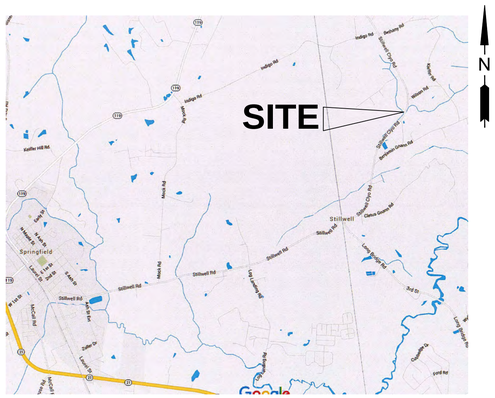
STILLWELL-CLYO ROAD FIRE STATION

FOR

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
TELEPHONE NO. (912) 754-2123



VICINITY MAP
NOT TO SCALE

FEBRUARY 2017

CHAIRMAN AT LARGE
WESLEY CORBITT

COMMISSIONERS

DISTRICT 1	**FORREST FLOYD**
DISTRICT 2	**VERA JONES**
DISTRICT 3	**JAMIE DELOACH**
DISTRICT 4	**REGINALD "REGGIE" S. LOPER, SR.**
DISTRICT 5	**PHIL KIEFFER**

GEORGIA REGISTERED 32181 PROFESSIONAL ENGINEER ANTHONY TOSS ALLEN 2/8/2017

INDEX OF DRAWINGS

GENERAL NOTES:

1. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT.

2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.

3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.

4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. (NAVD 88)

5. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER.

6. SUBGRADE WILL BE COMPACTED FOR A DEPTH OF 24" EXTENDING 24" BEYOND PAVEMENT EDGES, TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AS MEASURED BY A.A.S.H.T.O. METHOD T-99. 9.

7. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING , EDGE OF SURFACE COURSE OR BACK OF CURBING.

8. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY THE LOCAL JURISDICTION.

10. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH GA. D.O.T. STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

12. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.

13. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.

14. CONTRACTOR SHALL PROVIDE CRUSHED STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.

15. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.

16. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.

17. THE DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHOULD CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.

18. ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

19. ANY UTILITIES THAT UNDERLIE THE SITE SHOULD BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

20. THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM OF 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. UNSUITABLE SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH ASTM D2487 SOIL CLASSIFICATION GROUPS ML, MH, CH, CL, OL AND PT. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557 . ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM-D-1557. THE ENGINEER SHALL CERTIFY THE PROOF ROLLING PROCESS AND THE RESULTS OF THE PROOF ROLL.

21. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF NON PLASTIC GRANULAR MATERIAL WITH A MAXIMUM OF 25% FINES PASSING THE NO. 200 SIEVE. THE FILL SHOULD BE FREE OF ORGANICS, ROOTS, OR OTHER DELETERIOUS MATERIALS. FILL CLASSIFIED AS SW, SP, SP-SM OR SM WITH A MAXIMUM OF 15% PASSING A NO. 200 SIEVE MAY BE ACCEPTABLE.

22. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.

23. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PER GADOT, M.U.T.C.D. AND THE LOCAL JURISDICTIONS SPECIFICATIONS.

24. ALL STANDARD HIGHWAY SIGNS AND POSTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE PLANS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, SUPPLEMENTIAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

GSWCC
GEORGIA SOIL AND WATER CONSERVATION COMMISSION
ANTHONY T. ALLEN
Level II Certified Design Professional
CERTIFICATION NUMBER 0000044936
ISSUED 04/20/2016 EXPIRES 04/20/2019

811
Know what's below.
Call before you dig.

UTILITY NOTES:

1. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.

2. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE DILUTED AND DISCHARGED IN ACCORDANCE WITH AWWA C651-99 "DISINFECTING WATER MAINS" SEC.4.5-4.5.2.

3. PIPE, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE LOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM DIRT AND OTHER FOREIGN MATTER AT ALL TIMES.

4. ANY DEFECTIVE, DAMAGED OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY APPROVED MEANS AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.

5. CLEAN THE INTERIORS OF ALL PIPE BY WASHING OUT ALL DIRT BEFORE LAYING.

6. FLUSH THE NEW PIPE LINES UNTIL WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHOULD BE DONE AFTER THE PRESSURE TEST AND BEFORE DISINFECTION.

7. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR APPROVED EQUAL, WILL BE USED TO FORM A WATER TIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.

8. MAINTAIN A MINIMUM OF EIGHTEEN (18") INCH VERTICAL CLEARANCE BETWEEN THE WATER LATERAL AND THE STORM DRAINAGE.

9. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE DONE BY THE CORE DRILL METHOD.

10. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE. SET ALL MH TOPS ±3" ABOVE FINISHED GRADE.

11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CERTIFICATIONS OF BACKFLOW DEVICES TO THE ENGINEER.

12. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT 811 TO INSURE PROPER LOCATIONS OF EXISTING UTILITIES.

13. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AND APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER.

14. ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + (NPT) NATIONAL PIPE THREAD.

15. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.

16. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICT WITH EXISTING UTILITIES NOT SHOWN ON THESE PLANS PRIOR TO LAYING ANY PIPE.

17. FIRE HYDRANTS SHALL BE AT LEAST 18" ABOVE FINISHED GRADE (MEASURED FROM BOTTOM OF 4-1/2" DISCHARGE TO FINISHED GRADE).

18. SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES. CIVIL INFORMATION TERMINATES 5' FROM BUILDING ENVELOPE.

19. CONTRACTOR TO COORDINATE TYPE AND INSTALLATION OF DOMESTIC AND/OR IRRIGATION WATER METERS, BACKFLOW PREVENTERS AND DETECTOR CHECK VALVES WITH UTILITY COMPANY.

20. ALL RELOCATED SERVICES TO BE INSTALLED PRIOR TO CONNECTION TO EXISTING SERVICE TO MINIMIZE THE TIME THE EXISTING BUILDING IS TO BE WITHOUT SERVICE. NOTIFY AND COORDINATE WITH OWNER.

21. ALL SANITARY SEWER PIPES SHALL MEET THE REQUIREMENTS OF ASTM D-3034, SDR 35. AND HAVE A MINIMUM COVER OF 36" FROM FINISHED GRADE.

22. WATER MAINS SHALL HAVE A MINIMUM OF 36" OF COVER FROM FINISHED GRADE.

23. AIR RELIEF VALVES SHALL BE INSTALLED OF ALL HIGH POINTS IN WATER MAINS AND FORCE MAINS WHERE AIR MAY ACCUMULATE. THESE LOCATION SHALL BE FIELD DETERMINED BY THE CONTRACTOR.

24. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

25. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 30" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.

26. ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED ABOVE UNDER ITEM 19.

27. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO THE TOP OF THE VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.

28. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED ABOVE UNDER ITEM 21.

29. SEWER SERVICE LATERALS SHALL BE INSTALLED AT RIGHT ANGLES.

30. THE TENNIS BALL TEST ON SANITARY LATERALS WILL NEED TO BE CONDUCTED TWICE. ONCE BEFORE THE INSTALLATION OF THE DRY UTILITIES AND ONCE AFTER ALL DRY UTILITIES HAVE BEEN INSTALLED. THE SANITARY SEWER LATERALS MUST PASS THE TENNIS BALL TEST BEFORE FINAL ACCEPTANCE WILL BE GRANTED.

31. ALL SANITARY SEWER SERVICE LATERALS WILL BE REQUIRED TO BE CAPPED.

LEGEND

	EXISTING	PROPOSED
CONTROL NAIL	NF	NS
IRON PIPE	IPF	IPS
IRON REBAR	IRF	
CONCRETE MONUMENT	CMF	
RIGHT-OF-WAY MARKER	RWMF	RWMS
BENCHMARK	BMF	BMS
RAILROAD CROSSING ARM		
PIPES		
DRAINAGE MANHOLE		
GRATE INLET		
FLARED END SECTION		
INVERT ELEVATION	IE 12.00	IE 12.00
CURB INLET TYPE A		
CURB INLET TYPE B		
CURB INLET TYPE C		
RIP RAP		
BACKFLOW PREVENTER	BFP	BFP
BLOW-OFF	BO	BO
FIRE HYDRANT		
HOSE BIBB (SPIGOT)	HB	HB
WELL		
WATER LINE MARKER	WMK	WMK
WATER METER	WM	WM
WATER MANHOLE	MH	MH
WATER VALVE	WV	WV
POWER POLE	PP	PP
GUY POLE	GP	GP
LIGHT POLE	LP	LP
GROUND LIGHT	GL	GL
ELECTRICAL LINE MARKER	EMK	EMK
ELECTRICAL MANHOLE	MH	MH
ELECTRICAL CONTROL BOX	ECB	ECB
ELECTRICAL OUTLET BOX	EOB	EOB
ELECTRICAL SERVICE METER	EM	EM
ELECTRICAL TRANSFORMER	TRANS	TRANS
GAS LINE MARKER	GMK	GMK
GAS METER	GM	GM
TELEPHONE PEDESTAL	TELE PED	TELE PED
TELEPHONE LINE MARKER	TMK	TMK
CLEANOUT		CO
CENTER SANITARY MANHOLE	MH	
GREASE TRAP	GT	GT

CHAIN LINK	—X—X—X
BARBED WIRE	—X—X—X
HOG WIRE	—X—X—X
WROUGHT IRON	—X—X—X
WOODEN	—X—X—X
SILT FENCE (SINGLE)	—X—X—X—X—
SILT FENCE (DOUBLE)	—XX—XX—XX—XX—
CENTERLINE OF ROAD	
EDGE OF ASPHALT	
CURB & GUTTER	
RAILROAD TRACK	
WATERMAIN LINE (EXISTING)	W
WATERMAIN LINE (PROPOSED)	12"W
UNDERGROUND POWER CABLE	UGP
OVERHEAD POWER CABLE	OHP
GAS LINE	G
UNDERGROUND TELEPHONE CABLE	UGT
OVERHEAD TELEPHONE CABLE	OHT
UNDERGROUND FIBER OPTIC CABLE	UGF
OVERHEAD FIBER OPTIC CABLE	OHF
UNDERGROUND CABLE TV	
OVERHEAD CABLE TV	
EXISTING SEWER LINE	SS
PROPOSED SEWER LINE	
FORCEMAIN LINE	FM

601 NORTH LAUREL STREET
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PH:(912) 754-8060
FX:(912) 754-9959
EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

REVISIONS	
NUMBER	DATE
-	-
-	-
-	-
-	-

DESIGNED	ATA
DRAWN	ATA
CHECKED	ATA
DATE	FEB 2017
JOB NO.	16-001
SCALE	N.T.S.

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

GENERAL NOTES AND LEGEND

SHEET NUMBER
C1.0

EROSION AND SEDIMENT NARRATIVE NOTES:

1. ***DESCRIPTION:*** THIS SITE IS LOCATED ON THE WEST SIDE OF STILLWELL-CLYO ROAD JUST SOUTH OF ITS INTERSECTION WITH BENJAMIN GNANN ROAD AT THE POINT WHERE THE ROADWAY CROSSES STILLWELL BRANCH IN EFFINGHAM COUNTY, GEORGIA. THE SITE IS APPROXIMATELY 1.35 ACRES AND IS CURRENTLY VACANT AND WOODED WITH NATIVE VEGETATION. THE OWNER INTENDS TO CONSTRUCT A FIRE STATION AND RELATED INFRASTRUCTURE. (PIN 444-40 FORMERLY)

2. ADJACENT PROPERTY:
NORTH: SINGLE FAMILY AR-1
SOUTH: WOODED AREA AR-1
WEST: WOODED AREA AR-1
EAST: STILLWELL-CLYO ROAD

3. ***ZONING:*** THE PRESENT ZONING CLASSIFICATION FOR THE ABOVE REFERENCED SITE IS AR-1.

4. ***SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION:*** FOR INFORMATION REGARDING THE SOILS, TOPOGRAPHIC AND DRAINAGE INFORMATION PLEASE REFERENCE THE PAVING, GRADING, AND DRAINAGE PLAN, AND THE SOIL EROSION PLANS OF THE CONSTRUCTION DRAWINGS.

5. ***VEGETATION:*** THE SITE IS CURRENTLY COMPRISED OF SMALL PINES AND NATIVE SHRUBS AND BUSHES.

6. ***BUFFER REQUIRMENTS:*** AS REQUIRED BY ARTICLES 15 AND 16 OF SECTION 12-7-6 OF THE "GEORGIA EROSION AND SEDIMENTATION ACT OF 1975", THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STEAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF THE NATURAL RESOURCES AND THE ENVIROMENT, WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO OCGA 12-2-8, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED.

7. ***EROSION CONTROL PROGRAM:*** CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL WILL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND-DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.

8. ***SEDIMENT CONTROL PROGRAM:*** SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF 631 LINEAR FEET OF SEDIMENT. ADDITIONALLY, A CONSTRUCTION EXIT SHALL BE INSTALLED TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC.

9. ***STANDARDS AND SPECIFICATIONS:*** ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

10. ***SAFETY PROTECTION:*** CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS. THE SEDIMENT BASINS WILL BE CONVERTED TO STORM WATER DETENTION STRUCTURES.

11. ***MAINTENANCE PROGRAM:*** SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE AREAS WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.

Ds2-Ds3 NOTES:

Ds2 - 1. A TEMPORARY GRASSING OF BROWN TOP MILLET SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE DURING THE MONTHS OF MAY AND JUNE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.

Ds3 - 1. A PERMANENT GRASSING OF PENSACOLA BAHIA SHALL BE APPLIED AT A RATE OF 60 LBS. PER ACRE DURINGTHE MONTH OF JULY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.

2. A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.

3. DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMILY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPEMENT, OTHER SPREADING EQUIPEMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

12. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

13. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRATICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.

14. THE TOTAL SITE ACREAGE FOR THIS PHASE OF DEVELOPMENT IS 1.00 ACRES. THE TOTAL DISTURBED AREA IN THIS PHASE IS 0.86 ACRES.

15. ACCORDING TO FIRM FLOOD INSURANCE RATE MAP, COMMUNITY NO. 130076, PANEL NO. 0150 D, DATED DECEMBER 17, 2010, THIS SITE IS LOCATED IN ZONE X, NOT A FLOOD HAZARD ZONE AS DETERMINED BY FEMA.

16. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:

EFFINGHAM COUNTY PUBLIC WORKS
601 NORTH LAURELSTREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2141

17. DEVELOPER/OWNER:

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

18. PRIMARY PERMITTEE:

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

19. TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL.

EFFINGHAM COUNTY BOARD OF COMMISSIONERS
601 NORTH LAUREL STREET
SPRINGFIELD, GEORGIA 31329
(912) 754-2111

20. THE EXISTING SOIL TYPE IS AS FOLLOWS:

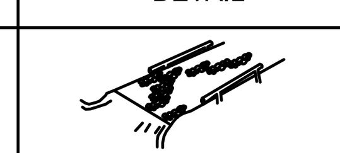
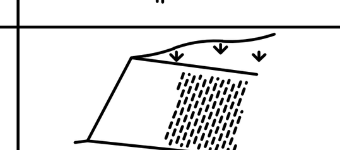
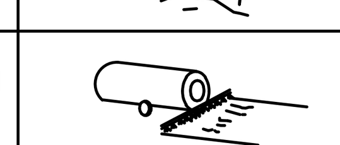
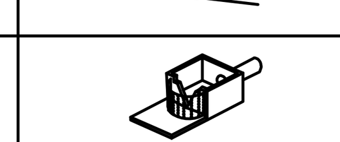
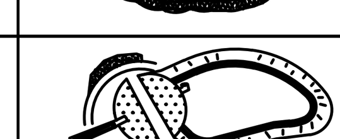
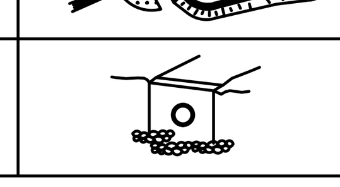
LeA - Leefield loamy sand, 0 to 2 percent slopes
SuA - Surrency mucky sand, 0 to 2 percent slopes
SeA - Seagate loamy sand, 2 percent slopes

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATES PER ACRE SEEDED ALONE	RATES PER ACRE ADDED TO MIX	PERMANENT COVER	RATES PER ACRE SEEDED ALONE	RATES PER ACRE ADDED TO MIX
JANUARY	RYEGRASS RYE	40 lbs. 3 bu.	- .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA [1]	10 lbs. 75 lbs.	6 lbs. -
FEBRUARY	ANNUAL LESPEDEZA RYEGRASS RYE	40 lbs. 40 lbs. 3 bu.	10 lbs. - .5 bu.	UNHULLED BERMUDA SERICEA LESPEDEZA [1]	10 lbs. 75 lbs.	8 lbs. -
MARCH	WEEPING LOVEGRASS ANNUAL LESPEDEZA	4 lbs. 40 lbs.	4 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 10 lbs. 60 lbs.	30 lbs. 8 lbs. -
APRIL	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET	4 lbs. 80 lbs. 40 lbs.	4 lbs. 80 lbs. 40 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
MAY	WEEPING LOVEGRASS SUDANGRASS BROWN TOP MILLET PEARL MILLET	4lbs. 60 lbs. 40 lbs. 50 lbs.	4lbs. 60 lbs. 40 lbs. 50 lbs.	PENSACOLA BAHIA WEEPING LOVEGRASS HULLED BERMUDA SERICEA LESPEDEZA [2]	60 lbs. 6 lbs. 10 lbs. 60 lbs.	30 lbs. 6 lbs. 6 lbs. -
JUNE	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA HULLED BERMUDA	60 lbs. 10 lbs.	30 lbs. 6 lbs.
JULY	PEARL MILLET SUDANGRASS BROWN TOP MILLET	50 lbs. 60 lbs. 40 lbs.	50 lbs. 60 lbs. 40 lbs.	PENSACOLA BAHIA	60 lbs.	30 lbs.
AUGUST	PEARL MILLET RYE	50 lbs. 3 bu.	50 lbs. 3 bu.	PENSACOLA BAHIA	60 lbs.	30 lbs.
SEPTEMBER	RYEGRASS OATS WHEAT	40 lbs. 4 bu. 3 bu.	40 lbs. 4 bu. 3 bu.	SERICEA LESPEDEZA [1]	75 lbs.	-
OCTOBER	RYEGRASS OATS WHEAT RYE BARLEY	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	3 bu. 40 lbs. 3 bu. 3 bu. 4 bu.	SAME AS SEPTEMBER	SAME AS SEPTEMBER	
NOVEMBER	SAME AS OCTOBER	SAME AS OCTOBER		SAME AS SEPTEMBER	SAME AS SEPTEMBER	
DECEMBER	SAME AS OCTOBER	SAME AS OCTOBER		SAME AS SEPTEMBER	SAME AS SEPTEMBER	

NOTES
1. [1] UNSCARIFIED
2. [2] SCARIFIED
3. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
4. LISTED IN ORDER OF PREFERENCE.
5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWNING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.
Du	DUST CONTROL ON DISTURBED AREAS		Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRICTION SITE, ROADWAYS AND SIMILAR SITES.
Rt	RETROFITTING		Rt	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER		x—x—x—x	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE.
Sd3	TEMPORARY SEDIMENT BASIN			A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT.
St	STORM DRAIN OUTLET PROTECTION		St	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL PREVENTED BY THE INSTALLATION OF EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

4. THERE ARE NO STATE WATERS LOCATED WITHIN 200' OF THIS SITE.

5. THERE WILL BE NO WETLANDS IMPACTED DUE TO THE DEVELOPMENT OF THIS SITE.

6. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

7 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

8. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

SEDIMENT STORAGE NOTE:

THE TOTAL DISTURBED AREA FOR THE DEVELOPMENT IS APPROXIMATELY 0.86 ACRES. THE REQUIRED SEDIMENT STORAGE VOLUME FOR THIS ACREAGE IS 58 CY. THE SILT FENCE ON THE PROJECT WILL TRAP APPROXIMATELY 41 CY OF SEDIMENT. THE OVEREXCAVATED DETENTION POND WILL TRAP APPROXIMATELY 20 CY OF SEDIMENT. 61 CY > 58 CY REQUIRED.

