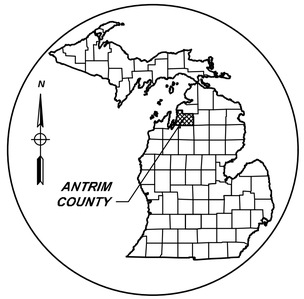
BASECAMP - TORCH LAKE WASTEWATER TREATMENT FACILITY

MCMULLEN PROPERTIES



AREA MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

N

SECTION 04, T.29N.-R.8W.,
FOREST HOME TOWNSHIP,
ANTRIM COUNTY, MICHIGAN

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THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE LICENSED PROFESSIONAL FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE LICENSED PROFESSIONAL DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

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DRAWING LOG

DATE	BY	MARK	REVISED PER EGLE COMMENTS
3/23/26	QRP		DESCRIPTION

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

COVER

Spicer group
WWW.SPICERGROUP.COM

DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	01
SHEET 01 OF 19	

P:\Proj\2025\139871SG2025_Bate_Camp_at_Torch_Lake_Septic\2_AutoCAD_C3D\C3D_Sheets\Spicer Cover Sheet 2021.mcp - 8/23/2026 11:33:59 AM - Phelps, Quinn R.

GENERAL NOTES

NO WORK SHALL BE PERFORMED BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THROUGH SATURDAY. NO WORK SHALL HAPPEN ON SUNDAYS OR HOLIDAYS, UNLESS AUTHORIZED BY THE OWNER.

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO START OF CONSTRUCTION, CONSTRUCTION STAKING AND INSPECTION.

CONTRACTOR SHALL MAINTAIN ACCESS FOR MAIL DELIVERY AND GARBAGE PICKUP AT ALL PARCELS. IF THESE SERVICES CANNOT BE PERFORMED, CONTRACTOR IS RESPONSIBLE FOR TAKING THE NECESSARY MEASURES TO CARRY THEM OUT.

COORDINATE DRIVE CLOSURES AND MAIL BOX RELOCATION WITH LANDOWNERS A MINIMUM OF ONE DAY IN ADVANCE.

CONTRACTOR TO PROVIDE DUST CONTROL AND SWEEP ROADS DAILY.

ALL EXCAVATED MATERIAL NOT TO BE REUSED OR DISPOSED OF ON SITE SHALL BE REMOVED FROM SITE. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF MATERIALS ACCORDING TO LOCAL AND STATE REQUIREMENTS.

UNDERGROUND UTILITIES/MISS DIG
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS 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 A PART OF THE "MISS DIG" ALERT SYSTEM.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS.

ALL CONSTRUCTION UNDER EXISTING UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH SAND, IN 12" LAYERS, AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT.

ANY UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE SUPPORTED, PER THE SPECIFICATIONS OF THE INDIVIDUAL UTILITY COMPANY CLAIMING OWNERSHIP OF THE UTILITY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES
APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY OWNER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD, SEED/MULCH, OR SEED/MULCH BLANKET AS DIRECTED BY OWNER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.

ALL CATCHBASINS AND SEDIMENTATION TRAPS/BASINS SHALL BE CLEANED OUT UPON COMPLETION OF THE PROJECT.

CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.

PROPERTY OWNERS
PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

ADJUSTING MONUMENT BOXES
ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.

TRAFFIC
THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES. SIGNAGE MUST BE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL BE COORDINATED WITH THE ENGINEER AND GOVERNING ROAD AGENCY. PERMITS MAY BE REQUIRED.

PERMITS
PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE APPROPRIATE AGENCIES.

CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE AGENCIES.

GENERAL NOTES CONT.

SANITARY SEWER NOTES
CONTRACTOR SHALL CALL "MISS DIG" (1-800-482-7171) A MINIMUM OF 3 WORKING DAYS PRIOR TO CONSTRUCTION.

ALL CONSTRUCTION UNDER EXISTING OR PROPOSED PAVEMENT AND FUTURE UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH SAND, IN 12" LAYERS, AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR SANITARY SEWER.

ALL SEWER JOINTS SHALL CONFORM TO A.S.T.M. C-425.

ALL SEWER PIPE SHALL CONFORM TO A.S.T.M. C-700.

INFILTRATION SHALL NOT EXCEED 100 GAL./INCH DIA./MILE/DAY.

ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF ? TOWNSHIP.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICTS EXIST.

ABBREVIATIONS

BC = BACK OF CURB
BM = BENCH MARK
C/C = CENTER TO CENTER
CB = CATCH BASIN
CL = CENTERLINE
CJ = CONSTRUCTION JOINT
CMP = CORRUGATED METAL PIPE
CSP = CORRUGATED STEEL PIPE
CONC = CONCRETE
DI = DUCTILE IRON PIPE
EF = EACH FACE
ELEC = ELECTRIC
EL OR ELEV = ELEVATION
EOM = EDGE OF METAL
EOP = EDGE OF PAVEMENT
EQ/SP = EQUALLY SPACED
ESMT = EASEMENT
EW = EACH WAY
EX OR EXIST = EXISTING
FF = FINISH FLOOR
FL = FLOW LINE
FS = FINISH SURFACE
FG = FINISH GROUND
GALV = GALVANIZED
G = GUTTER
HDG = HOT DIP GALVANIZED
HDPE = HIGH DENSITY POLYETHYLENE
HP = HIGH POINT
HMA = HOT MIX ASPHALT
HYD = HYDRANT
INV = INVERT
LP = LOW POINT
OC = ON CENTER
OH = OVERHEAD
MH = MANHOLE
MIN = MINIMUM
MON = MONUMENT
NFL = NOT FIELD LOCATED
NTS = NOT TO SCALE
PROP = PROPOSED
PVC = POLYVINYL CHLORIDE
RCP = REINFORCED CONCRETE PIPE
ROW = RIGHT OF WAY
SAN = SANITARY
SB = SOIL BORING
SS = STAINLESS STEEL
STA = STATION
STM = STORM
SWR = SEWER
T/B = TOP AND BOTTOM
TC = TOP OF CURB
TOB = TOP OF BANK
TOS = TOE OF SLOPE
TELE = TELEPHONE
TRW = TOP OF RETAINING WALL
TW = TOP OF WALK
UNO = UNLESS NOTED OTHERWISE
WM = WATER MAIN
WS = WATER SURFACE ELEVATION

LINE TYPE LEGEND

- EXISTING ROAD CENTERLINE
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER OR FORCEMAIN
- EXISTING STORM SEWER
- EXISTING TELEPHONE CABLE
- EXISTING GAS MAIN
- EXISTING ELECTRIC
- PROPOSED UTILITY
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- FENCE LINE
- OVERHEAD UTILITY
- RAILROAD TRACKS
- STATION LINE
- LIMITS OF RIGHT OF WAY
- EASEMENT
- SILT FENCE
- REVERSE PAN CURB & GUTTER
- TREE LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS

SYMBOL LEGEND
EXISTING SYMBOLS

- MANHOLE
- CATCH BASIN
- CURB CATCH BASIN
- FIRE HYDRANT
- GAS VALVE
- WATER VALVE
- TELEPHONE PEDESTAL
- POWER POLE
- TELEPHONE POLE
- POWER AND TELEPHONE POLE
- LIGHT POLE
- GUY ANCHOR AND POLE
- MAIL BOX
- WATER METER
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- M.W. - MONITORING WELL
- HAND HOLE
- TRANSFORMER
- ELECTRICAL PEDESTAL
- BARRIER FREE PARKING
- SPRINKLER
- RAILROAD SIGNAL
- ANTENNA
- SATELLITE DISH
- AC - AIR CONDITIONING UNIT
- ABC# - SOIL BORING
- BENCH MARK
- FOUND SURVEY CORNER
- SET 1/2" IRON ROD
- 1/4 SECTION CORNER
- BREAK IN LINE
- EXISTING SIGN-1 POST
- EXISTING SIGN-2 POST
- STUMP
- WETLANDS
- PINE
- BUSH
- TREE

PROPOSED SYMBOLS

- MANHOLE
- CATCHBASIN
- FIRE HYDRANT
- WATER VALVE
- BARRIER FREE PARKING
- LIGHT POLES
- DRAINAGE FLOW
- 600.00 LABEL - SPOT ELEVATION LABELS
  G = GUTTER
  TW = WALK
  TC = TOP OF CURB
  FS = FINISH SURFACE

CONTACTS

DTE ENERGY ATT: LARRY BOURKE PHONE: (231) 592-3244 EMAIL: LAWRENCE.BOURKE@DTEENERGY.COM	GAS
CONSUMERS ENERGY ATT: BLAKE WILSON PHONE: (231) 499-9792 EMAIL: BLAKE.WILSON@CMSENERGY.COM	ELECTRIC
CHARTER COMMUNICATIONS ATT: ASHLEY MARCOLETTE EMAIL: ASHLEY.MARCOLETTE@CCISYSTEMS.COM	CABLE TV
AT&T ATT: C. ANIKA ESTES EMAIL: CE3239@ATT.COM	TELEPHONE
GRAND TRAVERSE COUNTY ATT: LINDA McCLEARY PHONE: (231) 995-6077	DPW - WATER & SEWER

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DATE	BY	MARK	REVISED PER EGLE COMMENTS
8/28/26	QRP	6Y	DESCRIPTION

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

NOTES

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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-#####	02
SHEET 02 OF 19	

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MAINTENANCE PROGRAM FOR SESC MEASURES

GENERAL MAINTENANCE

- TEMPORARY SESC MEASURES SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
- TEMPORARY MEASURES MUST BE MAINTAINED AND IN PLACE UNTIL AREAS ARE PERMANENTLY STABILIZED.
- PERMANENT MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR UNTIL FINAL COMPLETION.
- DAILY MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY.
- TEMPORARY SESC MEASURES SHALL BE REMOVED AT THE END OF THE PROJECT ONCE PERMANENT MEASURES ARE ESTABLISHED.
- TEMPORARY SESC MEASURES SHALL BE INSTALLED PRIOR TO OR AT THE TIME OF EARTH DISTURBANCE.
- CONTRACTOR SHALL PROVIDED DAILY DUST CONTROL ON ALL DISTURBED AREAS, UNTIL TEMPORARY AND PERMANENT STABILIZATION METHODS ARE IN PLACE AND EFFECTIVE.

SEEDING, PLANTING AND MULCHING

- SEEDING AND PLANTING PRACTICES INCLUDE TOPSOIL (AS DIRECTED BY ENGINEER), SEED, POLYMER SILT STOP, AND MULCH OR MULCH MATTING (AS DIRECTED BY ENGINEER OR WHERE SHOWN ON PLANS).
- WHERE NECESSARY, APPROPRIATE MULCH MATTING MUST BE APPLIED BASED ON SLOPE AND GROWING CONDITIONS AS APPROVED BY THE PROJECT ENGINEER.
- ALL SLOPES AND HIGHLY EROSIVE AREAS WILL BE SEEDED AND/OR PLANTED AND MULCHED WHEN CONSTRUCTION ACTIVITY IS NOT TAKING PLACE.
- SEED, PLANTINGS AND MULCH ARE TO BE INSPECTED FOLLOWING EACH RAIN EVENT TO DETERMINE IF CONCENTRATED FLOWS ARE PRESENT.
- IN THE EVENT THAT SEED, PLANTINGS AND MULCH ARE REMOVED BY EROSIVE RUNOFF, REPAIRS ARE TO BE MADE IMMEDIATELY. COST TO BE INCLUDED IN THE BID PRICE FOR SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- ALL AREAS DURING CONSTRUCTION WILL BE PERMANENTLY STABILIZED WITHIN 24 HOURS OF FINAL GRADE (GRADE LISTED ON PLAN).

SILT FENCE

- SILT FENCE IS TO BE TRENCHED IN NO LESS THAN 6 INCHES BELOW THE GROUND SURFACE.
- INSPECT SILT FENCE DAILY AND IMMEDIATELY FOLLOWING EACH RAINFALL.
- REPAIR WHEN SILT FENCE IS SAGGING OR HAS BEEN REMOVED/TORN DOWN.
- WHEN SILT COLLECTS TO HALF THE HEIGHT OF THE FENCE ALL SILT IS TO BE REMOVED AND FENCE REPAIRED.
- REMOVE SILT FENCE WHEN PERMANENT SESC MEASURES ARE IN PLACE AND VEGETATION IS ESTABLISHED.

