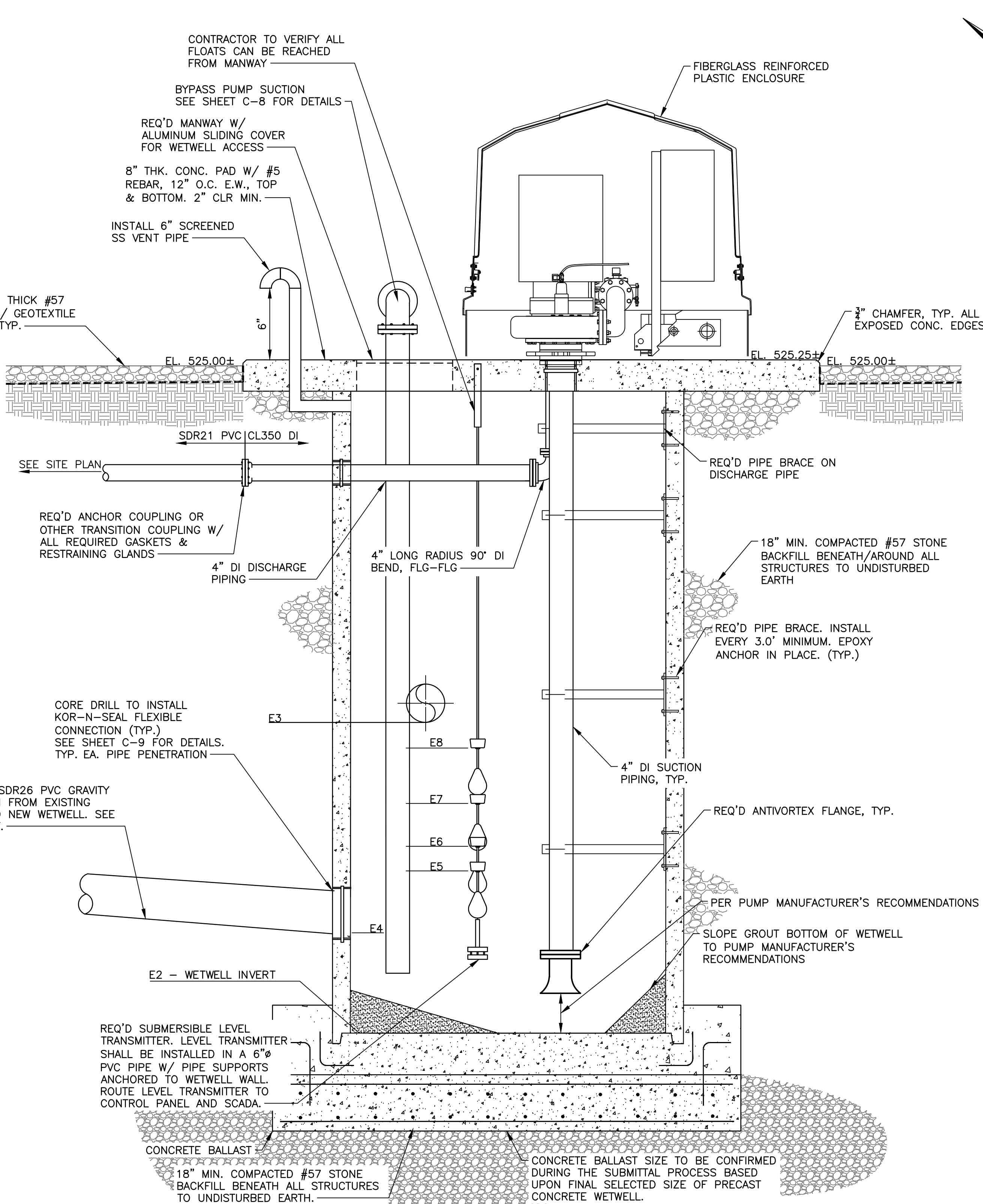
ELEVATION TABLE

WETWELL	
E1 - 8.0'Ø WETWELL TOP SLAB	525.25±
E2 - 8.0'Ø WETWELL INVERT	505.65±
E3 - 10" SDR26 PVC INV.	514.48±
E4 - 18" SDR26 PVC INV.	508.55±
LEVEL CONTROLS	
E5 - PUMPS OFF	508.00
E6 - LEAD PUMP ON	511.00
E7 - LAG PUMP ON	514.00
E8 - HIGH WATER ALARM	515.00



ELEVATION VIEW

FACING SOUTHEAST



ELEVATION VIEW

FACING NORTHEAST

C-6

PUMP STATION DETAILS

Scale: NTS

PUMP STATION DETAILS

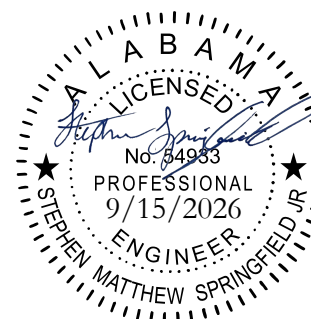
SAN. SEWER LIFT STATION IMPROVEMENTS
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COLBERT COUNTY, ALABAMA

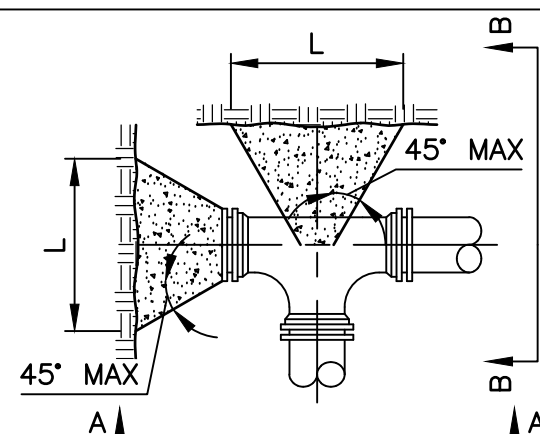
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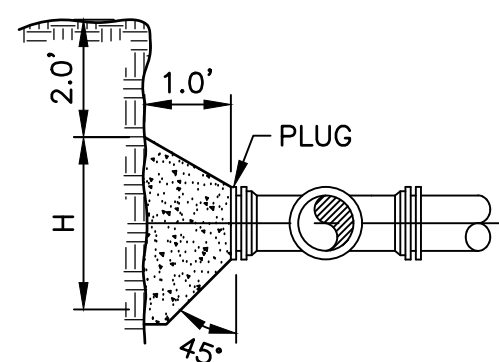
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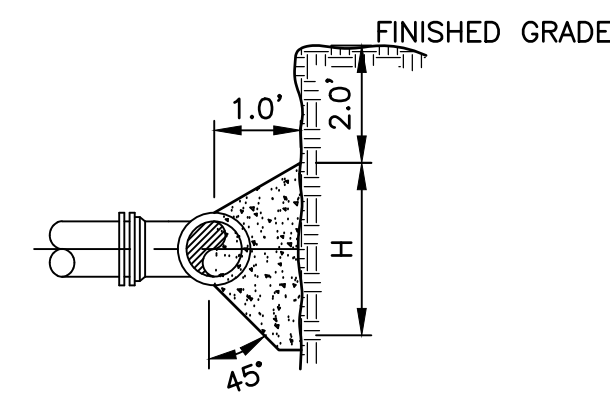




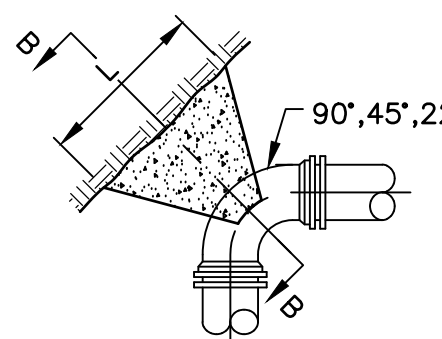
PLAN VIEW



SECTION A-A



SECTION B-B



PLAN

01

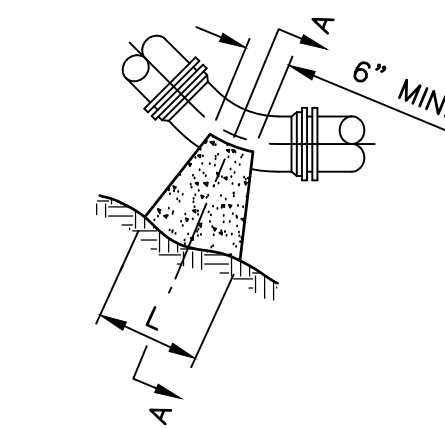
THRUST BLOCK DETAILS

SCALE: N.T.S.

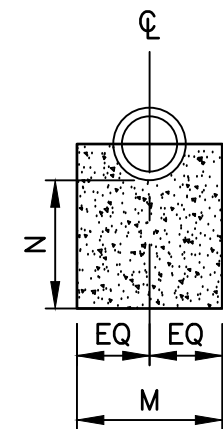
MINIMUM CONCRETE THRUST BLOCK DIMENSIONS				
PIPE DIA. (INCHES)	DEGREE OF BEND	L (FT.)	H (FT.)	
6"	90°	2.5	2.0	
	45°	2.5	1.0	
	22 1/2°	1.5	1.0	
	11 1/4°	1.5	1.0	
	TEE/PLUG	2.5	2.0	
8"	90°	4.0	2.0	
	45°	2.5	2.0	
	22 1/2°	2.5	1.0	
	11 1/4°	2.0	1.0	
	TEE/PLUG	4.0	2.0	
12"	90°	5.0	4.0	
	45°	4.0	2.5	
	22 1/2°	2.5	1.0	
	11 1/4°	2.0	1.5	
	TEE/PLUG	5.0	4.0	

NOTES:

- CONCRETE SHALL HAVE 4,000 PSI STRENGTH AT 28 DAYS.
- THE VALUES IN THE TABLE ARE BASED ON 2,000 PSF SOIL BEARING CAPACITY AND 150 PSI WORKING PRESSURE.
- THRUST BLOCK DESIGN FOR OTHER DESIGN CIRCUMSTANCES OR PIPE LARGER THAN 12" SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY THE ENGINEER.
- HEIGHT OF CONCRETE THRUST BLOCK ABOVE THE PIPE CENTERLINE IS 1/2 THE H DIMENSION.
- PROVIDE A 10 MIL PLASTIC BARRIER BETWEEN CONCRETE AND PIPE. OBTAIN INSPECTOR'S APPROVAL PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE FOR THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.



ELEVATION



SECTION A-A

MINIMUM CONCRETE THRUST BLOCK DIMENSIONS				
PIPE DIA. (INCHES)	DEGREE OF BEND	L	M	N
3"	45°	10"	1'-0"	8"
	22 1/2°	6"	1'-0"	8"
	11 1/4°	6"	1'-0"	8"
4"	45°	1'-0"	1'-0"	8"
	22 1/2°	8"	1'-0"	8"
	11 1/4°	6"	1'-0"	8"
6"	45°	1'-2"	1'-2"	8"
	22 1/2°	10"	1'-2"	8"
	11 1/4°	6"	1'-2"	8"
8"	45°	1'-9"	1'-4"	8"
	22 1/2°	11"	1'-2"	8"
	11 1/4°	8"	1'-4"	8"
10"	45°	2'-5"	1'-6"	1'-0"
	22 1/2°	1'-3"	1'-4"	9"
	11 1/4°	8"	1'-6"	8"
12"	45°	2'-8"	2'-0"	1'-2"
	22 1/2°	1'-4"	1'-6"	9"
	11 1/4°	8"	2'-0"	8"

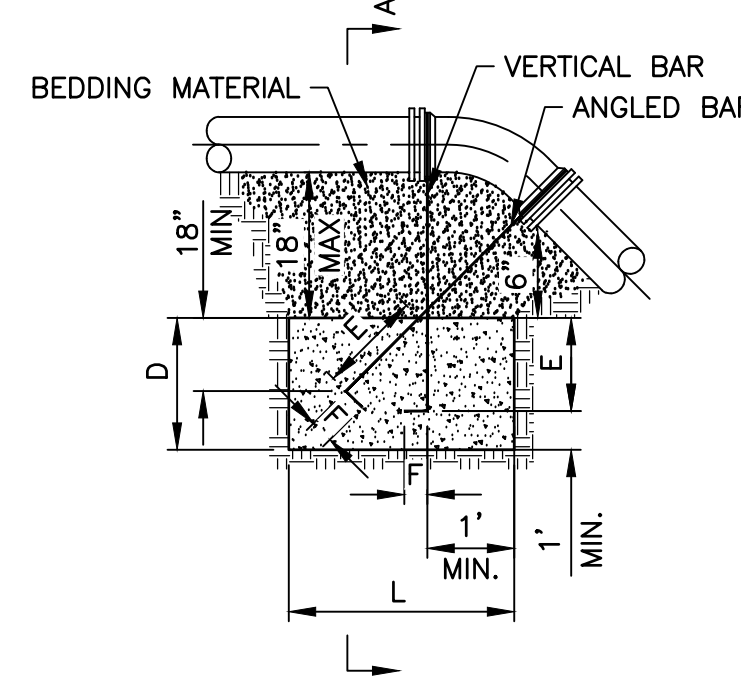
NOTES:

- CONCRETE SHALL HAVE 4,000 PSI STRENGTH AT 28 DAYS.
- THE VALUES IN THE TABLE ARE BASED ON 2,000 PSF SOIL BEARING CAPACITY AND 150 PSI WORKING PRESSURE.
- THRUST BLOCK DESIGN FOR OTHER DESIGN CIRCUMSTANCES OR PIPE LARGER THAN 12" SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY THE ENGINEER.
- PROVIDE A 10 MIL PLASTIC BARRIER BETWEEN CONCRETE AND PIPE. OBTAIN INSPECTOR'S APPROVAL PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE FOR THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.

