RIDGEWOOD WATER PRODUCTION FACILITY

PROJECT NO. 417 SEPTEMBER, 2019

BRUNSWICK - GLYNN COUNTY JOINT WATER & SEWER COMMISSION BRUNSWICK, GEORGIA

COMMISSION MEMBERS

Mr. Ben Turnipseed, PE, Chairman

Mr. Stephen A. Copeland, PE, Vice Chairman

Mr. Bob Duncan

Mr. Donald M. Elliott

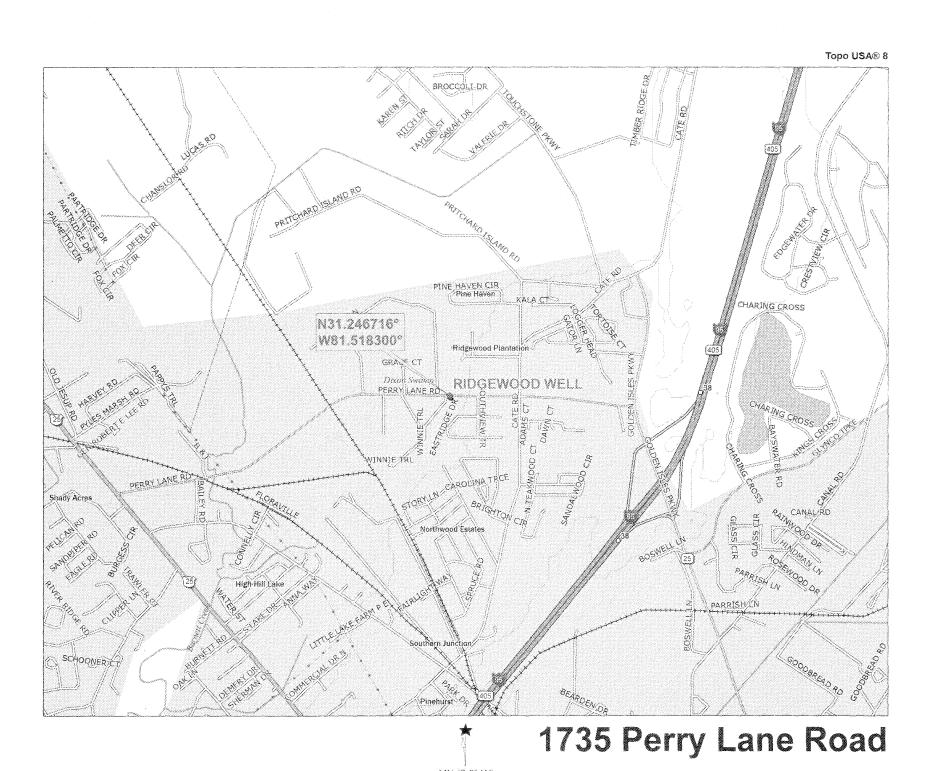
Mr. Cornell L. Harvey

Mr. Wayne Neal

Mr. Tripp Stephens

DEPUTY EXECUTIVE DIRECTOR

Mr. Andrew Burroughs, PE



OWNER

Brunswick-Glynn County
Joint Water & Sewer Commission
1703 Gloucester Street
Brunswick, GA 31520

24-Hour Contact: Todd Kline, PE, Director of Engineering

Emergency #: (912) 634-0258

Planning & Construction Division: (912) 261-7126

Total Distrubed Acres: ± 0.57

CALL BEFORE YOU DIG!

At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1—800—282—7411 to request underground utility locate service.

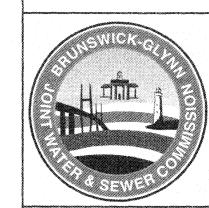
SITE MAP

Contractor shall notify BGJWSC Planning and Construction Division 48 hours before starting work on this project.

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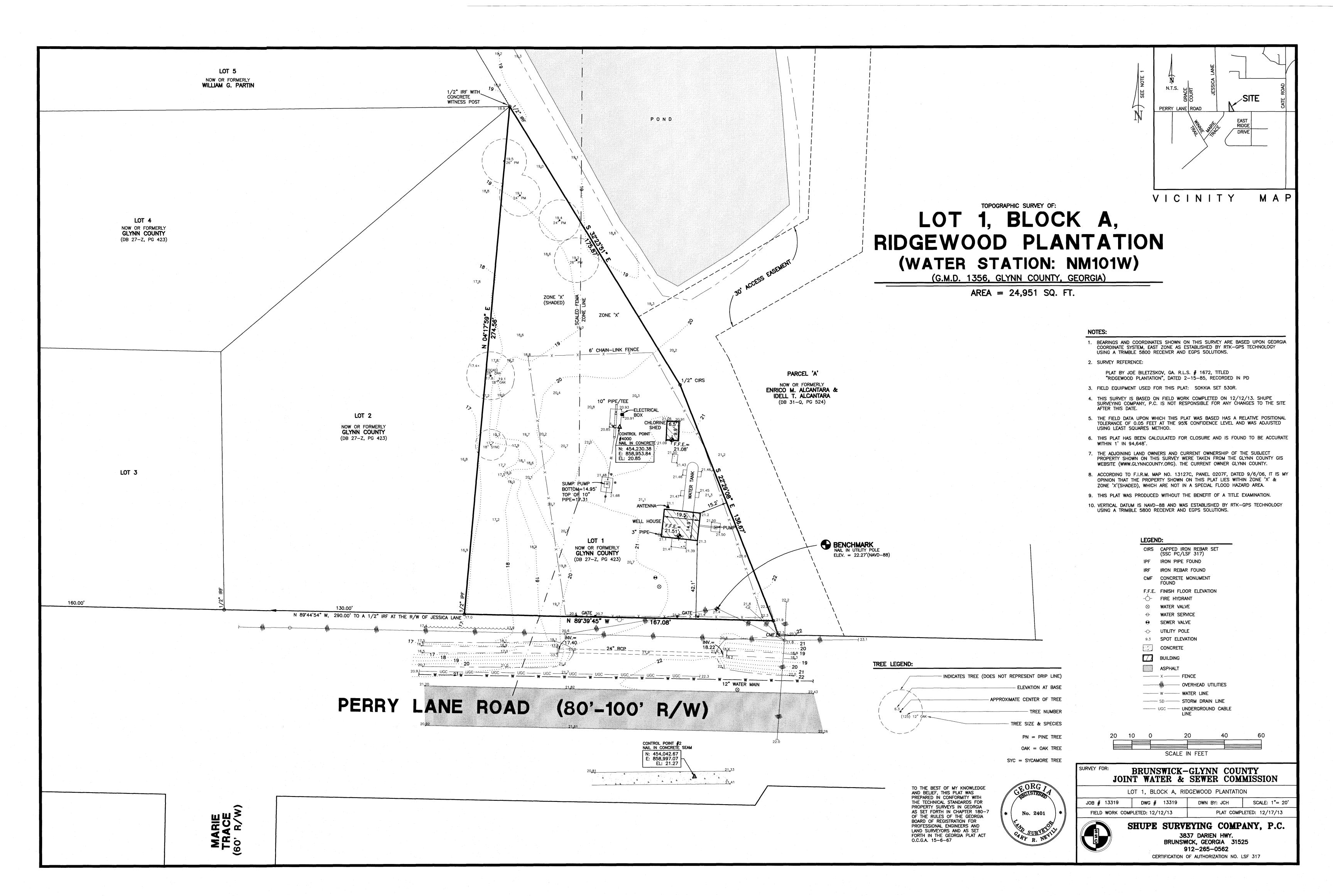
EITHO A. RICHART CONSON, F. F., L.C.

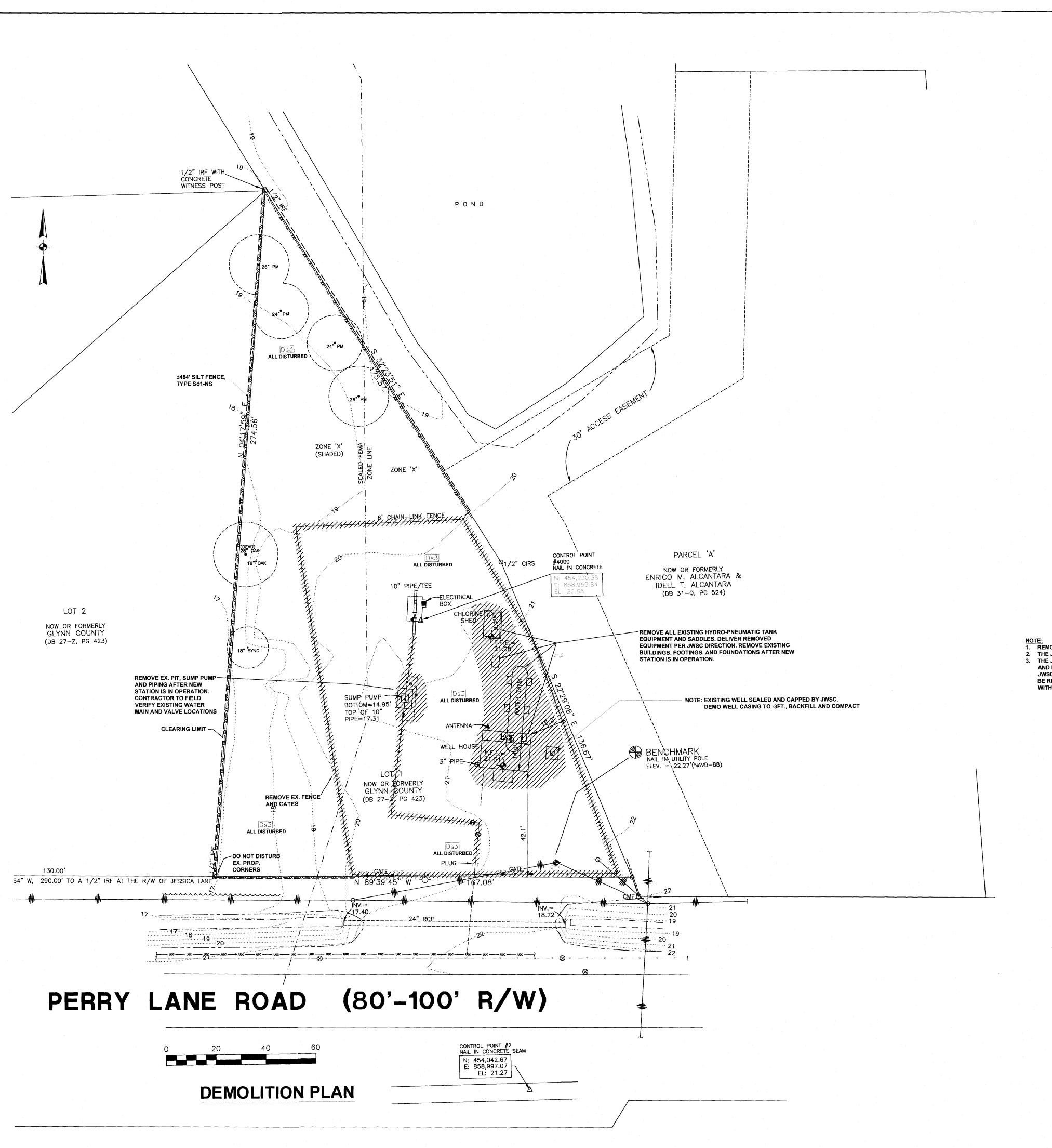
4875 RIVERSIDE DRIVE, SUITE 101. CONSULTING ENGINEERS
MACON, GEORGIA 31210
PHONE: 478.757.1963
FAX: 478.757.1963
The Contractor shall verify & be responsible for all dimensions. DO NOT scale the drawing. Any error or onissions shall be reported to the Engineer of Physics of the Indigenous of the Figure of State of

WICK - GLYNN COUNTY
VATER & SEWER COMMISSION
VOOD
PRODUCTION FACILITY

THE JWSC PROJECT#
417
A 417
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SCALE:
SCALE:
DRAWN/ CHECKED BY:

T-1







- CIRS CAPPED IRON REBAR SET (SSC PC/LSF 317)
- IPF IRON PIPE FOUND
- IRF IRON REBAR FOUND
- CMF CONCRETE MONUMENT
- F.F.E. FINISH FLOOR ELEVATION -O- FIRE HYDRANT
- → WATER SERVICE
- SEWER VALVE -O- UTILITY POLE
- 9.3 SPOT ELEVATION
- CONCRETE
- BUILDING

ASPHALT ---x---x--- FENCE

NOTE:

1. REMOVE ALL TREES. CLEAR AND GRUB ALL PROPERTY WITHIN PROPERTY LIMITS.

2. THE JWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL AT EACH SITE. 3. THE JWSC WILL RETAIN SALVAGE RIGHTS TO ALL MATERIAL AND EQUIPMENT. ALL MATERIALS AND EQUIPMENT RETAINED BY JWSC SHALL BE DELIVERED TO A PLACE DESIGNATED BY THE JWSC SENIOR INSPECTOR. ANY MATERIALS OR EQUIPMENT NOT RETAINED BY THE JWSC SHALL BE REMOVED FROM THE SITE AND DISPOSED OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH THE APPLICABLE REGULATION.



At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411 to request underground utility locate service.

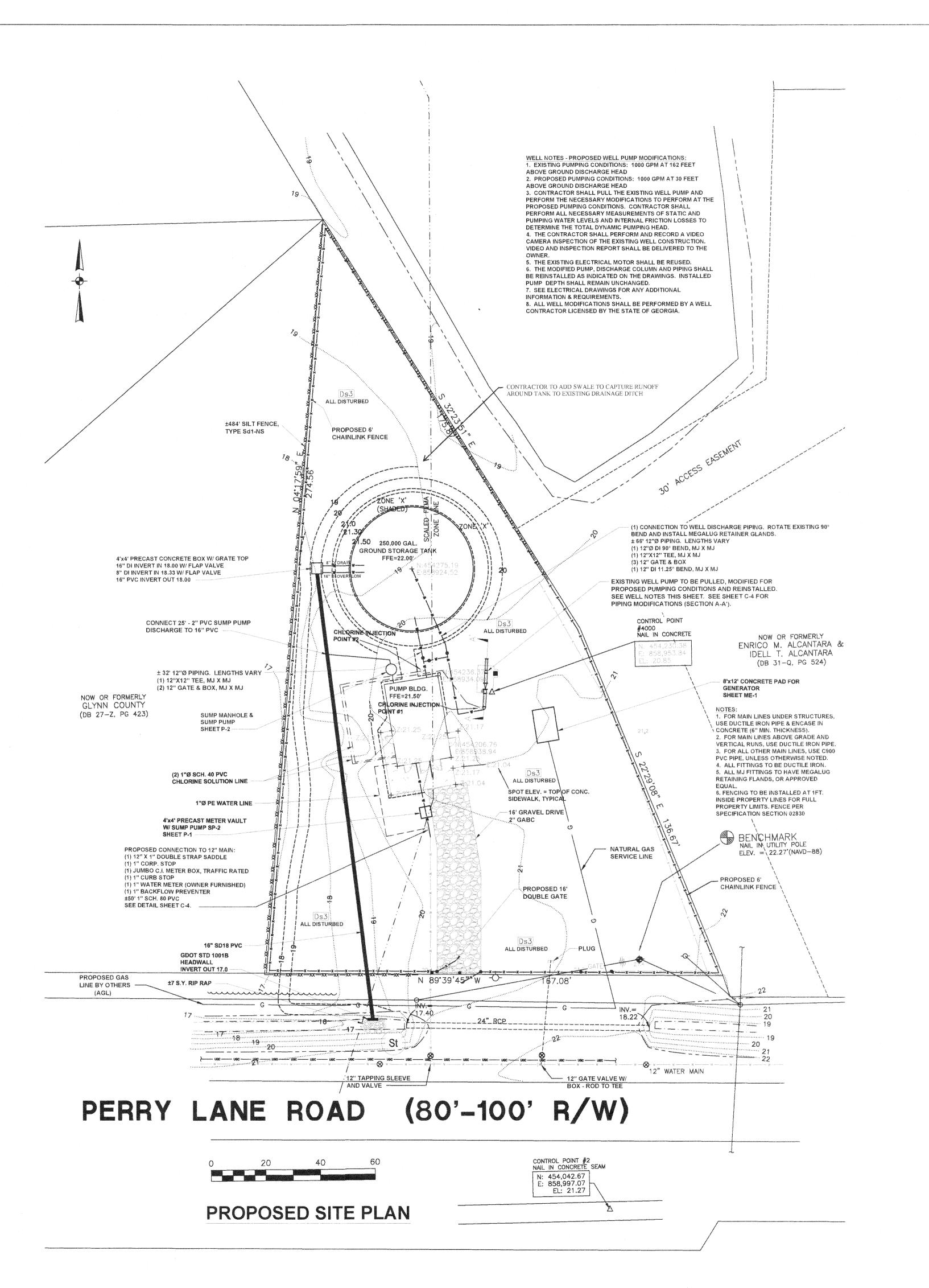




- GLYNN COUNTY R & SEWER COMMISSION WATER

SHEET NO.

C-2



LEGEND:

CIRS CAPPED IRON REBAR SET (SSC PC/LSF 317) IPF IRON PIPE FOUND

IRF IRON REBAR FOUND

CMF CONCRETE MONUMENT

F.F.E. FINISH FLOOR ELEVATION -O- FIRE HYDRANT

→ WATER SERVICE

SEWER VALVE

-O- UTILITY POLE 9.3 SPOT ELEVATION

CONCRETE

Z BUILDING

ASPHALT

EROSION CONTROL NOTES:

- 1. IN AS MUCH AS THE TOTAL DISTURBED AREA FOR THIS PROJECT IS LESS THAN 1.0 ACRES, A NOTICE OF INTENT FOR COVERAGE UNDER THE NPDES GENERAL PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES IS NOT REQUIRED FOR THIS PROJECT.
- 2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY AFTER CONSTRUCTION IN ACCORDNACE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA WITH VEGETATIVE PRACTICES APPROPRIATE FOR THE REGION. EXISTING LAWNS AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- 4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT SEDIMENT AT THE SOURCE.
- 5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

CALL BEFORE YOU DIG!

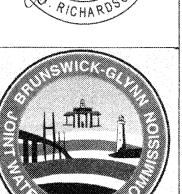
underground utility locate service.

At least 72 hours prior to commencement of the work,

Protection Center (UPC) at 1-800-282-7411 to request

the Contractor is responsible for calling the Utilities

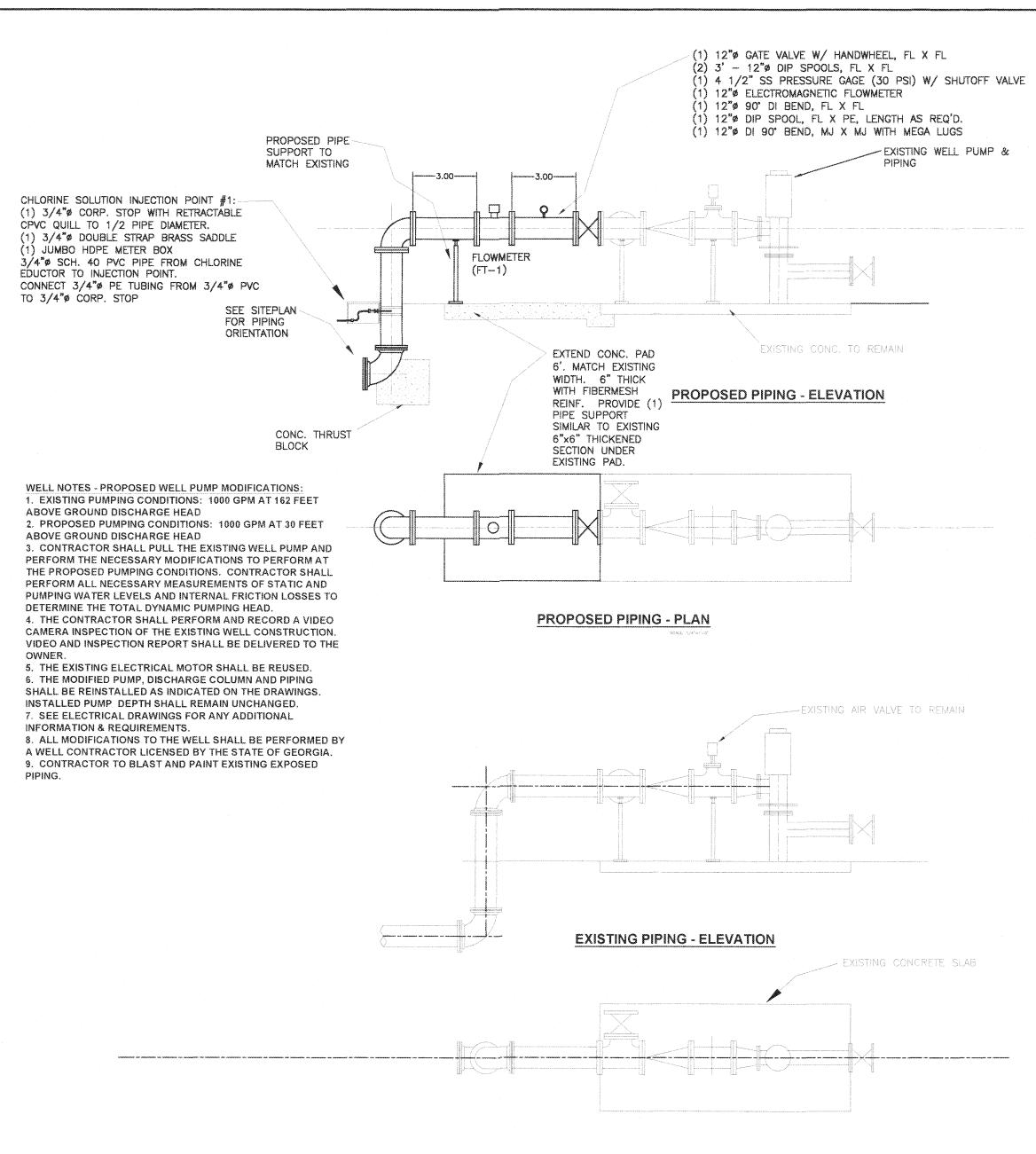




REVISIONS

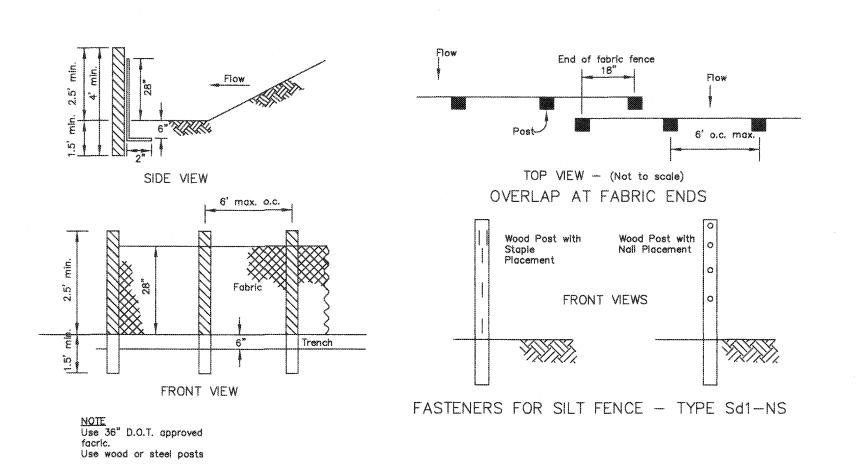
GLYNN COUNTY & SEWER COMMISSION

SHEET NO.