COMPLIANCE WITH PART 91 OF PA 451

- RESPOND IMMEDIATELY TO STORMWATER OPERATOR AND/OR SOIL EROSION AND SEDIMENTATION CONTROL INSPECTOR CONCERNS. MAKE CORRECTIVE MEASURES AS REQUIRED IMMEDIATELY AS DETAILED BY THE APPROVED APA MANUAL(S) THAT APPLY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

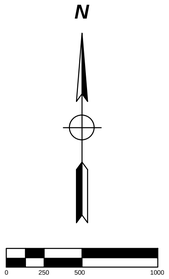
- APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.
- ALL CATCHBASINS AND SEDIMENTATION TRAP/BASIN SHALL BE CLEANED OUT AFTER ANY STORM EVENT AND REMOVED UPON COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. TEMPORARY SEEDING SHALL BE CONDUCTED ON ALL DISTURBED AREAS THAT WILL BE FINISH GRADED AT A LATER DATE.
2. FINAL SEEDING AND/OR PLANTING AND POLYMER APPLICATION SHALL BE COMPLETED WITHIN 72 HOURS OF FINAL GRADING. WEEKLY INSPECTIONS OF SEEDED AND PLANTED AREAS SHALL BE COMPLETED TO VERIFY GROWTH. ANY AREAS NOT ESTABLISHED SHALL BE FERTILIZED, SOILS AMENDED AND RE-SEEDED OR RE-PLANTED AS NECESSARY. ALL COST FOR ESTABLISHMENT OF SEEDED OR PLANTED AREAS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE SEEDING OR PLANTING PAY ITEM.
3. CONTRACTOR TO INSTALL AND MAINTAIN ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION OR MASS GRADING.
4. ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADWAYS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR NO LESS THAN ON A DAILY BASIS BY SCRAPING AND SWEEPING.
5. ALL PERMANENT SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE WITHIN 72 HOURS OF FINAL GRADE (GRADE LISTED ON PLANS) OR PRIOR TO A RAINFALL EVENT WHICHEVER IS SOONER, THIS INCLUDES ALL VEGETATIVE STABILIZATION. VEGETATIVE STABILIZATION WILL BE ONGOING. DAILY PERMANENT SEEDING IS REQUIRED UNLESS AUTHORIZED BY THE ENGINEER. SEED, POLYMER SILT STOP, MULCH MATTING AND/OR RIPRAP MUST BE IN PLACE BEFORE PROCEEDING TO THE NEXT WORK AREA. REMOVAL OF TEMPORARY MEASURES, FOLLOWING ACCEPTANCE OF THE PROJECT, IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL SOIL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE CONTRACTOR, AND INSPECTED AFTER EACH RAIN EVENT TO ENSURE PROPER MAINTENANCE OF THE SOIL EROSION CONTROL MEASURES. ANY DEFICIENCIES OR REPAIRS TO SOIL EROSION CONTROL MEASURES ARE TO BE CORRECTED IMMEDIATELY.
7. INSTALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES BEFORE OR UPON COMMENCEMENT OF THE EARTH CHANGE ACTIVITY AND MAINTAIN MEASURES ON A DAILY BASIS. REMOVE TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED ("STABILIZED" MEANS THE ESTABLISHMENT OF VEGETATION OR THE PROPER PLACEMENT, GRADING, OR COVERING OF SOIL TO ENSURE ITS RESISTANCE TO SOIL EROSION, SLIDING, OR OTHER EARTH MOVEMENT).
8. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEASURES ARE INSTALLED IN COMPLIANCE WITH THE APA MANUAL AND THAT THE SESC MEASURES ARE MONITORED AND MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED AND TEMPORARY MEASURES ARE REMOVED. CONTRACTOR ACKNOWLEDGES THAT SESC MEASURES MAY NEED TO BE ADAPTED, ADJUSTED, OR ADDED BASED ON SITE CONDITIONS IN ORDER TO REMAIN IN COMPLIANCE WITH PART 91 REQUIREMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR CLEANUP & RESTORATION INCLUDING PROGRESS CLEANING. PROGRESS CLEANING INCLUDES BUT NOT LIMIT TO REMOVAL OF WASTE MATERIALS, DEBRIS, RUBBISH, AND EXCESS SPOILS, COMPLETE LEVELING AND RESTORE DAMAGE NOT MORE THAN 1000 FEET BEHIND CONSTRUCTION. ALSO INCLUDES DAILY CLEANING OF ALL ROAD SURFACES.

GENERAL MAINTENANCE PROCEDURES

1. MONITOR ALL DISTURBED AREAS AND AREAS PROTECTED WITH SESC MEASURES ON A DAILY BASIS. MAINTAIN SESC MEASURES DAILY.
2. APPLY SEED, MULCH, POLYMER, ADDITIONAL PLANTINGS AS REQUIRED TO PREVENT SOIL EROSION, OR AS DIRECTED BY ENGINEER.



SCALE: 1" = 500'



SSURGO SOILS IN PROJECT LOCATION				
MUSYM	COMPOSITION NAME	DRAINAGE	HYDROLOGIC GROUP	HYDRIC
W	Water	0	0	0
KlkbaE	Kalkaska-Blue Lake sands, 18 to 35 percent slopes	Somewhat Excessively Drained	A	NO
KlkbaB	Kalkaska-Blue Lake sands, 0 to 6 percent slopes	Somewhat Excessively Drained	A	NO
KlkbaD	Kalkaska-Blue Lake sands, 6 to 18 percent slopes	Somewhat Excessively Drained	A	NO
EmtblB	Emmet-Blue Lake loamy sands 2 to 6 percent slopes	Well Drained	B	NO
TawleA	Tawas-Leafriver mucks, 0 to 1 percent slopes	Very Poorly Drainged	B/D	YES
IsoaaB	Iosco sand, 0 to 6 percebt slopes	Somewhat Poorly Drained	C/D	NO
SrlkaB	Springlake-Kalkaska sands, 0 to 6 percent slopes	Somewhat Excessively Drained	A	NO
AugdeA	Au Gres Deford complex, 0 to 3 percent slopes	Somewhat Poorly Drained	A/D	NO

DISTURBANCE/MEASURE	START	COMPL.	2027 APRIL	MAY	JUNE	JULY	AUGUST	SEPT
INSTALL TEMPORARY CONTROL MEASURES	4/3	4/16						
SITE CLEARING/PRELIMINARY GRADING	4/16	4/30						
CONSTRUCTION	5/1	8/31						
FINAL GRADING	8/10	9/18						
SEEDING / MULCHING / RESTORATION	9/7	9/26						
REMOVE TEMPORARY CONTROL MEASURES	9/18	9/30						
TOTAL DISTURBED AREA: 0.5 ACRES								

CONTINUED MAINTENANCE PROGRAM FOR PERMANENT SESC MEASURES	
AGENCY RESPONSIBLE:	PLEASANT MEADOWS HOA
INSPECTION SCHEDULE:	INSPECT BMPS MONTHLY DURING FIRST GROWING SEASON AFTER COMPLETION OF CONSTRUCTION OR AS NEEDED. INSPECT A MINIMUM OF THREE TIMES PER GROWING SEASON FOLLOWING THE FIRST GROWING SEASON AND TWICE DURING THE WINTER SEASON.
PERMANENT SESC MEASURE	MAINTENANCE PROCEDURE
SEEDING:	REPAIR BARE AREAS. APPLYING SUPPLEMENTAL SEED, MULCH, AND WATER AS NEEDED. MOWING CAN BE USED PERIODICALLY TO DISCOURAGE WEEDS.
RIPRAP:	REPAIR AREAS WHERE ROCK HAS BEEN DISPLACED. EXPAND RIPRAP AREA IF NEEDED.

2018 MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL AUTHORIZED PUBLIC AGENCY PROCEDURES

KEY	SESC MEASURE	SYMBOL	WHERE USED
1	SEEDING		When bare soil is exposed, temporarily or permanently, to erosive forces from wind and or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	MULCH		On flat areas, slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
7	STORM DRAIN INLET PROTECTION		Around the entrance to a catch basin or an inlet that will capture runoff from an earth change activity.
9	VEGETATION REMOVAL WITHOUT GRUBBING	Grubbing Omitted	Retains existing root mat which assists in stabilizing slopes. Assists in the revegetation process by providing sprout growth. Reduces sheet flow velocities preventing rilling and gullying. Discourages off-road vehicle use.

DETAILED DRAWINGS AND SPECIFICATIONS ARE LOCATED IN THE MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL AUTHORIZED PUBLIC AGENCY PROCEDURES MANUAL

SYMBOLOGY FOR INSERTION INTO CONSTRUCTION DRAWINGS:

P/P = PERMANENT MEASURE

P/T = TEMPORARY MEASURE

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DRAWING LOG	DATE	BY	MARK	REVISED PER EGLE COMMENTS
	8/28/26	CRP		DESCRIPTION

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

SOIL EROSION & SEDIMENTATION CONTROL

WWW.SPICERGROUP.COM

DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
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SHEET 03 OF 19	

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NOTES:

1. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
2. COORDINATE WORK WITH GOSLING CZUBAK SITE PLAN.
3. REFER TO GOSLING CZUBAK PLANS FOR BENCH MARK INFORMATION.

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE LICENSED PROFESSIONAL FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE LICENSED PROFESSIONAL DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

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DRAWING LOG

DATE	BY	MARK	DESCRIPTION
8/28/26	QRP		REVISED PER EGLE COMMENTS

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

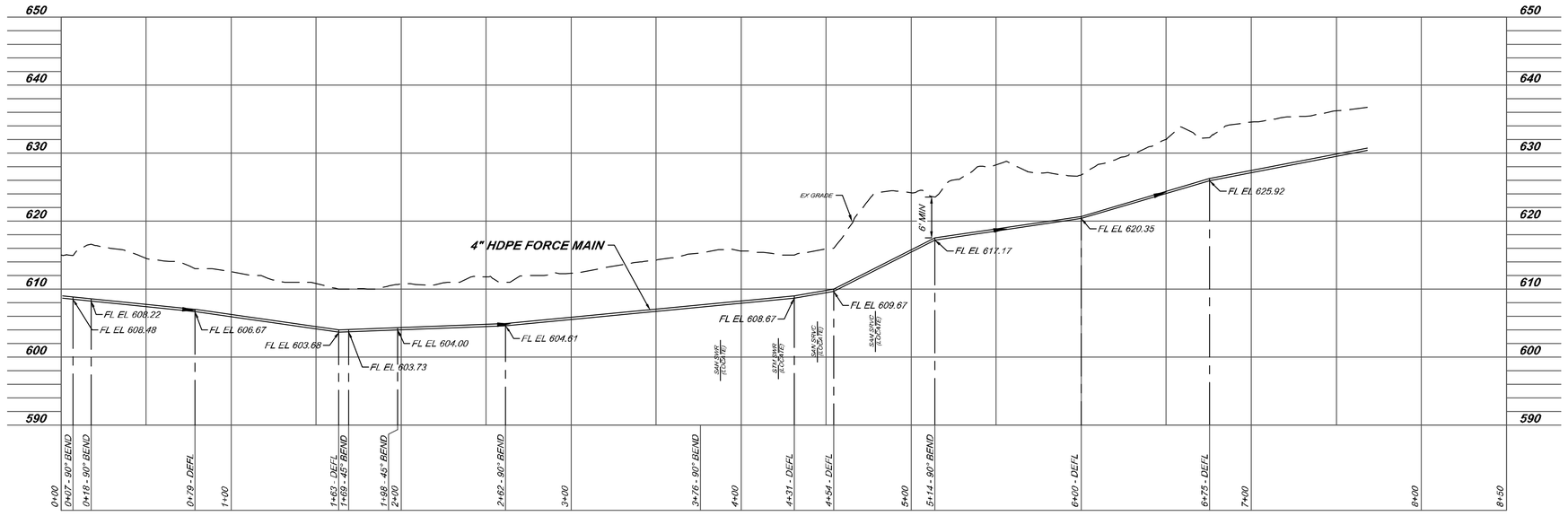
OVERALL SEPTIC SITE PLAN

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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	04
SHEET 04 OF 19	

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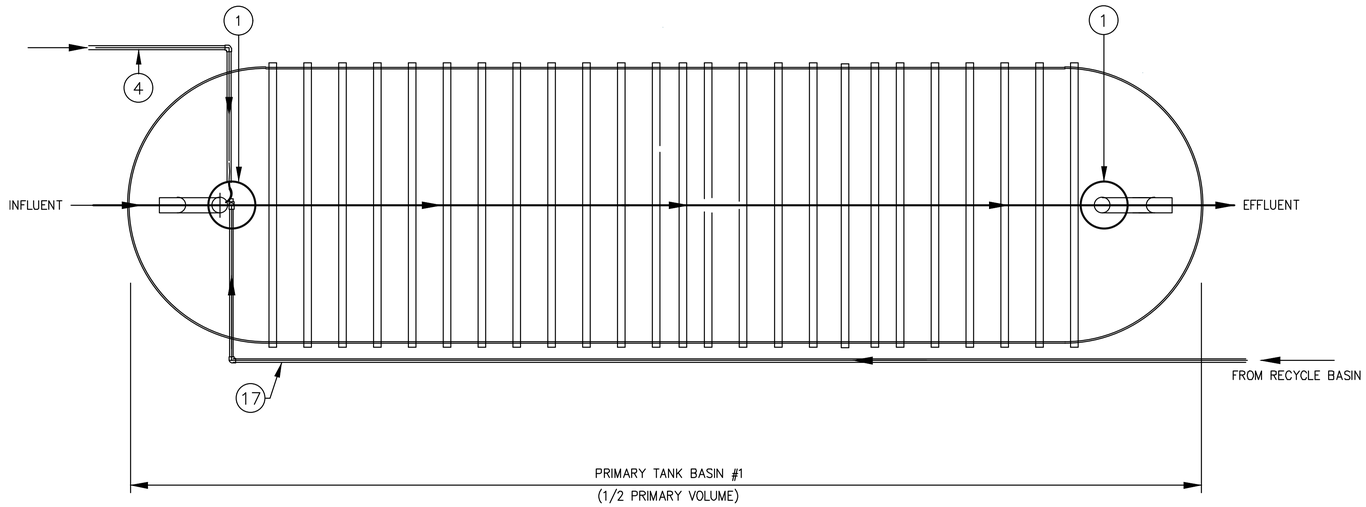
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SPALDING COUNTY, GA