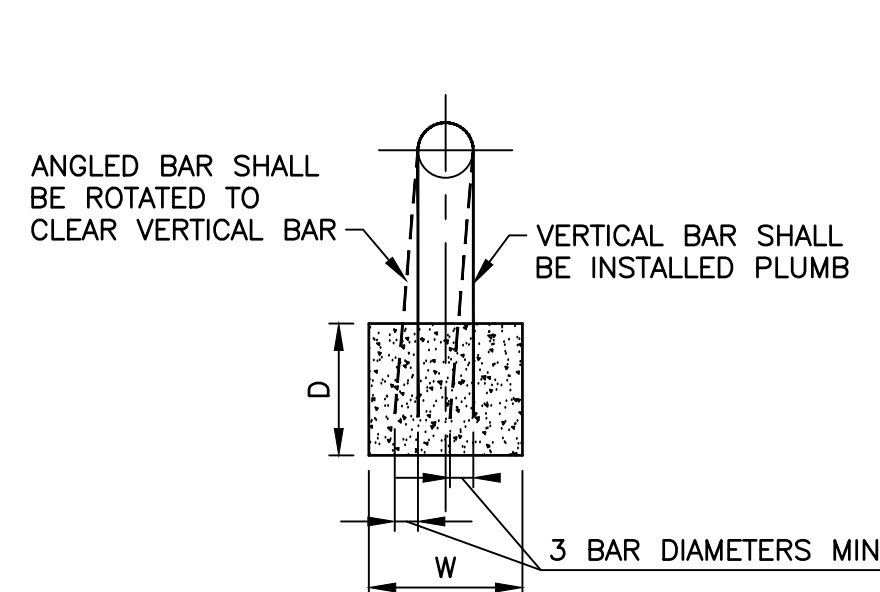
02

THRUST BLOCK DETAILS (LOWER VERTICAL FITTINGS)

SCALE: N.T.S.



ELEVATION



SECTION A-A

MINIMUM CONCRETE THRUST BLOCK DIMENSIONS							
PIPE DIA. (INCHES)	DEGREE OF BEND	L	W	D	E	F	REINF. BARS
3"	45°	2'-0"	2'-0"	1'-6"	1'-0"	6"	#7
	22 1/2°	1'-6"	1'-6"	1'-6"	1'-0"	6"	#7
	11 1/4°	1'-6"	1'-6"	1'-6"	1'-0"	6"	#7
4"	45°	2'-6"	2'-6"	2'-0"	1'-0"	6"	#7
	22 1/2°	2'-0"	2'-0"	1'-6"	1'-0"	6"	#7
	11 1/4°	1'-6"	1'-6"	1'-6"	1'-0"	6"	#7
6"	45°	3'-0"	3'-0"	2'-0"	1'-0"	9"	#7
	22 1/2°	2'-6"	2'-6"	2'-6"	1'-0"	6"	#7
	11 1/4°	2'-0"	2'-0"	1'-6"	1'-0"	6"	#7
8"	45°	3'-6"	3'-6"	2'-6"	1'-3"	10"	#8
	22 1/2°	2'-9"	2'-9"	2'-3"	1'-3"	9"	#8
	11 1/4°	2'-0"	2'-0"	2'-0"	1'-3"	6"	#8
10"	45°	4'-0"	4'-0"	2'-9"	1'-4"	11"	#8
	22 1/2°	3'-6"	3'-6"	2'-3"	1'-4"	10"	#8
	11 1/4°	2'-3"	2'-3"	2'-0"	1'-4"	8"	#8
12"	45°	4'-6"	4'-6"	3'-0"	1'-5"	1'-0"	#8
	22 1/2°	4'-0"	4'-0"	2'-6"	1'-5"	10"	#8
	11 1/4°	2'-6"	2'-6"	2'-3"	1'-5"	9"	#8

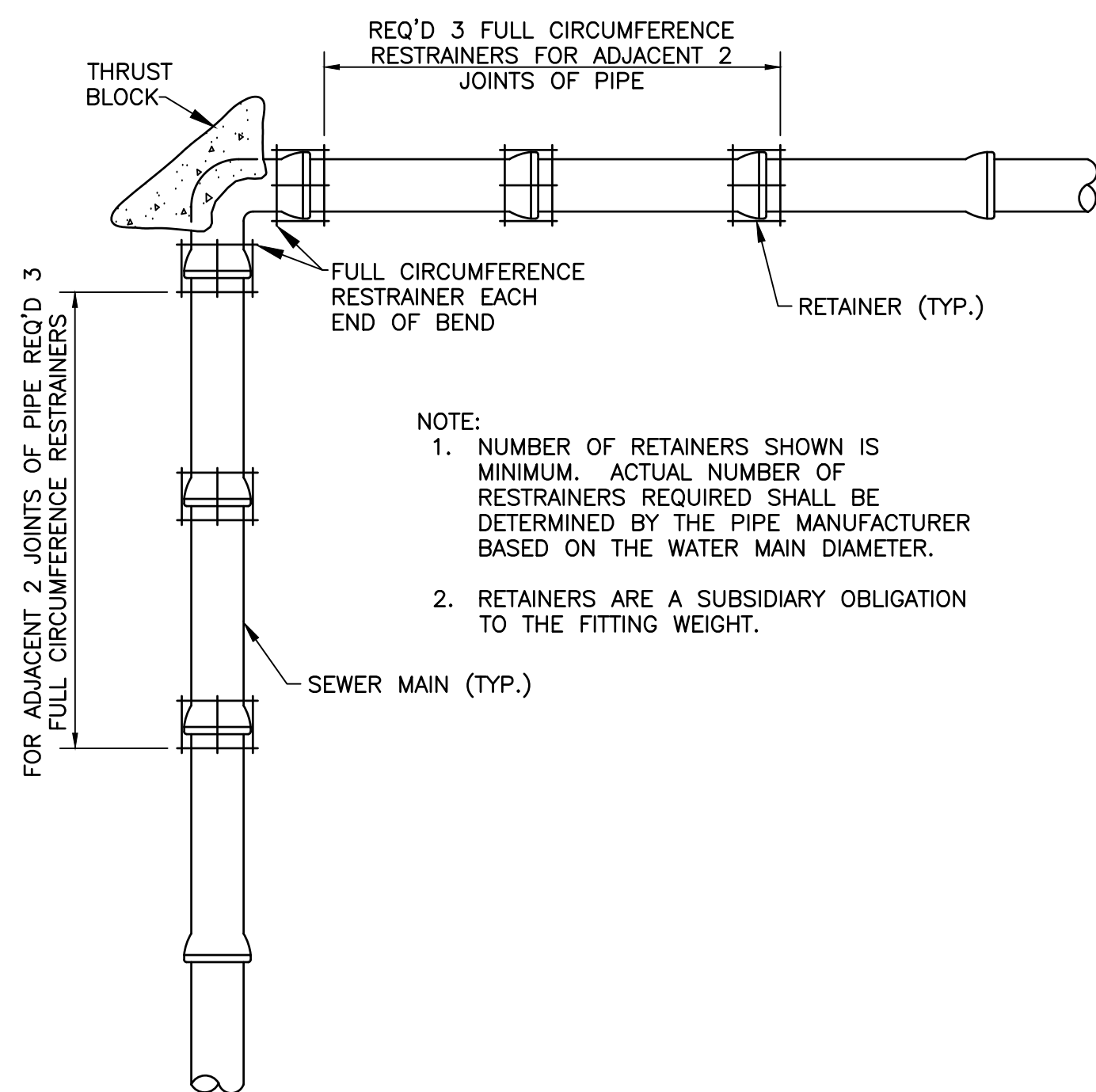
NOTES:

- CONCRETE SHALL HAVE 4,000 PSI STRENGTH AT 28 DAYS.
- THE VALUES IN THE TABLE ARE BASED ON 2,000 PSF SOIL BEARING CAPACITY AND 150 PSI WORKING PRESSURE.
- THRUST BLOCK DESIGN FOR OTHER DESIGN CIRCUMSTANCES OR PIPE LARGER THAN 12" SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY THE ENGINEER.
- PROVIDE A 10 MIL PLASTIC BARRIER BETWEEN CONCRETE AND PIPE. OBTAIN INSPECTOR'S APPROVAL PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE FOR THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.
- 3" MINIMUM COVER OVER ALL BARS.

03

THRUST BLOCK DETAILS (UPPER VERTICAL FITTINGS)

SCALE: N.T.S.



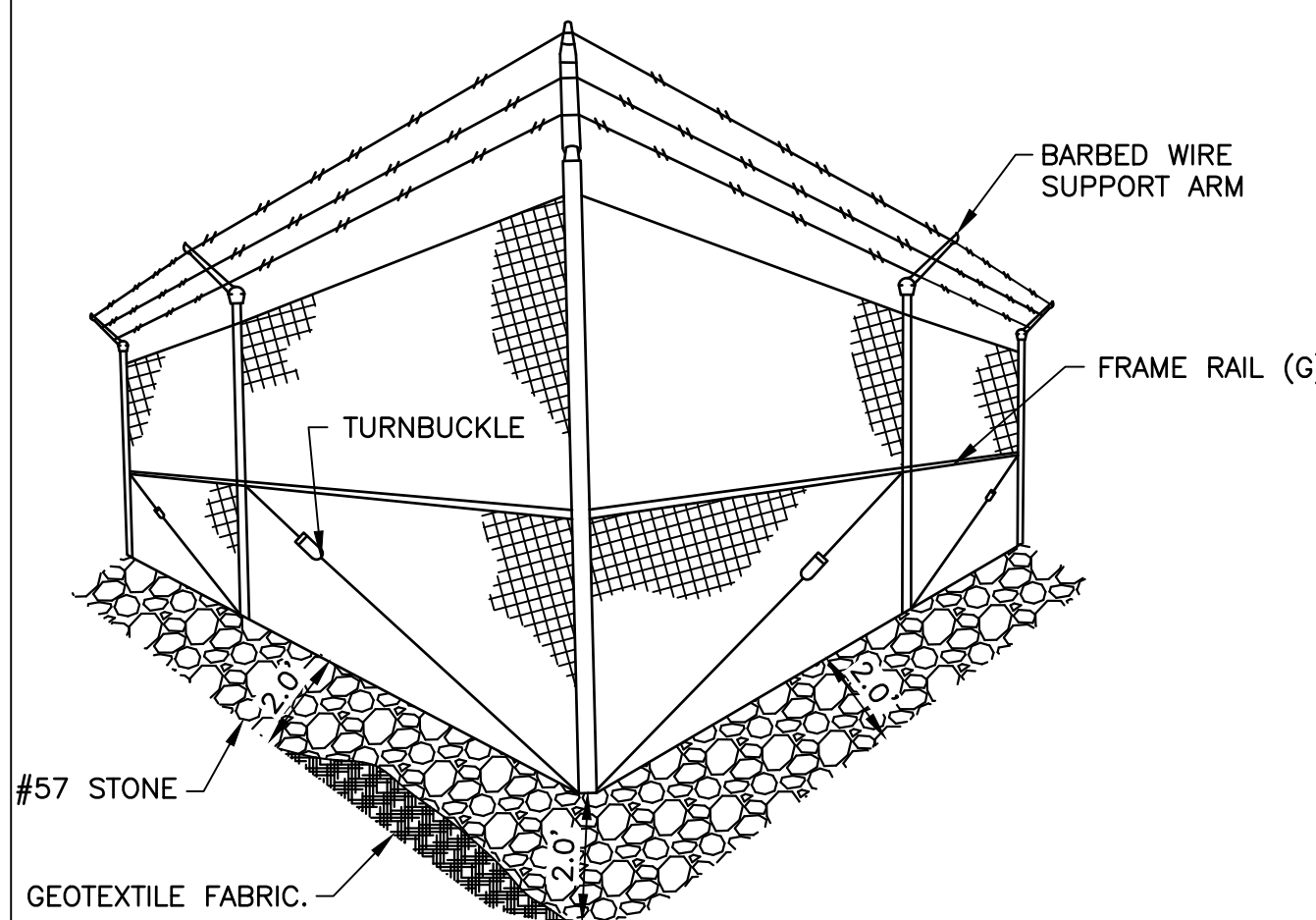
04

DETAIL OF RESTRAINERS AT ALL BENDS

SCALE: N.T.S.

NOTE:

- NUMBER OF RETAINERS SHOWN IS MINIMUM. ACTUAL NUMBER OF RESTRAINERS REQUIRED SHALL BE DETERMINED BY THE PIPE MANUFACTURER BASED ON THE WATER MAIN DIAMETER.
- RETAINERS ARE A SUBSIDIARY OBLIGATION TO THE FITTING WEIGHT.



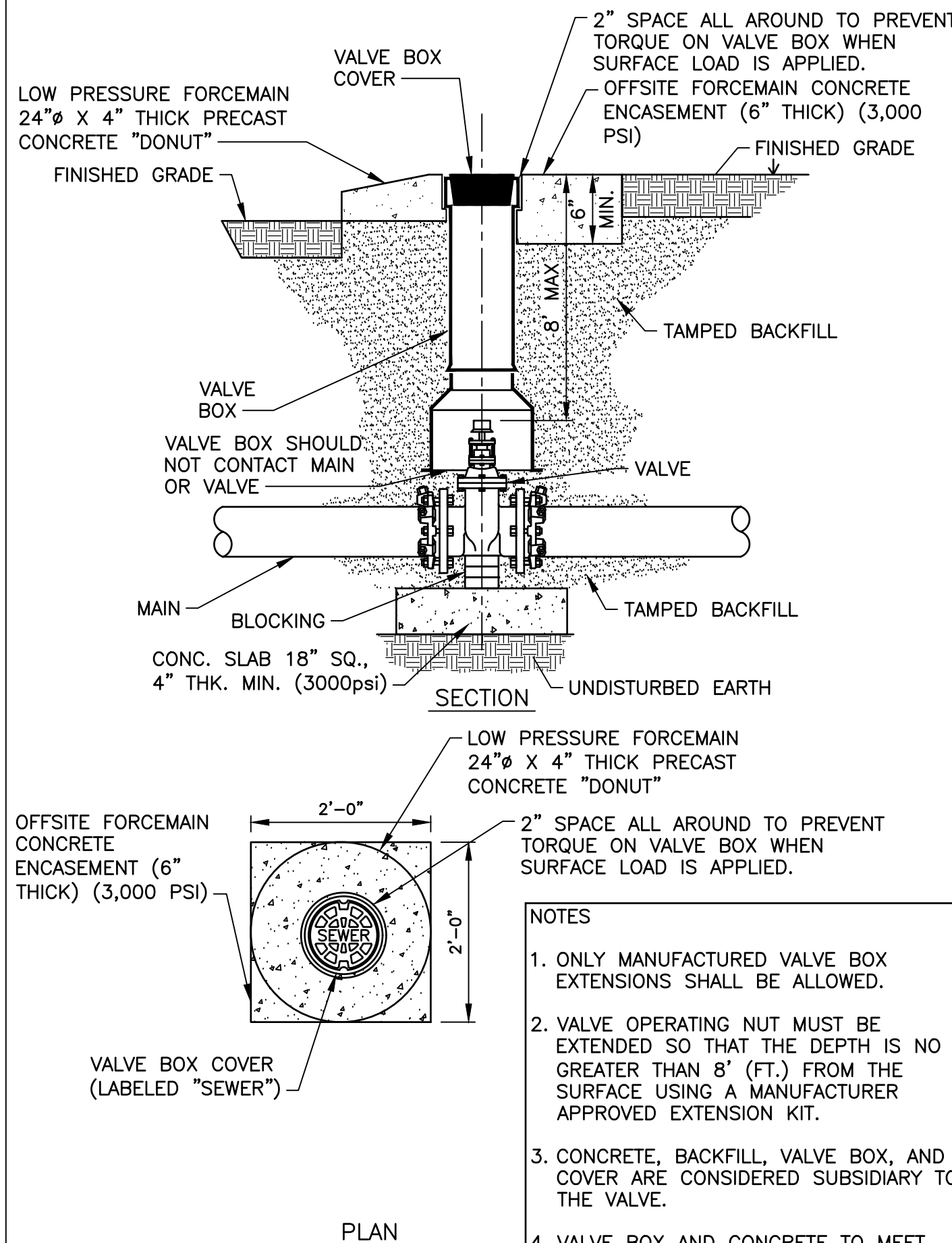
NOTES:

- REQ'D 6" #57 STONE (MIN.) OVER GEOTEXTILE FABRIC, STONE AND FABRIC TO BE INSTALLED TO A POINT 2'-0" BEYOND FENCED IN AREA

05

SITE STONE & FABRIC DETAIL

SCALE: N.T.S.



