RENOVATIONS & ADDITIONS

FULTON COUNTY

SITE DATA

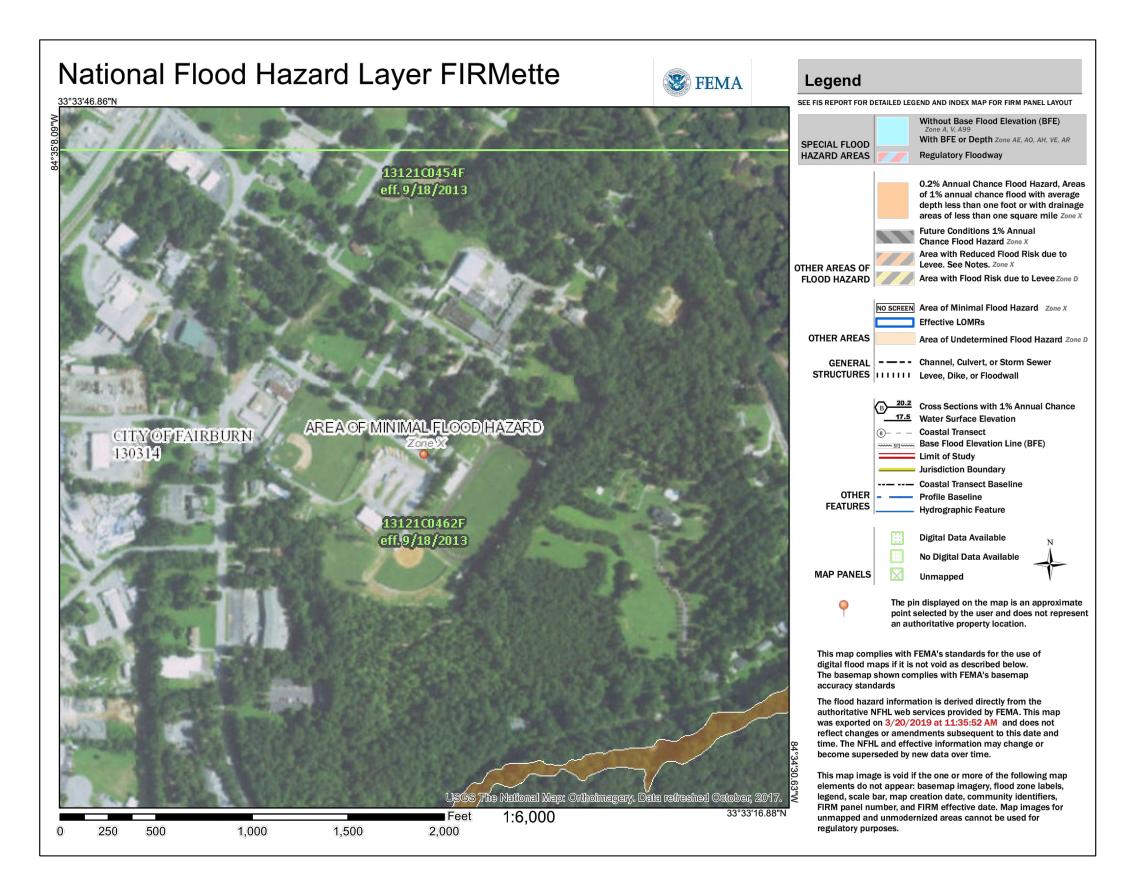
ZONING USE: R2

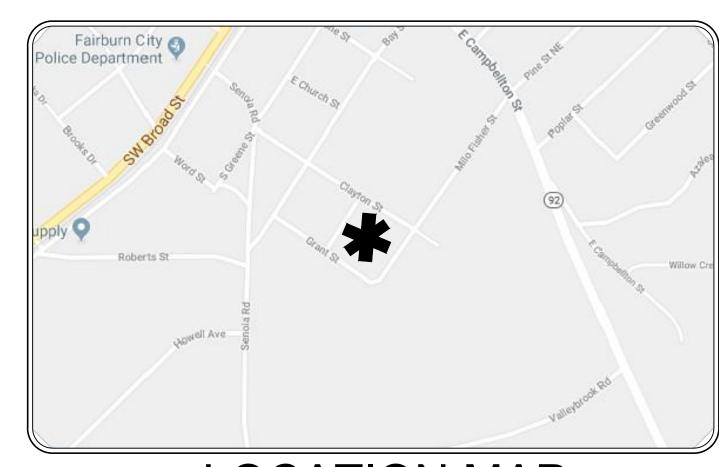
TOTAL ACREAGE: 28.89 AC DISTURBED ACREAGE: 2.4 AC

FULTON COUNTY, GA LAND LOT 52: 6th DISTRICT PARCEL #: 09F100900520100 09F100900520118

BUILDING DATA

BUILDING SQUARE FOOTAGE: EXISTING: 51978.03 sq. ft.





LOCATION MAP

SHEET TITLE SHEET NO. COVER SHEET & GENERAL NOTES OVERALL PLAN SITE DEMOLITION PLAN SITE LAYOUT & STAKING PLAN C4.01 GRADING PLAN UTILITY PLAN C5.01 UTILITY PROFILES C6.01 C7.01 CONSTRUCTION DETAILS C7.02 CONSTRUCTION DETAILS II C7.03 CONSTRUCTION DETAILS III EC1.0 ES&PC NOTES ES&PC NOTES INITIAL ES&PC PLAN INTERMEDIATE ES&PC PLAN FINAL ES&PC PLAN EC2.2 ES&PC DETAILS ES&PC DETAILS ES&PC DETAILS TREE PROTECTION/REPLACEMENT PLAN TP1.0 TP1. TREE PROTECTION DETAILS

NO PORTION OF THIS PROPERTY LIES IN THE FLOOD HAZARD ZONE AE AS PER THE FULTON COUNTY F.I.R.M. COMMUNITY PANEL NO.13121CO462F DATED SEPTEMBER 18TH 2013.

CONSTRUCTION ENTRANCE GPS LOCATION OF CONSTRUCTION EXITS: 33.5608° N, 84.5785° W

SCOPE OF WORK

THIS INCLUDES REMOVAL OF EXISTING CLASSROOM BUILDINGS ONSITE AND TO STABILIZE GROUND COVER FOLLOWING REMOVAL

 $^{\prime}$ EBERLY & ASSOCIATES IS NOT RESPONSIBLE FOR N.P.D.E.S. WATER QUALITY MONITORING, $^{\circ}$ REPORTING OF MONITORING RESULTS TO THE E.P.D., OR RETENTION OF MONITORING & INSPECTION RECORDS. CONTRACTOR IS RESPONSIBLE FOR RETAINING THE SERVICES OF QUALIFIED N.P.D.E.S. WATER QUALITY MONITORING PERSONNEL

LEGEND TRAFFIC FLOW PARKING BAY COUNT CONC. PAVING LIGHT DUTY PAVING HEAVY DUTY PAVING CONC. SIDEWALK DRAINAGE FLOW PROPOSED CONTOUR PROPOSED SPOT ELEVATION PROPOSED STORM SEWER $A - 3 \quad A = 4$ PROPOSED STORM INLET PROPOSED HEADWALL CLEARING LIMITS SANITARY SEWER/MANHOLE WATER MAIN/VALVE FIRE HYDRANT BACK FLOW PREVENTOR

DOUBLE DETECTOR CHECK

—w———w——

O"WM & DDC

IN VAULT

GENERAL NOTES

- 2. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND WAYS, MEANS
- AND METHODS OF CONSTRUCTION
- ALL NECESSARY LICENSES AND PERMITS 4. PROJECT BENCHMARK: , EL. XXXX.XX'.

1. THE DISTURBED ACREAGE OF THE SITE IS 2.4 ACRES.

- 5. VERIFY BUILDING DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIELD
- 6. PROVIDE AND MAINTAIN OFF-STREET PARKING THROUGHOUT CONSTRUCTION IN AREAS DESIGNATED BY THE OWNER.
- 7. FIELD VERIFY LOCATION AND INVERTS OF EXISTING SANITARY SEWER FOR CONNECTION TO EXISTING SEWER SYSTEM.
- 8. PROVIDE SIGNING AND STRIPING ACCORDING TO LOCAL JURISDICTION
- 9. PERFORM ALL WORK IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
- 10. THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE 24. STRIP AND STOCKPILE TOPSOIL. SPREAD 4" OF TOPSOIL ON LANDSCAPE WORK, REPAIR ALL DAMAGES MADE TO EXISTING UTILITIES AT NO COST TO AREAS AND REMOVE EXCESS TOPSOIL FROM SITE, PREPARE SUB GRADE FOR 38. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO
- 11. CALL UTILITIES PROTECTION CENTER 811
- 12. THE BOUNDARY INFORMATION ON THESE PLANS IS TAKEN FROM FIELD
- 13. THE TOPOGRAPHIC INFORMATION ON THESE PLANS IS TAKEN FROM FIELD
- 14. PERFORM ALL WORK IN CITY, COUNTY, STATE, AND FEDERAL RIGHTS-OF-WAY IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.

- 15. PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY WITHIN THE RIGHT-OF-WAY FOR THE PROTECTION AND THE SAFETY OF THE PUBLIC AND
- 3. COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND OBTAIN 16. UNLESS INDICATED OTHERWISE ON THE PLANS, REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS, TREES AND OTHER DEBRIS, WITHIN THE LIMITS OF THE WORK, FROM THE SITE AND DISPOSE OF IN AN APPROVED LANDFILL.
 - DO NOT BURY ANY WASTE MATERIAL ON SITE. 17. FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE CONSTRUCTION IS STARTED. WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL
 - 18. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.

MAINTAIN THROUGHOUT CONSTRUCTION.

- 19. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO CONSTRUCTION ACTIVITIES
- 20. REFER TO TREE PROTECTION PLANS FOR TREE CLEARING LIMITS.
- 21. VERIFY EXISTING TOPOGRAPHIC DATA, LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- 22. CUT AND FILL SLOPES 2:1 OR FLATTER (SEE PLANS). 23. GRASS AND RIP RAP ALL OPEN DRAINAGE SWALES AS NECESSARY TO
- CONTROL EROSION.
- PAVEMENT AND CURBS AND BACK FILL CURBS AFTER CURB CONSTRUCTION. 25. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
- SURVEYS PREPARED BY JACOB & HEFNER ASSOCIATES DATED: 03/05/2019. 26. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.
- SURVEYS PREPARED BY JACOB & HEFNER ASSOCIATES DATED: 03/05/2019. 27. CONFINE OFF-SITE ACTIVITIES TO EXISTING RIGHTS OF WAY AND EASEMENTS. 28. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
 - 29. COORDINATE WITH BUILDING PLUMBING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.

- 30. INSTALL GATE VALVES IN HEAVY DUTY ROADWAY VALVE BOXES FOR ALL
- 31. AT COMPLETION OF SEWER AND WATER CONSTRUCTION, SET ALL MANHOLES, VALVE BOXES, METERS AND APPURTENANCES FOR PROPER FINISH GRADE. NOTICEABLY STAKE AND FLAG. SITE UTILITY SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE ABOVE ITEMS UNTIL SYSTEM IS ACCEPTED BY OWNER.
- 32. INSTALL HYDRANTS AND MAINS UNDER PRESSURE BEFORE ANY COMBUSTIBLE
- 33. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- 34. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT. READY TO USE. FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB.
- 35. CHECK ALL BUILDING DIMENSIONS AND COORDINATE WITH THE ARCHITECTURAL PLANS.
- 36. PAINT PAVEMENT MARKING, INCLUDING STANDARD HANDICAP SYMBOLS, PARKING STRIPING AND TRAFFIC ARROWS, ON PAVEMENT AT LOCATIONS SHOWN. SEE PAVEMENT MARKING DETAIL.
- 37. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.
- CLEARING GRADING AND DEMOLITION WORK. MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES UNTIL ACCEPTANCE OF THE SITE BY THE
- 39. ALL GRADING AND SITE PREPARATION SHALL CONFORM WITH SPECIFICATIONS CONTAINED IN REPORT OF GEOTECHNICAL INVESTIGATION PREPARED BY _____ DATED ____.
- 40. ON-SITE FIRE PROTECTION SYSTEM LAYOUTS ARE SHOWN FOR LAND DISTURBANCE PERMIT INFORMATION ONLY. PROVIDE FINAL DESIGN AND PERMIT FROM THE FIRE PROTECTION CONTRACTOR, INSTALL VAULTS, METERS, MAINS, HYDRANTS, AND APPURTENANCES ONLY AFTER FIRE DEPARTMENT APPROVAL OF THE FIRE PROTECTION CONTRACTOR'S PLANS.
- 41. ALL FIRE PROTECTION SYSTEMS SHALL COMPLY WITH NFPA SECTION 6.6 REGARDING SECTIONAL VALVES UNLESS OTHERWISE SPECIFIED BY THE FIRE PROTECTION ENGINEER.

OWNER/DEVELOPER LANDMARK CHRISTIAN SCHOOL

50 SE BROAD STREET FAIRBURN, GA 30213 (770) 306-0647

ENGINEER

ANTONIO SAMPLE, E.I.T. EBERLY & ASSOCIATES, INC. 2951 FLOWERS RD S, SUITE 119 ATLANTA, GEORGIA 30341 (770) 452-7849

24 HOUR CONTACT SARAH MCCRACKEN (404) 965-3350



ISSUANCES	
Drawing Issue	Date
DEMO SUBMITTAL	04/26/19
	Drawing Issue

Landmark Christian School Renovations

Landmark Christian School

COVER SHEET & GENERAL

ANTONIO SAMPLE ANTONIO SAMPLE

03/25/2019

NOT ISSUED FOR CONSTRUCTION

- 1. THE FIELD DATA ON WHICH THIS PLAT IS BASED WAS COMPLETED ON FEBRUARY 28, 2019
- 2. THE FIELD DATA ON WHICH THIS PLAT IS BASED HAS A CLOSURE OF ONE FOOT IN 97,139 FEET AND AN ANGULAR ERROR OF 1" PER ANGLE, AND WAS ADJUSTED USING LEAST SQUARES.
- 3. UNDERGROUND UTILITY MARKINGS (PAINT) WERE PROVIDED BY RHD SERVICES.
- 4. LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES ARE PROVIDED BY VISIBLE ACCESSIBLE FIELD EVIDENCE. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS SURVEY. UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS CONSULTANTS, AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THIS SURVEYOR IS NOT RESPONSIBLE FOR THE SUFFICIENCY OF THE UNDERGROUND UTILITY INFORMATION PROVIDED HEREON.
- 5. ELEVATIONS WERE DETERMINED THROUGH GPS OBSERVATIONS AND REFERENCED TO NAVD88.



SSMH TOP=1017.27 INV IN= 1014.67(NW)8" INV IN= 1014.77(SW)8" INV OUT= 1014.57(NE)8"

GEORGIA SURVEYOR CERTIFICATION

THIS PLAT IS A RETRACEMENT OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL OR MAKE ANY CHANGES TO ANY REAL PROPERTY BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS OR OTHER INSTRUMENTS WHICH CREATED THE PARCEL OR PARCELS ARE STATED HEREON. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.



