SITE PLAN CERTIFICATIONS

ENGINEER'S CERTIFICATION

IT IS HEREBY CERTIFIED THAT THIS SITE PLAN WAS PREPARED USING A SURVEY OF THE PROPERTY PREPARED BY SCOTT WOOD, RLS, AND DATED AUGUST 30, 2011; AND FURTHER THAT THE PROPOSED DEVELOPMENT MEETS ALL REQUIREMENTS OF THE JACKSON COUNTY UNIFIED DEVELOPMENT CODE, AS APPLICABLE TO THE PROPERTY.

BY (NAME): KENNETH L. PETERS
SIGNED: _____
REGISTERED PROFESSIONAL ENGINEER NO. 26331
ADDRESS: 303 SWANSON DRIVE, LAWRENCEVILLE, GA 30043
TELEPHONE NUMBER: (770) 962-1387
DATE: _____

OWNER'S CERTIFICATION

AS THE OWNER OF THIS LAND, AS SHOWN ON THIS SITE PLAN, OR HIS AGENT, I CERTIFY THAT THIS DRAWING WAS MADE FROM AN ACTUAL SURVEY, AND ACCURATELY PORTRAYS THE EXISTING LAND AND ITS FEATURES AND THE PROPOSED DEVELOPMENT AND IMPROVEMENTS THERETO.

DATE: _____
[OWNER][AGENT] (NAME): KEVIN POE
SIGNED: _____

SITE DEVELOPMENT PLANS

FOR

JACKSON COUNTY GOVERNMENT

PROPOSED EMS FACILITY

G.M.D. : 455

SITE ADDRESS: 4285 PLAINVIEW ROAD
MAYSVILLE, GA 30558

NOVEMBER 2015

ENVIRONMENTAL HEALTH DEPARTMENT CERTIFICATION

THE LOTS SHOWN HAVE BEEN REVIEWED BY THE JACKSON COUNTY ENVIRONMENTAL HEALTH DEPARTMENT AND ARE APPROVED FOR PRELIMINARY SUBDIVISION SITE WORK ONLY.
DATED THIS ____ DAY OF _____, 20_____.

BY: _____
TITLE: _____

JACKSON COUNTY ROADS DEPARTMENT CERTIFICATION

THE LOTS SHOWN HAVE BEEN REVIEWED BY THE JACKSON COUNTY ROADS DEPARTMENT AND ARE APPROVED FOR PRELIMINARY SUBDIVISION SITE WORK ONLY.
DATED THIS ____ DAY OF _____, 20_____.

BY: _____
ROADS SUPERINTENDENT

WATER AND SEWER PROVIDER CERTIFICATION

THIS DEVELOPMENT, AS SHOWN, HAS BEEN REVIEWED AND IS APPROVED FOR CONSTRUCTION ACTIVITY ONLY IN THAT IT HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE JACKSON COUNTY WATER & SEWERAGE AUTHORITY STANDARD SPECIFICATIONS WITH REGARD TO:

WATER SUPPLY (STRIKE THROUGH IF NOT APPLICABLE)
~~SEWAGE DISPOSAL (STRIKE THROUGH IF NOT APPLICABLE)~~

AND THAT ALL OF THE PROPOSED UTILITY EASEMENTS TO BE DEDICATED TO JCWSA ARE SHOWN ON THE PRELIMINARY PLAT AND CONSTRUCTION DRAWINGS.

THE JCWSA IS NOT RESPONSIBLE FOR THE ADEQUACY OF THE DESIGN, WHICH IS THE SOLE RESPONSIBILITY OF THE ENGINEER OF RECORD, WHOM STAMPED AND SEALED THE PLANS.
DATED THIS ____ DAY OF _____, 20_____.

BY: _____
TITLE: _____
ORGANIZATION: _____

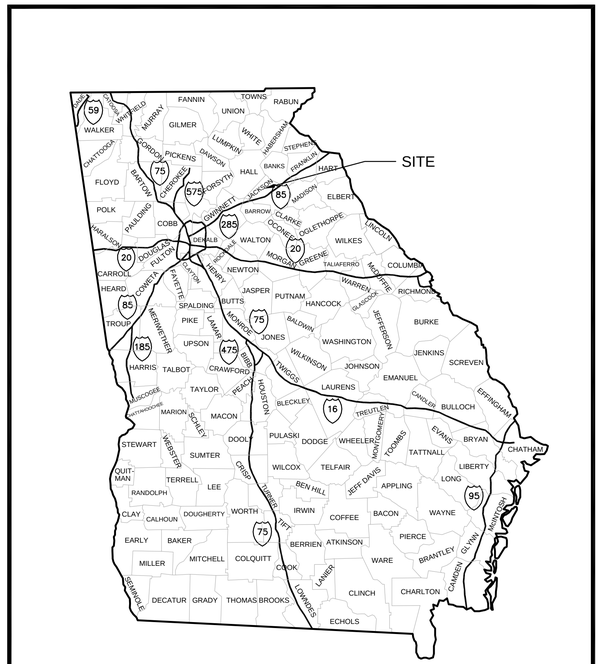
COMMISSIONERS

TOM CROW, CHAIRMAN
JIM HIX, COMMISSIONER DISTRICT 1
CHAS HARDY, COMMISSIONER DISTRICT 2
RALPH RICHARDSON, JR., COMMISSIONER DISTRICT 3
DWAIN SMITH, COMMISSIONER DISTRICT 4

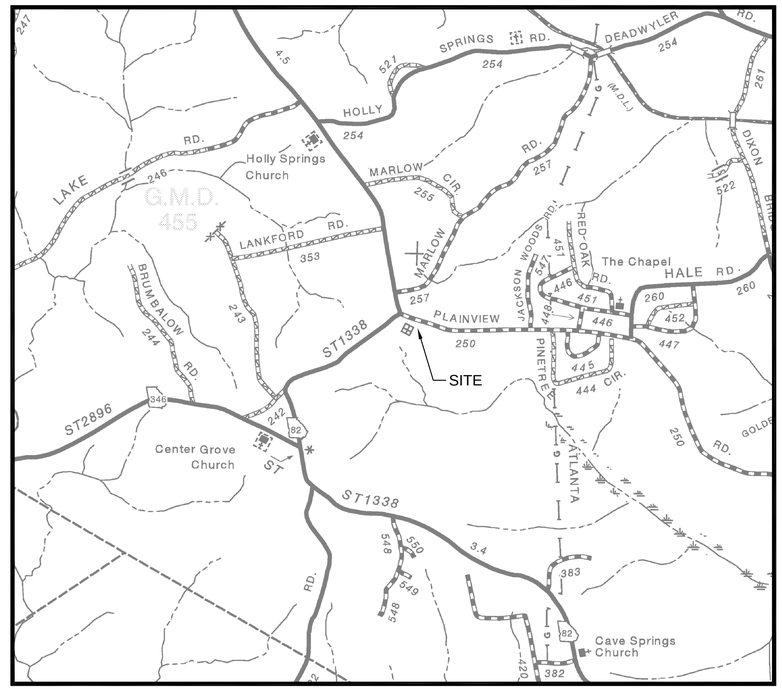
KEVIN POE, COUNTY MANAGER
STEVE NICHOLS, EMERGENCY SERVICES DIRECTOR
JASON BAKER, EMS DIRECTOR

INDEX

G1	COVER
G2	GENERAL NOTES
C1	EXISTING CONDITIONS
C2	OVERALL SITE PLAN
C3	SITE PLAN
C4	GRADING PLAN
C5	UTILITY PLAN
EC-A	EROSION CONTROL NOTES AND LEGEND
EC-B	EROSION CONTROL NOTES AND CHECKLIST
EC-C	DRAINAGE BASIN & RECEIVING WATERS PLAN
EC1	EROSION CONTROL PLAN INITIAL PHASE
EC2	EROSION CONTROL PLAN INTERMEDIATE PHASE
EC3	EROSION CONTROL PLAN FINAL PHASE
L1	LANDSCAPE PLAN
D1	EROSION CONTROL DETAILS
D2-D3	CONSTRUCTION DETAILS
D4	WATER SYSTEM DETAILS



LOCATION MAP
N.T.S.



PROJECT MAP
N.T.S.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

STAMP

G1
SHEET NO.

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plainview EMS\Design Stage\15037-C-Base-01-12-16.dwg

OWNER:
JACKSON COUNTY GOVERNMENT
67 ATHENS STREET
JEFFERSON, GA 30549
CONTACT: KEVIN POE, COUNTY MANAGER
(706) 367-6314
(706) 367-9083 (FAX)

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

PROJECT CONTACTS: KEN PETERS

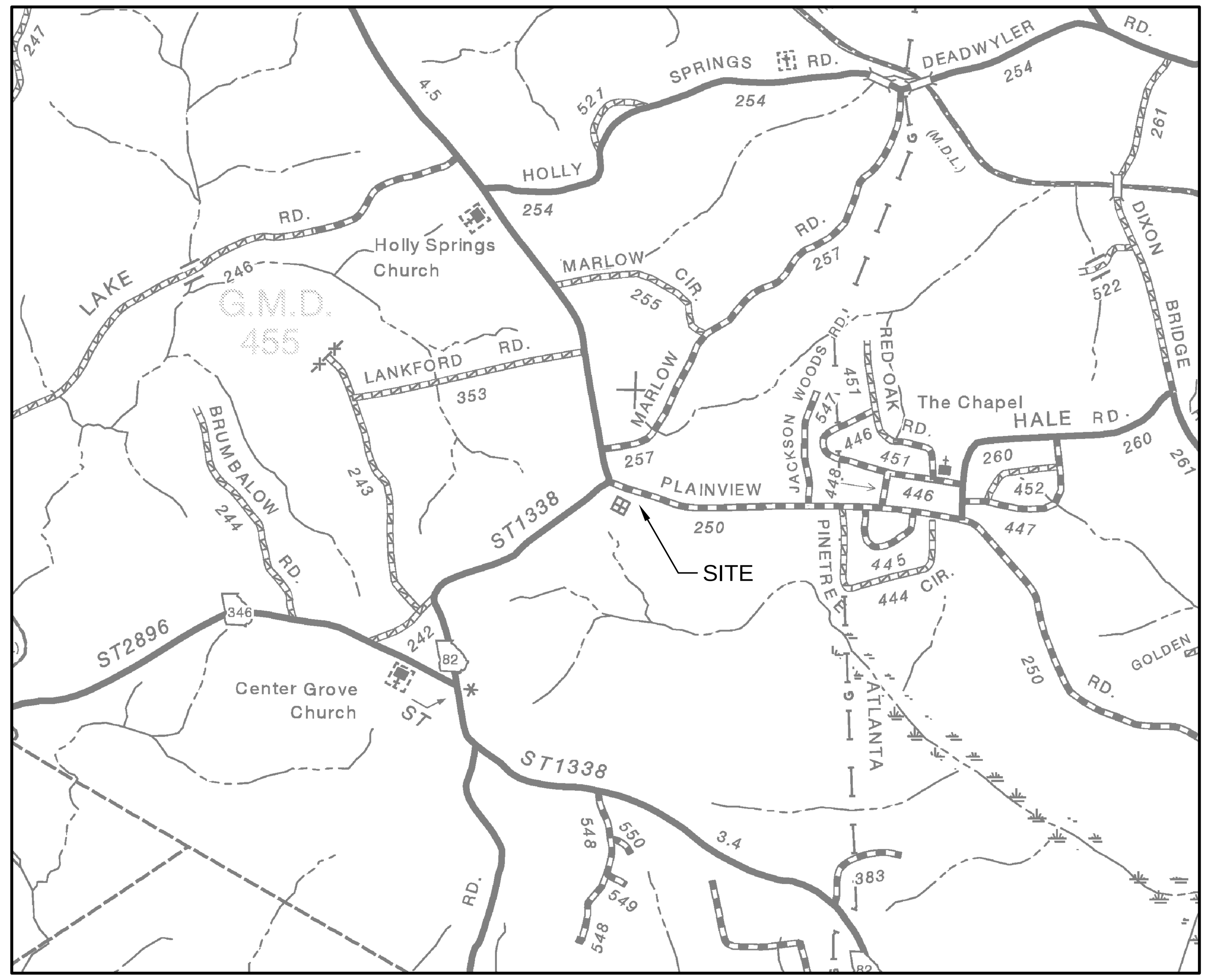
GENERAL NOTES:

1. TOTAL ACREAGE = 9.21 ACRES (DISTURBED AREA = 1.50 ACRES).
2. ZONING IS A-2 WITH PUBLIC INSTITUTIONAL LAND USE.
3. PROPOSED DEVELOPMENT = A NEW 3,500 S.F. EMS FACILITY WITH ASSOCIATED SITE IMPROVEMENTS (I.E. PARKING, STORM DRAINAGE, UTILITIES, ETC.).
4. LOCATION OF PROPERTY LINES WERE OBTAINED FROM BOUNDARY SURVEY FOR JACKSON COUNTY GOVERNMENT BY WOOD BROTHERS & SCOTT, INC., DATED FEBRUARY 13, 2009.
5. TOPOGRAPHIC INFORMATION BASED ON FIELD-RUN TOPOGRAPHY BY LAND DEVELOPMENT SURVEYORS, INC. DATED OCTOBER 29, 2015.
6. LOT TO BE SERVED BY ONSITE SEPTIC SYSTEM.
7. WATER PROVIDED BY JACKSON COUNTY WATER AND SEWERAGE AUTHORITY.
8. NATURAL VEGETATION TO REMAIN ON THE PROPERTY UNTIL THE ISSUANCE OF A LAND DISTURBANCE PERMIT.
9. NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A DESIGNATED FLOOD HAZARD AREA, PER FEMA FIRM PANEL NUMBER 13157C0107C, DATED DECEMBER 17, 2010 AND FIRM PANEL NUMBER 13157C0110C, DATED DECEMBER 17, 2010.
10. LAND DISTURBANCE LIMITED TO AREAS NEEDED FOR GRADING AND CONSTRUCTION TO BUILD A 3,500 S.F. BUILDING, PARKING LOT, DRIVEWAYS, SIDEWALKS AROUND BUILDING, UTILITIES TO SUPPLY BUILDING, AND A STORMWATER MANAGEMENT POND.
11. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF WORK. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATION SERVICE AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK.
12. CONTRACTOR TO NOTIFY THE UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. PHONE 1-800-282-7411.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES AT ALL TIMES.
14. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. ADDITIONAL UTILITIES MAY NOT BE SHOWN ON THESE PLANS. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF UNKNOWN UTILITIES ARE DISCOVERED.
15. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, HAVE REPLACED OR REPAIRED THE UTILITIES TO THEIR ORIGINAL OR BETTER CONDITION AND QUALITY, AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID.
16. A MINIMUM HORIZONTAL SEPARATION OF 10' SHALL BE MAINTAINED BETWEEN WATER LINES AND SANITARY SEWER LINES WHERE POSSIBLE. AN 18" MINIMUM VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS OF WATER AND SEWER LINES. WHEN CROSSING A WATER LINE OR SEWER LINE, PIPE JOINTS SHALL BE PLACED AS FAR AWAY AS POSSIBLE FROM THE OTHER PIPE.
17. ALL CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR AT HIS EXPENSE. THE OWNER SHALL PROVIDE ADEQUATE CONTROL AND BENCHMARKS.
18. WHEN CONSTRUCTION INVOLVES THE REMOVAL OF FENCE, POLES, SIDEWALKS, DRIVES, TEMPORARY OR FIXED STRUCTURES; THE CONTRACTOR AT HIS EXPENSE SHALL PROVIDE FOR TEMPORARY SERVICE OR CONTAINMENT TO THE AFFECTED PROPERTY, AND SHALL REPLACE SUCH ITEMS WITH SIMILAR OR BETTER MATERIALS AS SOON AS PRACTICAL OR AS DIRECTED BY THE OWNER FOLLOWING CONSTRUCTION.
19. THE CONTRACTOR SHALL RESTORE OR HAVE RESTORED, AT HIS EXPENSE, ALL EXISTING FACILITIES WHICH HAVE BEEN DAMAGED DUE TO HIS CONSTRUCTION ACTIVITIES, TO THE ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL UTILIZE THE SAME MATERIAL COMPOSITION AS EXISTING TO REPLACE THE EXISTING FACILITIES UNLESS APPROVED OTHERWISE BY THE OWNER.
20. SEE SHEET EC-A FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND LEGEND.
21. PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SAFETY DEVICES AND FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE. WRITTEN PERMISSION TO CLOSE THE CONSTRUCTION AREA TO TRAFFIC MUST BE OBTAINED FROM THE APPROPRIATE GOVERNMENT AGENCY PRIOR TO THE CLOSING. ALL LOCAL EMERGENCY SERVICES SHALL BE NOTIFIED IN WRITING A MINIMUM 72 HOURS PRIOR TO ROAD CLOSINGS.
22. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY TRAFFIC CONTROL MEASURES TO ENSURE SAFETY AT ALL TIMES FOR EMPLOYEES, RESIDENTS, AND MOTORISTS, IN ACCORDANCE WITH THE 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES', LATEST REVISION.
23. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA.
24. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL PROPERTY PINS THAT ARE DISTURBED DURING CONSTRUCTION ACTIVITY.
25. OWNER'S INSPECTOR SHALL CONFIRM COMPACTION OF DRIVEWAYS PRIOR TO INSTALLATION OF THE BASE COURSE.
26. OWNER'S INSPECTOR SHALL CONFIRM THICKNESS OF BASE AND ASPHALT/CONCRETE DURING CONSTRUCTION.

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

UTILITY OWNERS:

LOCAL POWER:	JACKSON EMC	PHONE: (706) 367-5281
WATER SYSTEMS:	JACKSON COUNTY WATER & SEWER AUTHORITY	PHONE: (706) 367-1741
SEWER SYSTEMS:	N/A	PHONE: N/A



SITE LOCATION MAP
JACKSON COUNTY, GEORGIA
NTS

ABBREVIATIONS:

A.R.V.	=	AIR RELEASE VALVE
B.M.	=	BENCHMARK
C.B.	=	CATCH BASIN
C.F.	=	CUBIC FEET
℄	=	CENTER LINE
C.M.P.	=	CORRUGATED METAL PIPE
C.O.	=	CLEANOUT
C.T.F.	=	CRIMP TOP FOUND
C.Y.	=	CUBIC YARD
D.E.	=	DRAINAGE EASEMENT
D.I.	=	DROP INLET
D.I.P.	=	DUCTILE IRON PIPE
D/W	=	DRIVEWAY
ELEV.	=	ELEVATION
E.O.P.	=	EDGE OF PAVEMENT
E.R.	=	EDGE OF ROAD
F.E.S.	=	FLARED END SECTION
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H.	=	FIRE HYDRANT
G.D.O.T.	=	GEORGIA DEPARTMENT OF TRANSPORTATION
G.M.D.	=	GEORGIA MILITIA DISTRICT
G.V.	=	GAS VALVE
G.W.	=	GUY WIRE
HDWL.	=	HEADWALL
I.E.	=	INVERT ELEVATION
I.P.F.	=	IRON PIN FOUND
J.B.	=	JUNCTION BOX
L.F.	=	LINEAR FOOT
M.H.	=	MANHOLE
N.A.	=	NOT APPLICABLE
N/F	=	NOW OR FORMERLY
O.T.F.	=	OPEN TOP FOUND
ℙ	=	PROPERTY LINE
P.P.	=	POWER POLE
P.V.C.	=	POLYVINYLCHLORIDE PIPE
R.C.P.	=	REINFORCED CONCRETE PIPE
R/W	=	RIGHT OF WAY
S.S.E.	=	SANITARY SEWER EASEMENT
STA.	=	STATION
T.B.M	=	TEMPORARY BENCHMARK
T.C.E.	=	TEMPORARY CONSTRUCTION EASEMENT
UP	=	UTILITY POLE
V.C.P	=	VITRIFIED CLAY PIPE
W.L.	=	WATER LINE
W.M.	=	WATER METER
W.V	=	WATER VALVE

LEGEND

EXISTING		PROPOSED
	WATER	
	SANITARY SEWER	N.A.
	PROCESS SEWER	N.A.
	GAS LINE	N.A.
	OVERHEAD POWER LINE	N.A.
	UNDERGROUND POWER LINE	N.A.
	OVERHEAD TELEPHONE LINE	N.A.
	UNDERGROUND TELEPHONE LINE	N.A.
	FIBER OPTIC LINE	N.A.
	STORM DRAIN	N.A.
	TOP OF BANK	N.A.
	RIGHT-OF-WAY	N.A.
	EDGE OF PAVEMENT	N.A.
	PERMANENT EASEMENT	N.A.
N.A.	TEMPORARY CONSTRUCTION EASEMENT	N.A.
	PROPERTY LINE	N.A.
	CREEK/DITCH CENTERLINE	
	ROAD CENTERLINE	N.A.
	POWER POLE	N.A.
	GUY WIRE	N.A.
	MANHOLE	N.A.
	WATER VALVE	
	FIRE HYDRANT	
	GUARDRAIL	N.A.
	WATER METER	N.A.
	TELEPHONE PEDESTAL	N.A.
	AIR RELEASE VALVE	N.A.
	AIR RELEASE/VACUUM VALVE	
	SIGN	N.A.
	BUILDING	N.A.
	FENCE	
	TREE LINE	N.A.
	TREE	N.A.
	BENCHMARK	N.A.
N.A.	CONTROL POINT	
SB01	SOIL BORING W/BORING NO.	N.A.
	ASPHALTIC CONCRETE PAVING	N.A.
	CONCRETE PAVING	N.A.
	GRAVEL ROAD	
	GUARD POST	N.A.
	RAILROAD	N.A.
CB	CATCH BASIN	N.A.
CO	CLEANOUT	N.A.
	POST INDICATOR VALVE	N.A.
	POLE	N.A.
	LIGHT POLE	N.A.
	MONITORING WELL	N.A.
	SURFACE FLOW	N.A.
	UNDERGROUND TELEPHONE PEDESTAL	N.A.
500	CONTOUR	500
500.10	SPOT ELEVATION	961.00
	RIP RAP	
	JUNCTION BOX	N.A.
	FIBER OPTIC POST/SIGN	N.A.
	UNDERGROUND TELEPHONE POST/SIGN	N.A.
N.A.	CHECK DAM	

REVISION

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

PROJECT: JACKSON COUNTY GOVERNMENT NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

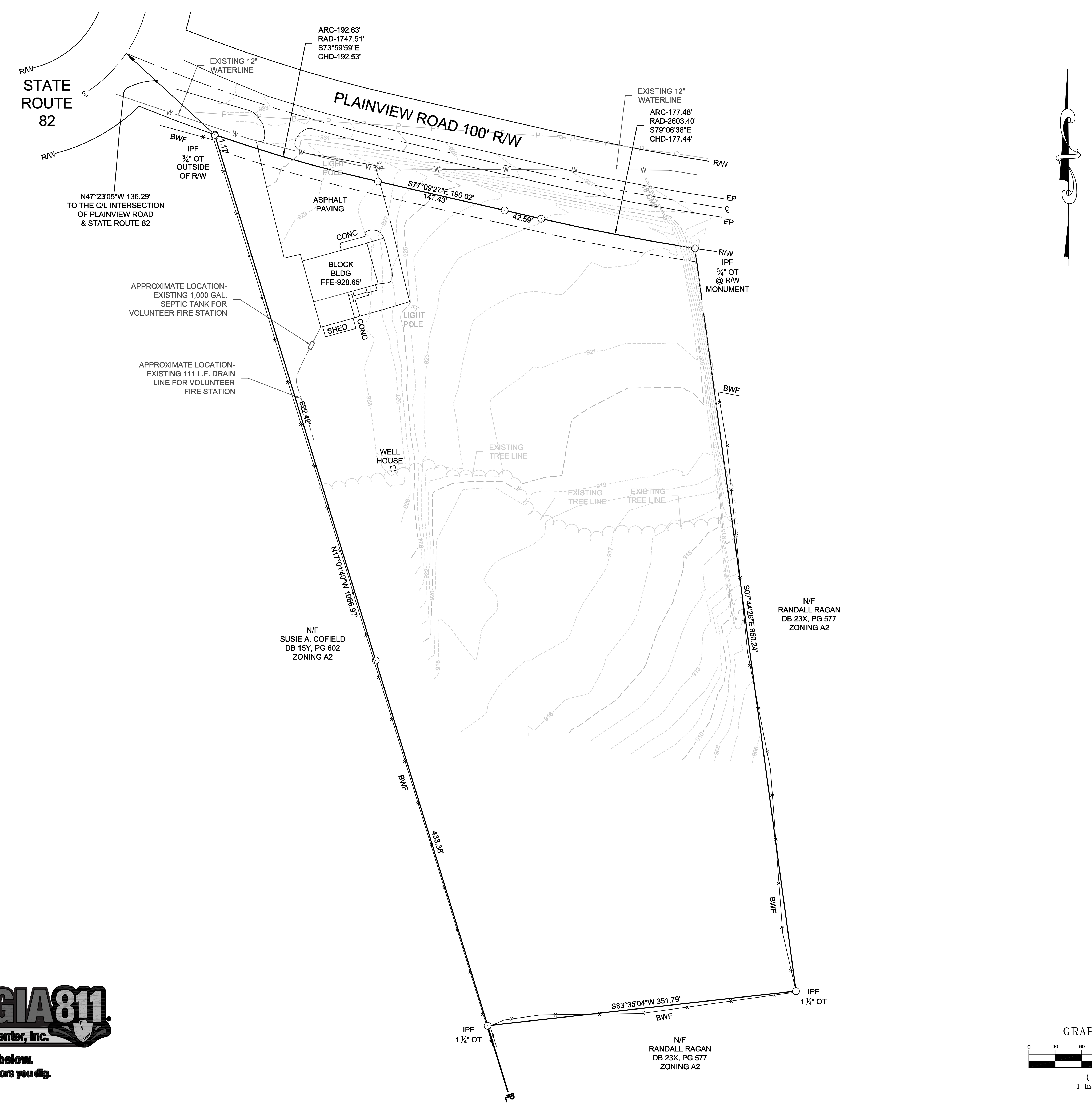
SHEET TITLE: GENERAL NOTES

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

STAMP: GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

DATE: 12/01/15
JOB NUMBER: 15037
FILE LOCATION: z:\projects
PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plainview EMS\Design Stage\15037-C-Base-01-12-16

SHEET: G2



GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE

0 30 60 120 180

(IN FEET)
1 inch = 60 ft.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EXISTING CONDITIONS

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

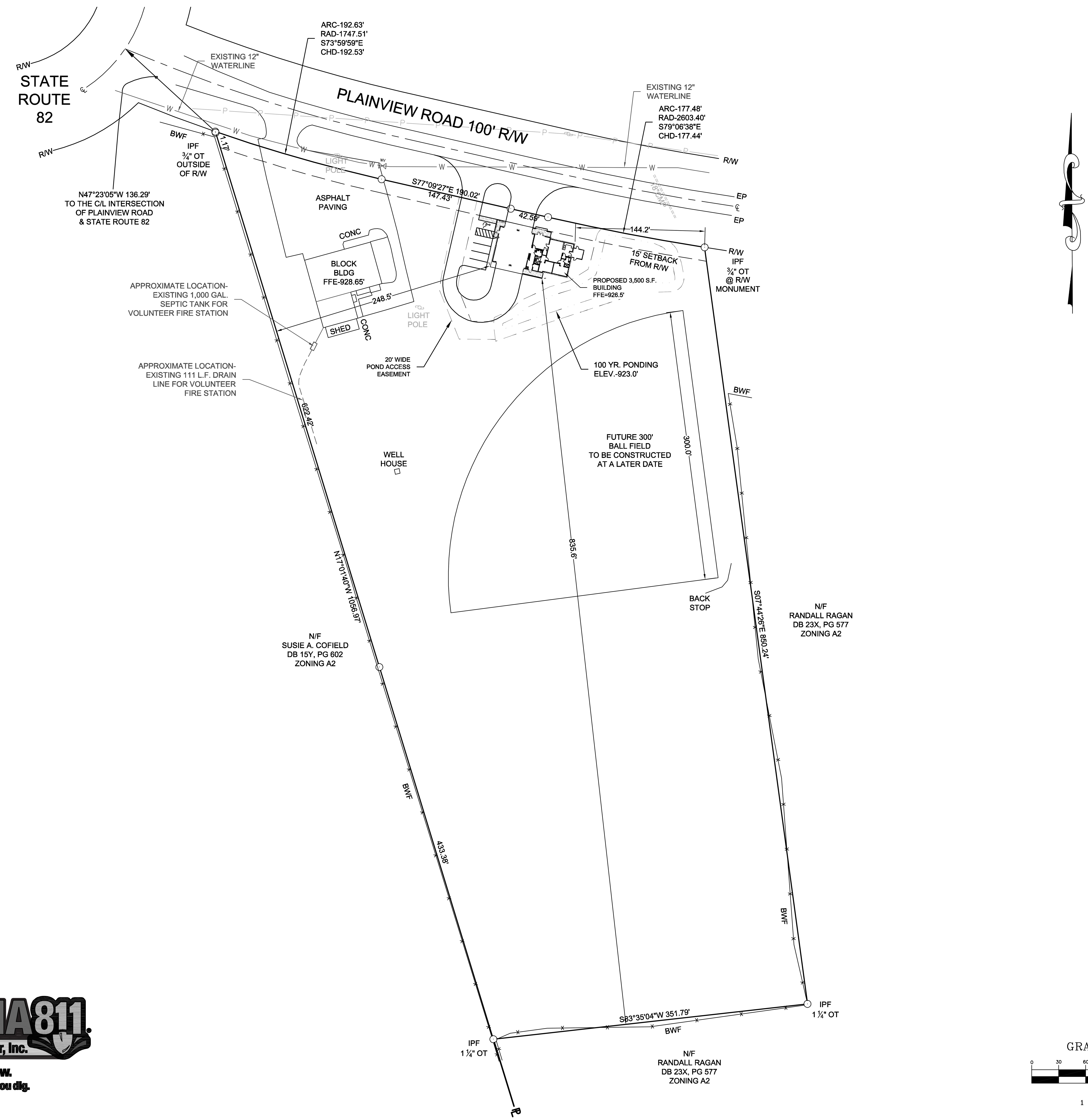
STAMP

12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

C1

SHEET

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16



GEORGIA 811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE

0 30 60 120 180

(IN FEET)
1 inch = 60 ft.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

OVERALL PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

C2

SHEET

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

WETLANDS NOTE

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY JACKSON COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND DISTURBANCE.