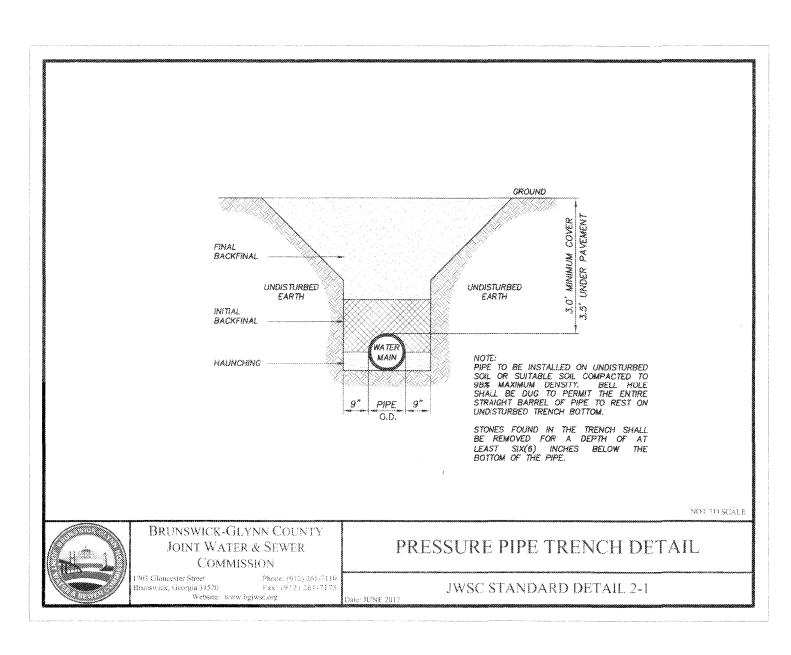
EXISTING PIPING - PLAN

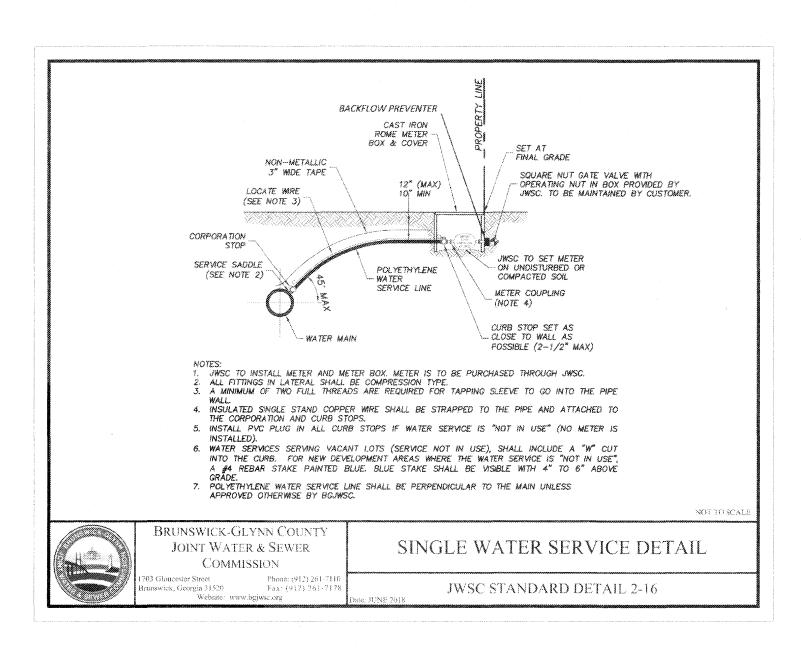
SECTION A-A' WELL PIPING MODIFICATIONS

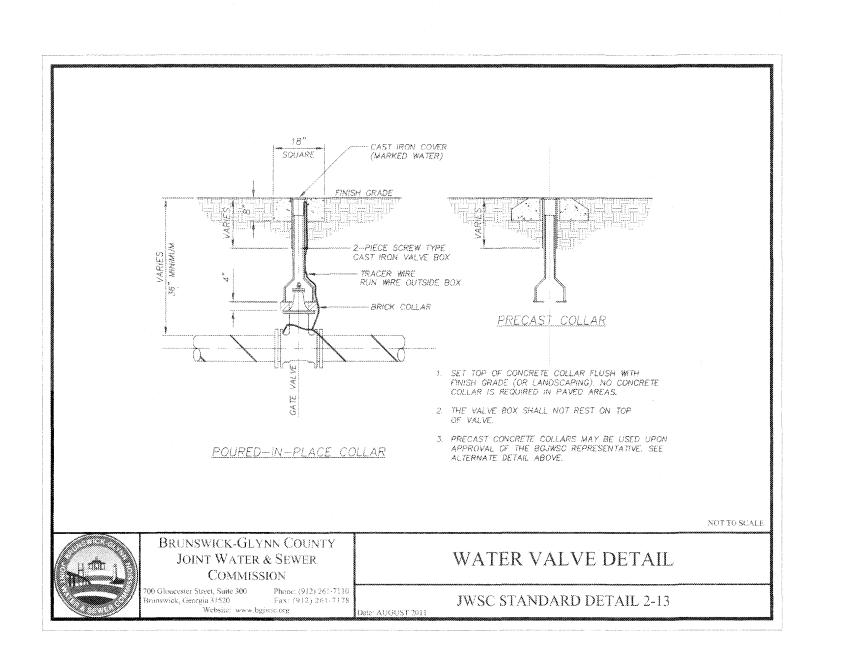


SEDIMENT BARRIER SILT FENCE N.T.S.

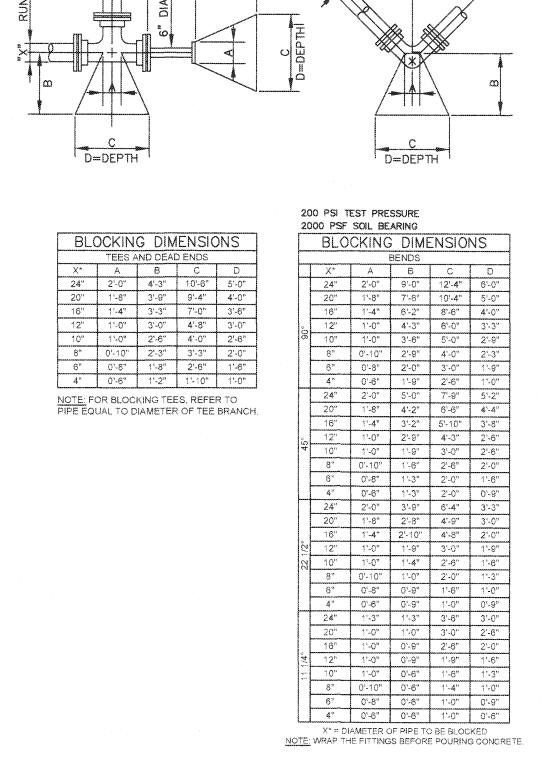
Sd1-NS



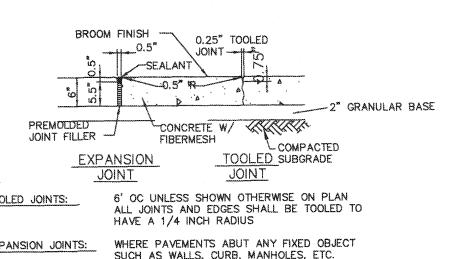




		PERM	<u>ANENT VEGET</u>	AIION - Ds3		
	PEI	RMANENT PLANT :	SPECIES, SEEDIN	G RATES & PLANTI	NG DATES	
SPECIES	RATE / ACRE	RATE / 1000SF	PLANTING DATES, REGION M-L	PLANTING DATES, REGION P	PLANTING DATES, REGION C	REMARKS
BAHA, PENSACOLA (alone or with temporary cover with other perennials)	60 lb./ 30 lb.	1.4 lb./ 0.7 lb.	xxxxxxx	4/1 - 5/31	3/1 - 5/31	Low growing; sod producing; will spread into Bermuda lawns
BAHIA, WILMINGTON (alone or with temporary cover with other perennials)	60 lb./ 30 lb.	1.4 lb./ 0.7 lb.	3/15 - 5/31	3/15 - 5/31	xxxxxxx	Same as above.
BERMUDA, COMMON (HULLED SEED) (alone or with temporary cover with other perennials)	10 lb. / 6 lb.	0.2 lb. / 0.1 lb.	XXXXXXXX	4/1 - 5/31	3/15 - 5/31	Quick cover; low growing; sod forming; needs full sun.
BERMUDA, COMMON (UNHOLLED SEED) (alone or with temporary cover with other perennials)	10 lb. / 6 lb.	0.2 lb. / 0.1 lb.	XXXXXXXX	10/1 - 2/28	11/1 - 1/31	Plant with Winter annuals. Plant with tall fescue.
BERMUDA, SPRIGS (common law n & forage hybrids)	40 CF, Sod Plugs 3'X3'	0.9 OF, Sod Plugs 3'X3'	4/15 - 6/15	4/15 - 6/15	4/1 - 5/31	1 cu.ft. = 650 springs; 1 bushel = 1.25 cu.ft. or 800 sprigs.



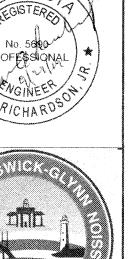
TYPICAL BLOCKING DETAIL



SIDEWALK JOINTING

EXPANSION JOINTS: WHERE PAVEMENTS ABUT ANY FIXED OBJECT SUCH AS WALLS, CURB, MANHOLES, ETC. AND AT INTERVALS NOT EXCEEDING 40 FEET **CONCRETE SIDEWALK AND**



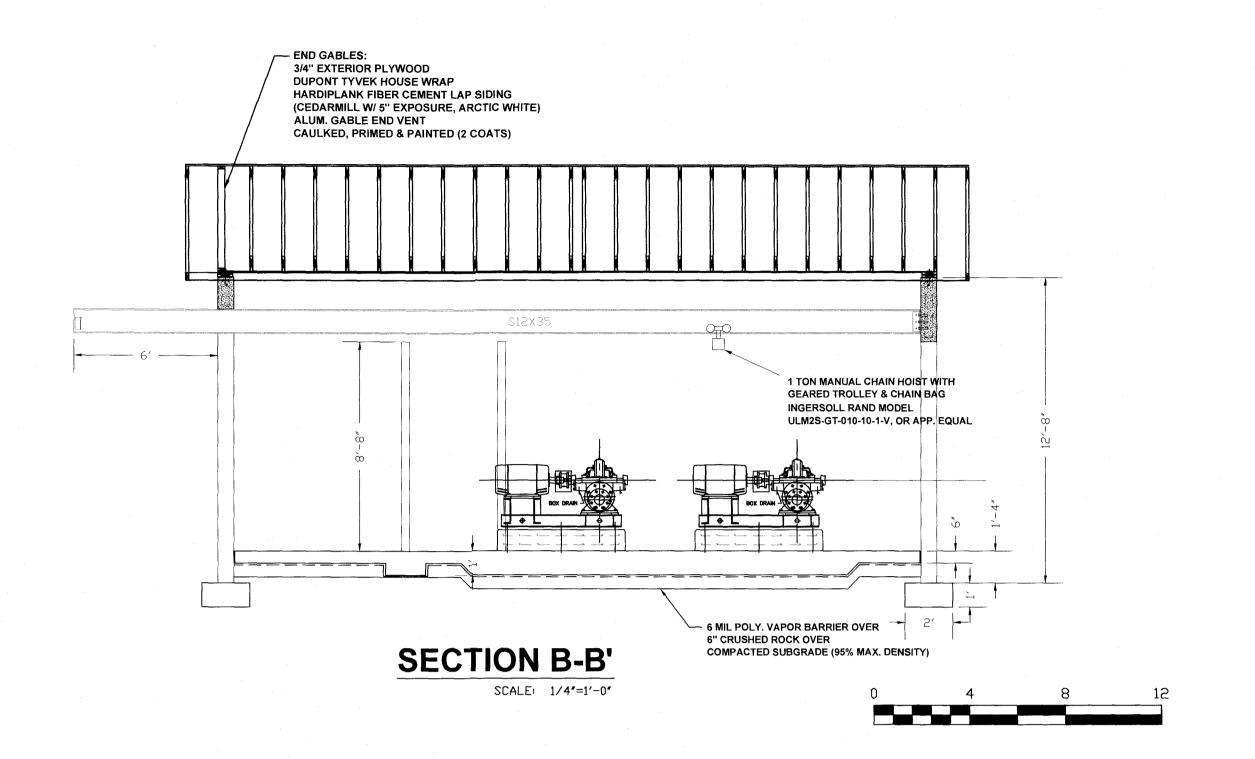


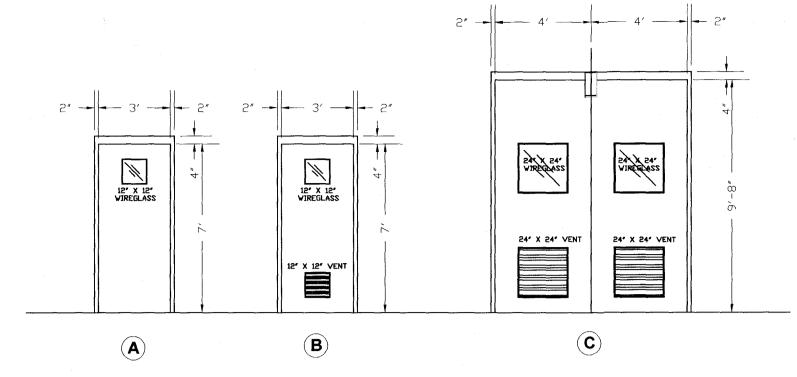
GLYNN COUNTY & SEWER COMMISSION Problem Facility

REVISIONS

SHEET NO.

G-4



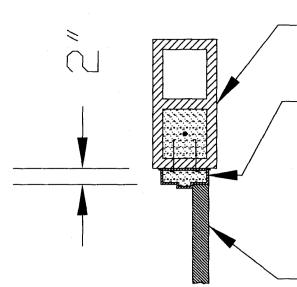


DOOR	DOOR		DIMENSION	vs	DOO	R	FRAN	AE	D	OOR DETAILS	
NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB	ACCESSORIES
101-B1	В	3'-0"	7'-0"	1 3/4*	FIBERGLASS	PAINTED	FIBERGLASS	PAINTED	H1	J1	CONT. HINGES, LOCKSET, FLOOI STOP, PANIC BAI
101-C1	С	8'-0"	9-8"	1 3/4"	FIBERGLASS	PAINTED	FIBERGLASS	PAINTED	H1	J1	CONT. HINGES, LOCKSET, FLOOR STOP, PANIC BAI
102-B1	В	3'-0"	7°-0°	1 3/4*	FIBERGLASS	PAINTED	FIBERGLASS	PAINTED	H1	J1	CONT. HINGES, LOCKSET, FLOOF STOP, PANIC BAF
103-B1	А	3'-0"	7'-0"	1 3/4"	FIBERGLASS	PAINTED	FIBERGLASS	PAINTED	H1	J1	CONT. HINGES, LOCKSET, FLOOF STOP, PANIC BAF

			R	OOM FINISH SCHEDUL	E			
ROOM NAME/NO.	FLOOR		W	WALLS		ING	CEILING HEIGHT	REMARKS
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
PUMP ROOM / 101	CONCRETE	NOTE 1	CMU	NOTE 2	PLYWOOD	NOTE 3	11'-6 1/2"	
CHLORINE / 102	CONCRETE	NOTE 1	CMU	NOTE 2	PLYWOOD	NOTE 3	8'-8"	
FLUORIDE / 103	CONCRETE	NOTE 1	CMU	NOTE 2	PLYWOOD	NOTE 3	8'-8"	
PUMP BUILDING EXTERIOR	N/A		CMU	2 COATS TNEMEC SERIES 180 TNEME-CRETE, 16.0-20.0 TOTAL DFT (SPRAYED)	N/A			

CONCRETE FLOORS SHALL BE SEALED WITH EPOXY PER JWSC.
 CMU WALLS SHALL RECEIVE FILLER AND EPOXY PAINT
 PLYWOOD CEILING SHALL RECEIVE PRIMER COAT AND 2 COATS LATEX PAINT.
 ALL COLORS TO BE SELECTED BY THE OWNER.

		Signag	e		
corner for a equal. All:	to provide and install color fast fi use in indoor and outdoor location signs shall be mounted to their a pocations with Engineer and Owne	ns. Signs sha djacent surfa	all be manufa	ctured by W.H. Brady	, or approved
No. Required	Legend	Header	Size (inches)	Color	Location
1	Chain All Cylinders Securely	Notice	10 x 14	Blue / White	Inside Rm. 102
4	No Trespassing	Notice	10 x 14	Blue / White	Perimeter Fence
2	Eye & Glove Protection Must Be Worn When Handling Chemicals	Caution	10 x 14	Yellow / Black	Inside Rooms 102 & 103.
1	High Noise Level Use Ear Protection	Caution	10 x 14	Yellow / Black	Inside Pump Room #101
1	Chlorine Gas		10 x 14	Red, Black, White	Outside Room 107
1	High Voltage		10 x 14	Red, Black, White	All MCC's & Transformers
1	Fire Extinguisher		14 x 3.5	Red, White	Above each unit.
1	Eyewash Station		7 x 10	Green, White	Near Eyewash Station
	Hazardous Materials Signs:				
1	Chlorine		7 x 10	Red, White, Black	Room 102
1	Hydrofluosilicic Acid		7 x 10	Red, White, Black	Room 103
	Full Disclosure Signs:	Polye	ethylene	TO THE SERVICE SERVICE OF THE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICES	
1	Chlorine	1	10 x 14	Red, White, Black	Room 102



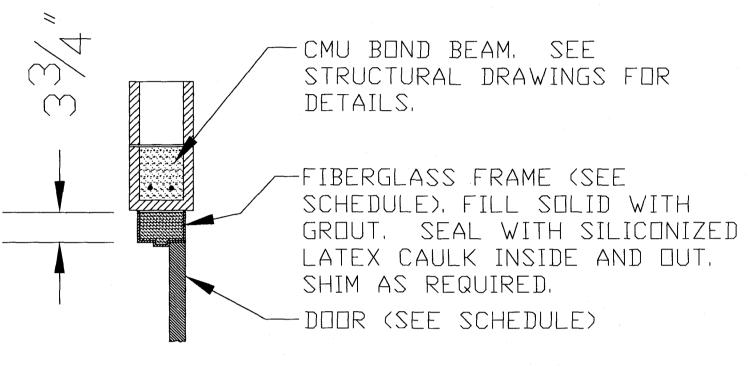
- CMU BLOCK WITH (1) #5 REBAR. FILL ONE CELL WITH GROUT.

- FIBERGLASS FRAME (SEE
SCHEDULE), FILL SOLID WITH
GROUT, SEAL WITH SILICONIZED
LATEX CAULK INSIDE AND OUT,
SHIM AS REQUIRED, PROVIDE
(3) JAMB ANCHORS PER JAMB,

DOOR (SEE SCHEDULE)

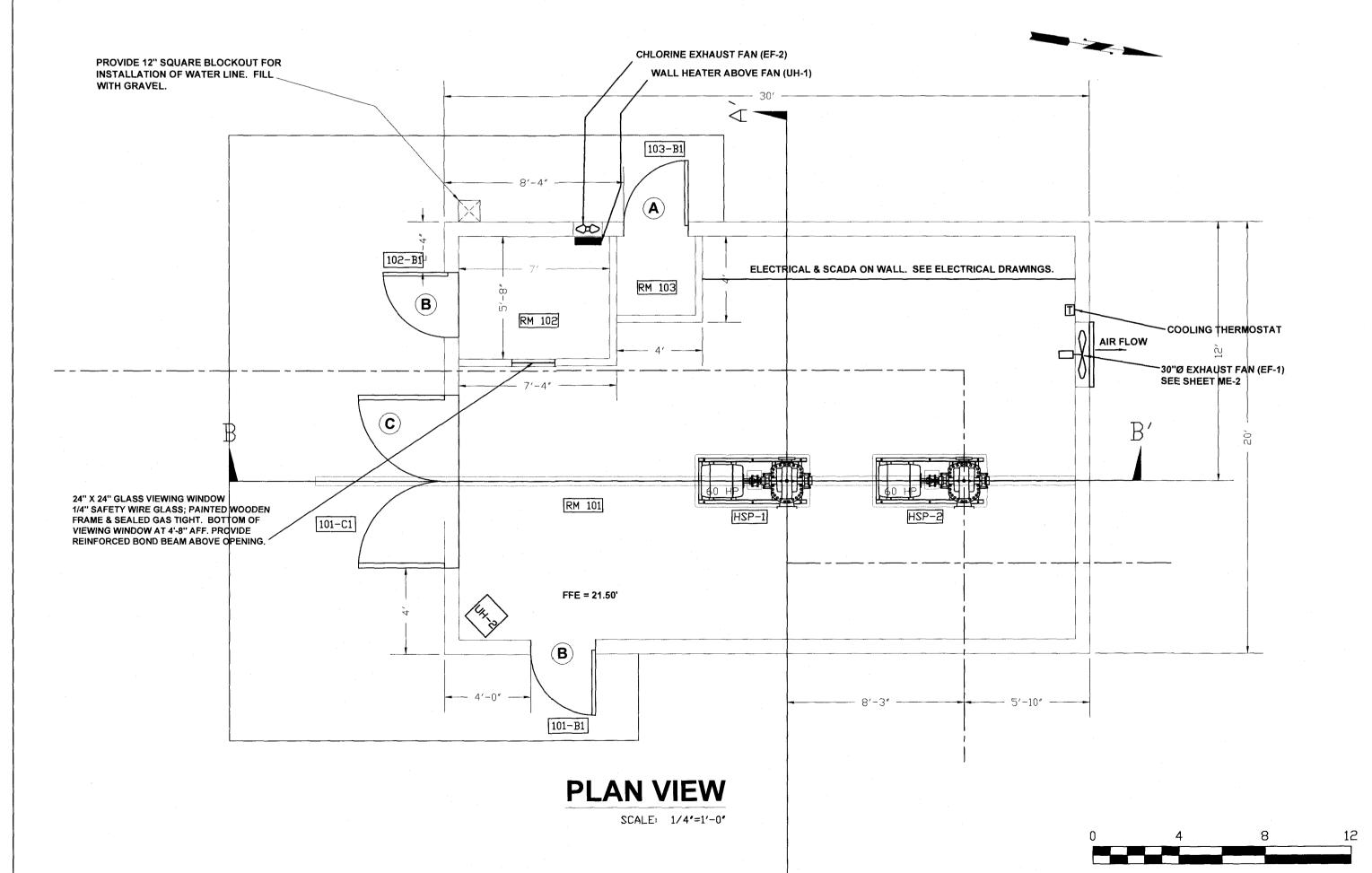
JAMB DETAIL (J1)

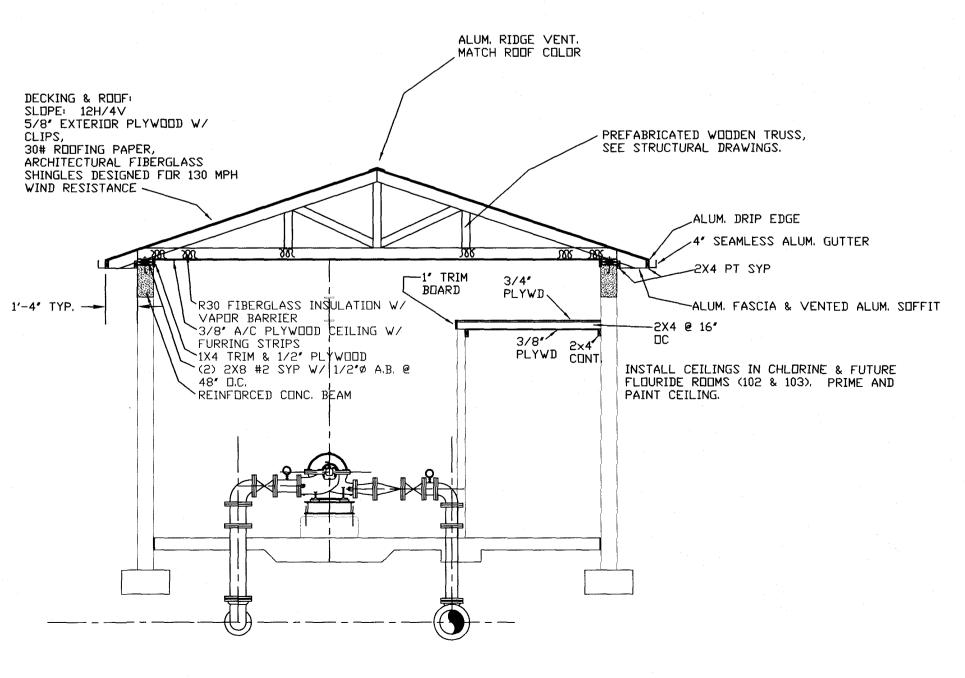
1"=1'-0"



HEAD DETAIL (H1)

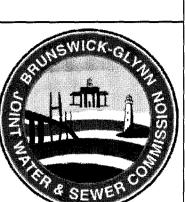
1"=1'-0"





SECTION A-A'





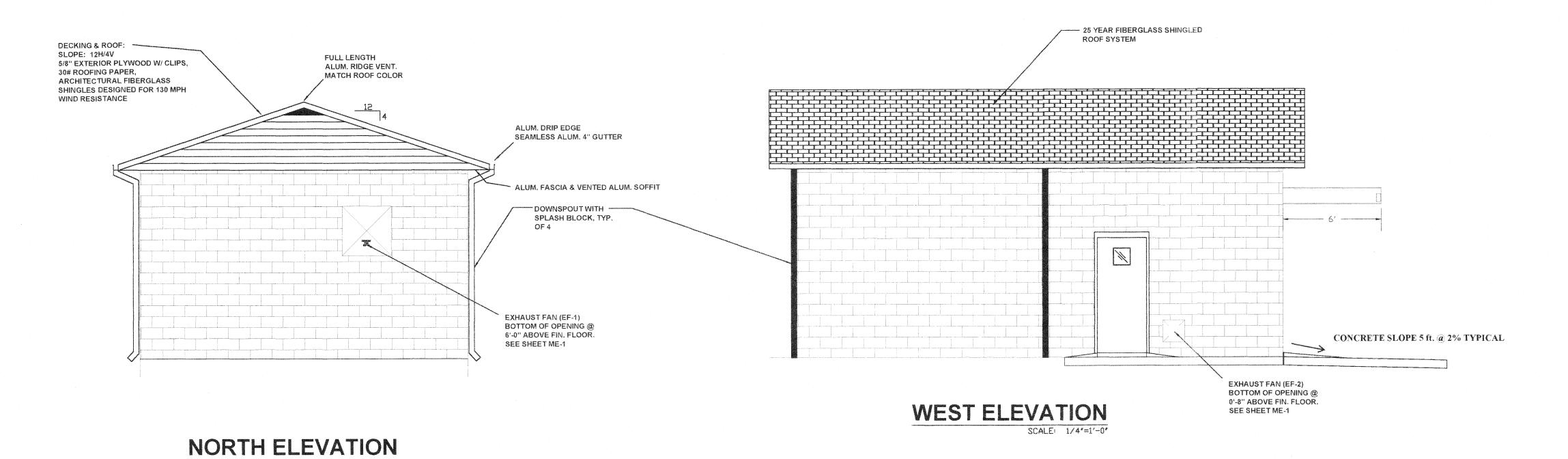
Elmo A. Richardson, Jr., P.E., LLC

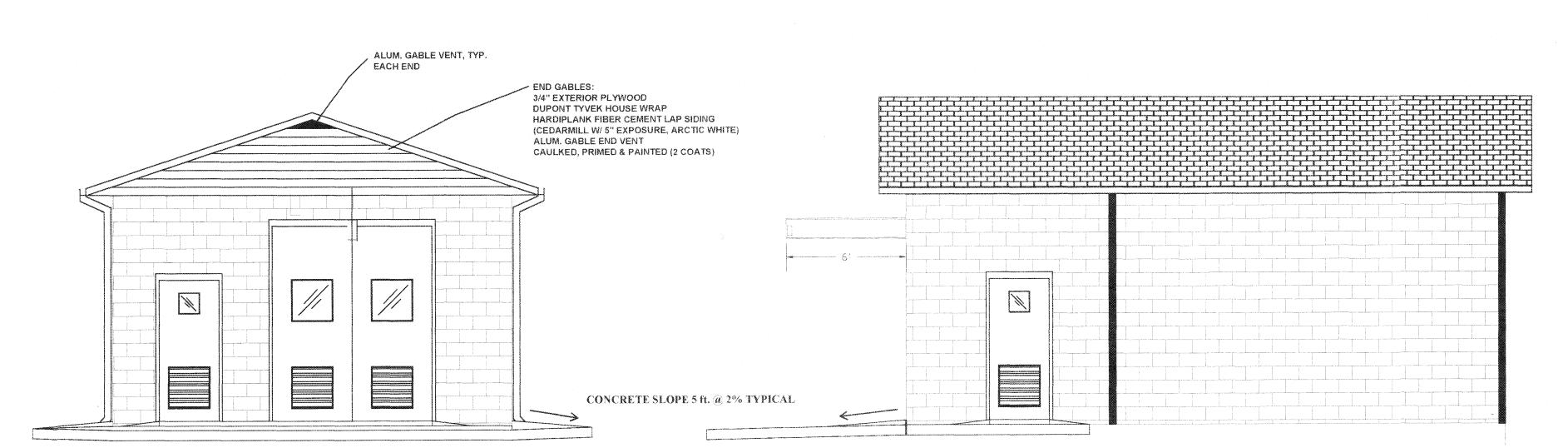
4875 RIVERSIDE DRIVE, SUITE 101 CONSULTING ENGINEERS
PHONE: 478.757.1963
FAX: 478.757.1963
The Contractor shall verify & be responsible for all dimensions. DO NOT scale the drawing. Any error or onssions shall be reported to the

ATER & SEWER COMMISSION OOD

SEPTEMBER, 2019
SCALE:
AS SHOWN
DRAWN/ CHECKED BY:

A-1





SOUTH ELEVATION

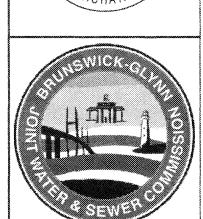
SCALE: 1/4'=1'-0"

EAST ELEVATION

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







		g gamenana
dson, Jr., P.E., LLC	CONSULTING ENGINEERS	The Contractor shall verify & be responsible for all dimensions. DO NOT scale the crawing. Any error or omissions shall be reported to the Engineer immediately. The Copyright to all designs & furtherings are the property of Erino A. Ricadoson. Jr. P. E., L.C. (the Engineer). Reproduction to use for any purpose other than that action receive the Engineers is probleted.
Elmo A. Richardson, Jr.,	4875 RIVERSIDE DRIVE, SUITE 101 MACON, GEORGIA 31210 PHONE: 478.757.1963 FAX: 478.757.1963	The Contaction shall worly & be responsible for all dimensions. DO NOT scale the crawing. A Engineer immediately. The Copyright to all designs & drawings are the property of Enro A. Ri Proposulonin or use for any purpose other than the antionized by the Enginneer is profitibled.