PLAN

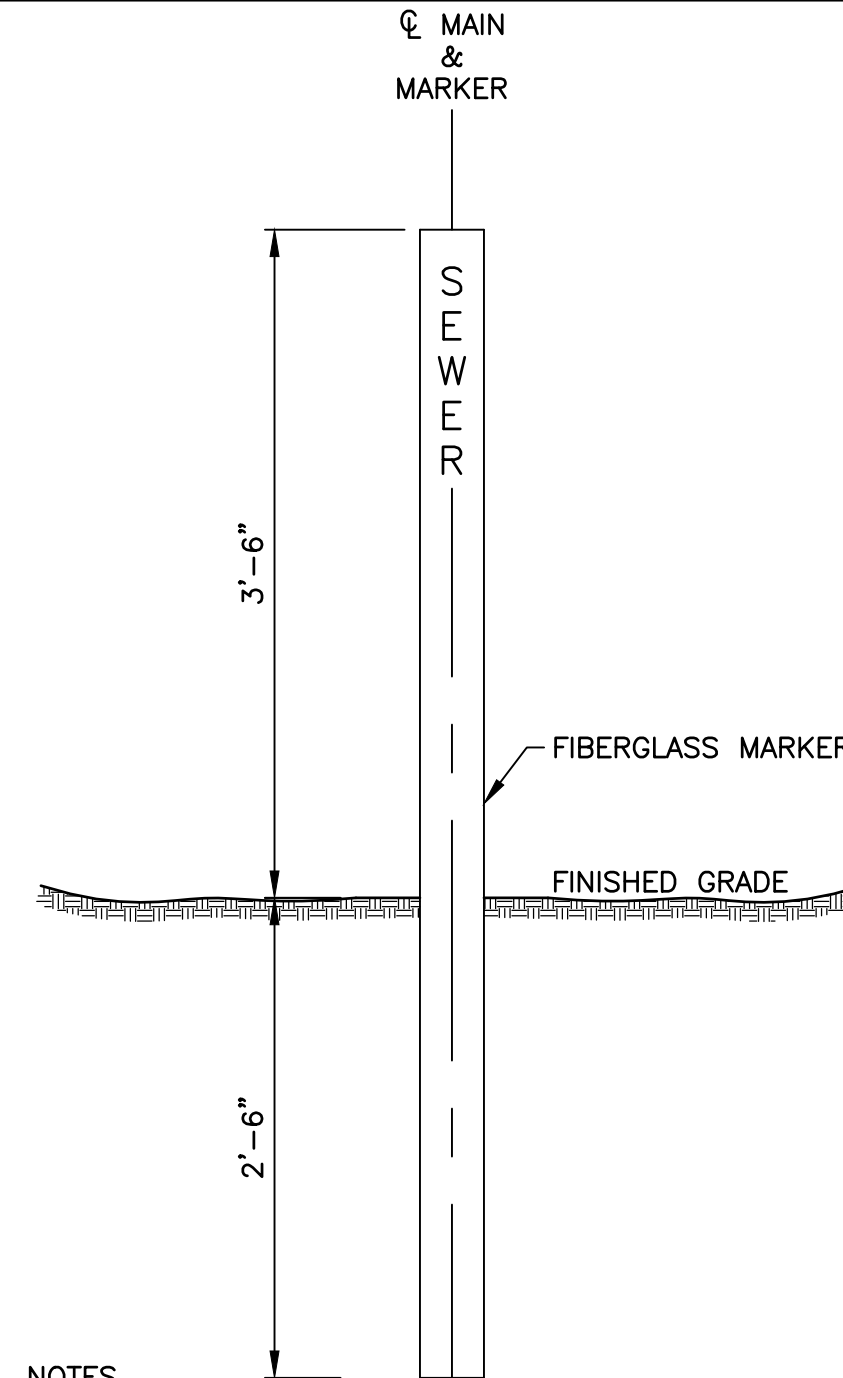
NOTES

- ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
- VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 8' (FT.) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
- CONCRETE, BACKFILL, VALVE BOX, AND COVER ARE CONSIDERED SUBSIDIARY TO THE VALVE.
- VALVE BOX AND CONCRETE TO MEET HS-20 LOAD RESTRICTION.

06

VALVE BOX DETAIL

SCALE: N.T.S.



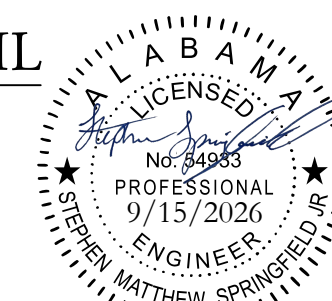
NOTES

- SANITARY SEWER MARKER TO BE GREEN IN COLOR.
- SANITARY SEWER MARKER TO BE LABELED "SEWER".
- MARKERS TO BE SPACED ALONG CENTERLINE OF MAIN EVERY 400 FEET AND AT ALL VALVES, FITTINGS, AND CHANGES OF DIRECTION OF PIPE.
- MARKERS TO BE FIBERGLASS AND MANUFACTURED BY CARSONITE, H & 2 INDUSTRIES, OR APPROVED EQUAL.
- MARKERS ARE CONSIDERED SUBSIDIARY TO THE PIPE.

07

VALVE MARKER DETAIL

SCALE: N.T.S.



MISCELLANEOUS DETAILS

SAN. SEWER LIFT STATION IMPROVEMENTS

CITY OF SHEFFIELD

COLBERT COUNTY COMMISSION

COLBERT COUNTY, ALABAMA

THE KELLEY GROUP

A CIVIL ENGINEERING COMPANY

301 N. Dickson St.,
Tusculum, Alabama 35424

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR ≠ 1 INCH.

PROJECT NO.: 24-0032A
DRAWN BY: SMS
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 09/2026

SHEET NO.
C-7



1. ALL FENCING AND GATES TO BE BLACK PVC COATED.
2. ALL FENCING AND GATES TO HAVE BLACK PRIVACY SLATS.
3. ALL FENCING AND GATES TO HAVE 3 STRAND BARBED WIRE.
4. WHEN FENCES ARE INSTALLED ADJACENT TO CORNER OR END PANES, INSTALL RODS AS IN PULL POST ASSEMBLIES.
5. ALL POSTS ARE SET IN CONCRETE 6" FROM TOTAL DEPTH.
6. CONTRACTOR TO PROVIDE FENCE SUBMITTAL TO ENGINEER FOR APPROVAL.

INVENTORY		
#	DESCRIPTION	DATE
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MISCELLANEOUS DETAILS
SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

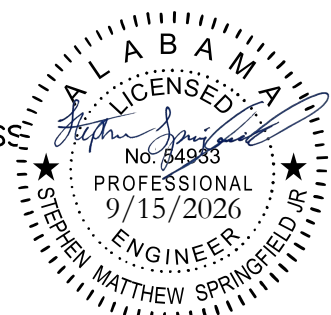
THE KELLEY GROUP
▪ A CIVIL ENGINEERING COMPANY ▪

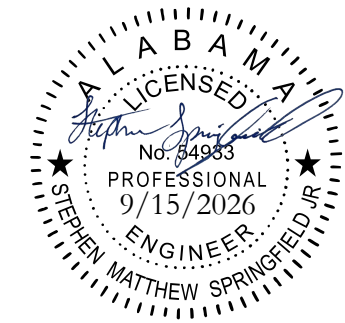
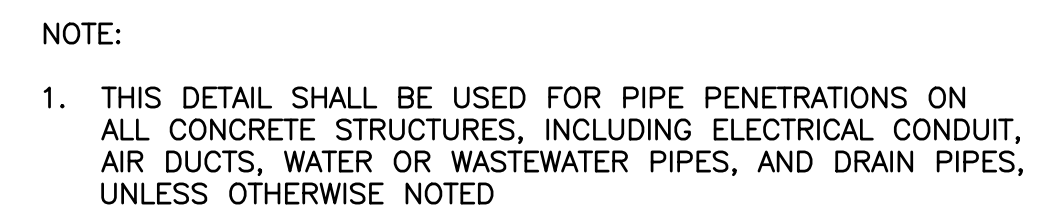
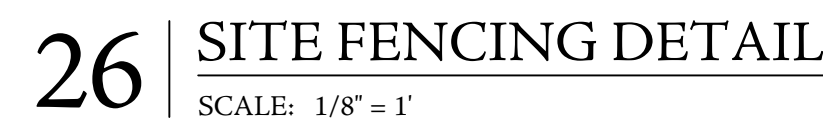
500 Corporate Park, Suite 100
Birmingham, Alabama 35242
Tuscumbia, AL 35674

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ORIGINAL DRAWING
ADJUST SCALE IF THE
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CHECKED BY: BWT
SCALE: AS NOTED
DATE: 09/2026

EET NO.
C-8



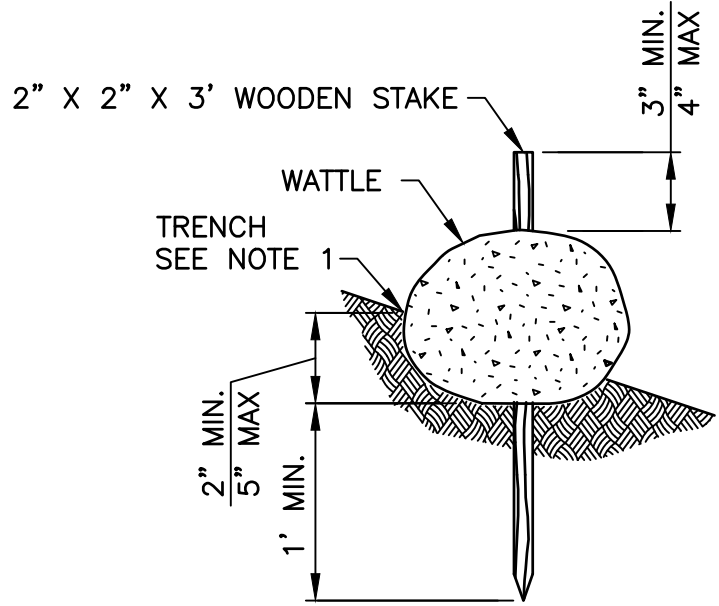


MISCELLANEOUS DETAILS
SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

REVISIONS			
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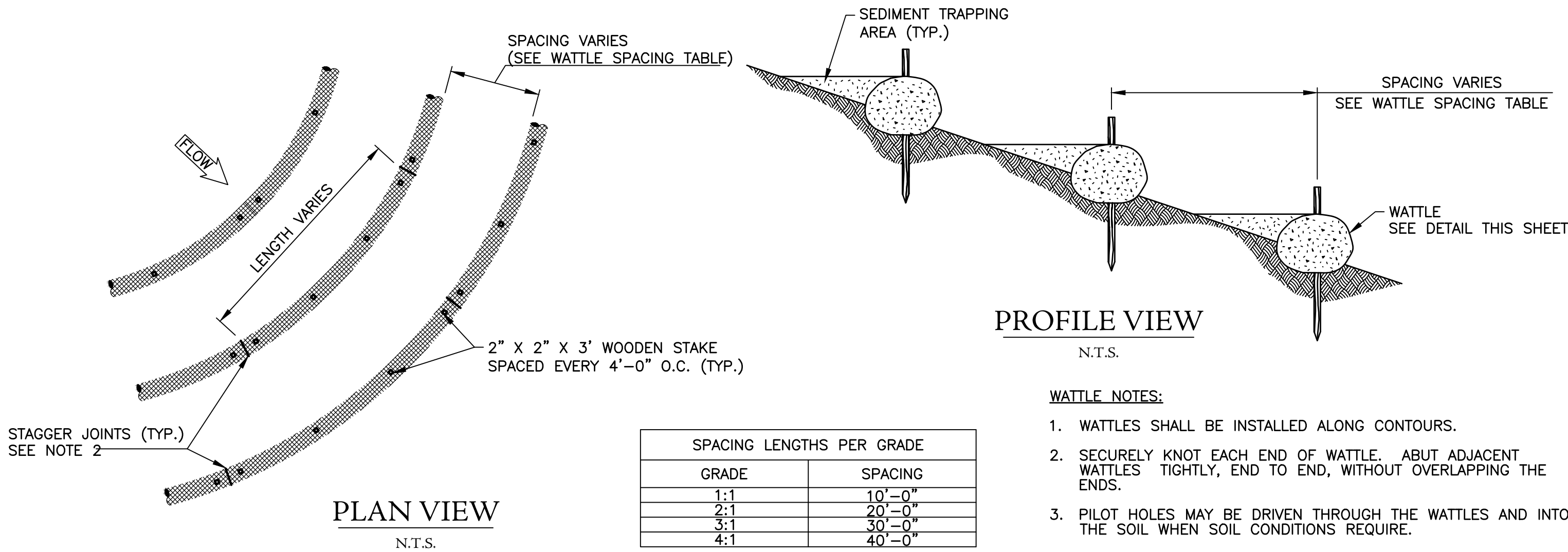
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RA:2024\240032 COLBERT WATER & SEWER UPGRADES ON RESERVATION\7.0 CAD\BASE PLAN\JEDAC CONSTRUCTION DRAWINGS\DT06.DWG