FORCE MAIN PLAN AND PROFILE

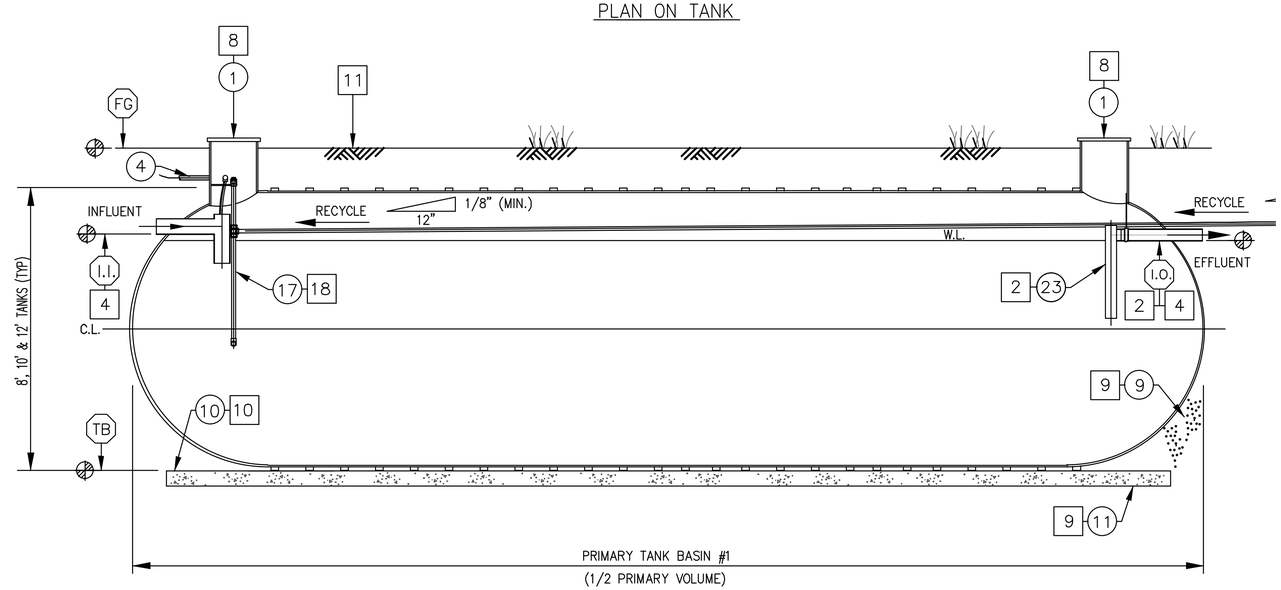
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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
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SCALE: H1"=40' V1"=4'	
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SHEET 05 OF 19	

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PLAN ON TANK



SECTION VIEW

FRP PROCESS TANK COMPONENTS	
ITEM NO. ITEM DESCRIPTION	ITEM NO. ITEM DESCRIPTION
(1) – 24" DIAMETER ACCESS RISER (TYP.)	
	(17) – NITRATE RECYCLE LINE (IF SPECIFIED)
(4) – CARBON FEED CONDUIT (IF SPECIFIED)	
	(23) – EFFLUENT ASSEMBLY
(9) – BACKFILL	
(10) – CONCRETE DEADMEN (IF REQUIRED)	
(11) – COMPACTED GRANULAR BASE	

NOTES:

1. *CONTRACTOR TO COMPLY WITH ALL STARTUP REQUIREMENTS SET FORTH BY THE EQUIPMENT MANUFACTURERS TO ENSURE EQUIPMENT IS OPERATING EFFICIENTLY AT DESIGN CAPACITY.*
2. *THE CONTROL PANEL SHALL BE SUPPLIED BY THE PUMP MANUFACTURER*
3. *THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDRAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL VERIFY ALL PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.*
4. *THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN ALL WATER LINES AND SANITARY SEWER FORCE MAINS.*
5. *FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.*
6. *ALL EQUIPMENT PER APPROVED MANUFACTURERS SHOP DRAWINGS.*
7. *CONTRACTOR SHALL REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.*

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8/28/26	CRP		REVISED PER EGLE COMMENTS

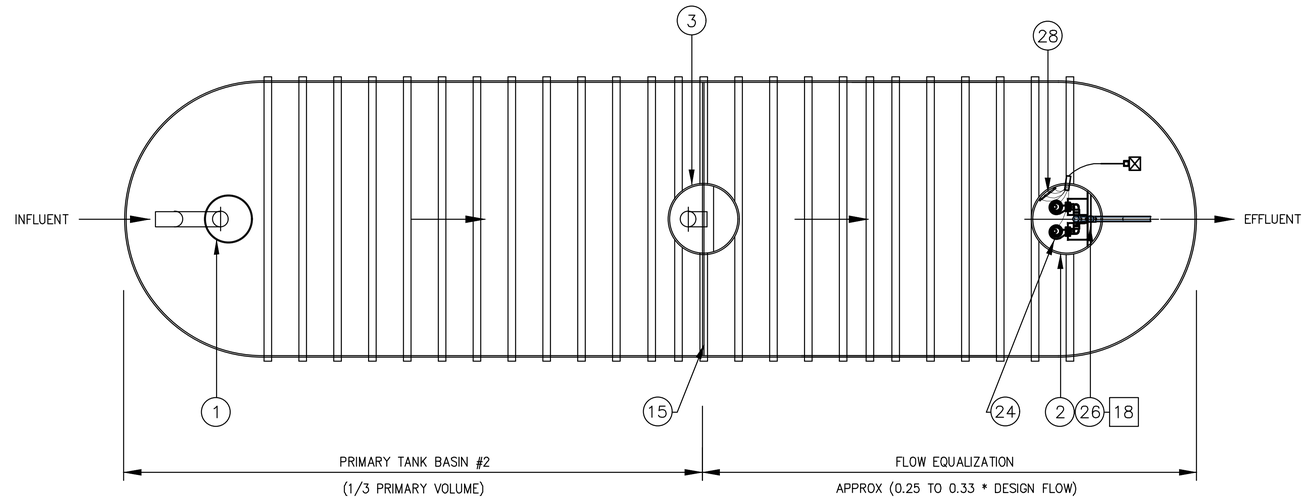
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

PRIMARY TANK PLAN AND PROFILE

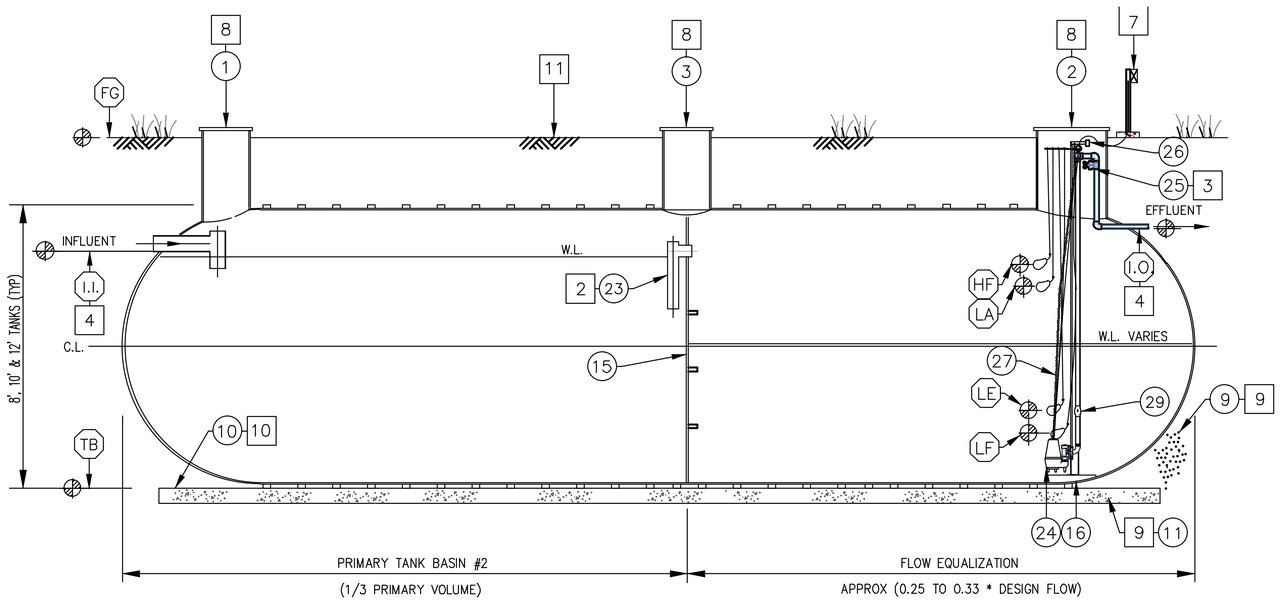
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DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: NOT TO SCALE	
FILE NO. JD-####	06
SHEET 06 OF 19	

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PLAN ON TANK



SECTION VIEW

FRP PROCESS TANK COMPONENTS	
ITEM NO. ITEM DESCRIPTION	ITEM NO. ITEM DESCRIPTION
(1) – 24" DIAMETER ACCESS RISER (TYP.)	(16) – FRP PUMP PLATFORM
(2) – 36" DIAMETER ACCESS RISER (TYP.)	
(3) – 24" OR 36" DIAMETER ACCESS RISER (TYP.)	
	(23) – EFFLUENT ASSEMBLY
(9) – BACKFILL	(24) – EQUALIZATION PUMPS & RAIL ASSEMBLIES
(10) – CONCRETE DEADMEN (IF REQUIRED)	(25) – THROTTLING VALVE (HYDRAULIC)
(11) – COMPACTED GRANULAR BASE	(26) – FRP SUPPORT BRACKET W/ HARDWARE
	(27) – STAINLESS STEEL LIFTING CHAIN
	(28) – STAINLESS STEEL FLOAT BRACKET
	(29) – CHECK VALVE (HYDRAULIC) (BY CONTRACTOR)
(15) – FRP HYDROSTATIC BAFFLE WALLS	

NOTES:

1. *CONTRACTOR TO COMPLY WITH ALL STARTUP REQUIREMENTS SET FORTH BY THE EQUIPMENT MANUFACTURERS TO ENSURE EQUIPMENT IS OPERATING EFFICIENTLY AT DESIGN CAPACITY.*
2. *THE CONTROL PANEL SHALL BE SUPPLIED BY THE PUMP MANUFACTURER*
3. *THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDRAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL VERIFY ALL PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.*
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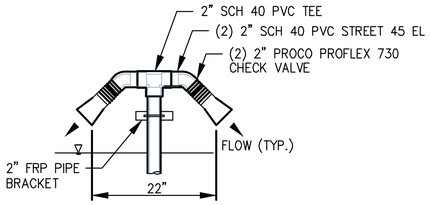
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

EQUALIZATION TANK PLAN AND PROFILE

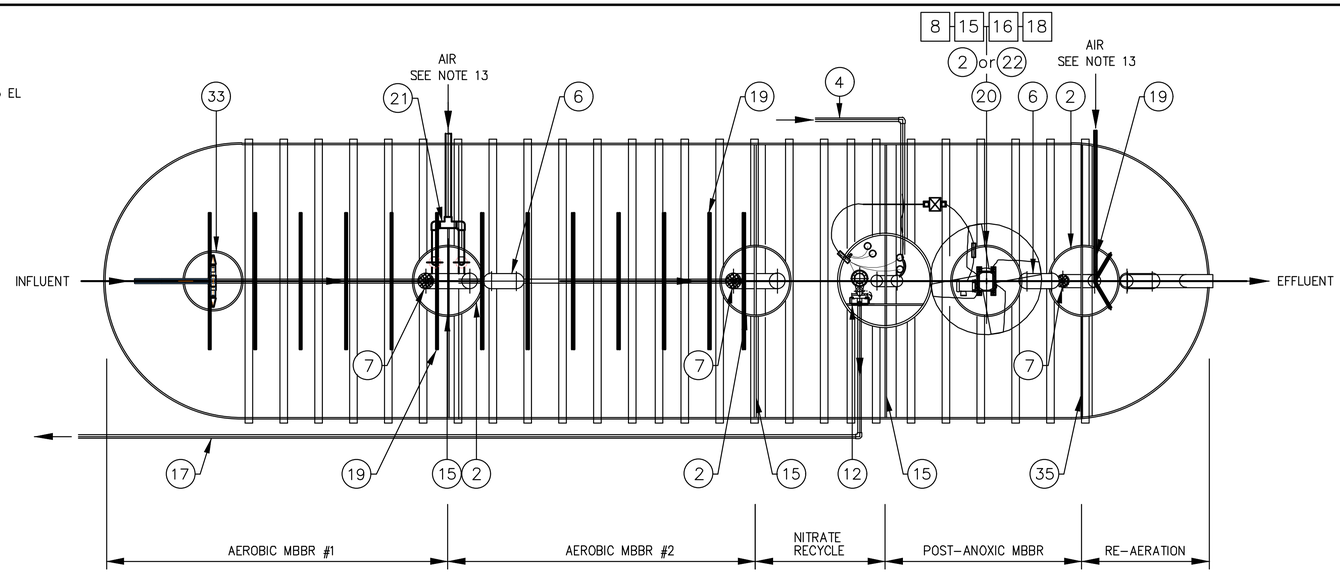
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DR BY: QRP	APP BY: BOH
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FILE NO. JD-####	07
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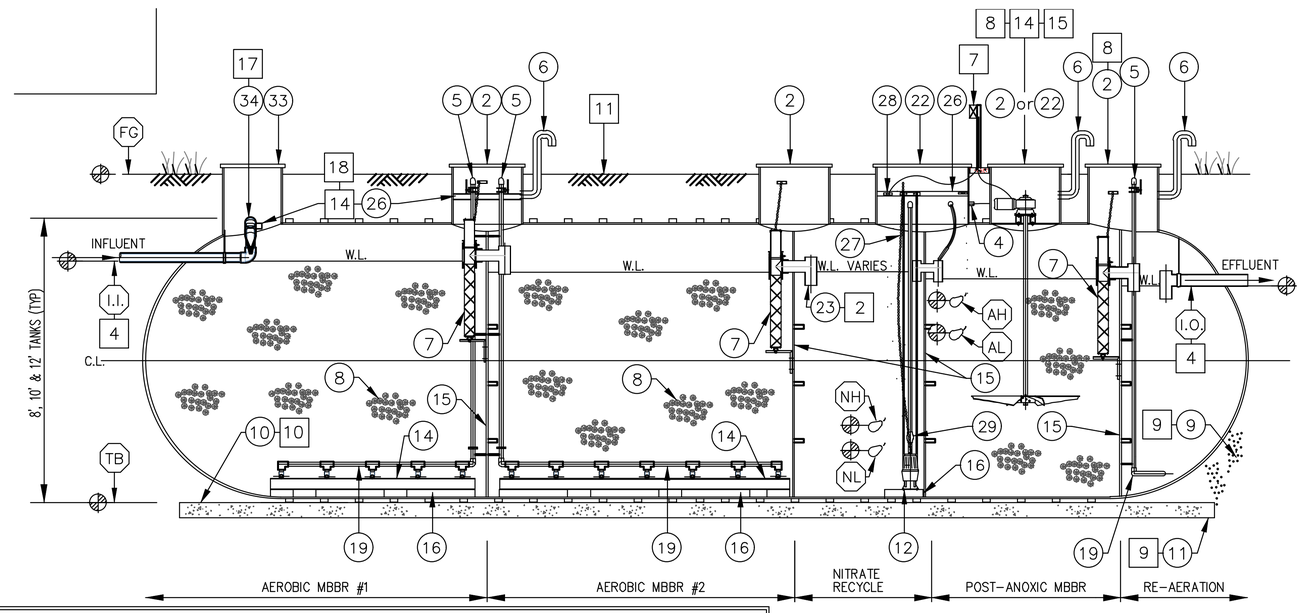
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MBBR 2" INLET ASSEMBLY DETAIL