JACOB & HEFNER
ASSOCIATES

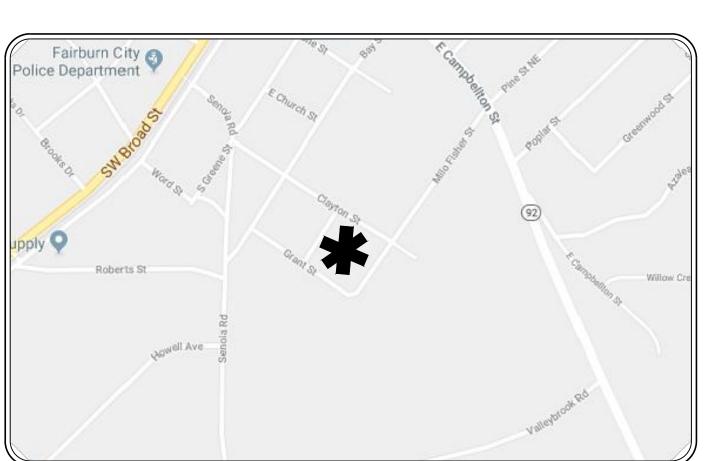
3440 Blue Springs Road NW, Suite 503-K, Kennesaw, GA 60515 PHONE: (678) 569-2418, FAX: (630) 652-4601 www.jacobandhefner.com

BOUNDARY & TOPOGRAPHIC SURVEY FOR:

LANDMARK CHRISTIAN SCHOOL

LOCATED IN LAND LOT 52, DISTRICT 9F FULTON COUNTY, GEORGIA CITY OF FAIRBURN

Survey No.:	F627
Ordered By.:	WINTER CONST. PAUL MILEY
Description:	BOUNDARY & TOPO
ate Prepared:	3-5-2019
Scale: 1"=	60'



LOCATION MAP

ISSUANCES Drawing Issue 1 DEMO SUBMITTAL 04/26/19

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OWNER/DEVELOPER LANDMARK CHRISTIAN SCHOOL 50 SE BROAD STREET FAIRBURN, GA 30213

ENGINEER

ANTONIO SAMPLE, E.I.T. EBERLY & ASSOCIATES, INC. 2951 FLOWERS RD S, SUITE 119 ATLANTA, GEORGIA 30341 (770) 452-7849

24 HOUR CONTACT SARAH MCCRACKEN

(IN FEET)
1 inch = 60 ft.

FREE THROUGHOUT THE U.S.A.



KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

Project Manager

ANTONIO SAMPLE

Project Engineer C1.02

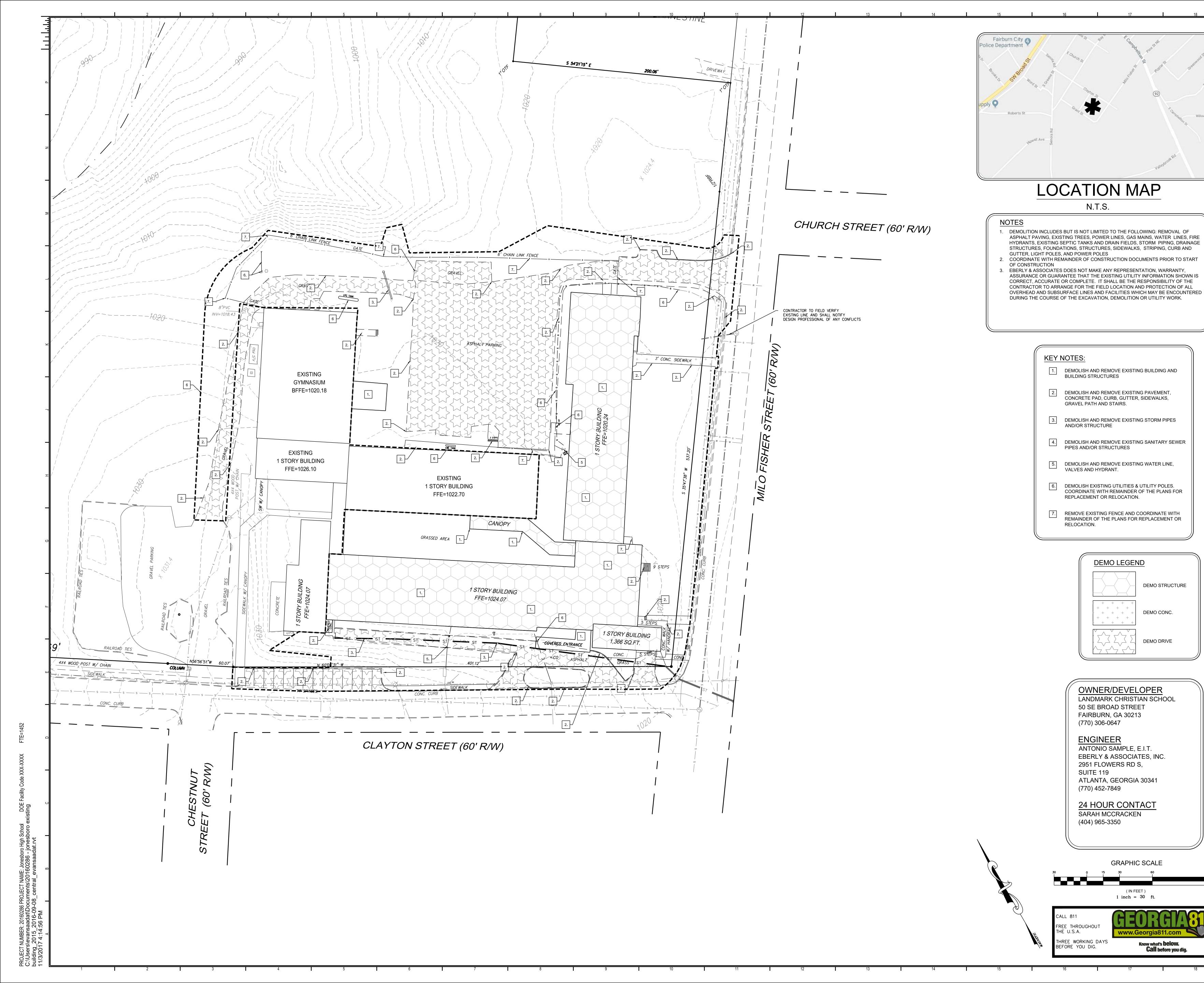
Landmark Christian School

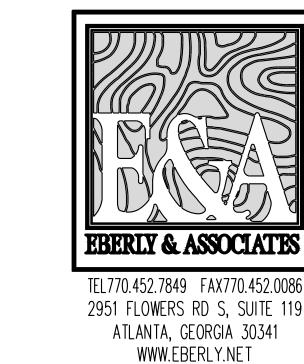
Renovations

Landmark Christian High School

Landmark Christian School

OVERALL LAYOUT PLAN





ISSUANCES 1 DEMO SUBMITTAL

Landmark Christian School Renovations

Landmark Christian High School

Landmark Christian School

SITE DEMOLITION PLAN

DEMO STRUCTURE

DEMO CONC.

DEMO DRIVE

1 inch = 30 ft.

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

KEVIN EDWARDS

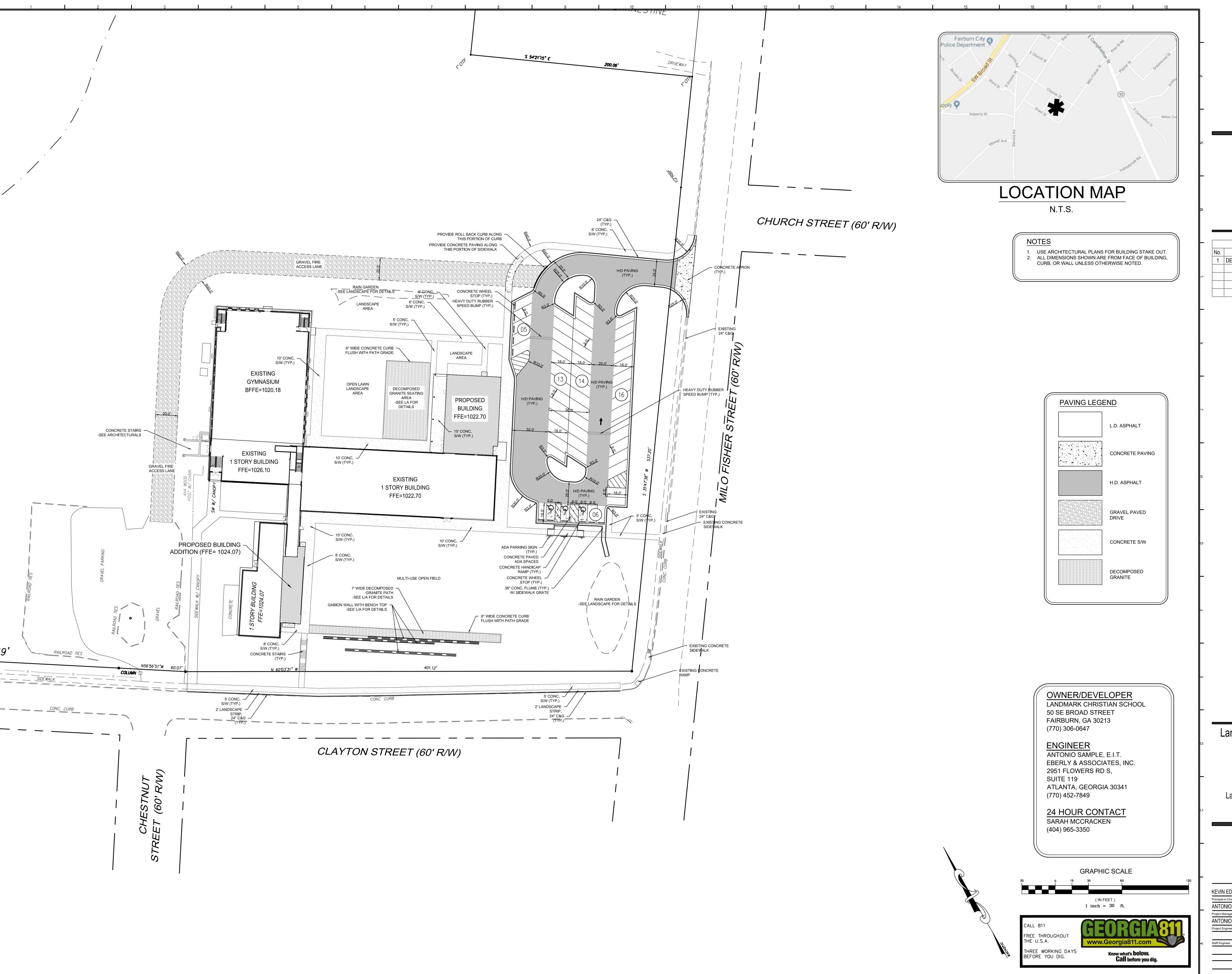
Principal-in-Charge

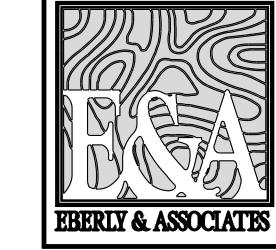
ANTONIO SAMPLE

Project Manager

ANTONIO SAMPLE

Project Engineer





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ISSUANCES				
No.	Drawing Issue	Date		
1	DEMO SUBMITTAL	04/26/19		

Landmark Christian School Renovations

Landmark Christian High School Landmark Christian School

SITE LAYOUT &

STAKING PLAN

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

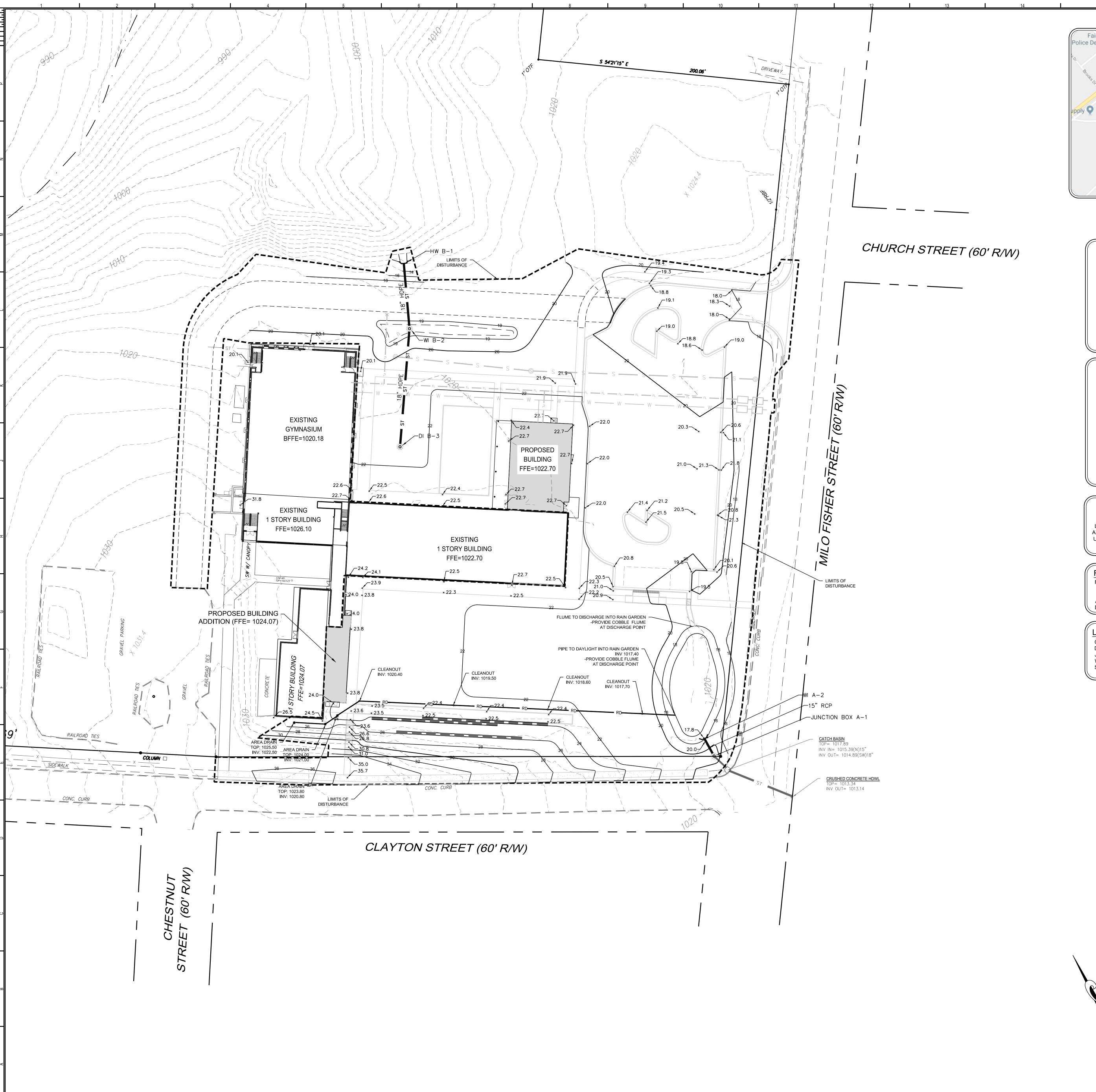
Project Manager

ANTONIO SAMPLE

Project Engineer

19-033 Project No. 03/25/2019

C3.01





LOCATION MAP

N.T.S.

GRADING NOTES

- CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER AND STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
 NO GRADED SLOPE SHALL EXCEED 2H:1V
- 3. AT ALL POINTS ALONG THE PUBLIC RIGHT OF WAY WHERE THE EXISTING CURB HEIGHT IS LESS THAN 6 INCHES, THE EXISTING CURB SHALL BE REMOVED AND REPLACED OR RESET TO MINIMUM COA AND THE SIDEWALK REPLACED OR RESET TO MINIMUM CLAYTON COUNTY REQUIREMENTS AND THE SIDEWALK REPLACED.

CONTRACTOR SHALL OBTAIN A HAUL ROUTE PERMIT FROM THE DEPARTMENT OF

PUBLIC WORKS- BUREAU OF TRAFFIC AND TRANSPORTATION.