SILT FENCE STORAGE CALCULATION

1. DISTURBED AREA = 0.86 AC

2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA
REQUIRED SEDIMENT STORAGE = 67 CY/AC * 0.86 AC
REQUIRED SEDIMENT STORAGE = 58 CY = 1,556 CF

3. ASSUME SEDIMENT DEPTH OF 9" AGAINST SILT FENCE DETERMINE REQUIRED SURFACE AREA

4. SAmin = REQUIRED SEDIMENT STORAGE/ SEDIMENT DEPTH
SAmin = 1,556 CF/ 0.75 FT
SAmin = 2074 SF

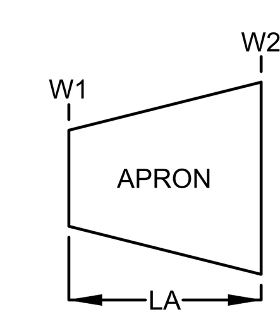
5. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG SILT FENCE IS POSSIBLE.
LENGTH OF SILT FENCE (L) = 744'
DEPTH OF SEDIMENT (D) = 0.75'
WIDTH OF SEDIMENT STORAGE AREA (W) = 2'

L x D x W = 1116 CF

41 CY OF SEDIMENT STORAGE IS AVAILABLE IN THE SILT FENCE.

OUTLET PROTECTION SUMMARY

OUTFALL NO.	TYPE OF OUTFALL	FLOW RATE	VELOCITY	LA	W1	W2	STONE DIAMETER	STONE DEPTH
1	18" FES	2.67 CFS	2.2 FPS	8'	4.5'	9.5'	MIN. OF 9"	9"
2	18" PIPE	2.67 CFS	1.5 FPS	8'	4.5'	9.5'	MIN. OF 9"	9"



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
ANTHONY T. ALLEN
Level II Certified Design Professional
CERTIFICATION NUMBER 0000044936
ISSUED 04/20/2016 EXPIRES 04/20/2019

GEORGIA REGISTERED PROFESSIONAL ENGINEER 32181 ANTHONY TOSS ALLEN 2/6/2017

601 NORTH LAUREL STREET
SPRINGFIELD, GA 31329
PH:(912) 754-8060
FX:(912) 754-9959

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

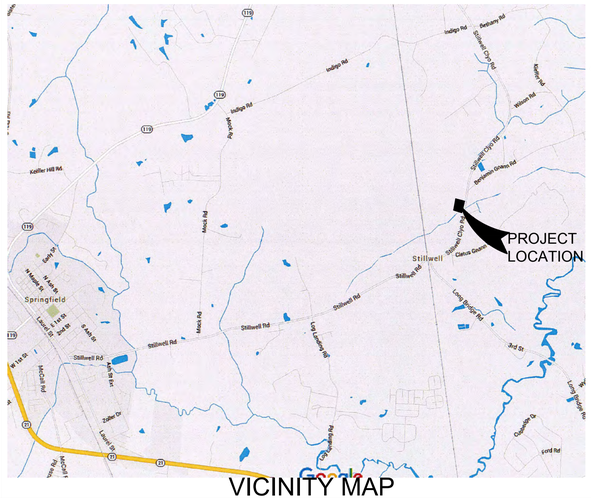
REVISIONS NUMBER	DATE
-	-
-	-
-	-
-	-

DESIGNED	ATA
DRAWN	ATA
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	N.T.S.

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER
C1.1



VICINITY MAP

SITE DATA

1. MAP AND PARCEL 444-40

2. PROPERTY ADDRESS: 411 CLETUS GNANN ROAD
SPRINGFIELD, GEORGIA 31329

3. ZONING: AR-1

4. TOTAL LAND ACREAGE = 1.35 ACRES

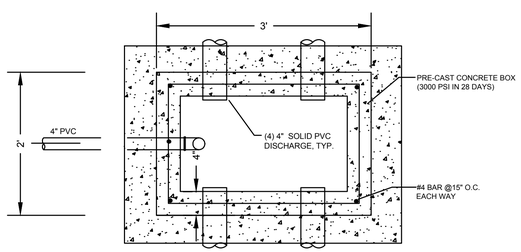
5. TOTAL BUILDING AREA = 2,500 S.F. (FIRE STATION)

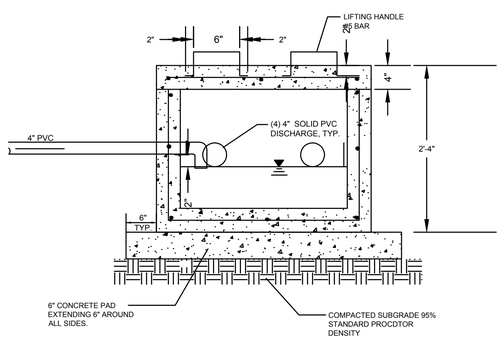
6. REQUIRED SETBACKS: FRONT YARD = 50 FEET
REAR YARD = 50 FEET
SIDE YARD = 25 FEET
SIDE YARD = 25 FEET

7. ACCORDING TO THE FLOOD INSURANCE RATE MAP, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THIS PROPERTY IS LOCATED IN ZONE "X", NOT A SPECIAL FLOOD HAZARD AREA. (COMMUNITY NUMBER 13103, PANEL 0200D. DATED: MARCH 16, 2015

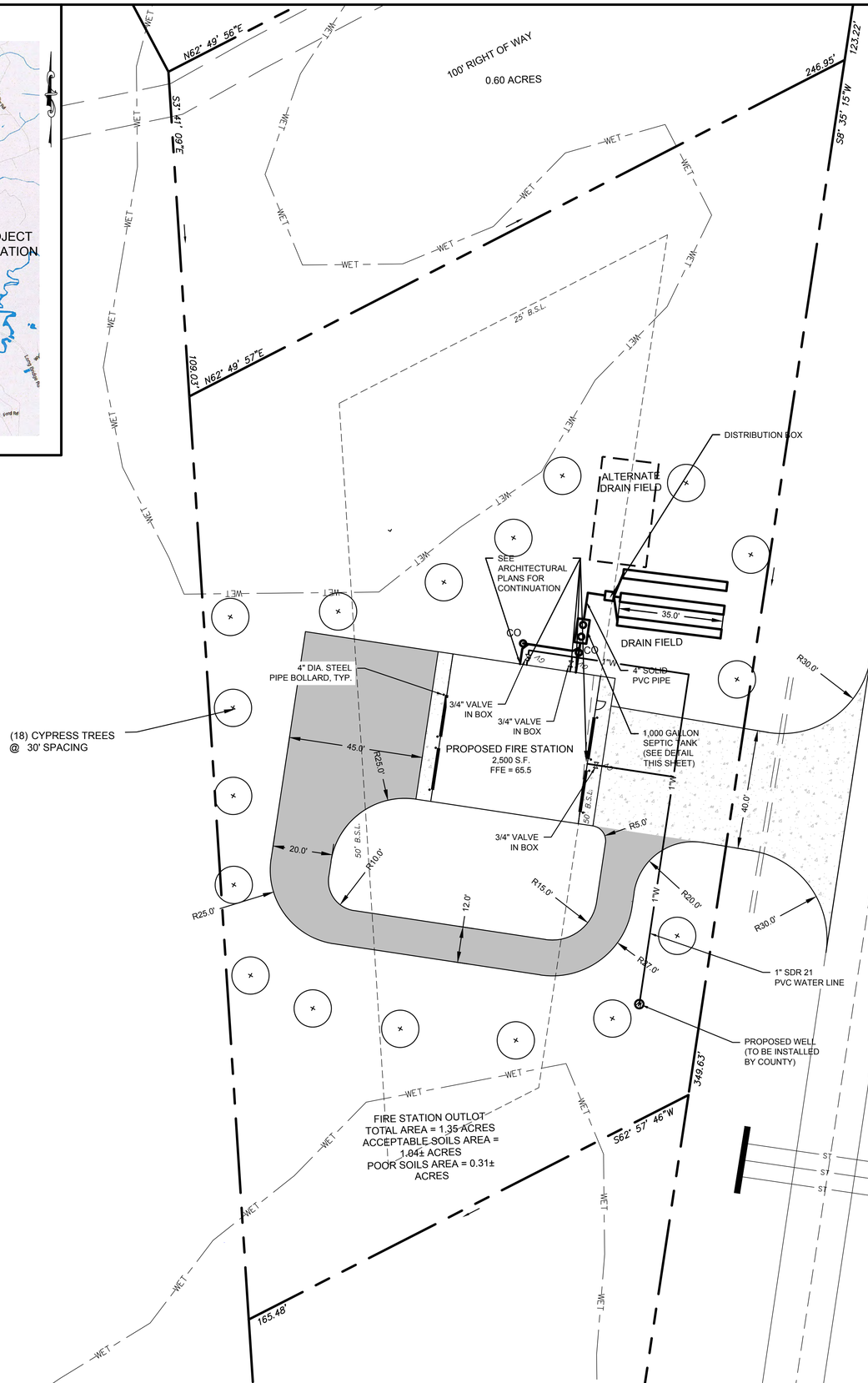
8. ELEVATIONS SHOWN ARE BASED ON NAVD 88 DATUM.

9. HORIZONTAL COORDINATES ARE BASED ON GEORGIA STATE PLANE, EAST ZONE, US FOOT, NAD 83 DATUM.



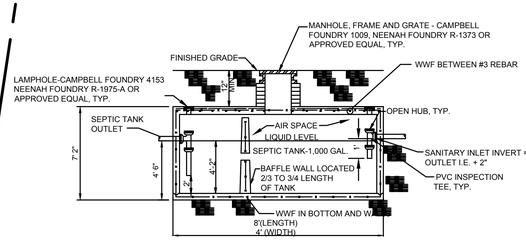


DISTRIBUTION BOX
NOT TO SCALE



STAKING NOTES:

- ALL PAVEMENT MARKINGS SHALL CONFORM TO MUTCD SPECIFICATIONS.
- DIMENSIONS AND CURVE RADII ARE GIVEN TO FACE OF CURB, WHERE CURB AND GUTTER IS SHOWN. OTHERWISE DIMENSIONS ARE GIVEN TO THE EDGE OF PAVEMENT.
- SURVEYOR IS TO NOTIFY THE ENGINEER IMMEDIATELY IF ANY ERRORS OR OMISSIONS ARE FOUND DURING STAKING.
- COORDINATES SHOWN ARE FOR EARTHWORK ONLY. DO NOT USE FOR LAYOUT PURPOSES.



1,000 GALLON SEPTIC TANK
NOT TO SCALE

NOTES:
1. SEPTIC TANK SHALL BE PLACED ON 12" OF PEA GRAVEL.
2. CONCRETE THICKNESS AND REINFORCEMENT PROVIDED BY TANK MANUFACTURER FOR STANDARD 1,000 GAL. TANK (NO TRAFFIC LOADINGS).
3. TRIPLE TANKS TO HAVE AN EQUALIZER PIPE BETWEEN THEM AND ONLY ONE INLET AND ONE OUTLET.
4. SEPTIC TANK AND DRAIN FIELD SYSTEM TO BE INSTALLED BY CONTRACTOR.

811
Know what's below.
Call before you dig.

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

GEORGIA REGISTERED
No. 22181
PROFESSIONAL
ENGINEER
ANTHONY TOSS ALLEN
21 Jan 2021

601 NORTH LAUREL STREET
SPRINGFIELD, GA 31329
PH:(912) 754-8060
FX:(912) 754-9959

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

EFFINGHAM COUNTY GEORGIA EST. 1777

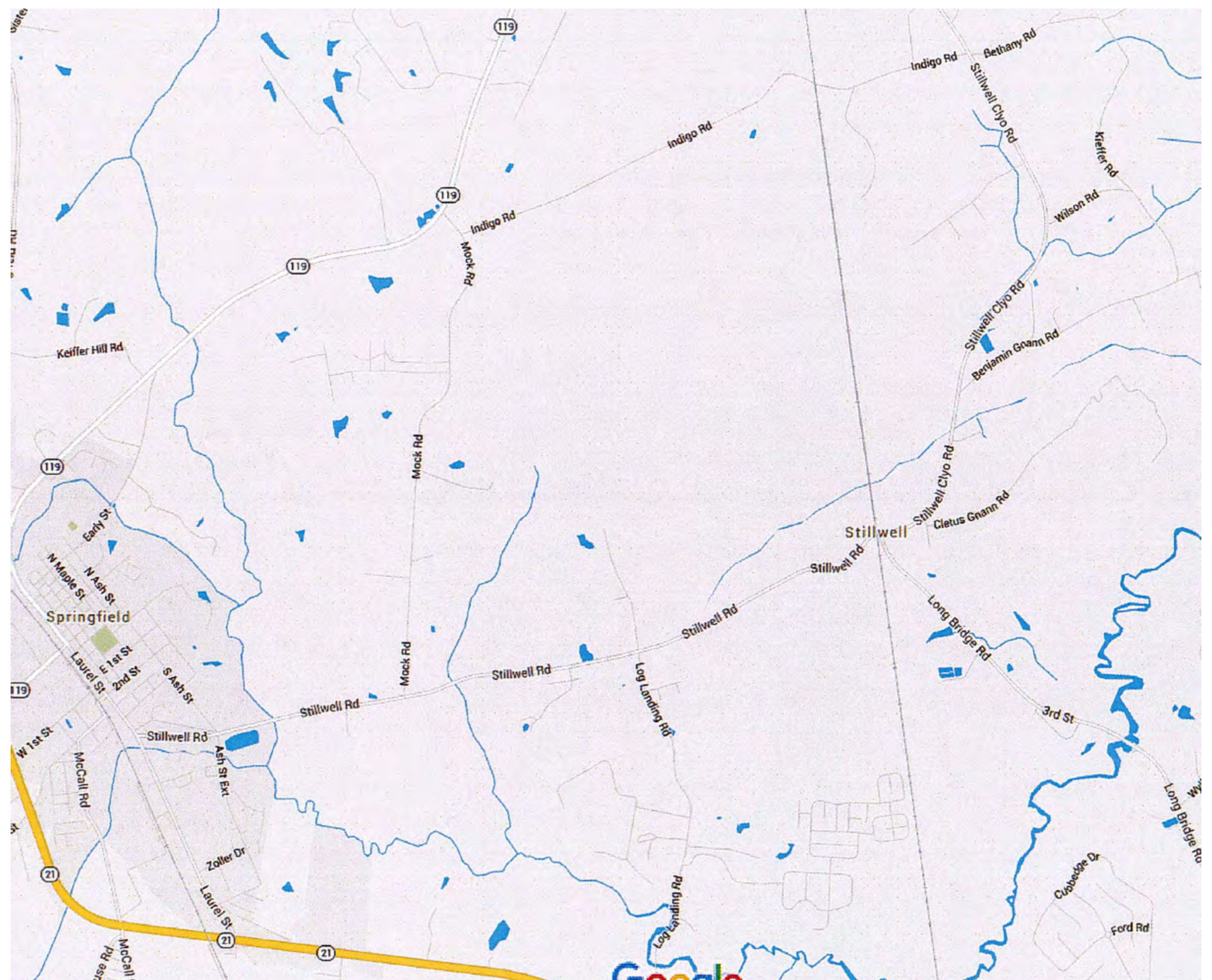
REVISIONS		
NUMBER	DATE	
-	-	
-	-	
-	-	
-	-	

DESIGNED	WAS
DRAWN	WAS
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1" = 20'

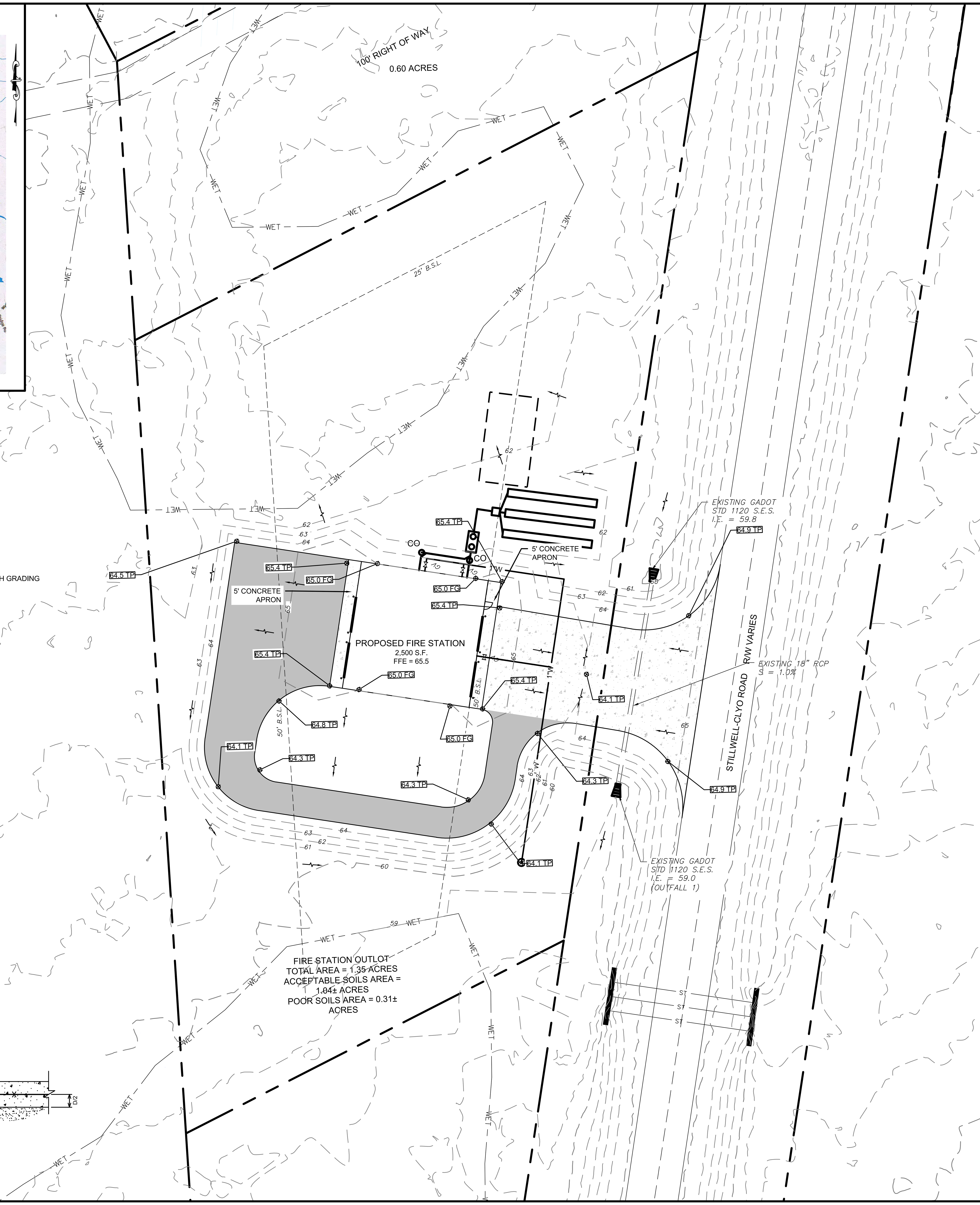
STILLWELL ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