BRUNSWICK - GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
WATER PRODUCTION FACILITY
BUILDING ELEVATIONS

		-	
JWSC PROJECT#	DATE: SEPTEMBER, 2019	SCALE	DRAWN/ CHECKED BY:
CHEET	TNIC		

A=2

GENERAL NOTES:

CODES AND STANDARDS 2012 INTERNATIONAL BUILDING CODE, WITH GA AMENDMENTS AISC MANUAL OF STEEL CONSTRUCTION, AISC 360-10 ACI 318-11, BUILDING CODE REQUIREMENTS OF STRUCTURAL ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

REFERENCE GENERAL NOTES FOR EACH STRUCTURE FOR DESIGN LOADS AND OTHER DATA.

- CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR ALL STRUCTURES TO ENSURE STABILITY DURING ALL STAGES OF CONSTRUCTION, STRUCTURES AND FOUNDATIONS ARE DESIGNED FOR STABILITY IN THE COMPLETED CONDITION ONLY, AND REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY PRIOR TO COMPLETION. PLACE NON-SHRINK GROUT BELOW ALL COLUMN BASE PLATES PRIOR TO ADDING LOAD TO ANY STRUCTURE.
- . CONTRACTOR SHALL ADHERE TO ALL OSHA REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM ALL INSPECTIONS, TESTS, OR APPROVALS.
- VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION WHICH AFFECT NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS.
- WORK STRUCTURAL DRAWINGS WITH DRAWINGS OF OTHER DISCIPLINES AND SHOP/VENDOR DRAWINGS RELATED TO OTHER TRADES. CHECK AND COORDINATE DIMENSIONS, CLEARANCES, AND OTHER REQUIREMENTS WITH WORK OF OTHER TRADES.
- VERIFY DIMENSIONS, ANCHORAGE LAYOUT/DETAILS, AND WEIGHTS OF ALL PURCHASED OR OWNER FURNISHED EQUIPMENT WITH STRUCTURAL DETAILS SHOWN ON THE DRAWINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OR INSTALLATION.
- 8. DO NOT SCALE STRUCTURAL DRAWINGS TO DETERMINE DIMENSIONS OR MATERIAL QUANTITIES.

DESIGN DATA

	<u> </u>
. 1.	LIVE LOADS A. ROOF
2.	WIND LOADS A. BASIC WIND SPEED
3.	SNOW LOADS A. GROUND SNOW LOAD P ₆

- <u>SEISMIC DESIGN</u> A. BUILDING OCCUPANCY CAT. II B. SITE CLASS "E" C. SPECTRAL RESPONSE COEFFICIENTS...... S_{IS}= 0.404
- $S_{\mu 1} = 0.272$ $S_{06} = 0.270$ D. SEISMIC DESIGN CATEGORY "B"
- E. LATERAL FORCE RESISTING SYSTEMS: "LOAD BEARING MASONRY WALLS."
- 5. <u>SOIL PARAMETERS</u>
- A. THE FOLLOWING SOILS REPORT IS REFERENCED FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS THROUGH AN INDEPENDENT SITE INVESTIGATION PRIOR TO PLACING BID. B. SEE SOILS REPORTS DATED MAY 19, 2014:
- ELLIS & ASSOCIATES, INC. GEOTECHNICAL EXPLORATION WATER PRODUCTION FACITILIES - JWSC - RIDGEWOOD (E&A NO. 4338-0001)
- C. FOOTINGS HAVE BEEN SIZED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF AT 1'-6" BELOW EXISTING GRADE. IF SITE CONDITIONS DIFFER FROM FROM THOSE ASSUMED DURING THE DESIGN PROCESS, CONTACT ENGINEER IMMEDIATELY.
- D. NOTE THAT GEOTECHNICAL RECOMMENDATIONS INDICATE THAT UNDERCUTTING AND PLACEMENT OF STRUCTURAL FILL MAY BE REQUIRED AT THE ABOVE SITE. ALL RECOMMENDATIONS WITHIN THE ABOVE REFERENCED GEOTECHNICAL REPORTS MUST BE FOLLOWED EXACTLY TO ALLOW THE USE OF SHALLOW FOUNDATIONS AS DESIGNED & DETAILED WITHIN THE ATTACHED DOCUMENTS.

STEEL NOTES:

- STRUCTURAL STEEL
- A. STEEL SHALL CONFORM TO ASTM A36 (36 KSI YIELD STRENGTH). EXCEPTIONS NOTED.
- B. ALL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (50 KSI YIELD STRENGTH).
- C. ALL HSS SECTIONS SHALL CONFORM TO ASTM A500 (46 KSI YIELD STRENGTH)
- D. ELECTRODES SHALL CONFORM TO E70-XX. E. ALL BOLTS TO BE A325X, WITH THREADS EXCLUDED
- FROM THE SHEAR PLANE.
- F. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEX NUTS AND STANDARD WASHERS.
- HEADED ANCHORS AND SHEAR CONNECTORS (STUDS) SHALL CONFORM TO ASTM A108.

REINFORCED CONCRETE NOTES

- INFORMATION PROVIDED ON THIS SHEET IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO SUPERCEDE OR NEGATE INFORMATION CONTAINED IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF DISCREPANCIES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN UNTIL CLARIFICATION FROM THE ENGINEER OF RECORD IS OBTAINED.
- 2. ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". DESIGN IS BASED ON ACI 318-11. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- UNLESS NOTED OTHERWISE, ALL CONCRETE FOR SLABS ON GRADE, FOOTINGS, PIERS & COLUMNS SHALL BE NORMAL WEIGHT AND OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- 4. SUBMIT CONCRETE MIX DESIGNS FOR REVIEW, IN ACCORDANCE WITH ACI 318-11. TO THE ENGINEER AND TESTING AGENCY.
- 5. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.
- CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING AGENCY TO PERFORM TESTING AND SUBMIT REPORTS AS OUTLINED BELOW.
- USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
- 8. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- 9. AGGREGATES SHALL CONFORM TO ASTM C33.
- 10. CONCRETE SLUMP RANGE: 3" MIN. 5" MAX.
- 11. THE AIR CONTENT AT THE POINT OF PLACEMENT SHALL BE PER ACI 318 TABLE 4.4.1 FOR F1 MODERATE EXPOSURE.
- 12. THE TESTING AGENCY SHALL SAMPLE AND TEST EACH 100 CU. YARDS OR FRACTION THEREOF OF EACH CLASS OF CONCRETE PLACED EACH DAY. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:

SLUMP:	ASTM	C143		
AIR CONTENT:	ASTM	C231	(NORMAL	WEIGHT

COMPRESSIVE STRENGTH:

CONCRETE TEMPERATURE:

A MINIMUM OF 7 DAYS.

CLEANED, AND CAULKED.

UNLESS NOTED OTHERWISE.

SQUARES MINIMUM AT SPLICES.

COVER UNLESS NOTED OTHERWISE:

UNIT WEIGHT:

CONCRETE)

CONCRETE)

RESERVE.

ASTM C1064

ASTM C567

13. MOIST CURE CONCRETE WITH MOISTURE PROTECTIVE COVER FOR

14. HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE

INDICATED. THE LOCATION OF VERTICAL CONSTRUCTION JOINTS

SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS,

15. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60,

16. WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185

AND SHALL BE PROVIDED IN FLAT SHEETS. LAP MESH 2

17. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN

18. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE

FORMED CONCRETE EXPOSED TO EARTH OR WEATHER

#6 BARS THROUGH #12 BARS

CONCRETE NOT EXPOSED TO EARTH OR WEATHER

19. DO NOT PLACE PIPES EXCEEDING ONE-THIRD THE SLAB OR

WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS

20. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS

22. DESIGN OF ADEQUATE SHORING FOR FORMWORK IS THE

REACHED 100% OF DESIGN COMPRESSIVE STRENGTH.

24. ADHESIVE ANCHORS SHALL BE INSTALLED ACCORDING TO

RESPONSIBILITY OF THE CONTRACTOR.

MANUFACTURER SPECIFICATIONS.

APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

21. ALL EXPOSED INTERIOR SLABS SHALL RECEIVE SMOOTH TROWEL

FINISH. ALL EXPOSED EXTERIOR PAVEMENTS SHALL RECEIVE

23. LEAVE ALL FORMS & SHORING FOR ELEVATED SLABS IN PLACE A

MINIMUM OF 14 DAYS, OR UNTIL TESTING SHOWS CONCRETE HAS

SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

#5 BARS AND SMALLER

SLABS AND WALLS

BROOM FINISH.

CONCRETE CAST AGAINST EARTH (NOT FORMED):

PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT

SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN

SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

"STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

SHALL BE APPROVED BY THE ENGINEER. CONSTRUCTION JOINTS

ASTM C173 (LIGHT WEIGHT

CYLINDER AT 7 DAYS. TWO

ONE SPECIMEN HELD IN

CYLINDERS AT 28 DAYS, AND

ASTM C39, WITH ONE

- ON PLANS AND IN DETAILS.
- 2-CONTINUOUS #5'S FOR 7 5/8" C.M.U. AT 8'-0" MAXIMUM ON CENTER VERTICALLY IN ALL REINFORCED MASONRY WALLS.
- CONTINUOUS #5'S) AT THE TOPS OF ALL MASONRY WALLS.
- 13. PROVIDE KNOCK-OUT BLOCKS FOR BOND BEAMS WHERE SHOWN OR NOTED. PROVIDE U-BLOCKS FOR BOND BEAMS IN ALL OTHER WALLS.
- 14. PROVIDE A MINIMUM OF 1-#5 IN FULLY GROUTED CELLS EACH SIDE OF ALL OPENINGS IN C.M.U. WALLS. PROVIDE #5 DOWELS WITH 8" HOOKS FROM FOOTINGS, LAP SPLICES TO BE 48 BAR DIAMETERS MINIMUM, TYP. IN INTERIOR AND EXTERIOR C.M.U. WALLS, PROVIDE 1-#5 IN EACH OF 3 FULLY GROUTED CELLS
- 15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SHORING FOR WALLS DURING CONSTRUCTION.

H.R. = HANDRAIL

A.B.	-	ANCHOR BOLT	ISO.	=	ISOLATION
A.F.F.	=	ABOVE FINISHED FLOOR	JT.	=	JOINT
BLDG.	***	BUILDING	L.P.		LOW POINT
BM.	=	BEAM	LLV	***	LONG LEG VERTICAL
BOTT.	***	BOTTOM	L.W.	===	LONG WAY
BRG.	****	BEARING	MAX.	===	MAXIMUM
CHK,D	****	CHECKERED	MIN.	=	MINIMUM
Q.	****	CENTERLINE	M.O.	==	MASONRY OPENING
CL.	***		NO.		NUMBER
C.J.	=	CONSTRUCTION/CONTROL JOINT	N.T.S.	=	NOT TO SCALE
CMU	=	CONCRETE MASONRY UNIT	N.S.	****	NEAR SIDE
COL.	=	COLUMN	0.C.	=	ON CENTER
CONC.	=	CONCRETE	0.H.		m - mm 11 - mm - m-
CONN.	***	CONNECTION	OPNG.		OPENING
CONT.	***	CONTINUOUS	OPP.	===	OPPOSITE
DIA.	==	DIAMETER	P	222	PLATE
DIM.	****	DIMENSION	PROJ.		PROJECTION
0.0.	==	DOOR OPENING	REF.		REFERENCE
DN	==	DOWN	REINF.		REINFORCING
DTL.	==	DETAIL	REQ'D	=	REQUIRED
DWG.	==	DRAWING	SECT.		SECTION
DWL.	=	DOWEL	SIM.		4
EA.	=	EACH	SLV		SHORT LEG VERTICAL
EL.	=	ELEVATION	SPA.	==	SPACES
EQ.	****	EQUAL	S.S.	***	STAINLESS STEEL
EQUIP.	***	EQUIPMENT	STD.		STANDARD
EXIST.	=	EXISTING	STIFF.	ann:	STIFFENER
EXP.	=	EXPANSION	STL.	***	STEEL
FDN.	**	FOUNDATION	S.W.		SHORT WAY
FIN.	***	FINISH	SYM.	***	SYMMETRIC
FLR.	==	FLOOR	T/	=	TOP OF
F.S.	****	FAR SIDE	THK.	=	THICK
FTG.	===	FOOTING	TYP.	=	TYPICAL
GALV.	===	GALVANIZE	4111141	=	WITHHIM W. 1747 HAM. W. 1744 CT 1744 M.
G.L.	***	GIRT LINE	VERT.	===	V 1007 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
GRTG.	===	GRATING	W/	===	WITH
HORIZ.	=	HORIZONTAL	W.P.	==	WORK POINT
			*** *** ***		161PM PSP 131PM PSP 187111

REINFORCED C.M.U. NOTES

- ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASCE 6-08 ("SPECIFICATION FOR MASONRY STRUCTURES"). ALL SUPERVISORY PERSONNEL HAVING ANY CONNECTION WITH THE MASONRY WORK SHALL CERTIFY THAT THEY HAVE FAMILIARIZED THEMSELVES WITH THESE PUBLICATIONS.
- BLOCK SHALL BE LAID IN A RUNNING BOND.
- ALL FACE SHELLS OF BLOCKS SHALL BE COMPLETELY MORTARED IN BED JOINTS; HEAD JOINTS SHALL BE COMPLETELY MORTARED VERTICALLY FOR SAME WIDTH AS BED JOINTS. WHERE CELLS ARE TO BE FILLED WITH GROUT FACE AND WEB SHELLS SHALL BE COMPLETELY MORTARED EXCEPT WHERE ADJACENT CELLS ARE TO BE FILLED. WHERE ADJACENT CELLS ARE TO BE FILLED, THE WEBS COMMON TO BOTH CELLS NEED NOT BE MORTARED.
- 4. CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C 90, LIGHT WEIGHT. UNIT COMPRESSIVE STRENGTH SHALL BE 1900 PSI, MINIMUM. MANUFACTURER SHALL PROVIDE A WRITTEN CERTIFICATION OF THE UNIT COMPRESSIVE STRENGTH WHICH SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C140-03.
- ALL BLOCK WORK BELOW THE FINISHED FLOOR ELEVATION SHALL BE LAID USING TYPE M MORTAR. ALL BLOCK WORK above the finished floor elevation shall be laid using TYPE S OR TYPE M MORTAR. MORTAR SHALL COMPLY WITH
- 6. ASSUMED F' FOR EXTERIOR WALLS = 1500 PSI © 28 DAYS.
- 7. ASSUMED F_{∞} FOR INTERIOR WALLS = 1500 PSI © 28 DAYS.
- PROVIDE CONT. HORIZONTAL REINFORCING AT 16" MAX. O.C. VERTICALLY, HORIZONTAL REINFORCING SHALL BE W1.7 (9 GA. x 9 GA.) TRUSS-TYPE JOINT REINFORCING, HORIZONTAL JOINT REINFORCING SHALL COMPLY WITH ASTM A951-02 AND SHALL BE HOT DIP GALVANIZED PER ASTM A153-03. LAP SPLICE ALL JOINT REINFORCING IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, USE PREFABRICATED SECTIONS AT INTERSECTIONS AND CORNERS. DO NOT CUT OR BEND
- 9. ALL CELLS AND VOIDS NOTED AS FILLED SHALL BE FILLED SOLID WITH GROUT CONFORMING TO ASTM C476-02 (MINIMUM COMPRESSIVE STRENGTH = 2000 PSI). COARSE AGGREGATE SHALL NOT EXCEED 3/8" IN DIMENSION.
- 10. VERTICAL WALL REINFORCING WILL BE REQUIRED AS SHOWN
- 11. PROVIDE A CONTINUOUS GROUT FILLED BOND BEAM WITH
- 12. PROVIDE A CONTINUOUS CONCRETE BOND BEAM (WITH 4-
- AT ALL CORNERS AND INTERSECTIONS OF MASONRY UNITS.

ABBREVIATIONS:

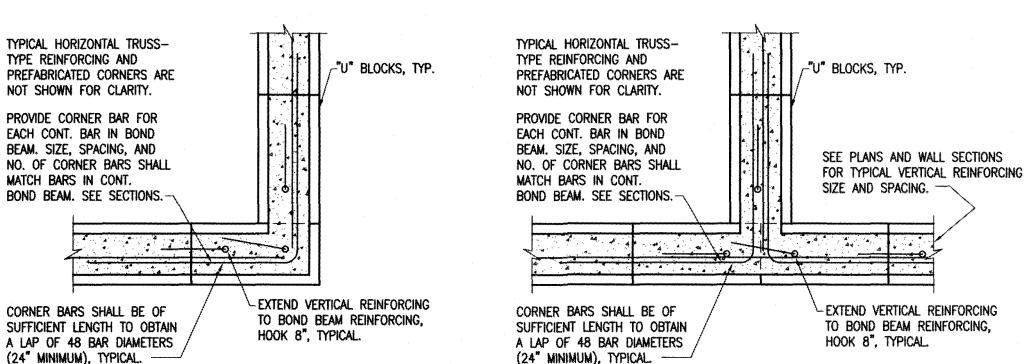
A.B.	=	ANCHOR BOLT	ISO.	=	ISOLATION
A.F.F.	=	ABOVE FINISHED FLOOR	JT.	=	JOINT
BLDG.	700	BUILDING	L.P.	****	LOW POINT
BM.	***	BEAM	LLV	****	LONG LEG VERTICAL
BOTT.	****	BOTTOM	L.W.	===	LONG WAY
BRG.	****	BEARING	MAX.	===	MAXIMUM
CHK,D	****	CHECKERED	MIN.	=	MINIMUM
Ģ.	****	CENTERLINE	M.O.		MASONRY OPENING
CL.	****	CLEAR	NO.	-	NUMBER
C.J.	=	CONSTRUCTION/CONTROL JOINT	N.T.S.	-	NOT TO SCALE
CMU	=	CONCRETE MASONRY UNIT	N.S.	7982 7000	NEAR SIDE
COL.	=	COLUMN	0.C.	===	ON CENTER
CONC.	=	CONCRETE	0.H.	***	OVERHEAD
CONN.	***	CONNECTION	OPNG.	***	OPENING
CONT.		CONTINUOUS	OPP.	=	OPPOSITE
DIA.	===	DIAMETER	PL		PLATE
DIM.	****	DIMENSION	PROJ.	4000 4000	PROJECTION
D.O.	===	DOOR OPENING	REF.		REFERENCE
DN	==	DOWN	REINF.	===	REINFORCING
DTL.	==	DETAIL	REQ'D	=	REQUIRED
DWG.	=	DRAWING	SECT.	=	SECTION
DWL.	=	DOWEL	SIM.	=	SIMILAR
EA.	=	EACH	SLV	=	SHORT LEG VERTICAL
EL.	=	ELEVATION	SPA.	=	SPACES
EQ.	****	EQUAL	S.S.	***	STAINLESS STEEL
EQUIP.	200	EQUIPMENT	STD.	ene:	STANDARD
EXIST.	=	EXISTING	STIFF.	***	STIFFENER
EXP.	=	EXPANSION	STL.	***	STEEL
FDN.	==	FOUNDATION	S.W.	***	SHORT WAY
FIN.	****	FINISH	SYM.	***	SYMMETRIC
FLR.	==	FLOOR	T/	=	TOP OF
F.S.	****	FAR SIDE	THK.	=	THICK
FTG.	===	FOOTING	TYP.	=	TYPICAL
GALV.	===	GALVANIZE	U.N.O.	=	UNLESS NOTED OTHERWISE
G.L.	===	GIRT LINE	VERT.	***	VERTICAL
GRTG.	===	GRATING	W/	222	WITH
HORIZ.	=	HORIZONTAL	W.P.	***	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
H.P.	****	HIGH POINT	W.W.R.	==	WELDED WIRE REINFORCING

PROVIDE 1-#5 VERTICAL TYPICAL HORIZONTAL TRUSS-IN A FILLED CELL AT EACH TYPE REINFORCING @ 16" O.C. END OF ALL FULL-HEIGHT WALLS, TYP. UNLESS NOTED OTHERWISE. EXTEND ALL VERT. REINF. FROM SEE PLANS AND WALL SECTIONS FOOTING REINF. MAT TO BOND FOR TYPICAL VERTICAL REINFORCING TYPICAL HORIZONTAL TRUSS-BEAM @ TOP OF WALL, HOOK SIZE AND SPACING. TYPE REINFORCING @ 16" O.C.-VERT. 8". TYP. TOP & BOTT. PROVIDE 1-#5 VERT. CONT. IN PROVIDE PREFABRICATED HORIZONTAL "L" PROVIDE PREFABRICATED HORIZONTAL "T" EA. OF THREE FILLED CELLS, TYPICAL REINFORCING (32"x32") • CORNERS. REINFORCING (32"x32") O INTERSECTIONS. AT ALL CORNERS & INTERSECTIONS.