UTILITY DISCLAIMER

EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT CONTRACTOR EXPENSE.

CONSTRUCTION NOTES

1. MAXIMUM CUT AND FILL SLOPES IS 2H:1V; EXCEPT EARTHEN DAM EMBANKMENTS, ROCK CUTS, WHERE CERTIFIED BY A PROFESSIONAL GEOTECHNICAL ENGINEER.
2. FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN THREE INCHES IN SIZE.
3. FILL MATERIALS SHALL BE SPREAD EVENLY IN HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE LIFTS OVER THE FULL WIDTH AND COMPACTED TO 95% MAXIMUM DENSITY BY STANDARD PROCTOR COMPACTION TEST ASTM, D 698.
4. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL CONFORM TO THE APPLICABLE JACKSON COUNTY AND GEORGIA D.O.T. STANDARDS.
5. ANY EXISTING SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.

NOTES:

PARKING LOTS SHALL BE MAINTAINED IN GOOD CONDITION, FREE OF POTHOLES, WEEDS, DUST, TRASH, AND DEBRIS.

NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED.

ALL CONSTRUCTION TO COMPLY WITH JACKSON COUNTY STANDARDS.

HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.

NO DUMPSTERS ARE PROPOSED UNDER THIS PERMIT.

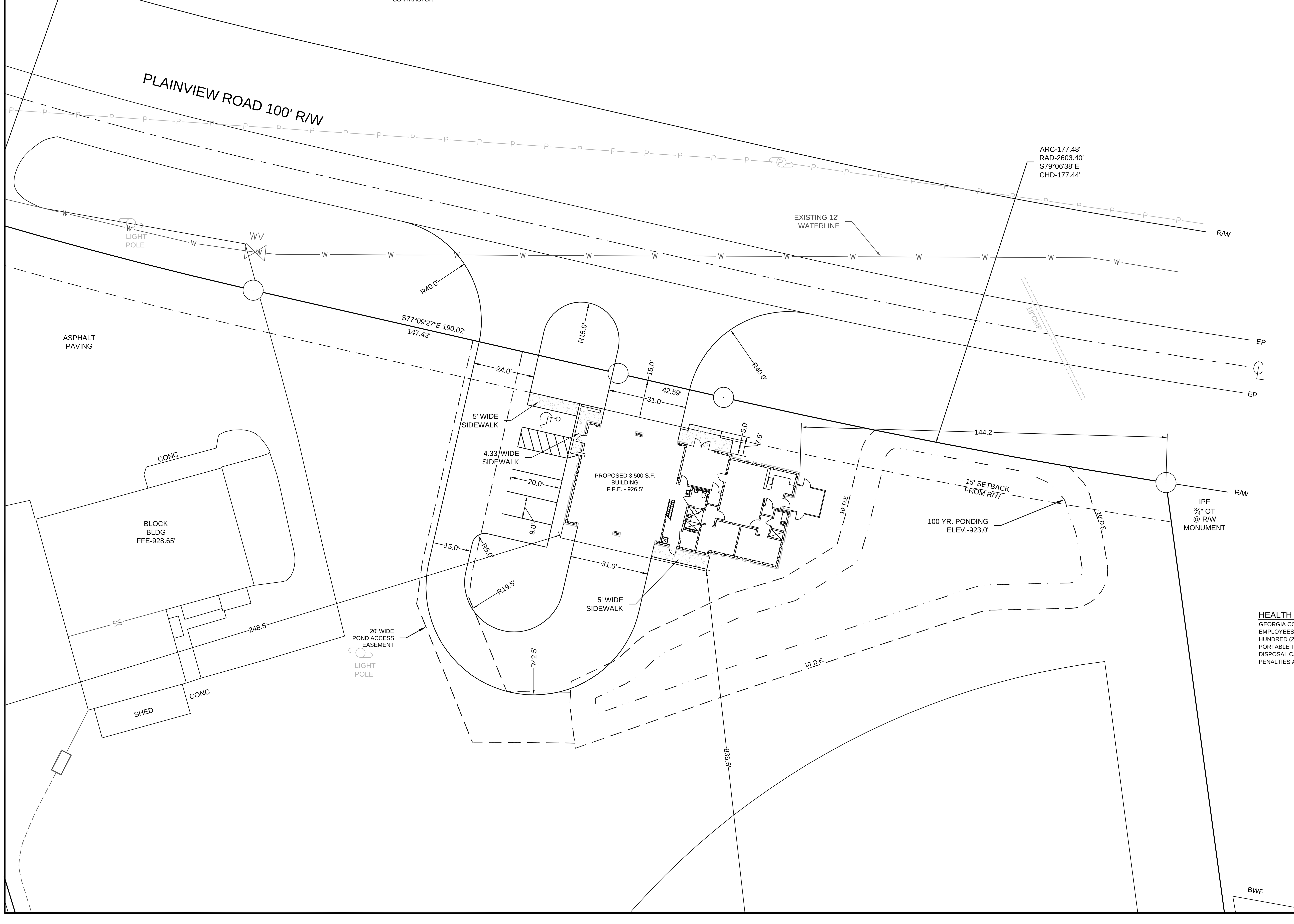
ALL SIGNS AND STRIPING TO BE PROVIDED AND INSTALLED BY THE OWNER. NOT IN CONTRACT.

SIDEWALK NOTES:

1. SIDEWALKS SHALL BE CONSTRUCTED OF CONCRETE A MINIMUM 4' IN WIDTH AND 4" THICK. SIDEWALKS SHALL BE CONSTRUCTED WITH A CROSS SLOPE OF 0.25 IN./FT. CONCRETE SHALL BE CLASS "B" AND HAVE A STRENGTH OF 2200 PSI AT 28 DAYS.
2. INTERSECTION RADIUS CURB RAMPS SHALL BE PROVIDED AT STREET INTERSECTIONS. STRAIGHT RAMPS MAY BE PROVIDED AT INTERSECTIONS OF CURBED DRIVEWAYS AND AT STREETS WITHOUT SIDEWALKS.

BUILDING PLAN REVIEW NOTES:

EACH BUILDING AND ITS RELATIVE LOCATION TO PROPERTY LINES AND OTHER STRUCTURES SHALL COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS (IBC) WITH REGARDS TO THE HEIGHT AND AREA REQUIREMENTS OF IBC TABLE 503 AND THE FIRE RESISTANCE AND HORIZONTAL SEPARATION REQUIREMENTS OF IBC TABLES 601 AND 602 BASED ON OCCUPANCY GROUP CLASSIFICATION AND TYPE OF CONSTRUCTION.



HEALTH DEPARTMENT NOTE

GEORGIA CODE 290-5-25-.03 (1) REQUIRES THE PROVISION OF SEWAGE DISPOSAL FOR EVERY WORK SITE WHERE EMPLOYEES REMAIN FOR TWO HOURS OR MORE. FURTHERMORE, TOILET FACILITIES MUST BE AVAILABLE WITHIN TWO HUNDRED (200') FEET OF A WORK SITE. YOU SHOULD ASSESS YOUR PROJECT FOR COMPLIANCE WITH THIS HEALTH CODE. PORTABLE TOILETS ARE AN ACCEPTABLE MEANS OF SEWAGE DISPOSAL AT WORK SITES WHERE PERMANENT SEWAGE DISPOSAL CAPABILITY IS NOT YET IN PLACE. FAILURE TO COMPLY WITH THIS CODE COULD RESULT IN CIVIL AND/OR CRIMINAL PENALTIES AGAINST YOU.

GEORGIA811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE

0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

SITE PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE

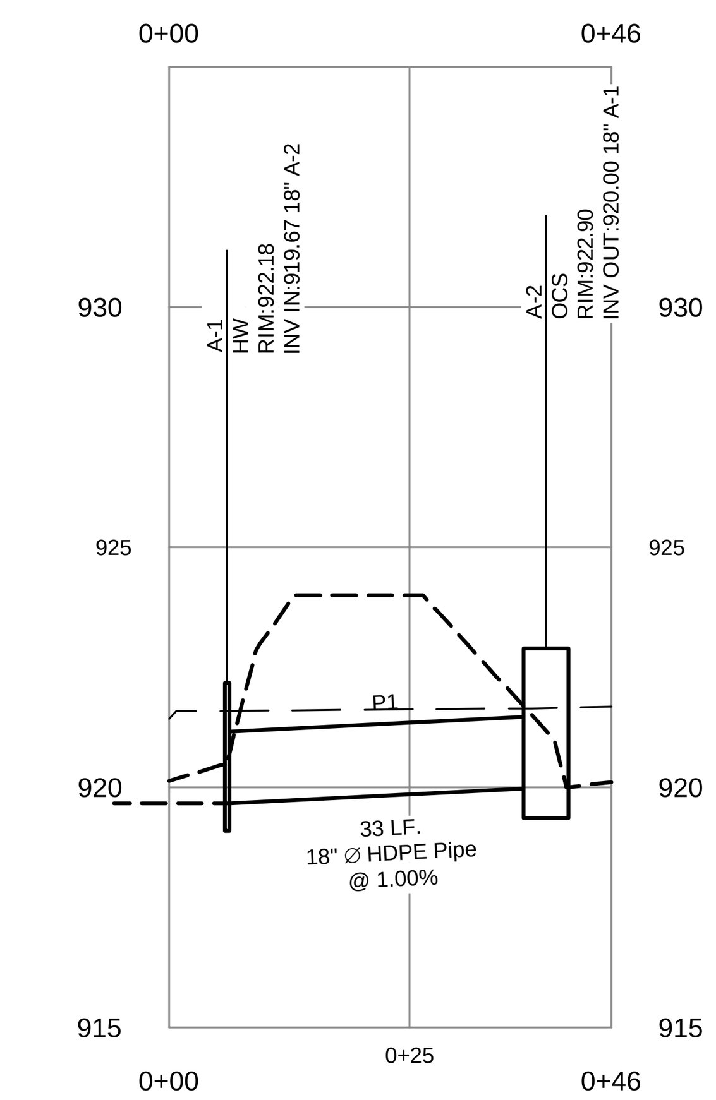
15037
JOB NUMBER

z:\projects
FILE LOCATION

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plainview EMS\Design Stage\15037-C-Base-01-12-16

C3

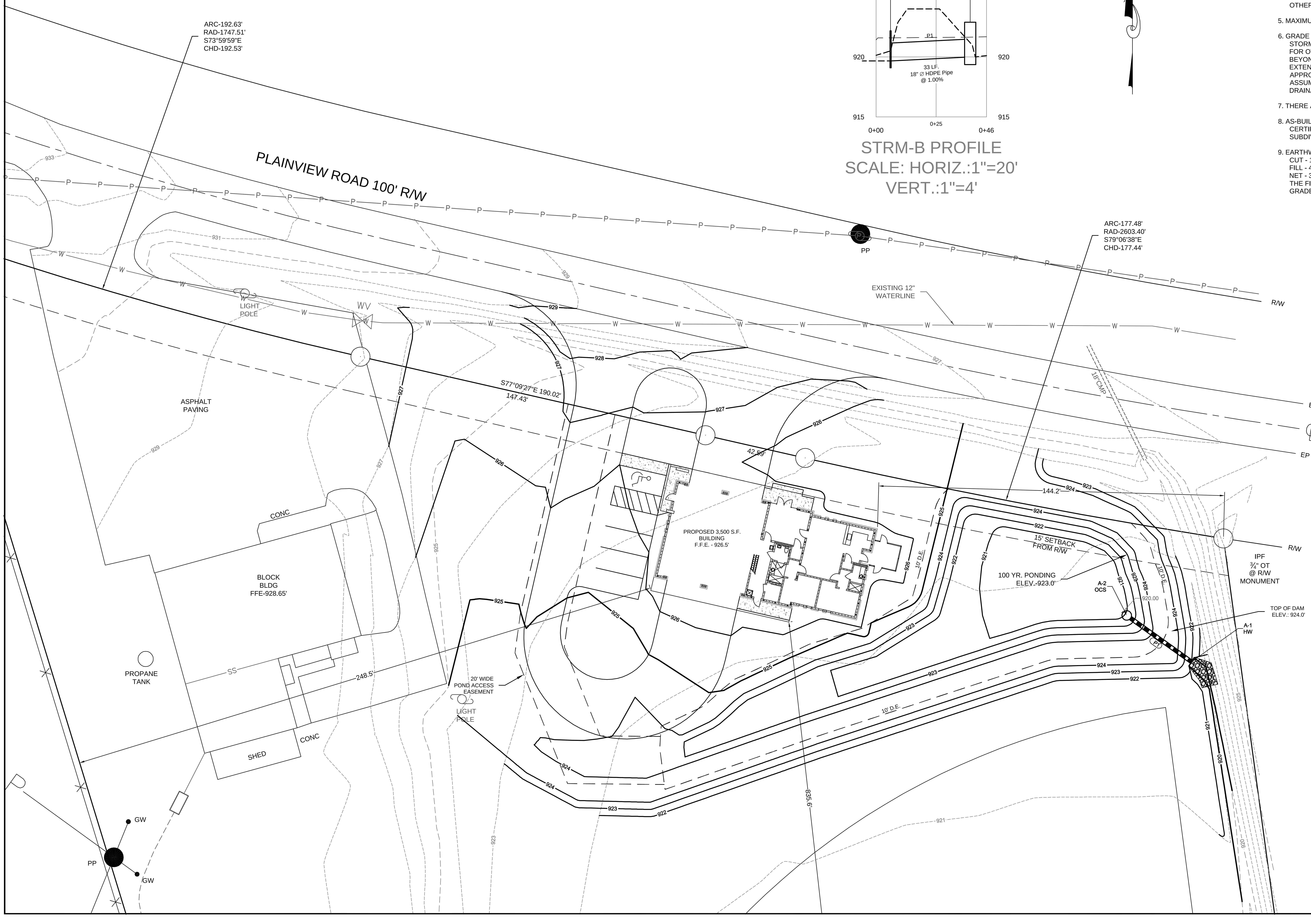
SHEET

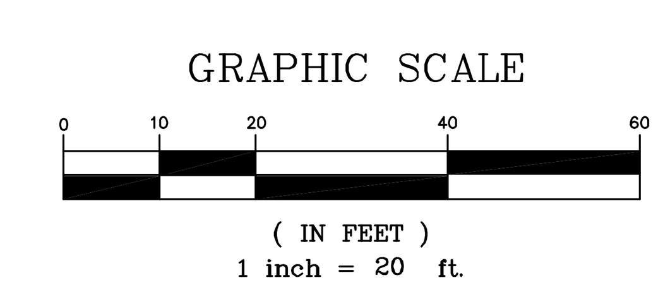


STRM-B PROFILE
SCALE: HORIZ.:1"=20'
VERT.:1"=4'

NOTES:

1. CONTOUR INTERVALS ARE 1 FEET.
2. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH REQUIREMENTS OF OSHA CONSTRUCTION STANDARDS, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING, AND SHORING, AND SUBPART O, MOTOR VEHICLES, MECHANIZED EQUIPMENT, AND MARINE OPERATIONS, AND SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO ENGINEER.
3. FILL MATERIALS SHALL CONSIST OF CLEAN SOIL, FREE OF ORGANIC OR DELETERIOUS MATERIALS, ROCKS, OR BROKEN PIECES OF CONCRETE LARGER THAN THREE INCHES IN SIZE, OR OF ANY OTHER FOREIGN OBJECTS THAT COULD IMPEDE COMPACTION RESULTS.
4. FILL MATERIALS SHALL BE SPREAD EVENLY IN HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE LIFTS OVER THE FULL WIDTH OF FILL AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY BY STANDARD PROCTOR COMPACTION TEST ASTMD698 UNLESS OTHERWISE NOTED.
5. MAXIMUM CUT OR FILL SLOPES ARE 2H:1V.
6. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS INTO STORM CHANNELS. JACKSON COUNTY ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENT OF THE STREET RIGHT-OF-WAY, OR FOR THE EXTENSION OF CULVERTS BEYOND THE POINT SHOWN ON THE APPROVED AND RECORDED PLAN. JACKSON COUNTY DOES NOT ASSUME THE RESPONSIBILITY FOR THE MAINTENANCE OF PIPES IN DRAINAGE EASEMENTS BEYOND THE COUNTY RIGHT-OF-WAY.
7. THERE ARE NO PROPOSED DISTURBANCE TO WETLANDS ON SITE.
8. AS-BUILT WATER PLANS REQUIRED PRIOR TO ISSUANCE OF CERTIFICATE(S) OF OCCUPANCY, OR RECORDING OF FINAL SUBDIVISION PLAT. SUBMIT TO WATER AND/OR SEWER PROVIDER.
9. EARTHWORK NUMBERS:
   CUT - 133 YDS
   FILL - 4,044 YDS
   NET - 3,911 YDS (FILL)
   THE FILL NUMBERS INCLUDE 15% SHRINKAGE AND ARE TO FINAL GRADE (NOT SUB-GRADE).





GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience • Trust • Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

GRADING PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

C4

SHEET

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plainview EMS\Design Stage\15037-C-Base-01-12-16

SEPTIC SYSTEM CALCULATIONS - NEW EMS FACILITY

DESIGN CALCULATIONS

DESIGN FLOW = 400 GPD (BASED ON 2 FULL TIME EMPLOYEES @ 150 GPD AND 4 VISITORS @ 25 GPD)

SEPTIC TANK = 1,000 GALLONS (ALLOWS FOR 24 HOUR RETENTION)

FOR PRIMARY DRAIN FIELD USING MADISON SOILS WITH PERC RATE = 50 MIN/IN

LF CONVENTIONAL DRAIN LINE = ($\sqrt{50}/5$) = 1.414 SF/GAL

$\frac{1.414 \text{ SF/GAL} \times 400 \text{ GPD}}{3 \text{ FT WIDE TRENCH}} = 189 \text{ LF}$

USE 190 LF OF CONVENTIONAL DRAIN LINE IN DRAIN FIELD.
TRENCH DEPTH OF 34" TO 38"

SEPTIC SYSTEM CALCULATIONS - EXISTING FIRE STATION

DESIGN CALCULATIONS

DESIGN FLOW = 100 GPD (BASED ON ORIGINAL SEPTIC PERMIT)

SEPTIC TANK = 1,000 GALLONS (ALLOWS FOR 24 HOUR RETENTION)

FOR PRIMARY DRAIN FIELD USING FILL OVER MADISON 1 SOILS WITH PERC RATE = 65 MIN/IN

LF CONVENTIONAL DRAIN LINE = ($\sqrt{65}/5$) = 1.612 SF/GAL

$\frac{1.612 \text{ SF/GAL} \times 100 \text{ GPD}}{3 \text{ FT WIDE TRENCH}} = 54 \text{ LF}$

USE 111 LF OF CONVENTIONAL DRAIN LINE IN DRAIN FIELD.
TRENCH DEPTH OF 40" TO 45"

GENERAL PIPE INSTALLATION:

1. WATER/SEWER PIPE AND APPURTENANCES SHALL BE INSTALLED ONLY WHEN TRENCH CONDITIONS ARE SUITABLE.
2. TRENCHES MUST BE DRY.
3. PROPER IMPLEMENTS, TOOLS, AND FACILITIES SHALL BE PROVIDED BY CONTRACTOR FOR SAFE AND CONVENIENT PERFORMANCE OF THE WORK.
4. PREVENT DAMAGE TO PIPE MATERIALS AND PROTECTIVE COATINGS AND LININGS.
5. DO NOT DROP OR DUMP PIPELINE INTO TRENCH.
6. CAREFULLY EXAMINE PIPE AND FITTINGS FOR CRACKS AND OTHER DEFECTS WHILE SUSPENDED ABOVE TRENCH IMMEDIATELY BEFORE INSTALLATION IN FINAL POSITION. DEFECTIVE PIPE OR FITTINGS SHALL BE CLEARLY MARKED AND SHALL BE REMOVED FROM SITE.
7. CLEAN BELL AND SPIGOT ENDS OF EACH PIPE THOROUGHLY BEFORE PIPE IS LAID.
8. PREVENT FOREGIN MATERIAL FROM ENTERING PIPE WHILE IT IS BEING PLACED IN LINE.
   A. PROVIDE PROTECTIVE COVERING FOR ENDS OF PIPE UNTIL CONNECTION IS MADE TO ADJACENT PIPE, IF NECESSARY.
   B. NO DEBRIS, TOOLS, CLOTHING, OR OTHER MATERIALS SHALL BE PLACED IN PIPE DURING LAYING OPERATIONS.
9. AS EACH LENGTH OF PIPE IS PLACED IN TRENCH, SPIGOT END SHALL BE CENTERED IN BELL AND PIPE FORCED HOME AND BROUGHT TO CORRECT LINE AND GRADE.
   A. PIPE SHALL BE SECURED IN PLACE WITH APPROVED BACK FILL MATERIAL TAMPED AROUND IT.
   B. PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING JOINT SPACE.
10. OPEN ENDS OF PIPE SHALL BE CLOSED BY WATERTIGHT PLUG, OR OTHER MEANS APPROVED BY OWNER, AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS. IF WATER IS IN TRENCH, PLUG SHALL REMAIN IN PLACE UNTIL TRENCH IS PUMPED COMPLETELY DRY. WATER SHALL NOT BE ALLOWED TO RUN INTO PIPE AT ANY TIME DURING CONSTRUCTION.
11. LAY PIPE WITH BELL ENDS FACING IN DIRECTION OF LAYING, UNLESS DIRECTED OTHERWISE BY OWNER.

PRE CONSTRUCTION MEETING REQUIRED BETWEEN SEPTIC CONTRACTOR AND HEALTH DEPARTMENT.

County: Jackson	Date: 11/28/15
Client: EMI (Contact: Ken Peters)	
Site Location Address: Portion of property on Plainview Road	
Phone Number: 678/990-6067	Lot Number(s):
Subdivision: NA	
Scale: 1" = 60'	
Intensity Level of Investigation: Level III	

Soil Properties

Soil Series *See Suitability Codes*	**Slope %** *Ranges Of the Soil Type*	**Depth To Bedrock** (inches)	**Depth to Seasonal High H²O Table** (inches)	**Expected Perc Rate At Recommended Trench Depth** (min/in)	**Recommended Trench Depth** (inches)	**Suitability Code** (listed below)
Pacolet Series	0 - 2	63 - >72	>72	50	36/34-38	A
Madison Series	0 - 2	>72	>72	50	36/36-44	A
Fill Over Madison I	0 - 2	>74	>74	65	42/40-45	A
Fill Over Madison II	0 - 2	>86	>86	See Codes	See Codes	NR

SUITABILITY CODE DESCRIPTIONS

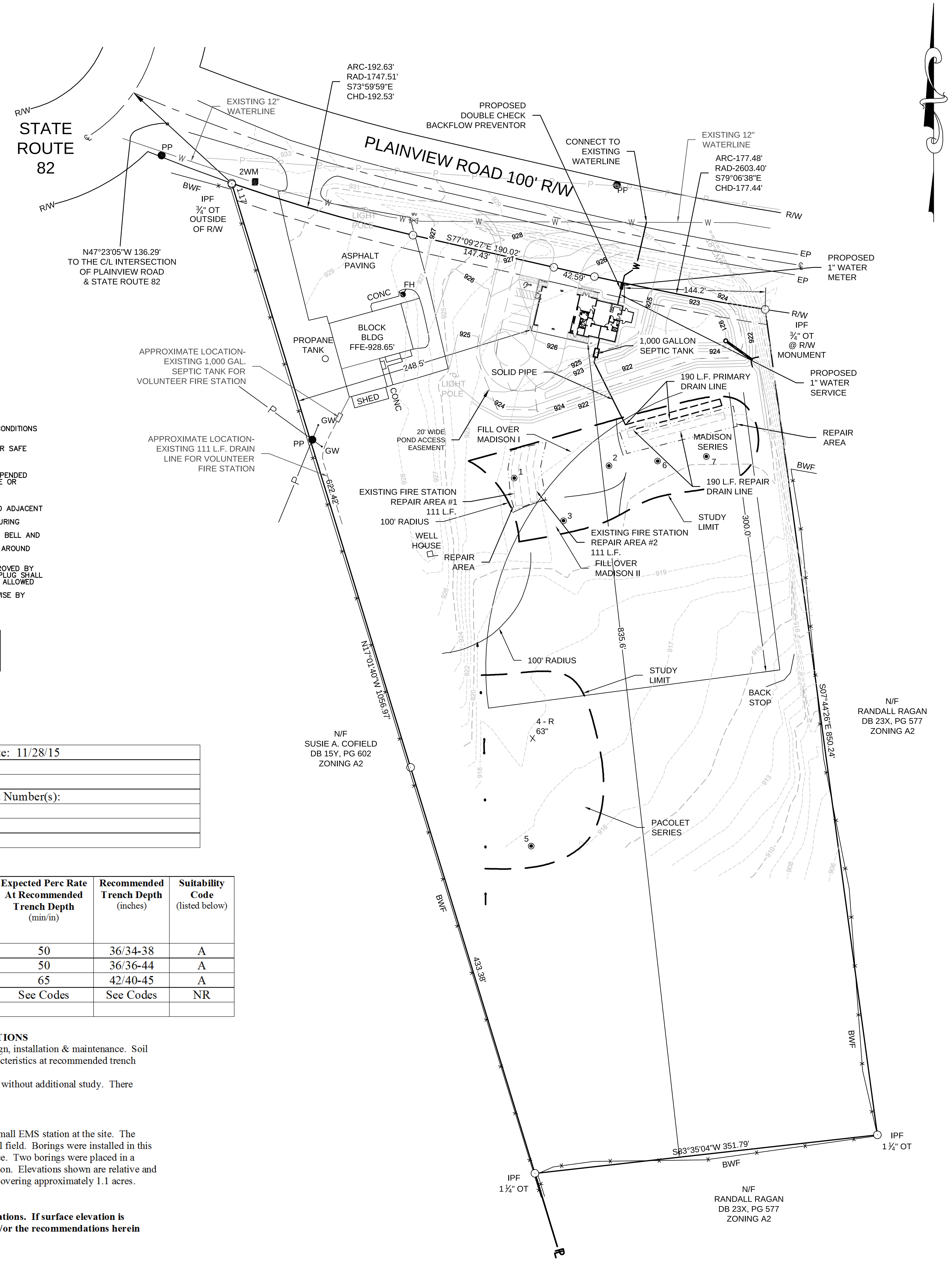
A – Soil should be suitable for installation of an on site system with proper design, installation & maintenance. Soil classified as Fill Over Madison I had ≤ 24" of surficial fill. However, soil characteristics at recommended trench depth were such that soil should be suitable.
NR – This soil had > 24" fill at the surface. Use of this soil is not recommended without additional study. There appears to be plenty of usable soil at the site without utilizing this soil.