STAKING AND UTILITY PLAN

SHEET NUMBER
C2.0



VICINITY MAP



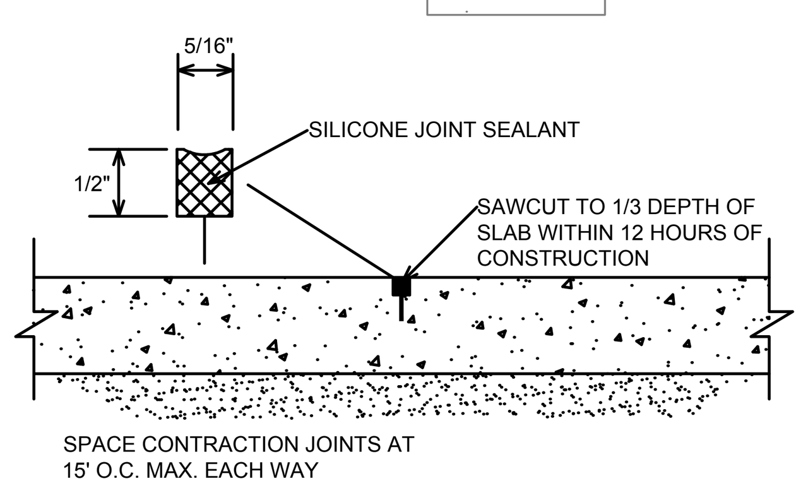
GRADING LEGEND:

TP TOP OF PAVEMENT
FG FINISHED GROUND

SURFACE LEGEND:

GRAVEL PARKING AND DRIVES

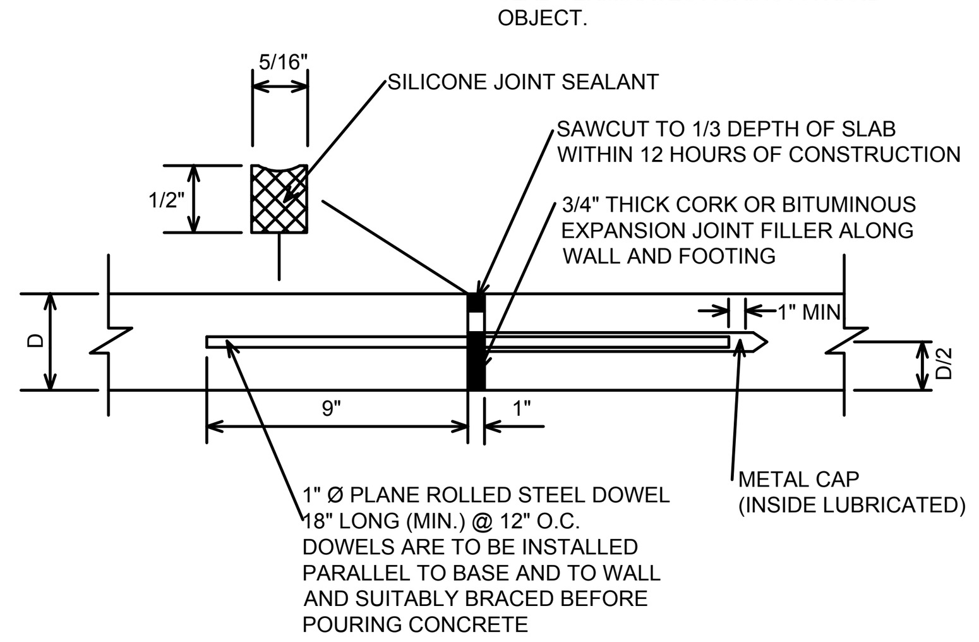
CONCRETE PAVEMENT



CONTRACTION JOINT DETAIL

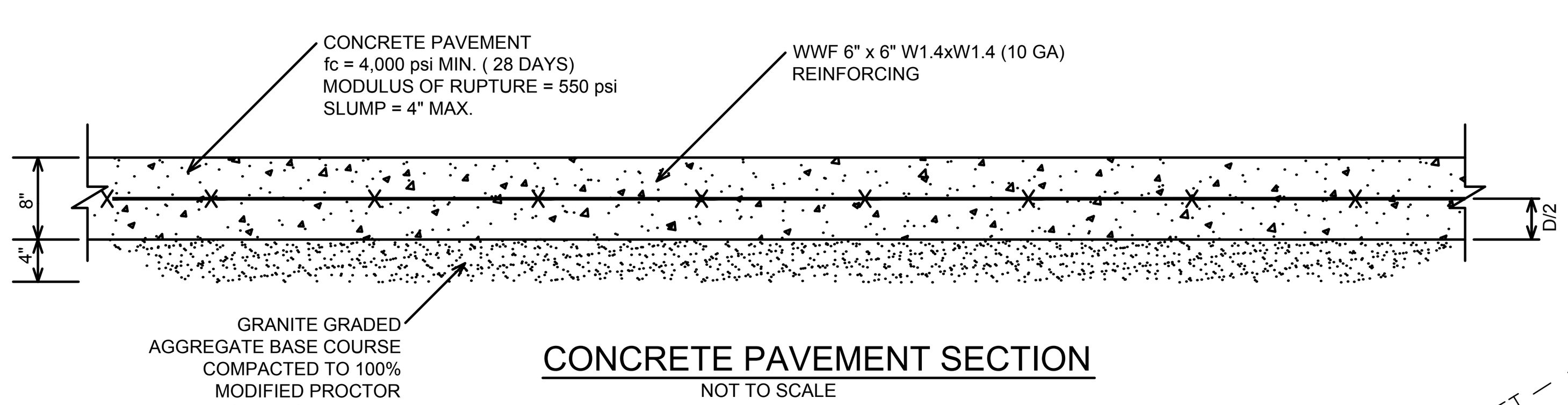
NOT TO SCALE

NOTE:
SPACE EXPANSION JOINTS AT 50' O.C. (MAX.) EACH WAY AND WHERE SLAB TERMINATES AGAINST A RIGID OBJECT.



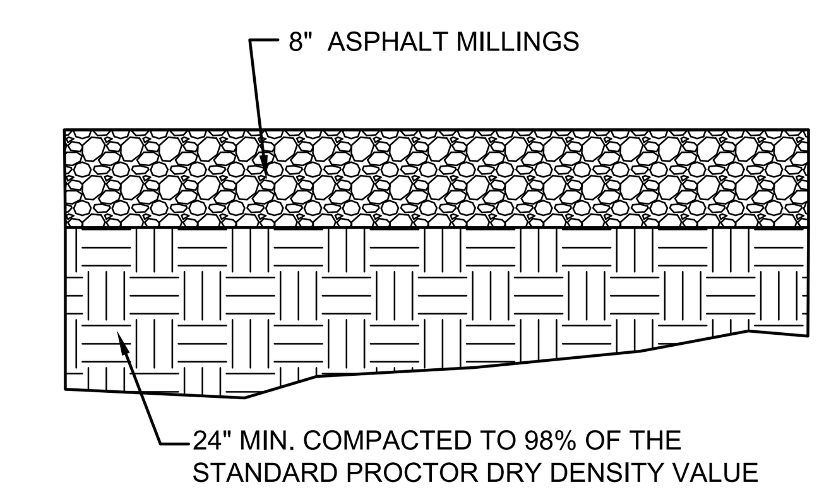
EXPANSION JOINT DETAIL

NOT TO SCALE



CONCRETE PAVEMENT SECTION

NOT TO SCALE



GRAVEL PARKING AND DRIVES

NOT TO SCALE

811
Know what's below. Call before you dig.

20' 10' 0' 20'
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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT
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SPRINGFIELD, GA 31329
PH:(912) 754-8060
FX:(912) 754-9959

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 32181 ANTHONY TOSS ALLEN 2/8/2017

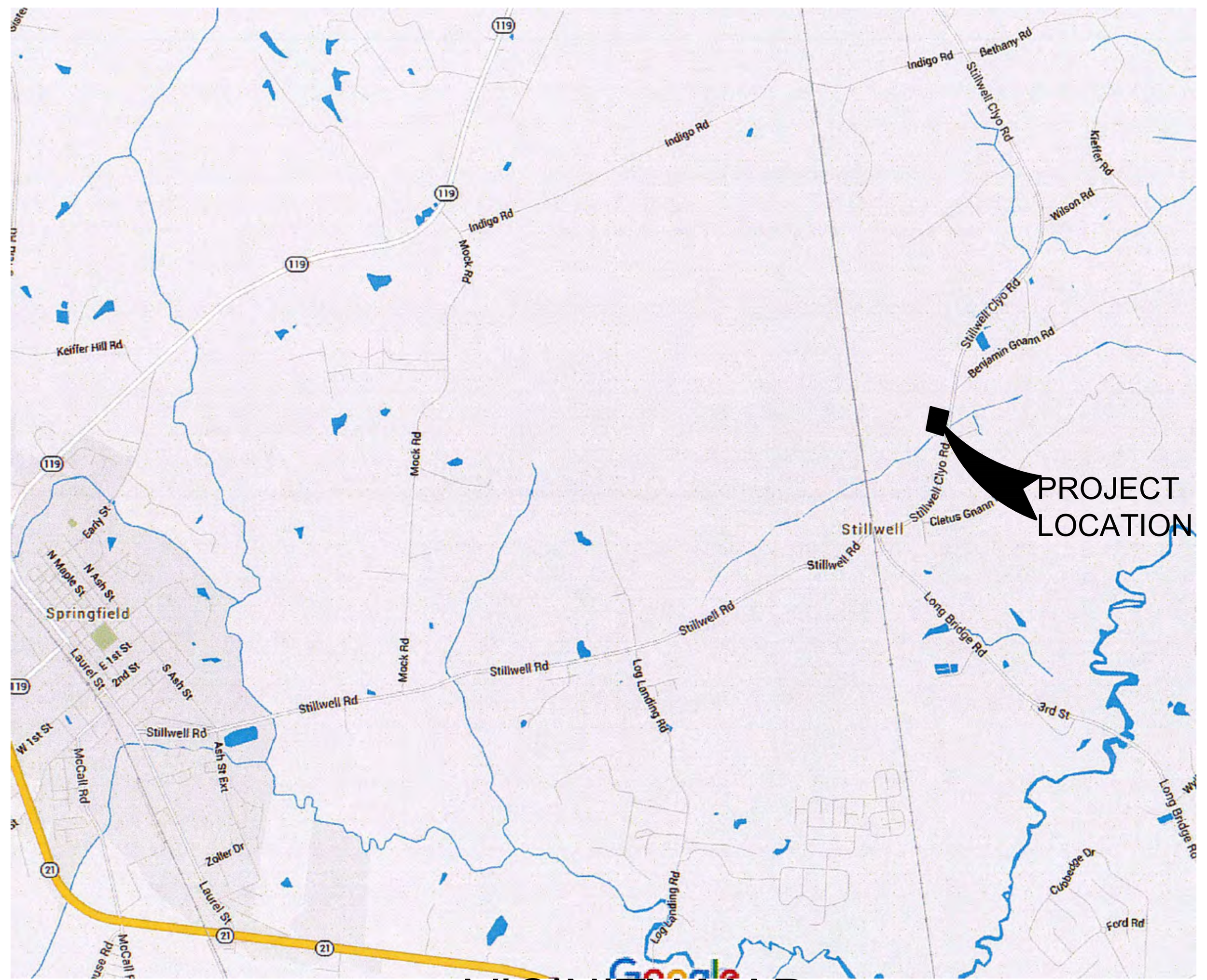
REVISIONS	
NUMBER	DATE
-	-
-	-
-	-
-	-

DESIGNED	WAS
DRAWN	WAS
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1" = 20'

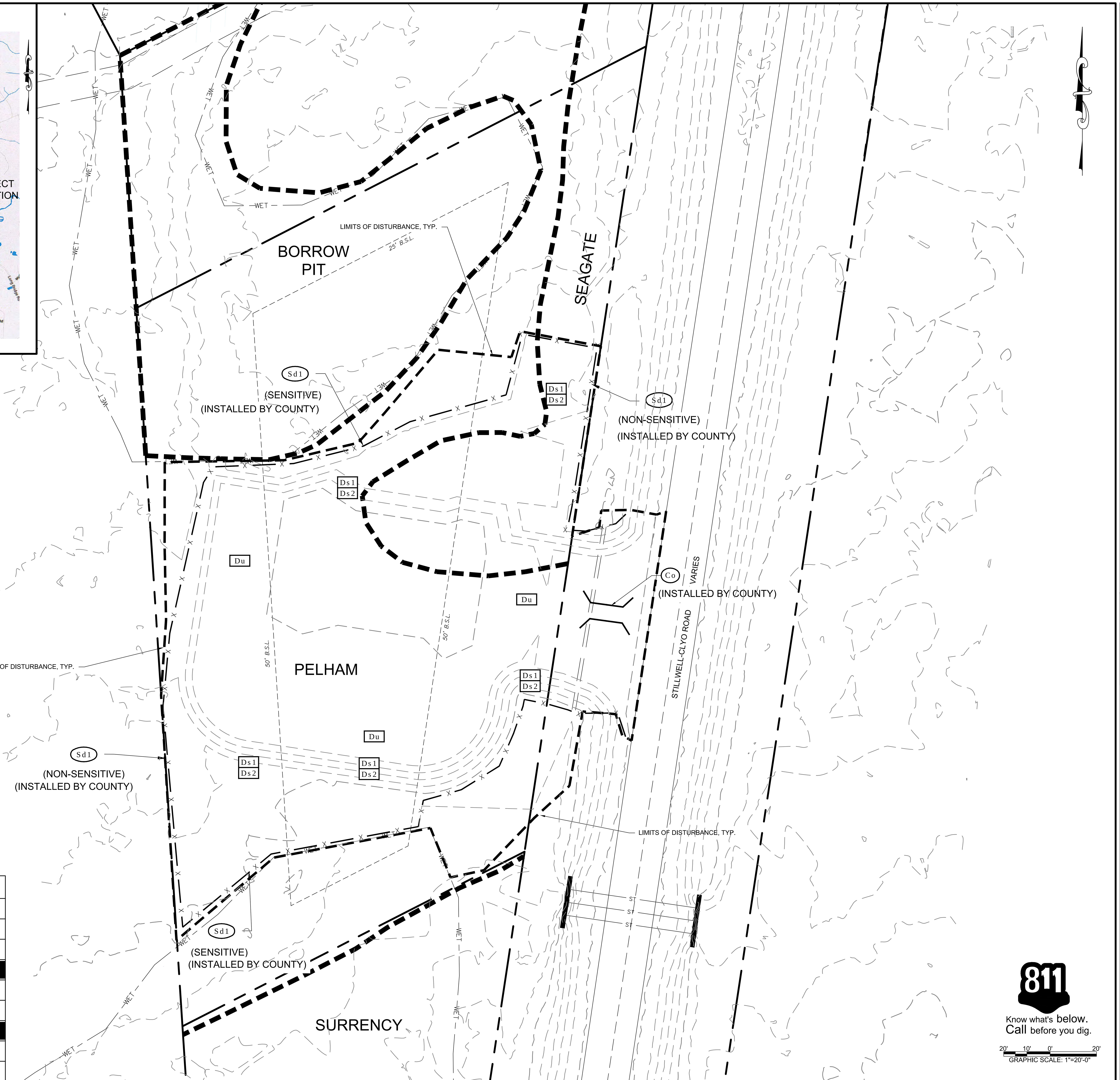
STILLWELL ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

PAVING, GRADING AND DRAINAGE PLAN

SHEET NUMBER
C3.0



VICINITY MAP



NOTES:

- ALL CLEARING SHALL CONFORM TO LOCAL CODES AND SPECIFICATIONS AND/OR SPECIFICATIONS PROVIDED WITH CONSTRUCTION DOCUMENTS.
- LIMITS OF DISTURBANCE SHALL BE AS SHOWN IN EACH PHASE.
- THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- THERE ARE NO TROUT STREAMS LOCATED ON OR WITHIN 200 FEET OF PROJECT SITE.
- THERE ARE NO NEIGHBORING AREAS THAT MIGHT BE AFFECTED FROM THIS PROPOSED PROJECT.
- SILT FENCE SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
- SILT FENCE SHALL BE REMOVED ONCE PROJECT SITE HAS REACHED FINAL STABILIZATION.
- STABILIZED CONSTRUCTION EXITS, TIRE WASH AREAS, ETC. SHALL BE PROVIDED AS NEEDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. PAVED ROADWAYS SHALL BE INSPECTED DAILY FOR THE TRACKING OF MUD, DIRT, OR ROCK. TRUCKS HAULING MATERIAL FROM THE PROJECT SITE SHALL BE COVERED.

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.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT AREA.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

TENTATIVE ACTIVITY SCHEDULE

	MONTH 1				MONTH 2				MONTH 3				MONTH 4			
CLEARING AND GRUBBING	■	■														
CONSTRUCTION EXIT	■	■	■	■	■	■	■	■	■	■	■					
SEDIMENT BARRIER	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
DISTURBED AREA STABILIZATION (WITH MULCHING)				■	■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)					■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)													■	■	■	■
DUST CONTROL	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
GRADING			■	■	■	■	■	■	■	■	■	■				

Know what's below. Call before you dig.