TYPICAL CORNER

TYPICAL INTERSECTION

PLAN DETAILS @ WALL INTERSECTIONS



TYPICAL CORNER

TYPICAL INTERSECTION

PLAN DETAILS @ BOND BEAM INTERSECTIONS NO SCALE

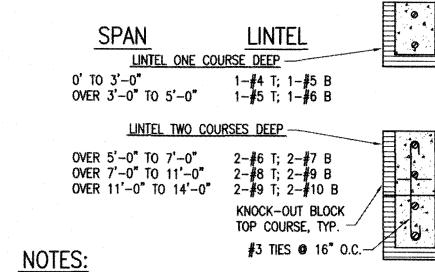
PREFABRICATED WOOD TRUSS

GENERAL NOTES

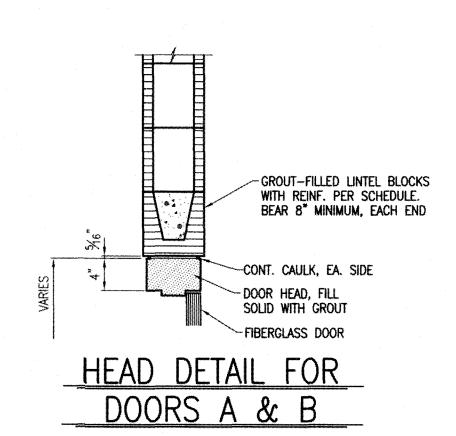
- 1. TRUSS DIAGRAMS AND ROOF FRAMING PLAN ARE TO BE FOLLOWED FOR OVERALL DIMENSIONS AND GENERAL CONFIGURATION. SPECIFICS OF CONFIGURATION AND MEMBER SIZES ARE TO BE DETERMINED BY TRUSS MANUFACTURER'S ENGINEER, WITH MINIMUM SIZES AS SPECIFIED BELOW.
- 2. TRUSS DESIGN SHALL BE PERFORMED BY AN ENGINEER, EMPLOYED BY THE TRUSS MANUFACTURER, LICENSED TO PRACTICE IN THE STATE OF GEORGIA. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BEAR SAID ENGINEER'S SEAL, AND SHALL BE SUBMITTED FOR REVIEW.
- 3. CONFORM TO APPLICABLE STANDARDS OF THE INTERNATIONAL BUILDING CODE AND THE TRUSS PLATE INSTITUTE, INCLUDING THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
- 4. DEAD LOADS, SNOW LOADS, LIVE LOADS, ROOF LIVE LOADS, SEISMIC LOADS AND WIND LOADS (AND THEIR COMBINATIONS) TO BE IN ACCORDANCE WITH THE ABOVE REFERENCED CODE.
- 5. MEMBER SIZES ARE TO BE DETERMINED BY TRUSS ENGINEER'S CALCULATIONS. BUT MINIMUM SIZES FOR TOP AND BOTTOM CHORDS AND SOME OTHER NOTED MEMBERS TO BE 2"x4". ALL MEMBERS FOR ALL TRUSSES TO BE #2 OR BETTER, SOUTHERN YELLOW PINE.
- 6. MINIMUM SIZES SHOWN ABOVE SHALL NOT PRECLUDE A COMPLETE DESIGN AND ANALYSIS OF THE ROOF SYSTEM AND INDIVIDUAL TRUSSES. MEMBER SIZES LARGER THAN THOSE SHOWN ABOVE SHALL BE USED IF INDICATED BY TRUSS ENGINEER'S CALCULATIONS.
- 7. ALL TRUSSES SHALL BE FABRICATED IN THE MANUFACTURER'S SHOP AND DELIVERED ASSEMBLED TO THE JOB SITE. TRUSSES SHALL BE LOADED AND UNLOADED ACCORDING TO LIFTING DIRECTIONS GIVEN BY THE TRUSS ENGINEER. "DUMPING" OF TRUSSES SHALL BE GROUNDS FOR REJECTION. AS WILL ANY OTHER DAMAGE CAUSED BY FABRICATION, TRANSPORTING OR HANDLING OF TRUSSES.
- 8. Trusses shall be erected by the Manufacturer's representative at the direction of the TRUSS ENGINEER, EITHER IN PERSON OR BY SPECIFIC DIRECTIONS SHOWN ON SHOP DRAWINGS.
- 9. SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF ANY FABRICATION. SHOP DRAWINGS SHALL SHOW ALL DETAILS, DIMENSIONS, SIZES AND DESIGN CALCULATIONS NECESSARY TO FABRICATE AND ERECT TRUSSES AND ALL ASSOCIATED ACCESSORIES.
- 10. ALL TRUSSES SHALL BE ANCHORED TO RESIST UPLIFT AND HORIZONTAL FORCES COMPUTED BY TRUSS ENGINEER AS SHOWN ON SHOP DRAWINGS. ANCHORAGE TO BE FURNISHED & INSTALLED BY TRUSS MANUF.
- 11. TRUSS ENGINEER SHALL SPECIFY, AND TRUSS MANUFACTURER SHALL SUPPLY, ALL NECESSARY ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS INCIDENTAL FRAMING, AND BRACING.
- 12. BRACING OF TRUSSES DURING INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. INSTALLATION & BRACING SHALL BE IN ACCORDANCE WITH "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY SBCA & TRUSS PLATE INSTITUTE, 2013 ED.

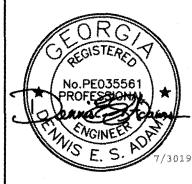
LINTEL SCHEDULE

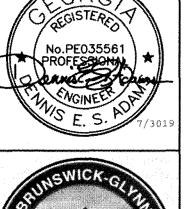
FOR CONCRETE BLOCK (11 5/8" C.M.U.)



- 1- LINTELS SCHEDULED ABOVE SHALL BE USED UNLESS SHOWN OR NOTED OTHERWISE.
- 2- STEEL LINTELS SUPPORTING BRICK SHALL HAVE 1" BEARING, EACH END, FOR EACH 1'-0" OF SPAN, BUT NOT LESS THAN 6" BEARING, EACH END.
- 3- C.M.U. LINTELS AND REINFORCING SHALL EXTEND PAST EACH SIDE OF OPENING 48 BAR DIAMETERS (BASED ON LARGEST BAR) WHERE SPACE PERMITS. WHERE SPACE DOES NOT PERMIT EXTENSION, BEND BARS 90° INTO FULLY GROUTED CELL EACH SIDE OF OPENING
- 4- CONCRETE BLOCK (C.M.U.) LINTELS SHALL BE MADE WITH FILLED "U" BLOCKS, EXCEPT AS NOTED. FILL SHALL BE COARSE GROUT CONFORMING TO ASTM C476. 3/8" MAXIMUM STONE SIZE. SHORE POURED LINTELS 7 DAYS, MINIMUM.
- 5- WHERE C.M.U. LINTEL SPAN EXCEEDS 6'-0", FILL CELLS OF CONCRETE BLOCK UNDER BEARING FOR 16" LENGTH FROM FOOTING TO TOP OF WALL & PROVIDE 1-#5 VERTICAL BAR IN EACH OF 2 FILLED CELLS, EACH SIDE OF OPENING. AT OTHER LINTELS, PROVIDE 1-#5 VERTICAL BAR, EACH SIDE OF OPENING, IN FILLED CELL. EXTEND ALL VERTICALS FROM FOOTING MAT TO BOND BEAM AT TOP OF WALL.









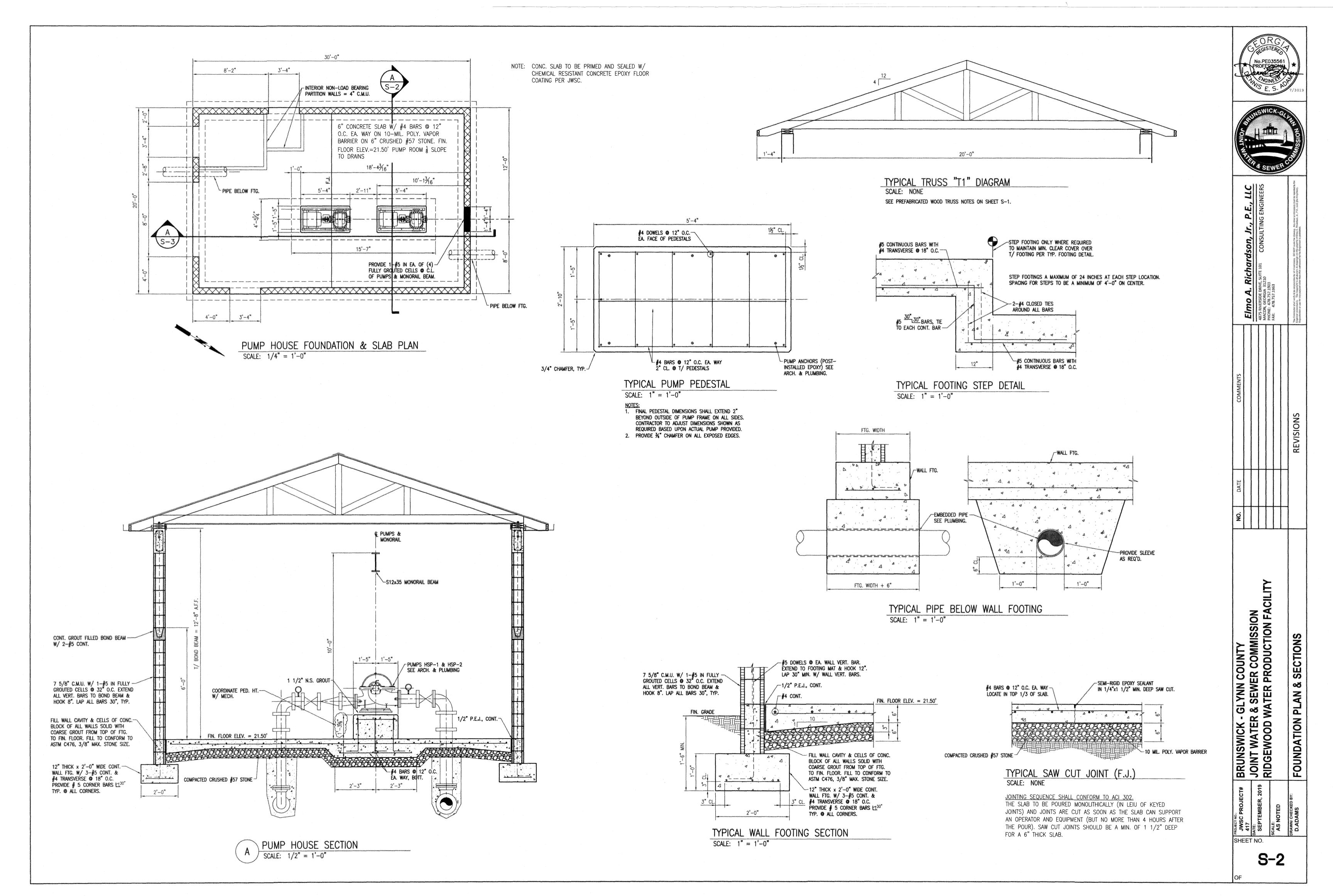
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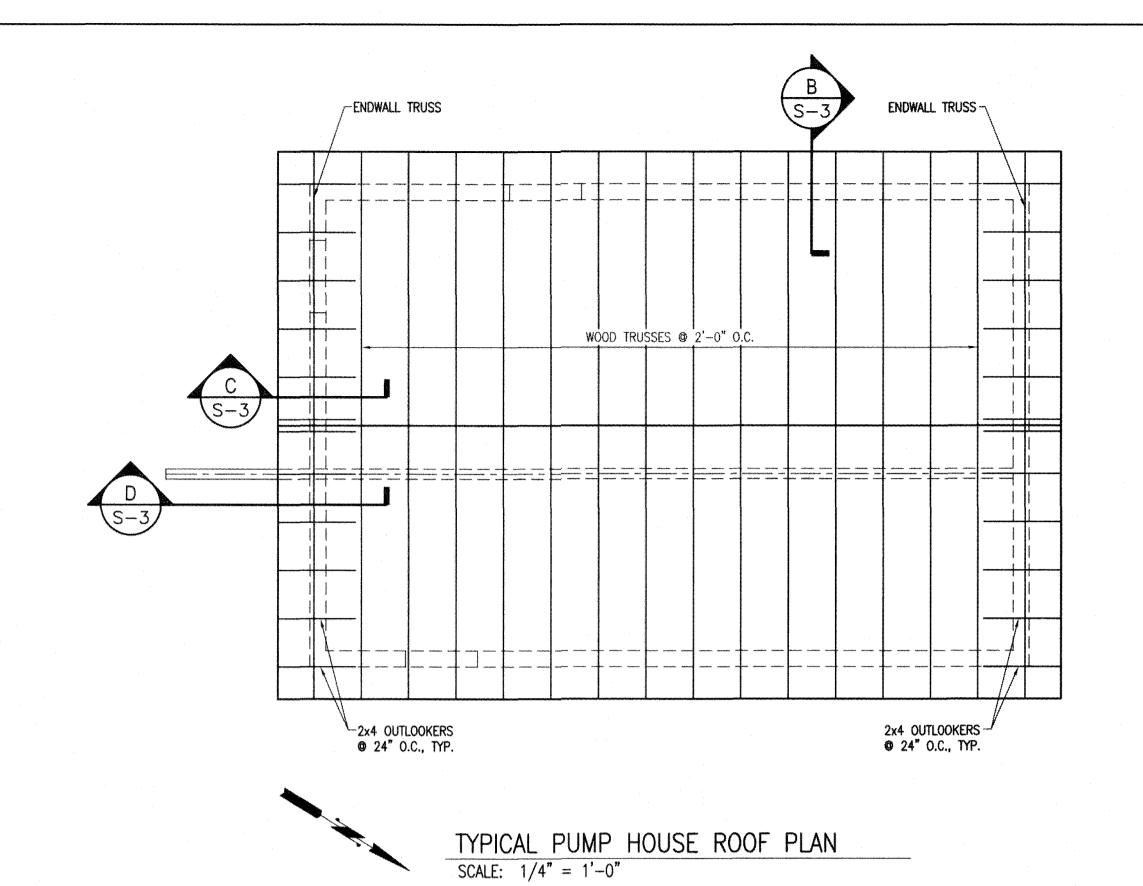
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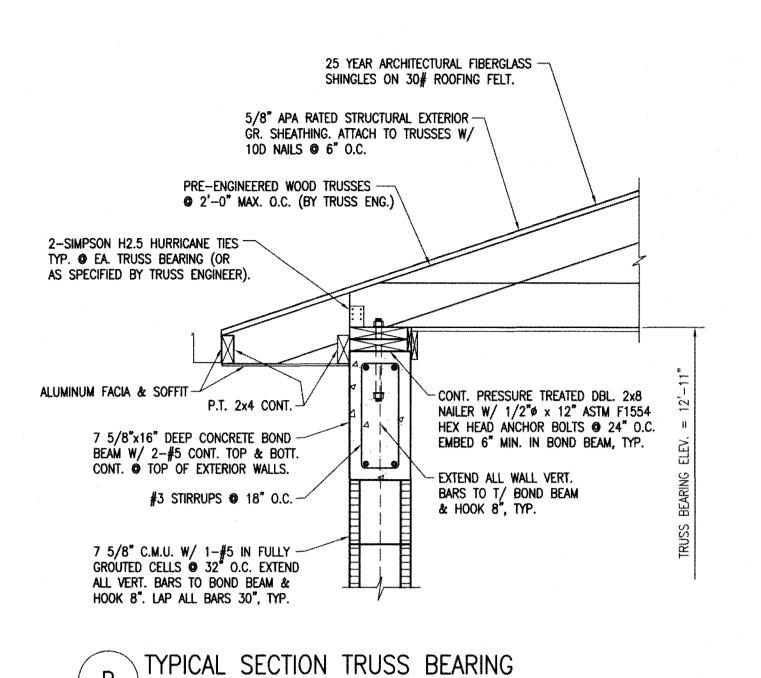
STRU(

SHEET NO.

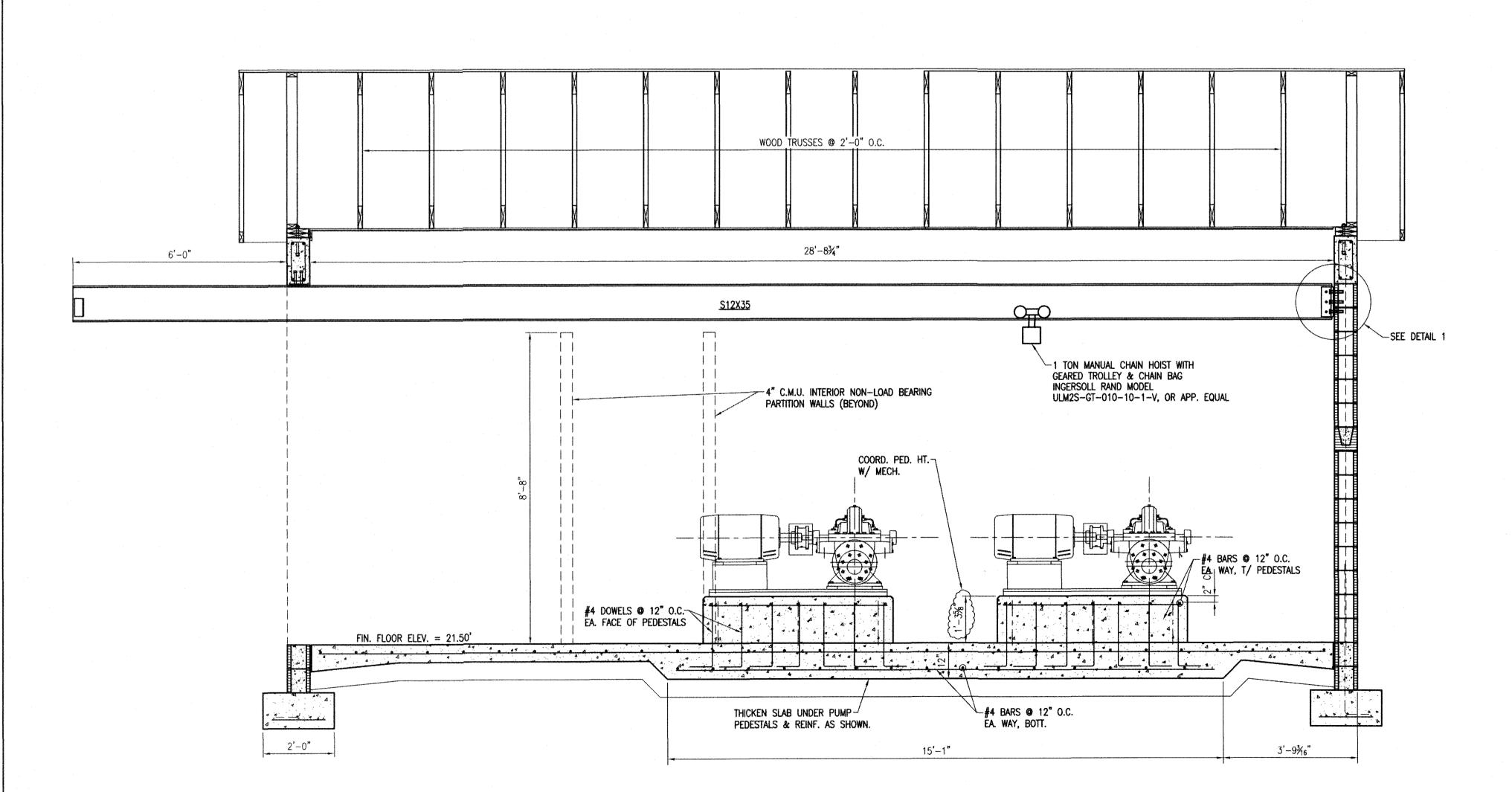
S-1





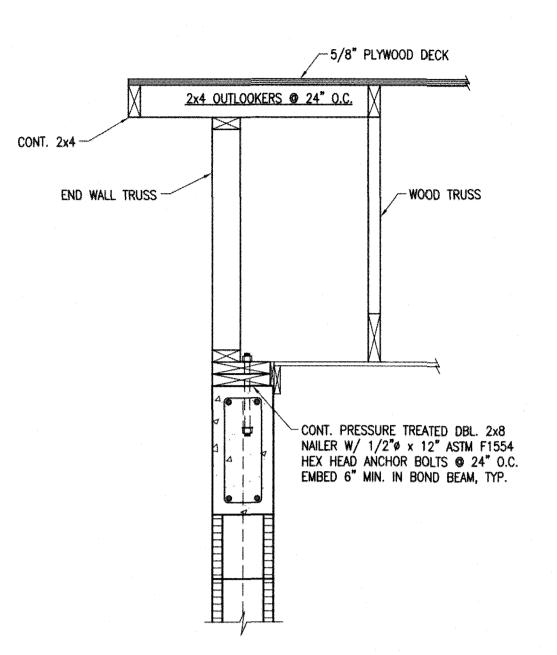


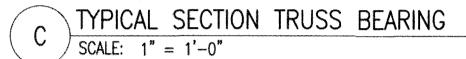
SCALE: 1'' = 1'-0''

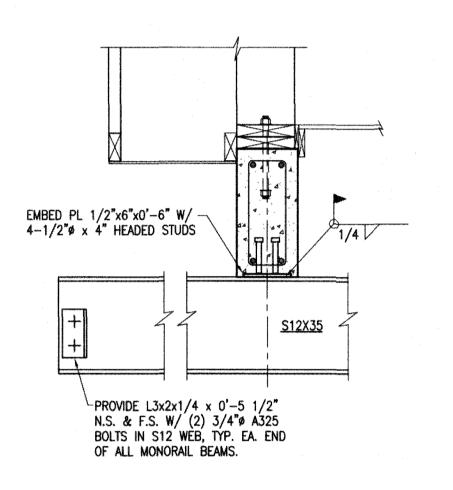


PUMP HOUSE SECTION

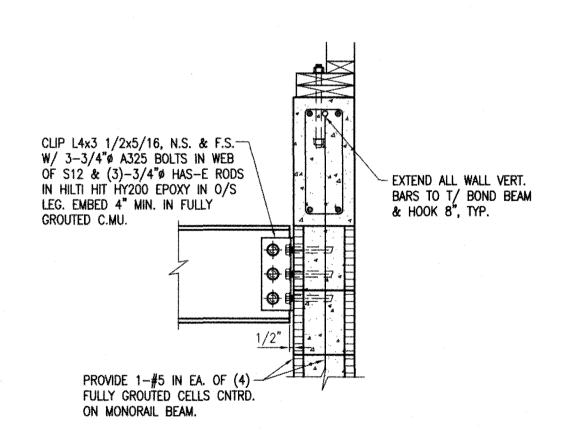
SCALE: 1/2" = 1'-0"



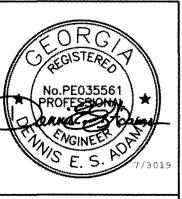


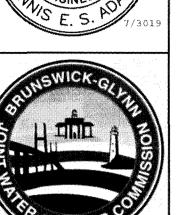


SECTION AT MONORAIL SUPPORT SCALE: 1" = 1'-0"



MONORAIL BEAM SUPPORT





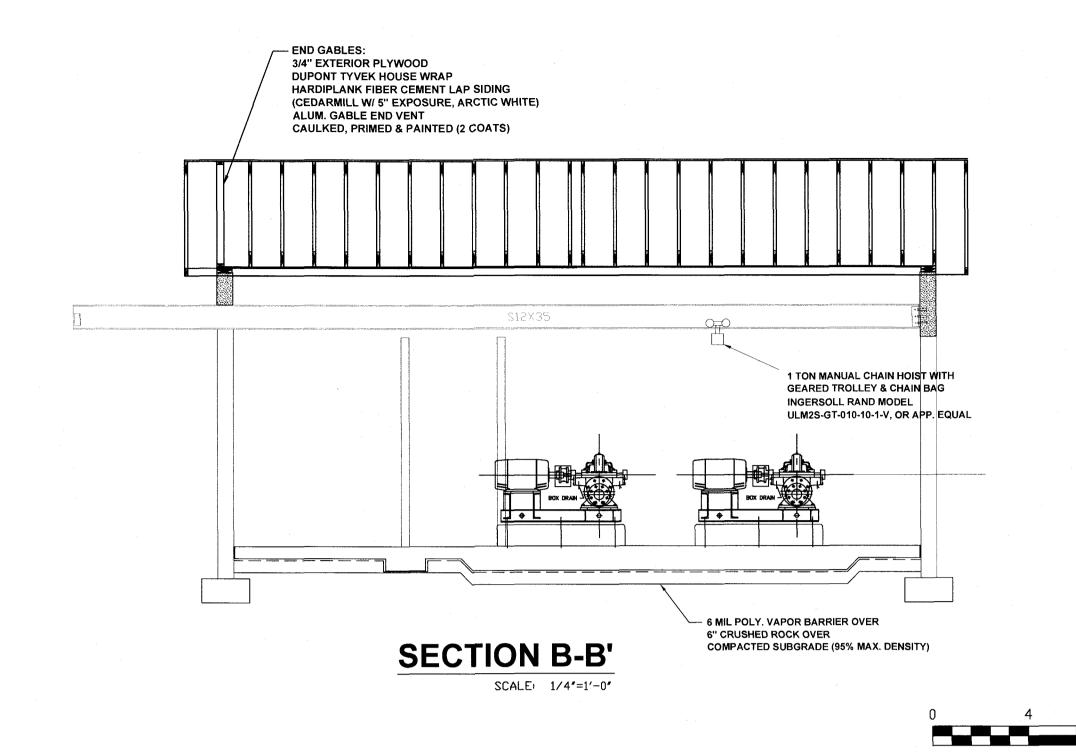
COUNTY	Š.	DATE	COMMENTS	
				Elmo A. Richardson. Jr., P.E., LLC
LER COMMISSION				
				4875 RIVERSIDE DRIVE, SUITE 101 CONSULTING ENGINEERS
PRODUCIION PACILITY				PHONE: 478.757.1903
				FAX: 4/8./57.1305
SNO			REVISIONS	The Contractor shall welly 8 be responsible for all demonsters. DO NOT scale be drawing. Any error or missions shall be exported to the Engineers immediately. The Cooperation at all describes 6 demonstrated to the Engineers. Respectively or Error A. Relatives, I., P.E., L.C. (the Engineers). Respectively or uses for any postoce other than that authorized by the Engineers is prohibited.