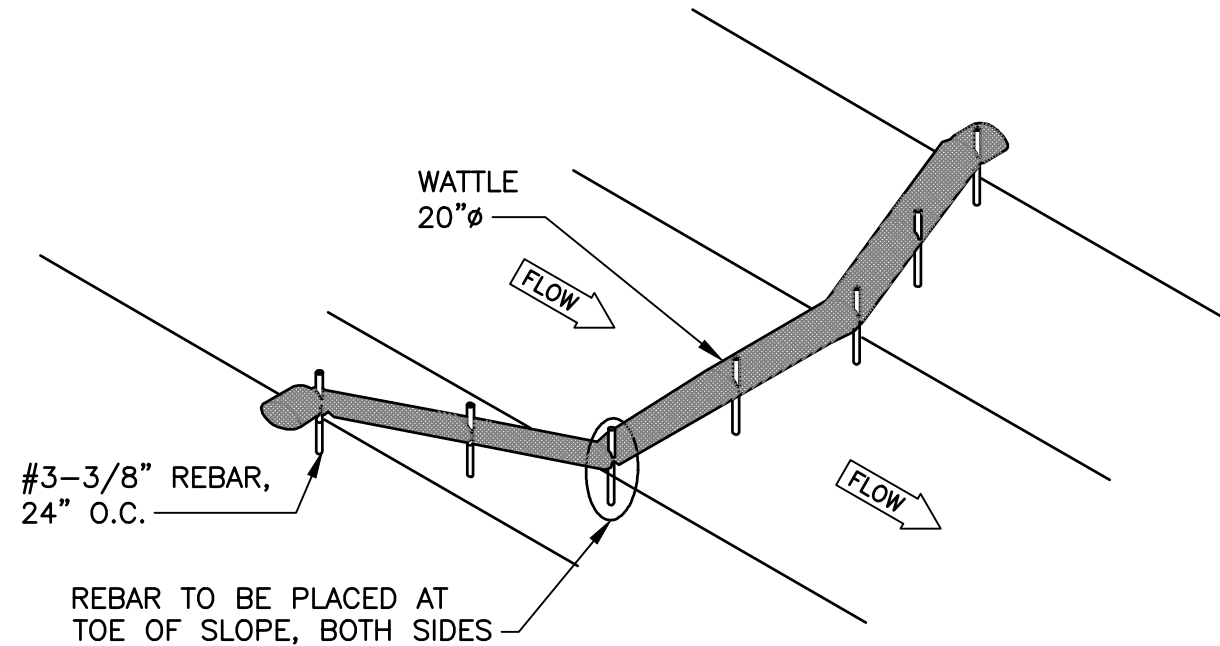
01 | WATTLE DETAIL

SCALE: N.T.S.



02 | WATTLE SLOPE PROTECTION

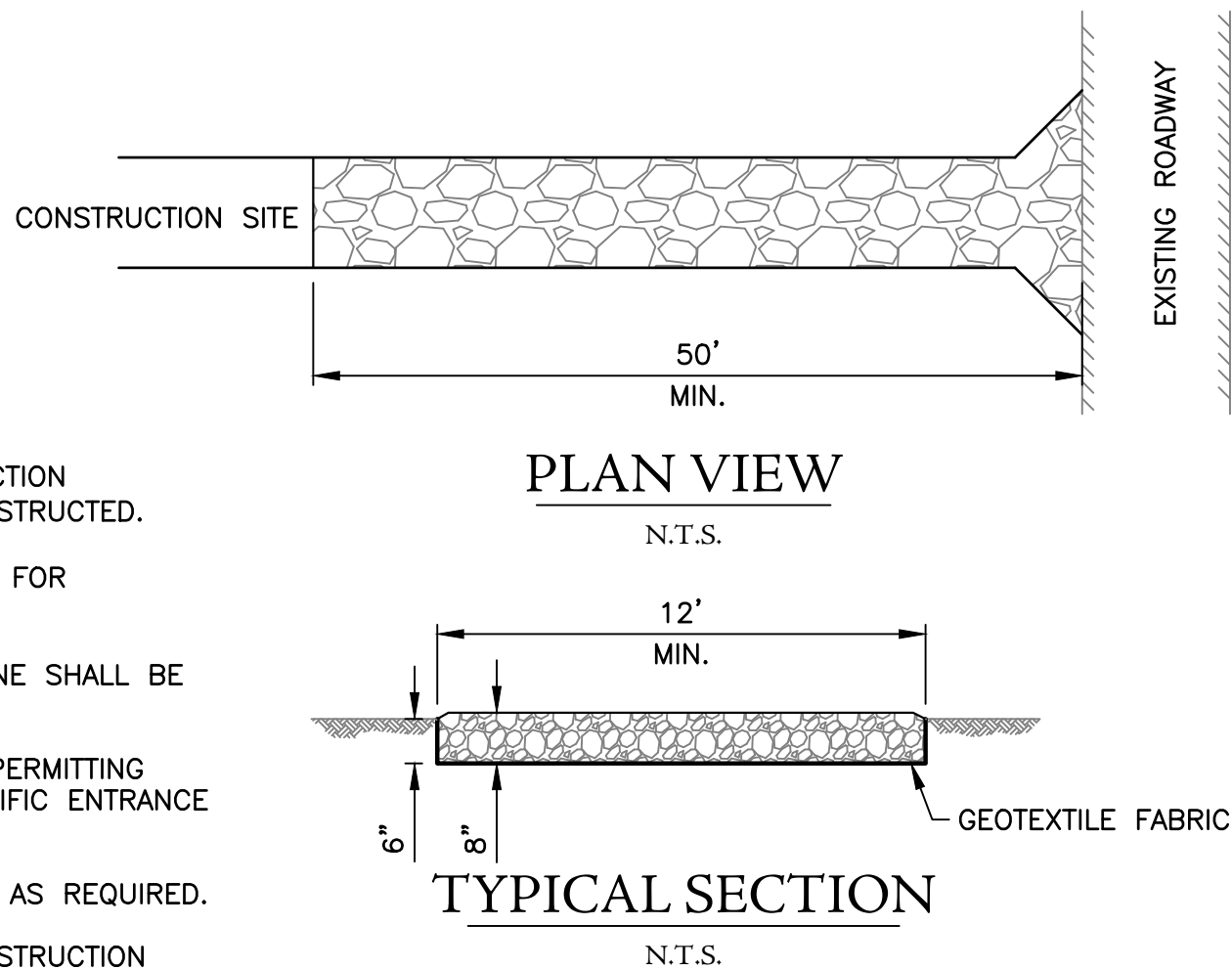
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03 | WATTLE DITCH CHECK DETAIL

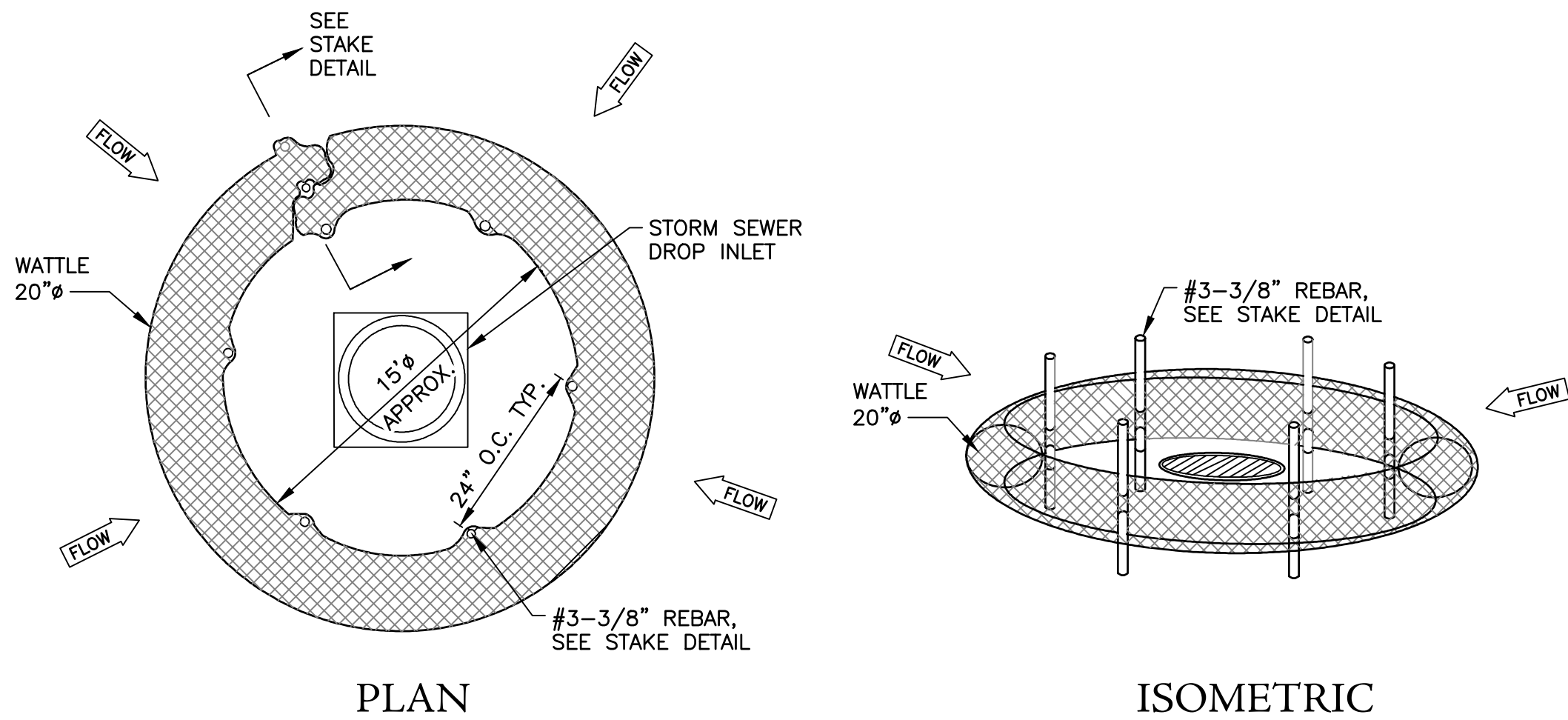
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- NOTES:
- A STONE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED.
 - ALDOT #2 STONE TO BE USED FOR CONSTRUCTION ENTRANCE/EXIT.
 - A GEOTEXTILE FABRIC UNDERLINE SHALL BE INSTALLED.
 - CONTRACTOR TO VERIFY WITH PERMITTING AUTHORITY ANY PROJECT-SPECIFIC ENTRANCE SPECIFICATIONS.
 - PROVIDE TEMPORARY DRAINAGE AS REQUIRED.
 - THE COST OF THE STONE CONSTRUCTION ENTRANCE/EXIT SHALL BE A SUBSIDIARY OBLIGATION OF OTHER ITEMS OF WORK.



04 | TEMPORARY CONSTRUCTION ENTRANCE/EXIT

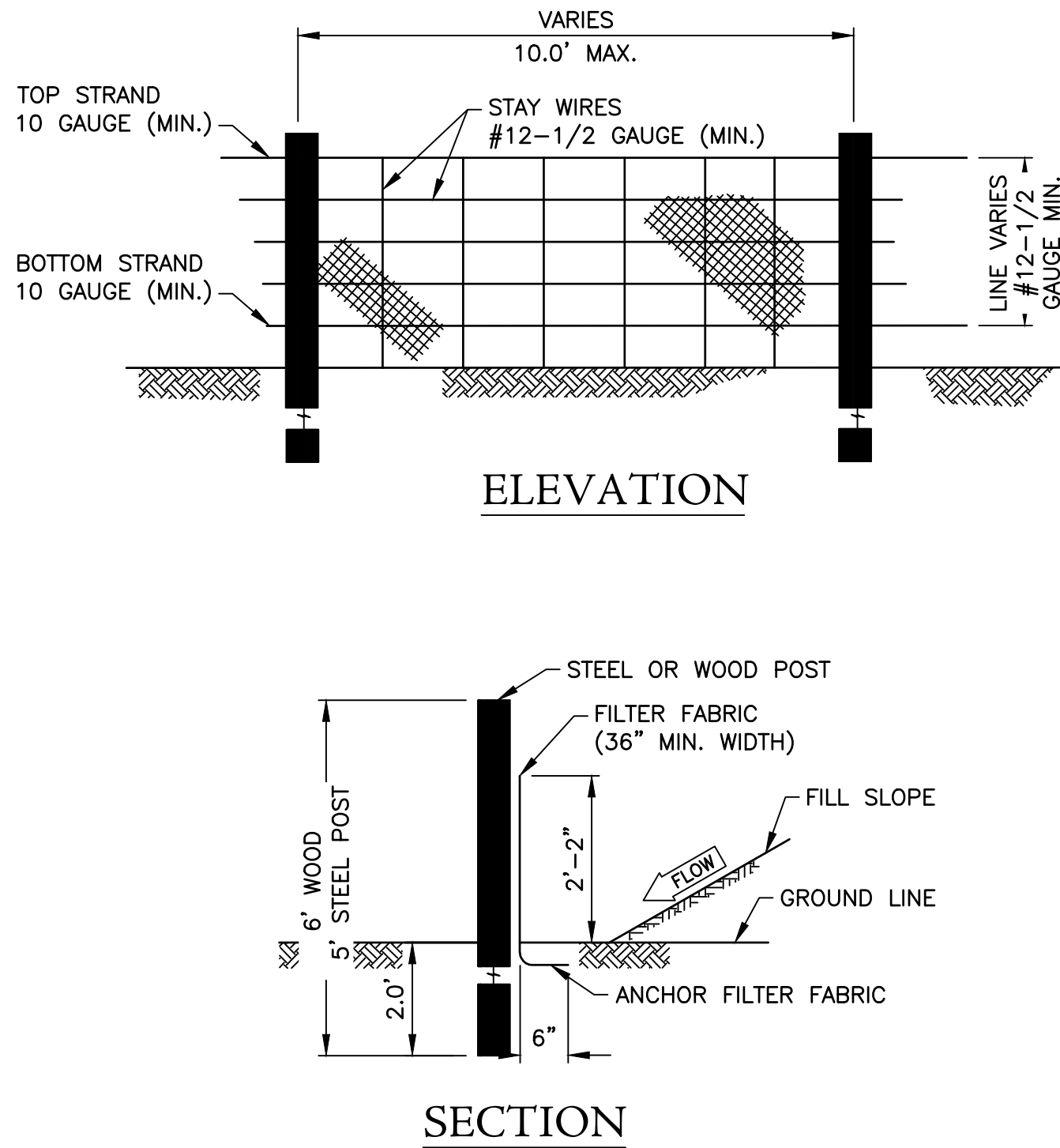
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05 | DROP INLET PROTECTION

SCALE: N.T.S.