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

GEORGIA REGISTERED No. 32181 PROFESSIONAL ENGINEER ANTHONY TOSS ALLEN 2/8/2017

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FX:(912) 754-9959

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

EFFINGHAM COUNTY GEORGIA EST. 1777

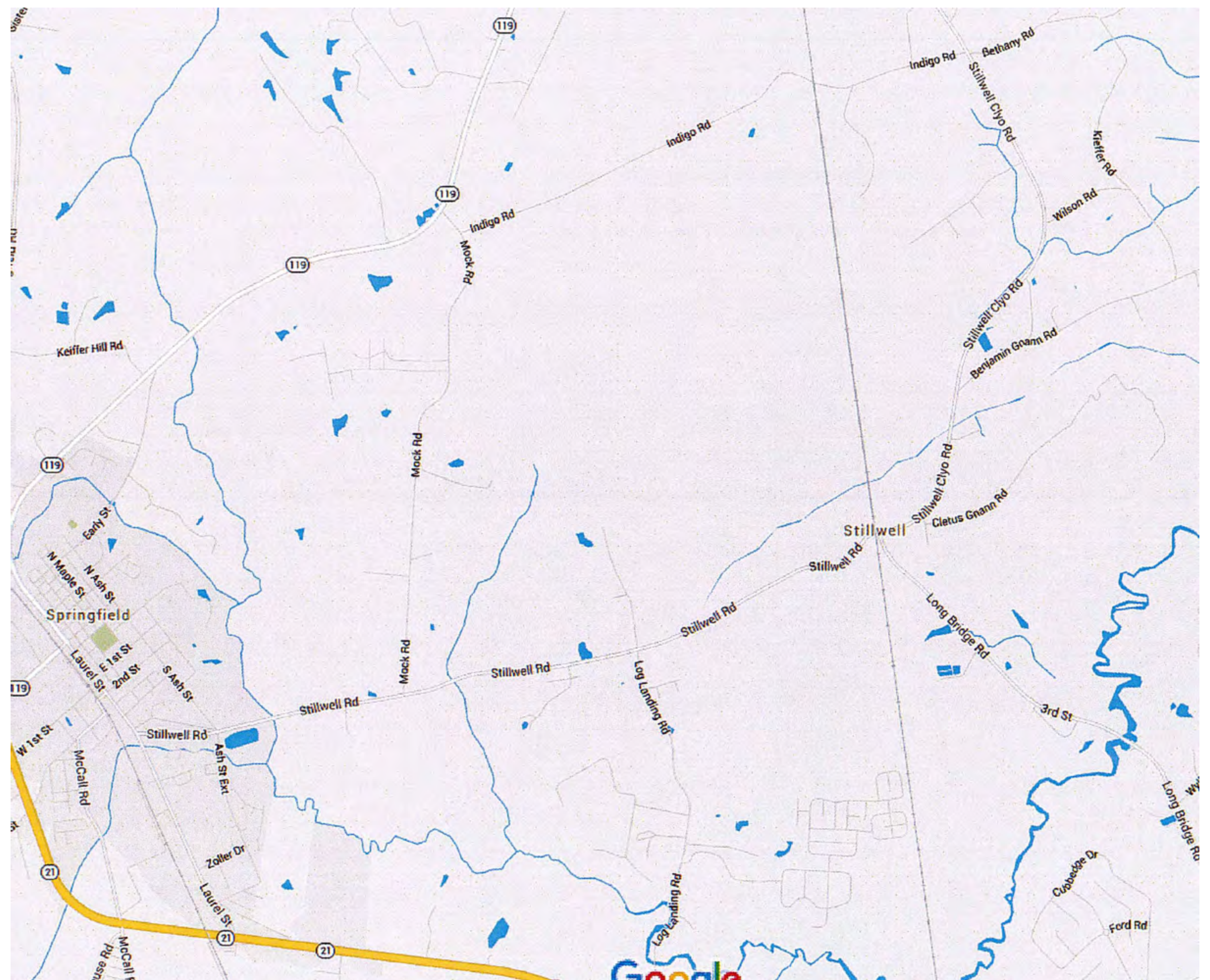
REVISIONS	
NUMBER	DATE
-	-
-	-
-	-
-	-

DESIGNED	WAS
DRAWN	WAS
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1" = 20'

STILLWELL ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

INITIAL SEDIMENTATION AND EROSION CONTROL PLAN

SHEET NUMBER
C4.0



VICINITY MAP

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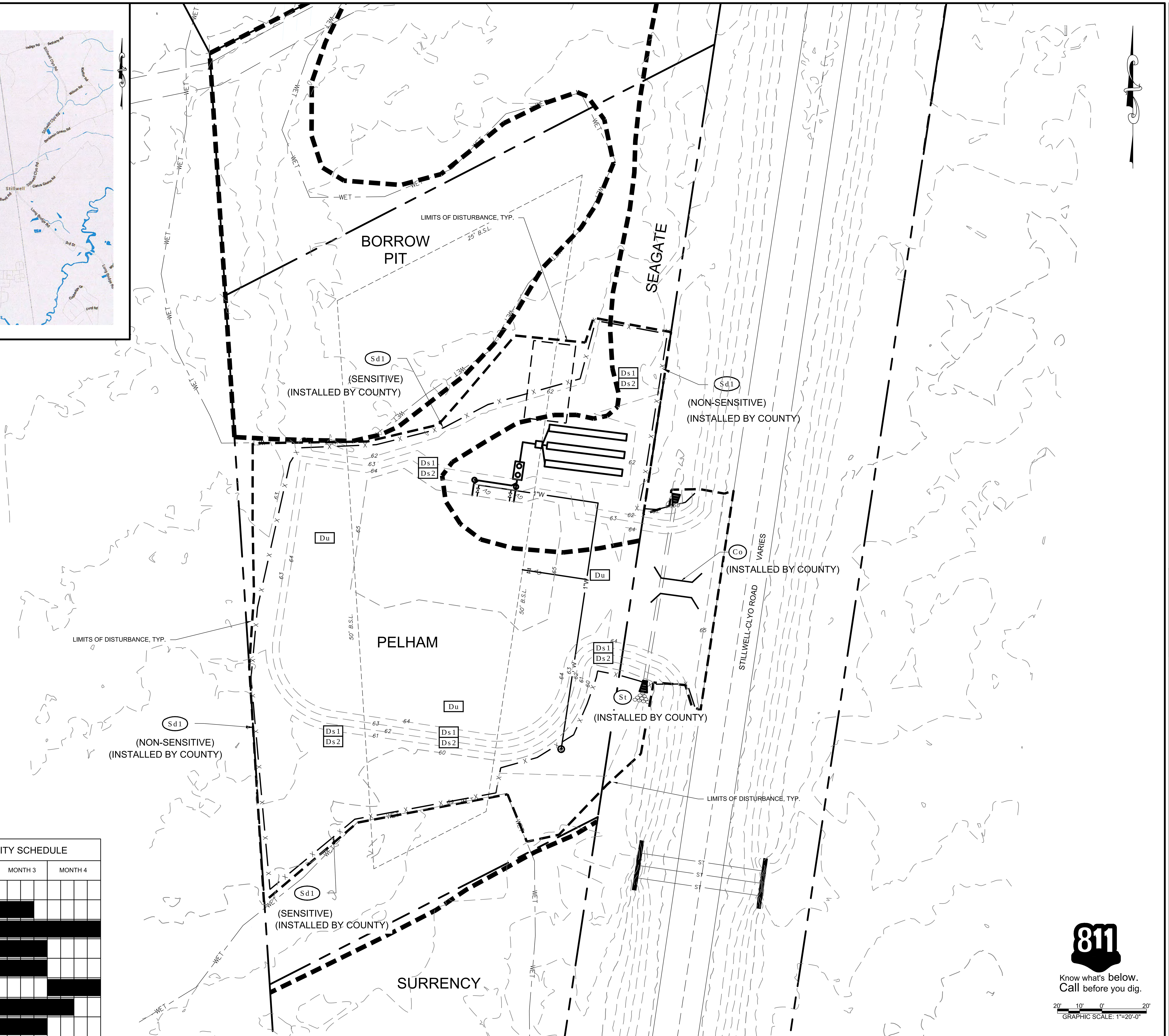
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



TENTATIVE ACTIVITY SCHEDULE

	MONTH 1				MONTH 2				MONTH 3				MONTH 4			
CLEARING AND GRUBBING	■	■														
CONSTRUCTION EXIT	■	■	■	■	■	■	■	■	■	■	■					
SEDIMENT BARRIER	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
DISTURBED AREA STABILIZATION (WITH MULCHING)				■	■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)					■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)													■	■	■	■
DUST CONTROL	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
GRADING			■	■	■	■	■	■	■	■	■	■				

Know what's below. Call before you dig.

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

GEORGIA REGISTERED No. 32181 PROFESSIONAL ENGINEER ANTHONY TOSS ALLEN
2/8/2017

EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
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REVISIONS	
NUMBER	DATE
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-	-
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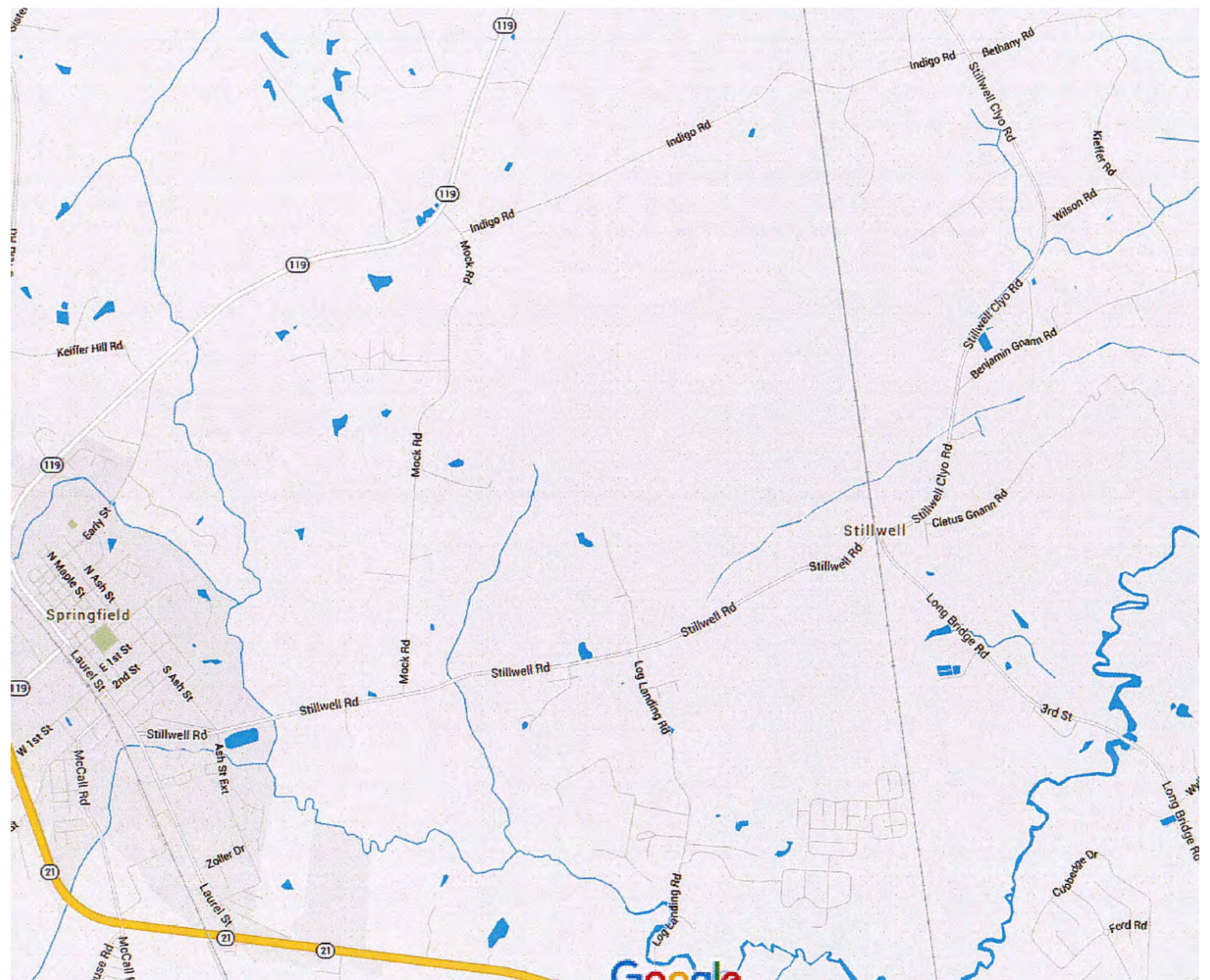
DESIGNED	WAS
DRAWN	WAS
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1" = 20'

STILLWELL ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

INT. SEDIMENTATION AND EROSION CONTROL PLAN

SHEET NUMBER
C4.1



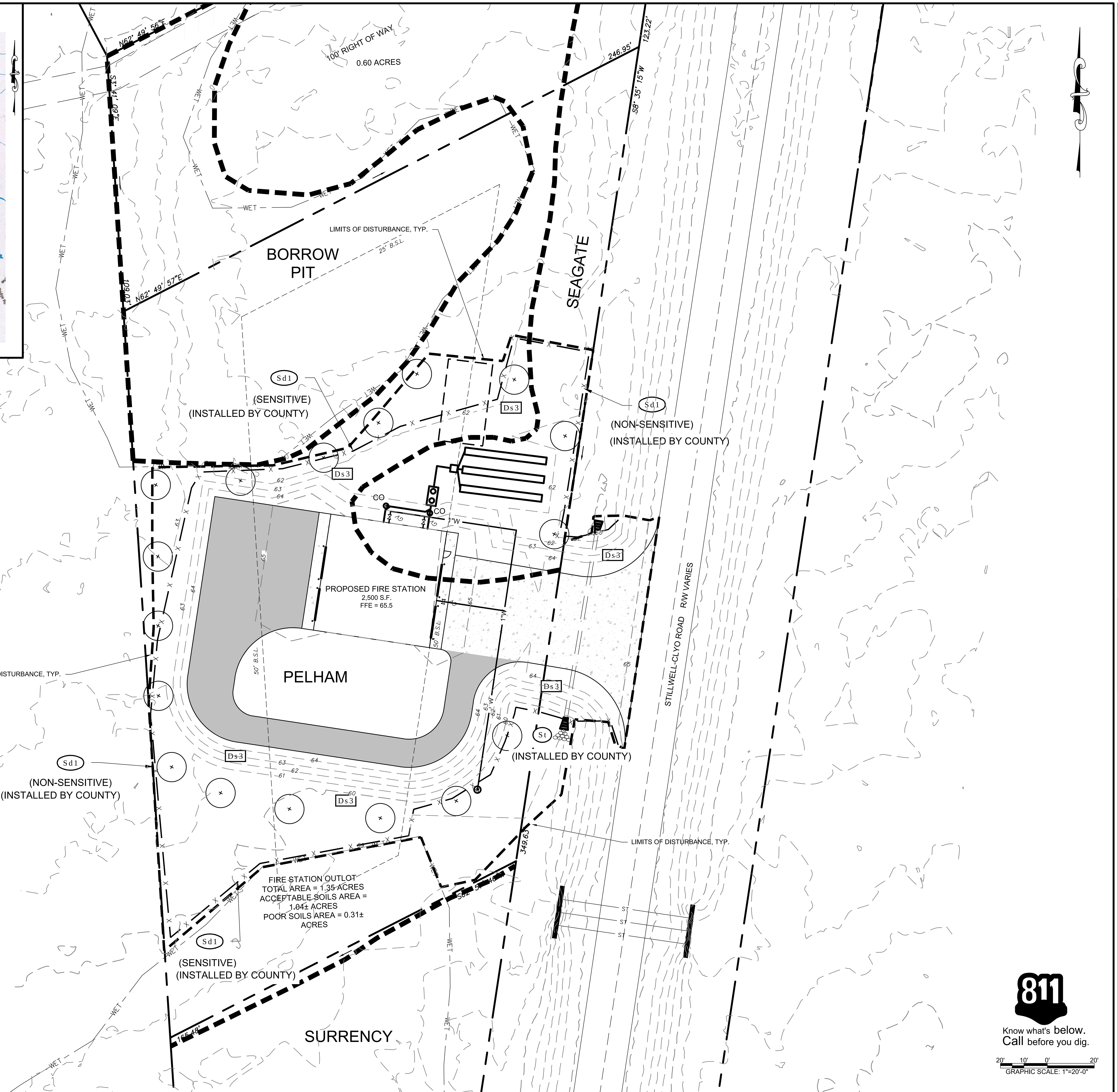
VICINITY MAP

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.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT AREA.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GRATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

BMP'S TO BE REMOVED UPON ACHIEVEMENT OF FINAL STABILIZATION.