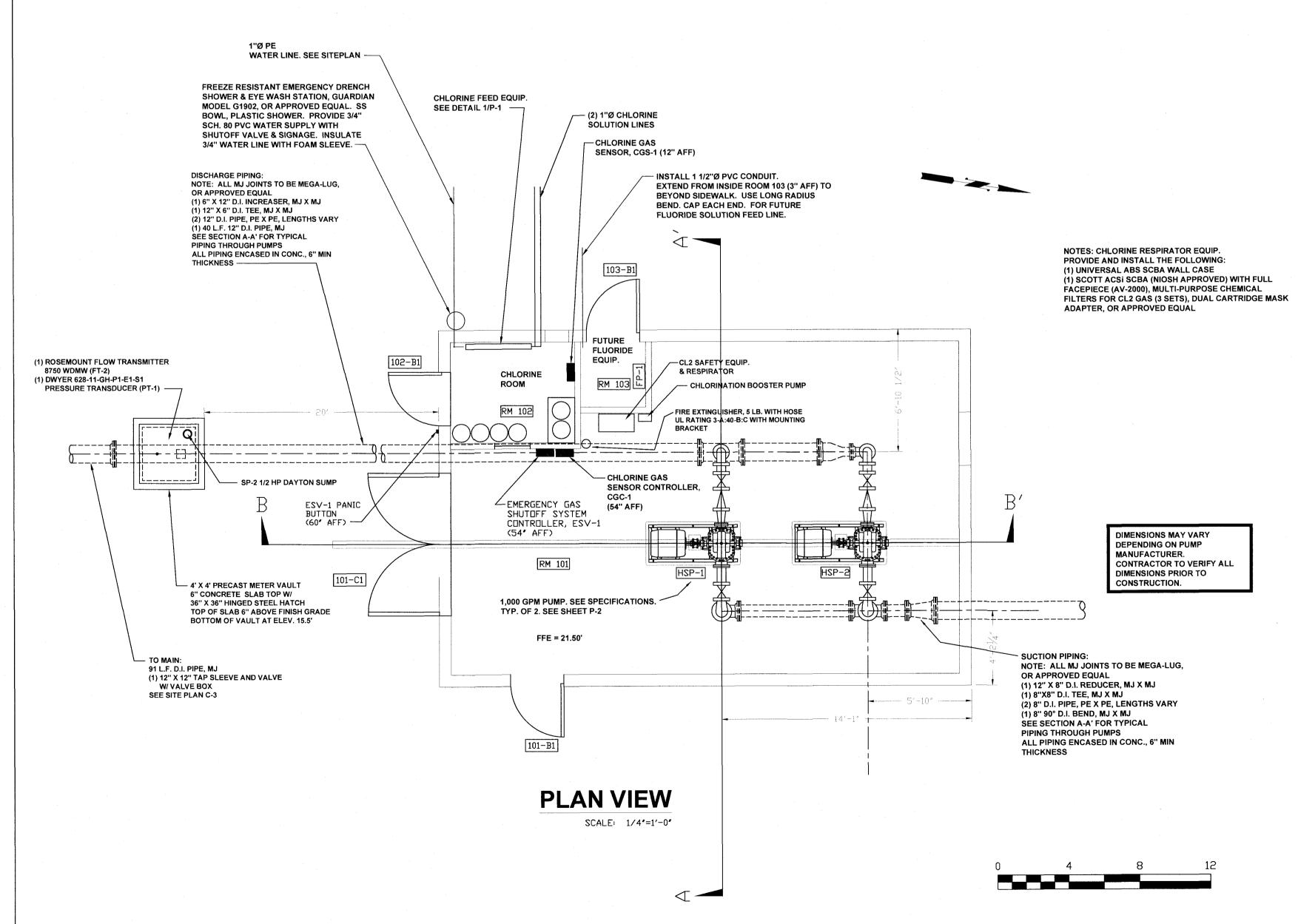
BRUNSWICK - GLYNN (
JOINT WATER & SEWE
RIDGEWOOD WATER P SECTIO ංඊ PLAN

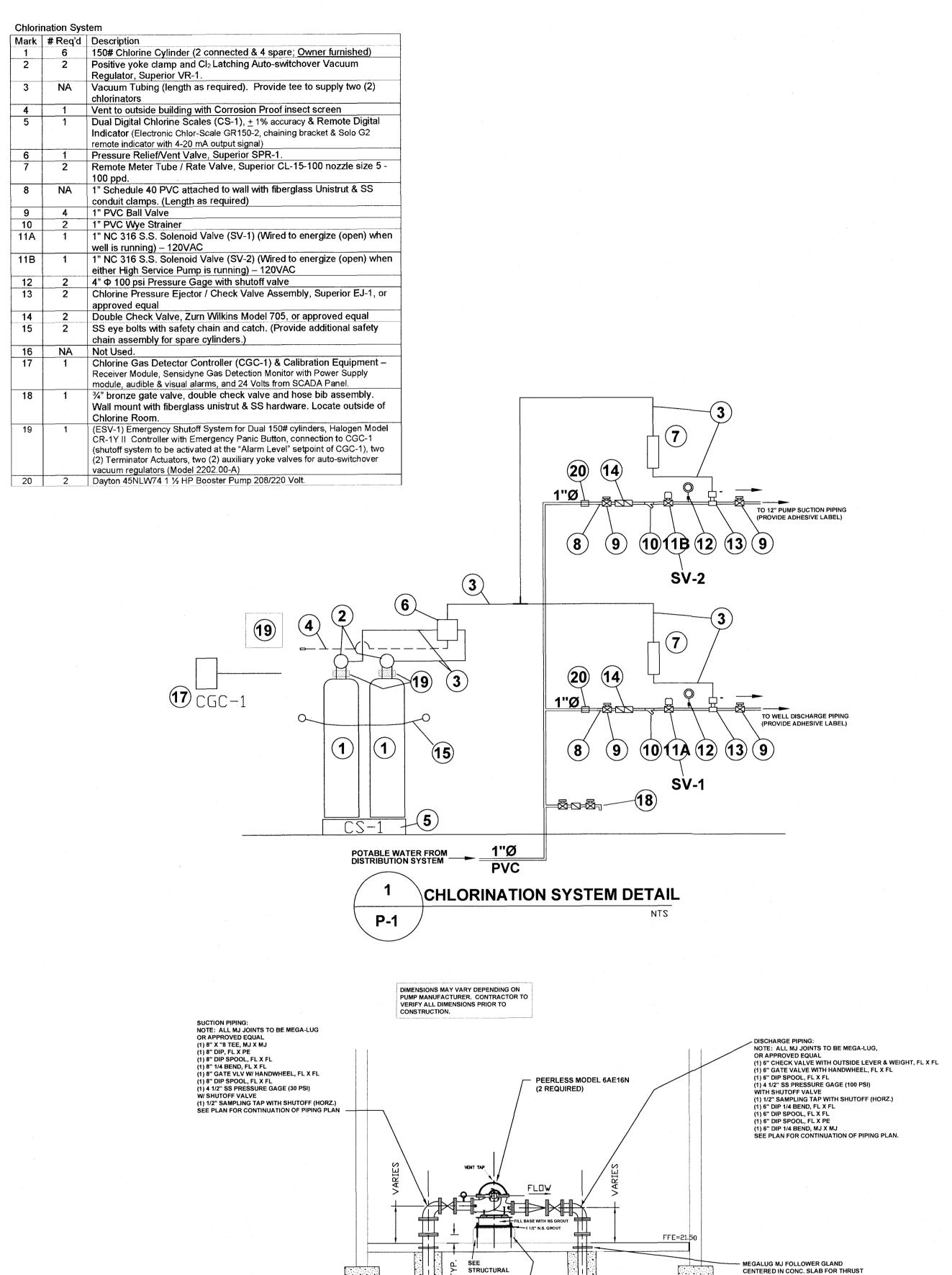
ROOF

SHEET NO.

S-3







PLANS FOR

6" CONCRETE ENCASEMENT (MIN.) UNDER

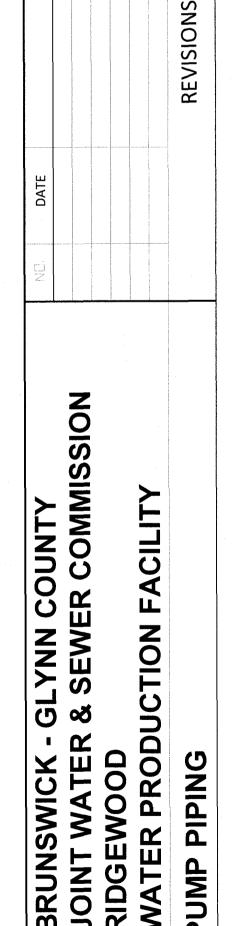
BUILDING SLAB., TYP.

FOUNDATION

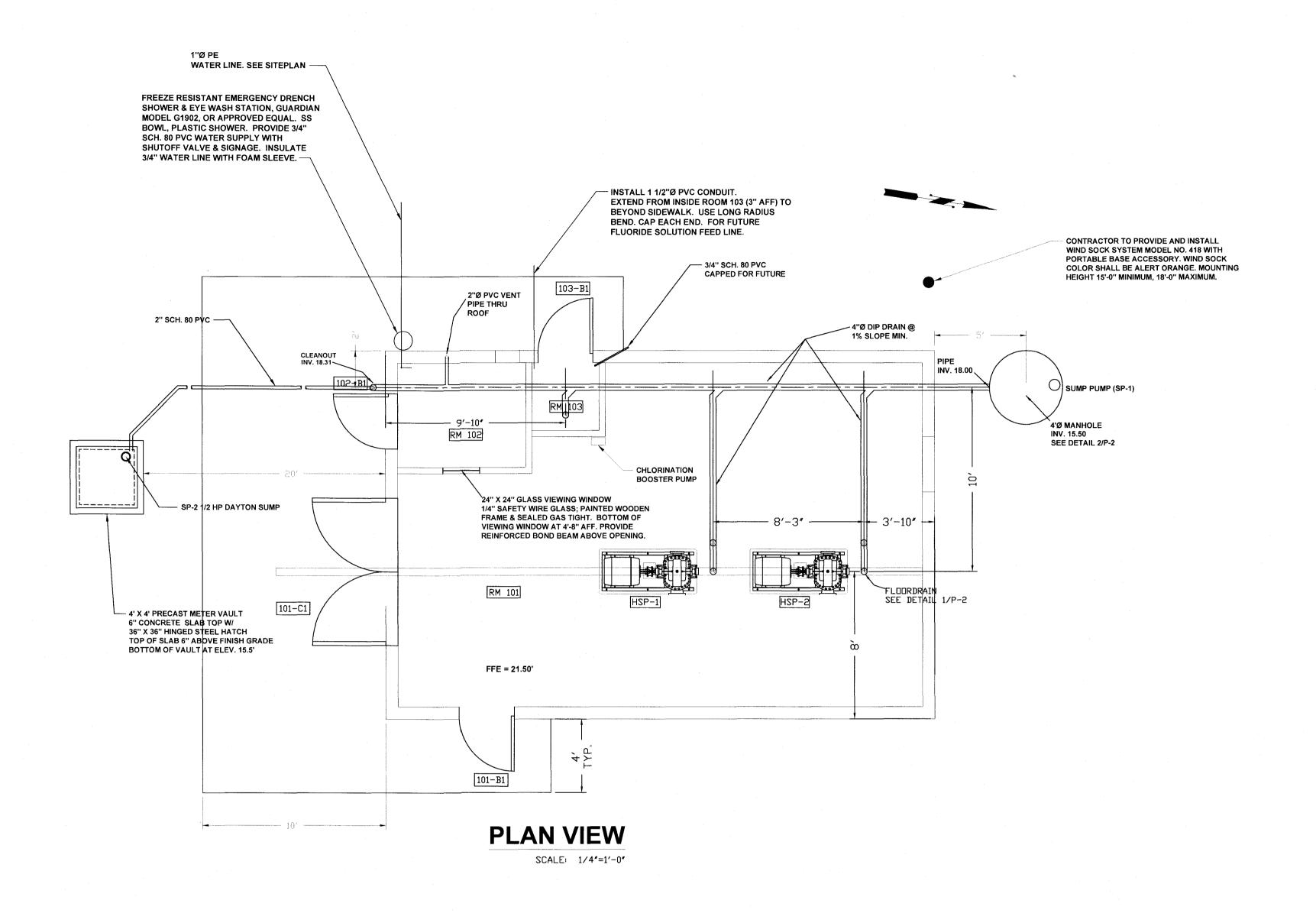
SECTION A-A'

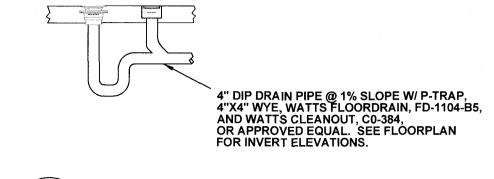
C/L ELEV. = 17.00

DRILL & SET EPOXY ANCHOR BOLTS
PER MANF'S DRAWINGS WITH LEVELING
NUT, TYP. OF 6 PER PUMP

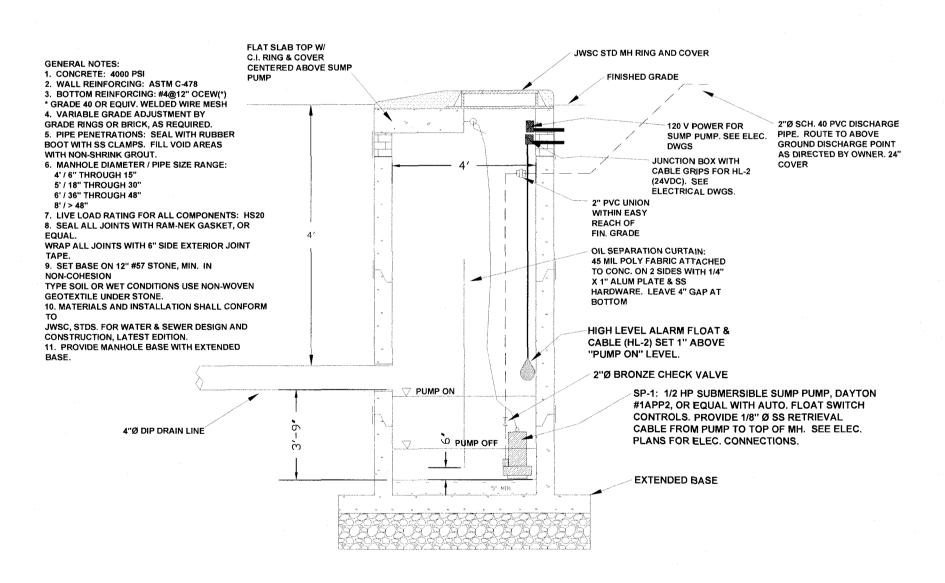


P-



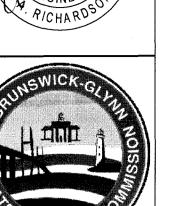


FLOORDRAIN & CLEANOUT DETAIL









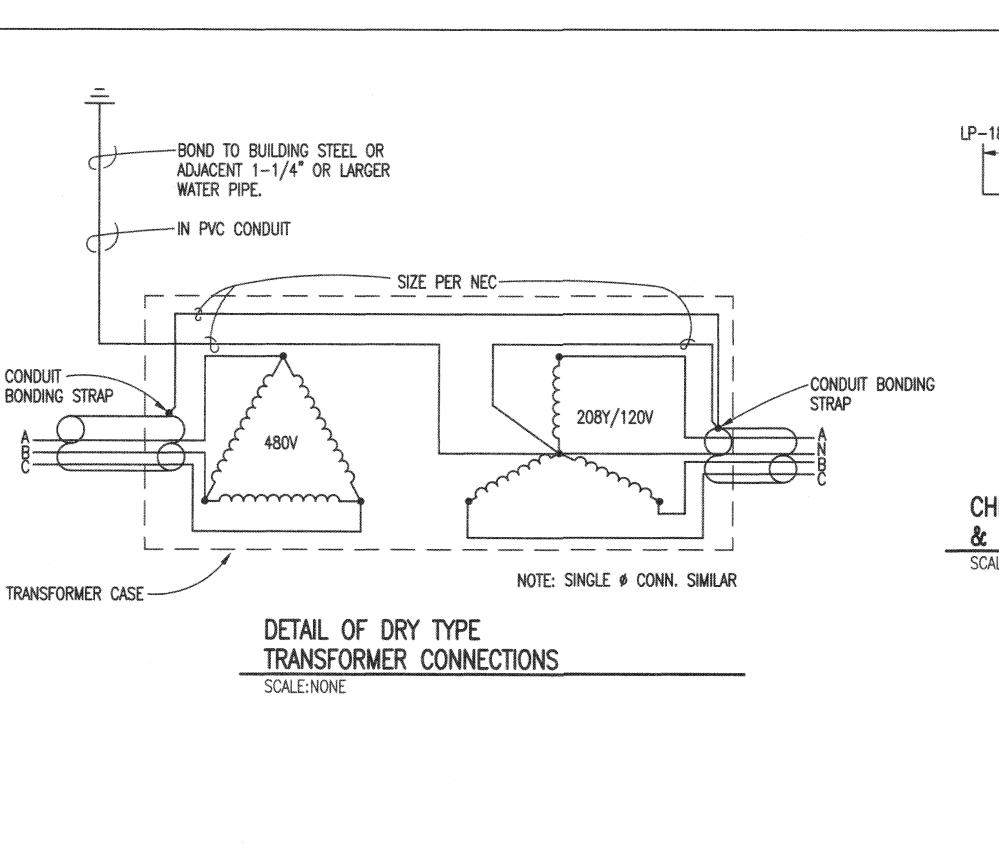
N.T.S.

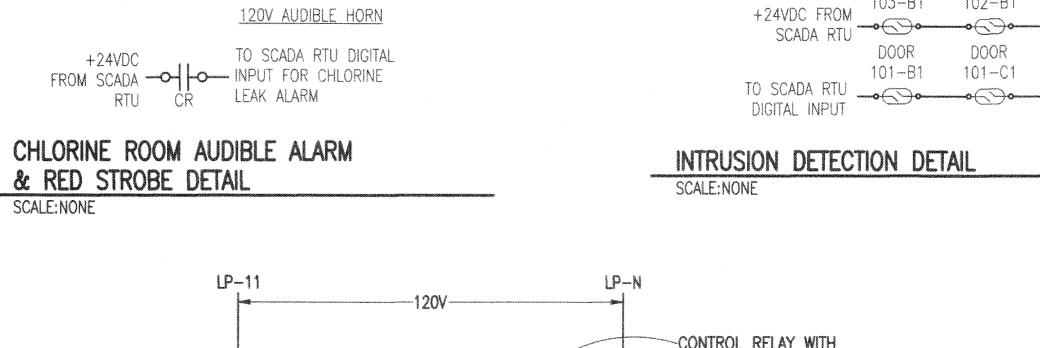
REVISIONS

BRUNSWICK - GLYNN COUNTY JOINT WATER & SEWER COMMISSION RIDGEWOOD WATER PRODUCTION FACILITY

SHEET NO.

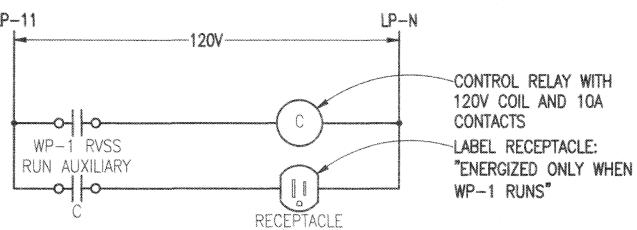
P-2





CGC-1

ALARM



DOOR MAGNETIC SWITCHES SHALL BE

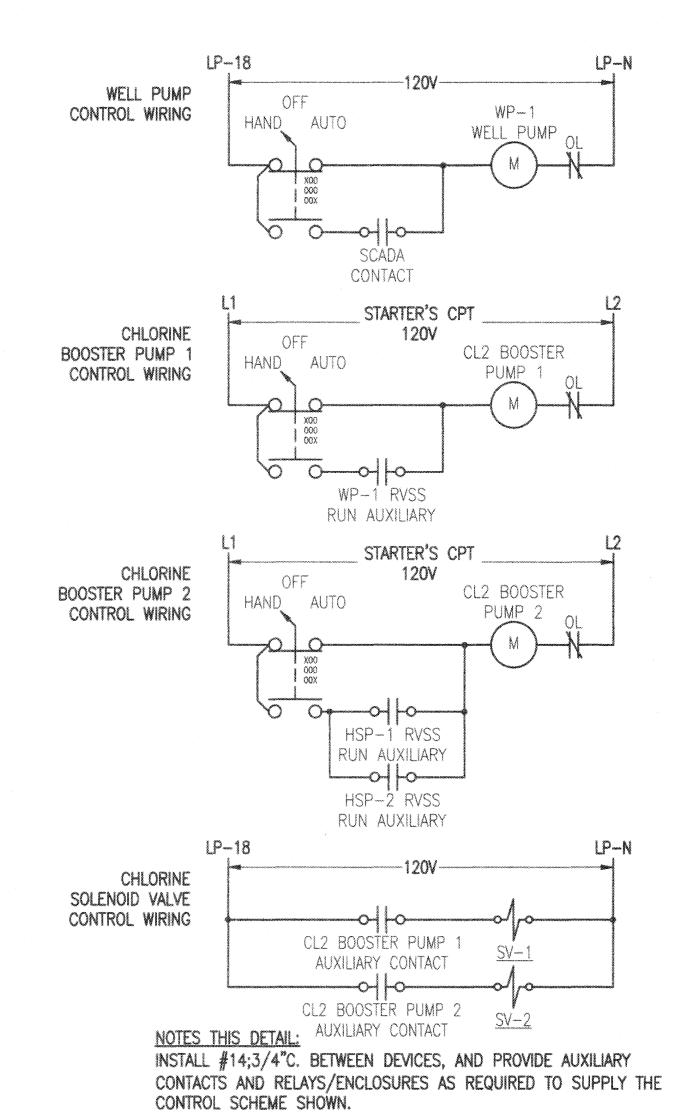
CLOSED WHEN DOOR IS CLOSED.

103-B1

102-B1

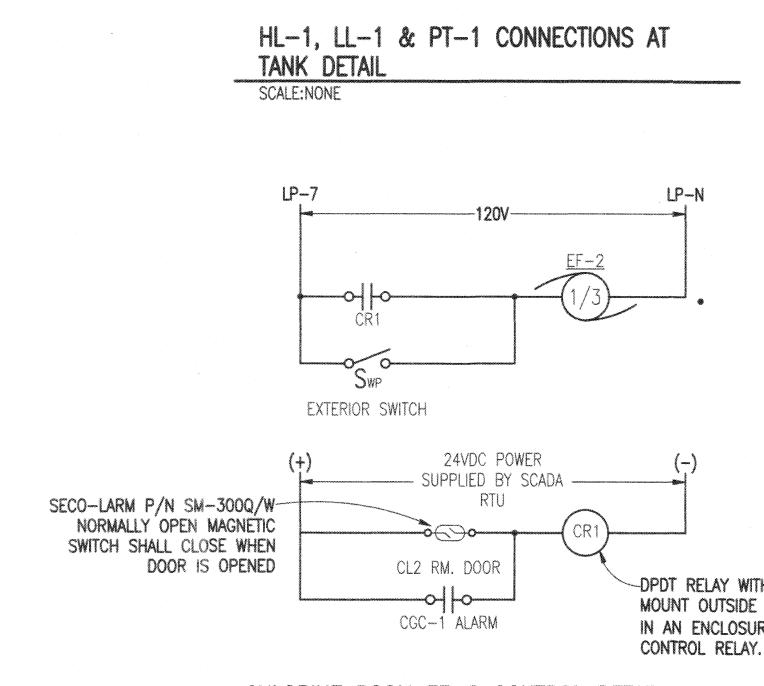
101-B1 101-C1

FLUORIDE RECEPTACLE WIRING DETAIL SCALE:NONE



SV-1 & SV-2 DETAIL

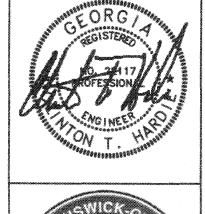
SCALE:NONE

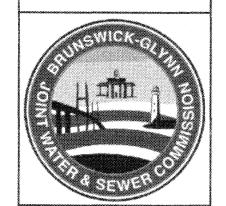


CHLORINE ROOM EF-2 CONTROL DETAIL

CLARKNEXSEN

440 Martin Luther King Jr. Blvd Macon, GA 31201 478.743.8415 Fax: 478.743.8239 www.clarknexsen.com





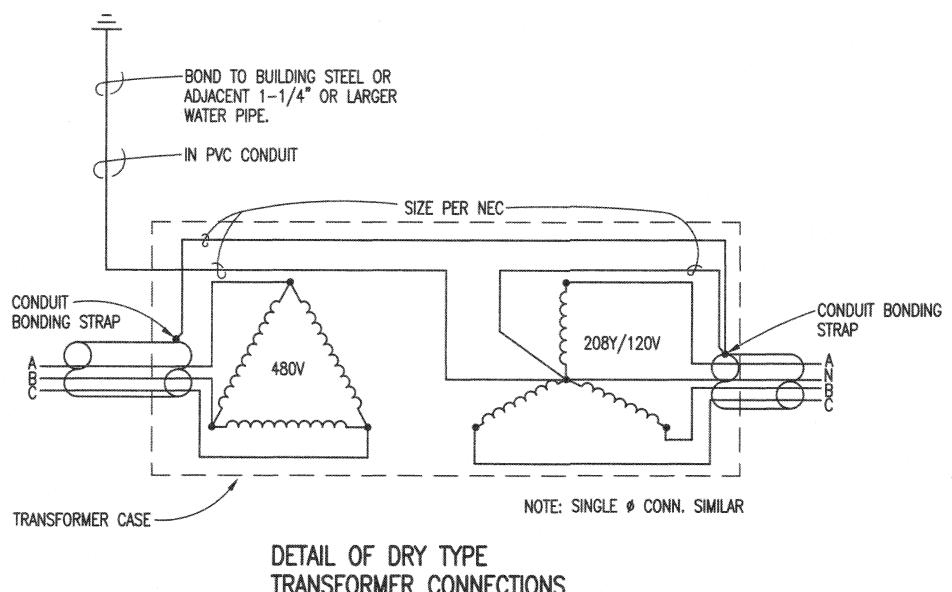
FINO A. R'ENGRON, II., P.E., LE 4875 RIVERSIDE DRIVE, SUITE 101 CONSULTING ENGINEERS MACON, GEORGIA 31210 PHONE: 478,757,1903 FAX: 478,757,1903

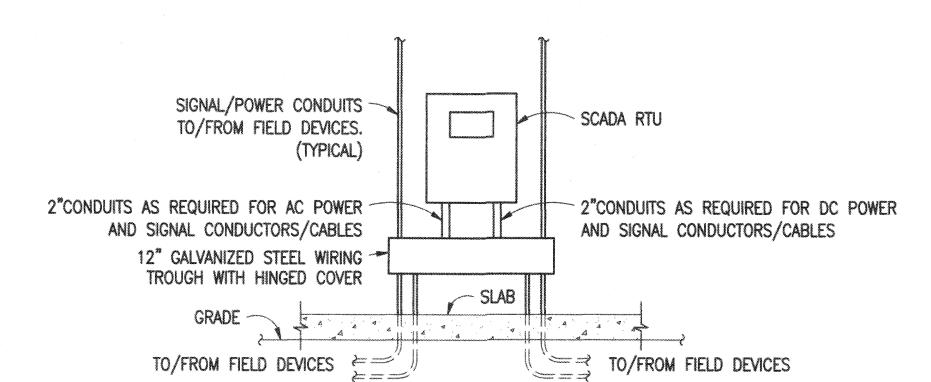
REVISIONS

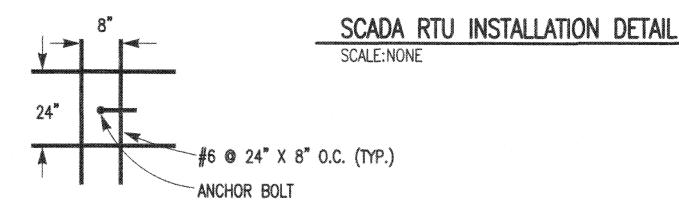
BRUNSWICK - GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
RIDGEWOOD
WATER PRODUCTION FACILITY - MECHANICAL & ELECTRICAL

3 4 5 8 SHEET NO.