FIELD NOTES

Property covers many acres, but client indicated Jackson County is planning a small EMS station at the site. The client indicated a desired installation in the area presently occupied by a baseball field. Borings were installed in this area, but a portion of the area was found to have relatively thick fill at the surface. Two borings were placed in a second study area (to locate additional suitable soil) south of the preferred location. Elevations shown are relative and contour lines are approximate. Seven borings were installed in the study areas covering approximately 1.1 acres. Seven borings in an area this size meets Level III boring density requirements.

.

The recommended depths and perc rates are based on current surface elevations. If surface elevation is significantly altered, the depths and/or rates would have to be adjusted and/or the recommendations herein may not be valid.



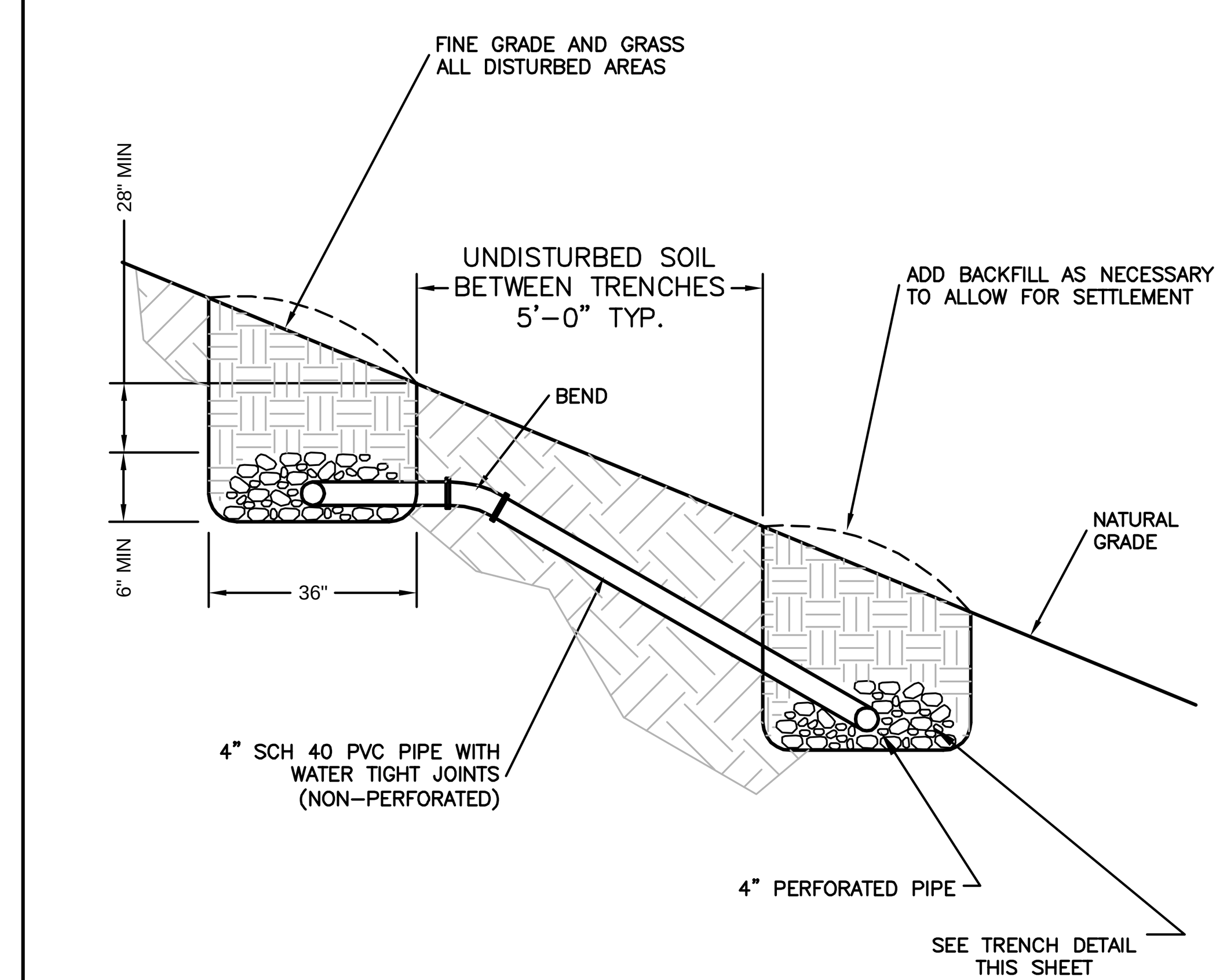
UTILITY INSTALLATION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ASSURING HIS WORK AREA IS ALWAYS MAINTAINED IN A SAFE CONDITION AND CAUSES NO SOURCE OF POTENTIAL DAMAGE TO ANY NEARBY PROPERTY. THIS INCLUDES BUT IS NOT LIMITED TO HIS PLACING BARRIERS THAT BOTH PROTECT THE WORK AREA FROM UNAUTHORIZED ACCESS AND PROTECT ADJACENT PROPERTY FROM DAMAGE. PLACE ANY REQUIRED EROSION CONTROL, SHEETING, SHORING, BRACING AND/OR SIMILAR APPURTENANCES - AS MAY BE NEEDED. PROTECT, SUPPORT AND/OR UNDERPIN ANY ADJACENT UTILITIES DISCOVERED. ASSURE THAT TESTED TRENCH RE-COMPACTION OCCURS IN MAXIMUM 8" LIFTS AS ANY PROTECTION APPURTENANCE IS RAISED OUT OF TRENCHING IN SIMILAR INCREMENTS.
2. WHERE SEWER PIPELINES ARE LOCATED IN OR ACROSS STREAM BEDS OR DRAINAGE DITCHES, CONTRACTOR SHALL DIVERT STREAM FLOW AND DEWATER EACH SECTION AS WORK PROGRESSES. DO NOT ALLOW WATER TO RUN OR STAND IN TRENCH WHILE PIPE LAYING IS IN PROGRESS, BEFORE THE JOINTS ARE COMPLETELY SET, OR BEFORE TRENCH HAS BEEN BACKFILLED. CONTRACTOR AT NO TIME SHALL OPEN UP MORE TRENCH THAN HIS AVAILABLE PUMP FACILITIES ARE ABLE TO DEWATER.
3. ADJACENT TO OPEN TRENCHES, ASSURE THAT NO MATERIALS ARE DEPOSITED THAT MAY POSE A RISK TO THE WORK AND/OR ADJACENT PROPERTY - ESPECIALLY DURING HIGH RISK RAIN AND/OR SURFACE WASH.
4. START BACKFILLING AND COMPACTION OF TRENCH(ES) IMMEDIATELY AFTER THE SECURE BEDDING OF PROPERLY SLOPED PIPING.
5. EXCAVATE NO MORE TRENCH THAN CAN BE STABILIZED DURING ANY POTENTIAL PRECIPITATION EVENT.
6. PERFORM ALL WORK TO CAUSE THE LEAST POSSIBLE INCONVENIENCE TO THE PUBLIC.
7. AT NO COST TO OWNER, REPAIR ANY PIPING NOT PROPERLY BEDDED & SLOPED UNIFORMLY AND/OR DAMAGES CAUSED BY UTILITY TRENCHING AND/OR INSTALLATION.

* EACH BUILDING AND ITS LOCATION RELATIVE TO PROPERTY LINES AND OTHER STRUCTURES SHALL COMPLY WITH THE 2006 INTERNATIONAL BUILDING CODE WITH GA STATE AMENDMENTS (IBC) WITH REGARDS TO THE HEIGHT AND AREA REQUIREMENTS OF IBC TABLE 503 AND THE FIRE RESISTANCE AND HORIZONTAL SEPARATION REQUIREMENTS OF IBC TABLES 601 AND 602 BASED ON OCCUPANCY GROUP CLASSIFICATION AND TYPE OF CONSTRUCTION.

* THIS SITE PLAN INDICATES POTABLE WATER SERVICE LINES AND SANITARY SEWER LATERALS. GEORGIA STATE LAW REQUIRES THIS WORK TO BE INSTALLED BY A GEORGIA LICENSED MASTER PLUMBER. THIS WORK REQUIRES A SEPARATE SITE PLUMBING PERMIT WHICH SHALL BE OBTAINED FROM JACKSON COUNTY BUILDING PERMITS.

ALL WORK TO BE PERFORMED ACCORDING TO THE JACKSON COUNTY CODE OF ORDINANCES, CURRENT EDITION. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS, IF DEEMED NECESSARY BY INSPECTOR.



DEPTH OF DRAIN LINE TRENCH SHALL BE MINIMUM OF 34 INCHES AND MAXIMUM OF 38 INCHES.

DRAIN FIELD SECTION CONVENTIONAL	Engineering Management Associates, Inc. STD–NO

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

GRAPHIC SCALE
0 30 60 120 180
(IN FEET)
1 inch = 60 ft.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

UTILITY PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

C5

SHEET

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 3,500 S.F. EMS STATION ALONG WITH ASSOCIATED DRIVEWAYS, PARKING, SIDEWALKS, STORM DRAINAGE STRUCTURES, AND UTILITIES. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF PLAINVIEW ROAD AT THE INTERSECTION OF PLAINVIEW ROAD AND S.R. 82 WITHIN THE LIMITS OF UNINCORPORATED JACKSON COUNTY. THE TOTAL SITE AREA IS 9.21 ACRES. THE TOTAL AREA TO BE DISTURBED IS 1.50 ACRES.

DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY

- INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES
- ROUGH GRADING OF THE SITE WHERE THE PROPOSED IMPROVEMENTS ARE LOCATED
- INSTALLATION OF STORM DRAINAGE STRUCTURES, WATER, SANITARY SEWER, ELECTRIC, AND GAS UTILITIES
- GRADING AND STABILIZATION OF THE BUILDING PAD
- CONSTRUCTION AND STABILIZATION OF THE ACCESS DRIVEWAY AND PARKING LOT
- FINAL GRADING OF THE YARD AREAS
- ESTABLISHING TEMPORARY AND PERMANENT VEGEATION

AREAS WHERE DISTURBANCE OCCURS WILL INCLUDE THE PROPOSED BUILDING AND PARKING LOT AND ALL AREAS OUTSIDE OF THE PERMANENT STRUCTURES TO BE RESTORED WITH PERMANENT GRASS VEGETATION. A PROPOSED DETENTION POND WILL BE USED TO HANDLE THE INCREASE IN STORMWATER RUNOFF DUE TO THE PROJECT SO THAT DOWNSTREAM PROPERTIES ARE NOT ADVERSELY AFFECTED.

SEE SHEET EC-C FOR PROJECT LOCATION, IDENTIFICATION OF STATE WATERS AND RECEIVING WATERS, IDENTIFICATION AND ACREAGE OF ONSITE AND OFF SITE DRAINAGE BASINS, AND STORM WATER SAMPLING LOCATIONS.

STORM-DRAIN PIPE AND WEIR VELOCITIES:

APPROPRIATELY SIZED RIPRAP APRONS WILL BE PLACED AT THE DISCHARGE END OF ALL PROPOSED STORM-DRAIN PIPES.

SEDIMENT STORAGE:

CONSTRUCTION ACTIVITY INCLUDES GRADING, INSTALLATION OF A DETENTION POND AND ASSOCIATED DRAINAGE STRUCTURES,CONSTRUCTION OF ASPHALT PARKING, CONSTRUCTION OF A PROPOSED BUILDING, AND MAINTAINING EROSION CONTROL MEASURES AND GRASSING OF ALL DISTURBED AREAS. GIVEN THE NATURE OF THE PROJECT, THE PROPOSED DETENTION POND WILL BE USED AS A TEMPORARY SEDIMENT BASIN DURING THE CONSTRUCTION ACTIVITIES. WHEN ALL CONSTRUCTION ACTIVITIES ARE COMPLETE AND PRIOR TO FINAL STABILIZATION OF THE SITE, THE ACCUMULATED SILT WILL BE REMOVED FROM THE TEMPORARY SEDIMENT POND AND SPREAD EVENLY IN THE DISTURBED AREAS ADJACENT TO THE POND. ONCE THE ACCUMULATED SILT IS REMOVED FROM THE POND, THE TEMPORARY SEDIMENT POND WILL BE CONVERTED TO A PERMANENT STORMWATER MANAGEMENT POND. SILT FENCE AND TEMPORARY & PERMANENT GRASSING WILL ALSO BE USED FOR SEDIMENT CONTROL FOR THE PROJECT.

DISTURBED AREA TOTAL = 1.50 ACRES

REQUIRED VOLUME OF SEDIMENT STORAGE: (1.50 ACRES)(67 CUBIC YARDS/ACRE) =100.5 C.Y.

STORAGE PROVIDED:
TEMPORARY SEDIMENT POND: MINIMUM OF 100.5 C.Y. (SEE Rt CALCULATIONS THIS PAGE)

TOTAL AMOUNT OF ON SITE STORAGE: 100.5 C.Y.

POLLUTION PREVENTION PRACTICES & REMEDIATION OF PETROLEUM SPILLS AND LEAKS:

THE CONTRACTOR IS PROHIBITED FROM STORING OIL OR ANY HAZARDOUS WASTE MATERIAL AT THE CONSTRUCTION SITE. CONSTRUCTION EQUIPMENT AND VEHICLES ARE THE ONLY ANTICIPATED SOURCE OF POTENTIAL POLLUTION EXPECTED WITHIN THE CONSTRUCTION AREA FOR THIS PROJECT.

PREVENTION OF SPILLS AND LEAKS-

THE CONTRACTOR IS RESPONSIBLE FOR MINIMIZING THE POTENTIAL OF POLLUTION FROM EQUIPMENT AND VEHICLE LEAKS OR SPILLS REACHING ANY RECEIVING WATERS. AT A MINIMUM, THE FOLLOWING PRACTICES SHALL BE IMPLEMENTED:

REGULARLY INSPECT ONSITE VEHICLES AND EQUIPMENT FOR LEAKS AND REPAIR IMMEDIATELY.

CHECK INCOMING VEHICLES AND EQUIPMENT FOR LEAKING OIL AND FLUIDS. DO NOT ALLOW LEAKING VEHICLES OR EQUIPMENT ONSITE.

IF FUELING MUST OCCUR ONSITE, USE LOCATIONS AWAY FROM DRAINAGE COURSES TO PREVENT THE RUNON OF STORMWATER AND THE RUNOFF OF SPILLS. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN, WHEN FUELING TO CATCH SPILLS/LEAKS.

IF MAINTENANCE MUST OCCUR ONSITE, USE A DESIGNATED AREA AND SECONDARY CONTAINMENT, LOCATED AWAY FROM DRAINAGE COURSES, TO PREVENT THE RUNON OF STORMWATER AND THE RUNOFF OF SPILLS.

ALWAYS USE SECONDARY CONTAINMENT, SUCH AS DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS OR LEAKS WHEN REMOVING OR CHANGING FLUIDS. PROMPTLY TRANSFER USED FLUIDS TO PROPER WASTE OR RECYCLING CONTAINERS. IMMEDIATELY REMOVE FROM SITE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TO THE EXTENT THAT THE WORK CAN BE ACCOMPLISHED SAFELY, SPILLS OF OIL OR PETROLEUM PRODUCTS SHOULD BE CONTAINED AND CLEANED UP IMMEDIATELY. SPILLS SHOULD BE COVERED AND PROTECTED FROM STORMWATER RUNON DURING RAINFALL TO THE EXTENT THAT IT DOESN'T COMPROMISE CLEAN UP ACTIVITIES.

CLEANUP OF PETROLEUM LEAKS OR SPILLS-

CLEAN UP LEAKS AND SPILLS IMMEDIATELY. NEVER HOSE DOWN OR BURY SPILLS. REMOVE CONTAMINATED SOILS AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

MINOR SPILLS
CONTAIN THE SPREAD OF THE SPILL, REMOVE CONTAMINATED SOILS, AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SEMI-SIGNIFICANT SPILLS
SPILLS SHOULD BE CLEANED UP IMMEDIATELY WITH THE AID OF AS MANY ONSITE PERSONNEL AS NECESSARY. IMMEDIATELY CONTAIN THE SPILL BY CONSTRUCTING AN EARTHEN DIKE. DIG UP AND PROPERLY DISPOSE OF CONTAMINATED SOIL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SIGNIFICANT SPILLS
FOR SIGNIFICANT SPILLS THAT CANNOT BE CONTROLLED BY PERSONNEL IN THE IMMEDIATE VICINITY, THE FOLLOWING STEPS SHOULD BE TAKEN:

NOTIFY THE LOCAL EMERGENCY RESPONSE BY CONTACTING 911. IN ADDITION TO 911, THE CONTRACTOR WILL NOTIFY THE PROPER 24 HOUR EMERGENCY CONTACT. THE SERVICES OF A SPILLS CONTRACTOR OR A HAZ-MAT TEAM SHOULD BE OBTAINED IMMEDIATELY. CONSTRUCTION PERSONNEL SHOULD NOT ATTEMPT TO CLEAN UP UNTIL THE APPROPRIATE AND QUALIFIED STAFFS HAVE ARRIVED AT THE JOB SITE.

THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE CONTRACTOR IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 AND 40 CFR 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.

POST CONSTRUCTION POLLUTION CONTROL MEASURES:

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 3,500 S.F. EMS FACILITY ALONG WITH ASSOCIATED DRIVEWAYS, PARKING, SIDEWALKS, STORM DRAINAGE STRUCTURES, AND UTILITIES. THE AREAS OUTSIDE OF PERMANENT STRUCTURES WILL BE RE-ESTABLISHED WITH PERMANENT VEGETATION AS SOON AS POSSIBLE. A PROPOSED DETENTION POND WILL BE USED TO CONTROL INCREASES IN THE POST DEVELOPED RUNOFF. THEREFORE, THE PROPOSED DETENTION POND ALONG WITH PERMANENT GRASS VEGETATION ON DISTURBED AREAS WILL HELP CONTROL POST CONSTRUCTION RUNOFF AND POLLUTION.

THE CONTRACTOR SHALL ENSURE SATISFACTORY GROWTH AND COVERAGE OF PERMANENT GRASS VEGETATION ON DISTURBED AREAS. GRASSED AREAS WILL BE CONSIDERED ACCEPTABLE WHEN PERMANENT GRASS VEGETATION HAS REACHED A POINT OF MATURITY, COVERAGE IS AT LEAST 95% OF THE TOTAL AREA WITH NO BARE SPOTS EXCEEDING ONE SQUARE FOOT, AND GROUND SURFACE IS FULLY STABILIZED AGAINST EROSION. SILT FENCE AND CHECKS DAMS INSTALLED DURING THE CLEARING PHASE WILL BE KEPT IN PLACE AND MAINTAINED UNTIL PERMANENT VEGETATION HAS BEEN EFFECTIVELY ESTABLISHED AND THE CONTRACTOR HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER.

WASTE MATERIALS:

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT BY A SECTION 404 PERMIT. ANY WASTE MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE COLLECTED AND STORED IN A SECURE, LIDDED CONTAINER. AT THE END OF EACH WORK DAY WASTE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF PROPERLY.

IF EXISTING SANITARY FACILITIES ARE UNAVAILABLE, PORTABLE SANITARY FACILITIES SHALL BE PROVIDED. CONTRACTOR SHALL PAY THE COST FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY SANITARY FACILITIES. UNITS SHALL BE CLEANED AND SANITARY WASTE SHALL BE COLLECTED A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER AND IN COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

UNITS SHALL BE LOCATED AT SUCH PLACES AS APPROVED BY THE OWNER AND WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE.

INSPECTION OF BMP'S:

CONTRACTOR SHALL NOTIFY THE ES&PC DESIGN PROFESSIONAL WHEN INITIAL CONSTRUCTION ACTIVITY IS TO BEGIN. THE ES&PC DESIGN PROFESSIONAL WILL INSPECT THE INSTALLATION OF BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.

ES&PC PLAN AMENDMENTS/REVISIONS:

ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE ES&PC PLAN DESIGN PROFESSIONAL.

CONCRETE WASHDOWN:

CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, DRUMS, THE REAR OF VEHICLES, AND/OR ANY OTHER EQUIPMENT IS PROHIBITED ON THE PROJECT SITE.

STATE WATERS:
THE PROJECT IMPROVEMENTS ARE NOT LOCATED WITHIN 200 FT OF THE UNNAMED TRIBUTARY TO STOCKTON CREEK.

STREAM BUFFER INFORMATION:
THE PROJECT IMPROVEMENTS ARE NOT LOCATED WITHIN 200 FT OF THE UNNAMED TRIBUTARY TO STOCKTON CREEK. THERE ARE NO STATE WATERS BUFFERS ONSITE.

NO OTHER ACTIVITIES WILL BE PERMITTED IN THE 25 FT STREAM BUFFER ALONG THE BANKS OF ANY STATE WATERS WITHOUT FIRST REQUIRING THE NECESSARY VARIANCES AND PERMITS.

EXISTING LAND USE:
THE EXISTING LANDS AT THE PROJECT SITE CONSIST OF AN EXISTING FIRE STATION AND ASPHALT PARKING AND LAND PREVIOUSLY GRADED TO CREATE A LEVEL PAD FOR A BALL FIELD. THE AREA HAS EXISTING GRASS ESTABLISHED.

GPS COORDINATES & DISTRICT & ADJACENT SITES & CRITICAL AREAS INFORMATION:

PROJECT GPS COORDINATES (CONSTRUCTION EXIT) **LATITUDE - 34.22°N LONGITUDE - 83.63°W**
THIS PROJECT IS LOCATED IN G.M.D. 455, JACKSON COUNTY, GEORGIA. THE SITE IS SURROUNDED BY LARGE AGRICULTURAL TRACTS. THE PROPERTY TO THE EAST IS A LARGE TRACT WITH OPEN FIELDS. THE PROPERTY TO THE WEST IS A LARGE TRACT WITH OPEN FIELDS. THE PROPERTY TO THE SOUTH IS PART OF THE LARGE TRACT TO THE EAST AND IT IS WOODED. THE PROPERTY TO THE NORTH AND ACROSS PLAINVIEW ROAD IS A LARGE TRACT WITH OPEN FIELDS.

PRIMARY PERMITTEE:

THIS PROJECT IS A MUNICIPAL PROJECT FOR THE JACKSON COUNTY GOVERNMENT, IN JACKSON COUNTY, GEORGIA. THE COUNTY ASSUMES ALL RESPONSIBILITIES OF THE PRIMARY PERMITTEE.

EROSION, SEDIMENTATION AND POLLUTION CONTROL INSPECTIONS AND REPORTING:

SEE SHEET EC-B OF THE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN FOR INSPECTION AND REPORTING REQUIREMENTS.

LEGEND: VEGETATIVE EROSION CONTROL MEASURES

MULCHING Ds1

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

MATERIALS AND APPLICATION RATES

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.

TEMPORARY GRASSING Ds2

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE GRASS, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER WILL BE OMITTED. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY EXISTING SITE CONDITIONS.

SPECIES	RATE	PLANTING DATE
RYE	168#/AC.	MID AUGUST THRU DECEMBER
BROWNTOP MILLET	40#/AC.	APRIL THRU MID-JULY
WHEAT	180#/AC.	OCTOBER THRU DECEMBER

PERMANENT GRASSING: Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING AND FERTILIZATION, SEEDING, AND MULCHING.

THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND - LIME AT A RATE OF 2000#/AC AND FERTILIZER AT THE RATES LISTED BELOW PER SPECIES PLANTED.

FERTILIZER REQUIREMENTS

SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
COOL SEASON GRASSES				
TALL FESCUE	FIRST	6-12-12	1500 LBS./AC.	50-100 LBS./AC.
	SECOND	6-12-12	1000 LBS./AC.	-
	MAINTENANCE	10-10-10	400 LBS./AC.	30 LBS./AC.
WARM SEASON GRASSES				
COMMON BERMUDA (HULLED)	FIRST	6-12-12	1500 LBS./AC.	50-100 LBS./AC.
COMMON BERMUDA (UNHULLED)	SECOND	6-12-12	800 LBS./AC.	50-100 LBS./AC.
WEEPING LOVEGRASS	MAINTENANCE	10-10-10	400 LBS.AC.	30 LBS./AC.

THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. SEEDING SHALL BE DONE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION, WEATHER PERMITTING. SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW.

SEEDING REQUIREMENTS

SPECIES	RATE	PLANTING DATE
TALL FESCUE	50#/AC.	MID AUGUST THRU OCTOBER
COMMON BERMUDA (HULLED)	10#/AC.	MARCH THRU JUNE
COMMON BERMUDA (UNHULLED)	10#/AC.	OCTOBER THRU FEBRUARY
WEEPING LOVEGRASS	4#/AC.	MARCH THRU MAY

MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA AND ACHIEVE 75% TO 100% SOIL COVER.

MULCH MATERIALS AND APPLICATION RATES

1. DRY STRAW OR HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

OWNER:

JACKSON COUNTY GOVERNMENT
67 ATHENS STREET
JEFFERSON, GA 30549

24 HOUR CONTACT:

MR. KEVIN POE, COUNTY MANAGER
JACKSON COUNTY GOVERNMENT
67 ATHENS STREET
JEFFERSON, GA 30549
PHONE: (706) 367-6314
FAX: (706) 367-9083

EROSION CONTROL NOTES:

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.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO 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 SOURCE.

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

THE EXTENT AND LOCATION OF EROSION CONTROL MEASURES SHOWN (SHEET EC1-EC3) ARE THE ESTIMATED REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO THE ACTUAL FIELD CONDITIONS, AND WILL BE INSTALLED AT THE OWNER/DEVELOPERS EXPENSE WHEN DIRECTED BY THE PROPER GOVERNING AUTHORITY.

ANTICIPATED ACTIVITY SCHEDULE:
START DATE: FEBRUARY1, 2016
END DATE: JUNE 1, 2016

ACTIVITY — 2016: MONTH 1 (1 2 3 4), MONTH 2 (1 2 3 4), MONTH 3 (1 2 3 4), MONTH 4 (1 2 3 4)

- EROSION CONTROL INSTALLATION OF SILT FENCE, CONSTRUCTION EXIT, TEMPORARY SEDIMENT POND, AND TEMPORARY MULCHING — Co, Sd1–NS, Ds1, Rt
- ROUGH GRADING OF THE SITE, INSTALLATION OF STORM DRAIN STRUCTURES AND ASSOCIATED PIPING AND UTILITIES
- FINAL GRADING OF THE SITE AND BUILDING PAD AREA, CONSTRUCTION OF THE PARKING AREA AND DRIVEWAYS.
- INSTALLATION OF TEMPORARY AND PERMANENT GRASSING IN AREAS WHERE SITE IMPROVEMENTS ARE COMPLETE AND IN DISTURBED AREAS LEFT EXPOSED FOR GREATER THAN 14 DAYS — Ds2, Ds3, St
- MAINTAIN INSTALLED EROSION CONTROL BMPS UNTIL PERMANENT VEGETATION IS ESTABLISHED AND EFFECTIVE CONTROL OF EROSION HAS BEEN ACHIEVED IN DISTURBED AREAS — Co, Sd1–NS, Ds2, Ds3

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001."

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

KENNETH PETERS **DATE**
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

OWNER/AGENT **DATE**

IMPAIRED STREAM REQUIREMENTS, TMDL PLANS, AND ALTERNATIVE BMP NOTES:

1. THIS PROJECT IS LOCATED WITHIN ONE LINEAR MILE AND WITHIN THE SAME WATERSHED AS STOCKTON CREEK. STOCKTON CREEK IS NOT LISTED ON GEORGIA'S 2012 "305(b)/303(d) LIST DOCUMENTS".
2. ALTERNATIVE BMPS WILL NOT BE INSTALLED DURING THIS PROJECT.