5. ALL ROOF LEADERS FROM THE PROPOSED BUILDING ARE TO CONNECT TO THE STORMWATER MANAGEMENT VAULT ABOVE THE 100-YR ELEVATION. SEE PLUMBING PLANS FOR DETAILS. CONTACT ENGINEER WITH DISCREPANCIES PRIOR TO

ADA NOTES

- RUNNING SLOPE OF RAMPS AND CURB RAMPS SHALL NOT EXCEED 8.33%. IF THE VERTICAL RISE IS LESS THAN 6", THEN HANDRAILS ARE NOT REQUIRED.
- MEASURED IN ANY DIRECTION.
 THE GROUND SURFACE WITHIN THE REQUIRED MANEUVERING CLEARANCE AT ACCESSIBLE DOORS THAT ARE PART OF THE ACCESSIBLE ROUTE CANNOT EXCEED 2% WHEN MEASURED IN ANY DIRECTION.
 GAPS OR OPENINGS ALONG THE ACCESSIBLE ROUTE MUST BE NO MORE THAN 1/2" WIDE.

SLOPE AT THE INTERSECTIONS OF ACCESSIBLE ROUTES SHALL NOT EXCEED 2% WHEN

- FOR ADA ROUTES, FORWARD SLOPES SHALL NOT EXCEED 5.0% AND CROSS SLOPES SHOULD NOT EXCEED 2.0%.
 RAMPS TO BE SLOPED A MAXIMUM OF 8.33% WITH HANDRAILS ON EACH SIDE. LANDINGS TO
- BE PROVIDED EVERY 30" IN RISE.

 7. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS AND CROSSWALKS WITH A 2.0% MAXIMUM CROSS SLOPE AND A 5.0% MAXIMUM RUNNING SLOPE, UNLESS NOTED AS A RAMP. GRADES WITHIN ADA HANDICAP PARKING AREAS NOT TO EXCEED A 2% MAXIMUM SLOPE IN ANY DIRECTION.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL OWNER PRIOR OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES, PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS 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 OPERATIONS AROUND THE UTILITY. CALL THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 BETWEEN 7:00 AM AND 7:00 PM MONDAY THRU FRIDAY.

RETAINING WALL GRADING NOTE

FOR ALL CALLOUTS ON RETAINING WALLS SHOWN,

TWG= GRADE AT TOP OF WALL

BWG= GRADE AT BOTTOM OF WALL

ACTUAL TOP OF WALL HEIGHT TO BE USED FOR RETAINING WALL

DESIGN SHOULD BE 3" MINIMUM ABOVE TWG PROVIDED.

LEGEND

- CI CURB INLET (HOODED INLET W/ GRATE) 1019A (TYPE "E")
 DI DROP INLET 1019A (TYPE "A")
 JB JUNCTION BOX- 1011A
- WI WEIR INLET 1019A (TYPE "B") SSMH- SANITARY SEWER MANHOLE - 1011A

OWNER/DEVELOPER
LANDMARK CHRISTIAN SCHOOL
50 SE BROAD STREET
FAIRBURN, GA 30213
(770) 306-0647

ENGINEER ANTONIO SAMPLE, E.I.T. EBERLY & ASSOCIATES, INC. 2951 FLOWERS RD S,

SUITE 119 ATLANTA, GEORGIA 30341 (770) 452-7849

(404) 965-3350

24 HOUR CONTACT SARAH MCCRACKEN

GRAPHIC SCALE

0 15 30 60

(IN FEET)

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THREE WORKING DAYS

BEFORE YOU DIG.

1 inch = 30 ft.

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ISSUANCES

No. Drawing Issue Date

1 DEMO SUBMITTAL 04/26/19

Landmark Christian School Renovations

Landmark Christian High School
◆

Landmark Christian School

GRADING PLAN

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

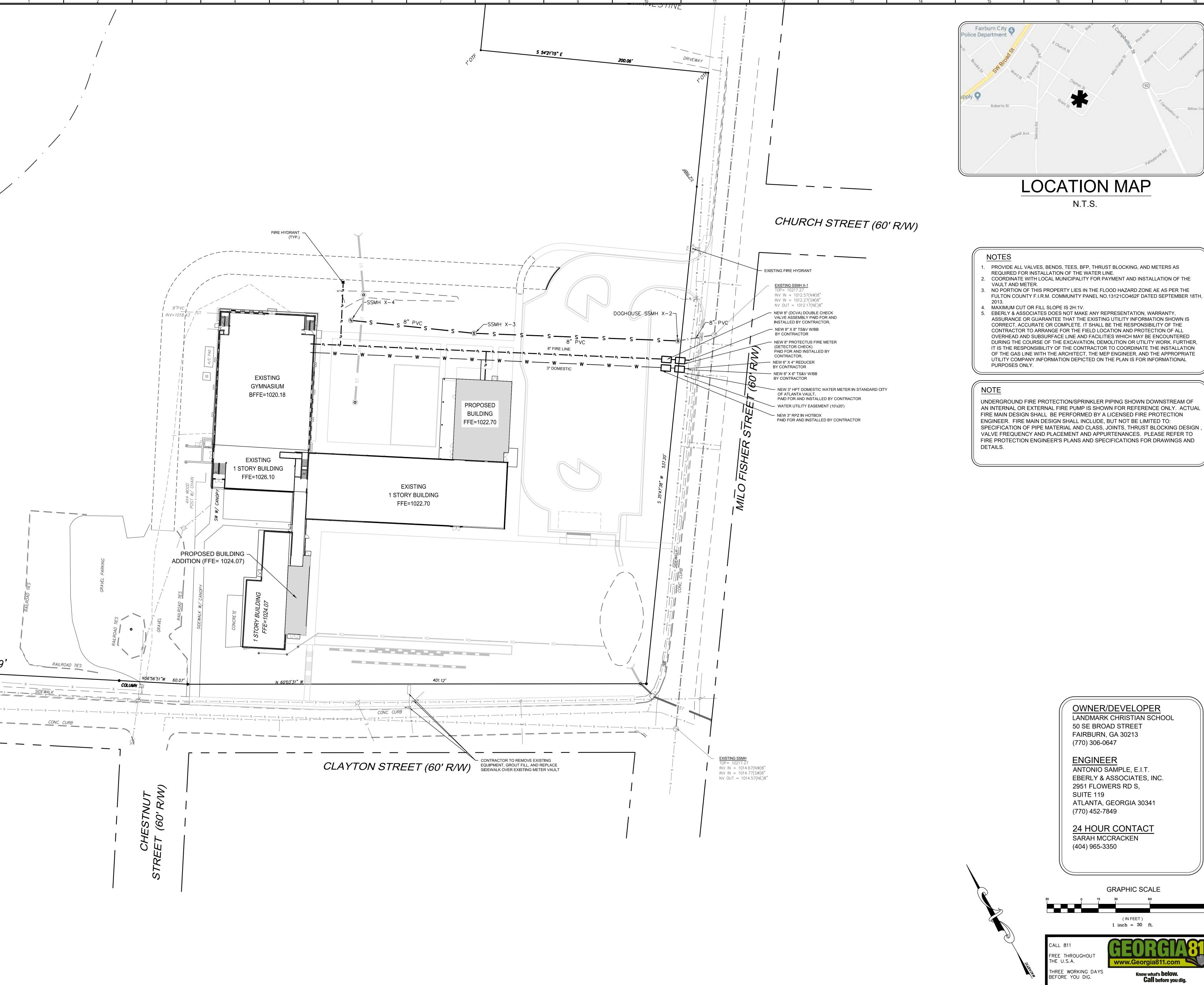
Project Manager

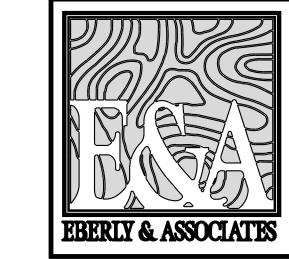
ANTONIO SAMPLE

Project Engineer

C4.01

ISSUED FOR CONSTRUC





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ISSUANCES

No. Drawing Issue Date

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Landmark Christian School Renovations

Landmark Christian High School

◆

Landmark Christian School

SITE UTILITY PLAN

120 |

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

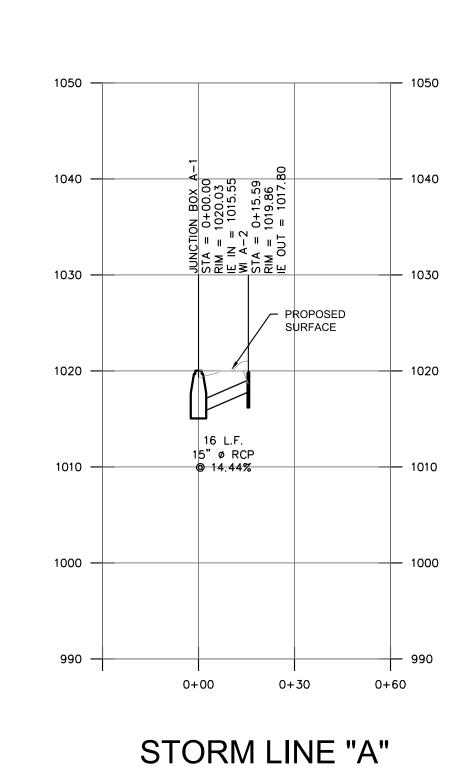
Project Manager

ANTONIO SAMPLE

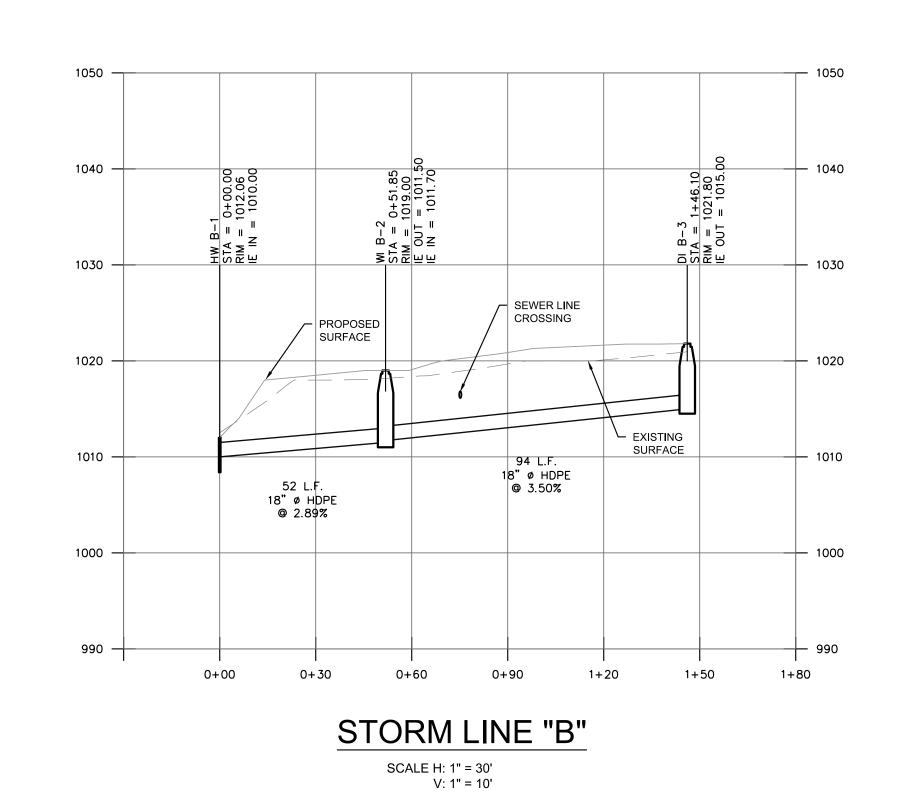
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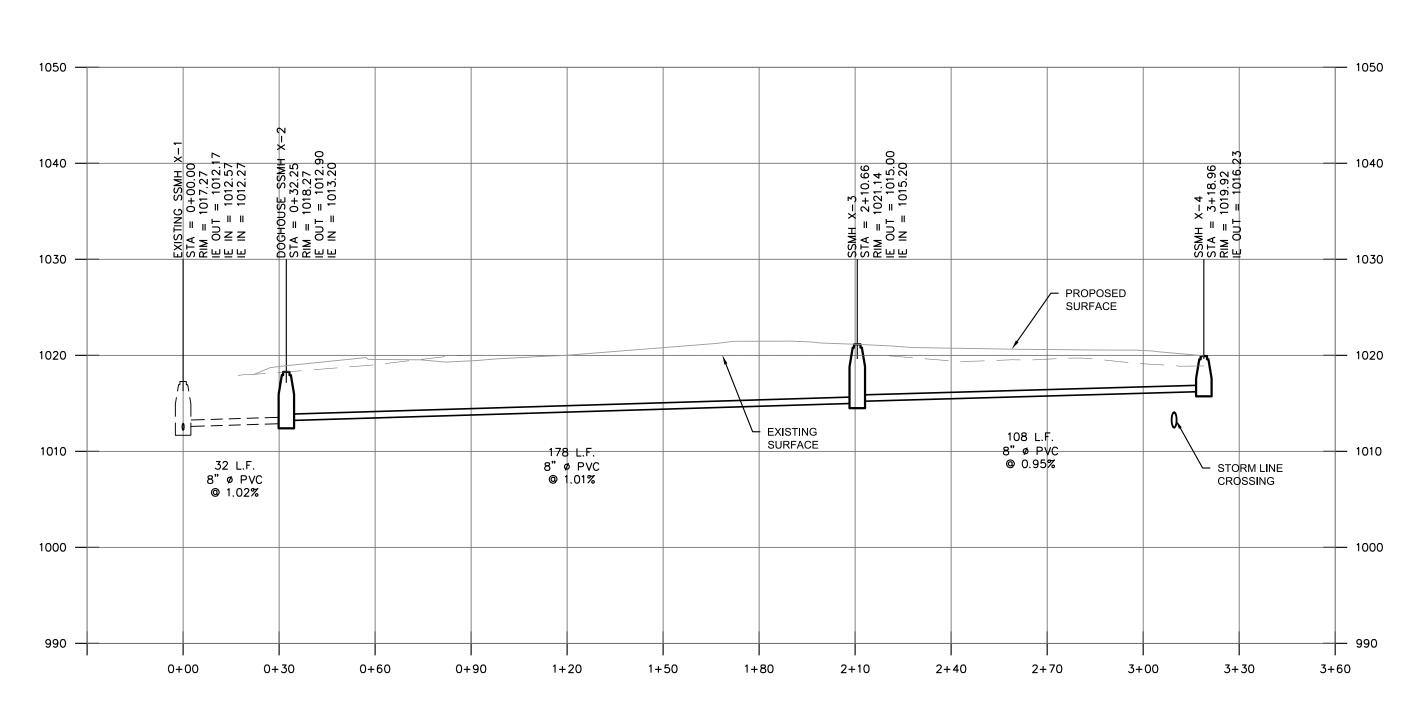
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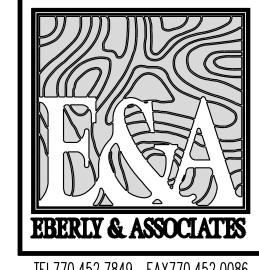
SCALE H: 1" = 30' V: 1" = 10'





SANITARY SEWER LINE "X"

SCALE H: 1" = 30'
V: 1" = 10'



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	ISSUANCES	
No.	Drawing Issue	Date
1	DEMO SUBMITTAL	04/26/19