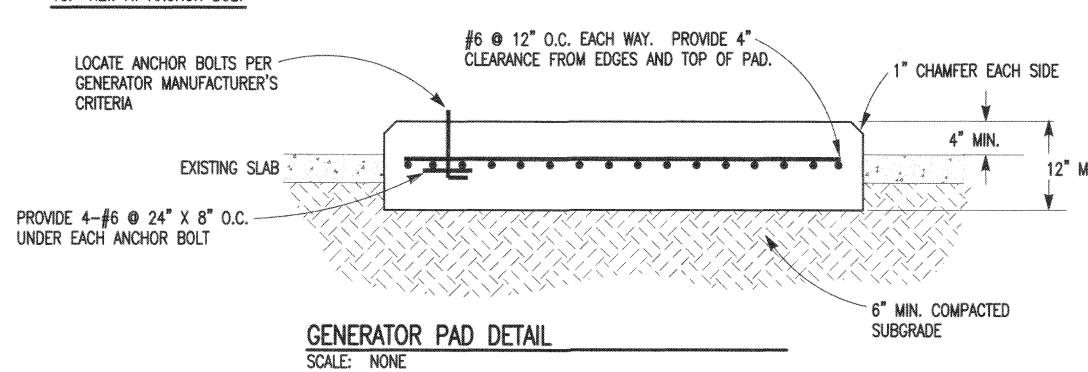
ME-1





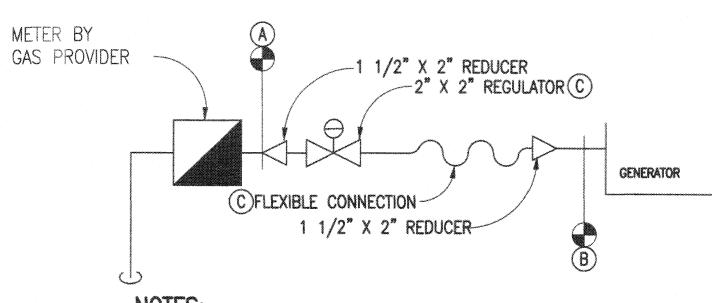


TOP VIEW AT ANCHOR BOLT



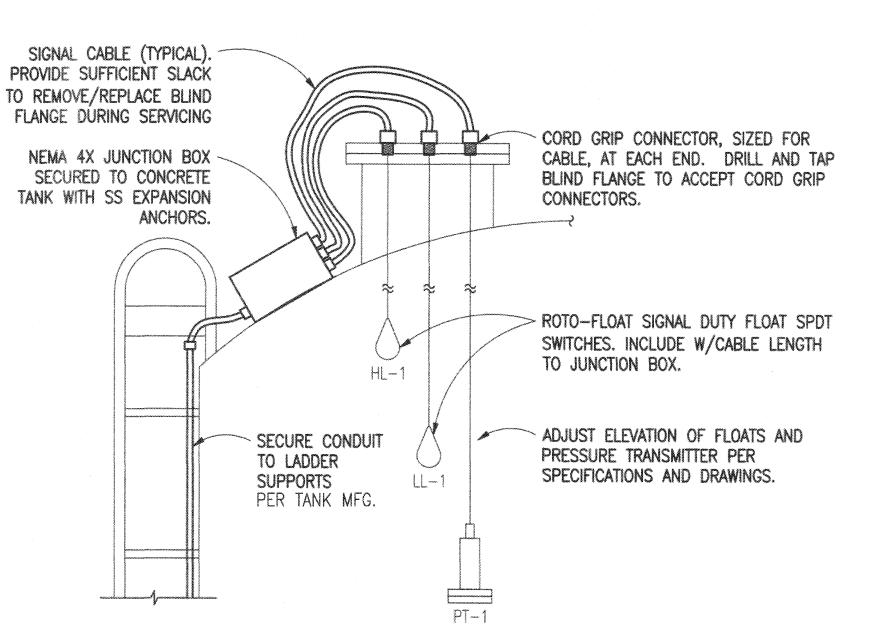
GENERAL NOTES: (GENERATOR PAD DETAIL ONLY)

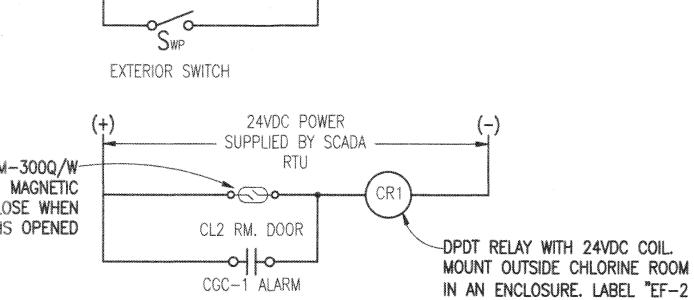
- A. CONCRETE SHALL BE 3000 PSI @ 28 DAYS.
- B. PAD SHALL EXTEND 6" BEYOND GENERATOR ON ALL SIDES.
- C. ALL STEEL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
- D. COORDINATE WITH GENERATOR VENDOR FOR LOCATION OF CONDUITS.
- E. CONCRETE PAD DIMENSIONS AND CONSTRUCTION SHALL BE APPROVED BY GENERATOR MANUFACTURER.
- F. INSTALL PAD TO BE LEVEL. ADD ADDITIONAL CONCRETE AS NECESSARY FOR CONCRETE TO EXTEND 4" (MINIMUM) BELOW GRADE.
- G. CONTRACTOR TO PROVIDE GENERATOR ACCESS PLATFORM STAIRS PER MANUFACTURERS RECOMMENDATION.



- (GAS CONNECTION DETAIL ONLY)
- (A) CONNECT TO METER OUTLET AND INSTALL 2" SCHEDULE 40 GALVANIZED PIPING, FITTINGS, AND CONNECTORS AS INDICATED
- (B) CONNECT TO 1 1/2" GENERATOR GAS INLET AS INDICATED.
- (C) REFER TO SCHEDULES ON SHEET ME-2.

GENERATOR NATURAL GAS CONNECTION DETAIL





LIGHT FIXTURES	S - SEE LIGHTING FIXTURE SCHEDULE
	CHDEACE MOUNTED ELHODECCENT
land f	SURFACE—MOUNTED FLUORESCENT
O	WALL-MOUNTED
Ю	CEILING-MOUNTED POLE-MOUNTED AREA LIGHT
CONVENIENCE	
<u></u> ₩ Ю Ø	DUPLEX (WP=WEATHERPROOF)(G=GROUND-FAULT CIRCUIT-INTERRUPTING)(C=ISOLATED GROUND) JUNCTION BOX WALL, CEILING
SWITCH OUTLE	
SWILCH COILE	SPST TOGGLE SWITCH
	THREE WAY TOGGLE SWITCH
S N	MOTOR—RATED SWITCH
	MOTOR-RATED SWITCH
CIRCUITS	RACEWAY IN CEILING OR WALL
	RACEWAY UNDERFLOOR, UNDERGROUND
	FLEXIBLE RACEWAY
	HOME RUN (ONE ARROW PER CIRCUIT)
	CONDUIT (UP, DOWN)
	EXPOSED RACEWAY
GENERAL EQUI	
	DISCONNECT SWITCH (F=FUSED, N=NON-FUSED)
<u> </u>	COMBINATION STARTER/DISCONNECT
Ø	MOTOR (HORSEPOWER, * FRACTIONAL HORSEPOWER)
~_	208Y/120V, 3ø, 4W ELECTRICAL PANELBOARD (FLUSH MOUNTED, SURFACE)
	480Y/277V, 3Ø, 4W ELECTRICAL PANELBOARD (FLUSH MOUNTED, SURFACE)
<u></u>	WOOD BACKBOARD
	CIRCUIT BREAKER TRANSFORMER
	METER
ADDDDAATIONS	
ABBREVIATIONS 3ø	
	THREE PHASE
4W	FOUR WIRE
AIC	UL LISTED, INTERRUPTING CAPACITY—RMS SYMMETRICAL AMPERES
A, AMP	AMPERES ADOME THISHED TI OOD
A.F.F.	ABOVE FINISHED FLOOR
C, CD.	CONDUIT
HP WA	HORSEPOWER
KVA	KILOVOLT-AMPERES
KW	KILOWATTS LIGHT ENITTING DIODE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
M.B.	MAIN BREAKER
M.L.O.	MAIN LUGS ONLY
RECP.	RECEPTACLE COLUMN CTATE (COST CTATES)
RVSS	REDUCED VOLTAGE SOLID STATE (SOFT STARTER)
UL	UNDERWRITER'S LABORATORY
LINETYPES	ANIC
NEW WORK PL	
***************************************	NEW WORK AND EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED
DEMOLITION PL	
***************************************	EXISTING EQUIPMENT TO BE REMOVED
***************************************	EXISTING EQUIPMENT TO REMAIN OR OTHERWISE NOTED

		NATURAL	GAS REGULA	TOR SCHEE	ULE		
SIZE	MAKE	MODEL	LOAD (CFH)	ORIFICE SIZE	PRES	SURE SET	NOTES
2	SENSUS	243-12-2	1800	1/2"	2 PSI	14" WC	1
NOTES					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

FLEXIB	LE GAS C	ON	NECTOR	SCHEDULE
SIZE	MANUF.		MOD	EL
2"	METRAFLEX		GASCTO)200

1. OTHER MANUFACTURERS REGULATORS ARE ACCEPTABLE IF EQUIVALENT.

······································																
			PANEL	MDP							T	YPE SURFACE				
			VOLTA	GE <u>480Y/277V</u> ,	3ø,	.4W					M	IAINS <u>400A MLO</u>	······································			
POLE	TRIP	CONDUCTOR	CONDUIT	DESIGNATION	KVA	NO		PHASE		NΛ	KVA	DESIGNATION	CONDUIT	CONDUCTOR	TRIP	POLE
7 V Smiles		~~.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***	ØA	ØB	ØC		*****				*****	
3	110*	3#1,#6G	1-1/2"	HIGH SERVICE PUMP, HSP-1	21.4	1	42.8			2	21.4	HIGH SERVICE PUMP, HSP-2	1-1/2*	3#1,#6G	110*	3
					21.4	3		42.8		4	21.4					
ł	Į.	· ·			21.4	5			42.8	6	21.4					·
3	110*	3#1,#6G	2*	WELL PUMP, WP-1	21.4	7	27.2			8	5.8	XLP	3/4"	3#6;#10G	60	3
					21.4	9		27.1		10	5.7					
Į		·			21.4	11			27.2	12	5.8			i i		·
3	15	2#12,#12G	3/4"	EF-1	0.5	13	4.3			14	3.8	UH-2	3/4"	2#10,#10G	30	2
					0.5	15		4.3		16	3.8		ł		ł.	
Ì			+		0.5	17			0.5	18	***	SPACE				-
3	**	**	**	TVSS		19				20	_	SPARE	-	-	50	3
						21				22						
ł					****	23			****	24	-			ł .	+	•
****		***				25				26		SPACE	-	***		
****		***		•		27		*****		28		SPACE	× ·	-	-	
****#.		***				29				30		SPACE	****			
		REAKER WITH LO MANUFACTURER'S)TAL:		74.3	74.2	70.5							

			PANEL VOLTA		Зø,	_4W						YPE <u>SURFACE</u> IAINS <u>100A MB</u>				
POLE	TRIP	CONDUCTOR	CONDUIT	DESIGNATION	KVA	NO	ØA	PHASE ØB	ØC	NO	KVA	DESIGNATION	CONDUIT	CONDUCTOR	TRIP	POLE
1	20	2#12,#12G	3/4"	LIGHTING, INTERIOR	0.8	1	0.9			2	0.1	LIGHTING, EXTERIOR	3/4"	2#12,#12G	20	1
1	20	2#12,#12G	3/4"	RECEPTACLES	1.2	3		1.4		4	0.2	CGC-1 & ESV-1	3/4"	2#12,#12G	20	1
1	20	2#12,#12G	3/4"	SCADA RTU	1.0	5			1.3	6	0.3	AREA LIGHTING: POLE	3/4"	2#12,#12G	20	1
1	20	2#12,#12G	3/4"	EF-2 (1/3 HP)	0.9	7	1.9			8	1.0	UH-1	3/4"	2#12,#12G	20	2
1	20	2#12,#12G	3/4"	RECEPTACLE, SUMP PUMP (1/2HP)	1.2	9		2.2		10	1.0				1	ł
1	20	2#12,#12G	3/4"	RECEPTACLE, FP-1	0.2	11			0.3	12	0.1	RECEPTACLE FOR CS-1	3/4"	2#12,#12G	20	1
1	20	2#12,#12G	3/4"	FIT-1, FIT-2 FLOW TRANS.	0.2	13	0.2			14		SPARE			20	1
1	20	2#12,#12G	3/4"	HSP-1 & -2 HEATERS	0.5	15		0.5		16	••••	SPARE		***	20	1
1	20		-	SPARE	1.0	17			1.1	18	0.1	CONTROL POWER	3/4"	2#12,#12G	20	1
1	20	****	***	SPARE	1.0	19	1.2			20	0.2	GEN. BATTERY CHARGER	3/4"	2#12,#12G	20	1
1	20	•••		SPARE	****	21		0.3		22	0.3	GEN. JACKET HEATER	3/4"	2#12,#12G	20	2
1	20	2#12,#12G	3/4"	RECEPTACLE, SUMP PUMP (1/2HP)	1.2	23			1.5	24	0.3		<u> </u>		<u> </u>	<u> </u>
3	15	2#12,#12G	3/4"	CL2 BOOSTER PUMP 1	8.0	25	1.6			26	0.8	CL2 BOOSTER PUMP 2	3/4"	2#12,#12G		****
					0.8	27		1.6		28	0.8					
ŀ	•	ļ.		.	0.8	29			1.6	30	8.0	<u> </u>	<u> </u>		1	<u> </u>
				TO	TAL:		5.8	6.0	5.8							

						UNI	Г НЕ	ATER	SCH	IEDU	LE							
		MN	IFR		PE	RFORMAI	NCE	М	AX. DIN	IENSI01	NS.	M	OTOR		n.	nr	E.W.T.	XXF
															SI	PE 7F	E.A.T.	XX°F
MARK	C.F.M.	l≍		MODEL			P.D.								31	<u></u>	W.T.D.	XXT
MARK	U.F.M.	403	QMARK	NO.	MBH	KW.	FT. W.G.	LENGTH	HOM	НЕОНТ	RECESSED DEPTH	H.P.	R.P.M.	3 SPEED	S IN.	R IN.	NOTES)
UH-1	150		*	AWH-4408		2		16	4	20	3.5							
UH-2	590	*		HD3D-750		7.5		15	15	26		1/15	1050					

	urun anna kirilikki kirilika na kakirili						FAN :	SCHEDI	JLE								
			MN	FR	na n	MOTOR	,			DR	IVE	AC(CES	SOR	EIES	GENERAL	NOTE: SF=SUPPLY FAN
MARK	C.F.M.	E.S.P. IN. W.G.	ZEL	GREENHECK	MODEL NO.	MAX. HP.	MAX. OPER. WEIGHT (LBS)	MAX. TIP SPEED F.P.M.	MAX. NOISE SONES	CT		VITTY DAWPER	CTRIC DAMPER	SCREEN	F CURB	MARK	EF=EXHAUST FAN RF=RETURN FAN
EF-1	7500	0.125	HARTZE	₩ *	SCE	3/4	150		. MARKE	* DIRE	協	* GRAN	BE	* BIRD	R00F	1;	
EF-2	2410	0.25	*		SERIES 59	1/3	40			*		*		*		2;	

1.	FAN SHAL	L BE	PROVIDED	WIIH	WALL	SLEEV	E, KAIN	HOOD,	RIKDS	CKEEN,	BACKUKAF	I DAMPEK	, AND	MOTOR	JUARU.	
9	EAN CHAI	I DE	DBUVIDED	WITH	ONE	DIEVE	MOI DED	FIREDO	224 12	HOLISING	MOTOR	SUPPORT	RASE	STAINI F	SS STEE	į.

2	FAN SHALL	RF PI	ROVIDED	WITH	ONE	PIFCF	MOLD)FN	FIRERGI ASS	HOUSING	MOTOR	SUPPORT	RASE.	STAINLESS	STFFI
	HARDWARE.									•	moron	OO. , O		O (/ 1) 11	W s maximum
	MAKUNAKE,	rkr r	TOOD MI	in bir	ころり	CLIY,	MNU r	IVE	DWCVDKALI	DAMPER.					

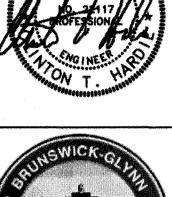
			LIGHTING FIXTURE SCHEDULE		
MARK	LAMPS	VOLTAGE	MANUFACTURER AND CATALOG NO.	MOUNTING	NOTES
٨	LED	120	LITHONIA# DMW2 3000LM PCL MD 120 40K STSL	SURFACE	1:
В	LED	120	LITHONIA# FMML 7 840	SURFACE	****
С	LED	120	LITHONIA# TWR1 LED 2 50K MVOLT	SURFACE	****
D	LED	120	LITHONIA# DSXF3LED 8 A530/50K 120 YKC62 DDBXD	POLE/YOKE	2:

PROVIDE WITH STAINLESS STEEL LATCHES.

PROVIDE WITH PHOTOCELL.

INSTRUMENT NO./ SIGNAL DESIGNATION	DESCRIPTION	DIGITAL INPUT	DIGITAL OUTPUT	ANALOG INPUT	ANALOG OUTPUT
CGC-1	CHLORINE LEAK ALARM	X			
CS-1	CHLORINE TANK SCALE			Χ	
FE-1	RAW WATER FLOW METER				
FE-2	FINISHED WATER FLOW METER				
FIT-1	RAW WATER FLOW TRANSMITTER			Х	
FIT-2	FINISHED WATER FLOW TRANSMITTER			Х	
GEN-ALM	GENERATOR GENERAL ALARM	X			
GEN-AUTO	GENERATOR IN AUTOMATIC	Х			
ATS-NML	NORMAL POWER IS AVAILABLE	1 x			
ATS-N POS	ATS IN NORMAL POSITION	X		<u> </u>	
ATS-E POS	ATS IN EMERGENCY POSITION	X			
HL-1	STORAGE TANK HIGH LEVEL SWITCH	X			
HSP-1 AMPS	HIGH SERVICE PUMP 1 MOTOR CURRENT	<u> </u>		Х	
HSP-1 H-O-A	HIGH SERVICE PUMP 1 IN AUTO	T X			<u> </u>
HSP-1 RUN	HIGH SERVICE PUMP 1 RUN COMMAND		X		
HSP-1 RUNS	HIGH SERVICE PUMP 1 RUNNING	T X		•	***************************************
HSP-1 SPEED	HIGH SERVICE PUMP 1 SPEED COMMAND		<u> </u>	•	X
HSP-2 AMPS	HIGH SERVICE PUMP 2 MOTOR CURRENT			X	
HSP-2 H-O-A	HIGH SERVICE PUMP 2 IN AUTO	X			
HSP-2 RUN	HIGH SERVICE PUMP 2 RUN COMMAND		l x		
HSP-2 RUNS	HIGH SERVICE PUMP 2 RUNNING	l x		<u> </u>	
HSP-2 SPEED	HIGH SERVICE PUMP 2 SPEED COMMAND				l x
<u> </u>	DOOR SWITCHES CONNECTED IN SERIES	X			
LL-1	STORAGE TANK LOW LEVEL SWITCH	T X		*	
PT-1	STORAGE TANK LEVEL TRANSMITTER		<u> </u>	X	·····
PT-2	FINISHED WATER PRESSURE TRANSMITTER		 	X	
WP-1 H-O-A	WELL PUMP 1 IN AUTO	T X			
WP-1 RUN	WELL PUMP 1 RUN COMMAND		X	†	***************************************
WP-1 RUNS	WELL PUMP 1 RUNNING	X	<u> </u>	1	

1. 24VDC CONTROL POWER SHALL BE PROVIDED FROM THE SCADA RTU





	Elmo A. Richardson, Jr., P.E	4875 RIVERSIDE DRIVE, SUITE 101 CONSULTING EN	PHONE: 478.757.1903	FAC. 11.1303	The Contrador shoel verify & he responsible for all denousbons, DO NOT scale the streets, Any even of contrador. Evelopes is discussed on the Cooperation of the Coop
COMMENTS					REVISIONS
DATE					
NO.					***************************************

BRUNSWICK - GLYNN COUNTY JOINT WATER & SEWER COMMISSION RIDGEWOOD WATER PRODUCTION FACILITY

SCHEDULES - MECHANICAL & ELECTRICAL

ME-2

CLARKNEXSEN

440 Martin Luther King Jr. Blvd Macon, GA 31201 478.743.8415 Fax: 478.743.8239 www.clarknexsen.com

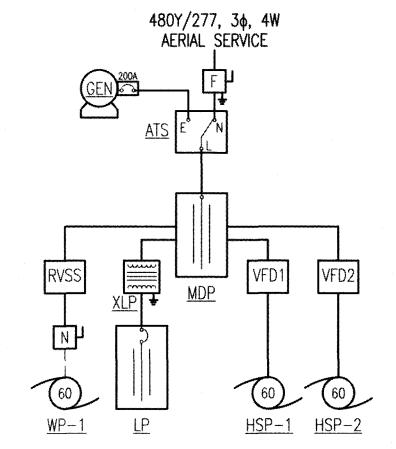
MECHANICAL NOTES:

- (THIS SHEET ONLY)
- A. EF-2. MOUNT MAXIMUM OF 12" AFF. B. INSTALL ELECTRIC WALL HEATER UH-1 ABOVE EXHAUST FAN.
- C. EF-1. PROVIDE WITH COOLING THERMOSTAT FOR CONTROL.
- PROVIDE WALL SWITCH FOR CONTROL OF EF-2. ROUTE CONTROL THROUGH CHLORINE GAS SENSOR CONTROLLER. CONTROLLER SHALL OPERATE EXHAUST FAN. WHENEVER CHLORINE IS SENSED ABOVE ALLOWABLE LEVELS.
- MOUNTED UH-2 MIN. 7' AFF.
- F. 3/4" SCHEDULE 80 PVC PIPE ROUTED UNDERGROUND, TURNED UP 2" A.F.F., CAPPED AND MARKED "FUTURE."