PLAN ON TANK



FRP PROCESS TANK COMPONENTS		
ITEM NO. ITEM DESCRIPTION	ITEM NO. ITEM DESCRIPTION	ITEM NO. ITEM DESCRIPTION
(1) – 24" DIAMETER ACCESS RISER (TYP.)	(16) – FRP PUMP PLATFORM	
(2) – 36" DIAMETER ACCESS RISER (TYP.)	(17) – NITRATE RECYCLE LINE (IF SPECIFIED)	
	(18) – ANOXIC SLUDGE PUMP & RAIL ASSEMBLY	(33) – 30" DIAMETER ACCESS RISER (TYP.)
(4) – CARBON FEED CONDUIT (IF SPECIFIED)	(19) – AERATION MANIFOLD & SPARGER LATERALS	(34) – 2" AEROBIC MBBR INLET ASSEMBLY
(5) – DROP LEG & VALVE ASSEMBLY (PNUEMATIC)	(20) – TOP MOUNTED MIXER ON PEDESTAL MOUNT	
(6) – 4" PVC VENT	(21) – AERATION HEADER MANIFOLD	
(7) – STAINLESS STEEL MEDIA RETENTION SCREEN	(22) – 48" DIAMETER ACCESS RISER (TYP.)	
(8) – NEUTRALLY BOUYANT HDPE BIOFILM CARRIER ELEMENTS (MEDIA)	(23) – EFFLUENT ASSEMBLY	
(9) – BACKFILL		
(10) – CONCRETE DEADMEN (IF REQUIRED)		
(11) – COMPACTED GRANULAR BASE	(26) – FRP SUPPORT BRACKET W/ HARDWARE	
(12) – NITRATE RECYCLE PUMP & RAIL ASSEMBLY	(27) – STAINLESS STEEL LIFTING CHAIN	
	(28) – STAINLESS STEEL FLOAT BRACKET	
(14) – FRP AERATION GRID SUPPORT PLATFORM	(29) – CHECK VALVE (HYDRAULIC) (BY CONTRACTOR)	
(15) – FRP HYDROSTATIC BAFFLE WALLS		

NOTES:

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3. *THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDRAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL VERIFY ALL PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.*
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5. *ALL EQUIPMENT PER APPROVED MANUFACTURERS SHOP DRAWINGS.*
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DRAWING LOG

DATE	BY	MARK	DESCRIPTION
8/28/26	CRP		REVISED PER EGLE COMMENTS

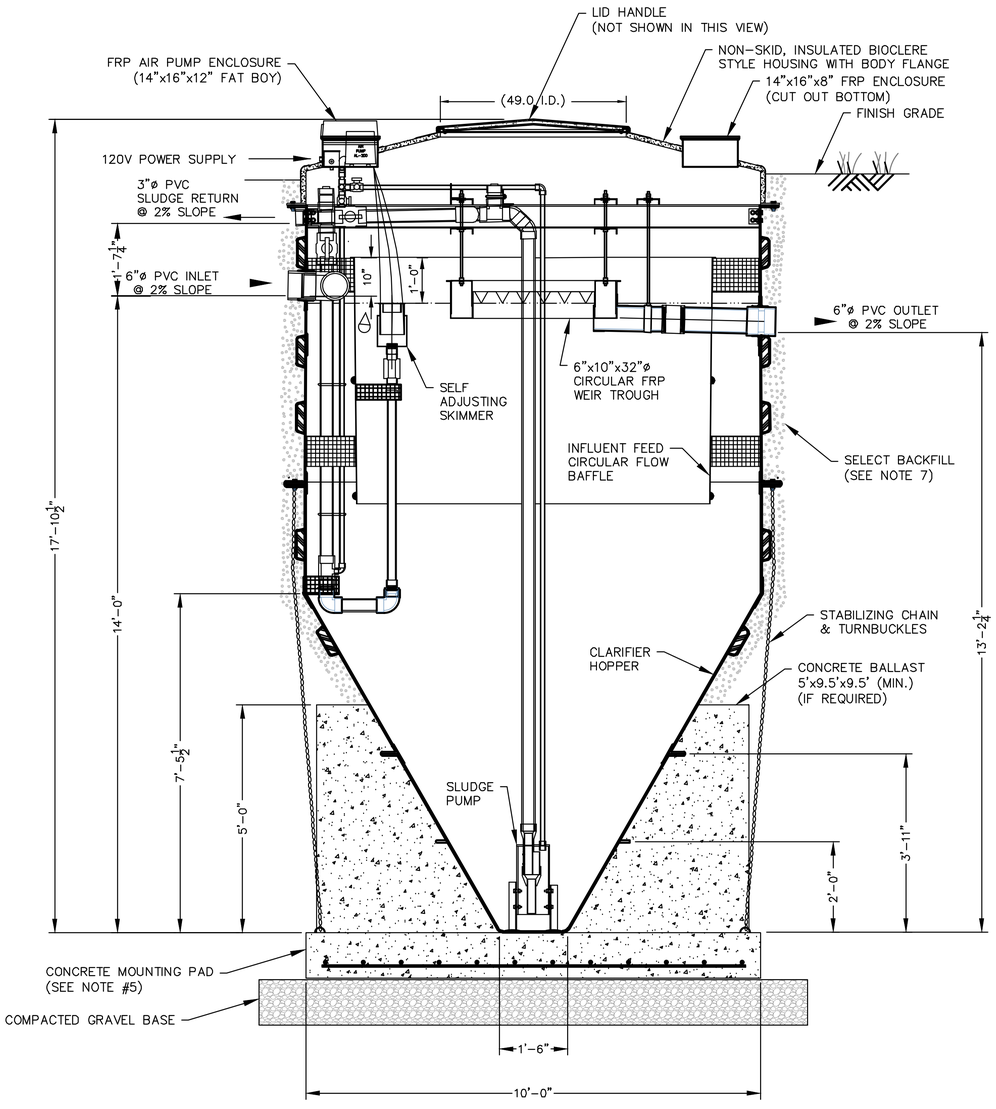
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

MBBR TANK PLAN AND PROFILE

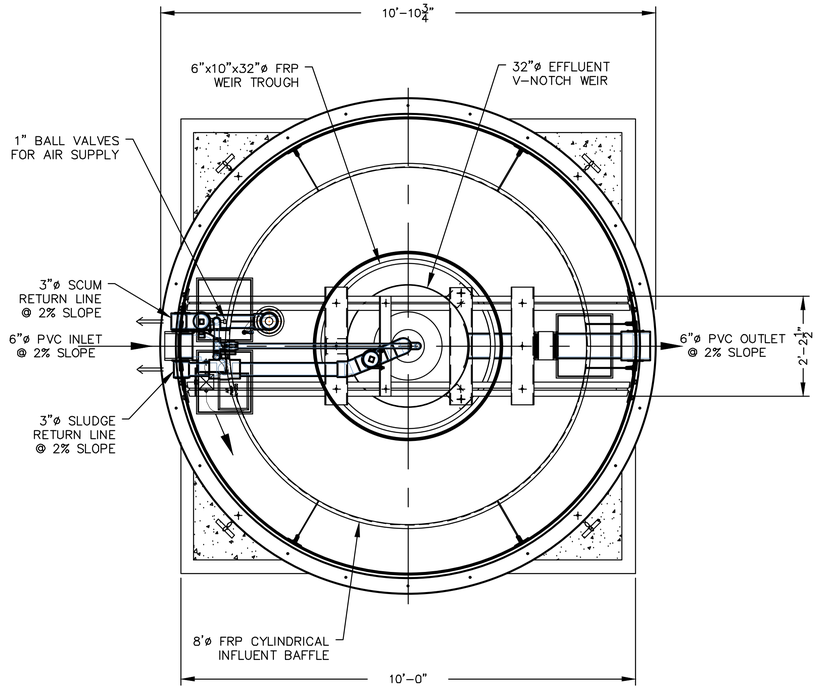
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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: NOT TO SCALE	
FILE NO. JD-####	08
SHEET 08 OF 19	

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SECTION THROUGH CLARIFIER
(OUTFITTED 10' DIA (5,500 GAL.))



PLAN ON OUTFITTED CLARIFIER
(TOP REMOVED)

NOTES:

1. *CONTRACTOR TO COMPLY WITH ALL STARTUP REQUIREMENTS SET FORTH BY THE EQUIPMENT MANUFACTURERS TO ENSURE EQUIPMENT IS OPERATING EFFICIENTLY AT DESIGN CAPACITY.*
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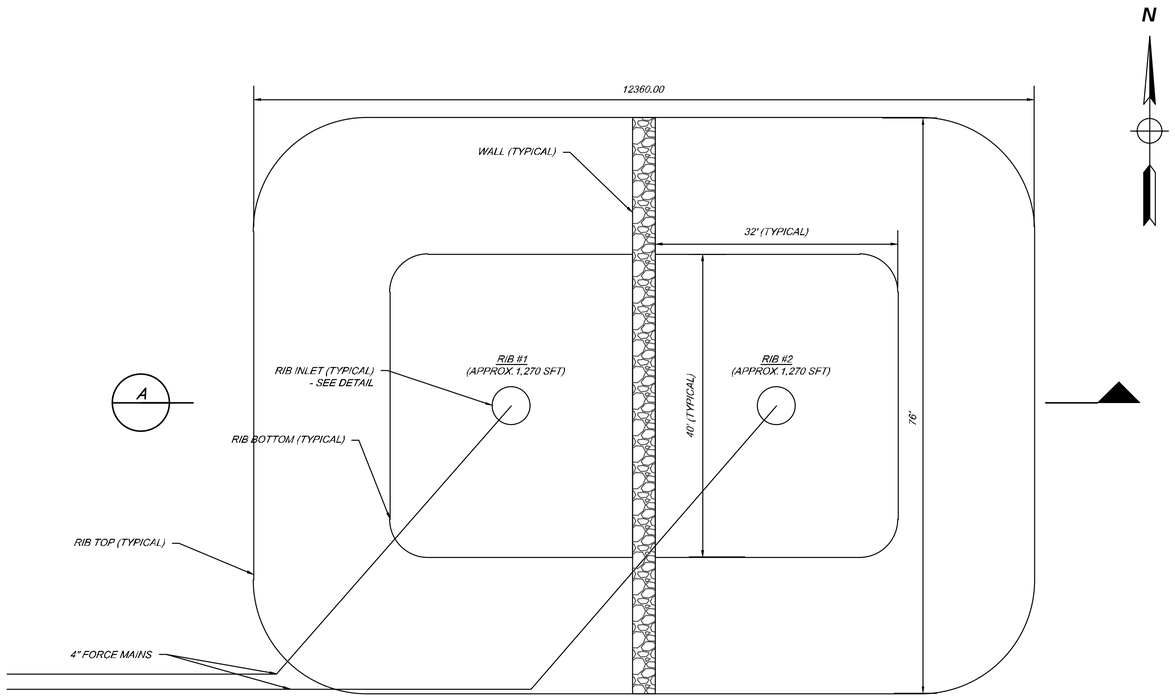
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SPALDING COUNTY, GA

CLARIFIER PLAN AND PROFILE

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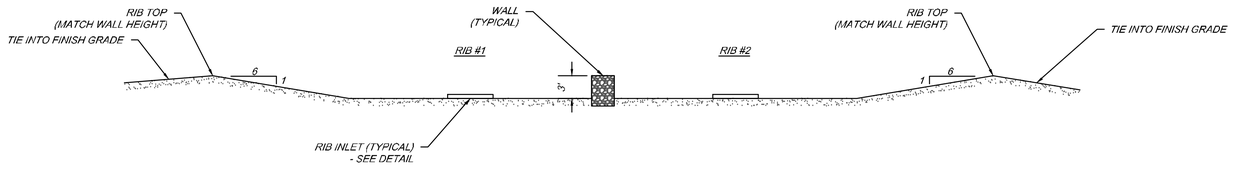
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SHEET 09 OF 19	

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LOWER LEVEL PLAN

SCALE: 1" = 10'

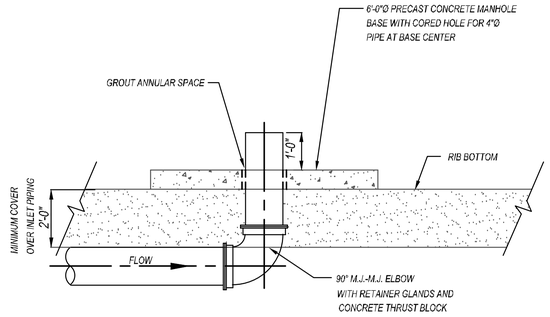


A **SECTION**

SCALE: 1" = 10'

NOTES:

1. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDRAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL VERIFY ALL PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
2. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
3. ALL EQUIPMENT PER APPROVED MANUFACTURERS SHOP DRAWINGS.