Landmark Christian School Renovations

Landmark Christian High School

◆

Landmark Christian School

UTILITY PROFILES

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

Project Manager

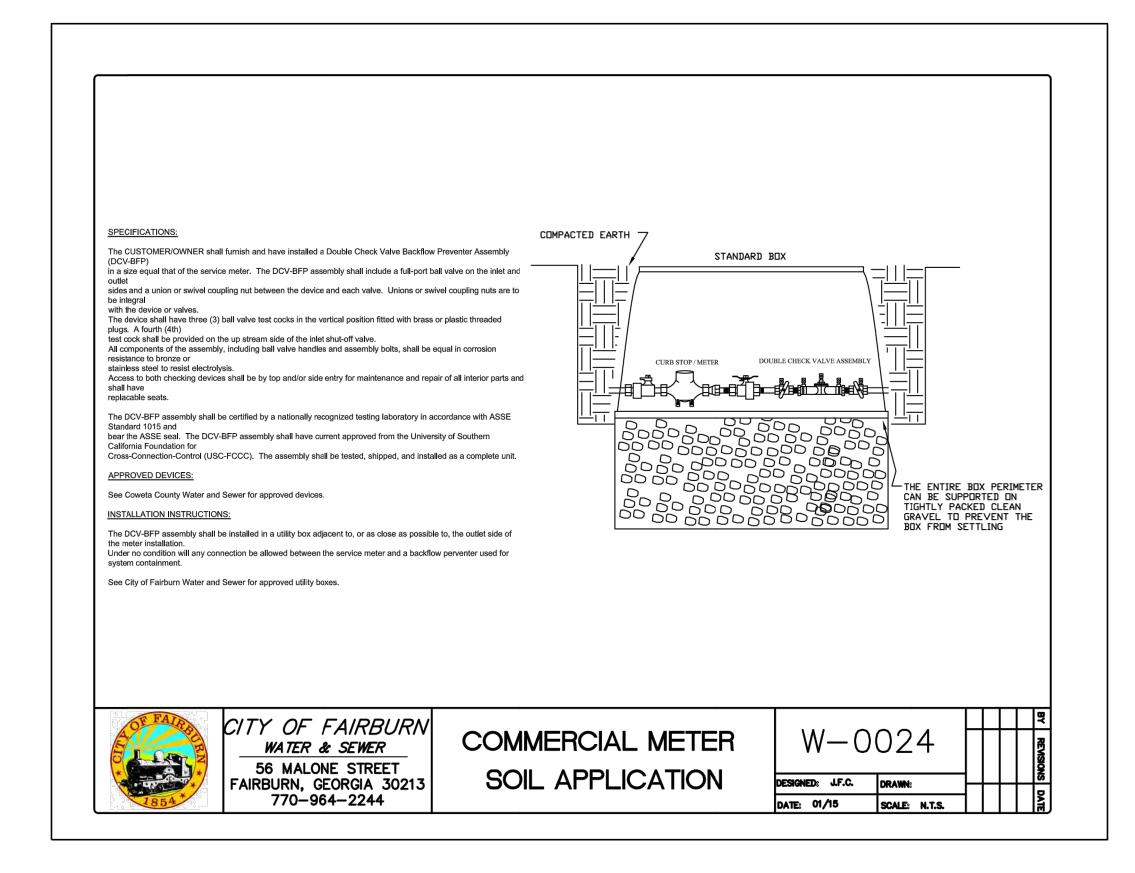
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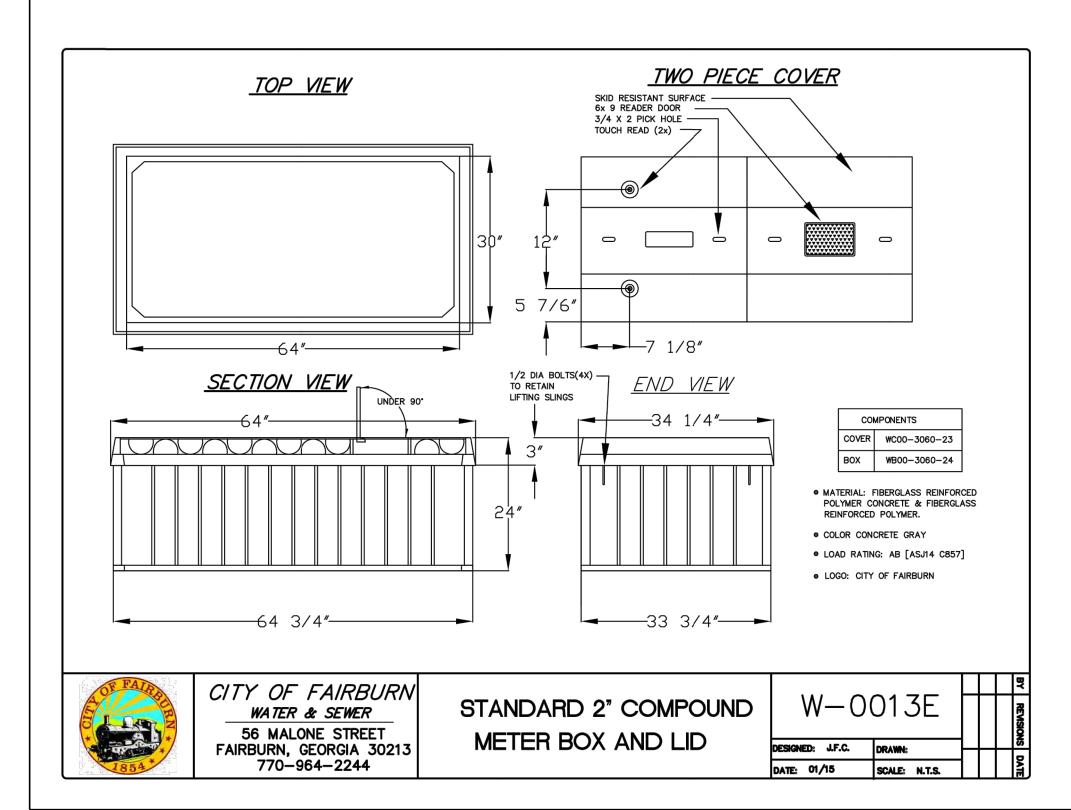
Project Engineer

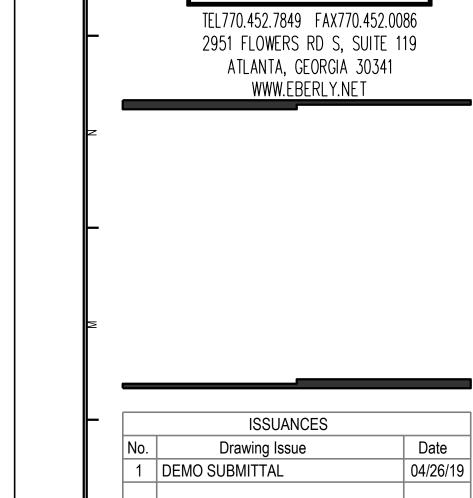
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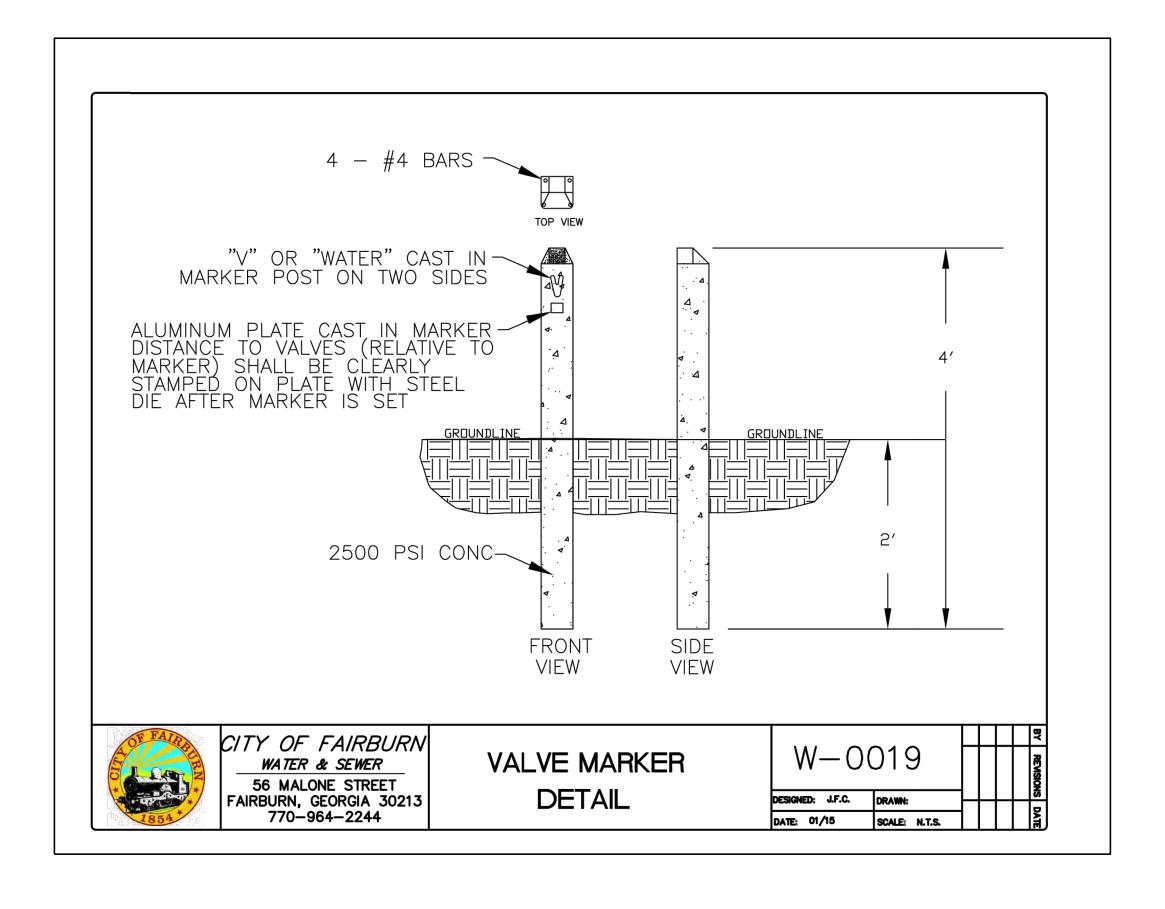
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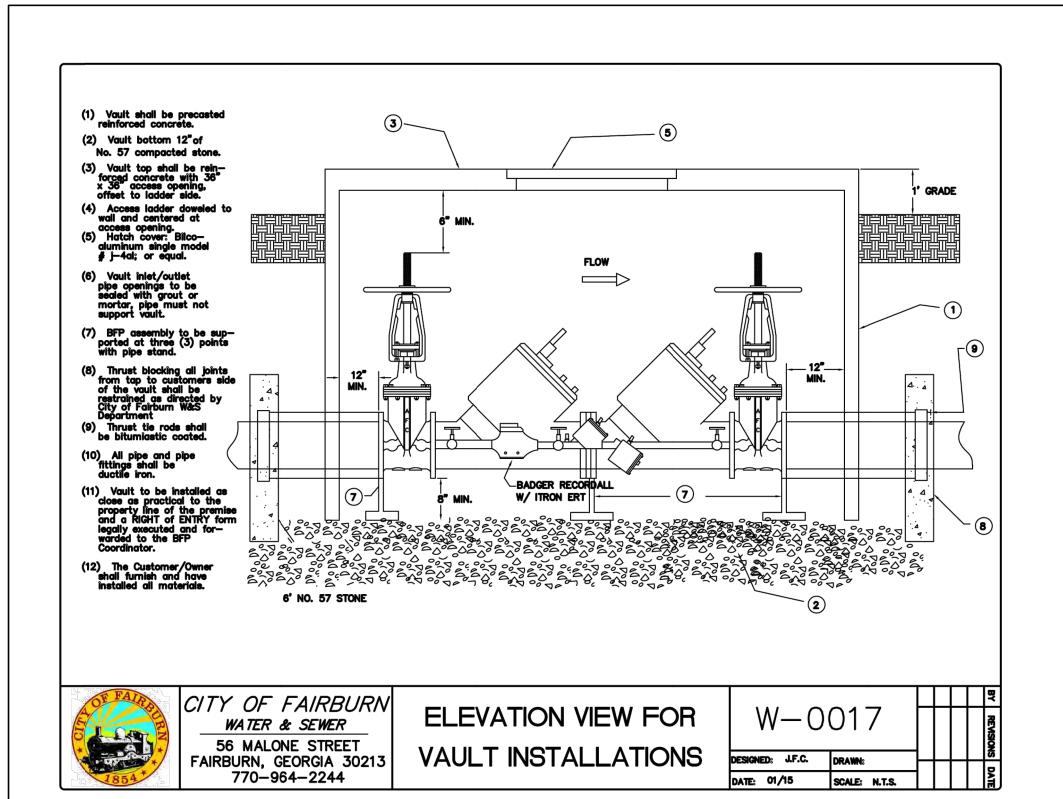