TENTATIVE ACTIVITY SCHEDULE

	MONTH 1				MONTH 2				MONTH 3				MONTH 4			
CLEARING AND GRUBBING	■	■														
CONSTRUCTION EXIT	■	■	■	■	■	■	■	■	■	■	■					
SEDIMENT BARRIER	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
DISTURBED AREA STABILIZATION (WITH MULCHING)				■	■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)					■	■	■	■	■	■	■	■				
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)													■	■	■	■
DUST CONTROL	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
GRADING			■	■	■	■	■	■	■	■	■	■				

811
Know what's below.
Call before you dig.

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

GEORGIA REGISTERED No. 32181 PROFESSIONAL ENGINEER ANTHONY TOSS ALLEN 2/8/2017

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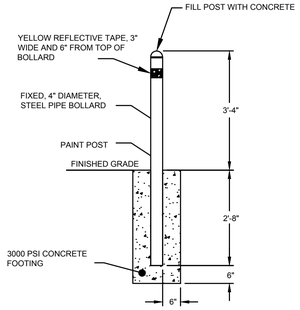
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1" = 20'

STILLWELL ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

FINAL SEDIMENTATION AND EROSION CONTROL PLAN

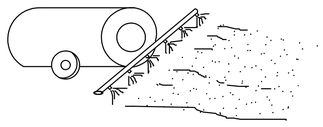
SHEET NUMBER
C4.2



STEEL BOLLARD

NOT TO SCALE

CONTROLLING DUST AT THE SITE



*TEMPORARY METHODS:
- -MULCHES
- -TEMPORARY VEGETATIVE COVER
- -SPRAY ON ADHESIVES
- -TELLAGE
- -IRRIGATION
- -BARRIERS
- -CALCIUM CHLORIDE

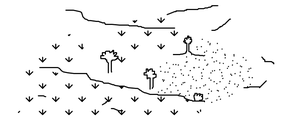
*PERMANENT METHODS
- -PERMANENT VEGETATION
- -TOPSOILING
- -STONE COVER

*CHEMICAL CONTROL

ADHESIVE ADHESIVE	WATER DELUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIOIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

Du DUST CONTROL ON DISTURBED AREAS

ESTABLISHIING A PERMANENT VEGETATIVE COVER AS A DISTURBED AREA.
- -TO STABILIZE THE SOIL
- -TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS
- -TO IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES



*APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS"

INCLUDING:
- -CUT OR FILL SLOPES
- -EARTH SPILLWAYS
- -BORROW AREAS
- -CHANNEL BANKS
- -BERMS
- -ROADSIDES
- -SPOILS AREAS
- -GULLIED LANDS

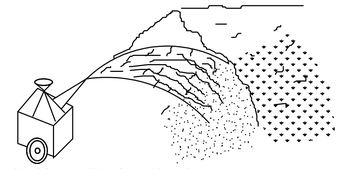
*GRADING AND SHAPING REQUIRED WHERE FEASIBLE PRACTICAL
*SEEDED PREPARATION
- -NOT REQUIRED IF USING HYDRAULIC SEEDING AND FERTILIZING
- -WHEN REQUIRED:

SLOPE	SEEDBED
3:1 OR FLATTER	> 4" DEEP
2:1 TO 3:1	1" TO 4" DEEP
2:1 OR STEEPER	DEPRESSION EVERY 6"-8" WITH HAND TOOL

*HAVE SOIL ANALYZED FOR LIME AND FERTILIZER RATE
*MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROADBANKS
*ANCHOR MULCH IMMEDIATELY

Ds3 DISTURED AREA STABILIZATION
(With Permanent Vegetation)

NOT TO SCALE



* 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETAION

* SITE PREPARATION
- -GRADING AND SHAPING
- -SEEDBED PREPARATION
- -APPLY LIME AND FERTILIZER
- -PLANT SEEDING, SELECT SPECIES BY SEASON AND REGION
- -APPLY MULCHING MATERIAL IF NEEDED
- -IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

*PLANTING DATES DEPEND ON SPECIES AND REGION (MOUNTAIN, PIEDMONT OR COASTAL)

ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED OR DENUDED AREAS.

SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES	RATE PER 1,0000 SQ. FT.	RATE PER ACRESñ	PLANTING DATESò MTS-L'STONE	PIEDMONT	COASTAL
RYEGRASS	0.9 POUNDS	40-50 LBS.	8/1-12/1	8/15-1/1	8/15-3/1
ANNUAL LESPEDEZA	0.9 POUND	40 LBS.	3/1-4/1	3/1-4/1	2/1-3/1
WEEPING LOVEGRASS	0.1 POUNDS	4-6 LBS.	3/15-8/1	3/1-8/15	2/15-8/15

* ALL SEEDING NUMBERS ARE ALONE FOR MIXTURE NUMBER SEE MANUAL FOR EROSION AND SEDIMENT TABLE 6-24.1 PAGES 6-134 - 6-136.

ñ UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
ò SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

Ds2 DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDING)

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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

EFFINGHAM COUNTY GEORGIA EST. 1777

REVISIONS	
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DESIGNED	ATA
DRAWN	ATA
CHECKED	ATA
DT'ATE	FEB 2017
JOB NO.	16-001
SCALE	N.T.S.

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER

C5.0

STRUCTURAL NOTES

BASIS OF DESIGN:

A. GRAVITY LOADS
1. ROOF DEAD LOADS: BY MBM
2. ROOF LIVE LOADS: 20 PSF (REDUCIBLE)

B. SNOW LOADS (REFERENCE: ASCE 7-10)

GROUND SNOW LOAD, Pg =	5 PSF		(FIGURE 7-1)
Ce =	0.90	(TERRAIN CATEGORY C)	(TABLE 7-2)
Ct =	1.0		(TABLE 7-3)
I =	1.1	(BUILDING CAT. IV)	(TABLE 7-4)

C. WIND LOADS (REFERENCE: ASCE 7-10)

BASIC WIND SPEED (3 SECOND GUST), V = 141 MPH		(FIGURE 26.5-1C)
RISK CATEGORY = IV		(TABLE 1.5-1)
EXPOSURE CATEGORY = C		(SECTION 26.7)
INTERNAL PRESSURE COEFFICIENTS:	+0.18,-0.18	(TABLE 26.11-1)
(ENCLOSED BUILDING TYPE)		

IN ACCORDANCE WITH ASCE 7-10, THIS STRUCTURE IS LOCATED IN A WIND-BORNE DEBRIS REGION. ALL GLAZING SHALL COMPLY WITH THE PROVISION REQUIRED BY SECTION 26.10.3.2 OF ASCE 7-10.

D. SEISMIC LOADS (REFERENCE: ASCE 7-10)

RISK CATEGORY IV	(TABLE 1.5-1)
0.2 SEC SPECTRAL RESPONSE ACCELERATION: Ss = .305	
1.0 SEC SPECTRAL RESPONSE ACCELERATION: S1 = .119	
Sds = 0.316 Sd1 = 0.184	
SITE CLASSIFICATION = D	(SECTION 11.4)
BASIC SEISMIC-FORCE-RESISTING SYSTEM	
LONGITUDINAL: RIGID FRAMES	
TRANSVERSE: X-BRACING	
SEISMIC DESIGN CATEGORY = D	(SECTION 11.6)
SEISMIC IMPORTANCE FACTOR = 1.50	(TABLE 1.5-1)
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE	(SECTION 12.8)

GENERAL:

1. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
2. WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION. IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
3. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE OWNER IN WRITING PRIOR TO SUBMITTING BIDS.
4. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
5. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
6. THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
8. CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
9. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF BASED ON THE RECOMMENDATIONS INCLUDED IN GEOTECHNICAL REPORT PREPARED BY TERRACON, REPORT NO. ES165084. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
2. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 50' O.C. IN SLAB TURNDOWNS TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED.
3. ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS. UNLESS REQUIRED OTHERWISE BY SPECIFICATIONS, PROVIDE ONE COMPACTION TEST AT EACH COLUMN FOOTING EXCAVATION AND EVERY 50 FEET ON CENTER IN SLAB TURNDOWNS.
4. ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE.
5. ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
6. ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.

CONCRETE:

1. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES OVER.
2. UNLESS SPECIFIED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:
   - A. ALL FOOTINGS AND OTHER CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   - B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
     - #5 BAR AND SMALLER: 1 ½"
     - #6 BAR AND LARGER: 2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     1. SLABS, WALLS, JOISTS:
        - #11 BAR AND SMALLER: 3/4"
        - #14 AND #18 BARS: 1 ½"
     2. BEAMS, COLUMNS:
        - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 ½"
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
4. PROVIDE DOWELS OF THE SAME SIZE AND NUMBER AS THE VERTICAL WALL AND COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED ON THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCING MARKED CONTINUOUS MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
7. PIPES OR DUCTS SHALL NOT EXCEED 1/3 SLAB TO WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR OTHER INSERTS REQUIRED TO BE ENCASED IN CONCRETE AND FOR EXACT LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
9. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
10. DEFECTIVE AREAS IN CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.10" SHALL BE REPAIRED BY THE CONTRACTOR. THE EXTENT OF THE DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
11. NO REINFORCING SHALL BE CUT IN FIELD. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENING AS DETAILED.
12. HOOKS IN REINFORCING ARE IN ADDITION TO LINKS SHOWN.
13. UNLESS NOTED OTHERWISE, DETAILING AND FABRICATION OF REINFORCING STEEL SHALL FOLLOW ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES" (ACI 315).
14. REINFORCING SHALL BE SUPPORTED IN FORMS AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS", UNLESS NOTED OTHERWISE.

PRE-ENGINEERED METAL BUILDING:

1. METAL BUILDING MANUFACTURER SHALL FURNISH ALL ITEMS SPECIFIED OR SHOWN IN THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, FRAMES, BASE PLATES, WIDE FLANGE GIRTS, PURLINS, CABLES, RODS, ANGLE FRAMES, ETC., NECESSARY TO COMPLETE THE STEEL PORTION OF THE STRUCTURE UNLESS SPECIFICALLY DETAILED OTHERWISE.
2. BUILDING SHALL BE DESIGNED FOR ALL GRAVITY AND LATERAL (WIND AND SEISMIC) BUILDING LOADS AS INDICATED IN THE BASIS OF DESIGN HEREIN EXCEPT THAT ROOF DEAD LOADS SHALL BE COMPUTED AS BUILDING COMPONENT PLUS 8 PSF AUXILAIRY LOAD.
3. BRACING SYSTEMS INCLUDING SAG RODS, STRUTS, ETC., SHALL BE THE STANDARD OF THE BUILDING MANUFACTURER AND SHALL BE INCLUDED IN THE SUBMITTED SHOP DRAWINGS. MANUFACTURER SHALL COORDINATE LOCATION AND TYPES OF ALL BRACING NECESSARY TO ACCOMMODATE ALL ARCHITECTURAL REQUIREMENTS.
4. ROOF PURLINS SHALL BE SPACED A MAXIMUM OF 5'-0" O.C. CALCULATIONS FOR FRAME DEFLECTIONS SHALL BE BASED ON THE STIFFNESS OF PRE-ENGINEERED METAL BUILDING STRUCTURE ONLY AND SHALL NOT INCLUDE STIFFNESS CONTRIBUTIONS FROM ADJACENT STRUCTURES.
5. CALCULATED DRIFTS DUE TO LATERAL LOADS INDUCED ON THE STRUCTURE SHALL NOT EXCEED THE FOLLOWING:
   - DRIFT DUE TO WIND: H/240
   - DRIFT DUE TO SEISMIC: H/200
6. THE SIZE, NUMBER, AND PLACEMENT PATTERN OF ALL ANCHOR RODS SHALL BE DETERMINED BY PRE-ENGINEERED BUILDING MANUFACTURER. ANCHOR ROD SIZES AND EMBEDMENTS SHALL BE AS INDICATED ON THE DRAWINGS.
7. ALL PRE-ENGINEERED METAL BUILDING COLUMNS SHALL BE DESIGNED BASED ON A "PINNED-BASED" SUPPORT CONDITION. METAL BUILDING STRUCTURE SHALL NOT INDUCE ANY OVERTURNING OR BENDING MOMENT FORCES INTO THE FOUNDATION OTHER THAN GRAVITY LOADS DUE TO DEAD, LIVE AND WIND UPLIFTS.
8. CONTRACTOR SHALL PROVIDE THE METAL BUILDING MANUFACTURER ALL LOCATIONS AND WEIGHTS OF ROOF SUPPORTED MECHANICAL EQUIPMENT. LOADS SHALL BE SHOWN IN THE METAL BUILDING SHOP DRAWING CALCULATIONS.
9. ALL CALCULATIONS ARE TO BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.

SPECIAL STRUCTURAL INSPECTIONS:

A. SPECIAL INSPECTIONS
   1. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2012 BUILDING CODE.
   2. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OF RECORD (EOR) WHICH MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2012 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   3. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
   4. THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE CONTRACTOR.

B. REPORTS
   1. SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
   2. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
   3. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.

C. REQUIRED SPECIAL INSPECTIONS

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED YES	NO	REMARKS
1704.2.5	INSPECTION OF FABRICATORS	X		1
1705.2	STEEL CONSTRUCTION	X		2
1705.3	CONCRETE CONSTRUCTION	X		3
1705.4	MASONRY CONSTRUCTION		X	
1705.5	WOOD CONSTRUCTION		X	
1705.6	SOILS	X		4
1705.7	DRIVEN DEEP FOUNDATION		X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS		X	
1705.9	HELICAL PILE FOUNDATIONS		X	
1705.10	WIND RESISTANCE	X		
1705.11	SEISMIC RESISTANCE	X		
1705.12	TESTING AND QUALIFICATIONS FOR SEISMIC RESISTANCE	X		
1705.13	SPRAYED FIRE-RESISTANT MATERIALS		X	
1705.14	MASTIC AND INTUMESCENT COATINGS		X	
1705.15	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)		X	

REMARKS:
1. WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
2. STEEL SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2012 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.2,QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 AND TABLE 1705.2.2.
3. CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2012 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
4. SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.

D. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.11.
F. STRUCTURAL TESTING FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.12.

STRUCTURAL LEGEND

SYMBOLS

- FOOTING
- UNREINFORCED CONCRETE MASONRY
- REINFORCED CONCRETE MASONRY
- CONCRETE
- BOND BEAM
- P_2, P_3 REINF. MASONRY PIERS
- DROP SLAB TO RECEIVE FLOOR FINISH
- THICKENED SLAB
- FJ FLOOR JOINT
- WFJ WALL FLOOR JOINT
- SJ SAWN JOINT
- TJ 1" DEEP TOOLED JOINT
- CONCRETE SLAB TURNDOWN
- S 2" SLOPE (DIRECTION AND DROP)
- VERTICAL STEP IN WALL FOOTING
- T.O.S. 12'-6" TOP OF STEEL ELEVATION
- (96.50) TOP OF FOOTING ELEVATION
- R ADD #4x4'-0" IN CENTERLINE OF SLAB
- HSB HIGH STRENGTH BOLT
- S JOIST BOTTOM CHORD STRUT
- ROOF DRAIN
- FRAME AROUND ROOF DECK OPENING
- BEAM TO COLUMN MOMENT CONNECTION

ABBREVIATIONS

W/	WITH
DBL.	DOUBLE
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL	CLEARANCE
FD	FLOOR DRAIN
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HAND
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

STRUCTURAL SHEET INDEX

REVISIONS: no. | zone | date | description

GEORGIA REGISTERED PROFESSIONAL ENGINEER W. HUNTER SAUSSY, III NO. 19126

Not Valid Unless Signed

STILLWELL-CLYO ROAD FIRE STATION
STILLWELL GEORGIA
EFFINGHAM COUNTY

STRUCTURAL NOTES

SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882

PLOT-DATE: S1-0.dwg 5/21/2014

job no: 16055
scale: AS SHOWN
date: 08/01/16
designed: WHS III
drawn: MJA
checked: WHS III

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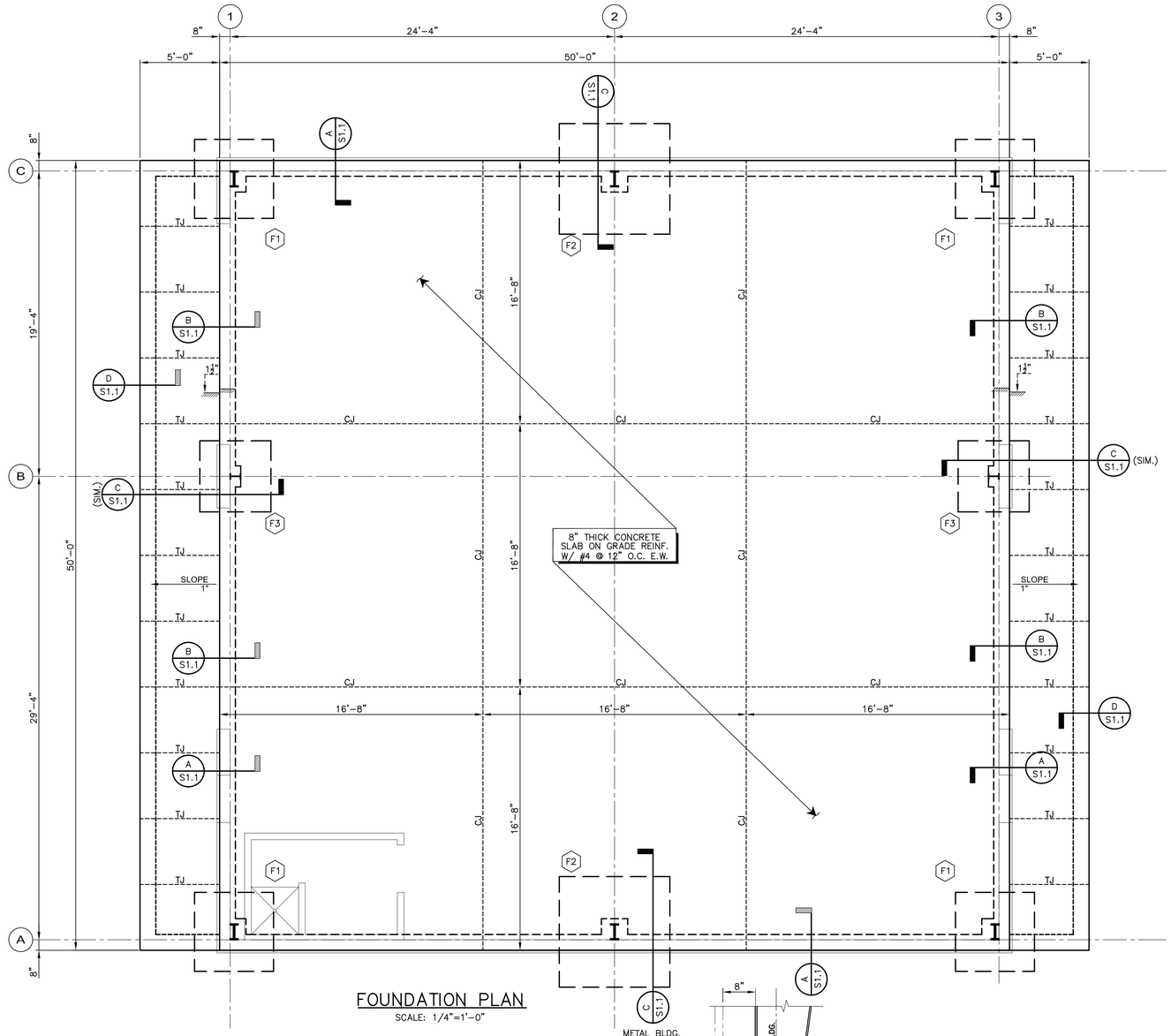
1 of 2



FOUNDATION PLAN

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

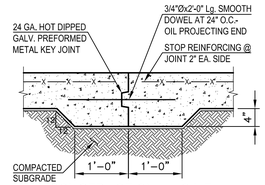
MATERIAL SPECIFICATIONS:

STRUCTURAL STEEL:

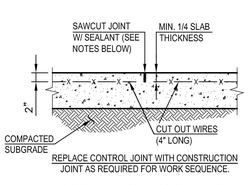
1. ANCHOR RODS:	ASTM F1554, GRADE 36

CONCRETE

1. FOUNDATIONS:	3000 PSI 28 DAY COMPRESSIVE STRENGTH (NON-AIR ENTRAINED)
2. SLABS:	4000 PSI 28 DAY COMPRESSIVE STRENGTH (AIR-ENTRAINED)
3. REINFORCING BARS:	ASTM A615, GRADE 60, DEFORMED
4. WELDED WIRE MESH:	ASTM A185



CONSTRUCTION JOINT



TYPICAL CONTROL JOINT

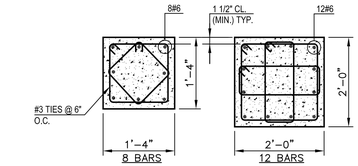
(INDICATED AS "CJ" ON PLAN)

SLAB JOINT DETAILS

CONTROL JOINT CONSTRUCTION:

CONTROL JOINTS (INDICATED AS CJ), SHALL BE CONSTRUCTED AS FOLLOWS:

1. CONTROL JOINTS SHALL ONLY OCCUR AT DESIGNATED LOCATIONS WHERE SHOWN ON FOUNDATION PLAN.
2. JOINT DEPTHS SHALL BE A MINIMUM OF 1/4 OF THE SLAB DEPTH BUT NOT LESS THAN 1".
3. JOINTS SHALL BE SAWN AS SOON AS CONCRETE IS HARD ENOUGH TO SUPPORT THE WEIGHT OF THE EQUIPMENT TO BE USED WITHOUT RAVELING THE CONCRETE SURFACE BUT NO LATER THAN 12 HOURS AFTER POURING OF SLAB.
4. A CONSTRUCTION JOINT, FORMED USING A PREFORMED METAL KEY JOINT, MAY BE SUBSTITUTED FOR A SAWN JOINT AT THE CONTRACTOR'S OPTION.
5. SAWN JOINTS SHALL BE FILLED WITH INDUSTRIAL GRADE TRAFFIC SEALANT. SUBMIT SPEC. SHEET FOR REVIEW BY ENGINEER PRIOR TO USE.