SOIL TABLE

SYMBOL	NAME	SLOPE	PERMEABILITY (IN/HR)	DEPTH (IN)	SOIL STRUCTURE	TEXTURE	ERODIBILITY	DRAINAGE	K FACTOR	T FACTOR
CeB	Cecil Sandy Loam	2% TO 6%	2.0 TO 6.0	0–75	MODERATE MEDIUM & COARSE GRANULAR	SANDY LOAM	SLIGHT	WELL DRAINED	0.17	5
PuD2	Pacolet Soil	10% TO 15%	0.6 TO 2.0	0–70	MODERATE MEDIUM & COARSE GRANULAR	CLAY LOAM	SEVERE	WELL DRAINED	0.24	5
CfC2	Cecil Sandy Clay Loam	6% TO 10%	2.0 TO 6.0	0–75	MODERATE MEDIUM & COARSE GRANULAR	SANDY CLAY LOAM	SEVERE	WELL DRAINED	0.15	5

RIPRAP APRON SUMMARY

UPSTREAM PIPE ID	PIPE DIAMETER (d)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION	APRON LENGTH (La)	WIDTH UPSTREAM (W1)	WIDTH DOWNSTREAM (W=Do+0.4La)	RIP RAP SIZE (d50)	RIP RAP DEPTH (in)	RIP RAP TYPE
P1	18"	11.2	6.56	MAX.	12'	4.5'	6.3'	3"	12"	NSA R-3

Rt

STORAGE CALCULATIONS

1. REQUIRED STORMWATER STORAGE = 253 C.Y. (AS DETERMINED BY LOCAL ORDINANCE)
2. REQUIRED SEDIMENT STORAGE = 100.5 C.Y. (67 CY/AC * 1.50 AC. DISTURBED AREA - TOTAL AREA DRAINING TO POND)
3. TOTAL REQUIRED STORAGE = 253 + 100.5 = 353.5 C,Y.
4. AVAILABLE STORAGE = 596 C.Y.
5. IS THE AVAILABLE STORAGE (4) GREATER THAN THE TOTAL REQUIRED STORAGE (3)?
   _X_ YES ______ NO
6. IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   ______ RAISE THE INVERT OF THE OUTLET STRUCTURE _______ INCHES
   ______ UNDERCUT THE POND _________ FEET
   ______ OTHER ____________________________
7. CLEAN OUT ELEVATION = 920.90 FT (ELEVATION CORRESPONDING TO 22 CY/AC * 1.50 AC DISTURBED AREA)
8. IS THE LENGTH - WIDTH RATIO 2:1 OR GREATER?
   _X_ YES _____ NO
9. IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
   __________ BAFFLES (TYPE OF BAFFLE: __________)
   __________ OTHER ____________________________

NOTE THE CMP DIAMETER AND HEIGHT IF A HALF - ROUND CMP RETROFIT IS TO BE USED.
DIAMETER = 30 INCHES HEIGHT = 1.6 FEET

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL NOTES & LEGEND

SHEET TITLE

DESIGN BY KLP | DRAWN BY KLP | CHECKED BY DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15 DATE
15037 JOB NUMBER
z:\projects FILE LOCATION

EC-A

SHEET

INSPECTION REQUIREMENTS

1) Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

2) Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

3) Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.A.(4). These inspections must be conducted until a Notice of Termination is submitted.

4) Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving waters(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

5) Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

6) A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

SAMPLING REQUIREMENTS

1) Sampling shall be performed at the locations indicated on the USGS topographic map, see Sheet EC-C of the construction plans.

2) Analytical methods used to collect and analyze the samples and quality control/quality assurance procedures shall be in accordance with methodology and test procedures established by 40 CFR Part 136, the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and any other guidance documents that may be prepared by EPD.

3) Unnamed Tributary to Stockton Creek is the only state and receiving water located down stream of this project (See USGS Topographic Map, Sheet EC-C of the construction plans for locations of receiving waters and sampling sites). The unnamed tributary to Stockton Creek is a warm water stream.

State and Receiving Water 1: Unnamed Tributary to Stockton Creek

Storm water runoff from areas of construction within the watershed of this project is conveyed toward the Unnamed Tributary to Stockton Creek after being discharged from the stormwater management facility as sheet flow and shallow concentrated flow. The unnamed tributary to Stockton Creek flows east away from the site. Sampling Point A1 will be the outfall to the pond. The site area is 9.21 acres and the surface water drainage area is 0.02 square miles. Therefore, the NTU value for the outfall at sample point A1 is not to exceed 75 (obtained from GAR 100001 Part III.D.5 and Appendix B).

SAMPLE TYPE

All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

1) Sample containers should be labeled prior to collecting the samples.

2) Samples should be well mixed before transferring to a secondary container.

3) Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

4) Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

5) Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

SAMPLING POINTS

1) For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

   a) The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

   b) The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

   c) Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

   d) Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

   e) The sampling container should be held so that the opening faces upstream.

   f) The samples should be kept free from floating debris.

   g) Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

   h) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3 or III.D.4, whichever is applicable.

SAMPLING FREQUENCY

1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

3) Sampling by the permittee shall occur for the following qualifying events:
   a) For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

   b) In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

   c) At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

   d) Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

   e) Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

   *Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

NON-STORM WATER DISCHARGES

Except for flows from firefighting activities, sources of non-storm water listed in Part III.A.2 of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

REPORTING

1) The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2) All sampling reports shall include the following information:
   a. The rainfall amount, date, exact place and time of sampling or measurements;
   b. The name(s) of the certified personnel who performed the sampling and measurements;
   c. The date(s) analyses were performed;
   d. The time(s) analyses were initiated;
   e. The name(s) of the certified personnel who performed the analyses;
   f. References and written procedures, when available, for the analytical techniques or methods used;
   g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
   h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
   i. Certification statement that sampling was conducted as per the Plan.

3) All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI. If an electronic submittal is provided by EPD then the written correspondence may be submitted electronically; if required, a paper copy must also be submitted by return receipt certified mail or similar service.

RETENTION OF RECORDS

1) The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.
   a. A copy of all Notices of Intent submitted to EPD;
   b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
   c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5 of this permit;
   d. A copy of all sampling information, results, and reports required by this permit;
   e. A copy of all inspection reports generated in accordance with Part IV.D.4.a of this permit.
   f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2 of this permit; and
   g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of this permit.

2) Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_________ OCONEE RIVER SWCD

Project Name: NEW EMS STATION **Address: PLAINVIEW ROAD**

City/County: JACKSON COUNTY **Date on Plans: 12/01/15**

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N	No.	Item
EC-B		1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ECA-EC3		2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A		3	Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.* (A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
EC-A		4	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
EC-A		5	Provide the name, address and phone number of primary permittee.
EC-A		6	Note total and disturbed acreage of the project or phase under construction.
ECA,EC1		7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ECA-EC3		8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
EC-A		9	Description of the nature of construction activity.
EC-C		10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ECA,ECC		11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
EC-A		12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
EC-A		13	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
EC-A		14	Clearly note the statement that "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."*
EC-A		15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
EC-A		16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
EC-A		17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
EC-A		18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
EC-A		19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
EC-A		20	Clearly note statement that "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."
EC-A		21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
EC-A		22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
N/A		23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
EC-A		24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
EC-A		25	Provide BMPs for the remediation of all petroleum spills and leaks.
EC-A		26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
EC-A		27	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
EC-A		28	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
EC-B		29	Provide complete requirements of inspections and record keeping by the primary permittee.*
EC-B		30	Provide complete requirements of sampling frequency and reporting of sampling results.*
EC-B		31	Provide complete details for retention of records as per Part IV.F. of the permit.*
EC-B		32	Description of analytical methods to be used to collect and analyze the samples from each location.*
EC-B		33	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
ECA-ECC		34	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
EC1-EC3		35	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
EC1-EC3		36	Graphic scale and North arrow.
EC1-EC3		37	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: (see table below)
N/A		38	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A		39	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
N/A		40	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A		41	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
EC-C		42	Delineation and acreage of contributing drainage basins on the project site.
SEE ATTACHED		43	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.*
EC-C		44	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
EC-A		45	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
EC1-EC3		46	Soil series for the project site and their delineation.
EC1-EC3		47	The limits of disturbance for each phase of construction.
ECA,EC1		48	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permitees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasable, a written justification explaining this decision must be included in the plan.
EC1-EC3		49	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
D1		50	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ECA,EC1-EC3		51	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N

Effective January 1, 2016

IMPAIRED STREAM REQUIREMENTS, TMDL PLANS, AND ALTERNATIVE BMP NOTES:

1. STORM WATER FROM THIS PROJECT SITE WILL NOT DISCHARGE WITHIN ONE LINEAR MILE OF AN IMPAIRED STREAM ACCORDING TO THE 2012 305B/303D LIST OF IMPAIRED STREAMS. A TMDL IMPLEMENTATION PLAN HAS THEREFORE NOT BEEN WRITTEN, AND APPENDIX 1 DOES NOT APPLY TO THIS PROJECT.
2. ALTERNATIVE BMPS WILL NOT BE INSTALLED DURING THIS PROJECT.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS **DATE**
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL NOTES & CHECKLIST

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

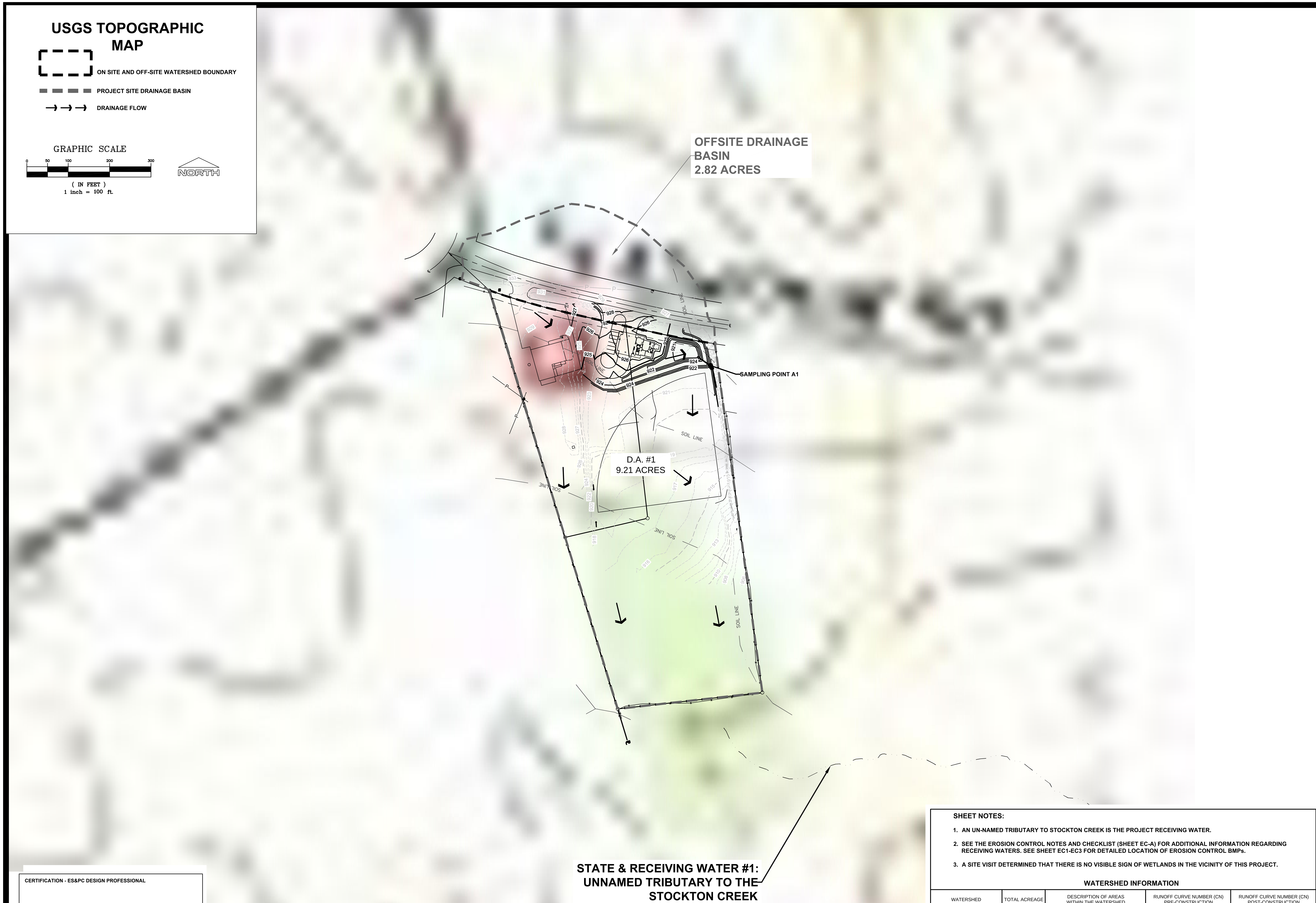
STAMP

12/01/15 DATE
15037 JOB NUMBER
z:\projects FILE LOCATION

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plainview EMS\Design Stage\15037-C-Base-01-12-16

EC-B

SHEET



SHEET NOTES:

1. AN UN-NAMED TRIBUTARY TO STOCKTON CREEK IS THE PROJECT RECEIVING WATER.
2. SEE THE EROSION CONTROL NOTES AND CHECKLIST (SHEET EC-A) FOR ADDITIONAL INFORMATION REGARDING RECEIVING WATERS. SEE SHEET EC1-EC3 FOR DETAILED LOCATION OF EROSION CONTROL BMPs.
3. A SITE VISIT DETERMINED THAT THERE IS NO VISIBLE SIGN OF WETLANDS IN THE VICINITY OF THIS PROJECT.

WATERSHED INFORMATION

WATERSHED	TOTAL ACREAGE	DESCRIPTION OF AREAS WITHIN THE WATERSHED	RUNOFF CURVE NUMBER (CN) PRE-CONSTRUCTION	RUNOFF CURVE NUMBER (CN) POST-CONSTRUCTION
WATERSHED A STATE & RECEIVING WATER #1 - UNNAMED TRIBUTARY TO STOCKTON CREEK	12.03	WOODED, AGRICULTURAL, MUNICIPAL	62	63

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS — DATE
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT NEW EMS STATION

LOCATED IN G.M.D. 455 JACKSON COUNTY, GEORGIA

PROJECT

DRAINAGE BASIN & RECEIVING WATERS PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15 DATE
15037 JOB NUMBER
z:\projects FILE LOCATION

EC-C

SHEET

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-EC-C

EROSION, SEDIMENTATION AND POLLUTION CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 3,500 S.F. EMS STATION ALONG WITH ASSOCIATED DRIVEWAYS, PARKING, SIDEWALKS, STORM DRAINAGE STRUCTURES, AND UTILITIES. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF PLAINVIEW ROAD AT THE INTERSECTION OF PLAINVIEW ROAD AND S.R. 82 WITHIN THE LIMITS OF UNINCORPORATED JACKSON COUNTY. THE TOTAL SITE AREA IS 9.21 ACRES. THE TOTAL AREA TO BE DISTURBED IS 1.50 ACRES.

ADJACENT PROPERTY

THE SITE IS SURROUNDED BY LARGE AGRICULTURAL TRACTS. THE PROPERTY TO THE EAST IS A LARGE TRACT WITH OPEN FIELDS. THE PROPERTY TO THE WEST IS A LARGE TRACT WITH OPEN FIELDS. THE PROPERTY TO THE SOUTH IS PART OF THE LARGE TRACT TO THE EAST AND IT IS WOODED. THE PROPERTY TO THE NORTH AND ACROSS PLAINVIEW ROAD IS A LARGE TRACT WITH OPEN FIELDS.

CRITICAL AREAS

CRITICAL AREAS ON THIS SITE ARE THE EXISTING CHANNEL LOCATED ALONG THE EASTERN SIDE OF THE SITE AND THE EXISTING BALL FIELD. THE CHANNEL CONVEYS WATER TO THE REAR OF THE PROPERTY.

EROSION CONTROL MEASURES

EROSION CONTROL MEASURES TO BE USED ON THIS SITE INCLUDE SILT FENCING, CONSTRUCTION EXIT, TEMPORARY GRASSING, AND PERMANENT GRASSING, STONE CHECK DAMS, RETROFIT, AND A RIP RAP APRON.

SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA TOTAL = 1.50 ACRES

REQUIRED VOLUME OF SEDIMENT STORAGE: (1.50) ACRES)(67 CUBIC YARDS/ACRES) = 100.5 C.Y.

STORAGE PROVIDED:

TEMPORARY SEDIMENT POND: MINIMUM OF 100.5 C.Y. (SEE Rt CALCULATIONS PAGE EC-A)

TOTAL AMOUNT OF ON SITE STORAGE: 100.5 C.Y.

CONTROLS

a) EROSION AND SEDIMENT CONTROLS.
   (1) STABILIZATION MEASURES - SEE ACTIVITY SCHEDULE.
   (2) STRUCTURAL PRACTICES. - SEE SEDIMENT AND EROSION CONTROL PLAN NOTES.
   (3) SEDIMENT STORAGE.

b) STORM WATER MANAGEMENT.
   (1) VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS OF ALL STORM DRAIN PIPES. (2) THE PROPOSED DETENTION POND WILL BE USED TO CONTROL THE QUANTITY OF THE POST CONSTRUCTION STORMWATER RUNOFF. THE MEASURES SHOULD PROTECT THE DOWNSTREAM WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED [e.g. NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OF THE RECEIVING WATER(S).]

c) OTHER CONTROLS.
   (1) WASTE DISPOSAL. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
   (2) OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDETHE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OF CONSTRUCTION ACTIVITY.
   (3) ALL PERMITTEES SHALL ENSURE AND DEMONSTRATE THAT THEIR PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
   (4) THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS AS APPROPRIATE.

PRE-DEVELOPED RUN OFF COEFFICIENT
MIX OF GRASSED AND WOODED AREAS W/ EXISTING FIRE STATION
= 9.21 acres CN=62

POST-DEVELOPMENT RUN OFF COEFFICIENT
MIX OF GRASSED AND WOODED AREAS W/ EXISTING & PROPOSED IMPROVEMENTS CN=63

EROSION CONTROL LEGEND

Symbol	Description
Sd1-NS	SILT FENCE TYPE 'S' — X —
Co	CONSTRUCTION EXIT/ENTRANCE
Rt	RETROFIT
Ss	SLOPE STABILIZATION
St	STORM DRAIN OUTLET PROTECTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
	DISTURBED LIMITS

UTILITY DISCLAIMER

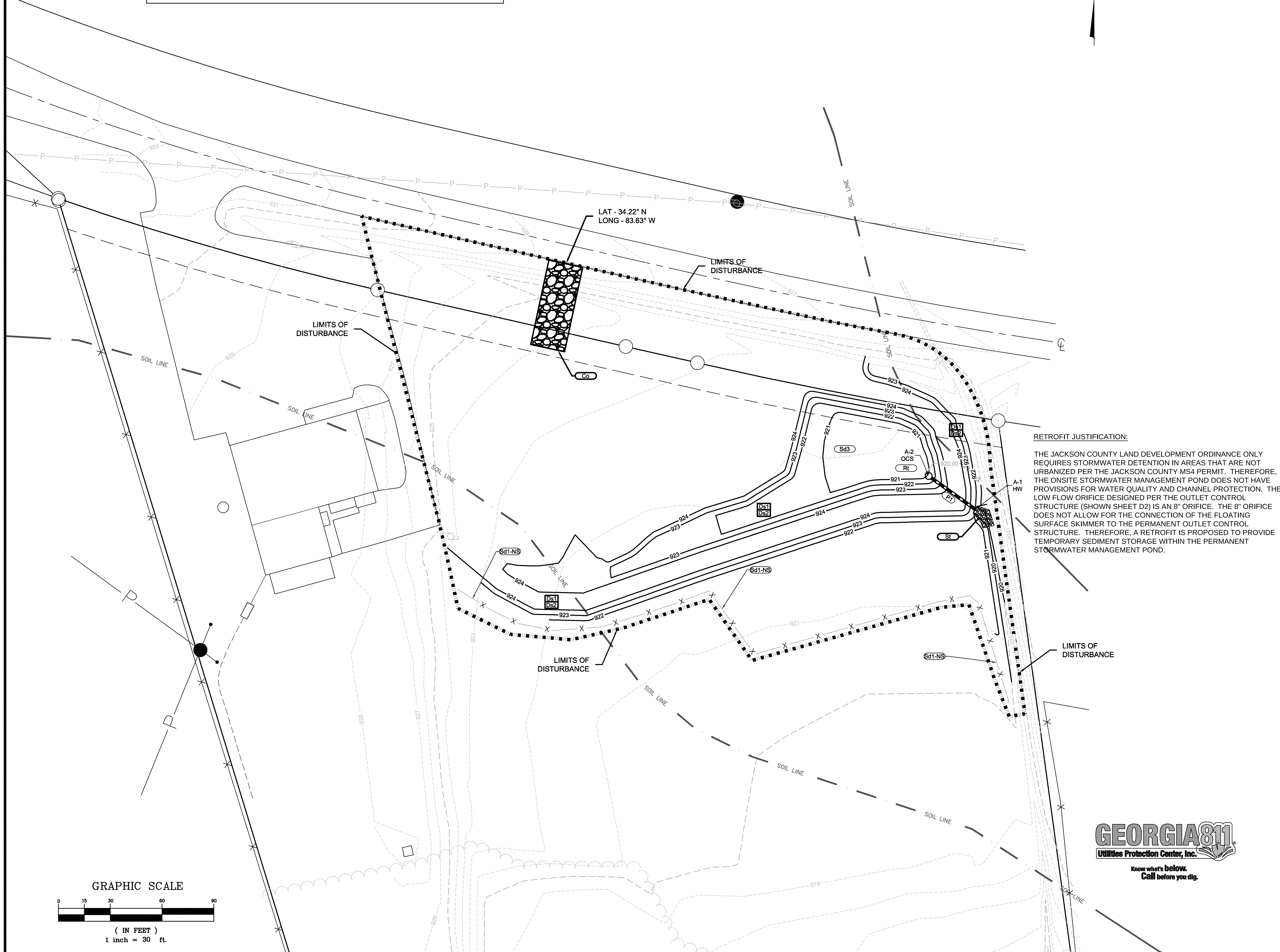
IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT UNDER THIS CONTRACT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS, AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION GIVEN ON THE DRAWINGS WITH REGARD TO EXISTING STRUCTURES, AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF ANY INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION, SAID STRUCTURES BEING INDICATED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. THE GIVING OF THIS INFORMATION UPON THE CONTRACT DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL PIPES, CONDUITS, AND OTHER STRUCTURES. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO EXCAVATION SO AS TO PREVENT ANY DAMAGE TO THOSE SERVICES OR OTHER UTILITIES. ANY SUCH DAMAGES MUST BE REPAIRED WITHOUT DELAY AND THE COST OF SUCH REPAIRS MUST BE BORNE BY THE CONTRACTOR.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS DATE
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

EROSION CONTROL SHEET NOTES:

1. **MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION MEASURES SHALL BE USED WHEN GRADING AND DRAINAGE INSTALLATION ARE COMPLETE AND SURROUNDING CONSTRUCTION AREA HAS BEEN CLEANED UP, AND PREPARATION OF THE SUBSOIL IS COMPLETE.**
2. **ALL CONSTRUCTION VEHICLES LEAVING THE CONSTRUCTION AREA SHALL HAVE MUD CLEANED FROM THEIR TIRES BEFORE LEAVING THE AREA TO PROTECT PUBLIC STREETS FROM THE TRANSPORTATION OF SEDIMENT FROM THE SITE.**
3. **THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST ON AND NEAR THE WORK WHEN DUST IS CAUSED BY THE OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL THOROUGHLY MOISTEN ALL SURFACES AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF WORK ON THE SITE.**
4. **TOTAL PROJECT AREA = 9.21 ACRES. TOTAL DISTURBED AREA = 1.50 ACRES.**
5. **HEIGHT (*) PER DETAIL Sd1-NS, SHEET D1 IS 28". THEREFORE, THE TOTAL FABRIC LENGTH IS 36".**



RETROFIT JUSTIFICATION:

THE JACKSON COUNTY LAND DEVELOPMENT ORDINANCE ONLY REQUIRES STORMWATER DETENTION IN AREAS THAT ARE NOT URBANIZED PER THE JACKSON COUNTY MS4 PERMIT. THEREFORE, THE ONSITE STORMWATER MANAGEMENT POND DOES NOT HAVE PROVISIONS FOR WATER QUALITY AND CHANNEL PROTECTION. THE LOW FLOW ORIFICE DESIGNED PER THE OUTLET CONTROL STRUCTURE (SHOWN SHEET D2) IS AN 8" ORIFICE. THE 8" ORIFICE DOES NOT ALLOW FOR THE CONNECTION OF THE FLOATING SURFACE SKIMMER TO THE PERMANENT OUTLET CONTROL STRUCTURE. THEREFORE, A RETROFIT IS PROPOSED TO PROVIDE TEMPORARY SEDIMENT STORAGE WITHIN THE PERMANENT STORMWATER MANAGEMENT POND.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.

GEORGIA811
Utilities Protection Center, Inc.
Know what's **below.**
Call before you dig.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL PLAN
INITIAL PHASE

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

EC1

SHEET

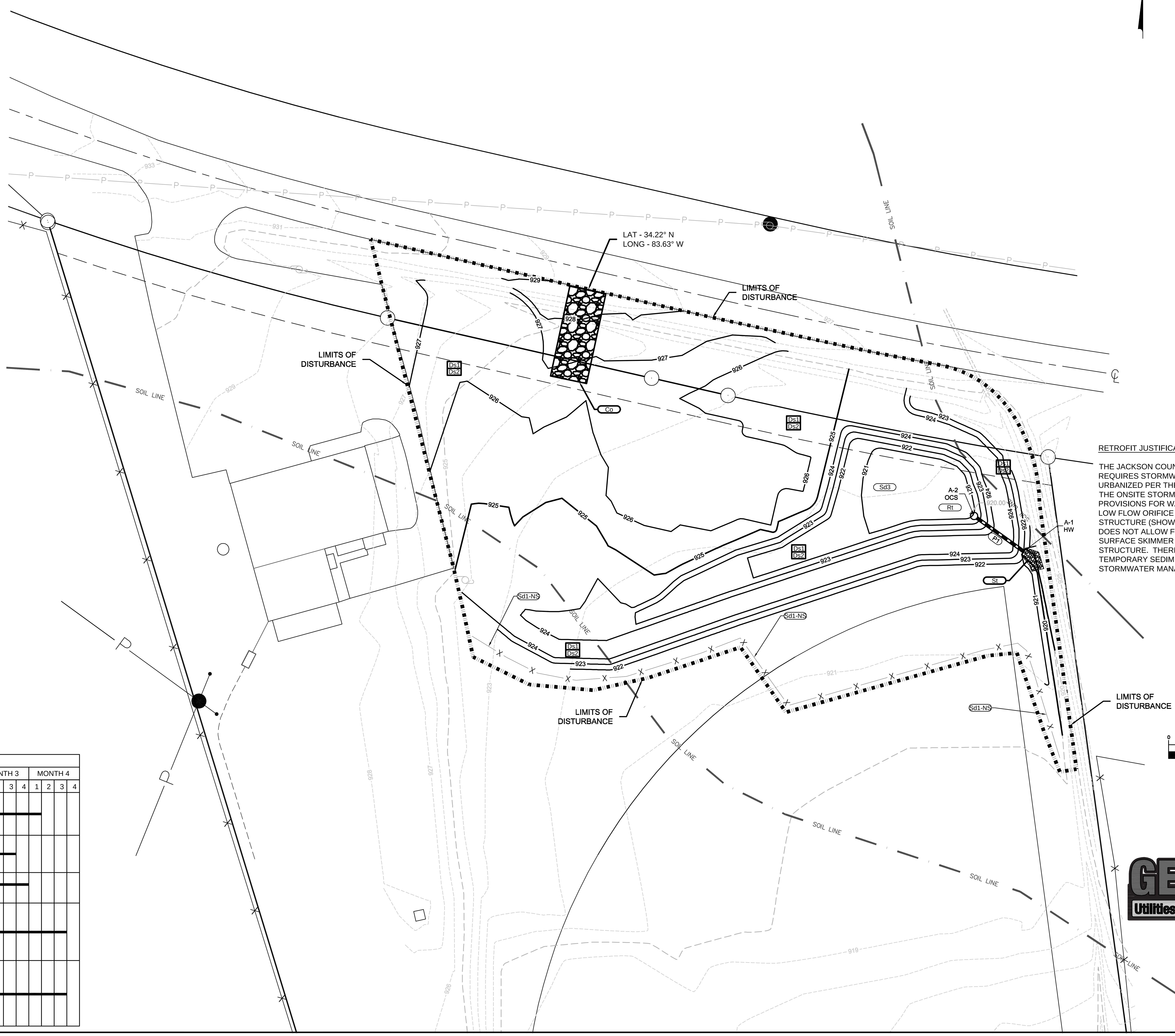
PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

EROSION CONTROL SHEET NOTES:

1. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION MEASURES SHALL BE USED WHEN GRADING AND DRAINAGE INSTALLATION ARE COMPLETE AND SURROUNDING CONSTRUCTION AREA HAS BEEN CLEANED UP, AND PREPARATION OF THE SUBSOIL IS COMPLETE.
2. ALL CONSTRUCTION VEHICLES LEAVING THE CONSTRUCTION AREA SHALL HAVE MUD CLEANED FROM THEIR TIRES BEFORE LEAVING THE AREA TO PROTECT PUBLIC STREETS FROM THE TRANSPORTATION OF SEDIMENT FROM THE SITE.
3. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST ON AND NEAR THE WORK WHEN DUST IS CAUSED BY THE OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL THOROUGHLY MOISTEN ALL SURFACES AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF WORK ON THE SITE.
4. TOTAL PROJECT AREA = 9.21 ACRES. TOTAL DISTURBED AREA = 1.50 ACRES.
5. HEIGHT (*) PER DETAIL Sd1-NS, SHEET D1 IS 28". THEREFORE, THE TOTAL FABRIC LENGTH IS 36".