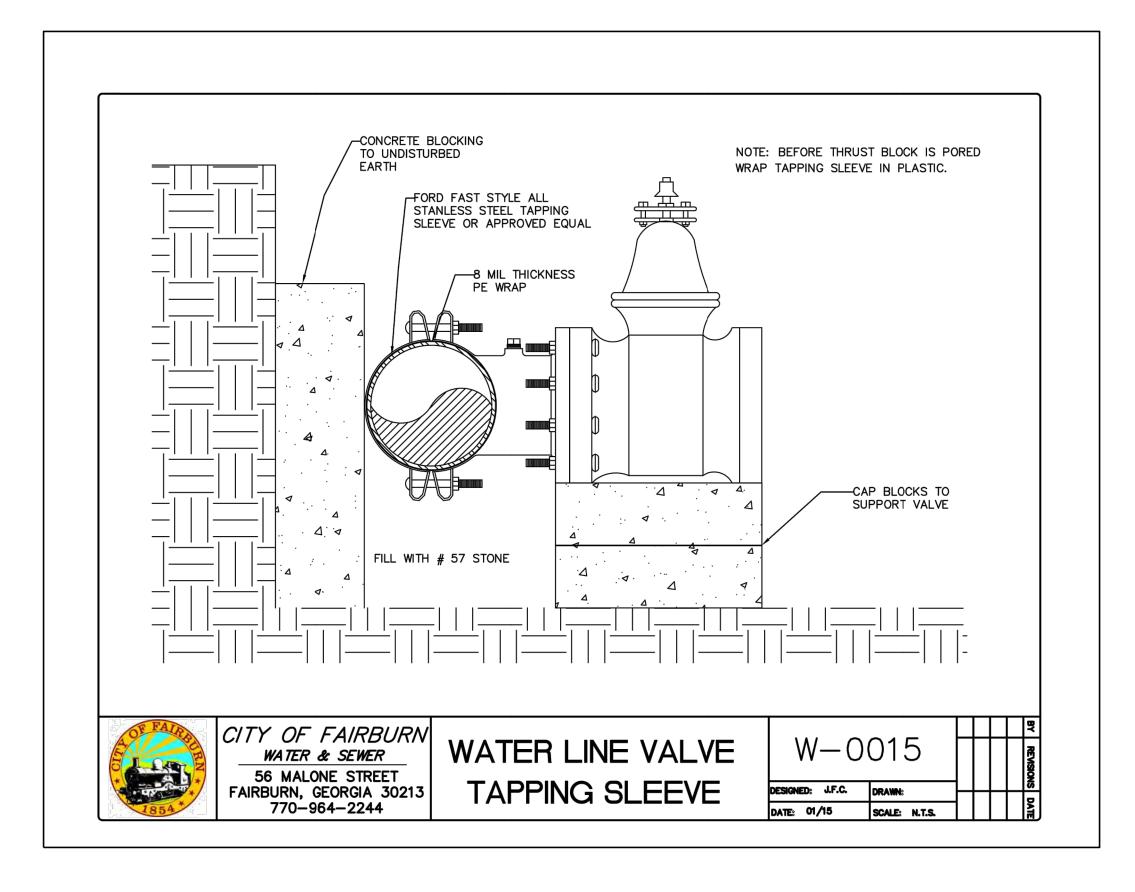


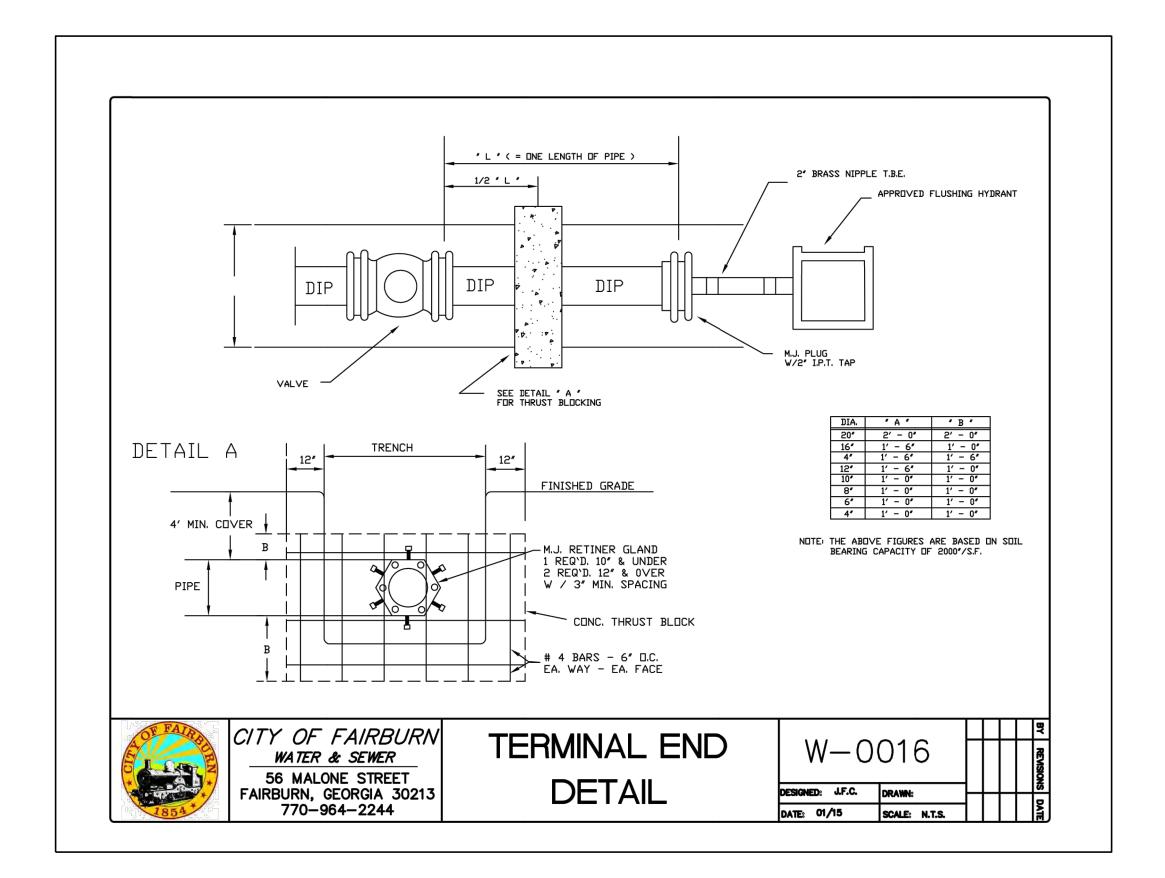


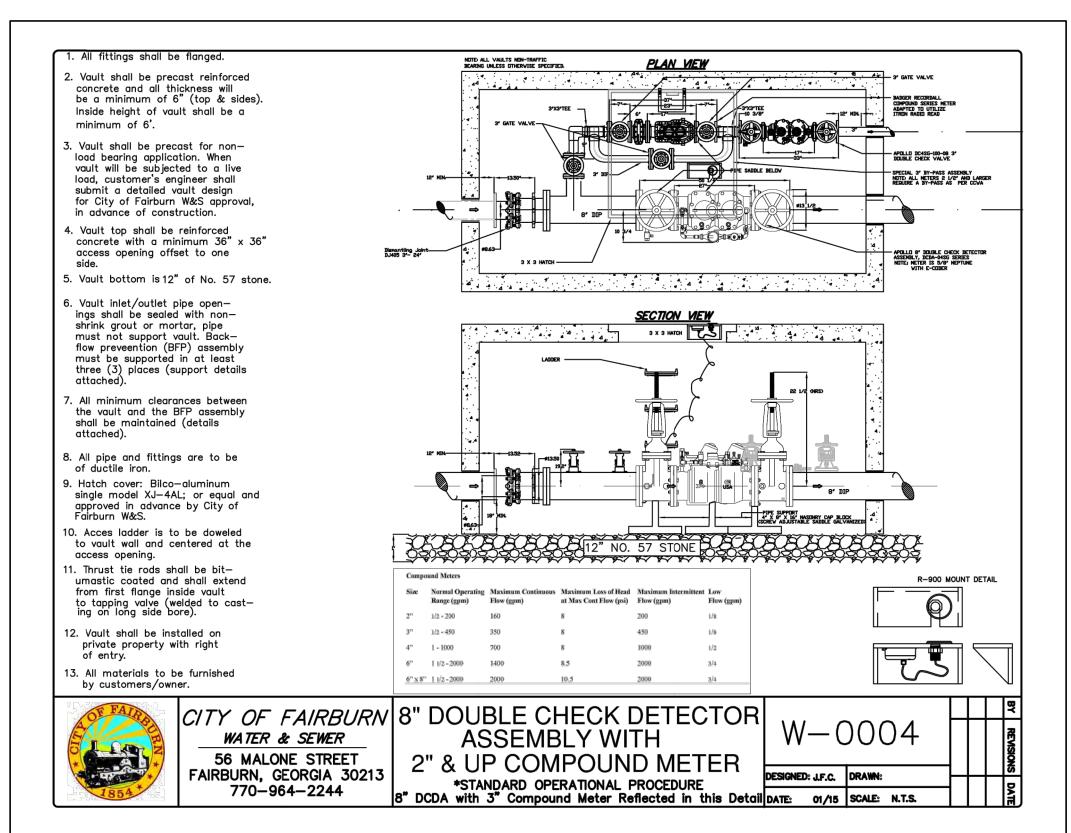
EBERLY & ASSOCIATES

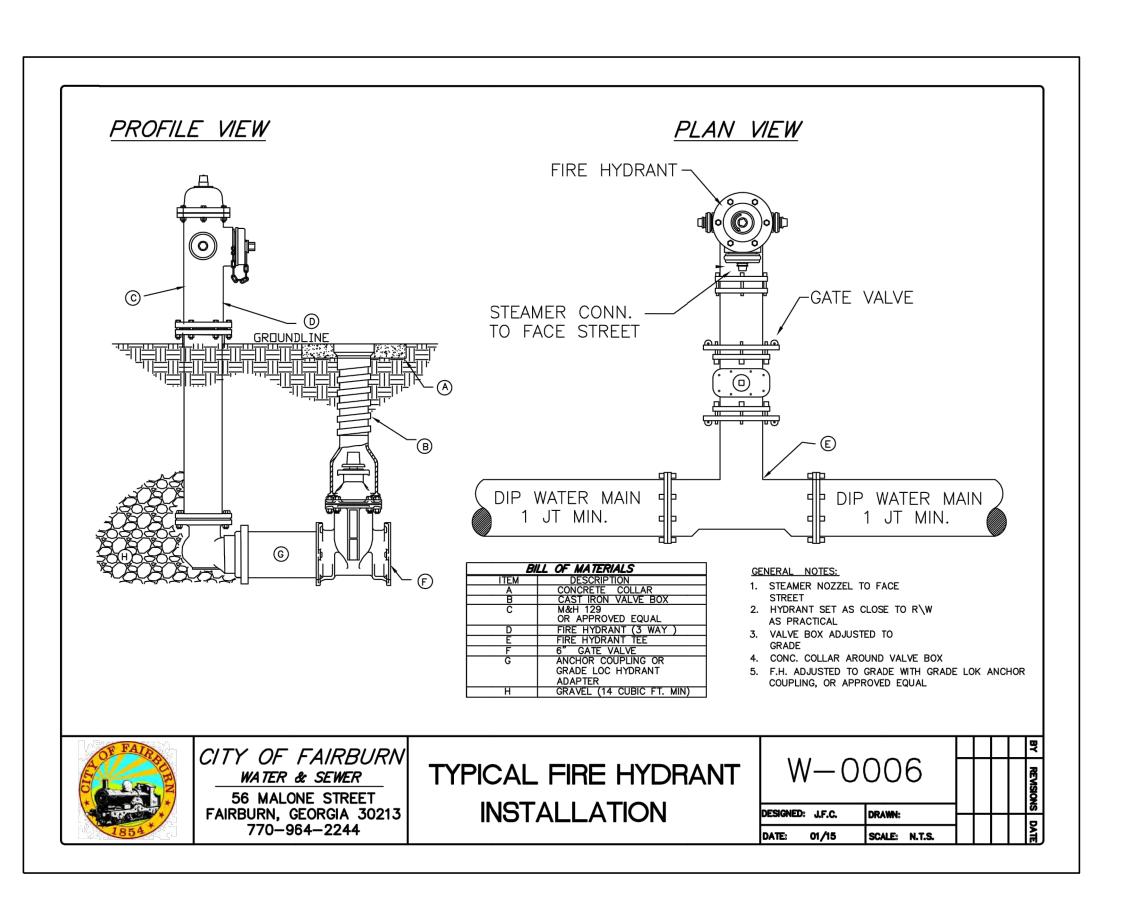














Landmark Christian High School

CONSTRUCTION DETAILS

Landmark Christian School

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KEVIN EDWARDS

Principal-in-Charge
ANTONIO SAMPLE

Project Manager
ANTONIO SAMPLE

Project Engineer

Staff Engineer