RIB INLET DETAIL

NOT TO SCALE

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DATE	BY	MARK	DESCRIPTION
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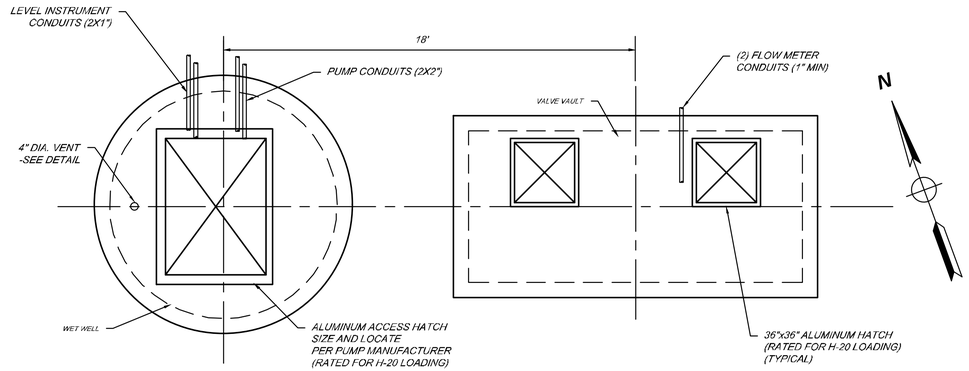
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

RIB PLAN AND SECTION

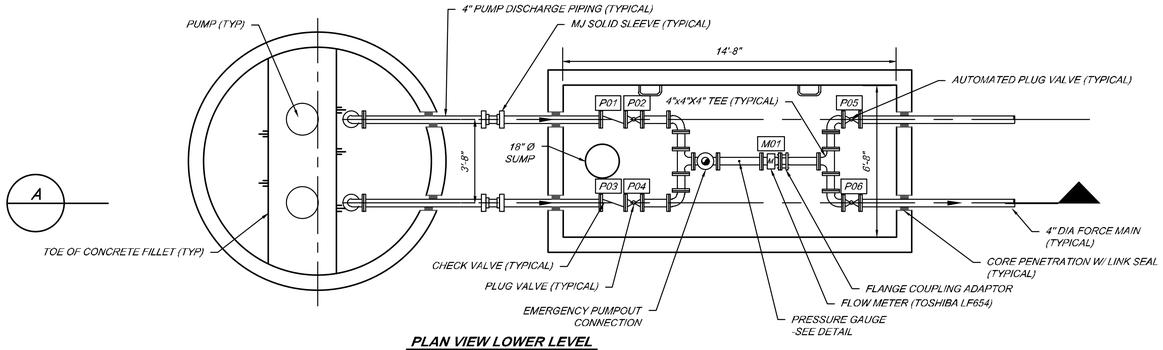
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DE BY: QRP	CH BY: BOH
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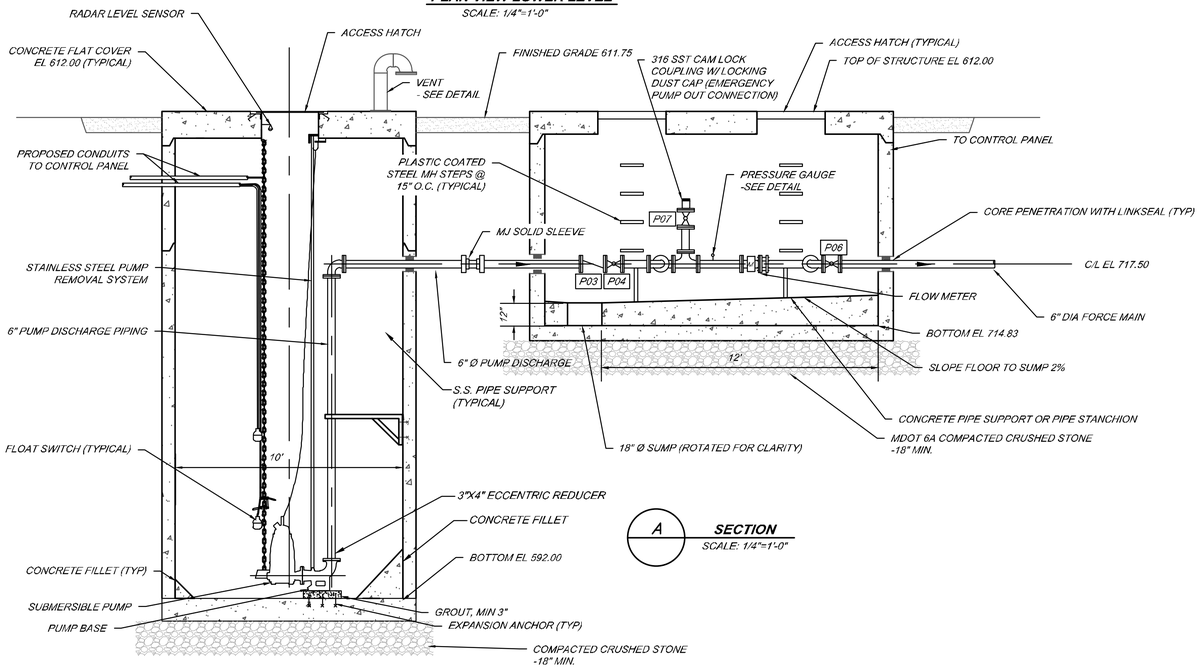
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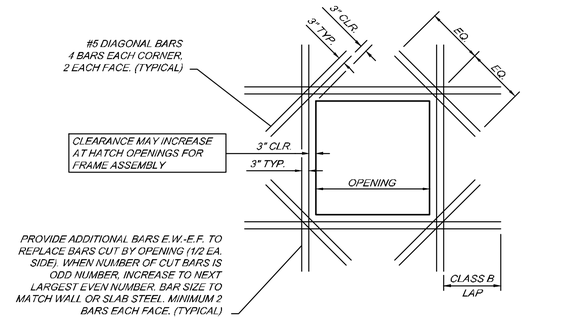
PLAN VIEW GRADE LEVEL
SCALE: 1/4"=1'-0"



PLAN VIEW LOWER LEVEL
SCALE: 1/4"=1'-0"



A **SECTION**
SCALE: 1/4"=1'-0"



TYPICAL REINFORCING DETAIL FOR RECTANGULAR OPENING
NOT TO SCALE

PUMPING SET POINTS	
TOP OF WETWELL	612.00
8" SS INVERT	605.50
HIGH WATER ALARM	604.50
PUMP ON	604.00
PUMP OFF	595.00
LOW WATER ALARM	594.50
BOTTOM OF WETWELL	592.00
WETWELL INSIDE DIAMETER	10 FT

NOTES:

1. CONTRACTOR TO SEE PUMP STATION ELECTRICAL PLAN FOR ELECTRICAL REQUIREMENTS
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDRAL, STATE, AND LOCAL CODES. CONTRACTOR SHALL VERIFY ALL PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
3. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
4. ALL EQUIPMENT PER APPROVED MANUFACTURERS SHOP DRAWINGS.
5. PROVIDE FLANGED SPOOL PIECE THE SAME LAY LENGTH AS METER.
6. THE PUMP SUPPLIER SHALL VERIFY AND CONFIRM ALL HATCH OPENINGS FOR WET WELL CONFORM WITH THE PUMP DIMENSIONS
7. PUMP STATION ACCESS HATCHES SHALL BE ALUMINUM, H-20 LOAD RATED, HALLIDAY SERIES H OR APPROVED EQUAL.
8. THE PIPING INSIDE THE WET WELL AND THE VALVE VAULT SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.

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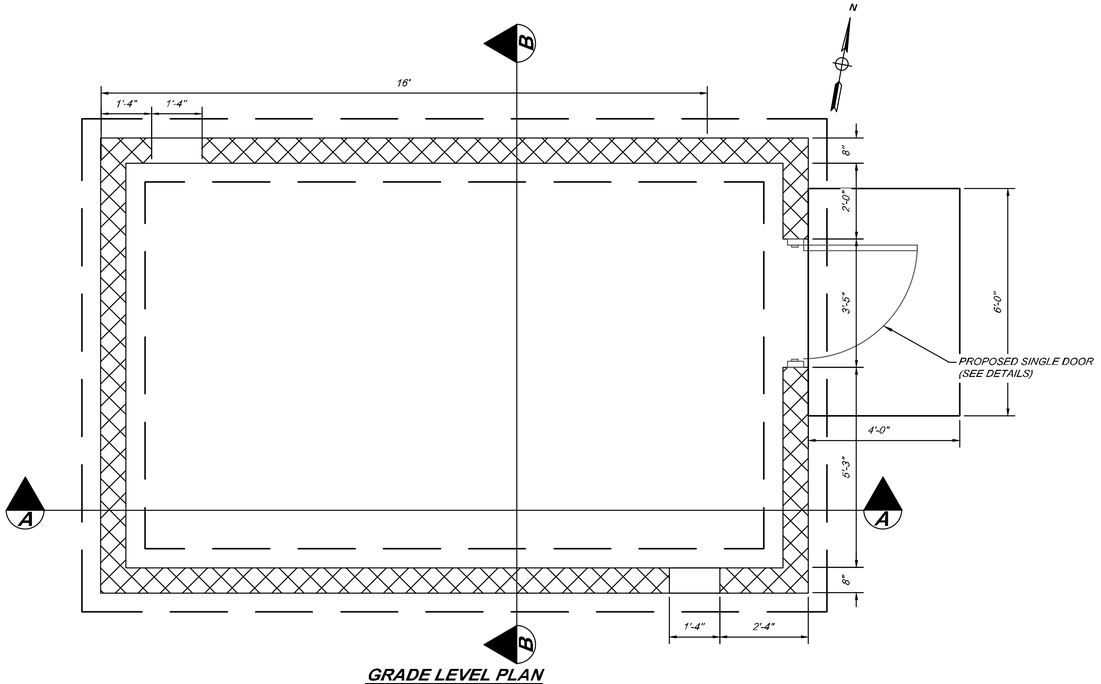
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

PUMP STATION PLAN AND SECTION

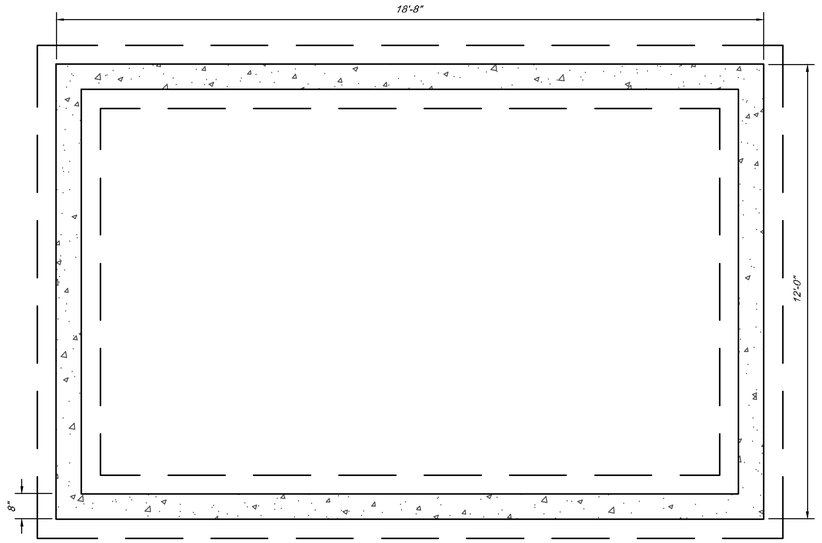
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DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-#####	11
SHEET 11 OF 19	

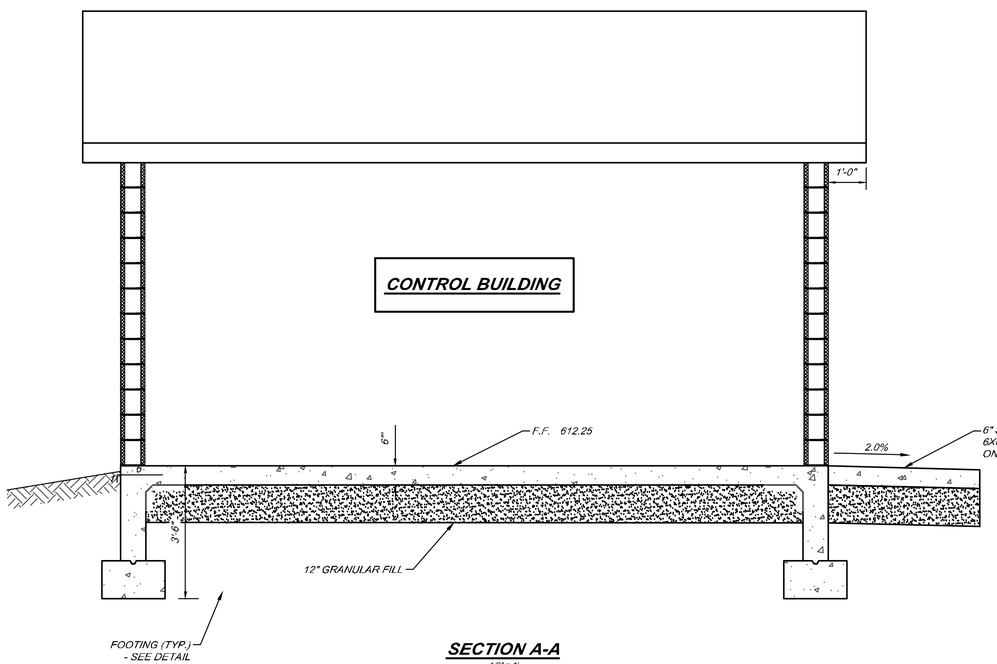
P:\Proj\2025\139-71SG2025\5_The_Bluffs_on_Manistee_Lake_Expansion\42_AutoCAD_GIS\CIVIL_Sheets\MECHANICAL PLAN AND SECTION.dwg • 8/28/2026 11:34:24 AM • PReyes, Quinn R.