STORMWATER POLLUTION PREVENTION PLAN EXHIBIT							
1.0 GENERAL INFORMATION							
A. PROJECT DESCRIPTION:				B. PROJECT OWNER:			
C. CONSTRUCTION TYPE:				D. SOIL DISTURBANCE ACTIVITIES:			
E. SITE DESCRIPTION AND CHARACTERISTICS:				F. GENERAL PERMIT:			
TOTAL SITE AREA: ACRES				STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES			
TOTAL DISTURBED AREA: ACRES				PERMIT NO. ALR100000 (SITES >1 ACRE)			
RECEIVING WATER: LOCAL DITCHES							
2.0 SEQUENCE OF MAJOR ACTIVITIES, CONTROL MEASURES, AND STABILIZATION DATES							
MAJOR ACTIVITY	CONTROL MEASURES	TIMING/SEQUENCE	RESPONSIBLE CONTRACTOR	DATE BEGAN	DATE COMPLETED TEMPORARILY OR PERMANENTLY	DATE STABILIZED	
1. CLEARING, GRUBBING, ROUGH GRADING	1. STABILIZED CONSTRUCTION ENTRANCE 2. SILT FENCING 3. HAY BALES	CONSTRUCTED PRIOR TO AND DURING ACTIVITY					
2. UTILITY CONSTRUCTION (WATER, SEWER, ELECTRICAL)	1. STABILIZED TRENCHES	PRIOR TO INSTALLATION					
3. BUILDING FOUNDATION	1. CONSTRUCT/COORDINATE CONCRETE WASHOUT AREA	PRIOR TO PLACING CONCRETE					
4. BUILDING CONSTRUCTION	1. STABILIZE DENUDED AREAS WITH SEED AND MULCH	IMMEDIATELY AFTER ROUGH GRADING					
5. SITE PAVING	1. STORM DRAINAGE SYSTEM PROTECTION	PRIOR TO SETTING FORMS					
6. FINISH GRADING & LANDSCAPING	1. SOD, SEED, EROSION FABRIC, LANDSCAPE, FERTILIZE & WATER LANDSCAPING	AT COMPLETION OF FINISH GRADING					
3.0 GENERAL SWPPP NOTES							
1. ALL EROSION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SECTIONS 665 OF THE ALDOT SPECIFICATIONS.							
2. CONTRACTOR TO OBTAIN GENERAL PERMIT ALR100000 AND COMPLY WITH ALL REQUIREMENTS, REPORTING PROCEDURES, RECORDS DATABASE, NOTIFICATIONS & OTHER REQUIREMENTS AS REQUIRED BY THE PERMIT.							
3. CONTRACTOR TO POST NOTICE AT SITE IN ACCORDANCE WITH THE GENERAL PERMIT.							
4. CONTRACTOR TO MAINTAIN ALL EROSION CONTROL MEASURES, IN EFFECTIVE OPERATING CONDITION, UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND PAVING COMPLETED.							
5. CONTRACTOR TO COMPLETE AND SUBMIT STORMWATER POLLUTION PREVENTION PLAN (SWPP) TO ALL APPLICABLE REGULATING AUTHORITIES.							
6. CONTRACTOR TO COMPLETE AND SUBMIT NOTICE OF INTENT & NOTICE OF TERMINATION AS REQUIRED BY THE GENERAL PERMIT.							
7. STABILIZATION MEASURES OF DISTURBED AREAS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED SHALL BE INITIATED WITHIN 14 CALENDAR DAYS, UNLESS EARTH DISTURBING ACTIVITIES ARE TO RESUME WITHIN 21 CALENDAR DAYS.							
8. CONTRACTOR TO KEEP CONSTRUCTION ACTIVITIES, DEBRIS AND SEDIMENTATION WITHIN PROPERTY LINES AND SERVITUDES. ANY DEBRIS AND SEDIMENTATION ESCAPING THE CONSTRUCTION SITE SHALL BE IMMEDIATELY RECLAIMED BY THE CONTRACTOR. CONTRACTOR SHALL KEEP PUBLIC RIGHTS OF WAY AND STREETS CLEAN.							
9. SEDIMENT & EROSION CONTROL DEVICES INDICATED ON PLAN SHALL BE CONSIDERED A MINIMUM STANDARD. ADDITIONAL DEVICES AS REQUIRED BY GOVERNING AUTHORITIES SHALL BE PROVIDED, INSTALLED, INSPECTED AND MAINTAINED BY THE CONTRACTOR AT NO DIRECT COST TO OWNER OR ENGINEER.							
10. CONTRACTOR IS RESPONSIBLE FOR ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENT, EROSION, OR POLLUTANTS CAUSED BY THIS WORK.							
11. CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT ALL STORM DRAINAGE STRUCTURES AFFECTED BY CONSTRUCTION OF THIS PROJECT, INCLUDING MANHOLES, FLUMES, PIPES, PONDS, ETC., PRIOR TO COMPLETION OF THE PROJECT.							
12. AT THE END OF EACH WORK DAY AND AFTER EVERY RAINSTORM, CONTRACTOR WILL BE REQUIRED TO SWEEP AND REMOVE ALL DIRT, MUD, OR SILT THAT ACCUMULATES ON PUBLIC STREETS AS A RESULT OF CONSTRUCTION ACTIVITY FOR THIS PROJECT.							
13. ENDANGERED/THREATENED SPECIES REVIEW AND CULTURAL/ARCHAEOLOGY REVIEW LETTERS HAVE NOT BEEN COMPLETED.							
14. OPERATOR TO MARK-UP THIS TABLE AND PLAN WITH APPLICABLE DATES AND ACTIVITIES (I.E., DATE A SILT FENCE IS MOVED)							
4.0 INSPECTION & REPORTING				5.0 SITE OPERATOR CERTIFICATION			
1. QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE EVERY 14 CALENDAR DAYS, BEFORE ANTICIPATED STORM EVENTS, AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.				1. SITE OPERATOR HEREBY CERTIFIES THAT ALL SWPP ISSUES AND REQUIREMENTS AS SET FORTH IN GENERAL PERMIT ALR100000 HAVE BEEN MET.			
2. A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND ACTION REQUIRED AND/OR TAKEN MUST BE FILLED OUT AND SIGNED.				SITE OPERATOR CERTIFICATION:			
3. INSPECTION REPORTS TO BE KEPT WITH THE SWPP (ON-SITE)				SIGNATURE _____ DATE _____			
4. ALL INSPECTIONS AND REPORTING TO BE PERFORMED IN ACCORDANCE WITH ALR100000.							

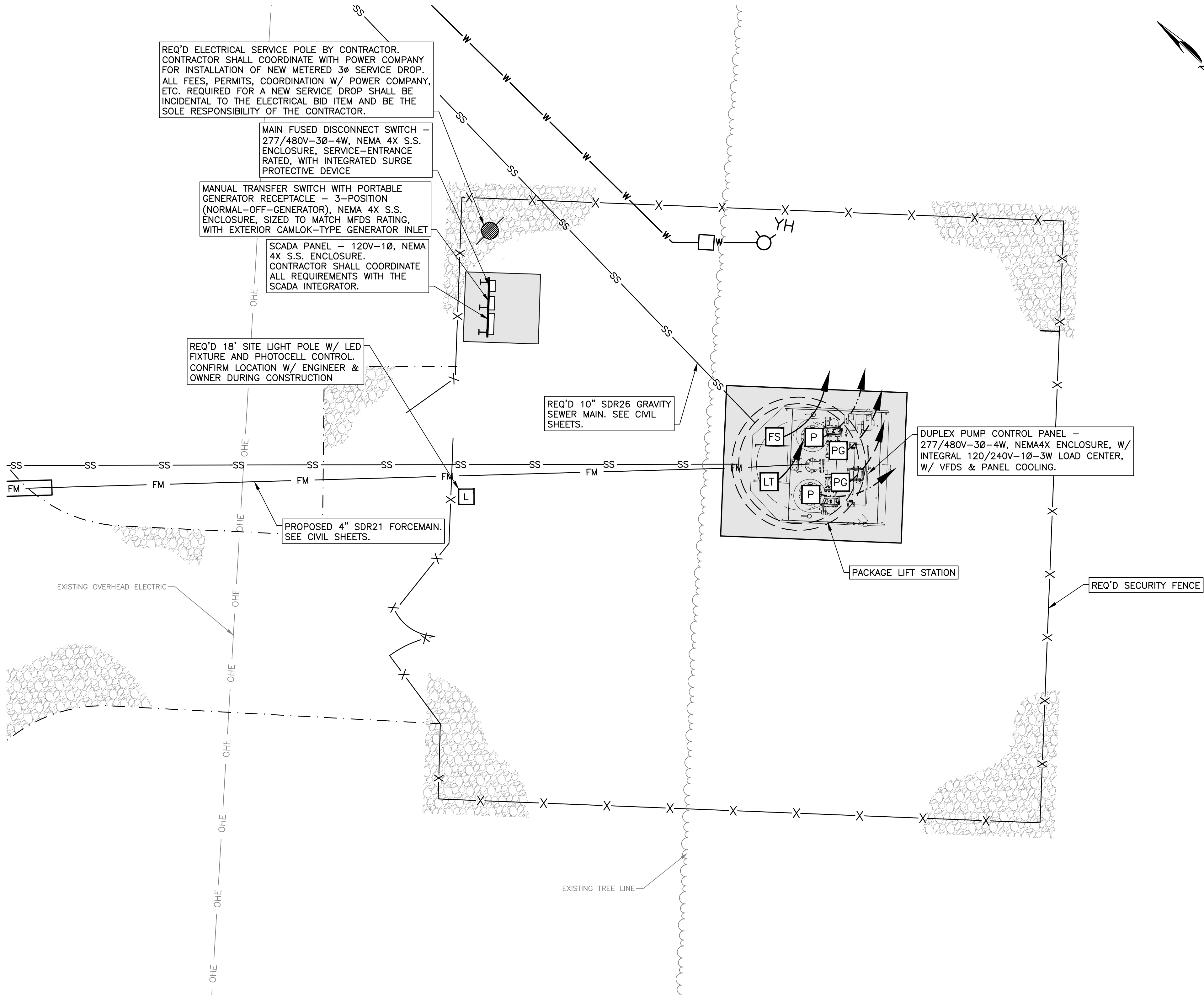


- NOTES:
- SILT FENCING SHALL BE IN ACCORDANCE WITH SECTION 665 OF THE ALDOT STANDARD SPECIFICATIONS.
 - FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED SECURELY TO THE POSTS.
 - STEEL "T" POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF SELF FASTENER ANGLE STEEL TYPE.
 - WOODEN POSTS SHALL BE A MINIMUM OF 6'-0" IN HEIGHT AND 4" OR MORE IN DIAMETER.
 - FILTER FABRIC SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN #9 WIRE STAPLES @ 1" LONG.
 - CONTRACTOR SHALL PERIODICALLY REMOVE ACCUMULATED SEDIMENT, WHEN SEDIMENT DEPTH REACHES 12".
 - THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:
 - 7.a. EOS IS NOT LARGER THAN U.S. STANDARD SIEVE NO. 70
 - 7.b. GRAB STRENGTH 80-120 LB.
 - 7.c. CONFORM TO ASTM D-1682 OR ASTM D-177

06 | TEMPORARY SILT FENCING

SCALE: N.T.S.

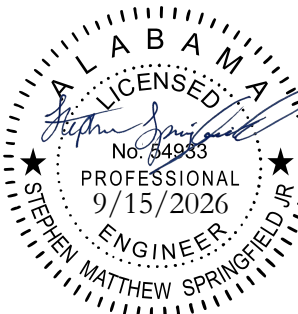
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ELECTRICAL SITE PLAN
SCALE: 1/4" = 1'