19-033

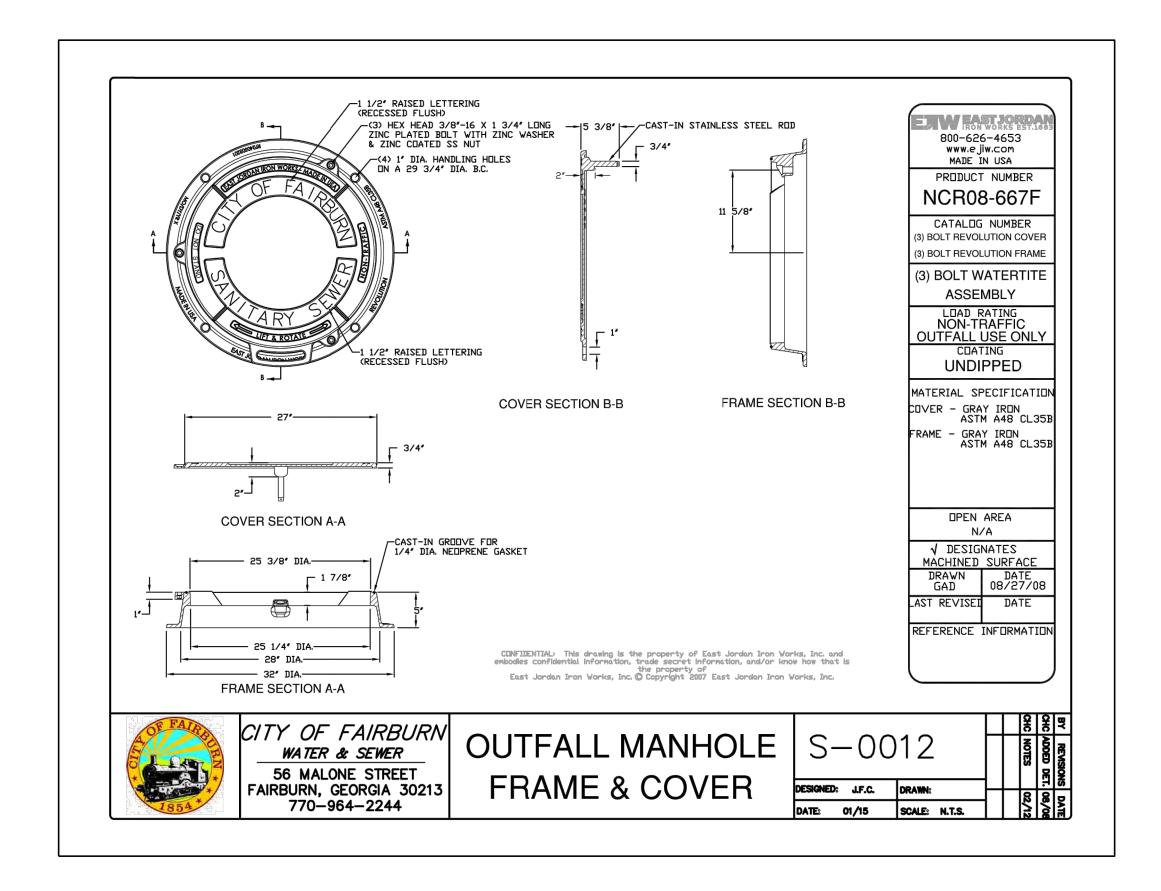
Project No.
03/25/2019

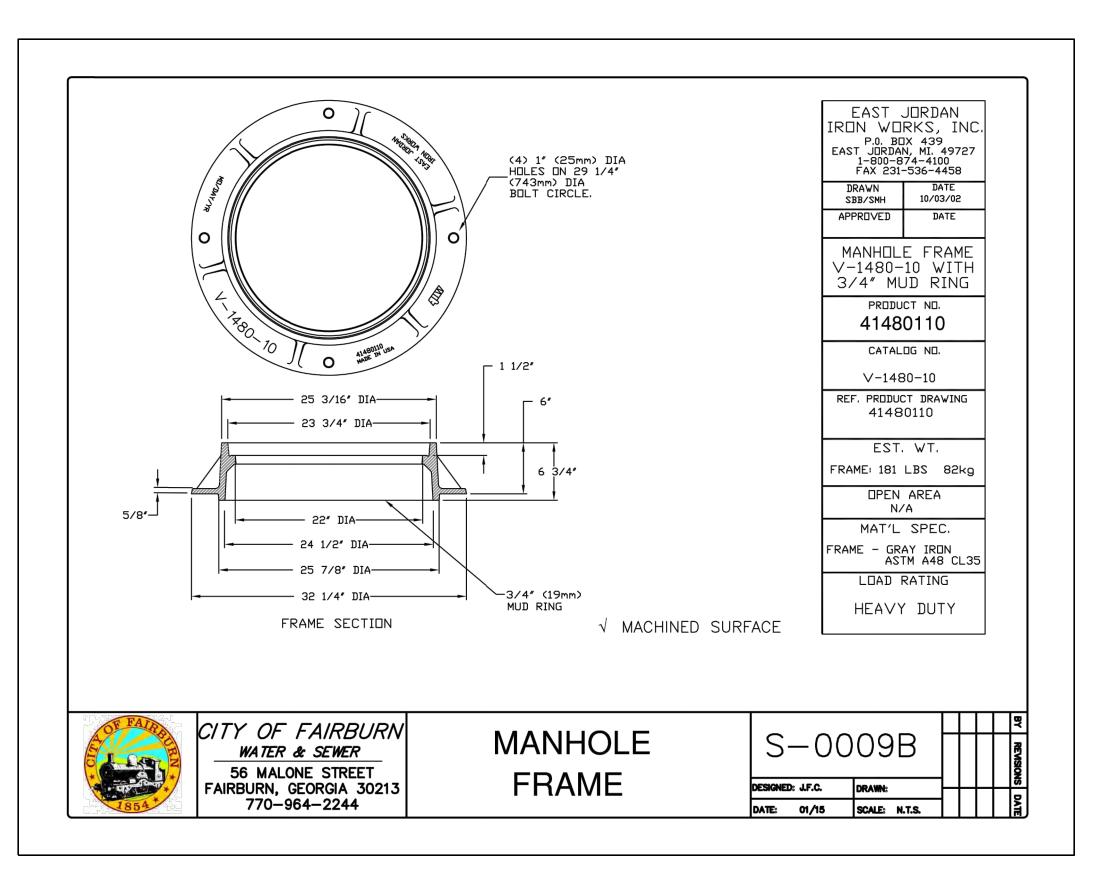
Date

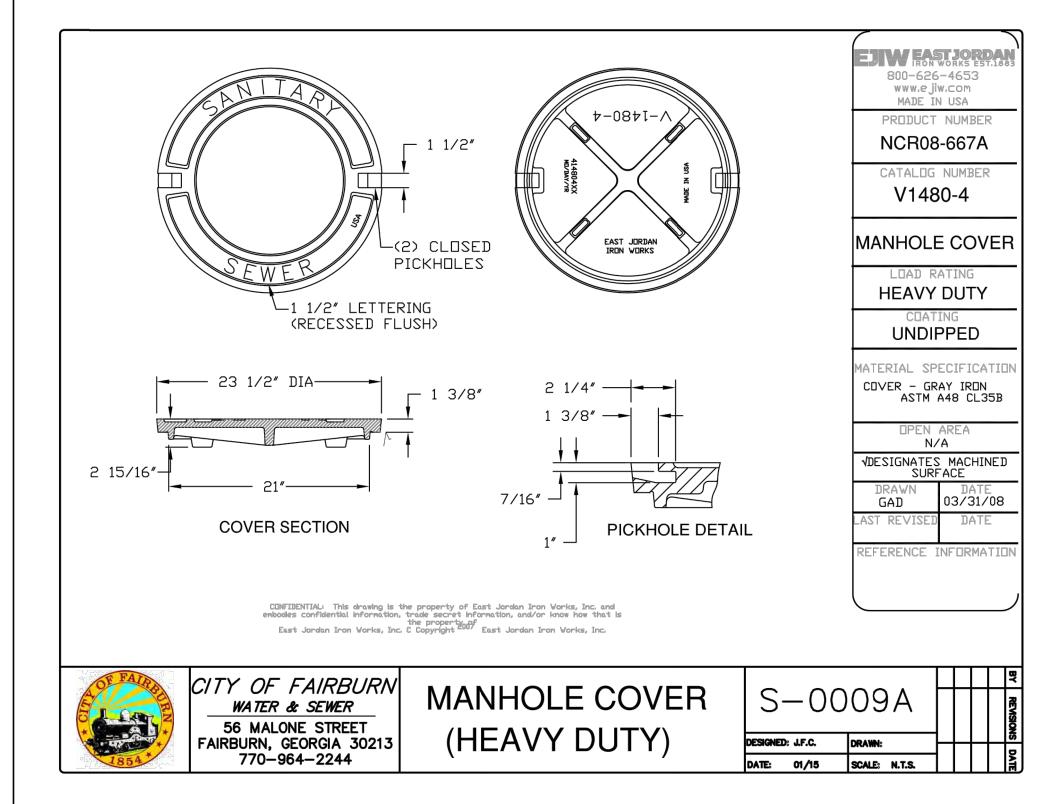
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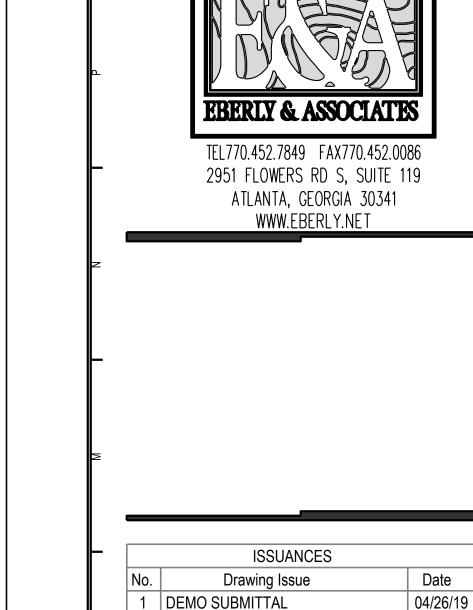
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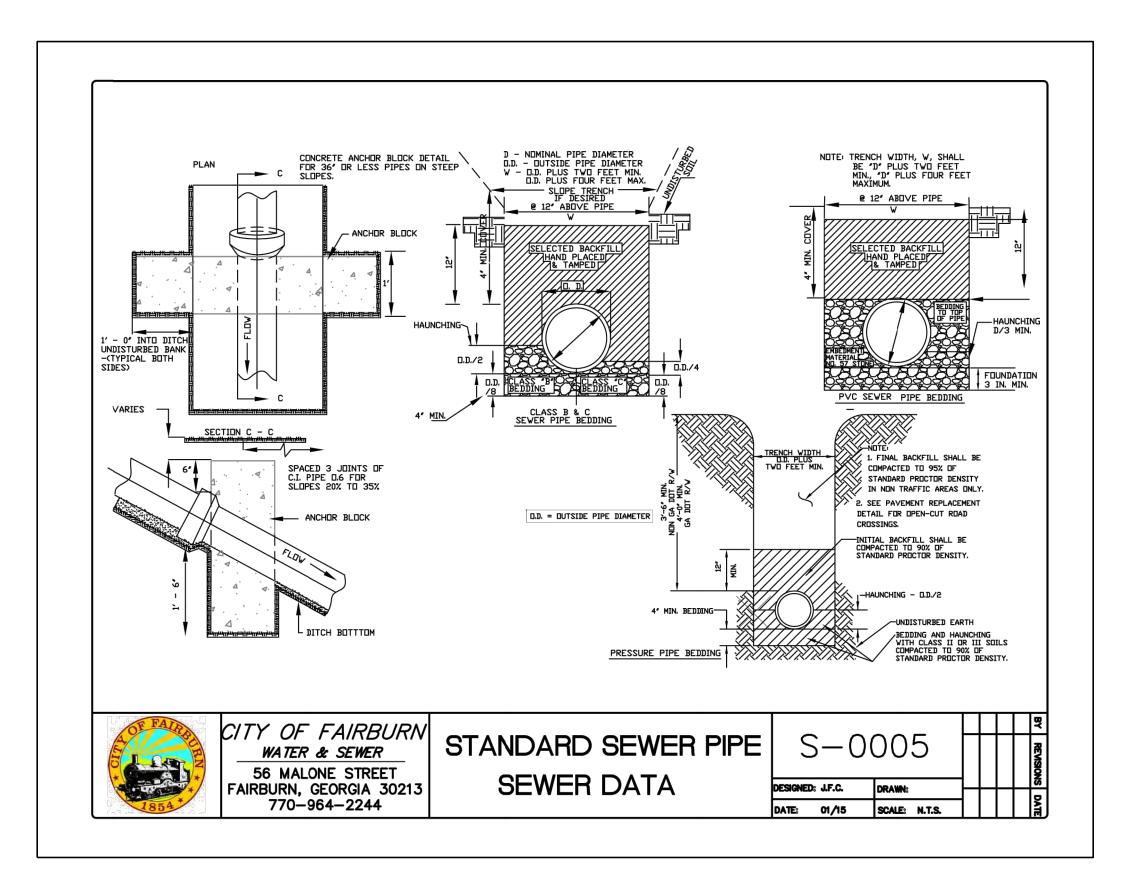
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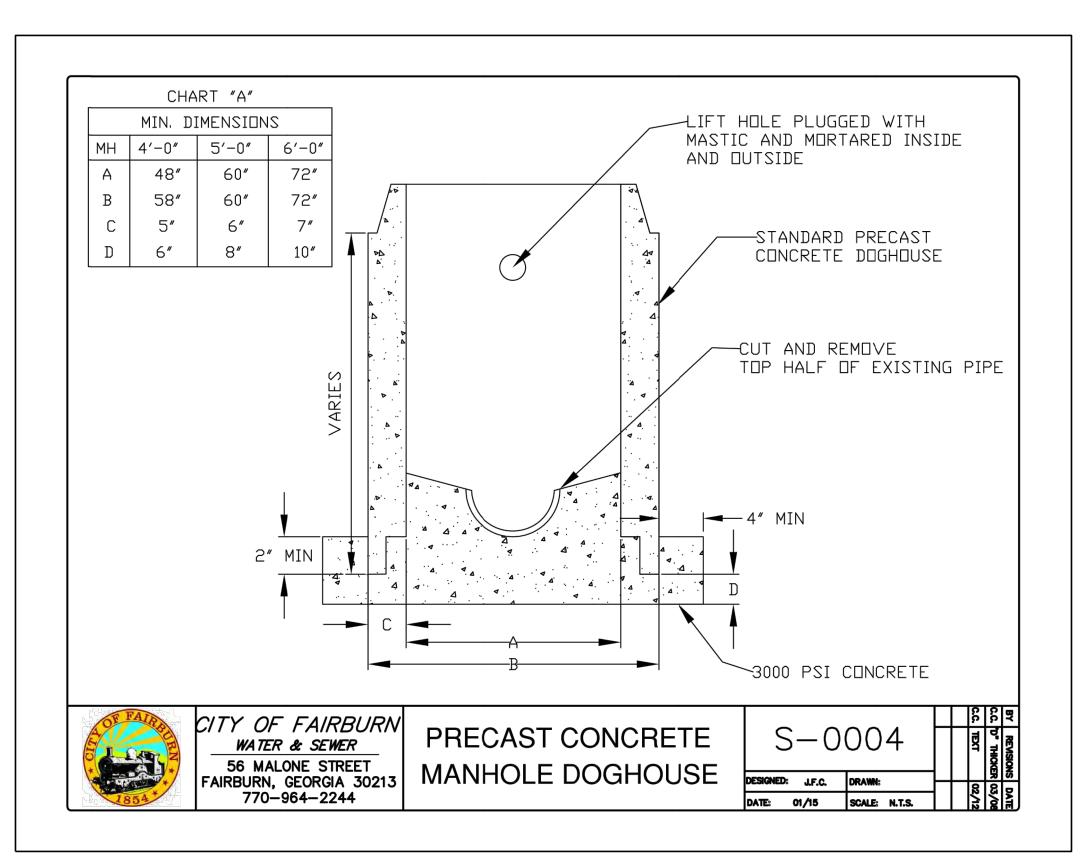