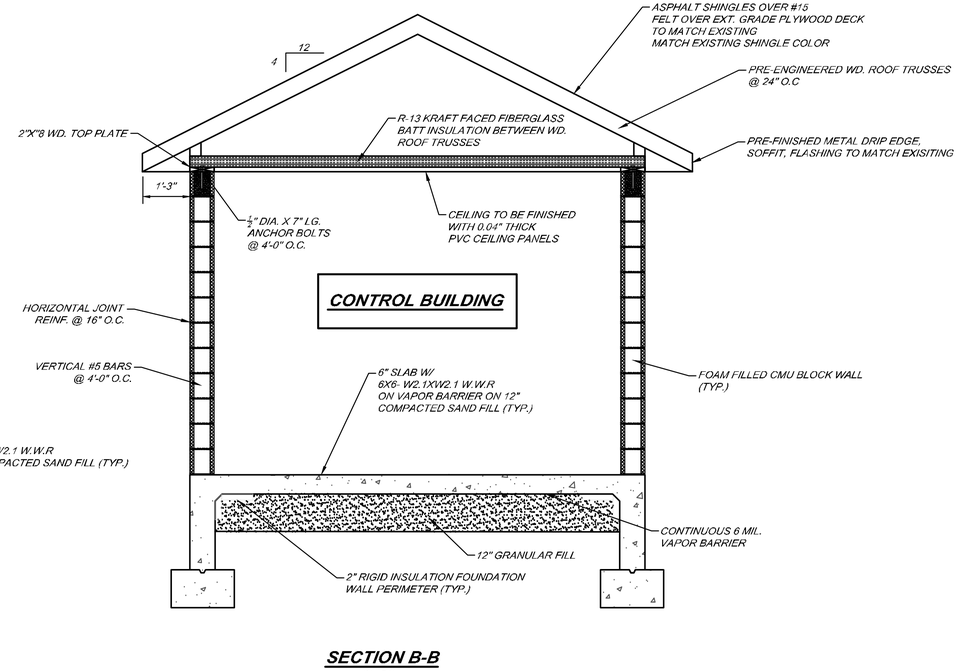
GRADE LEVEL PLAN
1/2" = 1'



FOUNDATION PLAN
1/2" = 1'



SECTION A-A
1/2" = 1'



SECTION B-B
1/2" = 1'

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DRAWING LOG

MARK	DESCRIPTION	BY	DATE
	REVISED PER EGLE COMMENTS	QRP	8/28/25

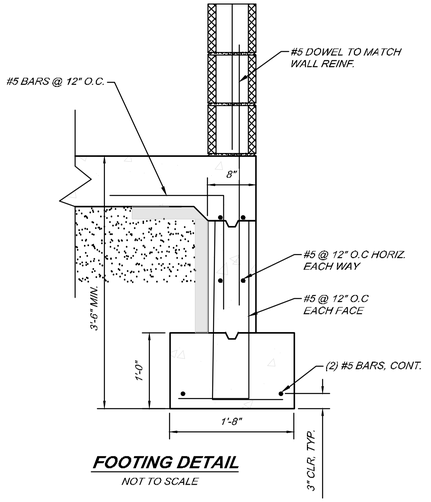
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

STRUCTURAL PLAN AND SECTION

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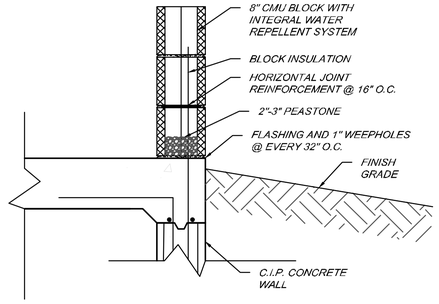
DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	12
SHEET 12 OF 19	

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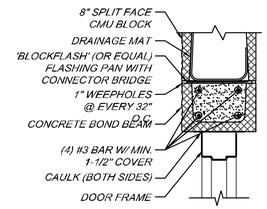
FOOTING DETAIL

NOT TO SCALE



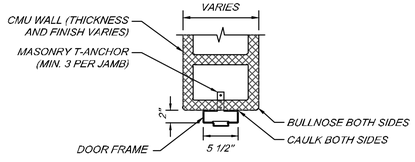
CMU WALL BASE AT SLAB

SCALE: 1" = 1'-0"



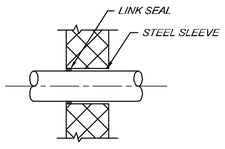
DOUBLE DOOR LINTEL

NOT TO SCALE



TYPICAL DOOR JAMB

SCALE: 1" = 1'-0"



STEEL SLEEVE WITH LINK SEAL THROUGH MASONRY WALL

NOT TO SCALE

DOOR SCHEDULE (x)

NO.	ROOM LOCATION	DOOR					FRAME								HARDWARE SET
		TYPE	MATERIAL	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	TYPE	MATERIAL	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	
(1)	CONTROL BUILDING	A	FRP.	3'-0"	7'-0"	1-3/4"	I	FRP.	3'-4"	7'-4"	2"	–	–	–	1

ALUM.- ALUMINUM, FRP.- FIBERGLASS REINFORCED PANEL OVER WD. SLAB.
*SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

DOOR HARDWARE

HARDWARE GROUP NO. 01
2 4 7
EACH TO HAVE:

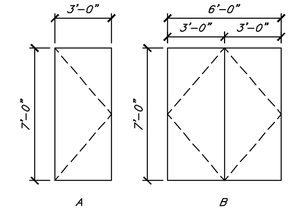
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	700	630	IVE
1	EA	STOREROOM LOCK	L9080P LLL 03B L283-150	630	SCH
1	EA	DOOR PULL	VR900	630	IVE
1	EA	OH STOP & HOLDER	81H	630	GLY
1	EA	GASKETING	314B-S	B	ZER
1	EA	DOOR SWEEP	339WB	B	ZER
1	EA	CAST THRESHOLD	115	ALM	

HARDWARE GROUP NO. 2

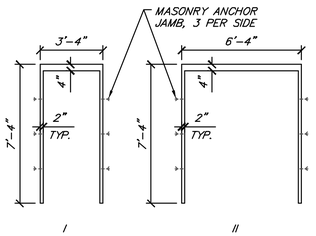
EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	700	630	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	STOREROOM LOCK	L9080P LLL 03B L283-150	630	SCH
1	EA	DOOR PULL	VR900 LLP	630	IVE
2	EA	OH STOP & HOLDER	81H	630	GLY
1	EA	GASKETING	314B-S	B	ZER
2	EA	DOOR SWEEP	339WB	B	ZER
1	EA	CAST THRESHOLD	115	ALM	

THE OVERLAPPING ASTRAGAL WILL BE PROVIDED BY THE DOOR MANUFACTURER AND WILL MOUNT ON THE ACTIVE LEAF.



DOORS



FRAMES

DOORS & FRAME

SCALE: 1/4" = 1'-0"

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DRAWING LOG

DATE	BY	MARK	DESCRIPTION
8/28/26	CRP		REVISED PER EGLE COMMENTS

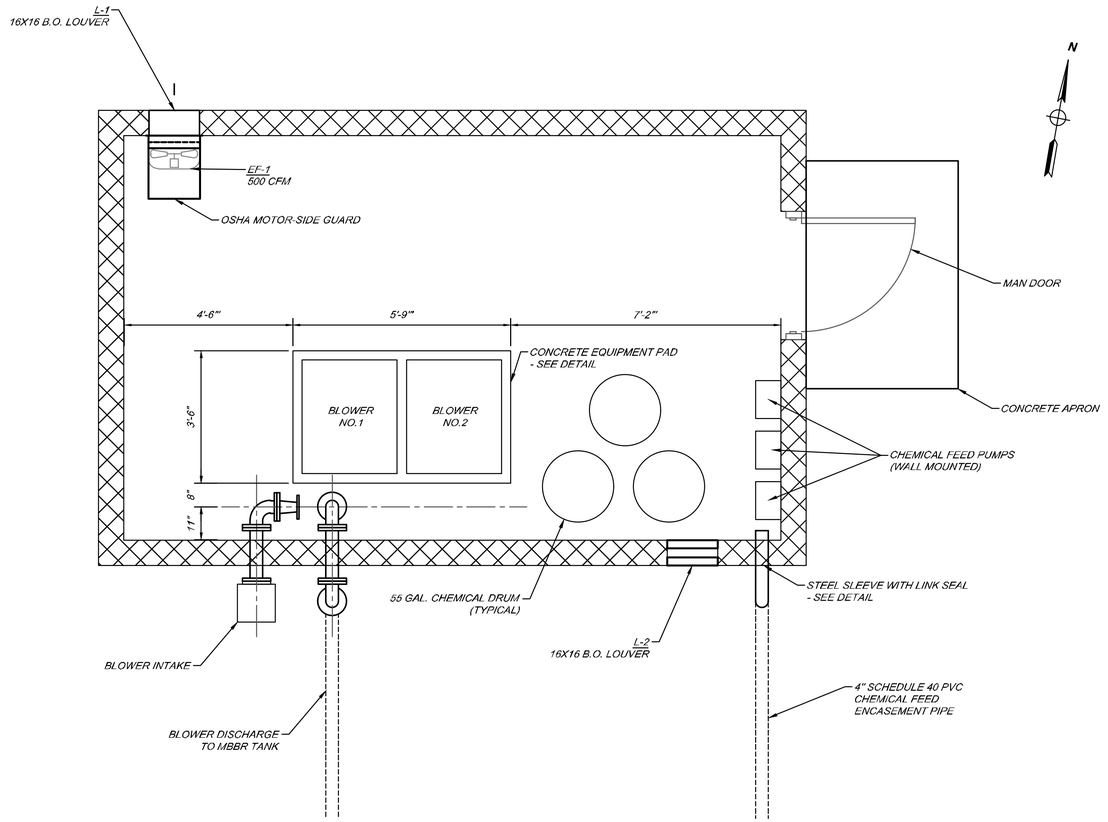
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

STRUCTURAL DETAILS

SPICER GROUP
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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	13
SHEET 13 OF 19	

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MECHANICAL PLAN

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

EXHAUST FAN SCHEDULE

TAG	LOCATION	SERVES	DESCRIPTION	MANUFACTURER & MODEL #	AIRFLOW DATA				NOISE DATA		WEIGHT	CONTROL SEQUENCE	ELECTRICAL DATA			ACCESSORIES & NOTES
					CFM	FAN HP	FAN RPM	E.S.P	SONES	dBA	LBS.		VOLTAGE	F.L.A.	M.F.S.	
EF-1	PUMP ROOM	PUMP ROOM	HEAVY DUTY DIRECT DRIVE WALL PROPELLER FAN, TEFC MOTOR W/ 4000 HR. EPOXY COATING	LOREN-COOK MODEL XWHD 12XWH32D11	500	0.25	1130	0.25"	6.9	N/A	70 LBS.	INTERLOCK WITH CHEMICAL STORAGE ROOM LIGHTS	120V	5.8	15	INCLUDE FOLLOWING ACCESSORIES: 1. NO BACKDRAFT DAMPER 2. INTERIOR EPOXY COATING. 3. NEMA 9 DISCONNECT SWITCH

LOUVER SCHEDULE

TAG	LOCATION	DESCRIPTION	MANUFACTURER & MODEL #	FLANGED	MATERIAL	FINISH	COLOR	DIMENSIONS (IN.)			AIRFLOW DATA				CONTROLS	ACCESSORIES & NOTES
								THICK	WIDTH	HEIGHT	F.A. (SQ.FT.)	CFM	FPM	S.P. (IN. W.G.)		
L-1	CONTROL BUILDING	EXTRUDED STATIONARY LOUVER WITH 4" DRAINABLE BLADES	RUSKIN MODEL ELF375DX	NO	ALUMINUM	EPOXY COATED		4"	16"	16"	0.76	500	657	0.08"	NONE	1. INCLUDE 2-COAT 50% PVDF COATING ON ALL LOUVERS
L-2	CONTROL BUILDING	EXTRUDED STATIONARY LOUVER WITH 4" DRAINABLE BLADES	RUSKIN MODEL ELF375DX	NO	ALUMINUM	EPOXY COATED		4"	16"	16"	0.76	500	657	0.08"	NONE	

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8/28/26	QRP		REVISED PER EGLE COMMENTS

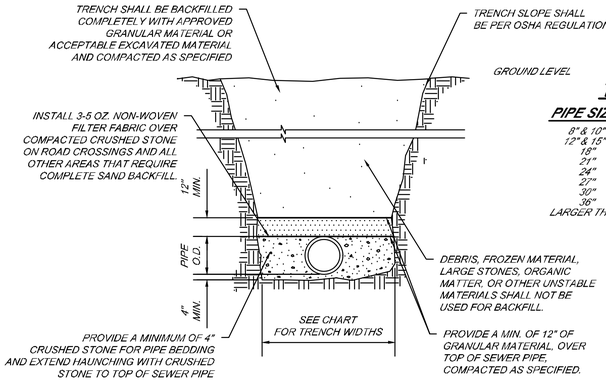
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

CONTROL BUILDING
MECHANICAL

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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	14
SHEET 14 OF 19	

P:\Proj\2025\139871SG2025_Base_Camp_AL_Trans_Lake_Sayville2_Auth\CAD_GIS\C3D_Sheets\STRUCTURAL.dwg - 8/28/2026 11:34:35 AM - Phillips, Quinn R.