- ELECTRICAL NOTES:
- ELECTRICAL, INSTRUMENTATION, AND SCADA/RTU SYSTEM DESIGN SHOWN ON THESE PLANS IS CONCEPTUAL/SCHEMATIC ONLY AND IS PROVIDED FOR BIDDING AND COORDINATION PURPOSES. FINAL ELECTRICAL DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO EQUIPMENT PROCUREMENT AND INSTALLATION.
 - ALL ELECTRICAL DESIGN DOCUMENTS SHALL BE PREPARED, SIGNED, AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF ALABAMA. CONTRACTOR SHALL SUBMIT A COMPLETE ELECTRICAL SUBMITTAL PACKAGE (SINGLE LINE DIAGRAM(S), PANEL SCHEDULES, SCADA RTU POINT LIST, AND PRODUCT DATA/SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT) FOR ENGINEER REVIEW PRIOR TO PROCUREMENT.
 - CONTROL DIAGRAMS AND SCHEMATICS, WHERE SHOWN, ARE FOR CONCEPT ONLY AND DO NOT SHOW ALL REQUIRED CONTROLS. THE PUMP CONTROL PANEL/STARTER MANUFACTURER IS RESPONSIBLE FOR THE DETAILED DESIGN OF ALL CONTROL WIRING, RELAYS, TIMERS, AND INTERLOCKS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM, COORDINATED WITH THE MOTOR, SCADA, AND INSTRUMENTATION MANUFACTURERS.
 - SAFETY, INCLUDING BUT NOT LIMITED TO COORDINATION WITH OTHERS FOR CIRCUITS OR EQUIPMENT THAT IS LIVE OR MAY BECOME LIVE, IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. THE OWNER AND THE ENGINEER ARE NOT RESPONSIBLE FOR SAFETY.
 - ELECTRICAL SYSTEMS AND DEVICES SHALL BE INSTALLED PER THE NATIONAL ELECTRICAL CODE (NFPA 70), CURRENT EDITION AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION, WITH MODIFICATIONS AS REQUIRED TO SUIT EXISTING CONDITIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, AND CERTIFICATES OF INSPECTION AND APPROVAL ASSOCIATED WITH THE ELECTRICAL WORK.
 - THE ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS, AS DEFINED BY DETAIL "HAZARDOUS AREA CLASSIFICATION" OR BY NFPA 820, SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR CONDUIT SEALS, RACEWAY TYPES, AND MATERIAL/DEVICE TYPES RATED FOR THE CLASSIFIED AREA.
 - CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICE WITH THE UTILITY COMPANY PRIOR TO SUBMITTING BID. IF UTILITY REQUIREMENTS ARE AT VARIANCE WITH THOSE SHOWN ON PLANS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN THE BID PRICE.
 - CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL ELECTRICAL AND MECHANICAL EQUIPMENT FROM MANUFACTURER'S SUBMITTALS PRIOR TO ROUGHING IN CONDUIT, AND SHALL ADJUST CONDUIT SIZE, WIRE SIZE, AND CIRCUIT PROTECTION ACCORDINGLY. EQUIPMENT LOCATIONS AND SIZES SHOWN ARE CONCEPTUAL; CONTRACTOR SHALL VERIFY THAT ALL FURNISHED EQUIPMENT FITS WITHIN THE SPACE AND CLEARANCES INDICATED AND AVAILABLE IN THE FIELD, AND SHALL STUB UP CONDUITS PER THE FINAL APPROVED ELECTRICAL SUBMITTAL. NOTIFY ENGINEER IF REQUIREMENTS EXCEED WHAT IS SHOWN.
 - CONTRACTOR SHALL COORDINATE ALL UNDERGROUND ELECTRICAL WORK WITH EXISTING UNDERGROUND UTILITIES (SEWER, WATER, GAS, TELEPHONE, DRAINAGE, ETC.). UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST.
 - ALL LOCATIONS SHOWN FOR INSTRUMENTATION AND EQUIPMENT (LT, FS, PG, ETC.) ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE EXACT FIELD LOCATION OF ALL EQUIPMENT AND PROVIDE ELECTRICAL SERVICE OR CONTROLS AT THE CLOSEST APPROPRIATE JUNCTION BOX. THESE PLANS DO NOT NECESSARILY DEPICT EXACT CONDUIT ROUTING OR METHOD OF ACCESS TO STRUCTURES; CONTRACTOR SHALL SUBMIT PROPOSED ROUTING TO THE ENGINEER AND OWNER FOR APPROVAL, ADJUSTING AS REQUIRED IN THE FIELD TO AVOID CONFLICTS WITH NEW OR EXISTING PIPING, STRUCTURES, AND EQUIPMENT. FLEXIBLE CONDUIT RUNS BETWEEN DISCONNECTS/RACEWAYS AND EQUIPMENT JUNCTION BOXES SHALL BE LIMITED TO 18" MAXIMUM.
 - ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NEC, WHETHER SHOWN ON DRAWINGS OR NOT. SEE DETAILS FOR TYPICAL GROUNDING REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE PROPERLY SIZED ENCLOSURES AND WIREWAYS FOR ALL WIRING, INCLUDING MULTIPLE LUGS PER PHASE WHERE REQUIRED. CONNECT SINGLE-PHASE LOADS IN A MANNER THAT BALANCES PHASE LOADING ON PANELS AND TRANSFORMERS.
 - ALL EXTERIOR DISCONNECT SWITCHES, CONTROL PANELS, AND OTHER EXTERIOR ELECTRICAL DEVICES SHALL BE FURNISHED IN NEMA 4X STAINLESS STEEL ENCLOSURES UNLESS SPECIFICALLY NOTED OTHERWISE.
 - PROVIDE GFCI PROTECTION FOR ALL RECEPTACLE CIRCUITS LOCATED OUTDOORS, IN WET OR POTENTIALLY WET LOCATIONS, OR IN PARTIALLY ENCLOSED AREAS. ALL SUCH RECEPTACLES SHALL BE WEATHERPROOF-IN-USE RATED.
 - CONTRACTOR SHALL PROVIDE PERMANENT LAMINATED LABELS (3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND, MINIMUM 1" WIDE, STAINLESS STEEL HARDWARE) FOR EACH DISCONNECT SWITCH, CONTROL DEVICE, AND FEEDER BREAKER. PRESSURE-SENSITIVE "STICK-ON" LABELS ARE NOT ALLOWED. PROVIDE ADDITIONAL WARNING LABELS AT THE DUPLEX PUMP CONTROL PANEL AND MANUAL TRANSFER SWITCH INDICATING MULTIPLE POWER SOURCES (NORMAL UTILITY AND PORTABLE GENERATOR); OPENING THE MAIN DISCONNECT DOES NOT NECESSARILY DE-ENERGIZE ALL CONDUCTORS WITHIN THE PANEL.
 - ALL SPARE CONDUIT SHALL BE PROVIDED WITH A TRACEABLE NONMETALLIC FISH ROPE AND CAPPED (RGS CAPS FOR RGS CONDUIT, PVC CAPS FOR PVC CONDUIT).
 - NO SPLICES SHALL BE INSTALLED BETWEEN TERMINATIONS EXCEPT WHERE SHOWN OR DETAILED ON THE DRAWINGS. UNDERGROUND SPLICES ARE NOT ALLOWED FOR ANY SERVICE UNLESS OTHERWISE NOTED.
 - ALL CONDUIT SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL EXPOSED OR VISIBLE CONDUIT, FITTINGS, WIREWAYS, GUTTERS, AND APPURTENANCES SHALL BE RIGID ALUMINUM / PVC-COATED RIGID STEEL EXCEPT LOW-VOLTAGE CIRCUITS; SEAL-TITE FLEXIBLE CONDUIT IS PERMITTED BETWEEN PANELS AND EQUIPMENT WHERE NECESSARY. UNDERGROUND CONDUIT SHALL BE ENCASED IN A MINIMUM OF 3" RED CONCRETE ALL AROUND, MINIMUM 18" BELOW GRADE UNLESS SHOWN OTHERWISE. CONDUIT STUBBED OUT FOR FUTURE CONNECTION SHALL TERMINATE A MINIMUM OF 5'-0" BEYOND ANY FOUNDATION. ALL CONDUIT AND EQUIPMENT SHALL BE PROTECTED FROM CONTACT WITH CONCRETE AND OTHER CORROSIVE MATERIALS; PROVIDE MATERIALS SUITABLE FOR EXPOSURE TO A WASTEWATER/HYDROGEN SULFIDE ENVIRONMENT.
 - WARNING TAPE SHALL BE INSTALLED 6" BELOW FINISHED GRADE AND DIRECTLY ABOVE ALL UNDERGROUND FEEDERS, PERMANENTLY MARKED TO DESCRIBE THE SERVICE BURIED BENEATH.
 - ALL HARDWARE, HANGERS, UNISTRUT, CABLE TRAYS, CLAMPS, AND SIMILAR SUPPORT MATERIALS UTILIZED ON THIS PROJECT SHALL BE STAINLESS STEEL.
 - PROVIDE REMOVABLE SEALANT (UNLESS PERMANENT SEALANT IS CALLED FOR) AT ALL CONDUIT ENTRY POINTS INTO THE WETWELL, WWJB, VALVE VAULT, AND ANY PANEL OR JUNCTION BOX RECEIVING CIRCUITS CONNECTED, DIRECTLY OR INDIRECTLY, TO THOSE AREAS.
 - NO CONDUIT, RACEWAY, OR ELECTRICAL APPURTENANCE SHALL BE INSTALLED IN A MANNER THAT CREATES A TRIPPING HAZARD OR OBSTRUCTS PASSAGE OR HEADROOM.
 - CONTRACTOR SHALL FURNISH OPERATION & MAINTENANCE MANUALS FOR ALL ELECTRICAL GEAR, CONTROL PANELS, AND INSTRUMENTATION FURNISHED UNDER THIS CONTRACT.
 - KEEP FREE ENDS OF ALL CABLE TIGHTLY SEALED TO PREVENT THE ENTRANCE OF MOISTURE DURING STORAGE AND AT ALL TIMES WHEN CABLE IS NOT BEING ACTIVELY PULLED.
 - CONTRACTOR SHALL ADJUST ALL CONTROLS, RELAYS, TIMERS, FLOATS, SETPOINTS, AND ALARMS PRIOR TO STARTUP TO ENSURE PROPER OPERATION AND PREVENT NUISANCE TRIPS OR ALARMS; READJUST AS NECESSARY FOLLOWING STARTUP IN COORDINATION WITH EQUIPMENT MANUFACTURERS, ENGINEER, AND OWNER.
 - ALL ELECTRICAL SYSTEMS, ASSEMBLIES, AND COMPONENTS FURNISHED SHALL BE UL LISTED.
 - THE USE OF THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL, AND WIRE THE ASSOCIATED DEVICE OR EQUIPMENT, COMPLETE AND READY FOR ITS INTENDED USE.

ELECTRICAL LEGEND	
MARK	DESCRIPTION
PG	PRESSURE GAUGE
LT	LEVEL TRANSDUCER
P	PUMP
FS	FLOAT SWITCH
L	LIGHT FIXTURE, LITHONIA DSX0-LED-P5-40K-T4M-MVOLT-RPA-H S-DDBXD ON LITHONIA RSS184B-DM191AS-DDBXD ROUND STRAIGHT STEEL POLE
	SUBMERSIBLE CABLEING (FLOAT SWITCHES & LEVEL TRANSDUCER) TO PUMP CONTROL PANEL & SCADA PANEL
	CONDUIT & WIRING FROM PRESSURE GAUGE TRANSMITTERS (PG) TO SCADA PANEL
	CONDUIT & WIRING FROM PUMP MOTORS TO PUMP CONTROL PANEL