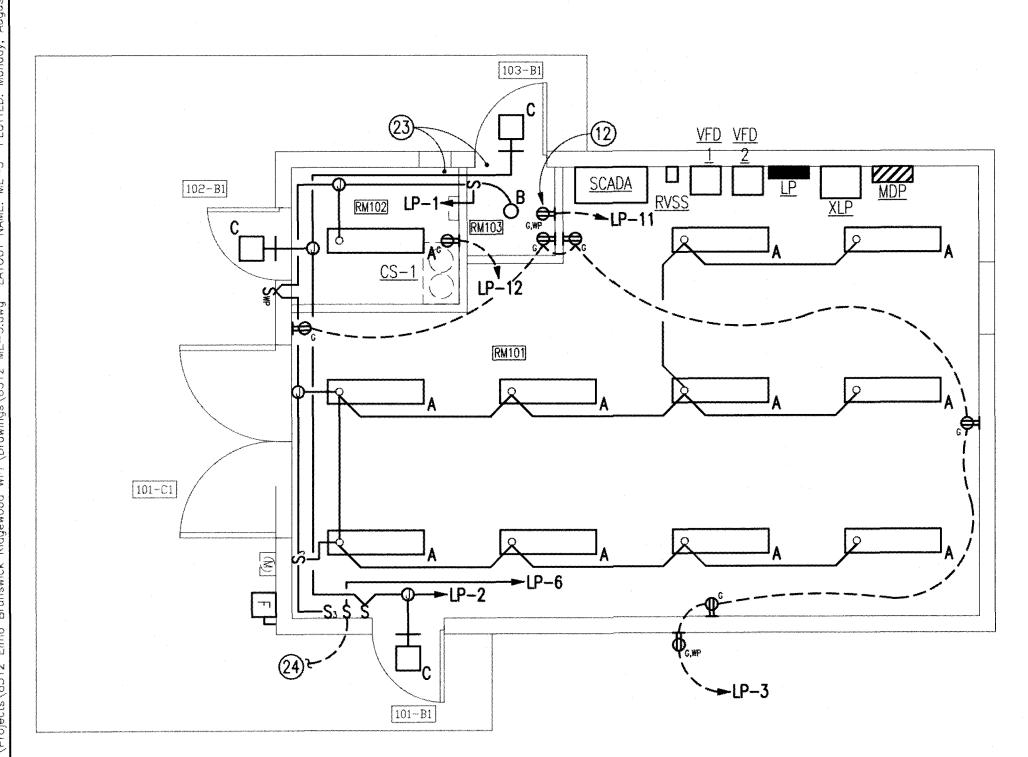
DEDUCTIVE ALTERNATE 1 NOTES:

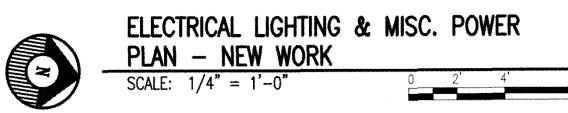
DEDUCTIVE ALTERNATE 1 CONSISTS OF:

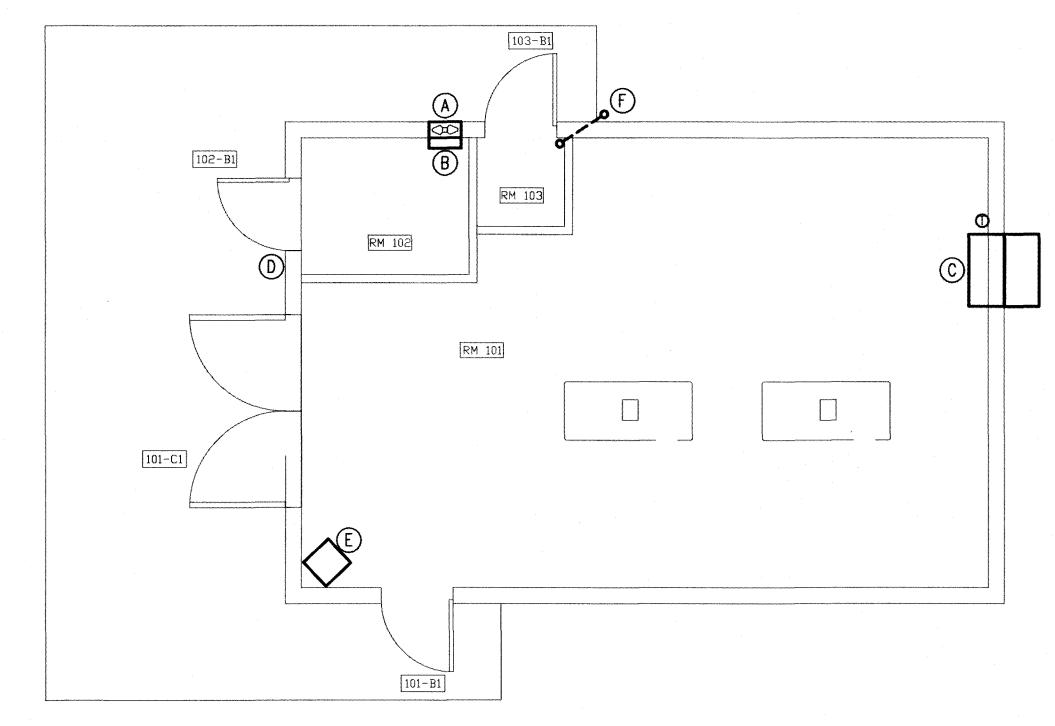
- GENERATOR.
- AUTOMATIC TRANSFER SWITCH (ATS).
- CIRCUITS FOR BATTERY CHARGER.
- CIRCUITS FOR JACKET HEATER.
- CIRCUITS FOR GENERATOR/ATS/SCADA CONTROL INTERFACE.
- ALL NATURAL GAS WORK TO SERVE GENERATOR.
- START UP AND CHECKOUT SERVICES FOR THE ABOVE.



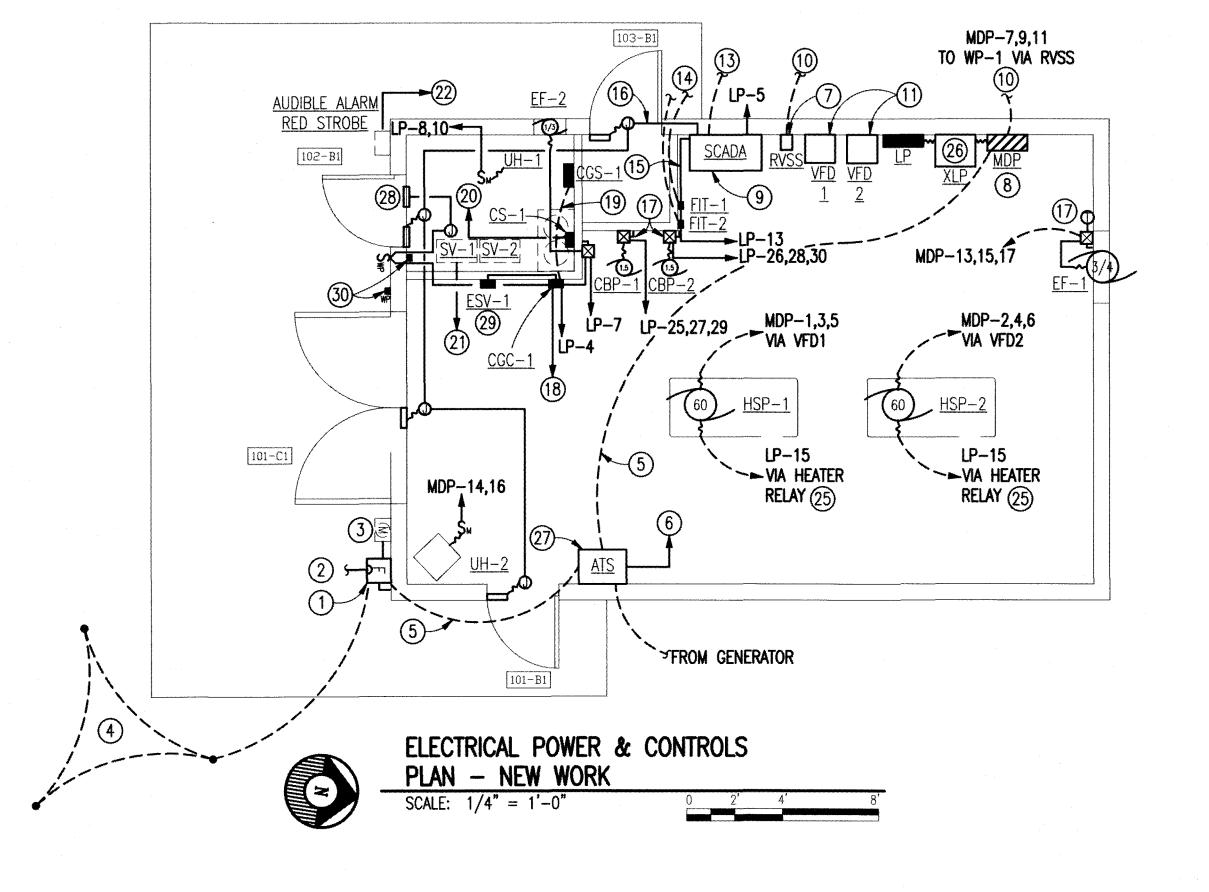
ONE-LINE DIAGRAM - NEW WORK SCALE: NONE







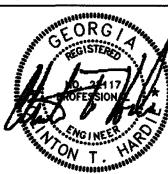


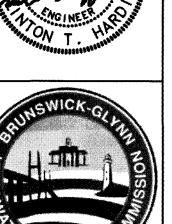


ELECTRICAL NOTES:

(THIS SHEET ONLY)

- 1. 400A/3P NEMA 3R FUSED SERVICE ENTRANCE RATED DISCONNECT SWITCH FUSED AT 400A. PROVIDE ALL APPURTENANCES REQUIRED FOR SERVICE ENTRANCE RATING.
- 2. INSTALL 4#500KCMIL;3-1/2"C SERVICE ENTRANCE THROUGH WEATHERHEAD LOCATED 3' ABOVE ROOF. PROVIDE CONDUIT SECURED TO EXTERIOR WALL OF BUILDING AND THROUGH ROOF. PROVIDE CONDUIT FLANGE AT ROOF. PROVIDE 6' OF SLACK CONDUCTORS AT WEATHERHEAD FOR UTILITY CONNECTION. ANY INTERMEDIATE POLE NECESSARY FOR ROUTING OF AERIAL FEEDER SHALL BE PROVIDED BY THE UTILITY COMPANY.
- 3. METERING CT CABINET. COORDINATE WITH GEORGIA POWER FOR METERING EQUIPMENT. INSTALL CONDUIT, CONDUCTORS, GROUNDING AND METERING EQUIPMENT PER GEORGIA POWER REQUIREMENTS.
- 4. GROUNDING COUNTERPOISE: THREE GROUND RODS ON 10' MINIMUM SPACING. CONNECTIONS SHALL BE EXOTHERMIC. CONNECT RODS WITH 2/0 AWG BARE COPPER. ROUTE 2/0 AWG TO SERVICE ENTRANCE SWITCH AND BOND PER NEC.
- 5. 4#500,#2G;3-1/2°C.
- 6. 6#14;3/4"C. TO SCADA RTU FOR CONTROLS.
- DANFOSS MCD202-045-T6-CV1 60HP RVSS SOFT STARTER IN A NEMA 4X ENCLOSURE.
- 8. MAIN DISTRIBUTION PANEL "MDP." SEE SCHEDULE, SHEET ME-2.
- 9. NEW SCADA RTU PER JWSC STANDARDS BY ELECTRIC MACHINE CONTROL, INC. 7015 HALSTEN DRIVE, TRUSSVILLE, AL 35173. CONTACT JAMES DENTON, (205) 661-3998, JDENTON@EMCINC.BIZ. SEE SCADA RTU INSTALLATION DETAIL, SHEET ME-1 AND SCADA I/O LIST, SHEET ME-2.
- 10. TO EXISTING 60HP WELL PUMP WP-1. SEE PANEL SCHEDULE AND ELECTRICAL SITE PLAN.
- 11. DANFOSS FC302 60HP VFD IN A NEMA 4X ENCLOSURE. COORDINATE REQUIRED I/O AND CONTROLS WITH SCADA CONTRACTOR.
- 12. RECEPTACLE FOR FUTURE FLUORIDE METERING PUMP. INSTALL A SUITABLY SIZED WALL-MOUNTED NEMA 4X ENCLOSURE ABOVE RECEPTACLE TO HOUSE THE POWER RELAY TO CONTROL THE RECPTACLE. SEE FLUORIDE RECEPTACLE WIRING DETAIL, SHEET ME-1
- 13. 3/4"C. TO ABOVE GROUND TANK WITH 2#14 FOR HL-1, 2#14 FOR LL-1 AND (1) BELDEN 8760 CABLE FOR PT-1. SEE TANK CONNECTIONS DETAIL, SHEET ME-1 AND ELECTRICAL SITE PLAN, SHEET
- 14. ROSEMOUNT SENSOR CABLE;3/4"C. TO FLOW METERS FE-1 AND FE-2. PROVIDE CABLE AND MAKE CONNECTIONS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- 15. FLOW TRANSMITTERS FIT-1 AND FIT-2. ROUTE (1) BELDEN 8760 SIGNAL CABLE;1/2"C. FROM EACH TRANSMITTER TO SCADA RTU FOR ANALOG FLOW RATE. MAKE CONNECTIONS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- 16. 2#14;1/2"C. TO SCADA RTU FOR 24VDC DIGITAL INTRUSION DETECTION. DOOR SWITCHES SHALL BE SECO-LARM# SM-200Q/W MAGNETIC REED SWITCH CONNECTED IN SERIES. SEE INTRUSION DETECTION DETAIL, SHEET ME-1.
- 17. NEMA SIZE 1 COMBINATION MOTOR CONTROLLER.
- 18. 2#14;1/2"C. USE CGC-1 ALARM CONTACTS FOR CHLORINE LEAK ALARM TO SCADA RTU. MAKE CONNECTIONS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS. SEE CHLORINE ROOM EF-2 CONTROL DETAIL, SHEET ME-1.
- 19. (1) BELDEN 8760 SIGNAL CABLE;1/2"C. FOR CHLORINE SENSOR. ROUTE TO CGC-1. MAKE CÓNNECTIONS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS. TERMINATE CABLE SHIELD ONLY AT CONTROLLER.
- 20. (1) BELDEN 8760 SIGNAL CABLE;1/2"C. TO SCADA RTU FROM CHLORINE TANK SCALE.
- 21. ROUTE #14;3/4"C. AS REQUIRED TO MAKE CONNECTIONS PER SV-1 & SV-2 DETAIL, SHEET ME-1.
- 22. MOUNT AUDIBLE ALARM AND RED STROBE ON EXTERIOR WALL 7' ABOVE FINISHED GRADE. ROUTE #14;3/4"C. AS REQUIRED TO MAKE CONNECTIONS PER CHLORINE ROOM AUDIBLE ALARM & STROBE DETAIL. SHEET ME-1.
- 23. ALL EXPOSED ELECTRICAL CONDUIT, BOXES, FITTINGS, ETC. IN ROOMS 102 AND 103 SHALL BE CORROSION RESISTANT: PVC WITH STAINLESS STEEL HARDWARE OR APPROVED EQUAL.
- 24. TO POLE-MOUNTED AREA LIGHTS. SEE PANLEBOARD LP SCHEDULE AND ELECTRICAL SITE PLAN, SHEET
- 25. INSTALL A POWER RELAY ADJACENT HSP'S VFD TO CONTROL PUMP MOTOR 120V ANTI-CONDENSATION HEATER POWER. HEATER SHALL BE ON WHEN MOTOR IS NOT RUNNING. ROUTE TO MOTOR WITH #12:3/4°C.
- 26. 30KVA 480V-208Y/120V DRY TYPE TRANSFORMER. GROUND PER NEC. ROUTE 4#2,#8G;1"C. TO PANELBOARD LP.
- 27. 400A/3P AUTOMATIC TRANSFER SWITCH WITH SOLID NEUTRAL.
- 28. MAGNETIC REED SWITCH TO OPERATE CHLORINE ROOM EXHAUST FAN WHEN DOOR IS OPENED. SEE CHLORINE ROOM EF-2 CONTROL DETAIL, SHEET ME-1.
- 29. ROUTE INDIVIDUAL RUNS OF 2#14;1/2"C. FROM ESV-1 TO EACH CHLORINE CYLINDER VALVE ACTUATOR, TO TWO EMERGENCY CHLORINE STOP PUSHBUTTONS, AND TO CGC-1. MAKE CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.
- 30. INSTALL (2) TWO EMERGENCY CHLORINE STOP PUSHBUTTONS: (1) INSIDE AND (1) OUTSIDE CHLORINE





REVISIONS

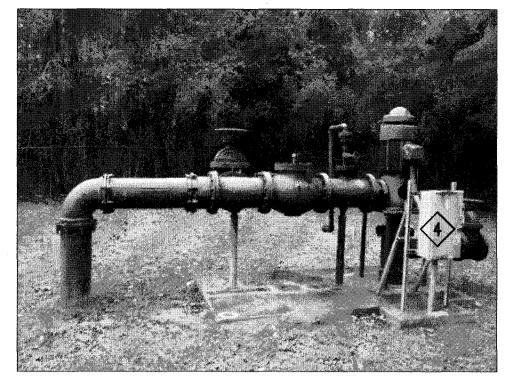
MECHANICAL & ELECTRICAL

PRODUCTION FACILITY

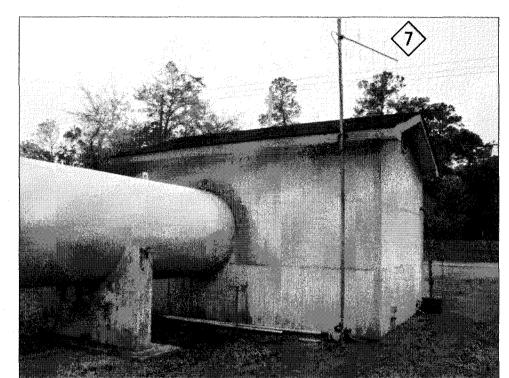
SHEET NO. ME-3

CLARKNEXSEN

440 Martin Luther King Jr. Blvd Macon, GA 31201 478.743.8415 Fax: 478.743.8239 www.clarknexsen.com



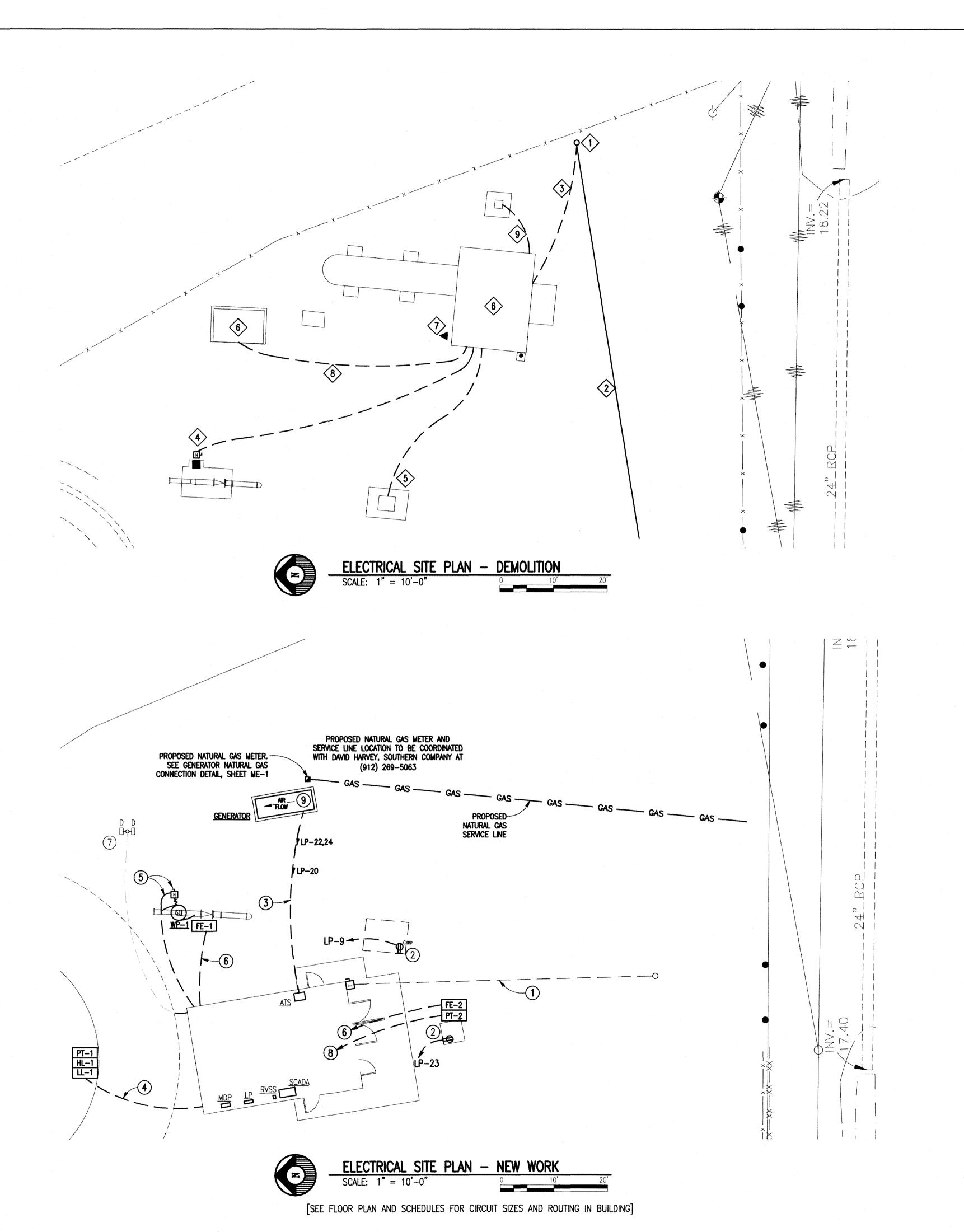
EXISTING WELL PUMP AND DISCONNECT N.T.S.



EXISTING BUILDING AND SCADA ANTENNA N.T.S.



EXISTING GEORGIA POWER TRANSFORMER N.T.S.



DEMOLITION NOTES:

(THIS SHEET ONLY)

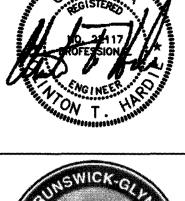
- 1. EXISTING UTILITY POLE TO BE REMOVED. COORDINATE WITH GEORGIA POWER COMPANY FOR REMOVAL OF POLE.
- 2. DEMOLISH EXISTING AERIAL SERVICE.
- 3. DEMOLISH EXISTING UNDERGROUND SERVICE LATERAL.
- 4. DEMOLISH WELL PUMP MOTOR CIRCUIT AND DISCONNECT. WELL PUMP TO BE RECONNECTED FOLLOWING OVERHAUL.
- 5. DEMOLISH RECEPTACLE CIRCUIT AND ANALOG CIRCUIT FROM SCADA RTU TO METER PIT. DELIVER FLOW METER AND ALL APPURTENANCES TO OWNER.
- 6. DEMOLISH ALL ELECTRICAL IN EXISTING BUILDING TO INCLUDE LIGHTING, RECEPTACLES, MOTOR CONTROL CENTER, AUTOMATIC TRANSFER SWITCH, PANELBOARD AND SCADA RTU. DELIVER SCADA RTU AND ALL PROCESS INSTRUMENTS TO OWNER.
- 7. DEMOLISH EXISTING SCADA ANTENNA SUPPORT MAST.
- 8. REMOVE FEEDER SERVING CHLORINE SHED.
- 9. DEMOLISH WELL PUMP MOTOR CIRCUIT AND DISCONNECT. WELL PUMP TO BE REMOVED.

NEW WORK NOTES:

(THIS SHEET ONLY)

- 1. NEW AERIAL SERVICE BY UTILITY COMPANY.
- 2. RECEPTACLE FOR SUMP PUMP IN CONCRETE VAULT. CORE WALL TO ROUTE CONDUIT. MOUNT HIGH ON INTERIOR WALL OF
- 3. GENERATOR POWER OUTPUT, BATTERY CHARGER, JACKET HEATER AND CONTROL CIRCUITS. ROUTE 4#3/0,#6G;2"C. TO ATS. ROUTE A 2"C. WITH #14 CONDUCTORS AND CABLES PER MANUFACTURER'S INSTRUCTIONS TO ATS FOR CONTROLS. ROUTE A 3/4"C. WITH 2#14 TO SCADA RTU FOR GENERATOR ALARM.
- 4. LEVEL TRANSMITTER AND LEVEL SWITCH CIRCUITS.
- 5. NEW CIRCUIT TO EXISTING WELL PUMP. INTERCEPT EXISTING CONDUIT UNDERGROUND. INSTALL NEMA 4X STAINLESS STEEL 200A/3P NON-FUSED DISCONNECT SWITCH.
- 6. MANUFACTURER'S FLOW METER SIGNAL CABLE;1"C. TO CORRESPONDING FLOW INDICATING TRANSMITTER (FIT) INSIDE BUILDING, SEE SHEET ME-3.
- 30' CLASS 5 WOODEN POLE BURIED 5' IN FIRM EARTH. AIM ONE FIXTURE TOWARD STORAGE TANK AND THE OTHER TOWARD WELL PUMP. SEE FLOOR PLAN FOR SWITCH LOCATION.
- 8. BELDEN 8760 CABLE;3/4"C. TO SCADA RTU.
- 9. 150KW 480Y/277V GENERATOR AND PAD. SEE GENERATOR PAD DETAIL, SHEET ME-1.







P.E.,

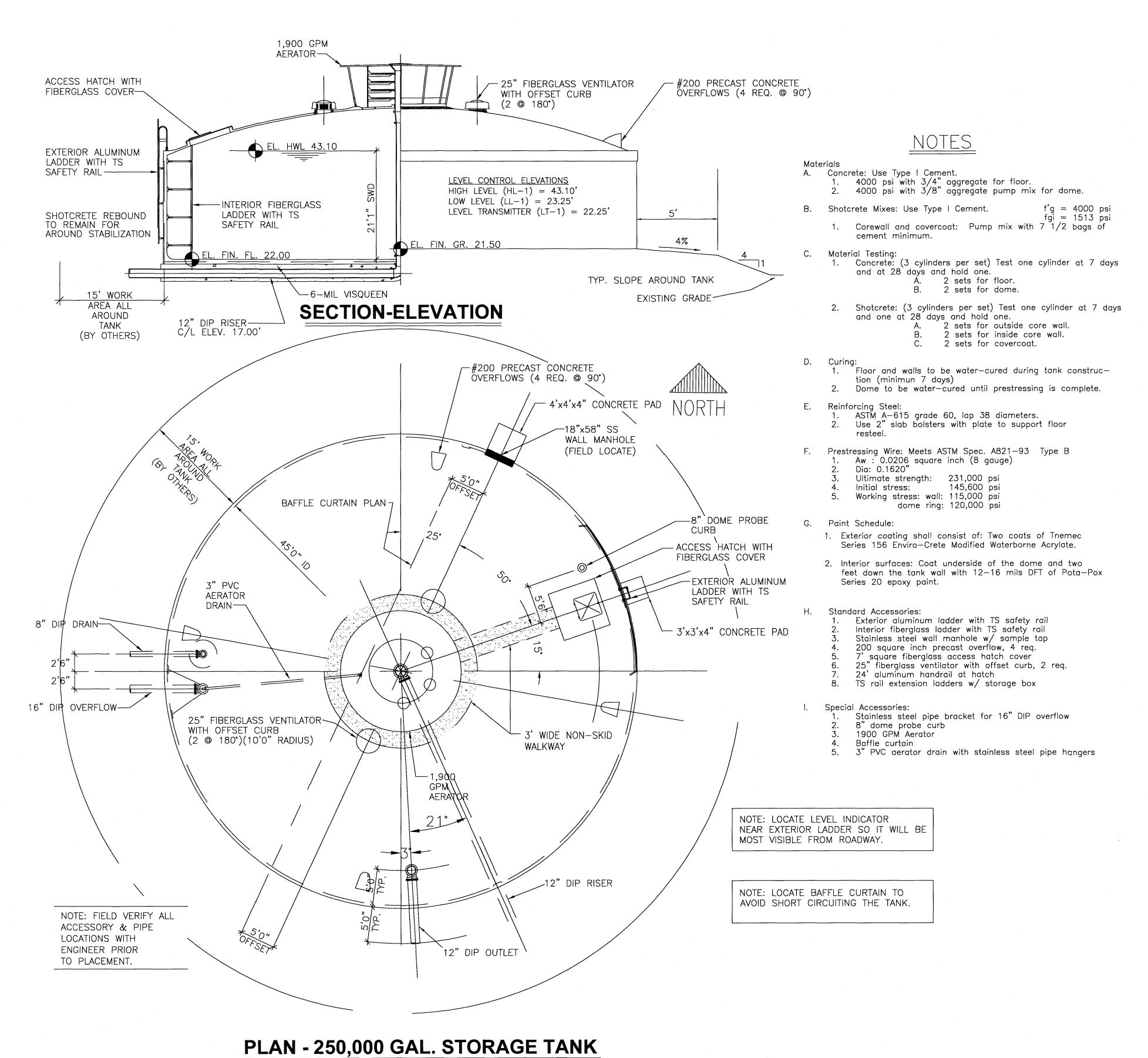
GLYNN COUNTY & SEWER COMMI FACILIT

SHEET NO.