EROSION CONTROL LEGEND

Symbol	Description
Sd1-NS	SILT FENCE TYPE 'S'
Co	CONSTRUCTION EXIT/ENTRANCE
Rt	RETROFIT
Ss	SLOPE STABILIZATION
St	STORM DRAIN OUTLET PROTECTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
	DISTURBED LIMITS



RETROFIT JUSTIFICATION:

THE JACKSON COUNTY LAND DEVELOPMENT ORDINANCE ONLY REQUIRES STORMWATER DETENTION IN AREAS THAT ARE NOT URBANIZED PER THE JACKSON COUNTY MS4 PERMIT. THEREFORE, THE ONSITE STORMWATER MANAGEMENT POND DOES NOT HAVE PROVISIONS FOR WATER QUALITY AND CHANNEL PROTECTION. THE LOW FLOW ORIFICE DESIGNED PER THE OUTLET CONTROL STRUCTURE (SHOWN SHEET D2) IS AN 8" ORIFICE. THE 8" ORIFICE DOES NOT ALLOW FOR THE CONNECTION OF THE FLOATING SURFACE SKIMMER TO THE PERMANENT OUTLET CONTROL STRUCTURE. THEREFORE, A RETROFIT IS PROPOSED TO PROVIDE TEMPORARY SEDIMENT STORAGE WITHIN THE PERMANENT STORMWATER MANAGEMENT POND.

GRAPHIC SCALE

0 15 30 60 90

(IN FEET)
1 inch = 30 ft.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS DATE
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

ANTICIPATED ACTIVITY SCHEDULE:

START DATE: FEBRUARY1, 2016
END DATE: JUNE 1, 2016

ACTIVITY	2016															
	MONTH 1				MONTH 2				MONTH 3				MONTH 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
EROSION CONTROL INSTALLATION OF SILT FENCE, CONSTRUCTION EXIT, TEMPORARY SEDIMENT POND, AND TEMPORARY MULCHING (Co) (Sd1–NS) [Ds1] (Rt)	X	X	X	X	X	X	X	X	X	X	X	X	X			
ROUGH GRADING OF THE SITE, INSTALLATION OF STORM DRAIN STRUCTURES AND ASSOCIATED PIPING AND UTILITIES			X	X	X	X	X	X	X	X	X					
FINAL GRADING OF THE SITE AND BUILDING PAD AREA, CONSTRUCTION OF THE PARKING AREA AND DRIVEWAYS.							X	X	X	X	X	X				
INSTALLATION OF TEMPORARY AND PERMANENT GRASSING IN AREAS WHERE SITE IMPROVEMENTS ARE COMPLETE AND IN DISTURBED AREAS LEFT EXPOSED FOR GREATER THAN 14 DAYS [Ds2] [Ds3] (St)		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MAINTAIN INSTALLED EROSION CONTROL BMPS UNTIL PERMANENT VEGETATION IS ESTABLISHED AND EFFECTIVE CONTROL OF EROSION HAS BEEN ACHIEVED IN DISTURBED AREAS (Co) (Sd1–NS) [Ds2] [Ds3]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GSWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL INTERMEDIATE PHASE

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15	DATE
15037	JOB NUMBER
z:\projects	FILE LOCATION

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

SHEET

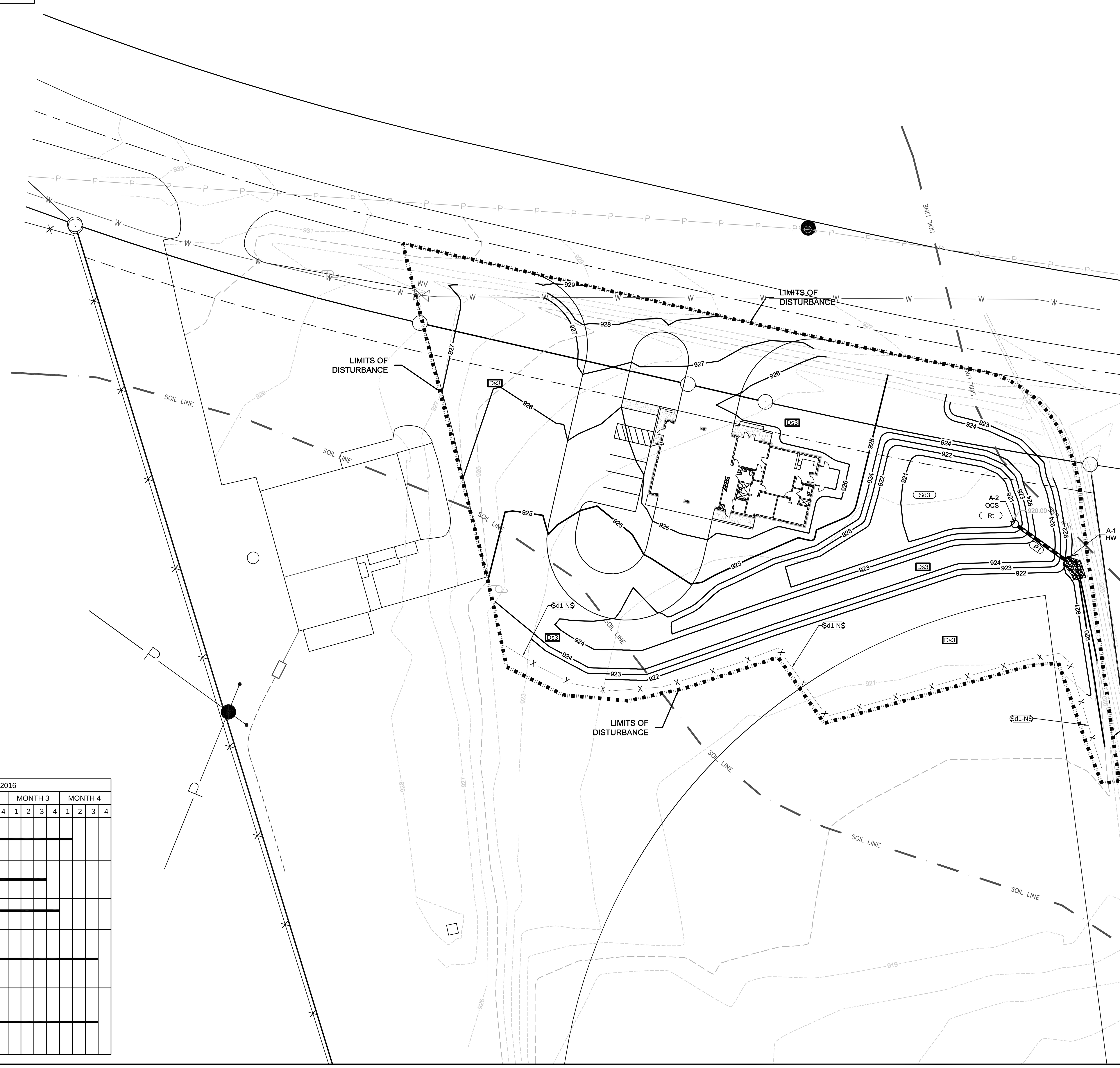
EC2

EROSION CONTROL SHEET NOTES:

1. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING. PERMANENT VEGETATION MEASURES SHALL BE USED WHEN GRADING AND DRAINAGE INSTALLATION ARE COMPLETE AND SURROUNDING CONSTRUCTION AREA HAS BEEN CLEANED UP, AND PREPARATION OF THE SUBSOIL IS COMPLETE.
2. ALL CONSTRUCTION VEHICLES LEAVING THE CONSTRUCTION AREA SHALL HAVE MUD CLEANED FROM THEIR TIRES BEFORE LEAVING THE AREA TO PROTECT PUBLIC STREETS FROM THE TRANSPORTATION OF SEDIMENT FROM THE SITE.
3. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST ON AND NEAR THE WORK WHEN DUST IS CAUSED BY THE OPERATIONS DURING PERFORMANCE OF THE WORK OR IF RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL THOROUGHLY MOISTEN ALL SURFACES AS REQUIRED TO PREVENT DUST BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF WORK ON THE SITE.
4. TOTAL PROJECT AREA = 9.21 ACRES. TOTAL DISTURBED AREA = 1.50 ACRES.
5. HEIGHT (*) PER DETAIL Sd1-NS, SHEET D1 IS 28". THEREFORE, THE TOTAL FABRIC LENGTH IS 36".

EROSION CONTROL LEGEND

- Sd1-NS — SILT FENCE TYPE 'NS'
- Ss — SLOPE STABILIZATION
- St — STORM DRAIN OUTLET PROTECTION
- Ds3 — DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
- DISTURBED LIMITS



RETROFIT JUSTIFICATION:

THE JACKSON COUNTY LAND DEVELOPMENT ORDINANCE ONLY REQUIRES STORMWATER DETENTION IN AREAS THAT ARE NOT URBANIZED PER THE JACKSON COUNTY MS4 PERMIT. THEREFORE, THE ONSITE STORMWATER MANAGEMENT POND DOES NOT HAVE PROVISIONS FOR WATER QUALITY AND CHANNEL PROTECTION. THE LOW FLOW ORIFICE DESIGNED PER THE OUTLET CONTROL STRUCTURE (SHOWN SHEET D2) IS AN 8" ORIFICE. THE 8" ORIFICE DOES NOT ALLOW FOR THE CONNECTION OF THE FLOATING SURFACE SKIMMER TO THE PERMANENT OUTLET CONTROL STRUCTURE. THEREFORE, A RETROFIT IS PROPOSED TO PROVIDE TEMPORARY SEDIMENT STORAGE WITHIN THE PERMANENT STORMWATER MANAGEMENT POND.

GRAPHIC SCALE

0 30 60 120 180

(IN FEET)
1 inch = 60 ft.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS — DATE
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

ANTICIPATED ACTIVITY SCHEDULE:

START DATE: FEBRUARY1, 2016
END DATE: JUNE 1, 2016

ACTIVITY	2016															
	MONTH 1				MONTH 2				MONTH 3				MONTH 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
EROSION CONTROL INSTALLATION OF SILT FENCE, CONSTRUCTION EXIT, TEMPORARY SEDIMENT POND, AND TEMPORARY MULCHING (Co) (Sd1–NS) (Ds1) (Rt)																
ROUGH GRADING OF THE SITE, INSTALLATION OF STORM DRAIN STRUCTURES AND ASSOCIATED PIPING AND UTILITIES																
FINAL GRADING OF THE SITE AND BUILDING PAD AREA, CONSTRUCTION OF THE PARKING AREA AND DRIVEWAYS.																
INSTALLATION OF TEMPORARY AND PERMANENT GRASSING IN AREAS WHERE SITE IMPROVEMENTS ARE COMPLETE AND IN DISTURBED AREAS LEFT EXPOSED FOR GREATER THAN 14 DAYS (Ds2) (Ds3) (St)																
MAINTAIN INSTALLED EROSION CONTROL BMPS UNTIL PERMANENT VEGETATION IS ESTABLISHED AND EFFECTIVE CONTROL OF EROSION HAS BEEN ACHIEVED IN DISTURBED AREAS (Co) (Sd1–NS) (Ds2) (Ds3)																

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL
FINAL PHASE

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

DATE	12/01/15
JOB NUMBER	15037
FILE LOCATION	z:\projects

SHEET EC3

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

LANDSCAPING CALCULATIONS

1. TREE DENSITY REQUIREMENTS

Total Project Limits =	4.29	Acres				
Total Buffer Area=	0	Acres				
Net Area=	4.29	-	0	=	4.29	Acres
Tree Density Units=	17	Units per Acre				
Tree Density=	72.9	Units Required				
Tree Density=	8.0	Units Provided				

2. EXISTING DECIDUOUS TREES TO REMAIN

DIAMETER BREAST HEIGHT (DBH)	UNITS	NUMBER OF TREES TO REMAIN	TOTAL UNITS
0	0.0	0	0.0
-	-	-	-
		TOTAL UNITS TO REMAIN	**0.0**

TREES - REQUIRED PLANTING

Symbol	Botanical Name	Common Name	Height at time of planting (ft)	Quantity	Diameter(inch)	Units	Total Units
Cf	Cornus Florida	Flowering Dogwood	6	2	2	0.5	1.0
Ap	Acer Palmatum	Japanese Maple	6	5	2	0.5	2.5
Cc	Cercis Canadensis	Eastern Redbud	6	5	2	0.5	2.5
Ab	Acer Buergeranum	Trident Maple	6	4	2	0.5	2.0
			Subtotal	**16**			**8.0**

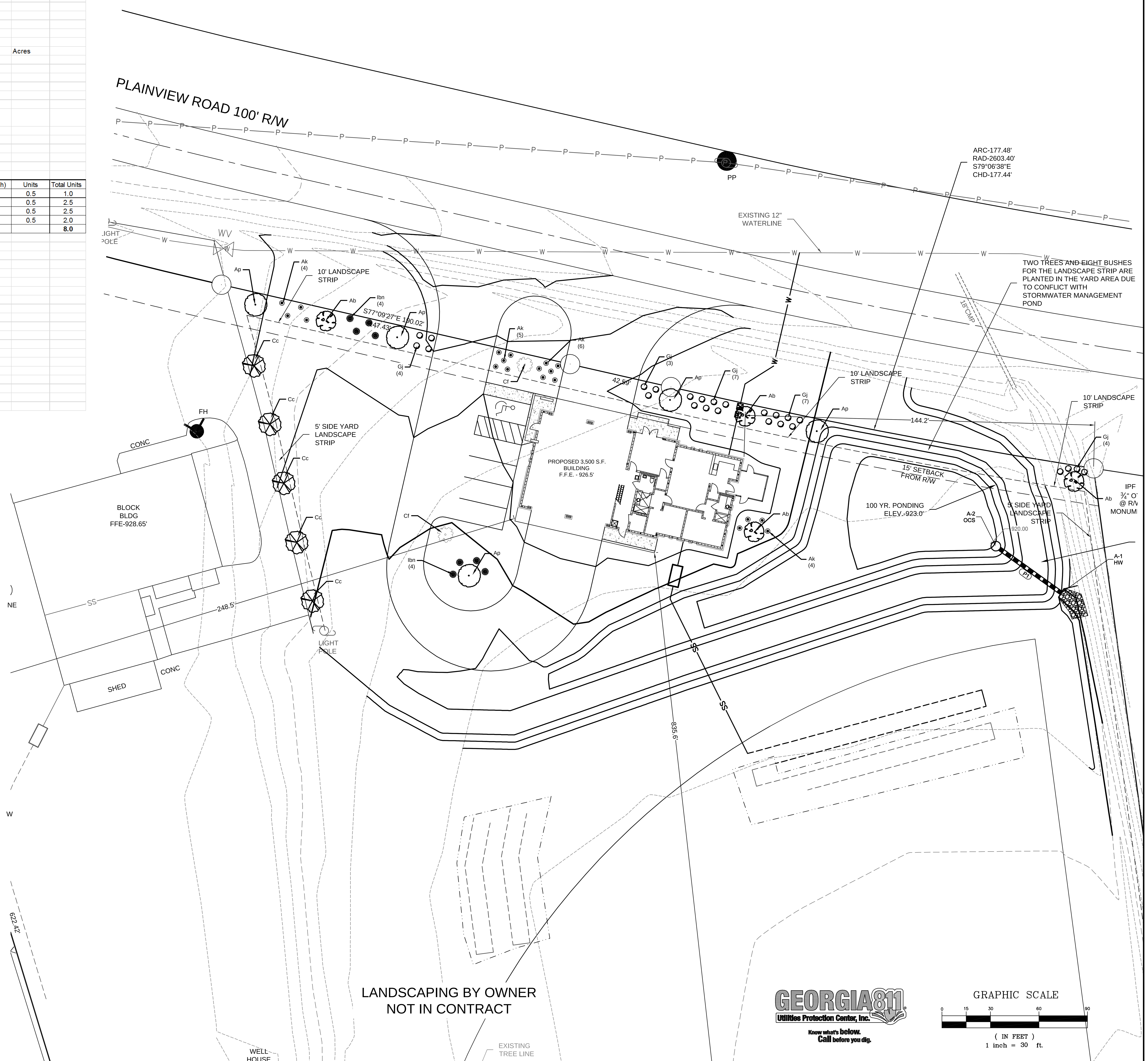
3. 10' FRONTAGE LANDSCAPE STRIP

Total Frontage for Proposed Site =	367.5	L.F.
Total Frontage =	367.5	L.F.
Proposed Driveway Width =	55	L.F.
Total Frontage Required to be Landscaped =	312.5	L.F.
Jackson County UDO requires 1 Tree Unit/60 L.F. of Frontage =	5.2	Units
Total number - Frontage Trees Required (planting 2" Caliper trees)=	10	Trees
Jackson County UDO requires 10 shrubs/60 L.F. of Frontage =	52	Shrubs

4. 5' SIDE YARD LANDSCAPE STRIP Side yard length adjacent to Fire Station is 148 L.F.

Jackson County UDO requires 1 Tree Unit/60 L.F. of Side yard =	2.5	Units	
Total number -Side Yard Trees Required (planting 2" Caliper trees)=	4.9	Trees	Plant 5 Trees

ONE JAPANESE MAPLE, ONE TRIDENT MAPLE, FOUR DWARF BURFORD HOLLIES, AND FOUR KAEMPFERI AZALEAS ARE PLANTED IN THE YARD AREA ADJACENT TO THE BUILDING AND PARKING LOT DUE TO THE LOCATION OF THE STORMWATER MANAGEMENT POND.



GENERAL PLANTING NOTES

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER–GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
3. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED.
4. ALL PLANTS ARE SUBJECT TO APPROVAL OF THE OWNER BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED.
7. PRIOR TO CONSTRUCTION, THE OWNER SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE OWNER IS RESPONSIBLE FOR REPAIRING ALL UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
8. THE OWNER IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS PRIOR TO PRICING THE WORK.
9. THE OWNER IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING, INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION ETC., OF PLANTING AREAS AND LAWNS UNTIL WORK IS ACCEPTED IN TOTAL BY THE OWNER.
10. THE OWNER SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE OWNER SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
11. THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE, INCLUDING WATERING, THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
13. ANY PLANT MATERIAL THAT DIES, TURNS BROWN, OR DEFOLIATES, PRIOR TO ACCEPTANCE OF THE WORK, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	UNIT CREDITS	UNIT TOTALS	REMARKS
TREES							
2	Cf	CORNUS FLORIDA	FLOWERING DOGWOOD	2" CAL.	0.5	1	FULL, NOT ROOTBOUND
5	Ap	ACER PALMATUM	JAPANESE MAPLE	2" CAL.	0.5	2.5	FULL, NOT ROOTBOUND
5	Cc	CERCIS CANADENSIS	EASTERN REDBUD	2" CAL.	0.5	2.5	FULL, NOT ROOTBOUND
4	Ab	ACER BUERGERANUM	TRIDENT MAPLE	2" CAL.	0.5	2	FULL, NOT ROOTBOUND
SHRUBS							
19	Ak	AZALEA KAEMPFERI	KAEMPFERI AZALEA	3 GAL.			
25	Gj	GARDENIA JASMINOIDES	CAPE–JASMINE	3 GAL.			
8	Ibn	ILEX CORNUTA BURFORDII	DWARF BURFORD HOLLY	3 GAL.			
TURFGRASS							
		SEED FESTUCA SPP.	'REBEL II' FESCUE	SEED/SOD	N/A	N/A	SEE EROSION CONT. PLAN
				TOTAL = 8 UNITS			

NOTE: ALL TREES SHALL BE A MIN. OF 6' HT. AT TIME OF PLANTING

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT NEW EMS STATION

LOCATED IN G.M.D. 455 JACKSON COUNTY, GEORGIA

PROJECT

LANDSCAPE PLAN

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 26331 KENNETH LEE PETERS

STAMP

12/01/15
DATE
15037
JOB NUMBER
z: \projects
FILE LOCATION

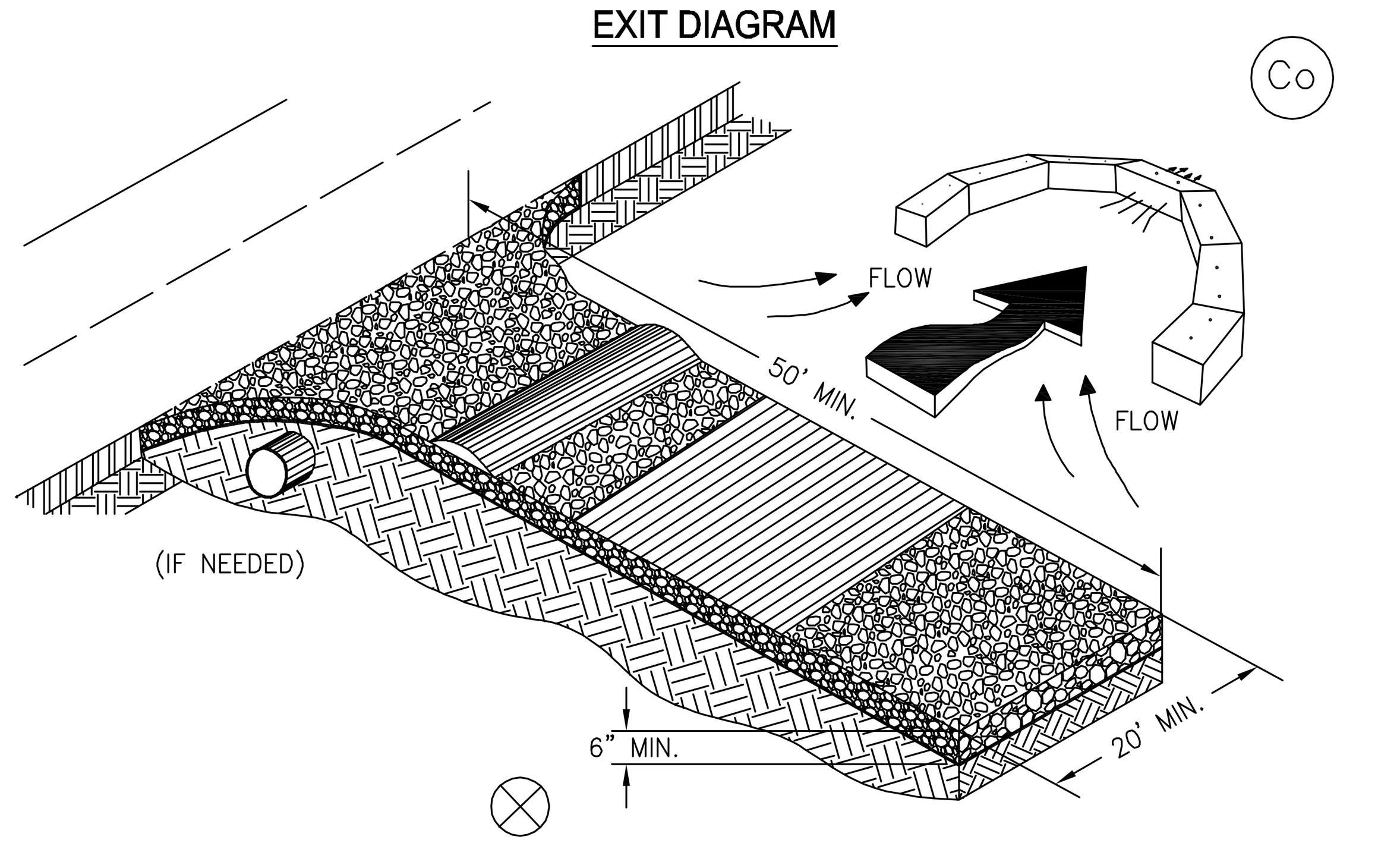
L1

SHEET

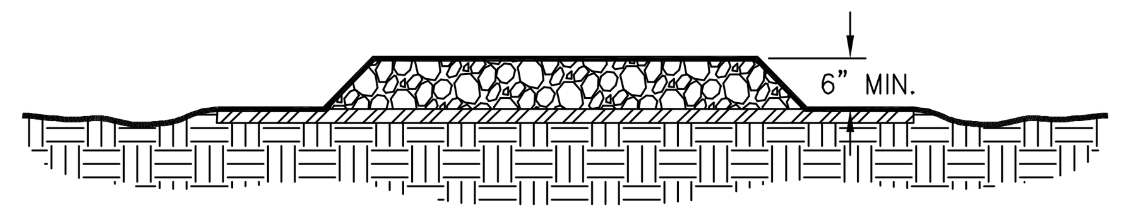
PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Planview EMS\Design Stage\15037-C-Base-01-12-16

CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



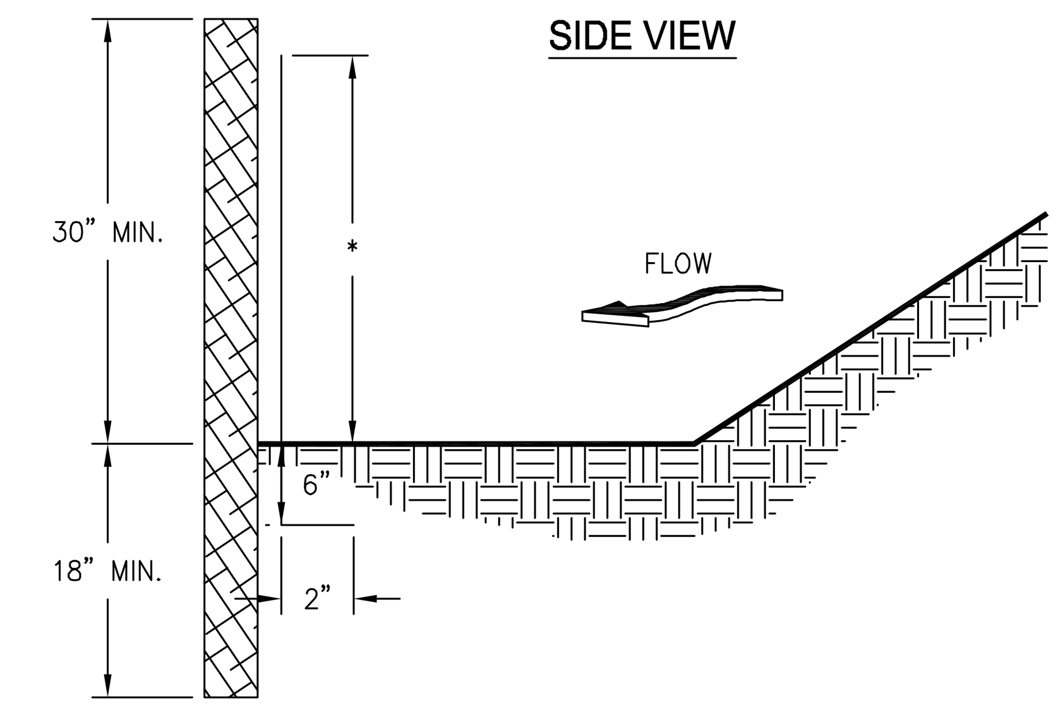
ENTRANCE ELEVATION



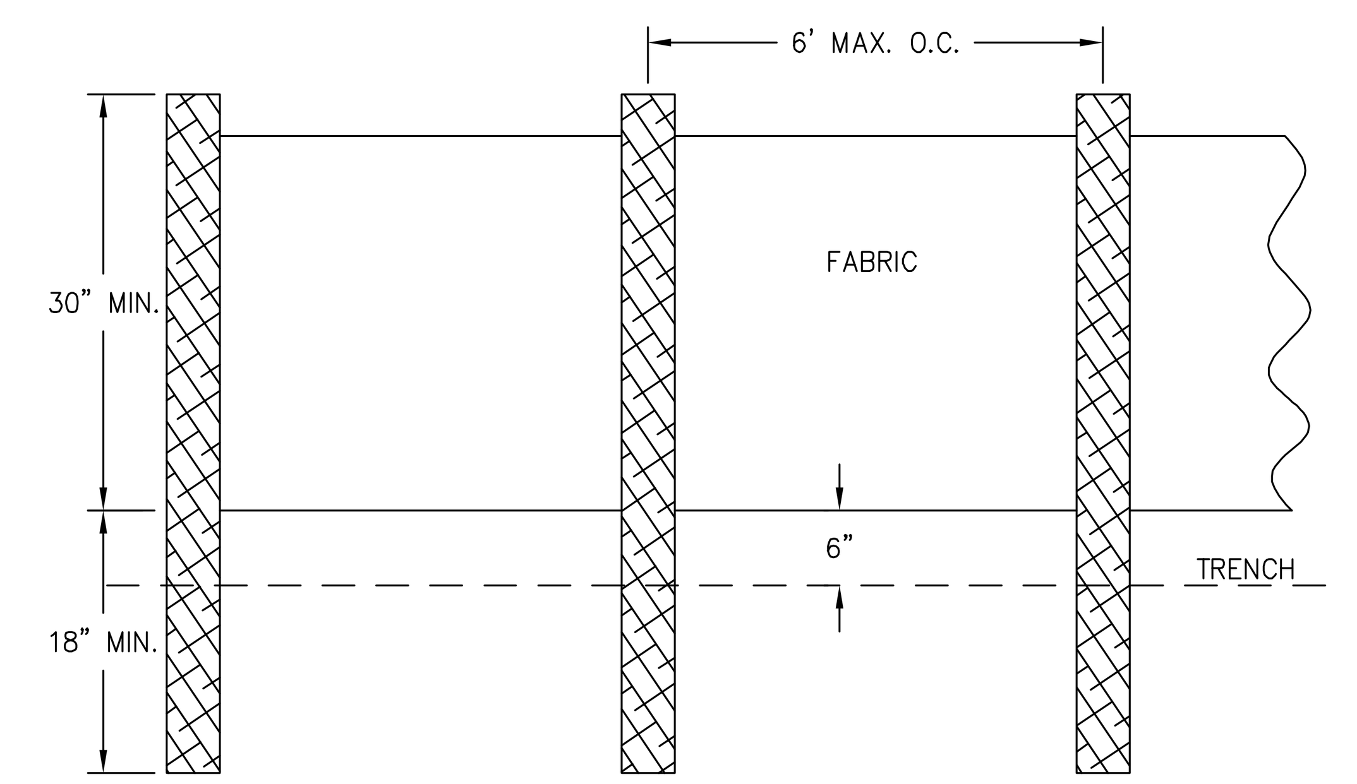
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW



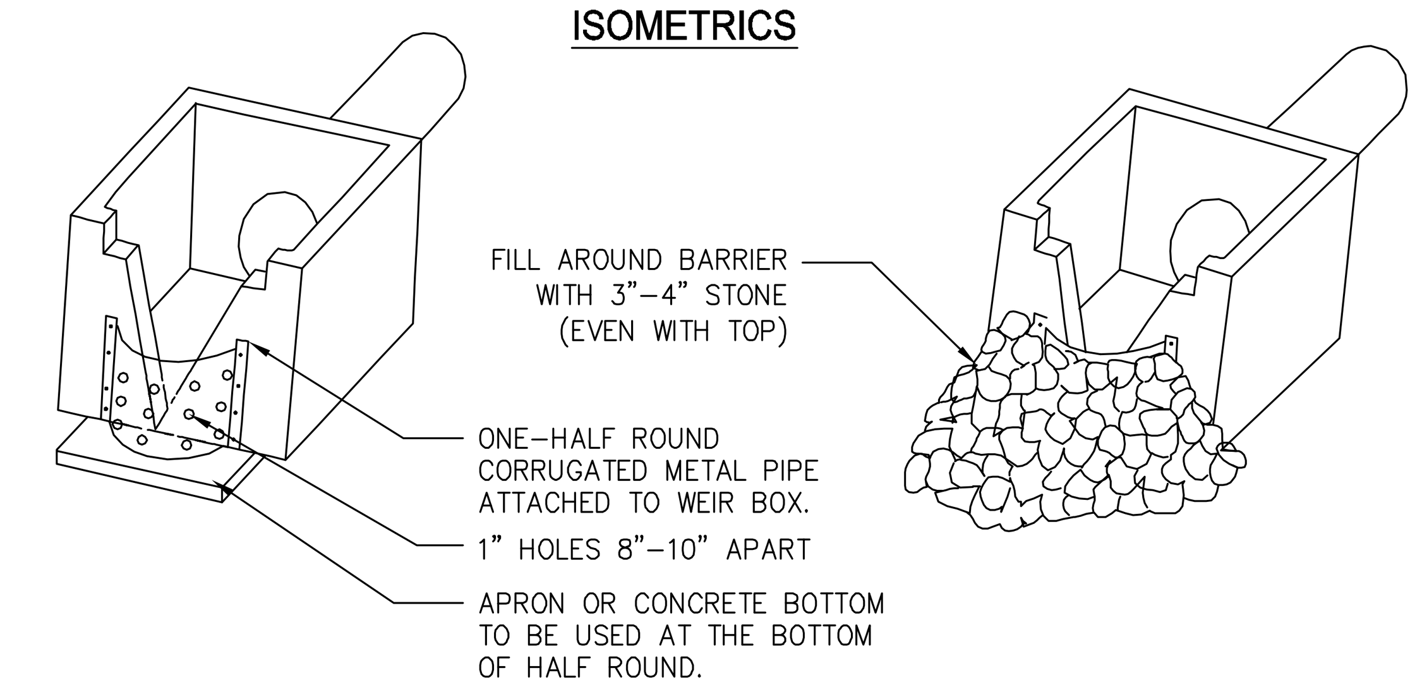
FRONT VIEW



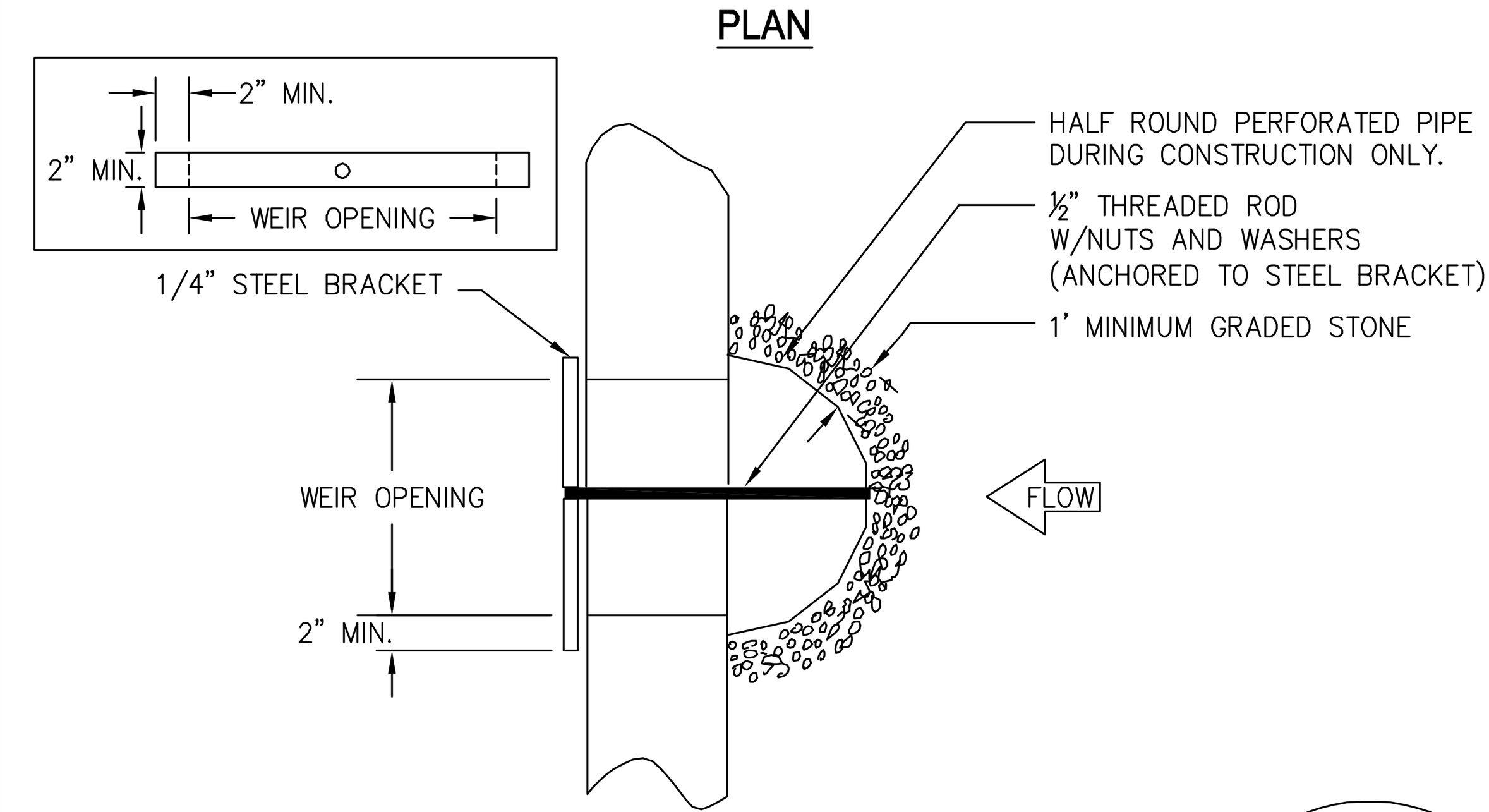
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

PERFORATED HALF-ROUND PIPE WITH STONE FILTER

ISOMETRICS

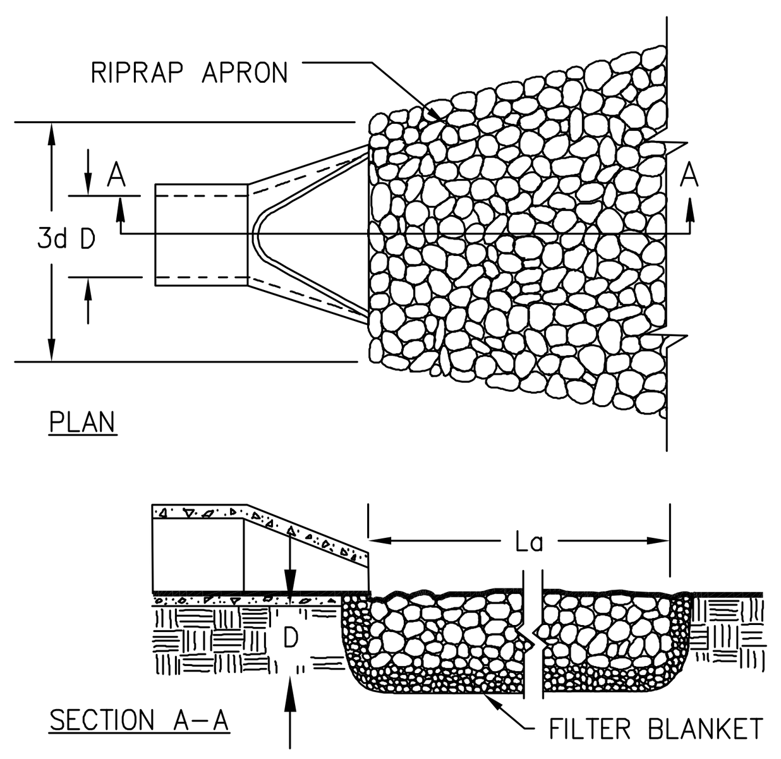


PLAN



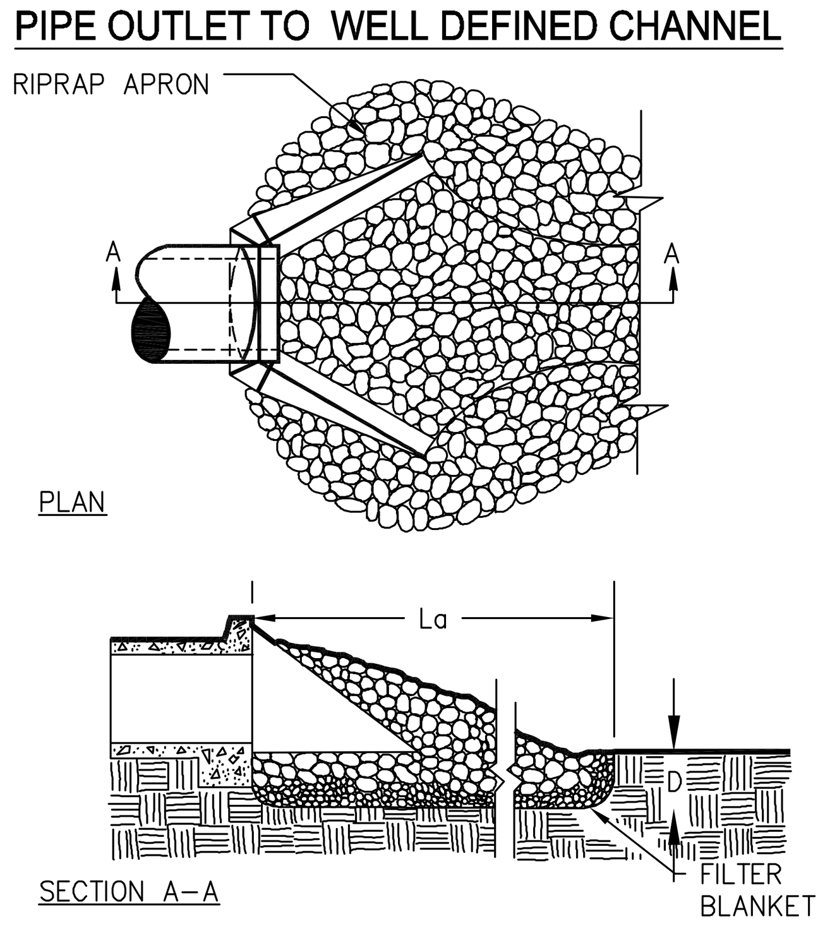
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



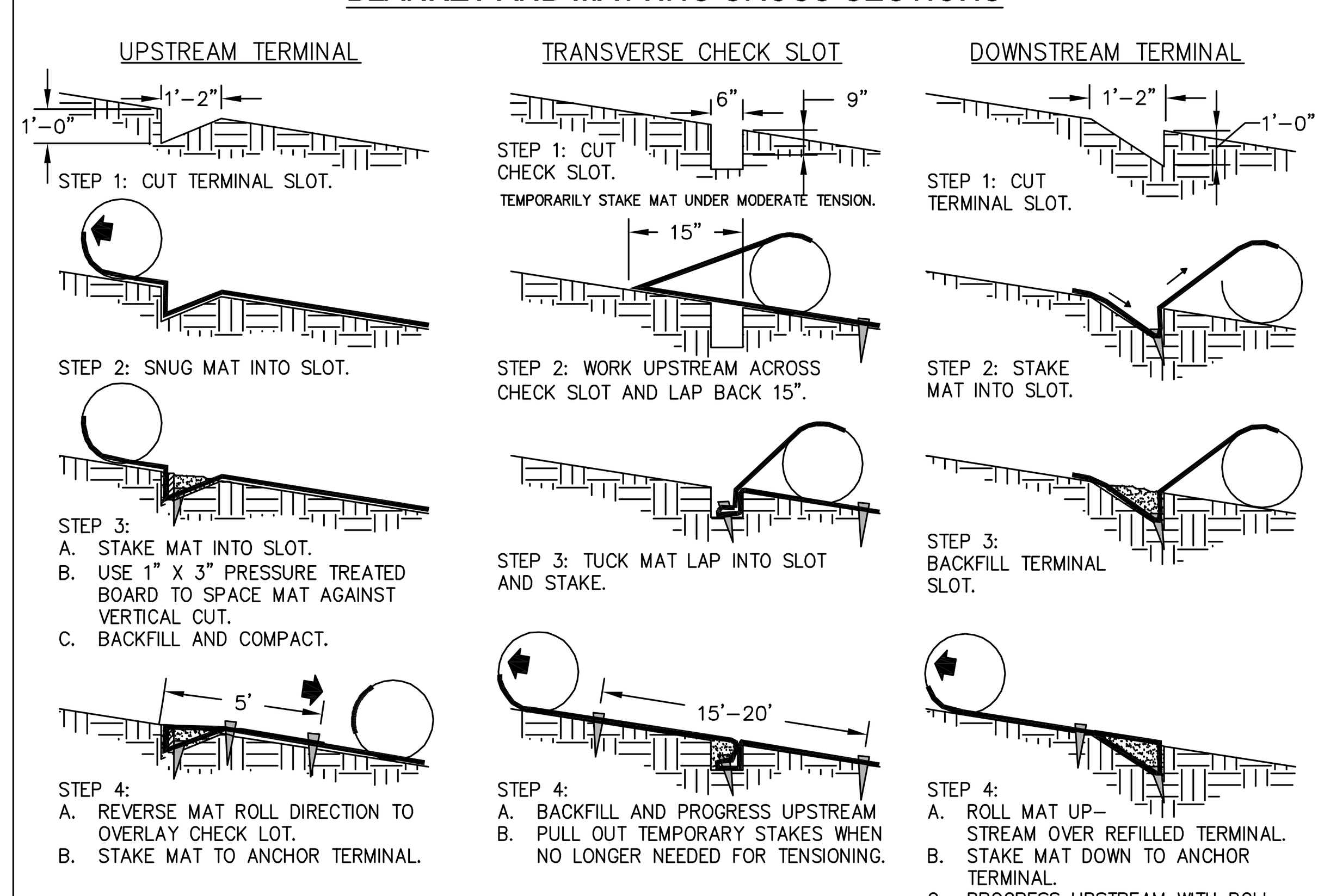
NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSTHAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

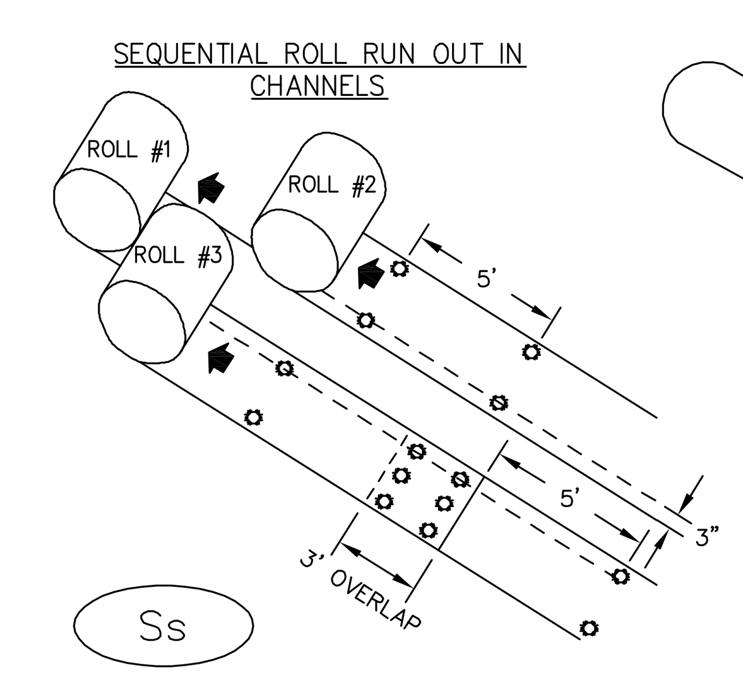
PIPE OUTLET TO WELL DEFINED CHANNEL

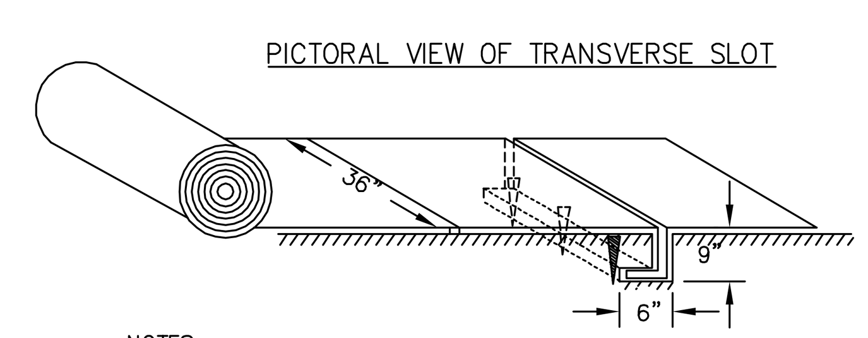


TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



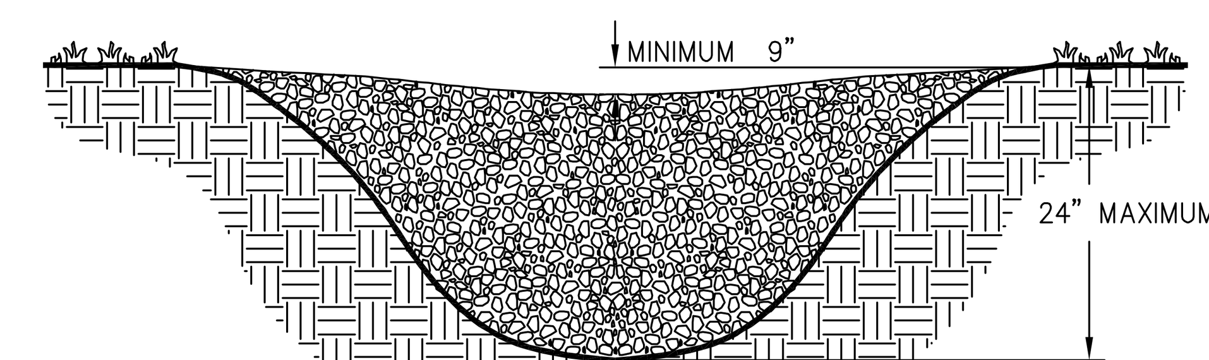




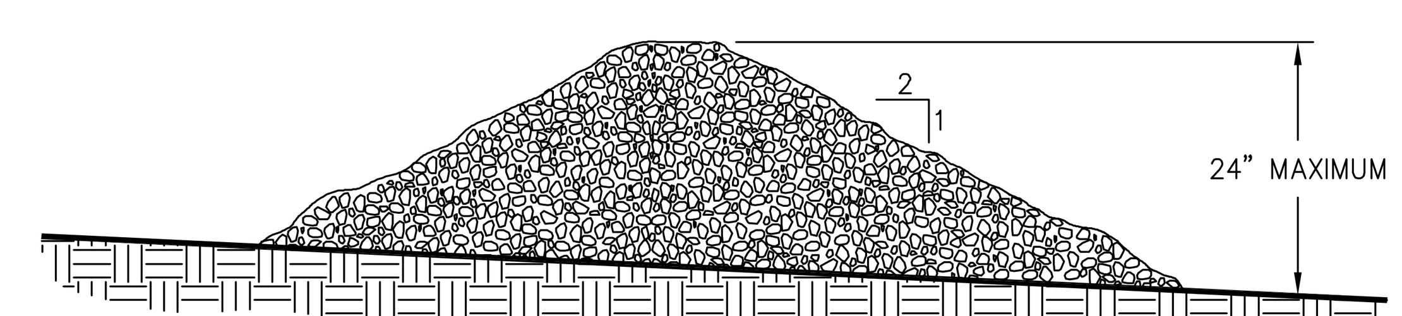
NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

STONE CHECK DAM

CROSS SECTION



PROFILE VIEW



NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

KENNETH PETERS — DATE
P.E. - LICENSE NO. 26331
GSWCC LEVEL II CERTIFICATION NO. 919

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT NEW EMS STATION
LOCATED IN G.M.D. 455 JACKSON COUNTY, GEORGIA

PROJECT

EROSION CONTROL DETAILS

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

PATH & FILE: Z:\PROJECTS\15\15037-Jackson Co-Plan\new EMS\Design Stage\15037-C-Base-01-12-16

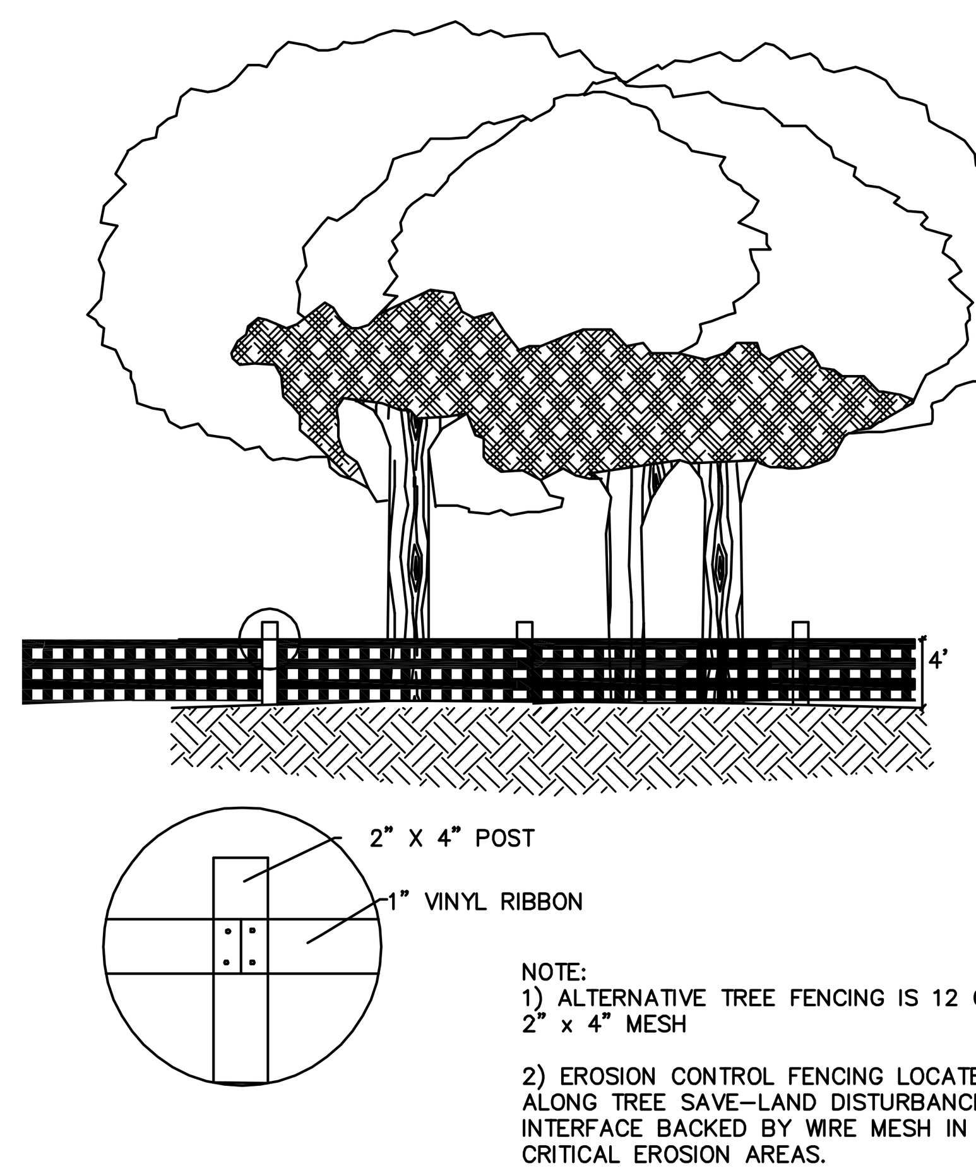
GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