REVISIONS		DATE	BY
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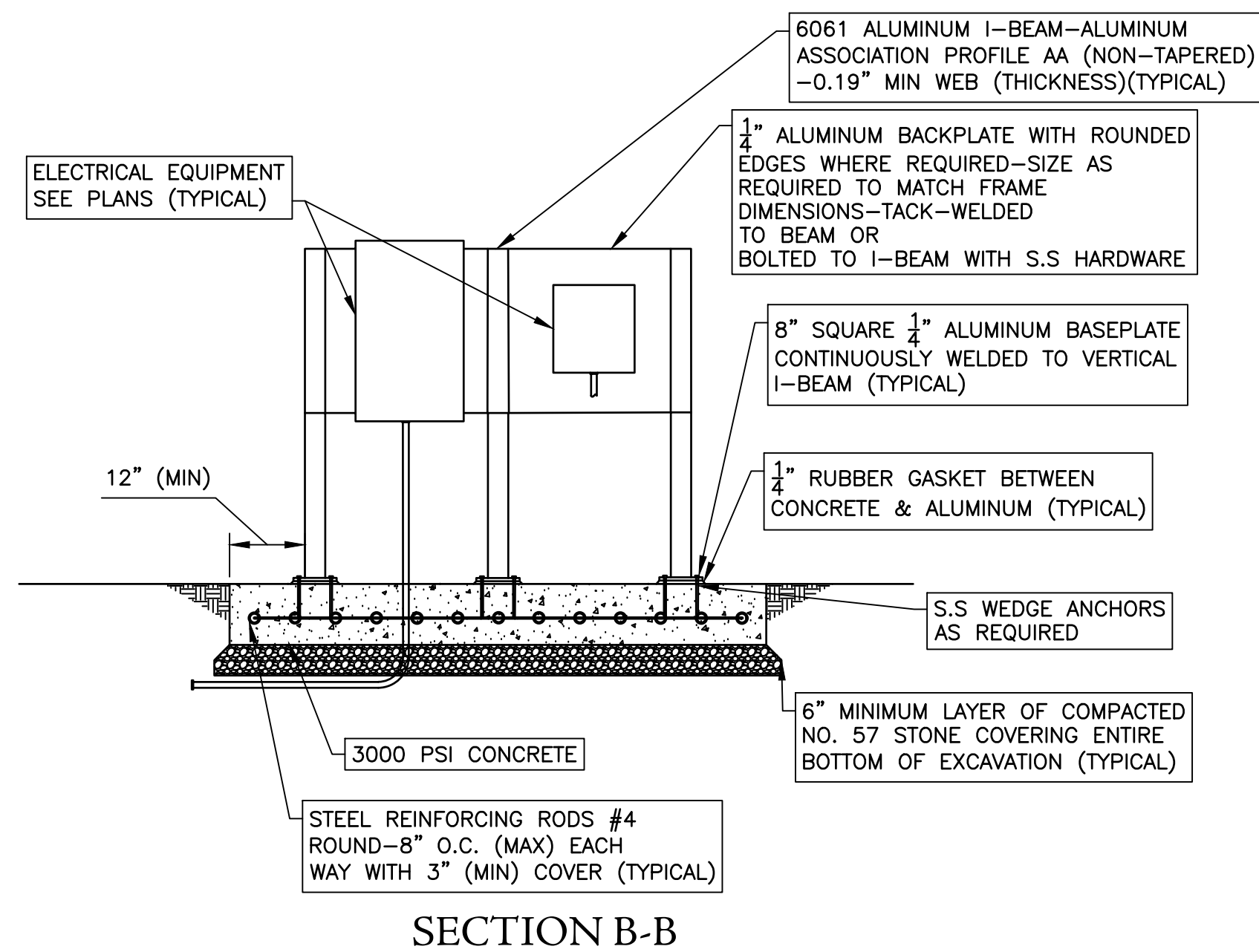
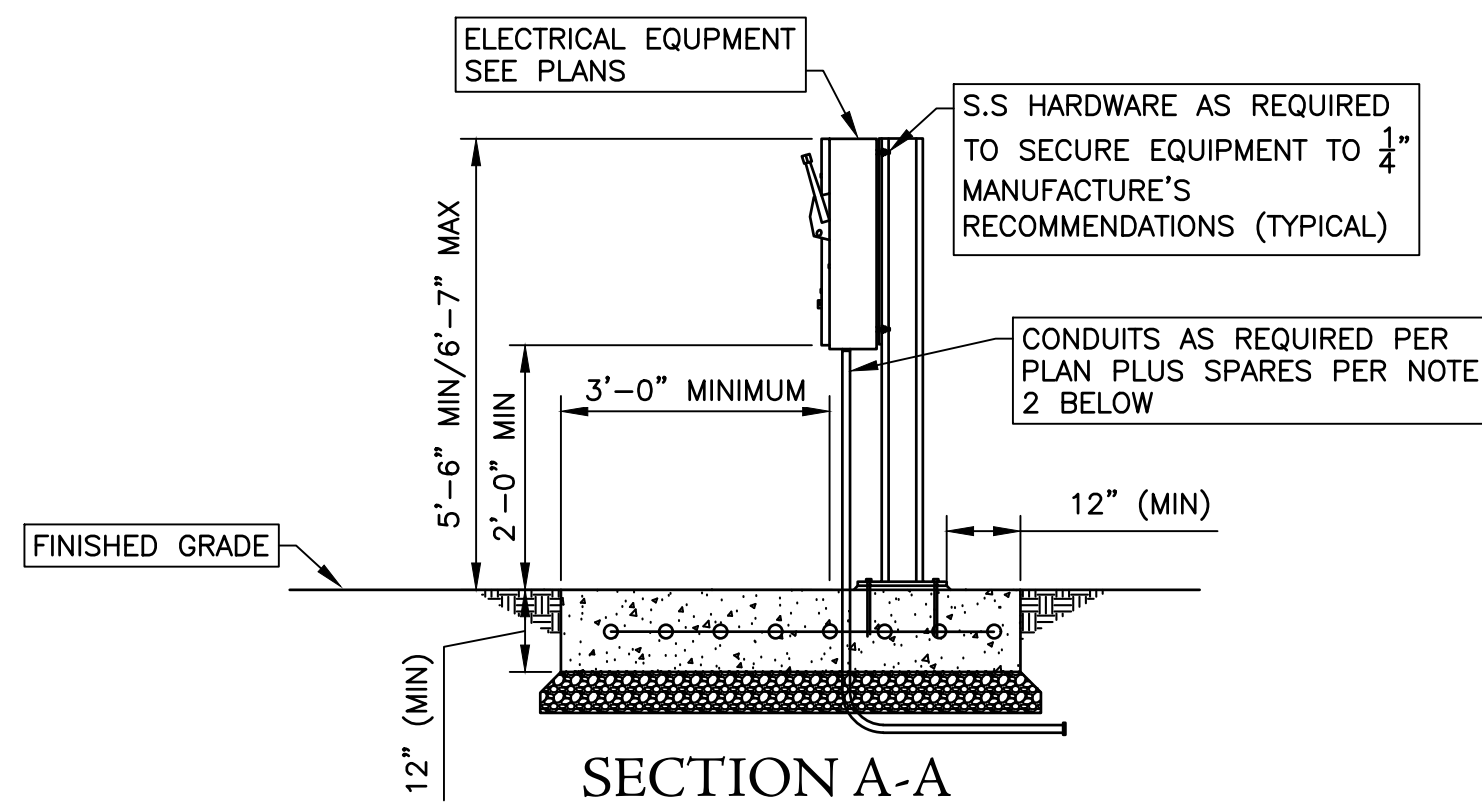
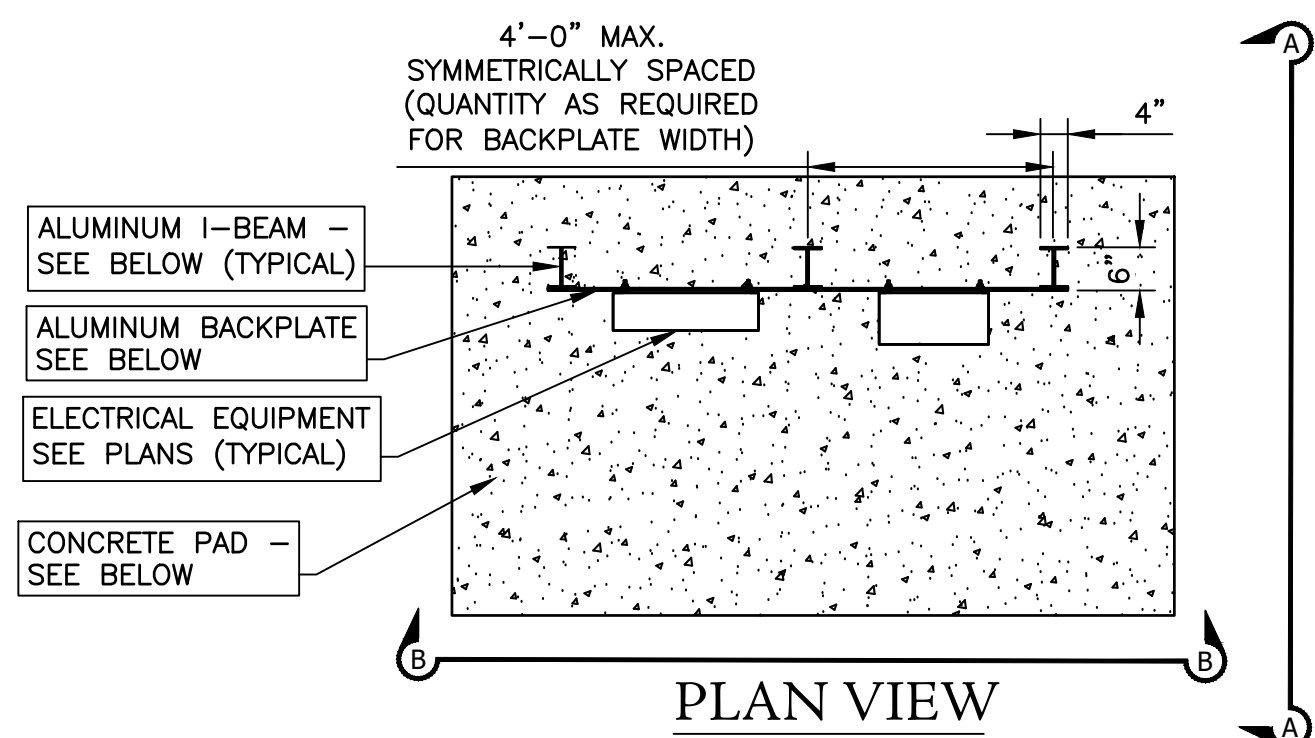
ELECTRICAL SITE PLAN
SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, Alabama 35674
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

ATTENTION:
THIS BAR = 1 INCH ON
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ADJUST SCALE IF THIS
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1"

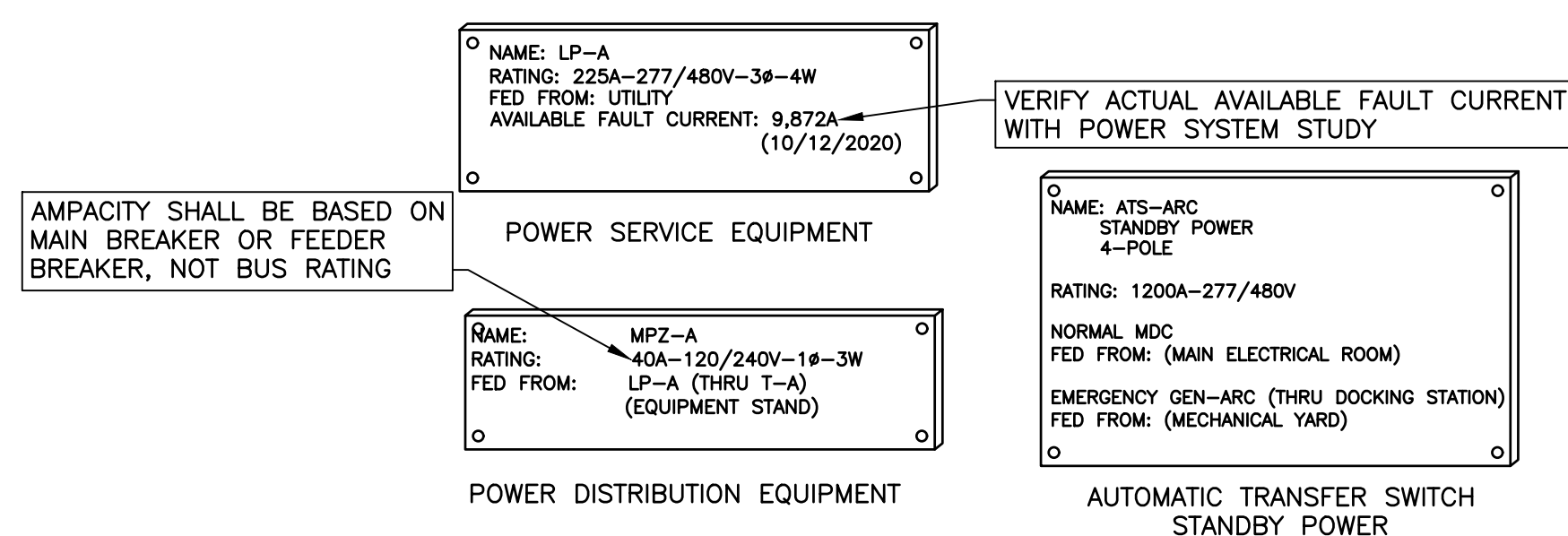
PROJECT NO: 24-0032A
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06 EQUIPMENT SUPPORT DETAIL

SCALE: N.T.S.



NOTES:

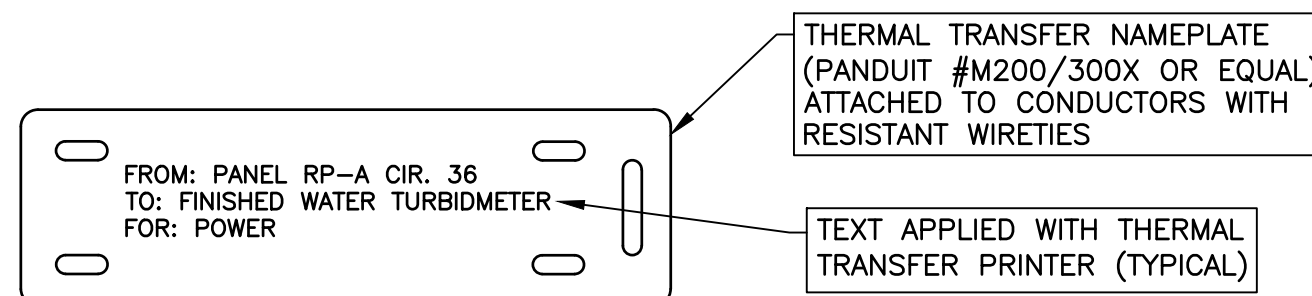
- PANEL NAMES & RATINGS LISTED ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES & RATINGS SHALL BE ADJUSTED TO MATCH ASSOCIATED EQUIPMENT.
- THE INTENT OF THIS DETAIL IS TO DEMONSTRATE GENERAL ELECTRICAL IDENTIFICATION REQUIREMENTS FOR ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS REGARDING LOCATIONS, CONTENT, MATERIALS, ETC..

08 TYPICAL DISTRIBUTION EQUIPMENT LABEL

SCALE: N.T.S.

ELECTRICAL DETAILS
SCALE: N.T.S.

E-2



NOTES:

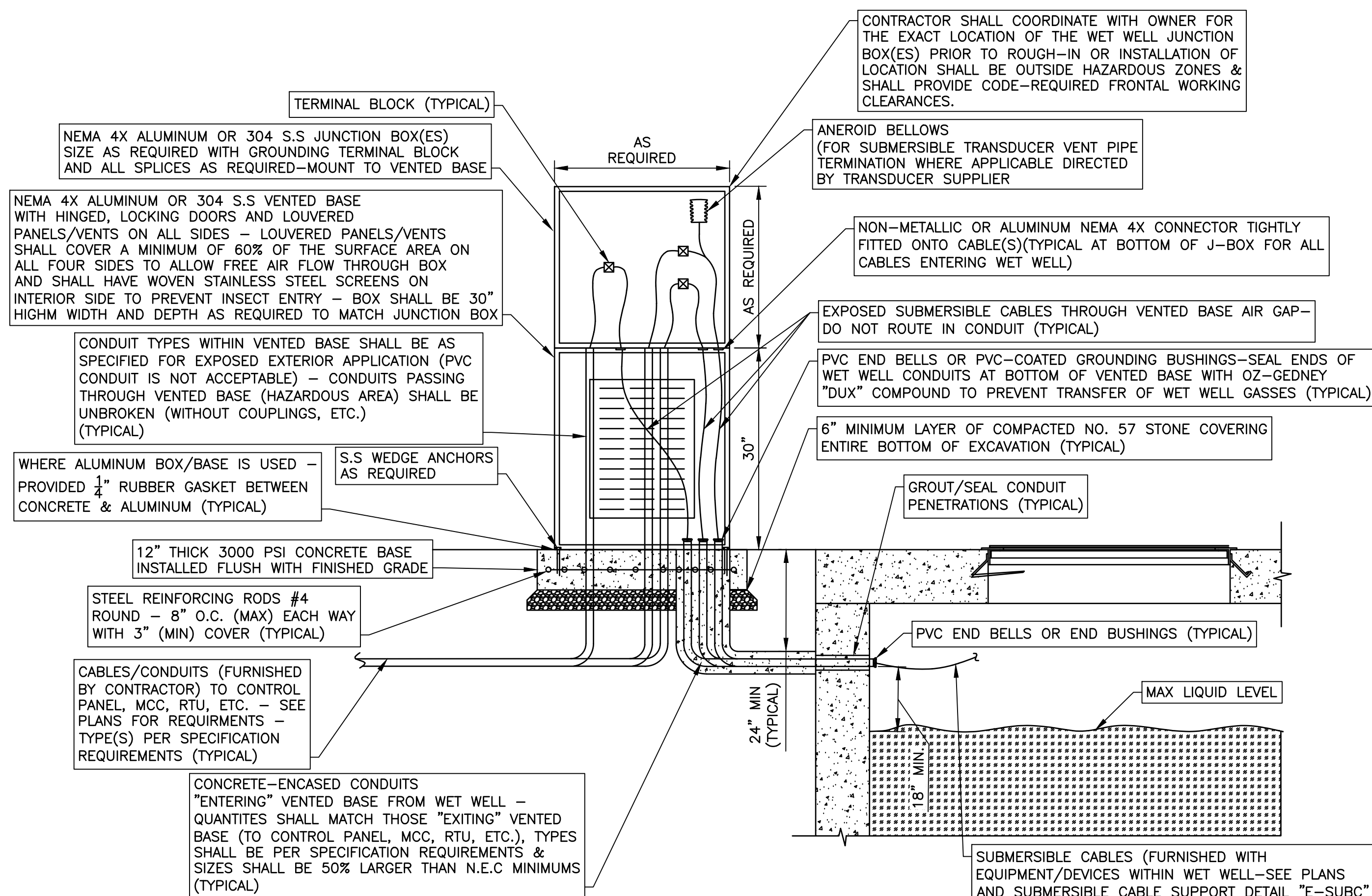
- CIRCUIT LABEL TYPES SHOWN ABOVE SHALL BE USED TO IDENTIFY ALL CIRCUITS WITHIN PULLBOXES, HANDHOLES, VAULTS JUNCTION BOXES LARGER THAN 4-11/16", APPROXIMATELY EVERY 50 FEET WITHIN CABLE TRAYS (INCLUDING AT MAJOR CABLE TRAY JUNCTIONS AND BREAKOUT LOCATIONS) AND AT OTHER SIMILAR LOCATIONS. SEE SPECIFICATIONS FOR LABELING REQUIREMENTS IN OTHER AREAS.
- CIRCUIT NUMBERS SHALL BE IDENTIFIED FOR ALL CIRCUITS FED FROM LIGHTING OR POWER PANELBOARDS.
- "FROM", "TO" & "FOR" TEXT SHOWN ABOVE ARE FOR EXAMPLE PURPOSES ONLY. NAMES/NUMBERS SHALL BE ADJUSTED TO MATCH ASSOCIATED CIRCUITS/CABLES.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

09 TYPICAL CIRCUIT LABEL

SCALE: N.T.S.