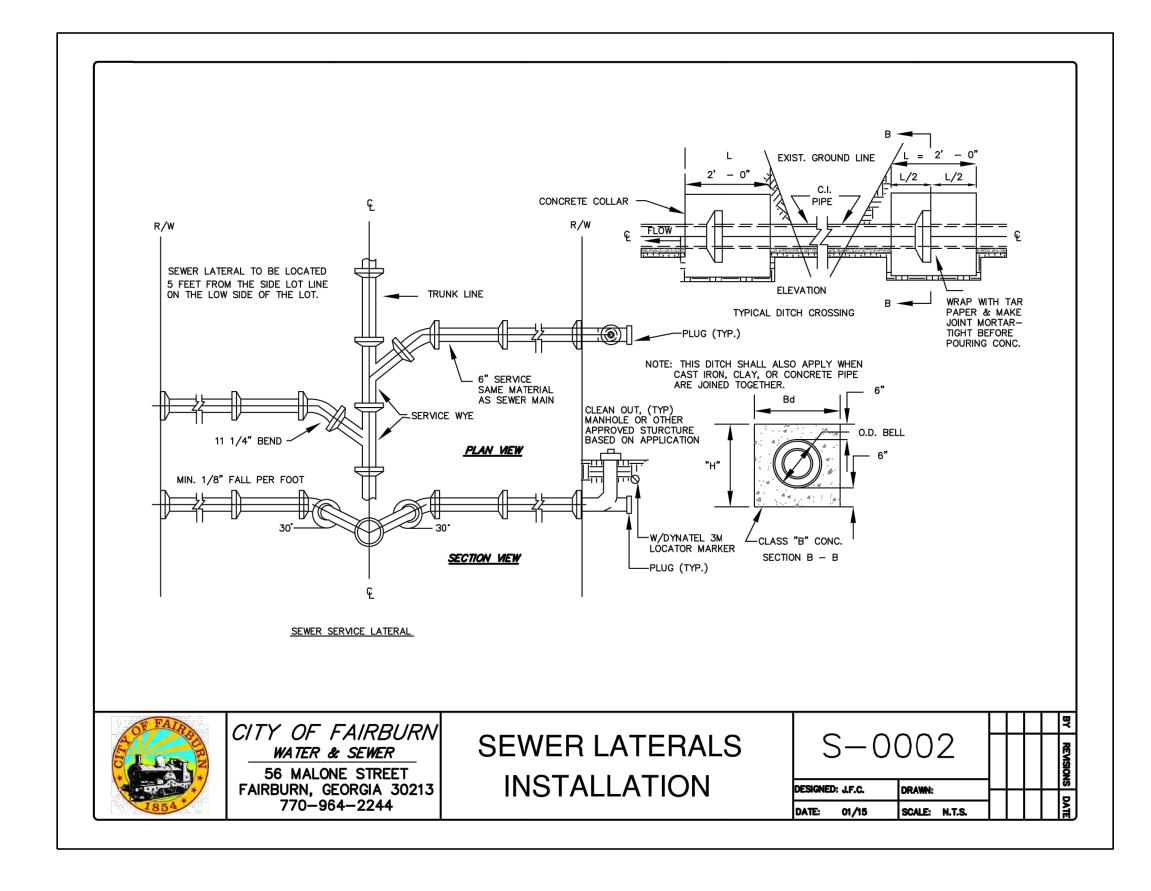


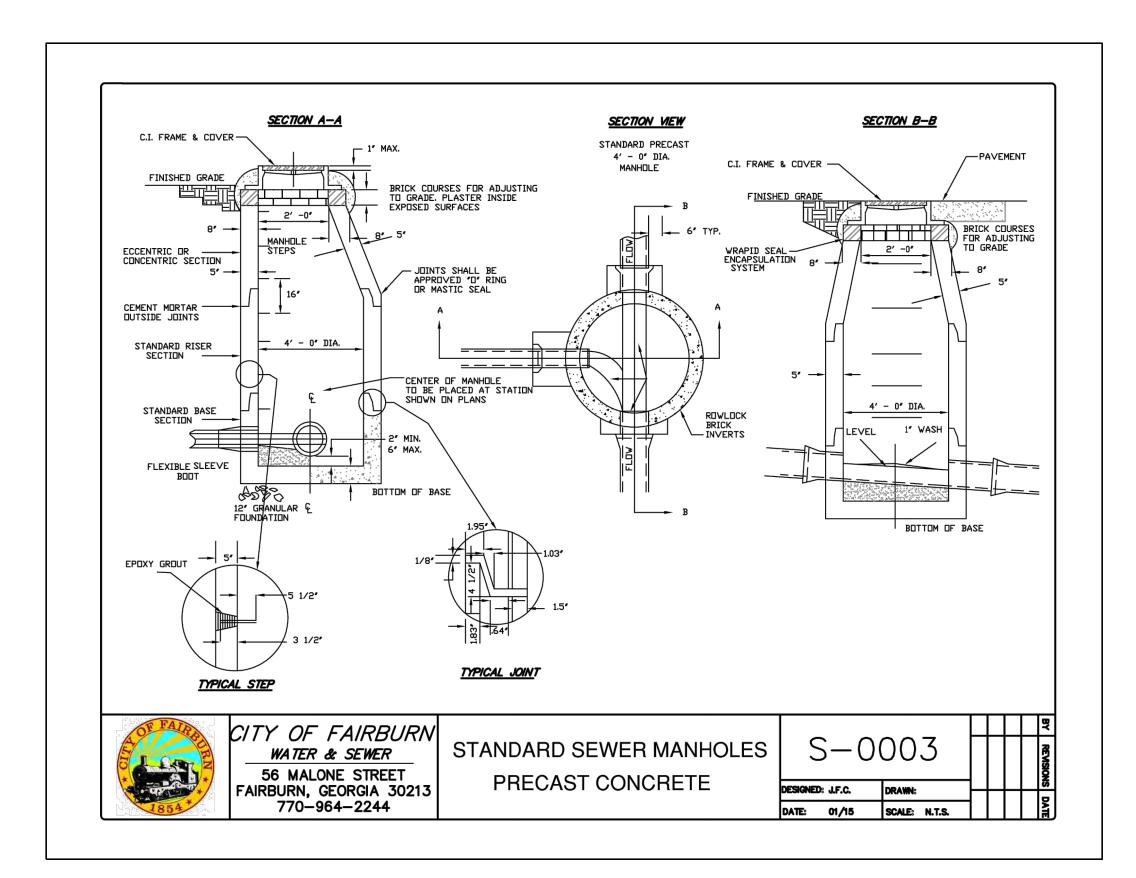












Landmark Christian School Renovations

Landmark Christian High School

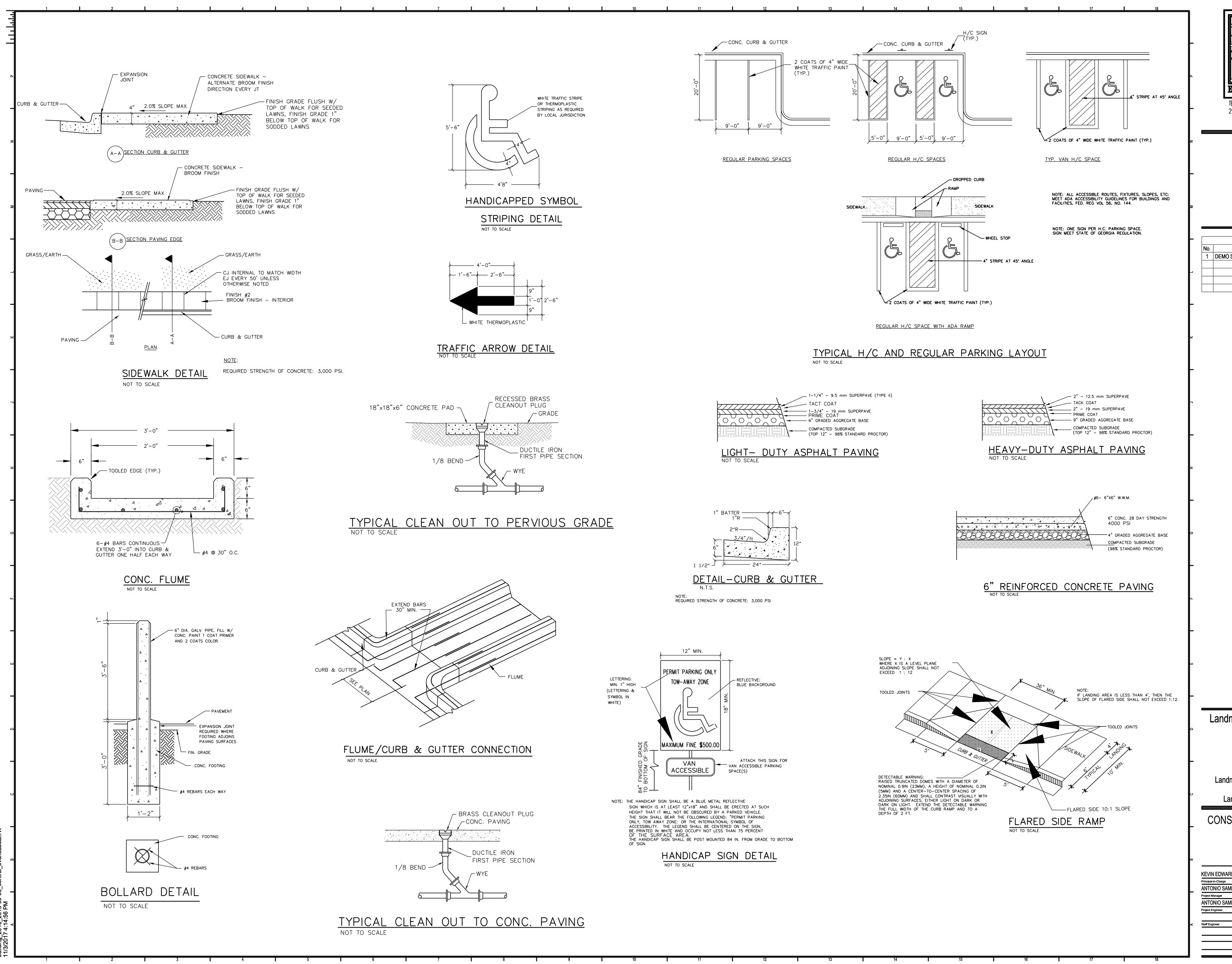
Landmark Christian School

CONSTRUCTION DETAILS

Principal-in-Charge
ANTONIO SAMPLE
Project Manager
ANTONIO SAMPLE
Project Engineer

C7.02

NOT ISSUED FOR CONSTRUCTION



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ISSUANCES

No. Drawing Issue Date

1 DEMO SUBMITTAL 04/26/19

Landmark Christian School Renovations

Landmark Christian High School

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Landmark Christian School

CONSTRUCTION DETAILS

REVIN EDWARDS
Principal-in-Charge
ANTONIO SAMPLE
Project Manager
ANTONIO SAMPLE
Project Engineer

C7.03

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EROSION CONTROL MEASURES SHALL BE AS A MINIMUM IN CONFORMANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" BY THE GA. SOIL & WATER CONSERVATION ANY AND ALL SILT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE THE SITE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL

(Ds1). ON SLOPES THAT ARE 4:1 OR STEEPER. MULCH SHALL BE ANCHORED

MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS DURING ALL PHASES OF CONSTRUCTION ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY. NO ACTIVITIES SHALL BE CONDUCTED WITHIN THE STATE AND LOCAL JURISDICTION'S STREAM BUFFER. PROVIDE EACH SECONDARY PERMITTEE A COPY OF THE EROSION CONTROL PLANS. EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL

OF THE FOLLOWING METHODS: A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL. B ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS

MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE

D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES. LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. MAINTAIN ALL EROSION CONTROL MEASURES THROUGH EVERY PHASE OF CONSTRUCTION.

INITIAL SOIL EROSION & SEDMENTATION CONTROL NOTES EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE SITE INSPECTOR PRIOR TO LAND DISTURBING CONSTRUCTION. PROVIDE AND MAINTAIN OFF-STREET PARKING ON-SITE.

STAGING AREAS, MATERIAL STORAGE, CONCRETE WASHOUT AREAS, OR DEBRIS BURN AND

BURIAL HOLES SHALL NOT BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS INO BURN AND BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED AND MAINTAINED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. LAND DISTURBANCE SHALL NOT BE ALLOWED OUTSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC

RIGHT-OF-WAY THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY DURING ALL PHASES OF CONSTRUCTION THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

IMMEDIATELY AFTER THE PLACEMENT OF THE CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED AS NECESSARY SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TOF OF ALL CUT AND FILL SLOPES TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. INSPECT AND REPAIR FENCE DAILY. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN

ON THE PLAN. CLEARED TREES MAYBE LITH IZED AS BARRIER BRUSH SEDIMENT CONTROL ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON PLANS AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED. INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH

DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON

HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL FROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL DISTURBED AREAS LEFT IDLE FOR 14 DAYS. AND NOT TO FINAL GRADE. WILL BE STABILIZED WITH MULCH OR TEMPORARY VEGETATION (Ds1). DISTURBED AREAS LEFT MULCHED FOR 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION (Ds2). ALL AREAS BROUGHT TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION

WITHIN 14 DAYS (Ds3) WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH SHALL BE ANCHORED.

INTERMEDIATE SOIL EROSION & SEDMENTATION CONTROL NOTES MAINTAIN INITIAL EROSION CONTROL MEASURES THROUGHOUT INTERMEDIATE PHASE. CONTROL EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS TO AVOID DUMPING OR SLOUGHING INTO BUFFER AREAS.

DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT FRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN. INSTALL EROSION CONTROL DEVICES IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE OWNER OR DESIGN PROFESSIONAL. MAINTAIN AND FURNISH ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT THE BARRIER. INSTALL BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. REPLACE ANY DEFECTIVE MATERIALS IN THE BARRIER AND REMOVE DEBRIS AND SILT AT THE

PLACE TYPE "C" SILT FENCE AT THE TOE OF ALL DIRT STOCKPILE AREAS AND SEED WITH TEMPORARY GRASSING INSTALL INLET SEDIMENT PROTECTION MEASURES ON ALL STORM STRUCTURES AS THEY ARE INSTALL STONE CHECK DAMS IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. APPLY VEGETATIVE COVER ON ALL DRAINAGE SWALES AS SOON AS FINAL GRADE IS ACHIEVED. APPLY VEGETATIVE COVER ON ALL GRADED AREAS AS SOON AS FINAL GRADE IS ACHIEVED.

DISTURBANCE STABILIZE ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS WITH TEMPORARY GRASSING. CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN AFTER PRELIMINARY GRADING ACTIVITIES. MAINTAIN THE SEDIMENT POND UNTIL GRADING OPERATIONS ARE COMPLETE AND THE SITE IS PERMANENTLY STABILIZED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN. INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY.

APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND

FINAL SOIL EROSION & SEDMENTATION CONTROL NOTES

MAINTAIN INITIAL AND INTERMEDIATE EROSION CONTROL MEASURES THROLIGHOLIT FINAL PHASE DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN. REPLACE & REMOVE INLET SEDIMENT TRAPS WITH CURB FILTER INLET PROTECTION AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED. MAINTAIN TEMPORARY SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN. APPLY VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS OF ALL ROADWAY AND PARKING SHOULDERS INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH

DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON

HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY

REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM OFF-SITE UPON FINAL STABILIZATION OF THE PROJECT AND CERTIFICATE OF OCCUPANCY. "FINAL TABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS OCATED 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 EQUIVALENT PERMANENT STABILIZATION MEASURES SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES: A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.

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 OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE 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 NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT. WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACTICES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COMP IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS. THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE

SPCC PLAN.

REGARDING SPILL CONTROL TECHNIQUES.

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING

TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED. SLICH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET EC3.0 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY SYSTEM AT THE COMPLETION OF THIS PROJECT. THE ES&PC PLAN MUST BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, 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/SALVENTS - 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

ITEM # CONCRETE OF 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 IF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

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

SPILL CONTROL PRACTICES-PRACTICES USED

. DISCHARGE OF NEW OR USED OIL, FUEL, LUBRICANTS, ETC. IS PROHIBITED. UTILIZE CONTAINMENT SYSTEMS. RECYCLED USED OILS, CONTAMINATED FUELS AND LUBRICANTS, ILLEGAL DISCHARGES ARE SUBJECT TO FINES AND PENALTIES. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT SHALL BE CLEARLY LABELED AND STORED IN A CLEARLY IDENTIFIED AREA. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. B. FERTILIZERS USED SHALL BE APPLIED IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. ANY FERTILIZERS THAT ARE TO BE STORED ON-SITE, SHALL BE STORED IN A PROTECTED SECURABLE ENCLOSURE. THE CONTENTS OF ANY PARTIALLY USED BAGS AT FERTILIZERS SHALL BE TRANSFERRED TO A CLEARLY TO A CLEARLY LABELED, SEAL ABLE PLASTIC CONTAINER TO AVOID SPILLS 4. CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT, DISCHARGE AND DRUM WASH ONLY AT THE IDENTIFIED EQUIPMENT MAINTENANCE AREAS. MAINTENANCE AREAS SHALL BE EQUIPPED WITH A DISCHARGE CONTAINMENT AREA (I.E. EARTH BERMS SURROUNDING AREA). THE CONTAINMENT AREA SHALL BE CLEANED UP AND REMOVED FROM THE SITE UPON COMPLETION OF CONCRETE INSTALLATION WORK. 5. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. 3. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, RESPIRATORS, CAT LITER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE 7. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.

APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE 9. THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES SHALL ALSO BE INCLUDED. ALL FUEL STORAGE SHALL BE PROVIDED OFFSITE. ALL FUELING AND EQUIPMENT STORAGE SHALL BE PERFORMED AT THE DESIGNATED LOCATION SHOWN ON THE PLANS. A COVERED 55 GALLON DRUM AND A SHOVEL SHALL BE PLACED AT THIS LOCATION. ALL SPILLS DURING FROM THE EQUIPMENT SHALL BE REMOVED TO FULL DEPTH OF SOIL CONTAMINATION AND THE SOIL SHALL BE PLACED IN THE DRUM. WHEN THE DRUM IS FULL, DISPOSE OF DRUM PROPERLY IN AN APPROVED ENVIRONMENTAL PROTECTION AGENCY (EPA) HAZARDOUS LAND FILL. FOR SPILLS 25 GALLONS AND GREATER MUST BE REPORTED T O THE EPA AT 1-800-241-4113 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802. THESE PLANS DO NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS MATERIALS OR OILS

8. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR THE

BUILDING MATERIAL STORAGE

RESULTING FROM AN ONSITE SPILL.

PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE. COVER WILL BE UTILIZED TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO NEGATE STORMWATER DISCHARGE OF POLLUTANTS FROM THESE AREAS.

GRADING RECORD

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL

TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES

NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN

14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE

A GRADING RECORD MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF CONSTRUCTION. GRADING REFERENCED IN GAR 100001 PART IV.D.3.a.(1).(a) AND (b).

GRADING ACTIVITIES				STABILIZATION A	ACTIVITIES		
	DESCRIPTION OF ACTIVITY	START	STOP		DESCRIPTION OF ACTIVITY	START	STOP
				1			
GRADING				STABILIZATION			
ONADII				MEASURES			
				-			
				-			

N.P.D.E.S. PERMIT REQUIREMENTS FOR PART IV SECTION D

NARRATIVE ITEM #

THE PROPOSED PROJECT IS LOCATED IN DISTRICT 6, LANDLOT 52, PARCEL 09F100900520100 AND 09F100900520118 OF FULTON COUNTY, GEORGIA. THE SITE IS MORE PARTICULARLY LOCATED ON MILO FISHER STREET AND CLAYTON STREET INTERSECTION. THE PROPOSED CONSTRUCTION CONSISTS OF A NEW 4317.07 S.F. BUILDING. THE PROPOSED CONSTRUCTION WILL ALSO INCLUDE PARKING LOTS. LANDSCAPING, AND UTILITIES TO SERVE THE BUILDING AS WELL AS A STORM A CONVEYANCE SYSTEM.

THIS PROJECT WILL UNDERGO CLEARING AND GRUBBING OPERATIONS WITH THE INITIAL BMP'S IN PLACE. THESE INITIAL BMP'S WILL INCLUDE THE INSTALLATION OF THE SILT FENCE. THE CONSTRUCTION ENTRANCES AND STONE CHECKDAMS. MASS GRADING OPERATIONS WILL BEGIN, ONCE THE THE CLEARING AND GRUBBING IS COMPLETE. THE BMP'S FOR THIS PHASE WILL INCLUDE THE INSTALLATION OF, TEMPORARY SEDIMENT BASINS, TEMPORARY DOWNDRAINS, DIVERSION DITCHES, INLET SEDIMENT TRAPS FROSION CONTROL MATTING GRASSING AND MAINTAINING THE INITIAL BMP'S PERMANENT STABILIZATION WILL INCLUDE IMPERVIOUS AREAS SUCH AS THE BUILDING AND ASPHALT PAVED ACCESS ROADS, AND ASPHALT PAVED PARKING LOTS. PERVIOUS AREAS WILL BE SEEDED WITH PERMANENT GRASSING. STORM DRAINAGE SYSTEMS WILL BE INSTALLED TO CONTROL STORMWATER RUN-OFF AFTER CONSTRUCTION IS COMPLETE. THESE SYSTEMS WILL INCLUDE STORMWATER INLETS, STORM PIPE AND RIP-RAP FOR OUTLET PROTECTION.