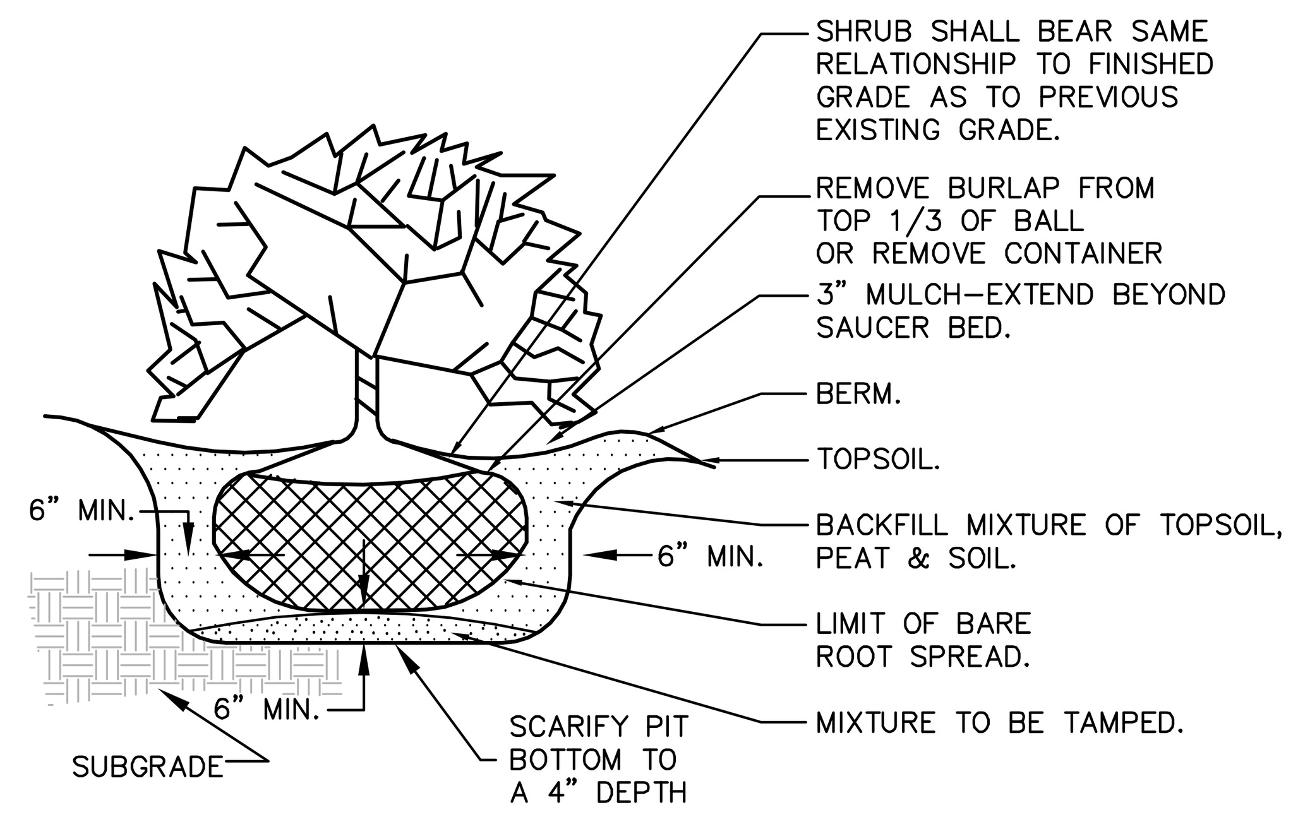
12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

D1

SHEET

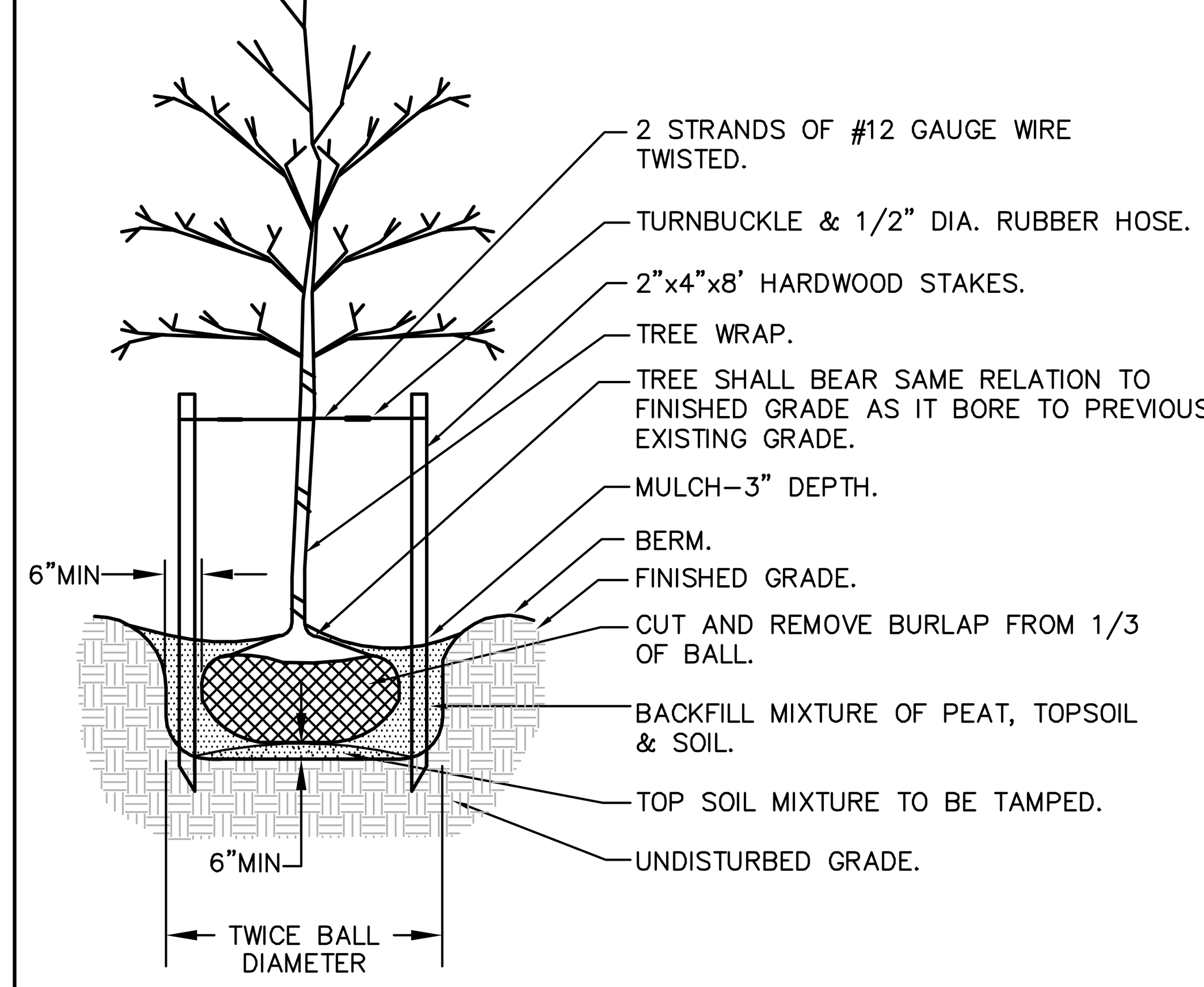


PROTECTIVE TREE FENCING — Engineering Management Associates, Inc. LS05

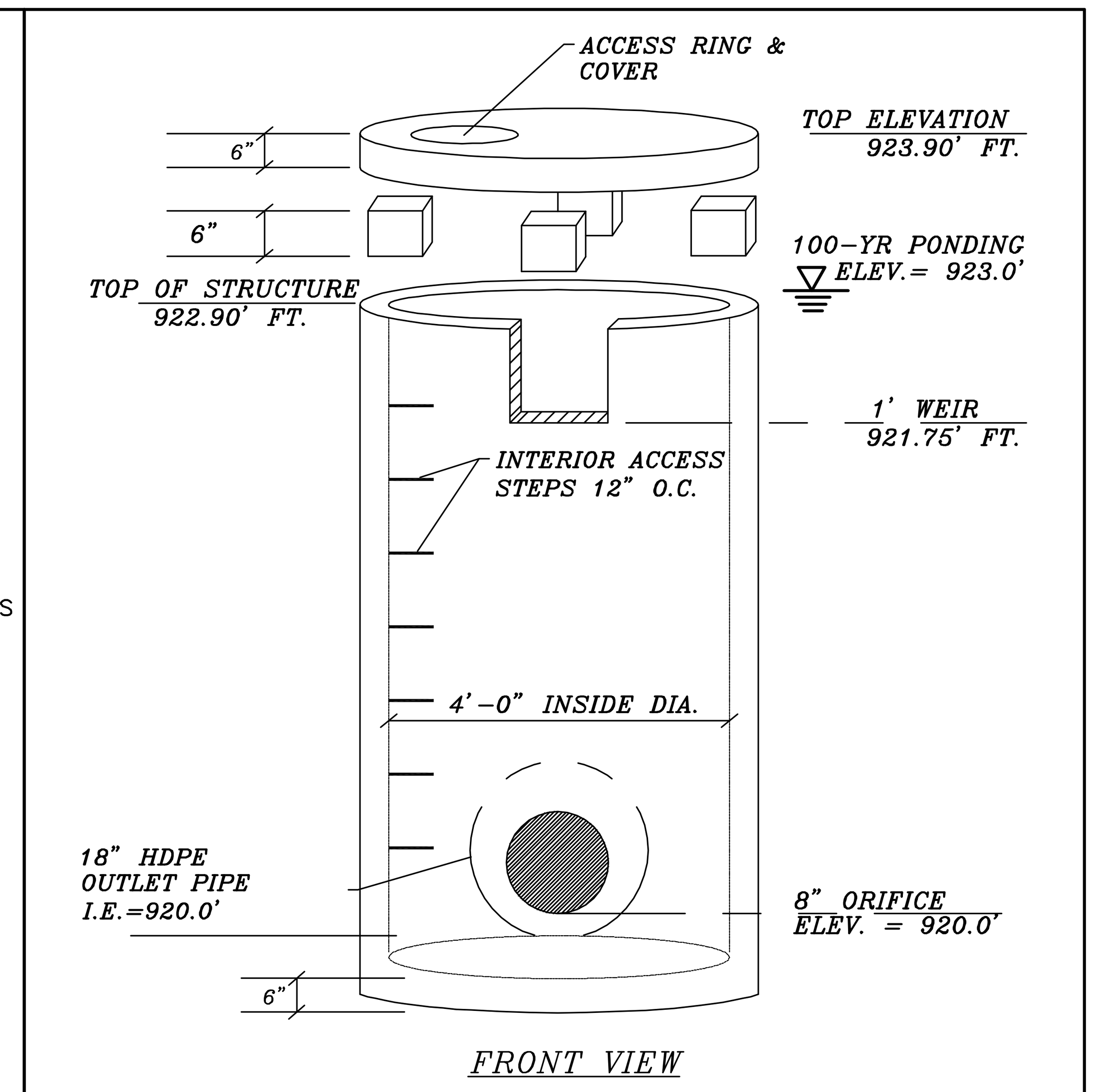


(B & B OR CONT.)

TYPICAL SHRUB PLANTING — Engineering Management Associates, Inc. LS01

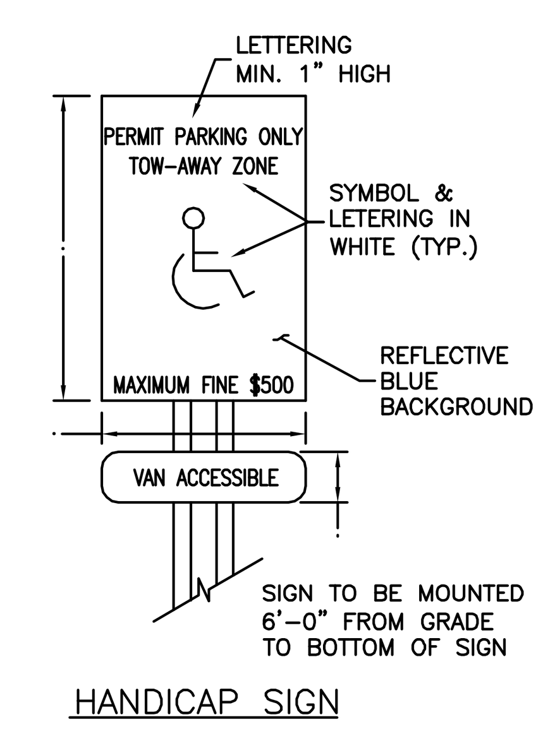


TYPICAL TREE PLANTING — Engineering Management Associates, Inc. LS03

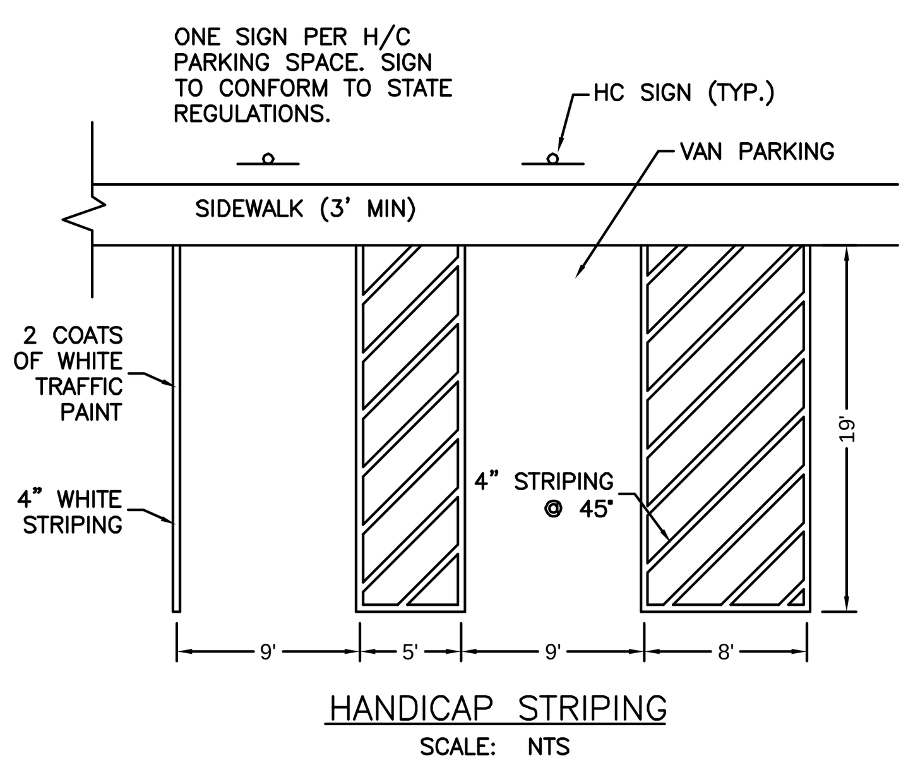


STORMWATER MANAGEMENT FACILITY
OUTLET CONTROL STRUCTURE

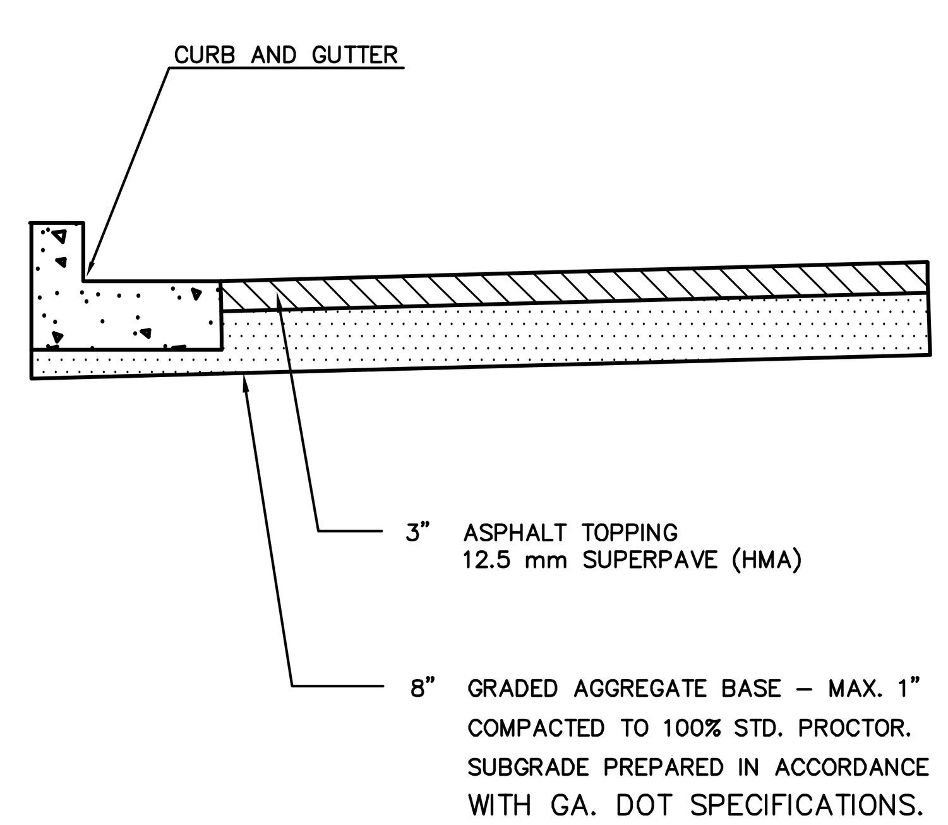
STORMWATER POND OCS — Engineering Management Associates, Inc.



HANDICAP SIGN
SCALE: NTS

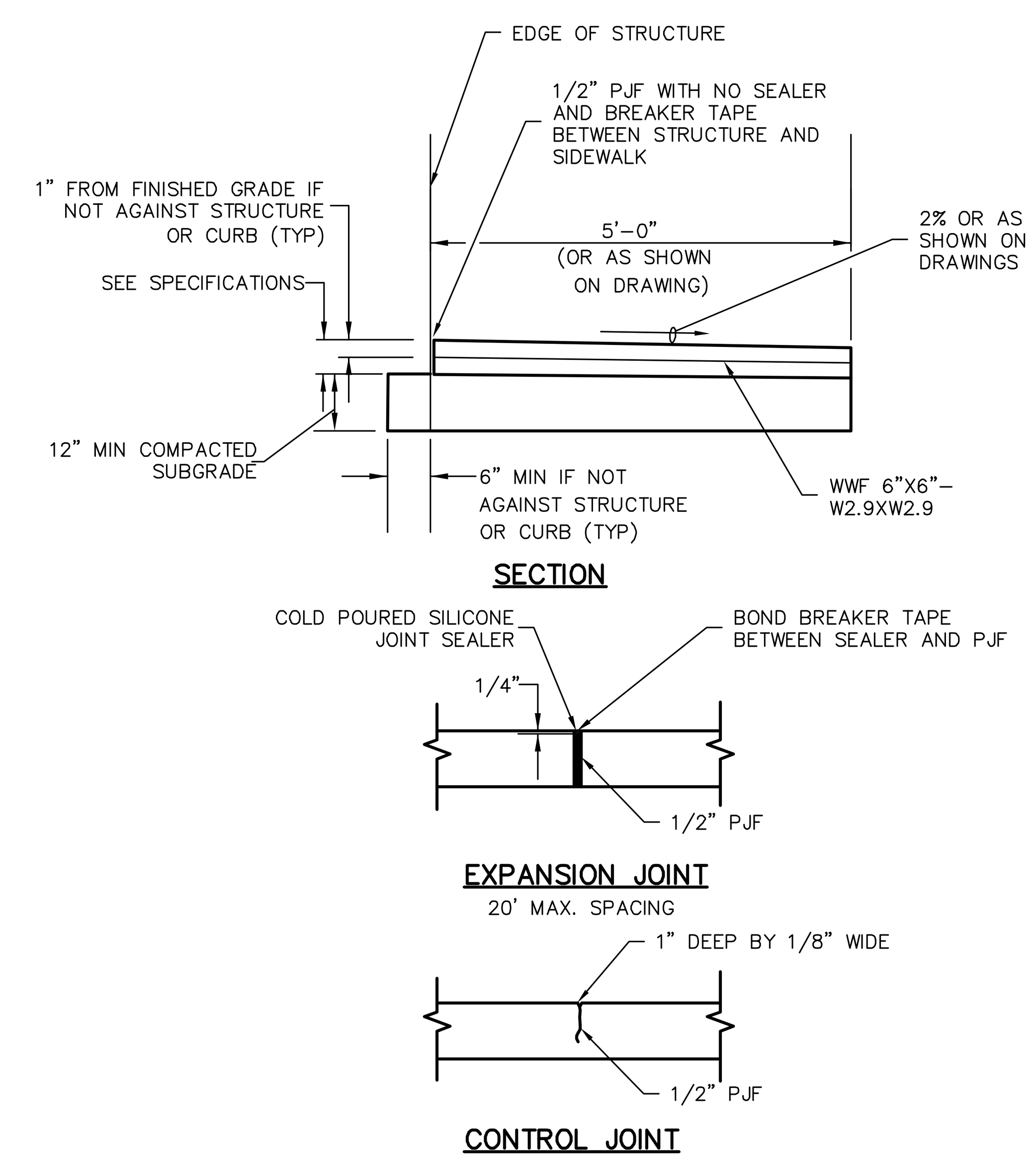


HANDICAP STRIPING
SCALE: NTS



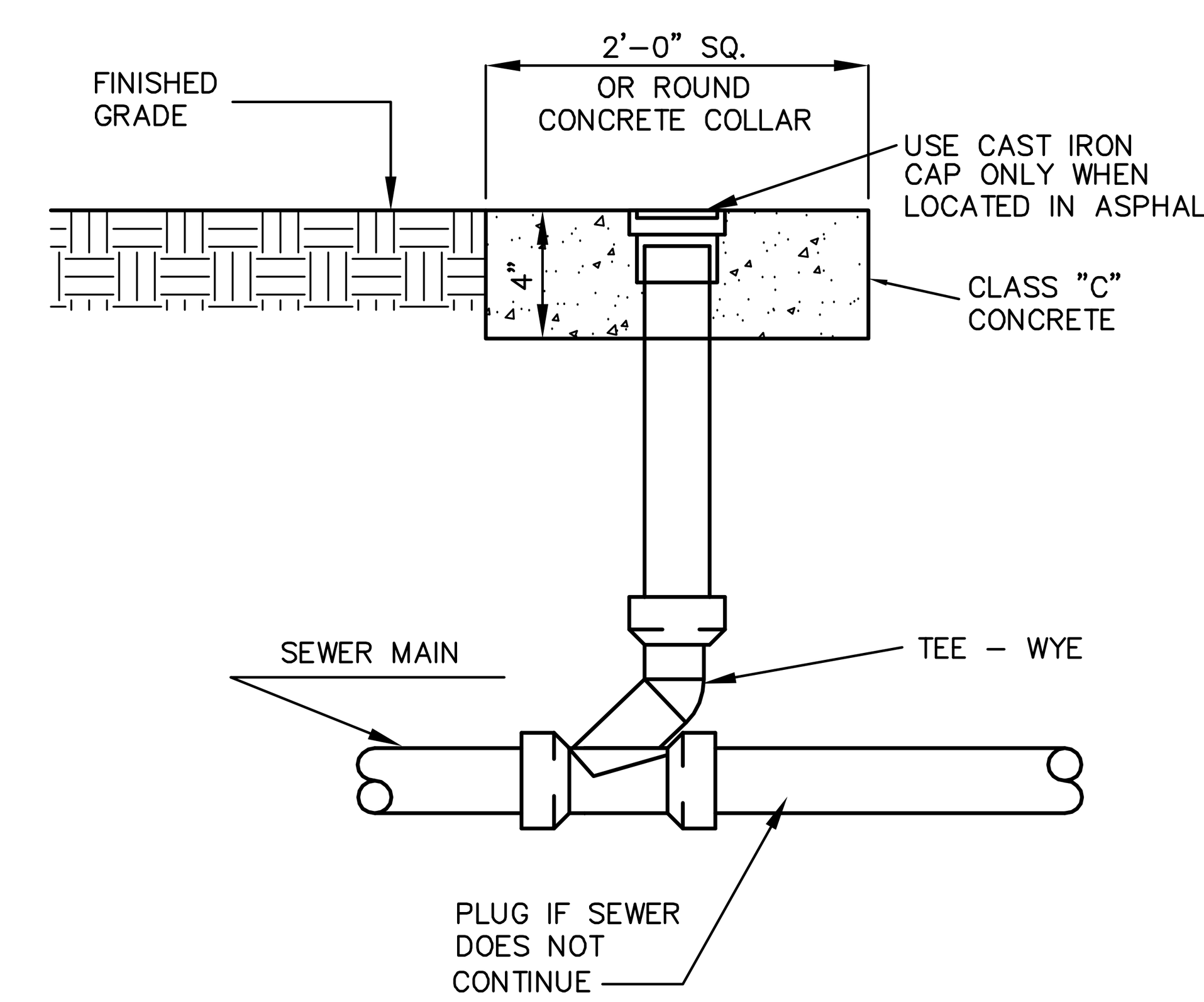
NOTE:
OWNER'S INSPECTOR SHALL CONFIRM THICKNESS OF BASE AND ASPHALT DURING CONSTRUCTION.