ME-4

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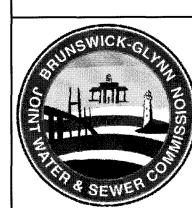
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N.T.S.



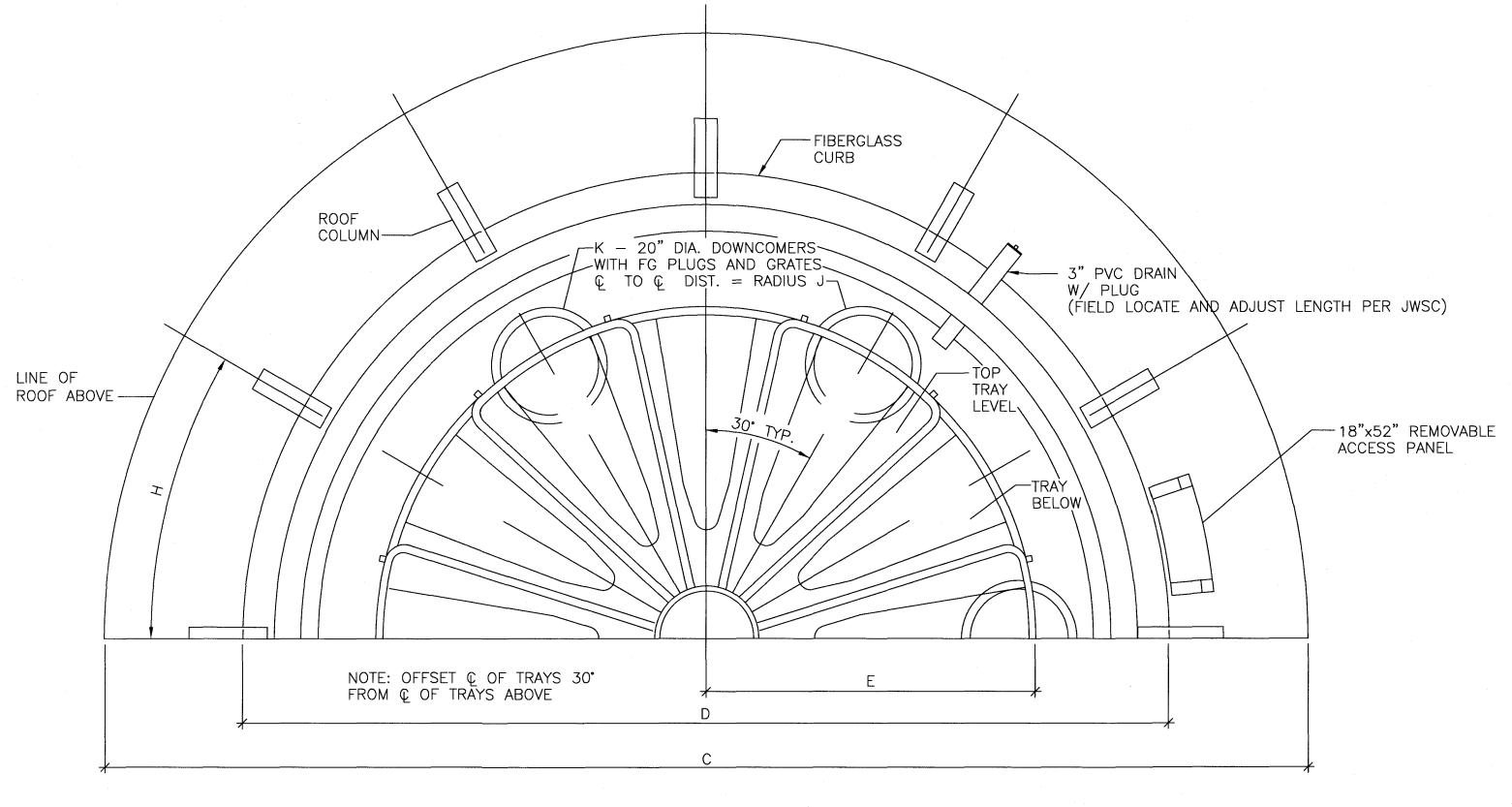


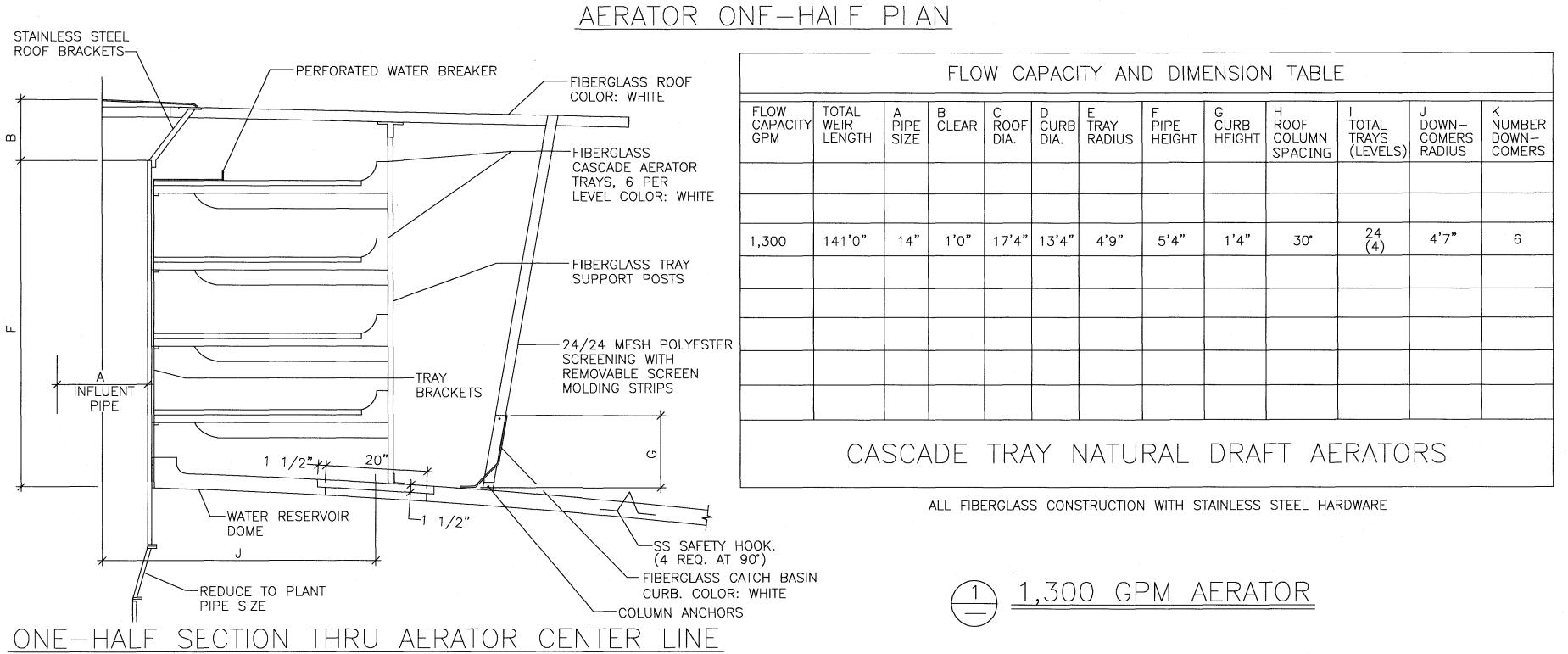
Elmo A. Richarc	Elmo A. Richardson, Jr., P.E., LLC
4875 RIVERSIDE DRIVE, SUITE 101 MACON, GEORGIA 31210 PHONE: 478.757.1963 FAX: 478.757.1963	CONSULTING ENGINEERS
The Contractor shell verify & be responsible for all dimensions. CO NOT scale the drawing. A Engineer immediately. The Copyright to all designs & drawings are the property of Elmo A. Ri- Reproduction or use for any purpose other than that authorized by the Enginfreer is prohibited.	The Contractor shall varify & be responsible for all dimensions. DO NOT scale the drawing. Any error or omssons shall be reported to the Engineer immediately. The Copyright to all designs & drawings are the property of Elmo A Ricardson, Jr., P.E., LLC (the Engineer). Reproduction or use for any purpose other than that authorized by the Enginheer is prohibited.

REVISIONS

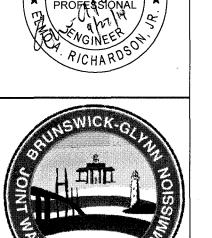
BRUNSWICK - GLYNN COUNTY
JOINT WATER & SEWER COMMISSION
RIDGEWOOD
WATER PRODUCTION FACILITY
GROUND STORAGE TANK - PLAN & ELEY

GST-1





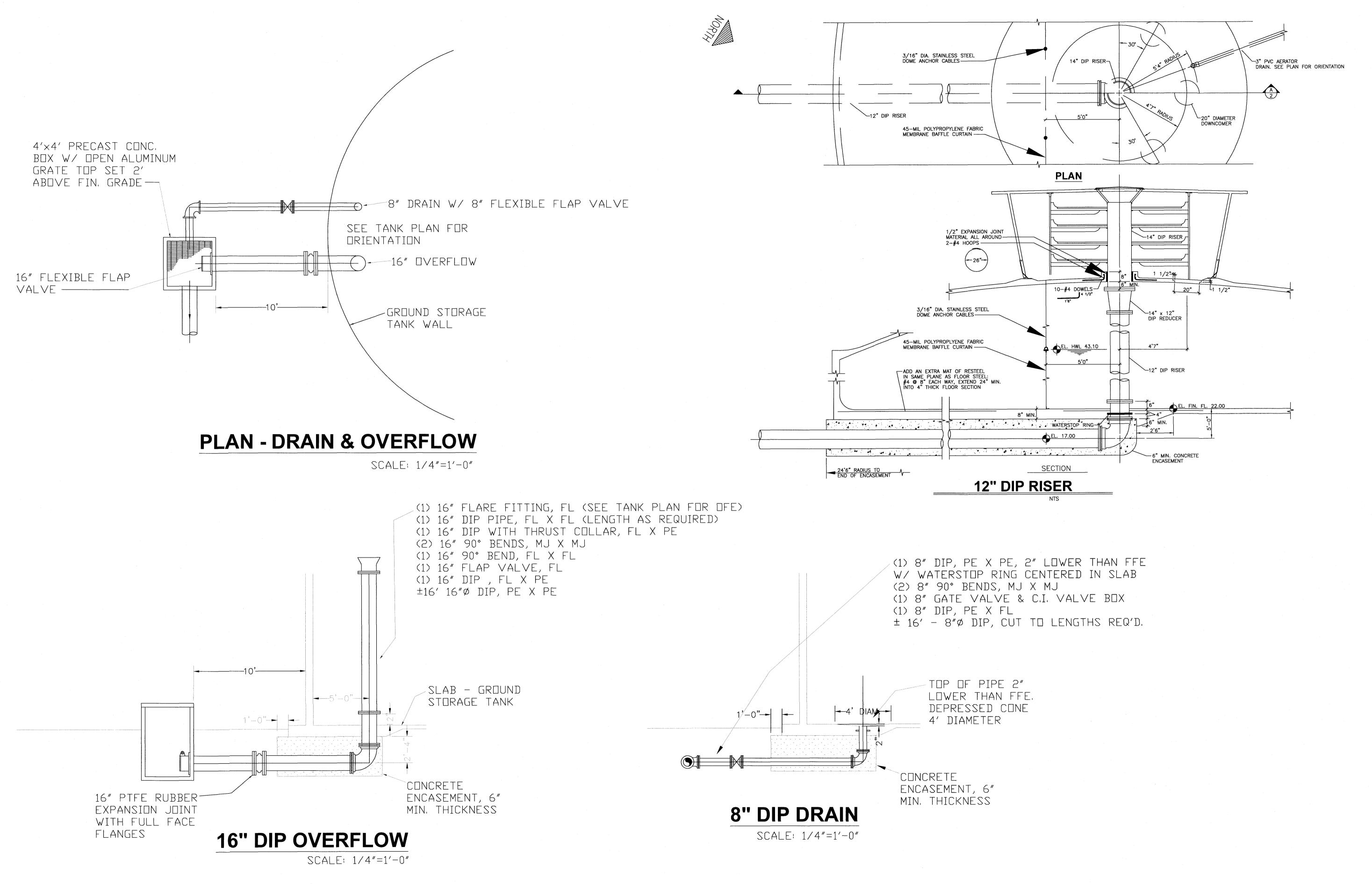




	& SEWER
Elmo A. Richardson, Jr., P.E., LLC	CONSULTING ENGINEERS
Elmo A. Richar	4875 RIVERSIDE DRIVE, SUITE 101 MACON, GEORGIA 31210 PHONE: 478.757.1903 FAX: 478.757.1963

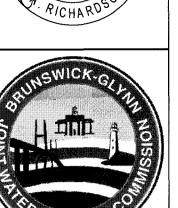
COMMENTS				
DATE				

BRUNSWICK - GLYNN COUNTY JOINT WATER & SEWER COMMISSION	RIDGEWOOD WATER PRODUCTION FACILITY	AERATOR DETAILS
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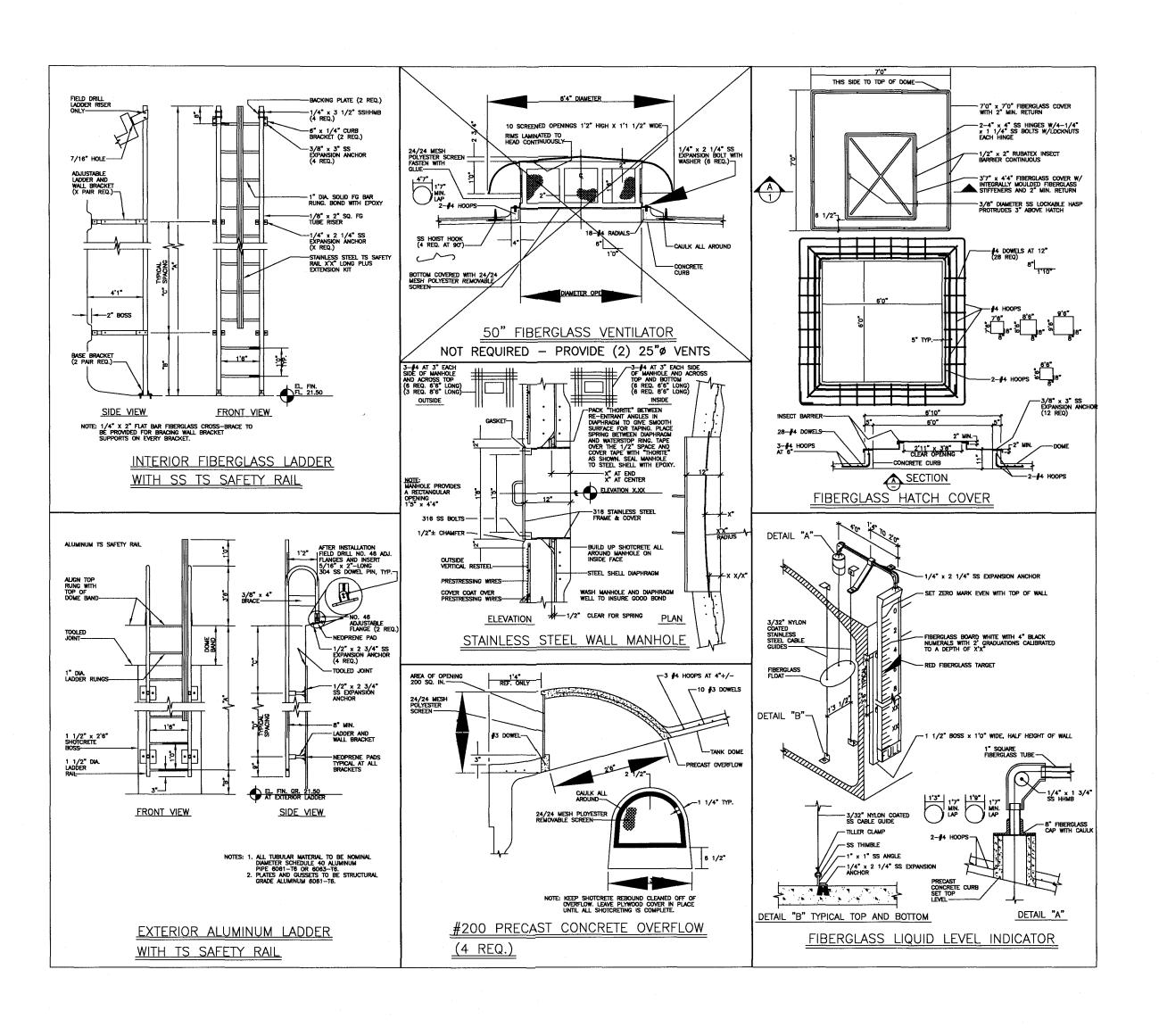


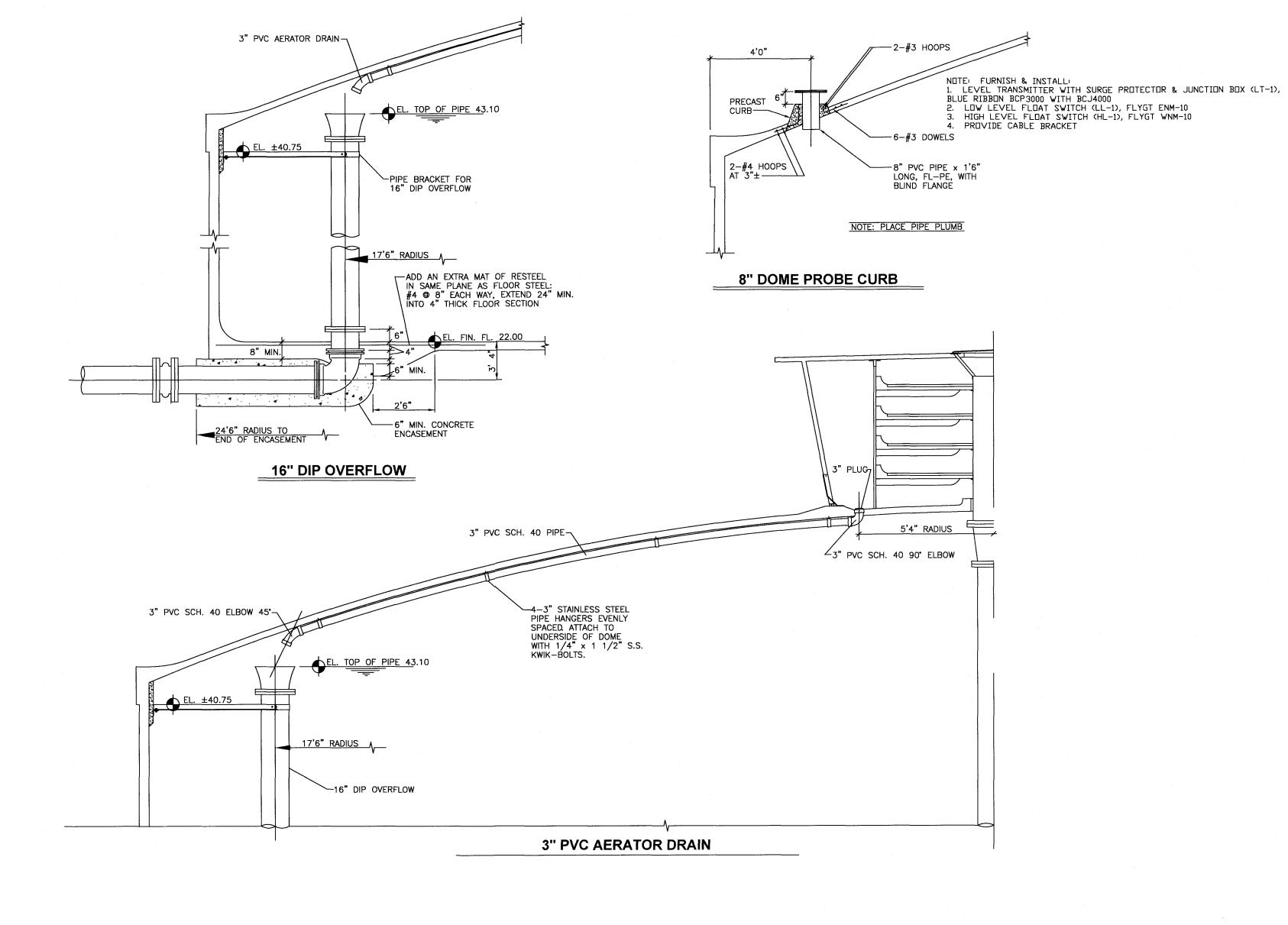




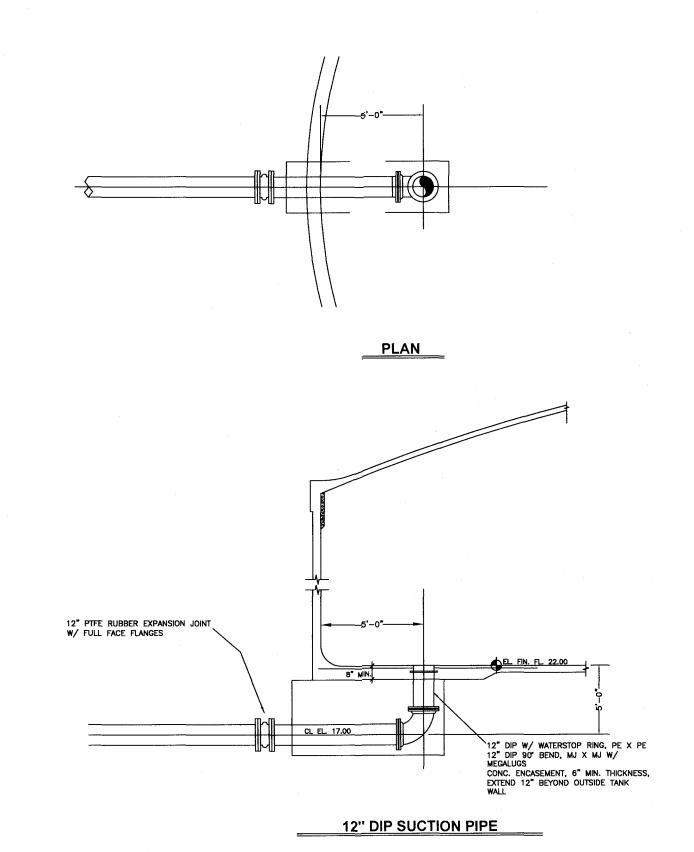
- GLYNN COUNTY R & SEWER COMMISSION

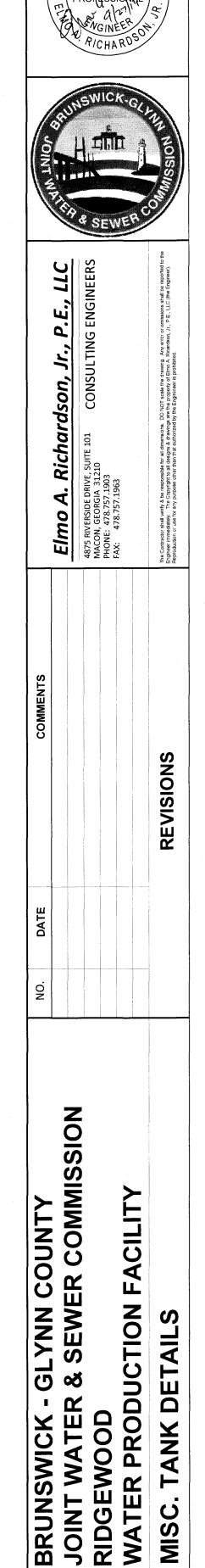
GST-3





NOTE: CONTRACTOR TO PROVIDE 1 LARGE AND 1 EXTRA LARGE, BUCKLE TYPE, FULL BODY HARNESS W/ D-RINGS, 2 SHOCK ABSORBING LANYARDS AND 2 SAFETY COLLARS IN 18"x18"x12" WATERTIGHT ALUMINUM BOX.





TANK DETAILS

GST-4