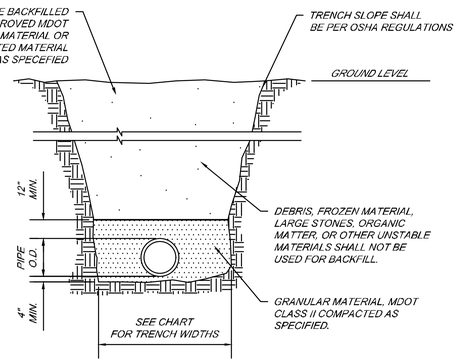


TRENCH WIDTH CHART

PIPE SIZE	MINIMUM	MAXIMUM
8" & 10"	24"	30"
12" & 15"	30"	36"
18"	34"	40"
21"	38"	42"
24"	42"	46"
27"	45"	49"
30"	49"	53"
36"	56"	60"
LARGER THAN 36"	I.D. +20"	I.D. +24"

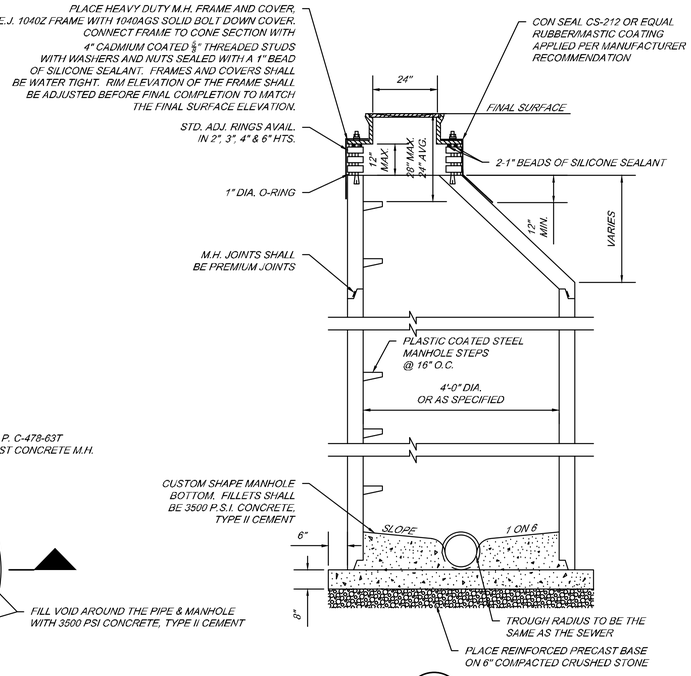
P.V.C. AND HDPE PIPE TRENCH DETAIL

1/4" = 1'-0"



DUCTILE IRON PIPE TRENCH DETAIL

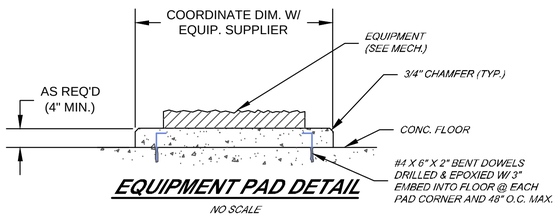
1/4" = 1'-0"



2/1 SECTION

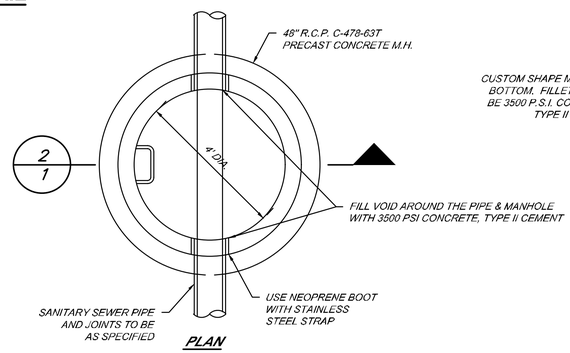
STANDARD MANHOLE

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

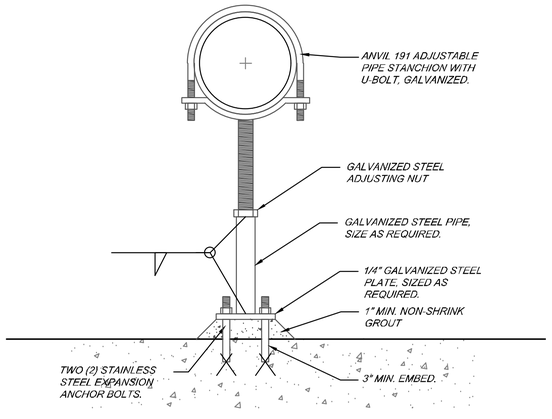


EQUIPMENT PAD DETAIL

NO SCALE

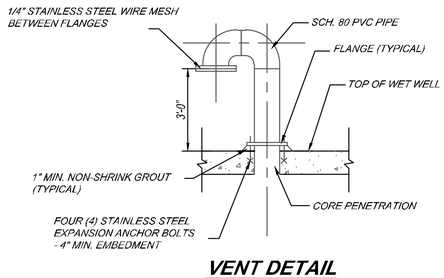


PLAN



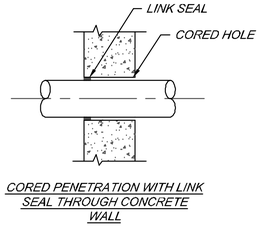
ADJUSTABLE PIPE STANCHION SADDLE

NOT TO SCALE



VENT DETAIL

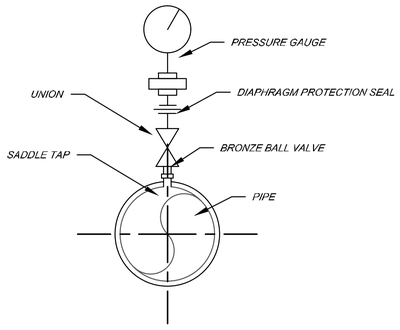
NOT TO SCALE



CORED PENETRATION WITH LINK SEAL THROUGH CONCRETE WALL

CORE PENETRATION DETAIL

NOT TO SCALE



PRESSURE GAUGE DETAIL

NOT TO SCALE

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DRAWING LOG			
DATE	BY	MARK	DESCRIPTION
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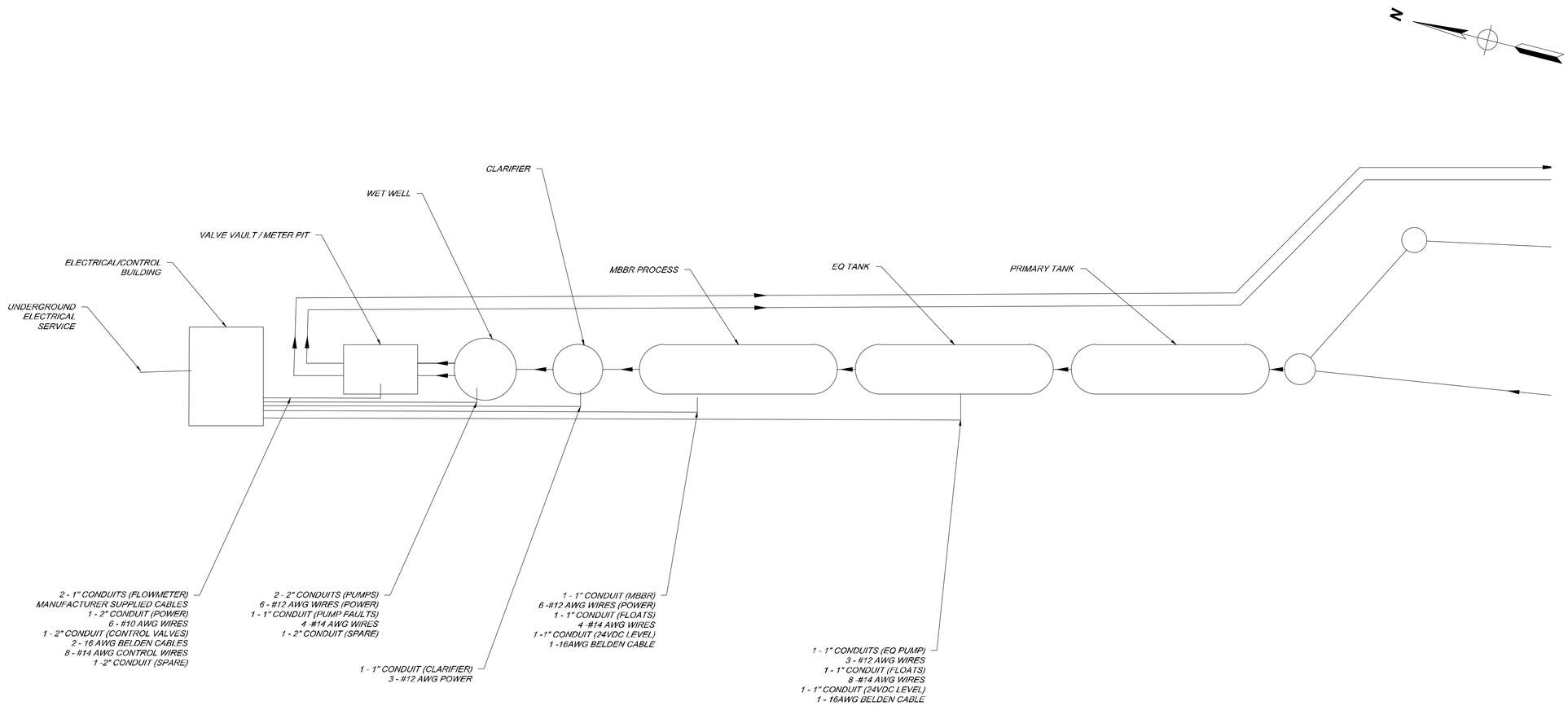
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SPALDING COUNTY, GA

MECHANICAL DETAILS

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DE BY: QRP	CH BY: BOH
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DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	15
SHEET 15 OF 19	

P:\Proj\2025\139\71SG2025_The_Bluffs_on_Manitoba_Lake_Expansion\2_AutoCAD_GIS\CSD_Sheets\MECHANICAL_PLAN AND SECTION.dwg • 8/28/2026 11:34:08 AM • Phelps, Quinn R.



NOTES:

1. EXTERIOR PANELS SHALL BE LOCKABLE, NEMA 3R PAINTED STEEL.
2. 120/240 AND 480 VOLT EQUIPMENT SHALL BE SEPARATED FROM 24 VOLT CONTROLS.
3. ACTUAL PANEL LAYOUT MAY VARY.
4. ATTACH ALL EXTERIOR EQUIPMENT WITH STAINLESS STEEL HARDWARE.
5. PROVIDE STAINLESS STEEL STRAIN RELIEF DEVICES FOR ALL PUMP CORDS IN WET WELL.
6. INSTALL SEAL OFF AND INTRINSICALLY SAFE BARRIERS PER CODE TO ISOLATE HAZARDOUS AREAS.
7. LED PANEL LIGHT TO BE MOUNTED INSIDE CABINET TO ILLUMINATE ALL EQUIPMENT.
8. ALL CONDUITS BENDS SHALL BE LONG SWEEP STYLE.
9. NOT ALL CONDUITS SHOWN, CONTRACTOR REQUIRED TO INSTALL ALL CONDUIT NECESSARY FOR A COMPLETE AN OPERABLE SYSTEM.
10. GROUND ELECTRICAL SERVICE PER NEC.
11. COORDINATE WITH EQUIPMENT MANUFACTURER FOR NUMBER OF CONDUITS AND WIRES FOR EACH PIECE OF EQUIPMENT.