HEAVY DUTY PAVEMENT — Engineering Management Associates, Inc. PP01



NTS

CONCRETE SIDEWALK DETAIL



CLEAN OUT DETAIL — Engineering Management Associates, Inc. S10

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.emiinc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

CONSTRUCTION DETAILS
SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

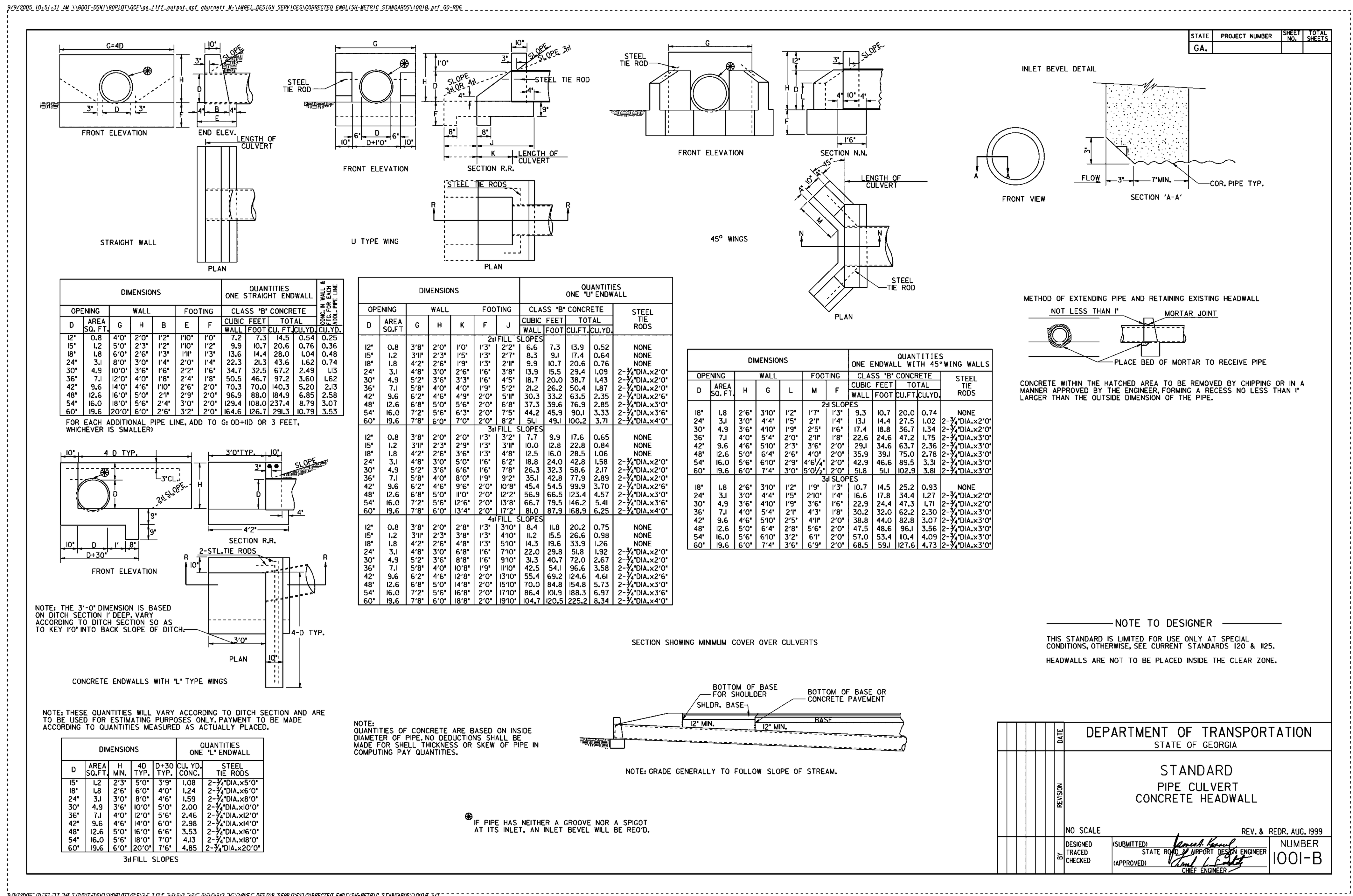
GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

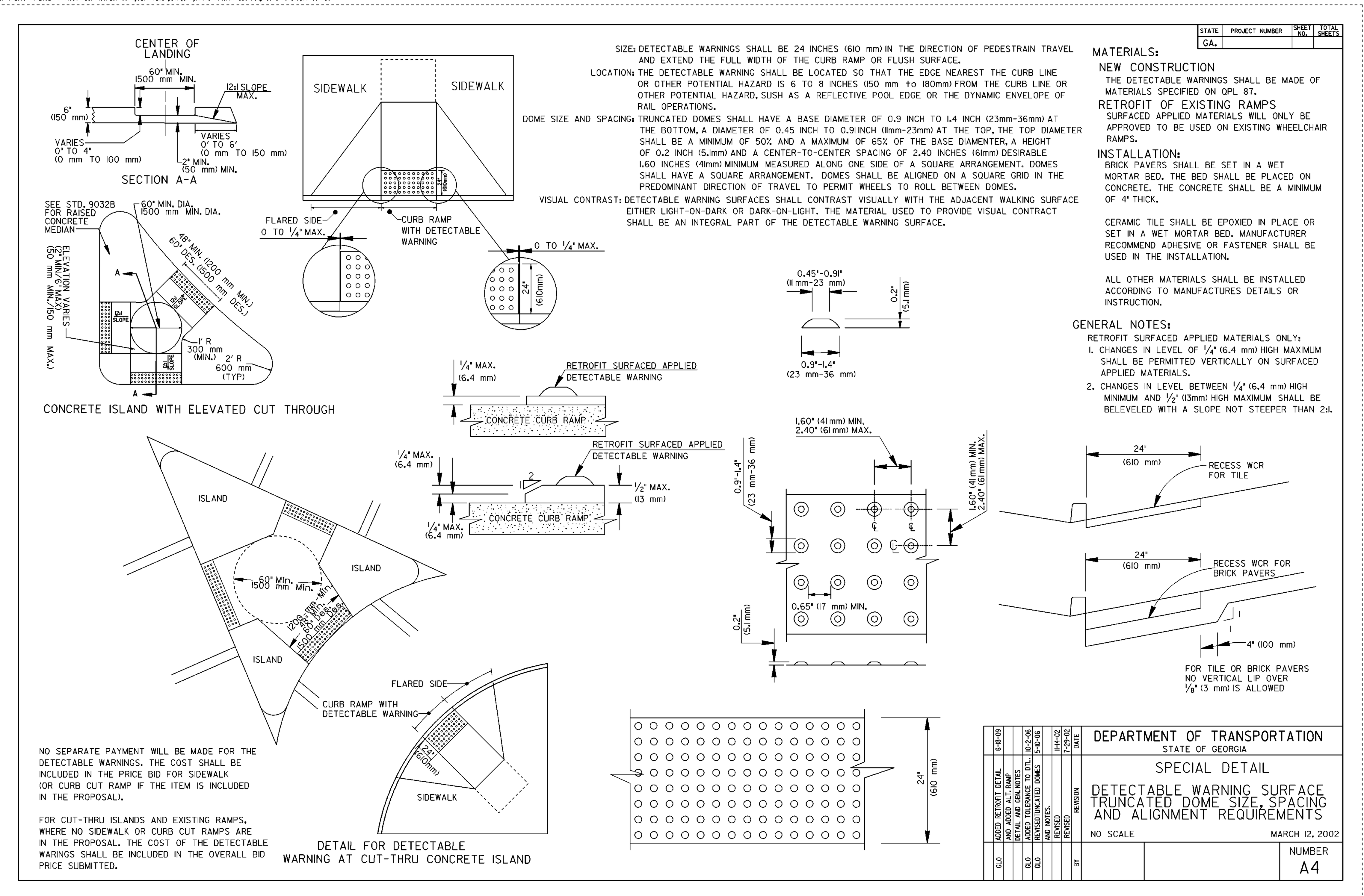
STAMP

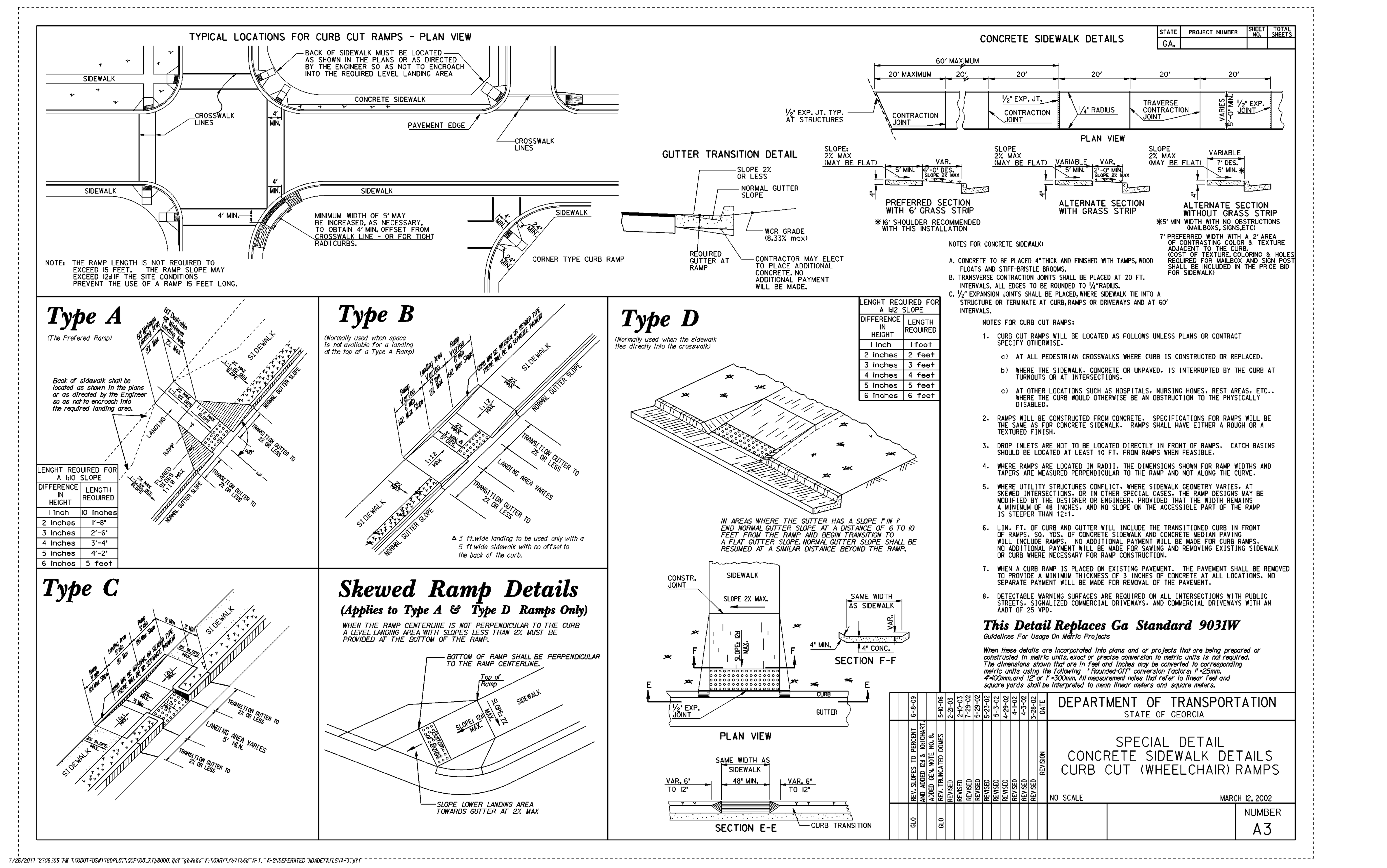
12/01/15 DATE
15037 JOB NUMBER
z:\projects FILE LOCATION

D2

SHEET







DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

ENGINEERING MANAGEMENT
Experience ▪ Trust ▪ Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT
NEW EMS STATION
LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

CONSTRUCTION DETAILS

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

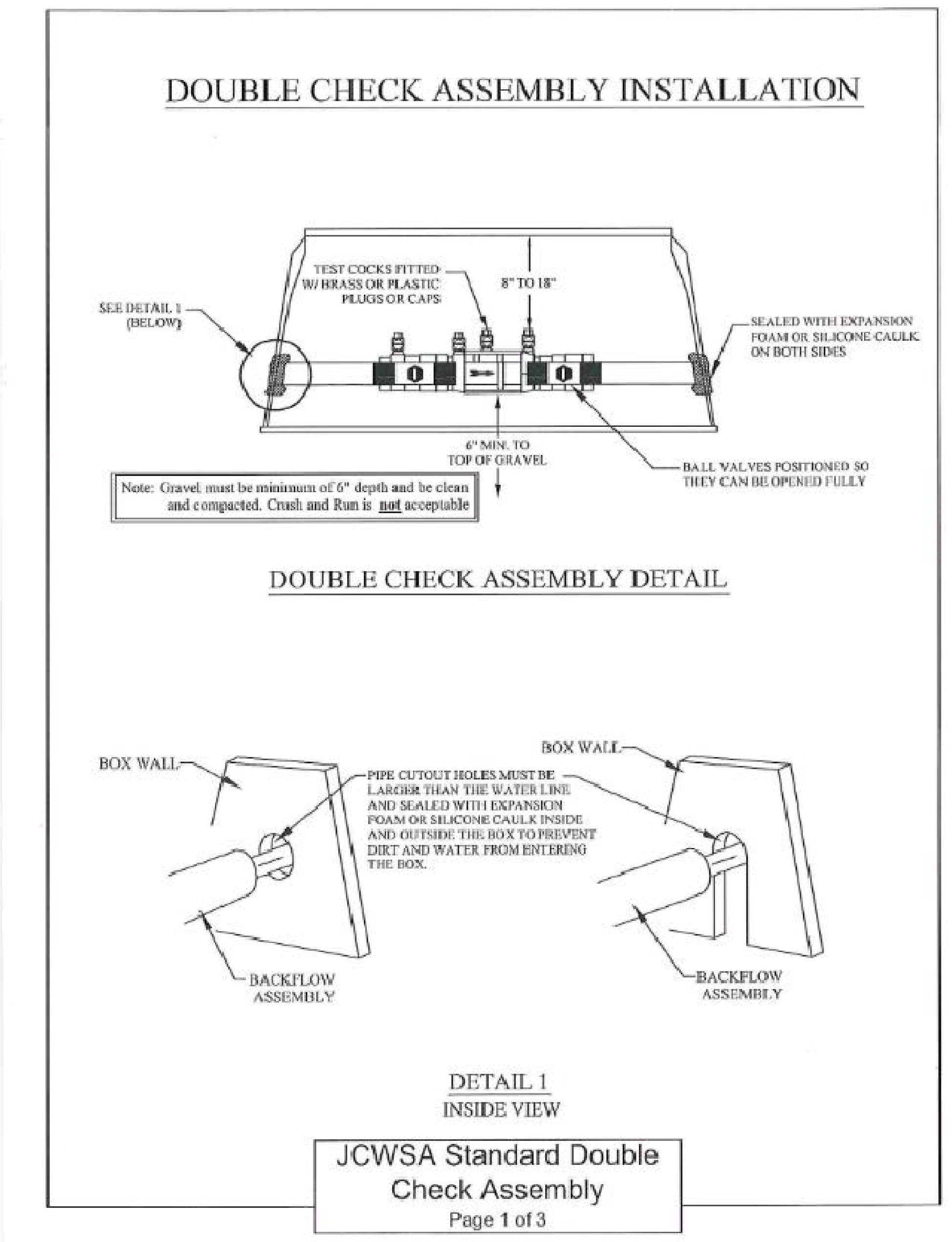
GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

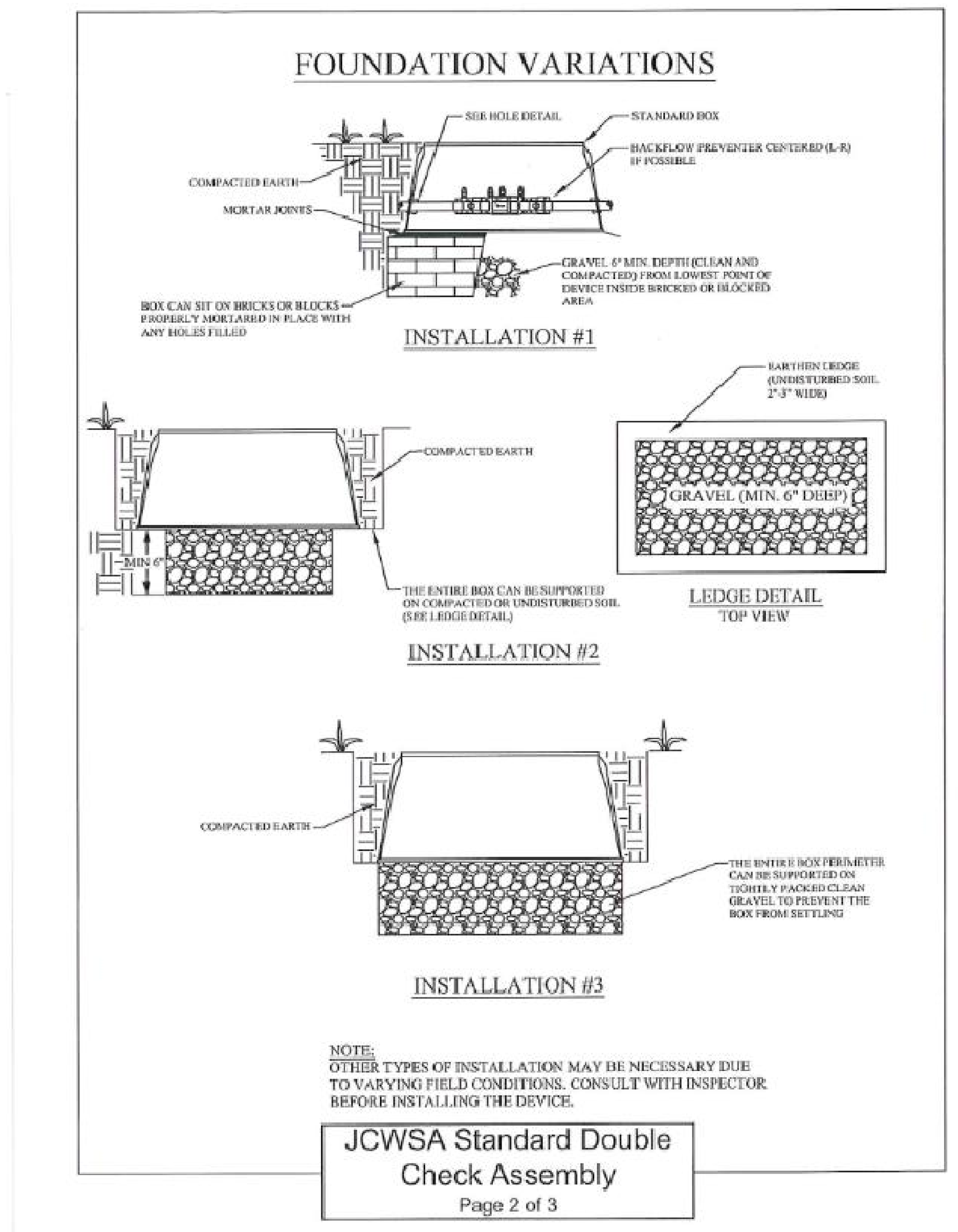
STAMP

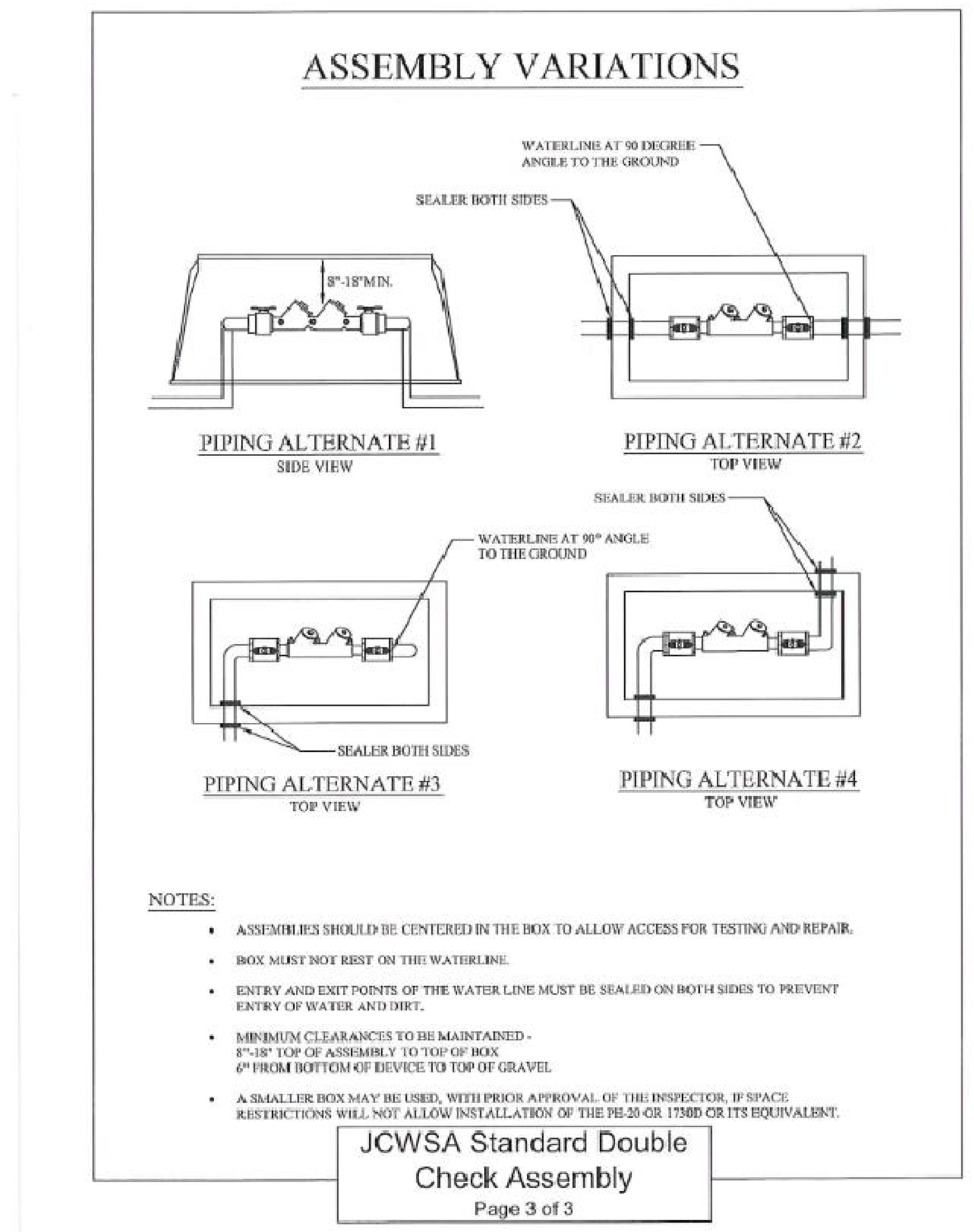
12/01/15
DATE
15037
JOB NUMBER
z:\projects
FILE LOCATION

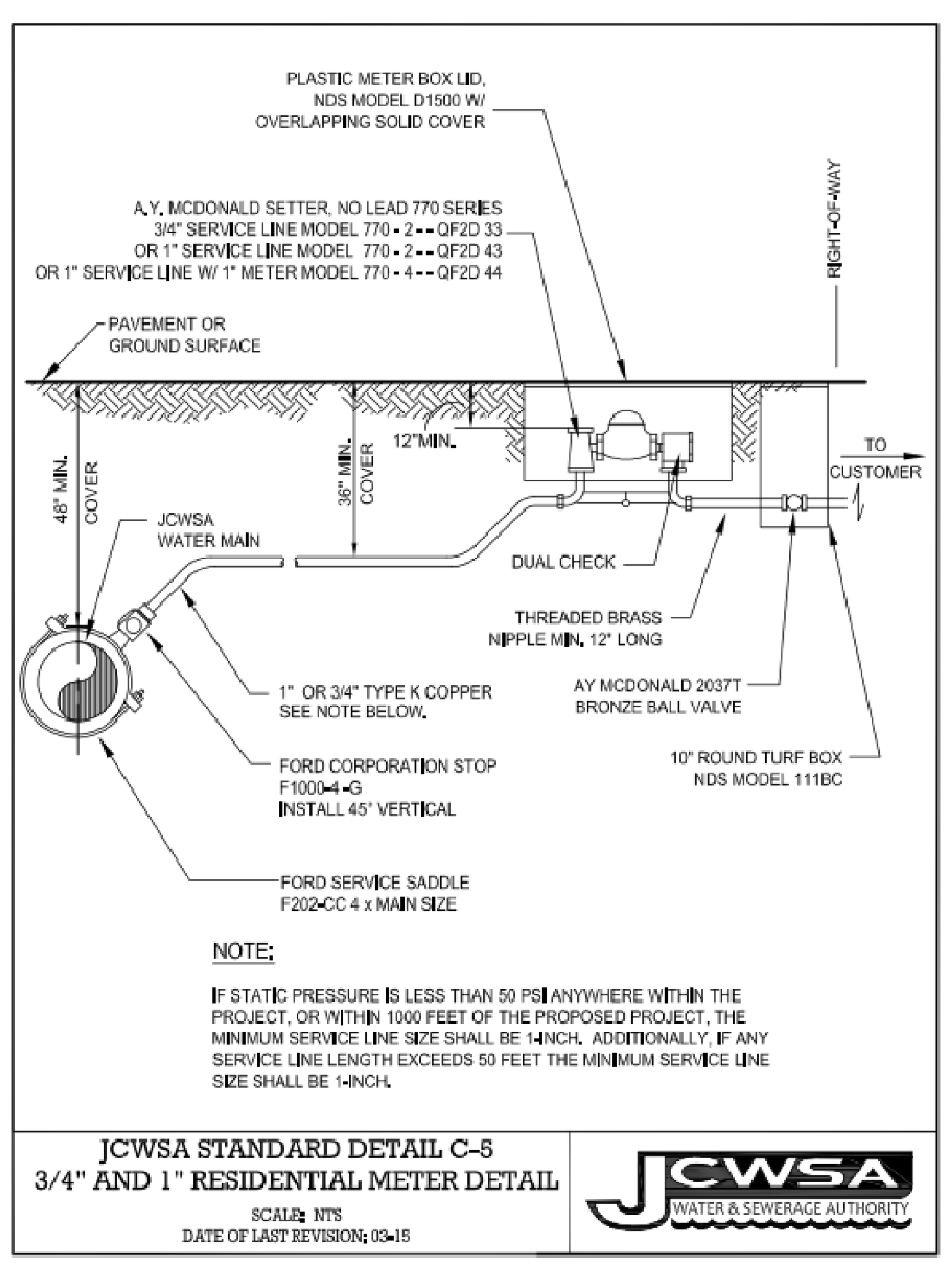
D3

SHEET


DOUBLE CHECK ASSEMBLY INSTALLATION
TEST COCKS FITTED W/ BRASS OR PLASTIC PLUGS OR CAPS
8" TO 18"
SEE DETAIL 1 (BELOW)
SEALED WITH EXPANSION FOAM OR SILICONE CAULK ON BOTH SIDES
6" MIN. TO TOP OF GRAVEL
BALL VALVES POSITIONED SO THEY CAN BE OPENED FULLY
Note: Gravel must be minimum of 6" depth and be clean and compacted. Crush and Run is not acceptable
DOUBLE CHECK ASSEMBLY DETAIL
BOX WALL
BACKFLOW ASSEMBLY
DETAIL 1
INSIDE VIEW
JCWSA Standard Double Check Assembly
Page 1 of 3


FOUNDATION VARIATIONS
STANDARD BOX
COMPACTED EARTH
MORTAR JOINTS
INSTALLATION #1
LEDGE DETAIL
TOP VIEW
INSTALLATION #2
INSTALLATION #3
NOTE:
OTHER TYPES OF INSTALLATION MAY BE NECESSARY DUE TO VARYING FIELD CONDITIONS. CONSULT WITH INSPECTOR BEFORE INSTALLING THE DEVICE.
JCWSA Standard Double Check Assembly
Page 2 of 3


ASSEMBLY VARIATIONS
SEALER BOTH SIDES
PIPING ALTERNATE #1
SIDE VIEW
PIPING ALTERNATE #2
TOP VIEW
PIPING ALTERNATE #3
TOP VIEW
PIPING ALTERNATE #4
TOP VIEW
NOTES:
ASSEMBLIES SHOULD BE CENTERED IN THE BOX TO ALLOW ACCESS FOR TESTING AND REPAIR.
BOX MUST NOT REST ON THE WATERLINE.
JCWSA Standard Double Check Assembly
Page 3 of 3


PLASTIC METER BOX LID, NDS MODEL D1500 W/ OVERLAPPING SOLID COVER
PAVEMENT OR GROUND SURFACE
RIGHT-OF-WAY
12" MIN.
TO CUSTOMER
JCWSA WATER MAIN
DUAL CHECK
THREADED BRASS NIPPLE MIN. 12" LONG
1" OR 3/4" TYPE K COPPER SEE NOTE BELOW.
A.Y. MCDONALD 2637T BRONZE BALL VALVE
10" ROUND TURF BOX NDS MODEL 111BC
FORD CORPORATION STOP
INSTALL 45° VERTICAL
FORD SERVICE SADDLE
NOTE:
IF STATIC PRESSURE IS LESS THAN 50 PSI ANYWHERE WITHIN THE PROJECT, OR WITHIN 1000 FEET OF THE PROPOSED PROJECT, THE MINIMUM SERVICE LINE SIZE SHALL BE 1-INCH. ADDITIONALLY, IF ANY SERVICE LINE LENGTH EXCEEDS 50 FEET THE MINIMUM SERVICE LINE SIZE SHALL BE 1-INCH.
JCWSA STANDARD DETAIL C-8
3/4" AND 1" RESIDENTIAL METER DETAIL
SCALE: NTS
JCWSA
WATER & SEWERAGE AUTHORITY

DATE	NO.	DESCRIPTION
12/14/15	1	SUBMIT FOR INITIAL REVIEW
01/06/16	2	ADDRESS GASWCC COMMENTS
01/26/16	3	REVISE PLAN TO RELOCATE STORMWATER POND

REVISION

EMI ENGINEERING MANAGEMENT
Experience • Trust • Solutions
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

JACKSON COUNTY GOVERNMENT NEW EMS STATION

LOCATED IN G.M.D. 455
JACKSON COUNTY, GEORGIA

PROJECT

WATER SYSTEM DETAILS

SHEET TITLE

DESIGN BY	DRAWN BY	CHECKED BY
KLP	KLP	DWB

GEORGIA REGISTERED NO. 26331 PROFESSIONAL ENGINEER KENNETH LEE PETERS

STAMP

12/01/15
DATE

15037
JOB NUMBER

z:\projects
FILE LOCATION

D4

SHEET