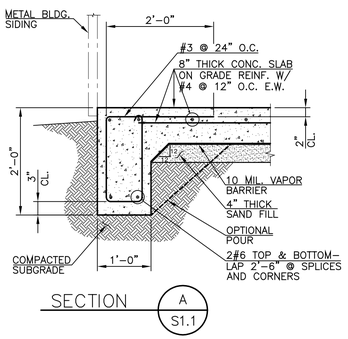
CONCRETE PIER DETAIL

NOTES:

1. TERMINATE VERTICAL BARS IN FOOTING W/ 90° HOOK (12) BAR DIAMETERS (MIN).
2. ALTERNATE LOCATION OF 90° AND 135° BENDS.
3. ALL PIERS TO BE BOARD FORMED.
4. TOP OF VERTICAL DOWELS SHALL EXTEND TO 1 1/2" FROM TOP OF PIER.

FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINF. E.W.	CONC. PIER	HEADED ANCHOR RODS
F1	5'-0"x5'-0"	2'-0"	6#6 TOP & BOT.	CP24	(4)3/4"Øx22"
F2	7'-0"x7'-0"	3'-0"	8#6 TOP & BOT.	CP24	(4)3/4"Øx22"
F3	4'-6"x4'-6"	1'-6"	6#4 TOP & BOT.	CP16	(4)3/4"Øx18"



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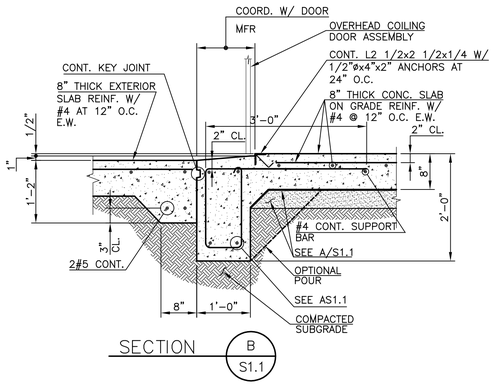

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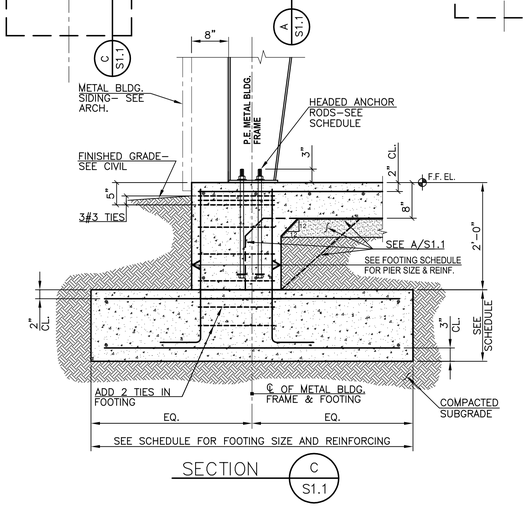

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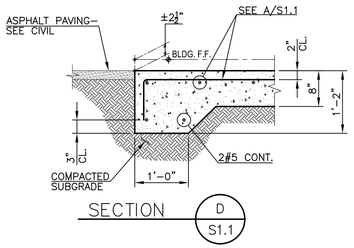

SECTION D S1.1

REVISIONS:

no.	zone	date	description

GEORGIA REGISTERED NO. 29126 PROFESSIONAL ENGINEER W. HUNTER SAUSSY, III

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STILLWELL-CLYO ROAD FIRE STATION

STILLWELL GEORGIA

EFFINGHAM COUNTY

FOUNDATION PLAN / SECTIONS

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P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882

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date:	08/01/16
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drawn:	MJA
checked:	WHS III

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S1.1

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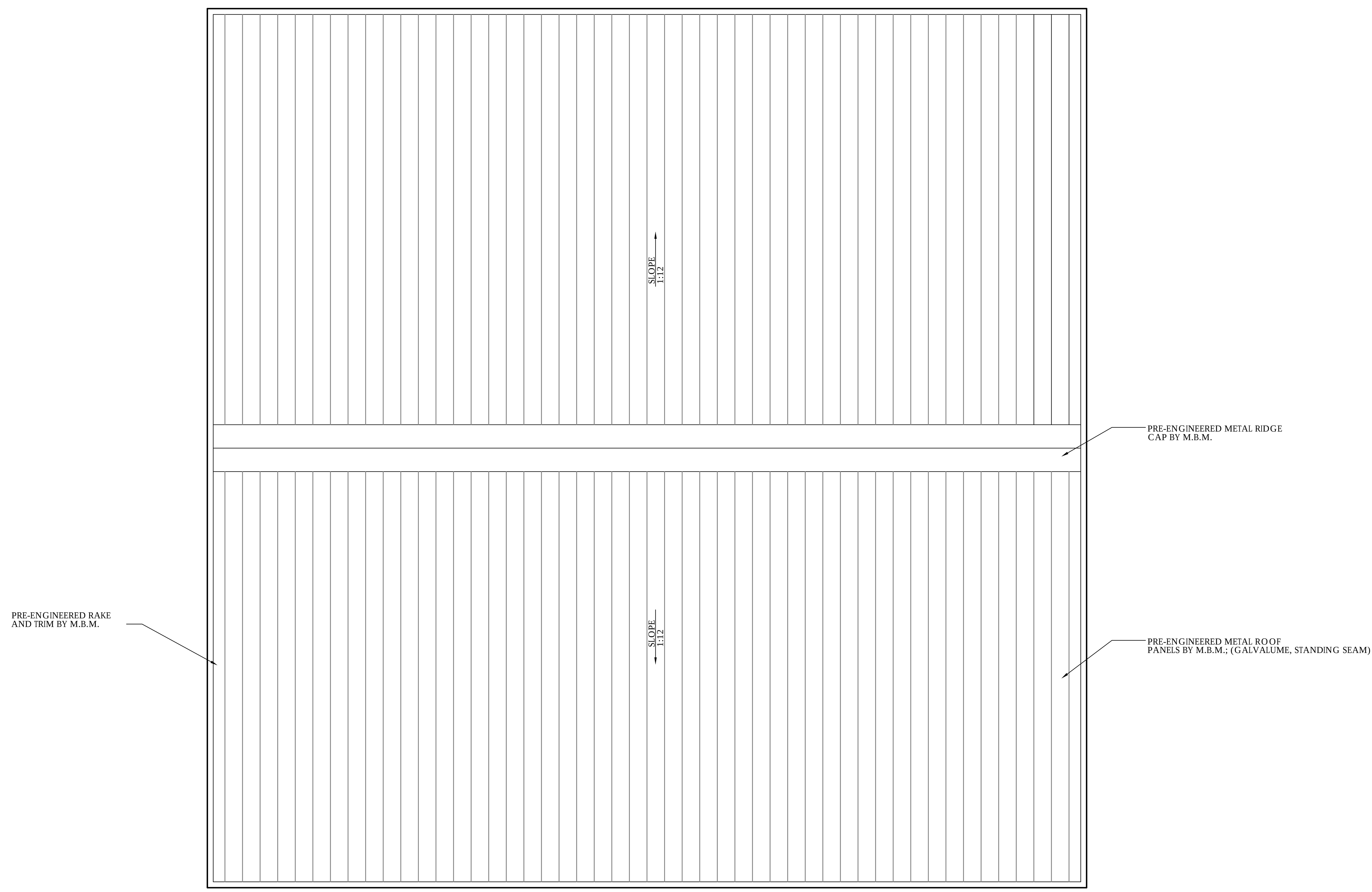

ROOF PLAN

GEORGIA
REGISTERED
No. 32181
PROFESSIONAL
ENGINEER
ANTHONY TOSS ALLEN
[illegible]
2/8/2017

309 HIGHWAY 119 SOUTH
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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

EFFINGHAM COUNTY GEORGIA EST. 1777

REVISIONS	
NUMBER	DATE
-	-
-	-
-	-
-	-

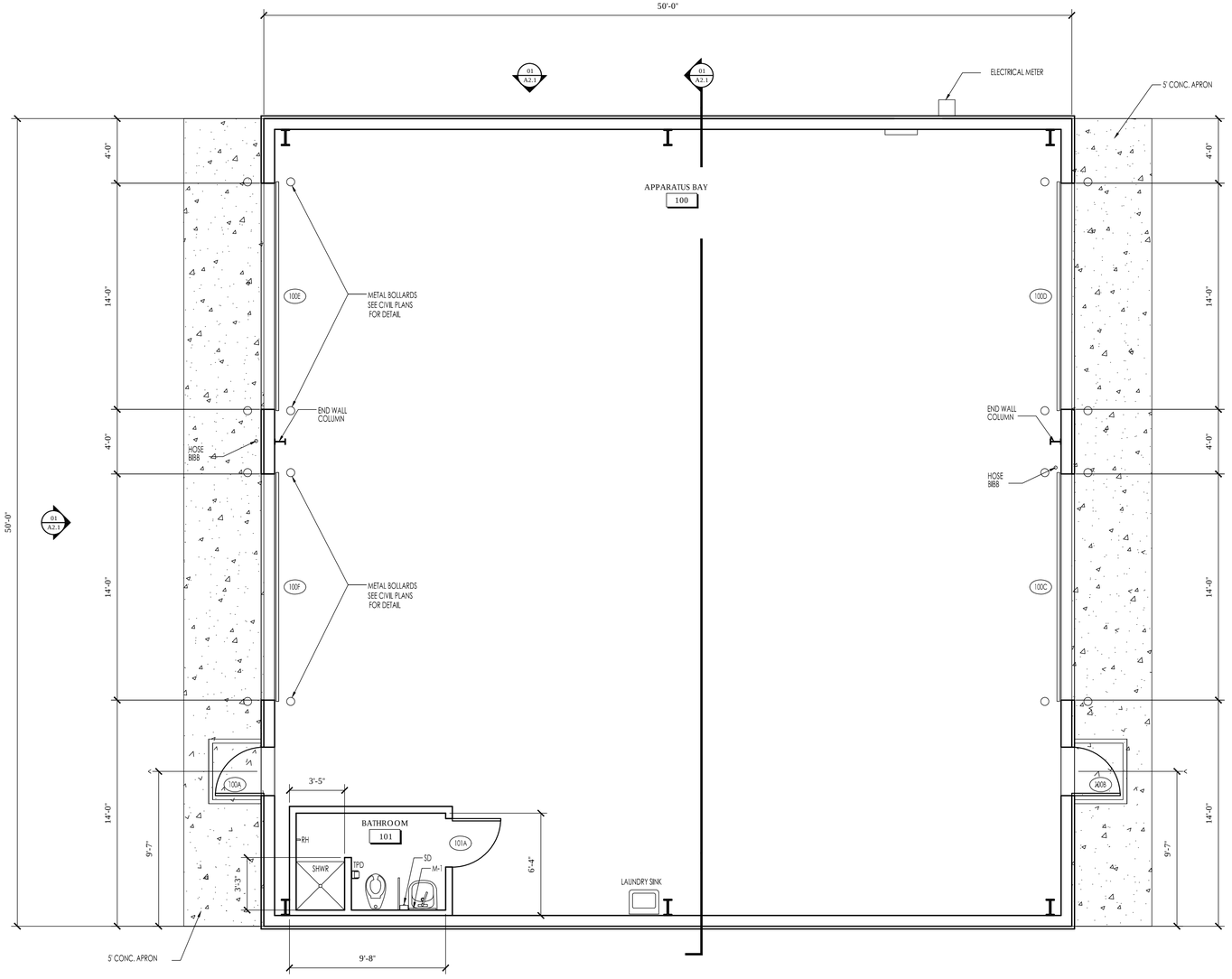
DESIGNED	ATA
DRAWN	ATA
CHECKED	ATA
DTATE	FEB 2017
JOB NO.	16-001
SCALE	1/4" = 1'

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

ROOF PLAN

SHEET NUMBER

S2.0



RH = ROBE HOOK
SD = SOAP DISPENSER
MI = 24"x40" MIRROR
TPD = TOILET PAPER DISPENSER
SHWR = ROUGH IN ONLY (SHOWER DRAIN)

FLOOR PLAN

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR					BASE					WALLS					CEILING					HT.	SOUND INSULATE	GENERAL NOTES
		CONCRETE (SEALED)	VINYL COMPOSITION TILE	CARPET	-	-	RUBBER WALL BASE	-	-	-	-	5/8" GYPSUM BD.	1-1/11 (OUTSIDE OF 101 & 102)	METAL PANELS	-	-	24" X 24" A.C.T.	5/8" GYPSUM BD.	OPEN	-	-			○ - INDICATES MAT'L USED, NO FIELD FINISH REQUIRED ● - INDICATES MAT'L USED, FIELD FINISH REQUIRED SEE WALL KEY, SHEET A1.0 FOR MORE INFORMATION REGARDING FINISH AND INSULATION
100	APPARATUS BAY	●										○	○						○			-		
101	OFFICE	●					○					●						●				9'-0"	YES	
102	BATHROOM	●					○					●						●				9'-0"	YES	

STATE OF GEORGIA
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ANTHONY TOSS ALLEN
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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

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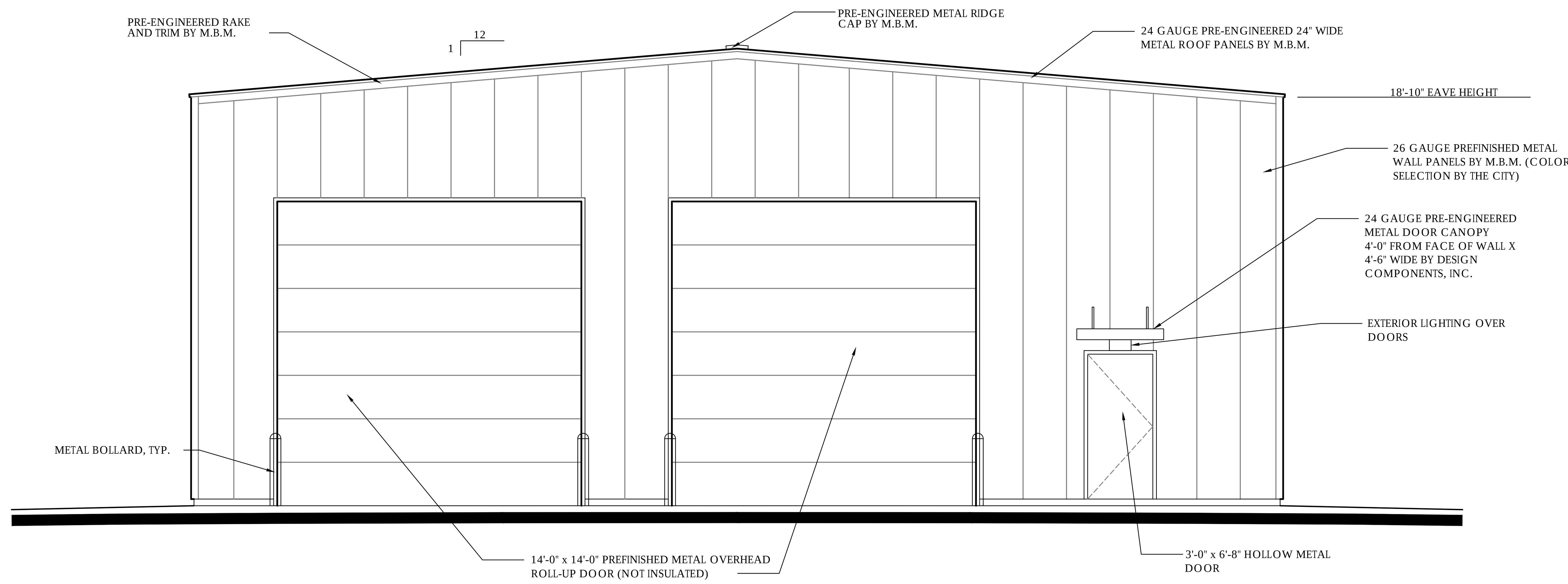
STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