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DRAWING LOG

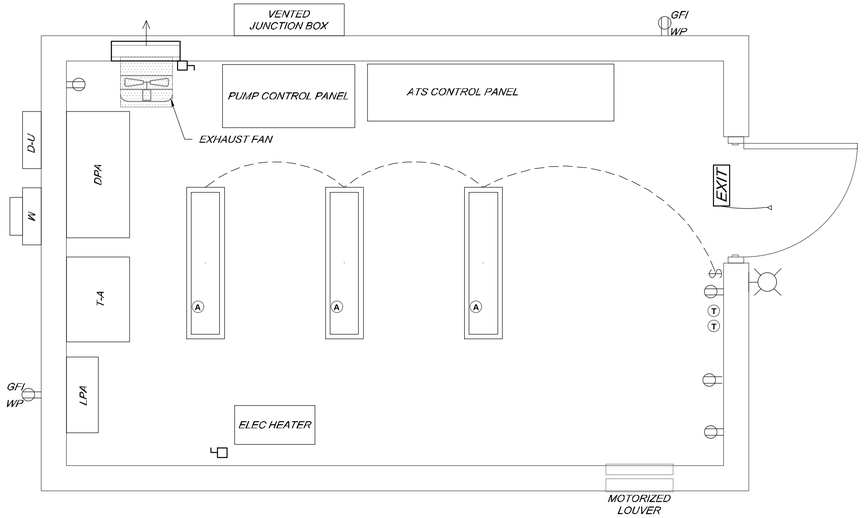
DATE	BY	MARK	DESCRIPTION
5/28/26	QRP		REVISED PER EGLE COMMENTS

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ELECTRICAL SITE PLAN

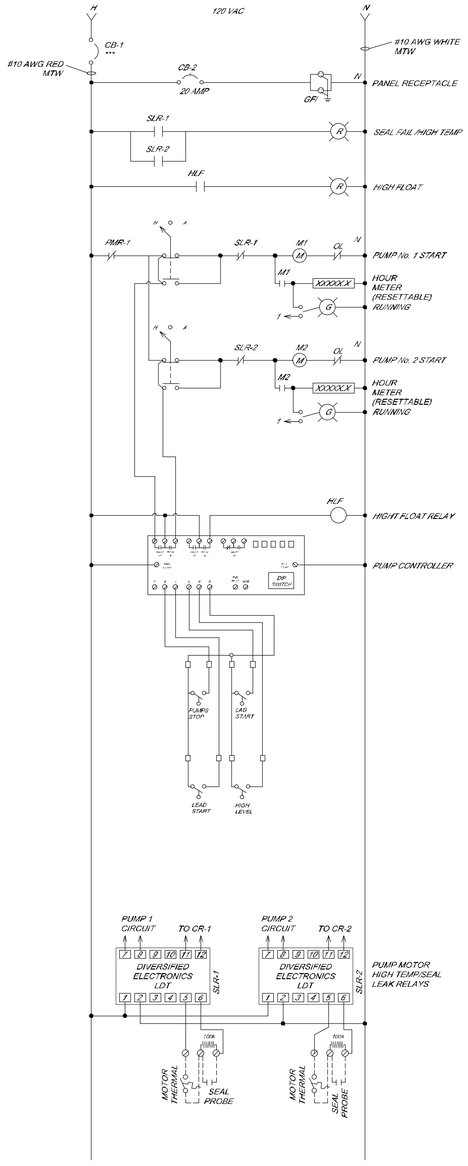
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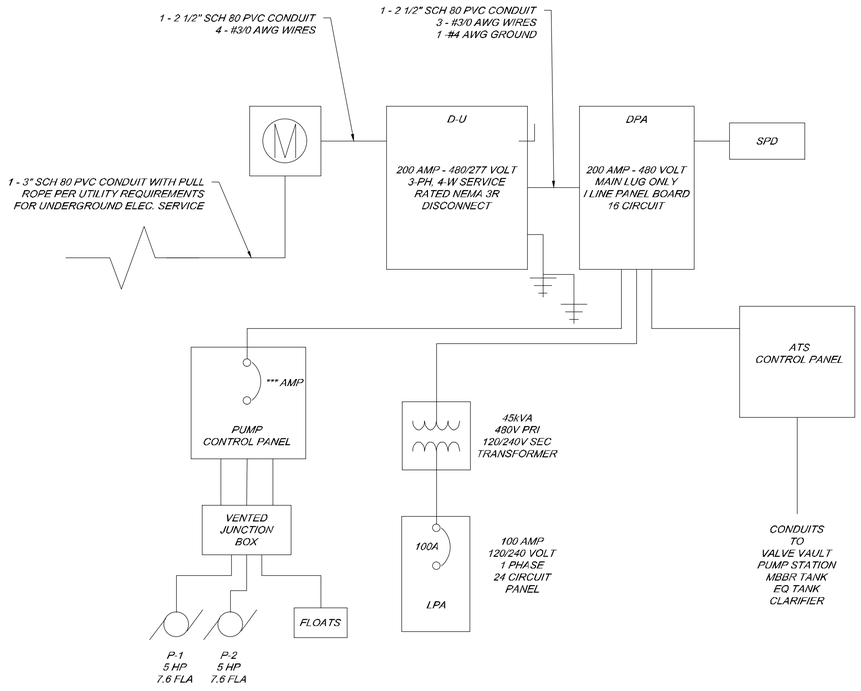
DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	16
SHEET 16 OF 19	



LEGEND

	80 WATT, LED WALL PACK, WITH PHOTOCELL, 11,330 LUMENS, 5000K TYPE IV, SEMI CUT OFF, BROWN IN COLOR.
	120V DUPLEX RECEPTACLE
GFI WP	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER, WITH WEATHER PROOF COVER PLATE: HUBBELL OR APPROVED EQUAL.
	LOCAL DISCONNECT
$	SWITCH, SINGLE POLE
M	ELECTRICAL METER
LPA	LIGHTING PANEL
T-A	TRANSFORMER
DPA	I-LINE DISTRIBUTION PANEL
D-U	SERVICE RATED DISCONNECT
***	SIZED PER MANUFACTURER
(A)	LED WRAPAROUND FIXTURE, 48" X 8-5/8", 3500K, 64 WATT MAX
(T)	REVERSE ACTING THERMOSTAT
(TH)	ELEC. HEATER THERMOSTAT





NOTES:

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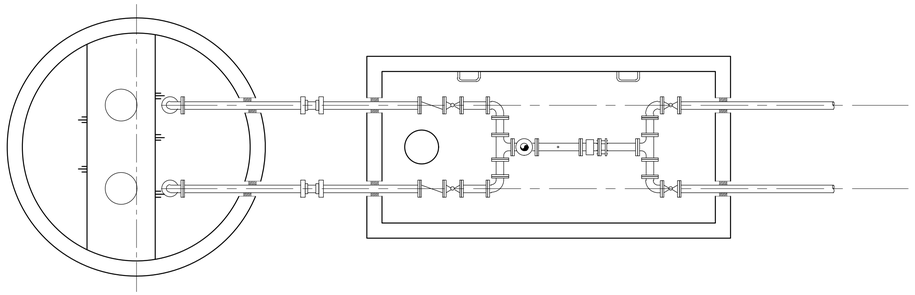
DRAWING LOG			
DESCRIPTION	BY	DATE	MARK
REVISED PER EGLE COMMENTS	QRP	8/28/26	

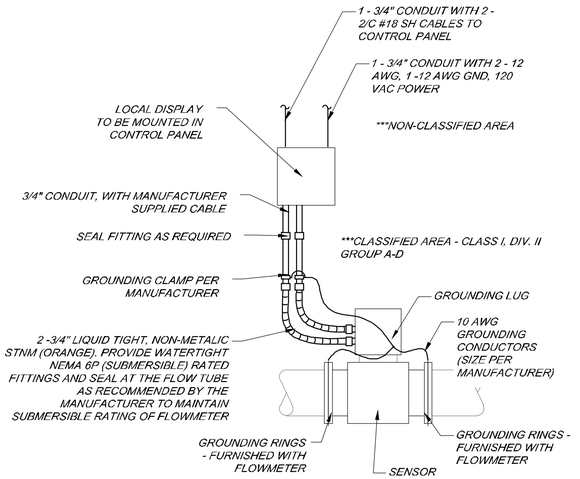
SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

ELECTRICAL PLAN

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DE BY:	QRP	CH BY:	BOH
DR BY:	QRP	APP BY:	BOH
DATE:	MAY, 2026	PROJECT NO.	139871SG2025
SCALE:	AS SHOWN		
FILE NO.	JD-####		17
SHEET	17 OF 19		





FLANGED MAGNETIC FLOWMETER REMOTE TRANSMITTER DETAIL

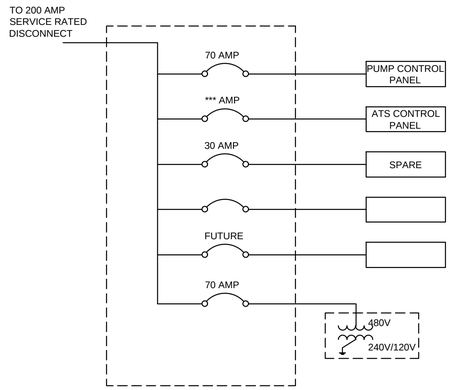
NOT TO SCALE

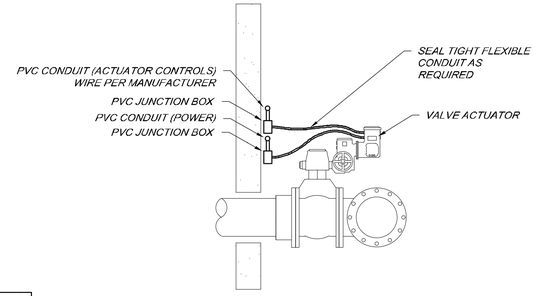
PANEL BOARD SCHEDULE

PANEL: LPA
LOCATION:
VOLTAGE: 120/240V, 100 AMP MAIN BREAKER, 1 PHASE

LOAD DESCRIPTION	LOAD (W)	BREAKER #	CKT #	100 AMP A	100 AMP B	CKT #	BREAKER #	LOAD (W)	LOAD DESCRIPTION
Heater	3750	40	1			2	20		Surge Protection
	3750		3			4	20		Surge Protection
Interior lighting	75	15	5			6	20	1800	Exhaust Fan / Louver
Chemical Feed System	900	20	7			8	20	720	Receptiacles
	900		9			10	20		
		20	11			12	20		
		20	13			14	20		
	0	20	15			16	20		
	0	20	17			18	20	0	Spare
Spare	0	0	19			20	20	0	Spare
Spare	0	20	21			22	20	0	Spare
Spare	0	20	23			24	20	0	Spare
TOTALS	9375			6525	5370			2520	

CONNECTED LOAD	11895	WATTS
CONNECTED LOAD VA PER P (PHASE / 240 =)	27.19	22.38
TOTAL PANEL CONNECT LOAI	61.95	AMPS





NOTES:

1. *EXTERIOR PANEL SHALL BE LOCKABLE, NEMA 3R PAINTED STEEL.*
2. *120/240 AND 480 VOLT EQUIPMENT SHALL BE SEPARATED FROM 24 VOLT CONTROLS.*
3. *ACTUAL PANEL LAYOUT MAY VARY.*
4. *ATTACH ALL EXTERIOR EQUIPMENT WITH STAINLESS STEEL HARDWARE.*
5. *PROVIDE STAINLESS STEEL STRAIN RELIEF DEVICES FOR ALL PUMP CORDS IN WET WELL.*
6. *INSTALL SEAL OFF AND INTRINSICALLY SAFE BARRIERS PER CODE TO ISOLATE HAZARDOUS AREAS.*
7. *LED PANEL LIGHT TO BE MOUNTED INSIDE CABINET TO ILLUMINATE ALL EQUIPMENT.*
8. *ALL CONDUITS BENDS SHALL BE LONG SWEEP STYLE.*
9. *NOT ALL CONDUITS SHOWN, CONTRACTOR REQUIRED TO INSTALL ALL CONDUIT NECESSARY FOR A COMPLETE AN OPERABLE SYSTEM.*

THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE LICENSED PROFESSIONAL FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE LICENSED PROFESSIONAL DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

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DRAWING LOG

DATE	BY	MARK	DESCRIPTION
8/28/26	QRP		REVISED PER EGLE COMMENTS

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

ELECTRICAL DETAILS

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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	18
SHEET 18 OF 19	



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NOTES:

1. FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
2. COORDINATE WORK WITH GOSLING CZUBAK SITE PLAN.
3. REFER TO GOSLING CZUBAK PLANS FOR BENCH MARK INFORMATION.

SANITARY SEWER TABLE

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	RIM ELEV	INVERTS
SAN MH#3	48 INCH DIA	MDOT TYPE B	634.30	8"NE I.E. 626.52 8"S I.E. 626.48
SAN MH#10	48 INCH DIA	MDOT TYPE B	631.66	8"NW I.E. 627.00

STORM SEWER TABLE

STRUCTURE NUMBER	STRUCTURE TYPE	CASTING TYPE	RIM ELEV	INVERTS
STM CB#9	48 INCH DIA	MDOT TYPE D	627.45	12"N I.E. 624.29 12"SW I.E. 624.25
STM CB#21	48 INCH DIA	MDOT TYPE D	631.22	8"NW I.E. 626.22

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0 10 20 40 80

DRAWING LOG

DATE	BY	MARK	DESCRIPTION
8/28/26	CRP		REVISED PER EGLE COMMENTS

SCWA SEWER IMPROVEMENTS
SPALDING COUNTY, GA

LOT P, R, S SITE GRADING

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DE BY: QRP	CH BY: BOH
DR BY: QRP	APP BY: BOH
DATE: MAY, 2026	PROJECT NO. 139871SG2025
SCALE: AS SHOWN	
FILE NO. JD-####	19
SHEET 19 OF 19	

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