07 WETWELL JUNCTION BOX DETAIL

SCALE: N.T.S.

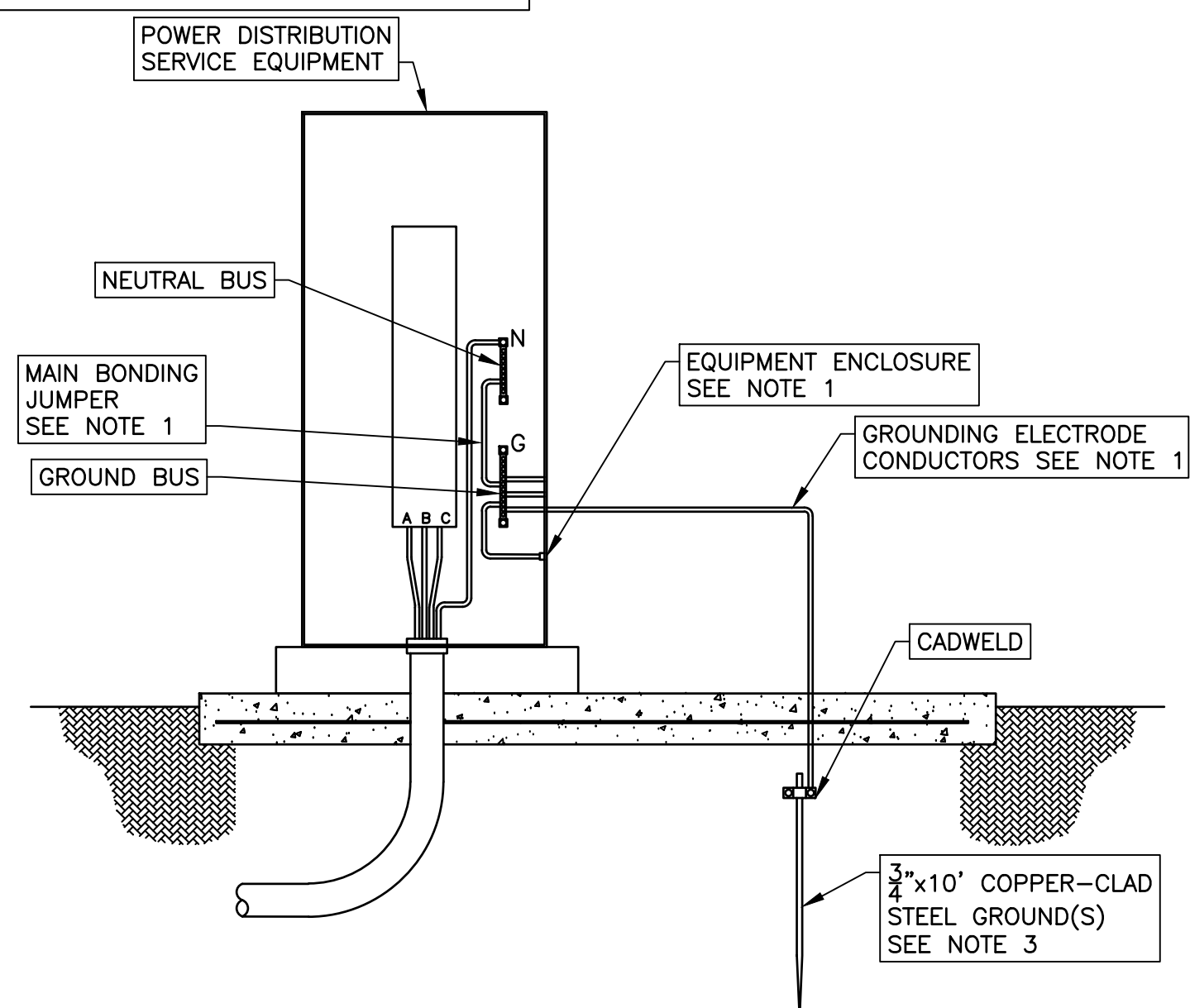


NOTES:

- ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS AS DEFINED BELOW AND BY NFPA 820 SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR RACEWAY TYPES, MATERIAL/DEVICE TYPES, ETC. CONTRACTOR SHALL COORDINATE EXACT WETWELL JUNCTION BOX LOCATION(S) TO BE OUTSIDE OF THESE HAZARDOUS AREAS:
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION I, GROUP D AREAS:
 - AREAS WITHIN WASTEWATER PUMPING STATION WET WELLS AND VALVE VAULTS.
 - AREAS WITHIN 3' OF ANY WASTEWATER WET WELL OR VALVE VAULT VENTILATION OUTLET (SUCH AS PIPE VENT).
 - THE FOLLOWING AREAS SHALL BE CONSIDERED CLASS I, DIVISION II, GROUD D AREAS:
 - AREAS UP TO 18" ABOVE TOP OF WASTEWATER WET WELL SLABS AND WITHIN 3' HORIZONTALLY OF HATCHES OR OTHER OPENINGS.
 - AREAS WITHIN 5' OF ANY WASTEWATER WET WELL VENTILATION OUTLET BUT MORE THAN 3' AWAY.
- THIS DETAIL IS TYPICAL ONLY. PROVIDE QUANTITIES/ARRANGEMENTS OF WET WELL JUNCTION BOXES AS REQUIRED BY APPLICATION.
- EXACT HEIGHTS OF ALL LEVEL SENSING TRANSDUCERS & FLOAT SWITCHES SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL LEVEL SENSING TRANSDUCERS SHALL BE LOCATED WITHIN WETWELL AS DIRECTED BY EQUIPMENT SUPPLIER.
- CONTRACTOR SHALL PROVIDE ALL FIELD CONNECTIONS AS DIRECTED BY THE EQUIPMENT/DEVICE SUPPLIERS.

NOTES:

- ALL GROUNDING ELECTRODE CONDUCTORS AND MAIN BONDING JUMPERS SHALL BE INSULATED COPPER, SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS NOTED OTHERWISE.
- THE INTERSYSTEM BONDING JUMPER SHALL BE INSULATED COPPER, SIZED TO MATCH THE GROUNDING ELECTRODE CONDUCTOR OR #6AWG, WHICHEVER IS GREATER.
- ADDITIONAL GROUND RODS SHALL BE INSTALLED A MINIMUM OF SIX (6) FEET APART AND CONNECTED BY GROUNDING ELECTRODE CONDUCTORS UNTIL THE GROUND RESISTANCE DOES NOT EXCEED FIVE (5) OHMS.
- ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT (TYPE PER SPECIFICATION REQUIREMENTS) UNLESS SPECIFICALLY NOTED OTHERWISE. METAL CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS.
- REFER TO "GROUNDING" SPECIFICATIONS SECTION FOR ADDITIONAL GROUNDING REQUIREMENTS.



10 MAIN SERVICE GROUNDING DETAIL

SCALE: N.T.S.



ELECTRICAL DETAILS

SAN. SEWER LIFT STATION IMPROVEMENTS

CITY OF SHEFFIELD

COLBERT COUNTY COMMISSION

COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY

800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

301 N Dickson St.
Tusculum, AL 35674

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR ≠ 1 INCH.

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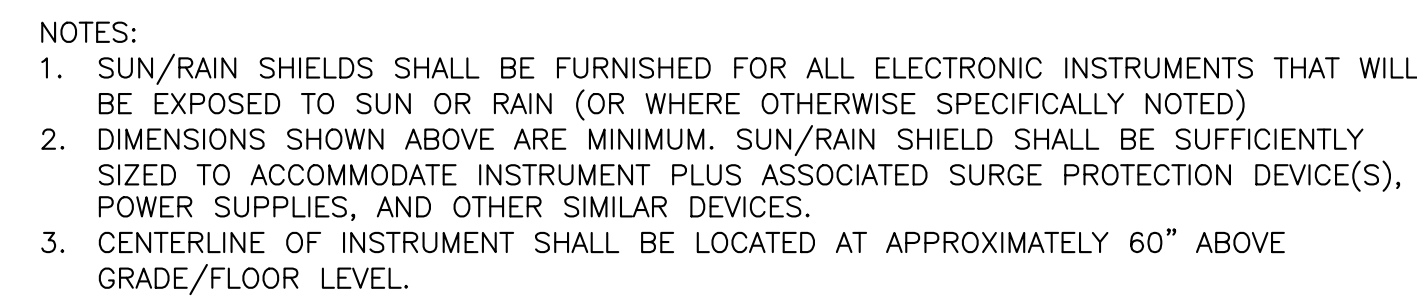
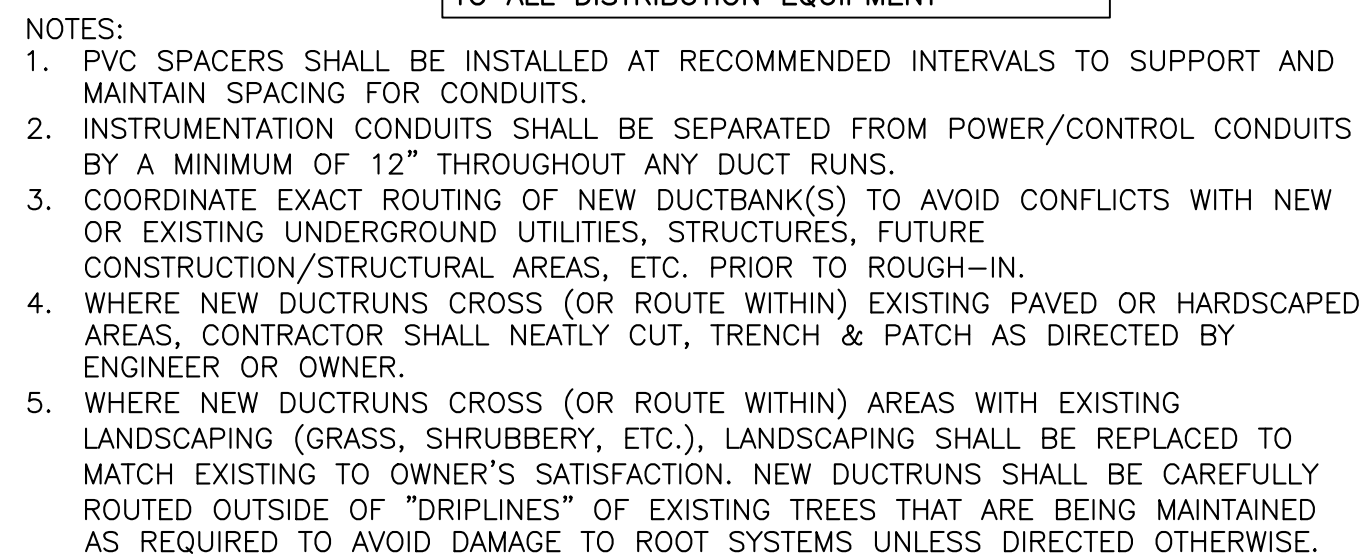
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NOTES:

1. CONTRACTOR SHALL CONFIRM SOIL CONDITIONS PRIOR TO BID OR INSTALLATION. IF SOIL CONDITIONS/TYPES ARE DIFFERENT THAN THE SPECIFIC TYPES INDICATED BELOW, OR THE POLE HEIGHTS ARE IN EXCESS OF THOSE LISTED BELOW, OR THE BASIC WIND SPEED FOR THE PROPOSED POLE LOCATION (PER ASCE 7 BASIC WIND SPEED MAPS) IS IN EXCESS OF 100MPH, OR THE COMBINED E.P.A. OF ALL LUMINAIRES/ARMS/ACCESSORIES INSTALLED ON A POLE IS IN EXCESS OF 5.5 S.F., THE CONTRACTOR SHALL RETAIN A QUALIFIED STRUCTURAL ENGINEER (LICENSED IN THE STATE OF ALABAMA) TO PROVIDE A PROJECT-SPECIFIC STRUCTURAL DESIGN FOR THE PROPOSED POLE BASE(S), AND SHALL INCLUDE ALL COSTS (FOR THE DESIGN AND THE REQUIRED POLE BASES) IN THE BID.
2. MINIMUM POLE BASE DIAMETER SHALL BE THE GREATER OF THE FOLLOWING:
 - 2.1. ANCHOR BOLT CIRCLE DIAMETER PLUS 8" (TO PROVIDE MINIMUM 4" COVER OVER ALL ANCHOR BOLTS)
 - 2.2. 20" DIAMETER
 - 2.3. DIAMETER AS REQUIRED BY SOIL CONDITIONS OR POLE SUPPLIER.
3. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES OR OBSTRUCTIONS TO AVOID CONFLICTS PRIOR TO INSTALLATION OF LIGHT POLE BASE(S).
4. POLE SHALL BE RATED TO WITHSTAND THE WIND SPEED SPECIFIED FOR THE SPECIFIC PROJECT SITE LOCATION PER LATEST VERSION OF ASCE 7 BASIC WIND SPEED MAPS OR APPLICABLE LOCAL BUILDING CODE REQUIREMENTS (WHICHEVER IS MORE STRINGENT), WITH 1.3 GUST FACTOR WITH ALL LUMINAIRES & ACCESSORIES INSTALLED.



REVISIONS			
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ELECTRICAL DETAILS

SAN. SEWER LIFT STATION IMPROVEMENTS

CITY OF SHEFFIELD

COLBERT COUNTY COMMISSION

COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
- A CIVIL ENGINEERING COMPANY -

300 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

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SHEET NO. **E-3**