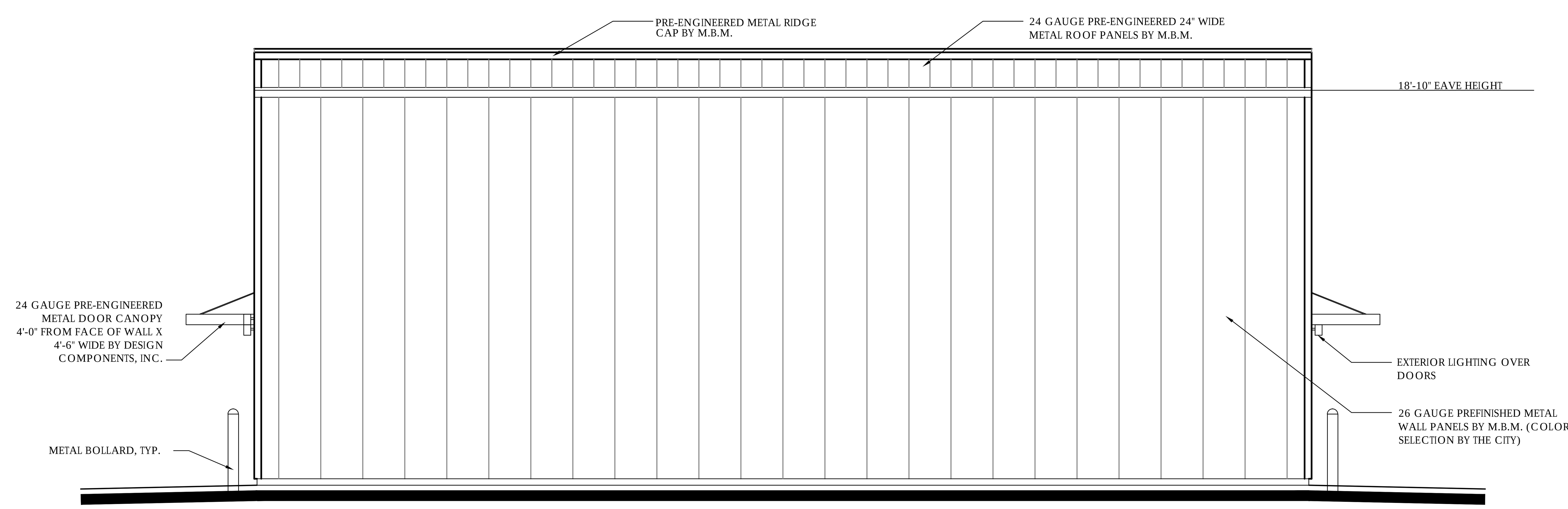
FLOOR PLAN

SHEET NUMBER

A1.0



FRONT ELEVATION



SIDE ELEVATION

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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
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-	-
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-	-

DESIGNED	ATA
DRAWN	ATA
CHECKED	ATA
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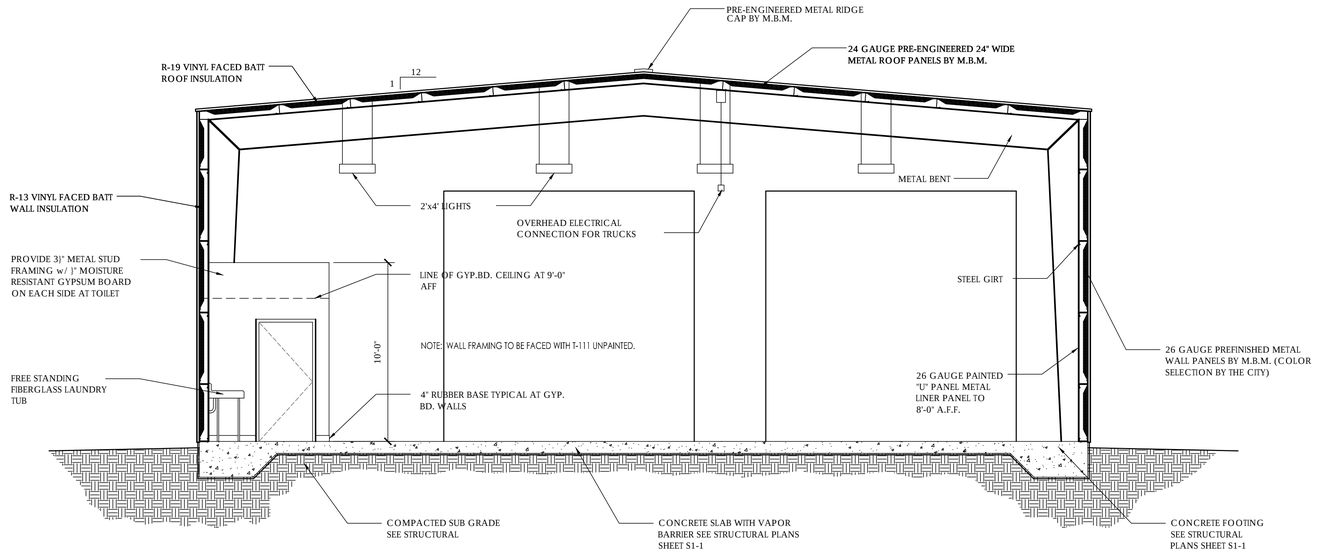
SCALE	1/4" = 1'

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

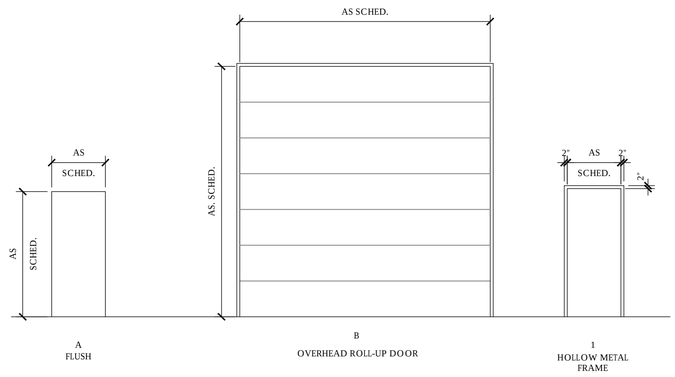
ELEVATIONS

SHEET NUMBER

A2.0



BUILDING SECTION



DOOR AND FRAME TYPES

NOTE: WALL FRAMING TO BE FACED WITH T-111 UNPAINTED.

DOOR SCHEDULE

	DOOR					FRAME					FINISH		HDWR SET	REMARKS
MARK	WIDTH	HT	THK	MAT	TYPE	MAT	TYPE	HEAD	JAMB	SILL	DOOR	FRAME		
100A	3'-0"	6'-8"	1¾"	HM	A	HM	1	--	--	--	PT	PT	01	STANDARD LEVER KEYED TO COUNTY MASTER
100B	3'-0"	6'-8"	1¾"	HM	A	HM	1	--	--	--	PT	PT	01	STANDARD LEVER KEYED TO COUNTY MASTER
100C	14'-0"	14'-0"	1¾"	MTL	B	HM	--	--	--	--	PT	PT	--	ELECTRICALLY OPERATED w/ REMOTE CONTROL & MANUAL OVER RIDE
100D	14'-0"	14'-0"	1¾"	MTL	B	HM	--	--	--	--	PT	PT	--	ELECTRICALLY OPERATED w/ REMOTE CONTROL & MANUAL OVER RIDE
100E	14'-0"	14'-0"	1¾"	MTL	B	HM	--	--	--	--	PT	PT	--	ELECTRICALLY OPERATED w/ REMOTE CONTROL & MANUAL OVER RIDE
100F	14'-0"	14'-0"	1¾"	MTL	B	HM	--	--	--	--	PT	PT	--	ELECTRICALLY OPERATED w/ REMOTE CONTROL & MANUAL OVER RIDE
101A	3'-0"	6'-8"	1¾"	HM	A	HM	1	--	--	--	PT	PT	02	STANDARD LEVER WITH PRIVACY LOCK

HARDWARE SET 01

DOORS: 100A & 100B
EACH TO RECEIVE:

3	EA	HINGE	TA2314 NRP 5 X 4.5 US32D	MK
1	EA	RIM EXIT	8810 US32D	SA
1	EA	SURFACE CLOSER	281 CPSH EN	SA
1	EA	KICKPLATE	K1050 8" x 34" US32D	RO
1	EA	THRESHOLD	107A 36" MSES10SS	PE
1	EA	GASKETING	303AS 36" X 84"	PE
1	EA	RAIN GUARD	346C 40"	PE
1	EA	SWEEP	315CN 36"	PE

HARDWARE SET 02

DOORS: 101A
EACH TO RECEIVE:

3	EA	HINGE	TA2714 4.5 X 4.5	MK
1	EA	CYLINDRICAL LOCK	28 10U65 LL US26D	SA
1	EA	SURFACE OVERHEAD STOP	1548S US26D	SA
3	EA	SILENCERS	608	RO

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STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

BUILDING SECTION AND DOOR SCHEDULES

SHEET NUMBER

A3.0

LEGEND & ABBREVIATIONS

ABBREVIATION	SYMBOL	DESCRIPTION
W, S, D	——— S ———	SANITARY WASTE, SOIL & DRAIN
V	- - - - - - - - - - - - - - - - - -	VENT - SANITARY
CW	——— — ———	DOMESTIC COLD WATER
HW	——— — — ———	DOMESTIC HOT WATER
GCO	———◉	GRADE CLEANOUT

ABBREVIATION	DESCRIPTION
A/C	ABOVE CEILING
CONN	CONNECT(ION)
CONT	CONTINUATION
DN	DOWN
HB	HOSE BIBB
SAN	SANITARY
U/G	UNDERGROUND
VTR	VENT THRU ROOF
W	WASTE

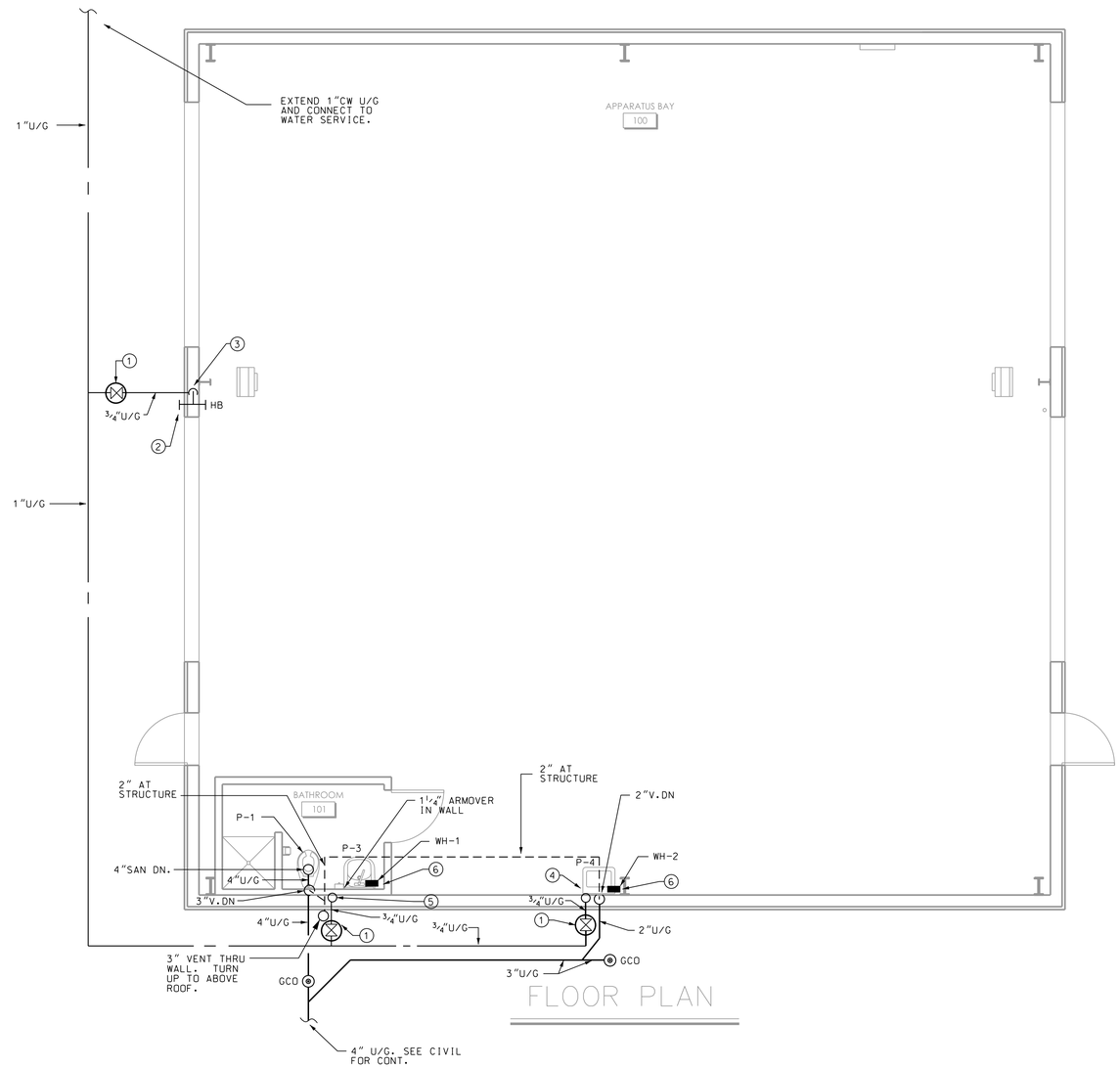
GENERAL NOTES: (PLUMBING)

1. ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
2. COORDINATE ALL WORK WITH OTHER TRADES.

PLUMBING FIXTURES

SPEC. TYPE	FIXTURE	MINIMUM INDIVIDUAL CONNECTION				REMARKS
		COLD	HOT	VENT	WASTE	
P-1	WATER CLOSET ADA	½"	---	---	4"	18" TO RIM ①
P-3	LAVATORY ADA	½"	½"	---	1¼"	34" TO RIM ①
P-4	SERVICE SINK	½"	½"	---	2"	FREE STANDING

① FIXTURE, TRIM AND INSTALLATION SHALL COMPLY TO ADA REQUIREMENTS.



FLOOR PLAN

PLUMBING SPECIFICATIONS

CODES

A. THE PLUMBING INSTALLATION AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
   1. INTERNATIONAL PLUMBING CODE, 2012 EDITION WITH AMENDMENTS.

TESTING PIPE SYSTEMS

A. GENERAL. CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

B. PLUMBING SYSTEMS

   1. SANITARY WASTE AND VENT PIPING. THE PIPING SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TESTS SHALL BE APPLIED TO THE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FT. HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FT. OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPERMOST 10 FT. OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FT. HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST FOR AT LEAST 2 HOURS BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL BE TIGHT AT ALL JOINTS.

   2. WATER PIPING. UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES, THE ENTIRE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEMS SHALL BE TESTED AT HYDROSTATIC PRESSURE OF 100 PSIG AND PROVED TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

DOMESTIC WATER SYSTEM

A. PROVIDE COMPLETE SYSTEMS OF COLD AND HOT WATER PIPING AND ACCESSORIES SO THAT EVERY FIXTURE AND PIECE OF WATER USING EQUIPMENT IN THIS AREA OF THE BUILDING WILL BE FURNISHED WITH A WATER SUPPLY.

B. PIPING FITTINGS AND JOINTS
   1. PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON THE SERVICES INDICATED.

   2. WATER PIPING SHALL BE "PEX" TUBING INSTALLED PER MANUFACTURER'S REQUIREMENTS.

C. DISINFECTION

   1. ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS - (0.2) - PARTS PER MILLION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT CERTIFICATION THAT THE SYSTEM WAS DISINFECTED.

SANITARY, WASTE, VENT AND INDUSTRIAL DRAINAGE SYSTEM

A. PROVIDE A COMPLETE SYSTEM OF SANITARY, WASTE, AND VENT PIPING AS SHOWN ON THE DRAWINGS.

B. PIPE FITTINGS AND JOINTS

   1. PIPE FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED FOR THE SERVICES INDICATED.

   2. SCHEDULE 40 PRESSURE RATED PVC PIPE AND DWV FITTINGS WITH SOLVENT GLUED JOINTS FOR ALL SANITARY, WASTE AND VENT PIPING.

   3. SOLVENT GLUED JOINTS SHALL BE MADE WITH PRIMER AND GLUE ACCORDING TO THE MANUFACTURER'S REQUIREMENTS.

C. INSTALLATION
   1. HORIZONTAL SOIL AND WASTE PIPING 2-1/2 INCHES IN SIZE AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/4 INCH PER FOOT. HORIZONTAL SOIL AND WASTE PIPING 3 INCHES IN SIZE AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8 INCH PER FOOT.
   2. HORIZONTAL VENT BRANCHES SHALL BE KEPT ABOVE THE HIGHEST FIXTURE SERVED BY THE VENT BRANCH IN ORDER TO PRECLUDE THE POSSIBILITY OF VENTS BEING USED AS WASTE PIPES. HORIZONTAL VENT BRANCHES SHALL BE SLOPED TO PREVENT THE ACCUMULATION OF WATER OR SCALE THEREIN.
   3. ON SOIL, WASTE AND VENT PIPING CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS AND CHANGES IN PIPE DIRECTION SHALL BE MADE WITH FITTINGS. NO BUSHINGS WILL BE ALLOWED.
   4. DURING CONSTRUCTION ALL PIPE OPENINGS, NOT BEING WORKED ON, SHALL BE PLUGGED OR CAPPED TO PREVENT FOREIGN OBJECTS FROM ENTERING SYSTEM.

INSULATION

A. ALL WATER PIPING SHALL BE INSULATED WITH FIBERGLASS INSULATION. THICKNESS SHALL COMPLY TO THE ENERGY CODE.

FIXTURES

A.	WATER CLOSET		P-1
	FIXTURE	KOHLER	K-3658
	SEAT	BEMIS	1655-SS/L
B.	LAVATORY		P-3
	FIXTURE	KOHLER	K-2032
	FAUCET	KOHLER	K-15593-F5-CP
	DRAIN	OFFSET ADA	
	INSULATION KIT	TRUEBRO	W105 WITH W102
C.	SERVICE SINK		P-4
	FIXTURE	FIAT	SF-1-F
	FAUCET	FIAT	A1

D. WATER HEATER WH-1 SHALL BE RHEEM RTE 3 OR EQUAL.

E. WATER HEATER WH-2 SHALL BE RHEEM RTE 7 OR EQUAL.

NOTES:

① GATE VALVE IN VALVE BOX.

② NON-FREEZE WALL HYDRANT.

③ ¾"CW UP TO HB AND NON-FREEZE WALL HYDRANT.

④ ¾"CW UP FROM BELOW FLOOR. EXTEND ½" CW TO P-4. EXTEND ½" TO WH-2. EXTEND FROM WH-2 TO P-4.

⑤ ¾"CW UP FROM BELOW FLOOR. EXTEND ½"CW TO P-1, P-3 AND WH-1. EXTEND ½" HW FROM WH-1 TO P-3.

⑥ MOUNT WATER HEATER BELOW FIXTURE. INSTALLATION SHALL COMPLY TO CODES AND MANUFACTURER'S REQUIREMENTS.

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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

REVISIONS		
NUMBER	DATE	
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DESIGNED	JPG
DRAWN	JPG
CHECKED	SMP
DTATE	26-FEB-2016
JOB NO.	16-001
SCALE	1/4" = 1'

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

FLOOR PLAN - PLUMBING

SHEET NUMBER
P1.0
OF

CADD PLOT
26-FEB-2016
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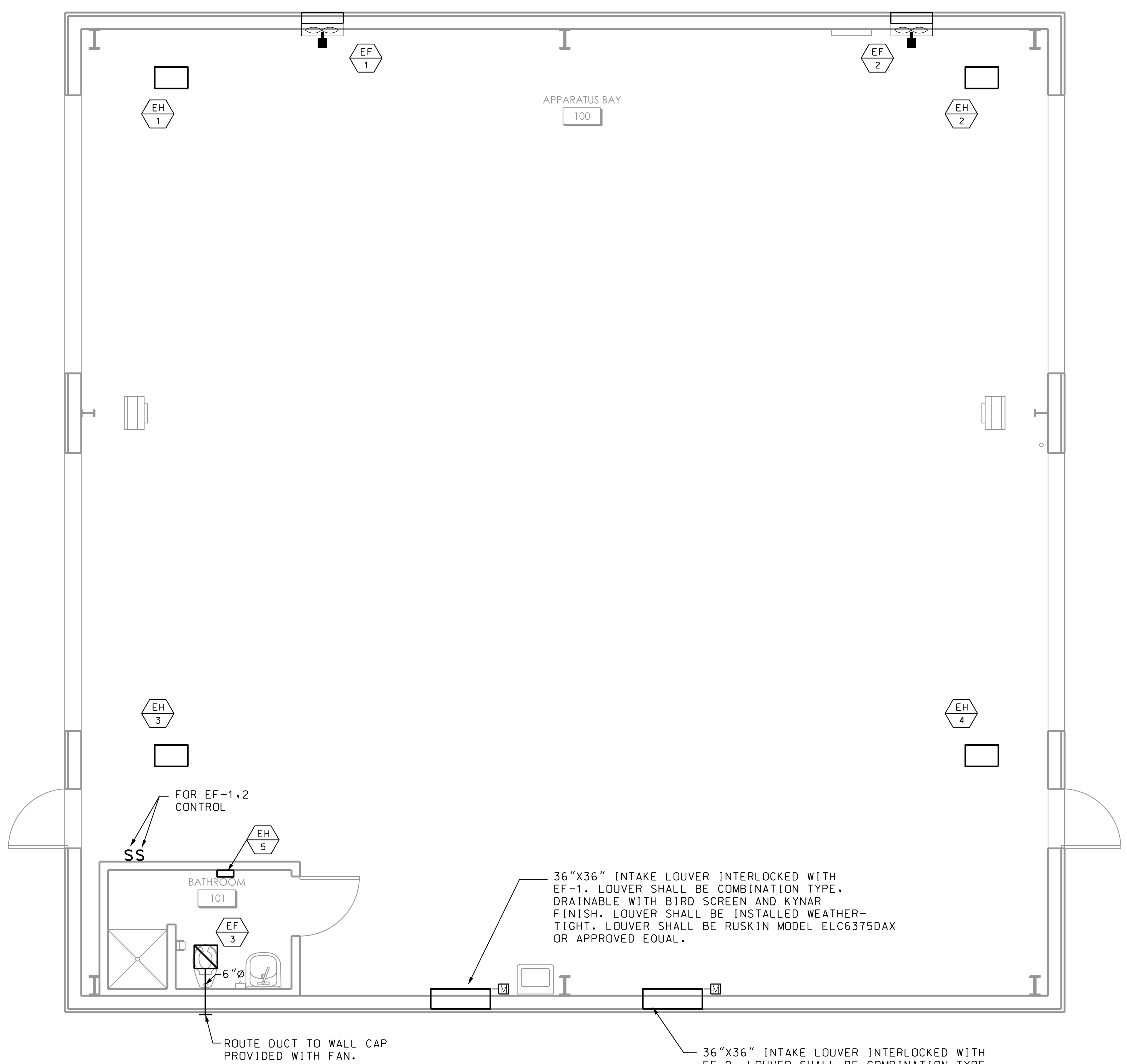
LEGEND & ABBREVIATIONS

ABBREVIATION	SYMBOL	DESCRIPTION
	————	SINGLE LINE DUCT
	⊹∽	FLEXIBLE DUCT
	——▶——	DUCT TRANSITION
	ϕ	ROUND
	——→	DIRECTION OF FLOW
MLD/MD	▭	MANUAL DAMPER
T'STAT	Ⓣ	THERMOSTAT - DAYTON MODEL 1UHH2

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A/C	ABOVE CEILING
ACU	AIR CONDITIONING UNIT
AD	DUCT ACCESS DOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
DN	DOWN
DWGS	DRAWINGS
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEC	ELECTRIC
EXH	EXHAUST
HVAC	HEATING VENTILATING & AIR CONDITIONING
MAX	MAXIMUM
MIN	MINIMUM
TYP	TYPICAL

GENERAL NOTES:

1. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
2. UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS, HUMIDISTATS AND SENSORS 54 INCHES ABOVE FINISHED FLOOR.
3. DUCT SIZES SHOWN ARE ACTUAL INSIDE DIMENSIONS.
4. FLEXIBLE OR ROUND DUCT SHALL BE CONNECTED TO RECTANGULAR OR SQUARE DUCT WITH A SPIN-IN COLLAR WITH SCOOP AND DAMPER.
5. INSTALL TURNING VANES IN ALL 45 AND 90 DEGREE MITERED ELBOWS.
6. CODES AND STANDARDS
   - A. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES:
     1. THE INTERNATIONAL BUILDING CODE 2012 EDITION WITH GEORGIA AMENDMENTS.
     2. THE INTERNATIONAL MECHANICAL CODE 2012 EDITION WITH GEORGIA AMENDMENTS.
     3. THE INTERNATIONAL ENERGY CONVERSATION CODE 2009 EDITION WITH GEORGIA AMENDMENTS.
   - B. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
     1. NFPA STANDARD 70, NATIONAL ELECTRIC CODE
     2. NFPA STANDARD 90A, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.
     3. NFPA STANDARD 101, CODE FOR SAFETY OF LIFE FROM FIRE IN BUILDINGS AND STRUCTURES.



FLOOR PLAN

ELECTRIC HEATERS

SYMBOL	EH-1	EH-2	EH-3	EH-4	EH-5
TYPE	UNIT HEATER	UNIT HEATER	UNIT HEATER	UNIT HEATER	WALL HEATER
CAPACITY, KW	7.5	7.5	7.5	7.5	1.0
MOUNTING HEIGHT TO BOTTOM, FT.	10	10	10	10	1
LOCATION	APPARATUS BAY	APPARATUS BAY	APPARATUS BAY	APPARATUS BAY	BATH ROOM
ELECTRICAL CHARACTERISTICS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS
REMARKS	①	①	①	①	②

① UNIT HEATER SHALL BE QMARK MODEL MUH OR APPROVED EQUAL. UNIT SHALL BE PROVIDED WITH MOUNTING KIT AND BUILT IN THERMOSTAT.

② WALL HEATER SHALL BE QMARK MODEL CWH OR APPROVED EQUAL. UNIT SHALL BE PROVIDED WITH SURFACE MOUNTING KIT AND BUILT IN THERMOSTAT.

EXHAUST FANS

SYMBOL	EF-1	EF-2	EF-3
TYPE	WALL PROP	WALL PROP	CABINET
CFM	3500	3500	100
EXTERNAL STATIC PRESSURE, IN. H_2O	0.25	0.25	0.25
MAXIMUM SONES	12.0	12.0	0.6
MAXIMUM FAN SPEED, RPM	---	---	---
MAXIMUM TIP SPEED, FPM	---	---	---
MAXIMUM OUTLET VELOCITY, FPM	---	---	---
MAXIMUM MOTOR HP	1/2	1/2	150 WATTS
DRIVE	DIRECT	DIRECT	DIRECT
LOCATION	APPARATUS BAY	APPARATUS BAY	BATH ROOM
ELECTRICAL CHARACTERISTICS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS
REMARKS	①	①	②

① FAN SHALL BE GREENHECK MODEL SE OR APPROVED EQUAL. FAN SHALL BE PROVIDED WITH OSHA GUARD HOUSING, BACKDRAFT DAMPERS, AND WALL SWITCH FOR ON/OFF OPERATION.

② FAN SHALL BE GREENHECK MODEL SP OR APPROVED EQUAL. FAN SHALL BE PROVIDED WITH INTEGRAL GRILLE, DISCONNECT SWITCH, AND WALL CAP WITH BACKDRAFT DAMPER FOR DISCHARGE. FAN SHALL BE INTERLOCKED WITH LIGHTS IN THE ROOM. COORDINATE WITH ELECTRICAL.

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30-MAR-2016
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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

EFFINGHAM COUNTY GEORGIA EST 1777

REVISIONS	
NUMBER	DATE
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DESIGNED	SMP
DRAWN	SMP
CHECKED	SMP
DATE	30-MAR-2016
JOB NO.	16-001
SCALE	1/4" = 1'

STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
EFFINGHAM COUNTY BOARD OF COMMISSIONERS

FLOOR PLAN - HVAC

SHEET NUMBER
M1.0
OF

LEGEND:

- HOMERUN
- CONCEALED CIRCUIT - NOTE G3.G5
- EQUIPMENT AS NOTED ON DRAWING
- MOTOR. HORSEPOWER INDICATED ON DRAWING
- S_S MANUAL MOTOR RATED SWITCH WITH OL PROTECTION
- JUNCTION BOX
- DISCONNECT SWITCH
- GF 15A. 125V GROUND FAULT DUPLEX RECEPTACLE
- 110V QUAD OUTLET
- 240V OUTLET. 50A.230/115V TO MATCH FIRE ALARM COMPRESSOR PLUG. COORDINATE WITH OWNER.
- S LIGHT SWITCH - SINGLE POLE. 48" UP
- S_3 THREE WAY. 48" UP
- 2'X4' HIGH BAY FLUORESCENT FIXTURE WITH LENS SIMILAR TO METALUX MODEL # HB1432MAEB82
- 2'X4' HIGH BAY FLUORESCENT FIXTURE WITH LENS SIMILAR TO METALUX MODEL # HB1432MAEB82 EMERGENCY FIXTURE
- 2'X4' 2 LAMP FLUORESCENT TROFFER IN GYP. BD.CEILING SIMILAR TO METALUX MODEL # 2FC8-232A-120V ER82 EMERGENCY FIXTURE
- EXTERIOR WALL PACK SIMILAR TO LUMARK MODEL # MPWP-GL-150-120V-BK
- EXIT LIGHT FIXTURE - SURELITE XLCNY85DL6RWI2
- PC PHOTOCELL. 1800VA. NORMALLY CLOSED
- SP SURGE PROTECTION 80KA,1PH,120/240V SURFACE MTD. NEMA 1 ENCL. SIMILAR TO APT TE71C. MOUNT ADJACENT TO PANEL
- ROLL-UP DOOR CONTROL STATION. FURNISHED WITH DOOR EQUIPMENT

NOTES:

1. PROVIDE 3 POSITION MAINTAINED. CENTER OFF 20A. 125V TO CONTROL OUTSIDE LIGHTS. UP IS "ON". CENTER "OFF". DOWN THRU PHOTOCELL. LABEL EACH POSITION.
2. CONNECT TO ROLL-UP DOOR RATED 1HP. 115/230V.1PH FROM 30/2/1 DISCONNECT. MAKE ALL CONNECTIONS AS REQUIRED. INSTALL CONTROL STATIONS AND PROVISIONS FOR REMOTE CONTROL.
3. EXHAUST FANS RATED 1/2HP. 1PH. 120V. MOUNT MOTOR SWITCH WITH OL PROTECTION ADJACENT TO FAN. FANS TO BE CONTROLLED ON-OFF FROM SWITCHES. INTERLOCK WITH LOUVERS AS SHOWN.
4. EH 1-4 ARE RATED 7.5KW. 1PH. 240V. CIRCUIT TO BE 3/4"CW/2NO.8. 1NO.10(G). DISCONNECT SWITCH TO BE 60/2/1.
5. ROLL-UP DOOR OPERATOR. LABEL EACH 'LEFT' OR 'RIGHT' DOOR.

GENERAL NOTES & SPECIFICATIONS

G1. ALL WORK TO COMPLY WITH 2011 NEC AND ALL STATE AND LOCAL ORDINANCES.

G2. COORDINATE ALL WORK WITH OTHER TRADES.

G3. ALL EXPOSED WIRING SUBJECT TO DAMAGE TO BE IN RGS OR IMC CONDUIT. PROVIDE STANDARD THREADED COUPLINGS. LOCKNUTS. BUSHINGS AND ELBOWS. ALL WIRING IN DIRECT CONTACT WITH THE EARTH TO BE SCH 40 PVC. ALL OTHER WIRING TO BE IN EMT WITH COMPRESSION FITTINGS.

G4. LABEL ALL OUTLET AND JUNCTION BOXES SHOWING CIRCUIT NUMBER.

G5. ALL CONDUCTORS TO BE STRANDED COPPER TYPE THWN. COLOR CODE AS FOLLOWS:

	PH A	PH C	NEUTRAL
230/145V	BLACK	RED	WHITE

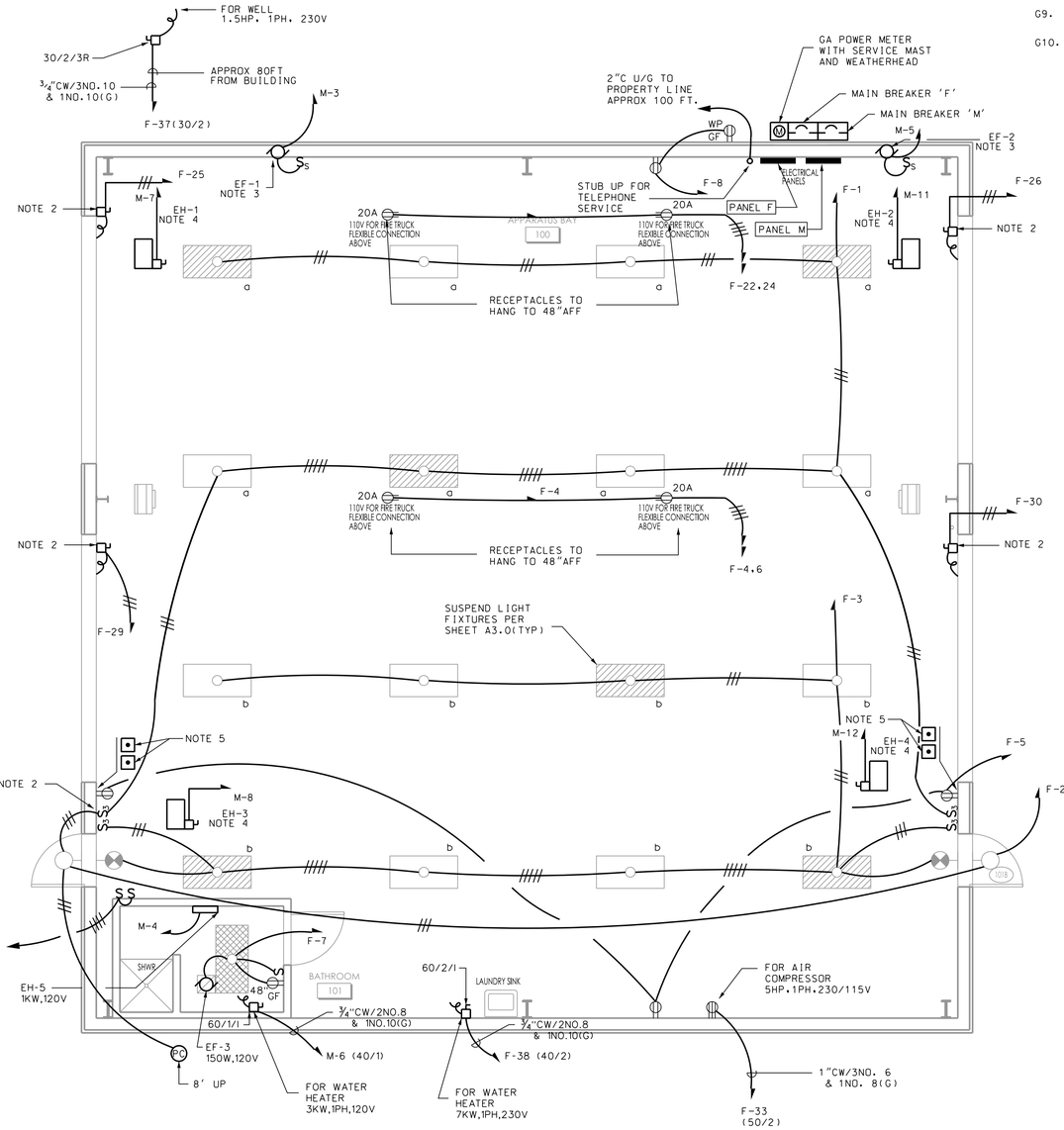
G6. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.

G7. FLUORESCENT BATTERY PACKS SHALL PROVIDE 1100 LUMENS FOR 90 MINUTES AND HAVE TEST SWITCH AND SELF-DIAGNOSTIC MODULE. VERIFY VOLTAGE IN FIELD AND SWITCH LAMPS USING OCCUPANCY SENSOR.

G8. EXTEND CONSTANTLY ENERGIZED CIRCUITS TO ALL EXIT AND EMERGENCY BATTERY PACKS.

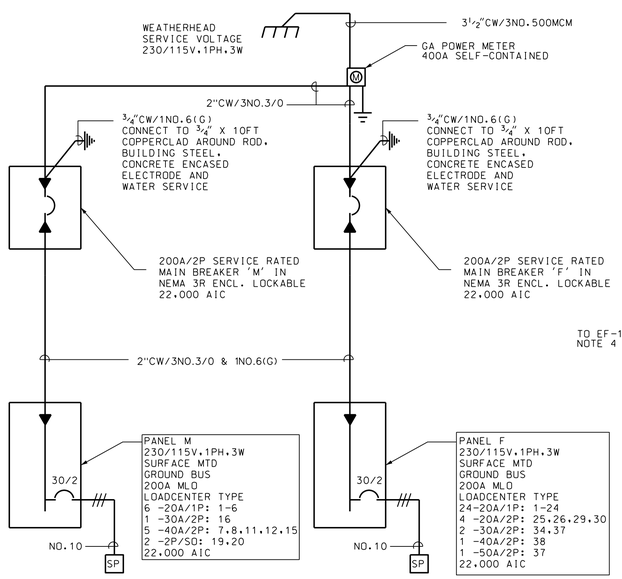
G9. ALL DEVICES TO BE IVORY SPEC. GRADE WITH IVORY PLASTIC DEVICE PLATES.

G10. OBTAIN PERMIT AND INCLUDE ALL COSTS IN BID.



LIGHTING AND POWER PLAN

SCALE: 1/4" = 1' 0"



ONE-LINE DIAGRAM

CADD PLOT
30-MAR-2016
11:07
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EFFINGHAM COUNTY
BOARD OF COMMISSIONERS
ENGINEERING DEPARTMENT

REVISIONS

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STILLWELL-CLYO ROAD FIRE STATION
PREPARED FOR:
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LIGHTING AND POWER PLAN

SHEET NUMBER
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