THE SITE IS CURRENTLY DEVELOPED AND HAS STRUCTURES ON THE PROPERTY. THE SITE ALSO HAS SLOPES RANGING FROM 5% TO 40% AND DRAINS INTO CITY LAKE. THE ADJACENT AREAS INCLUDE RESIDENTIAL HOUSING TO THE NORTH SOUTH AND WEST

POSSIBLE AFFECTS OF THIS PROJECT WILL BE A DISRUPTION IN TRAFFIC FLOW ON MILO FISHER STREET WHICH SERVES THE SITE TO THE EAST. CLAYTON STREET AND CHESTNUT STREET ALSO SERVES TO THE SOUTH. THE CITY LAKE MAY ALSO BE AFFECTED DUE TO THE PROPOSED CONSTRUCTION AS WELL.

RECEIVING WATERS:

UNNAMED TRIBUTARY OF THE RIVER. A PORTION OF THIS PROPERTY DOES/DOES NOT LIE WITHIN THE FLOOD HAZARD ZONE, AS PER THE FULTON COUNTY F.I.R.M. COMMUNITY PANEL NO.13121CO462F DATED: SEPTEMBER 18TH, 2013. THE STORM WATER DOES/DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR WITH IN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

SEDIMENTATION BASIN STATEMENT:

TWO SEDIMENTATION BASINS WILL BE USED ON THIS PROJECT TO MINIMIZE THE EROSION AND TO CONTROL SILT BASED ON THE SITE TOPOGRAPHY, SOILS AND NATURE OF CONSTRUCTION OF THIS PARTICULAR SITE. THESE SEDIMENT BASINS ARE REQUIRED ALONG WITH THE USE OF TYPE 'C' SILT FENCE AND OTHER MEASURES AS SHOWN ON THE PLAN. STILLING BASINS WILL BE PROVIDED AT ALL OTHER STORM OUTLETS TO PROVIDE A SIMILAR EFFECT AS A FULL SEDIMENT BASIN. THIS SITE WILL BE CONSTRUCTED IN TWO SEPARATE PHASES. THEREFORE ALLOWING SEEDING TO TAKE PLACE BEFORE THE SECOND PHASE IS UNDERWAY. UPON COMPLETION THE ENTIRE SITE WILL BE SEEDED PERMANENTLY AND LANDSCAPED TO STABILIZE THE SOIL.

STORM WATER MANAGEMENT STATEMENT: RAINFALL ACROSS IMPERVIOUS AREAS WILL PASS THROUGH SEDIMENTATION PONDS, TO BE TREATED BY FILTRATION AND DISCHARGED INTO A NEARBY STREAM. RIPRAP APRONS AT THE DISCHARGE SIDE OF OUTLET PIPE WILL REDUCE THE VELOCITY OF THE STORMWATER TO PREVENT SCOURING AND EROSION. LANDSCAPED AREAS, VEGETATED STRIPS AND ASSOCIATED BUFFER WILL FURTHER FILTER STORMWATER AND PROVIDE INFILTRATION AND TREATMENT

BUFFER ENCROACHMENT THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROPERTY.

GPS LOCATION OF CONSTRUCTION EXIT:

33.5608° N. 84.5785° W

N.P.D.E.S. NOTES FROM PERMIT NO. GAR 100001

HEMSELVES AND COMPLY WITH GENERAL PERMIT NO. GAR 100001. THE PLAN SHALL INCLUDE, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "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 AND O.C.G.A. 12-7-6, AS WELL

AS THE FOLLOWING:

WITH THE TERMS OF THIS PERMIT; AND

UNDERGONE FINAL STABILIZATION:

ALL PARTIES INVOLVED WITH THE COMPLETION OF THE PROPOSED PROJECT SHALL READ, FAMILIARIZE

PART I. COVERAGE UNDER THIS PERMIT C FLIGIBILITY . CONSTRUCTION ACTIVITIES. THIS PERMIT AUTHORIZES, SUBJECT TO THE CONDITIONS OF THIS A. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE FOUAL TO OR GREATER THAN ONE ACRE OCCURRING ON OR BEFORE, AND CONTINUING AFTER, THE EFFECTIVE DATE OF PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.; AND

DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS (1) ACRE OCCURRING THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES). COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH MINOR LAND DISTURBING INDIVIDUAL HOME LANDSCAPING REPAIRS ACTIVITIES (SUCH AS HOME GARDENS AND MAINTENANCE WORK, FENCES AND OTHER RELATED ACTIVITIES WHICH RESULT IN MINOR THE 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE SOIL EROSION) CONDUCTED OUTSIDE OF AND OUTSIDE OF THE 50 FOOT BUFFER ALONG THE BANKS OF ALL WATERS REQUIRING A BUFFER CLASSIFIED AS 'TROUT STREAMS' REQUIRING A BUFFER ON INDIVIDUAL STATE WATERS SOLD TO HOMEOWNERS WHERE ALL PLANNED CONSTRUCTION ACTIVITIES ON RESIDENTIAL LOTS HAVE BEEN COMPLETED AND HAVE UNDERGONE FINAL STABILIZATION.

2. MIXED STORM WATER DISCHARGES. THIS PERMIT MAY ONLY AUTHORIZE A STORM WATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES THAT IS MIXED STORM WATER DISCHARGE FROM AN INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE B. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS

C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF COVERED SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES 3. LIMITATIONS ON COVERAGE. THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT. A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE

OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE

B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT, SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE **EXISTING PERMIT DID** NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND D. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS

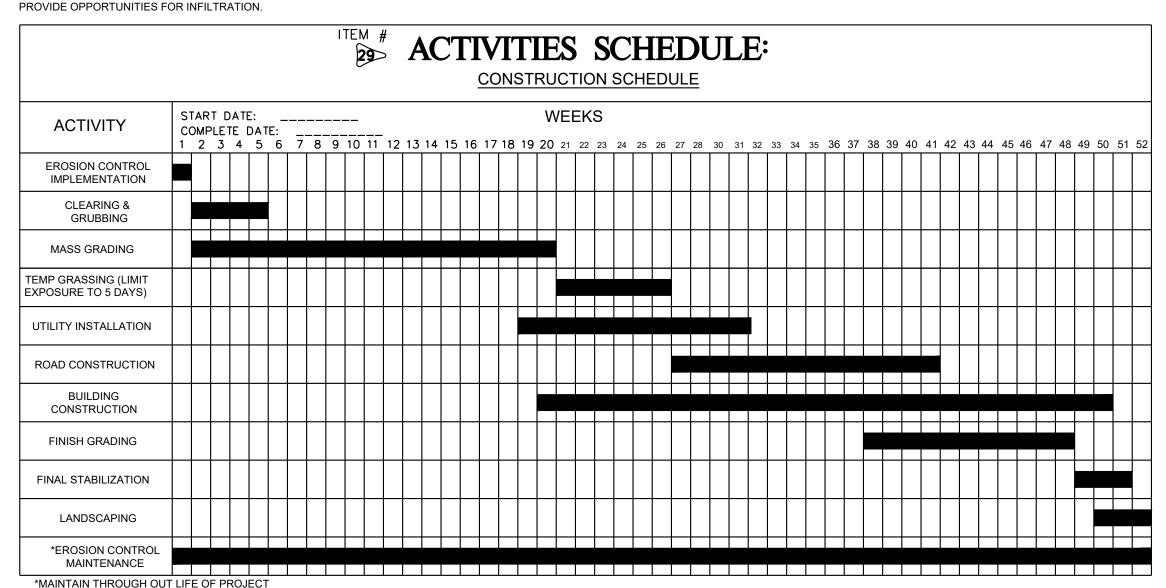
VIOLATION OF A WATER QUALITY STANDARD 4. COMPLIANCE WITH WATER QUALITY STANDARDS. NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL. CHAPTER

DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A

SOIL TYPES SYMBOL | SOIL NAME | DEPTH | ERODIBILITY | PERMEABILITY TEXTURE | SLOPE | STRUCTURE | HYDROLOGIC | EROSION FACTORS | (inches/hour) 0-7 0.57 - 1.98Well Drained 10-15% GRANULAR 0.15 Clay Loam Severe Urban-Land 0.57 - 1.982-10% GRANULAR Sandy Loam ____ ___ ___ ____ Moderate

SOILS INFORMATION WAS TAKEN FROM WEDSOIL SURVEY ON APRIL 12, 2019.

STAGING OF EARTHMOVING ACTIVITIES: THIS SCHEDULE IS REPRESENTATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOST APPROPRIATE TIME SCHEDULE FOR CONSTRUCTION ACTIVITIES AND TO MAKE CERTAIN THAT THE CONSTRUCTION ACTIVITIES EFFECTIVELY CONTROL EROSION AND SEDIMENT ON-SITE. STRIPS AND NATURAL DEPRESSIONS WILL FURTHER FILTER WATER AND



1. WEEK ONE TO WEEK TWO -UPON AWARD OF CONTRACT AND PRIOR TO GENERAL EARTHMOVING ACTIVITIES, THE CONTRACTOR SHALL INSTALL SILT FENCE, RETROFITTING FOR OUTLET CONTROL STRUCTURES, CONSTRUCTION ENTRANCE AND ANY OTHER PERIMETER CONTROLS NEEDED AS DETERMINED IN THE FIELD WEEK THREE - PERFORM CLEARING AND GRUBBING ACTIVITIES FOR TEMPORARY SEDIMENT BASINS

OR THE DETENTION BASINS. CONSTRUCT THE OUTFALL PIPE FOR THE DETENTION BASINS AND INSTALL THE RIP-RAP APRON. CONSTRUCT THE DETENTION BASINS AND INSTALL THE RETROFIT AS SHOWN ON THE 3. WEEK FOUR TO FIVE - PERFORM CLEARING AND GRUBBING ACTIVITIES FOR THE REMAINING AREAS OF CONSTRUCTION. SALVAGE ANY TIMBER POSSIBLE. MAKE CERTAIN THAT THE EROSION CONTROLS ARE IN PLACE AND FUNCTIONAL AND THEN STRIP TOPSOIL FROM CONSTRUCTION AREAS. STOCKPILE ON SITE AND SURROUND THE STOCKPILE WITH SILT FENCE AND ROCK FILTER OUTLETS. 4. WEEK FIVE TO WEEK TWENTY - PERFORM ROUGH GRADING OPERATIONS AND BEGIN STORM SEWER AND OTHER UNDERGROUND UTILITY CONSTRUCTION. INSTALL RIPRAP APRONS AT ALL PIPE OUTFALLS AND INSTALL TEMPORARY SEDIMENT TRAPS AT ALL CATCH BASINS AS SOON AS THEY ARE CONSTRUCTED. 5. WEEK TWENTY TO WEEK FIFTY TWO - INSTALL CURB AND GUTTER AND INSTALL ROAD AND PARKING SUBBASE AS SOON AS POSSIBLE. PERMANENTLY STABILIZE ANY AREAS THAT ARE AT FINAL GRADE AND PERFORM TEMPORARY STABILIZATION ON ANY AREAS THAT CANNOT BE INSTALL THE SECOND TIRE CLEANING FACILITY. 6. WEEK NINETEEN TO WEEK FIFTY TWO - BUILDING CONSTRUCTION.

7. WEEK FIFTY TO WEEK FIFTY TWO - PERFORM FINAL STABILIZATION ON ALL AREAS TO BECOME TURF WITH TOPSOIL SEED AND MULCH. INSTALL LANDSCAPING AS SHOWN ON THE PLAN 8. ALL WEEKS - AFTER EACH STORM EVENT, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED DURING THE CLEANING OPERATIONS SHALL BE INCORPORATED. INTO THE EARTHWORK AS FILL OR WASTED ON THE SITE AS DIRECTED BY THE CONTRACTING OFFICER REPRESENTATIVE 9. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, REMOVE ALL REMAINING TEMPORARY CONTROLS. ALL AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY CONTROLS MUST BE STABILIZED PRIOR TO PROJECT COMPLETION

ITEM #

GSWCC LEVEL II DESIGN PROFESSIONAL REE THROUGHOUT THREE WORKING DAYS BEFORE YOU DIG. Call before you d

DESIGN PROFESSIONAL'S CERTIFICATION

PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS

POTABLE WATER SOURCE

THE REPORTING

TO PREVENT OF

SUB-PARTS OR

CONSTITUTE A VIOLATIO

OF THE PERMITTEES

CORRECT THE BMP FAILURES

WATER

PARAGRAPH

PLANNED

WHEN

CONSTRUCTION

WATER

RULES

VIOLATIO

BFFN

CONSTRUCTIO

VALUE SHALL BE

CONSTRUCTION

WATER(S)

RESULTED IN SEDIMENT

ACCORDANCE WITH PART V.A.2. OF THIS

ACTIVITIES OCCUR THE DESIGN

INSTALLATION AND

RELEASES ACT (O.C.G.A.

CONDITIONING CONDENSATE:

OR FOOTING DRAINS WHERE FLOWS

EXCEPT AS PROVIDED IN PART I.C.2. AND III.A.2., ALL DISCHARGES COVERED BY THIS PERMIT

THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICL

. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A

HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISH

REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER

HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 AND 40 CF

§§12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS

(NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR

C. DISCHARGES INTO, OR WITHIN ONE MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY

MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY

ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3. AND

PRIOR TO CONDUCTING ANY OTHER CONSTRUCTION ACTIVITIES (E.G., CLEARING, GRUBBING AND

PROFESSIONAL WHO PREPARED THE PLAN MUST INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMEN

AND PERIMETER CONTROL BMPS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION

MAINTENANCE AS A RESULT OF THE PERMITTEE'S ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED.

2. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL

1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THIS PERMIT, ARE REQUIRED FOR ALL

OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED

2. EXCEPT AS REQUIRED TO INSTALL THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND

GRADING) WITHIN THE CONSTRUCTION SITE OR WHEN APPLICABLE. WITHIN PHASED

VIOLATION FOR THE PURPOSES OF THIS PARAGRAPH. IF DURING THE COURSE

TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10)

SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE

OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OF

PERIMETER CONTROL BMPS AS DESCRIBED IN PART IV D.3. THE INITIAL SEDIMENT STORAGE

REQUIREMENTS AND PERIMETER CONTROL BMPS MUST BE INSTALLED AND IMPLEMENTED

3 FAILURE TO PROPERLY DESIGN INSTALL OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL

4. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT

CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN

NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE

PRACTICES HAVE NOT BEEN PROPERLY DESIGNED. INSTALLED. AND MAINTAINED SHALL

TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM

COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED.

THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM

RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT

SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE

SURFACE WATER DRAINAGE AREA: 0-4.99 SQUARE MILES

NTU VALUE: 75

TYPE OF RECEIVING WATERS: WARM WATER

N.P.D.E.S. N.T.U. APPENDIX B VALUES

SIZE OF SITE: 1.0-10 ACRES

DESIGN PROFESSIONAL 7-DAY VISIT

THESE DEFICIENCIES MUST BE ADDRESSED WITHIN TWO (2) BUSINESS DAYS AS REQUIRED IN THE

CERTIFICATION #

THE INITIAL BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED.

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE

FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE EXCEEDING THE VALUE SELECTED FROM APPENDIX B APPLICABLE TO THE

SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU)

SITE, THE SURFACE WATER DRAINAGE AREA AND WHETHER THE RECEIVING

AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6 AT

SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE

Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

To use these tables, select the size (acres) of the construction site. Then, select the surface water drainage area (square

Example 1: For a site size of 12.5 acres and a cold water drainage area of 37.5 square miles, the NTU value to use in Part

miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

DATE OF INSPECTION ____

NPDES GENERAL PERMIT NO. GAR 100001

WWW.GAEPD.ORG.

1.00-10

ITEM #

Site Size

acres

FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.I. THIS

CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS.

CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN

SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION

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 À

4. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF WASTEWATER FROM WASHOUT AND

CLEANOUT OF STUCCO, PAINT, FORM REALEASE OILS, CURING COMPOUNDS AND OTHER

PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH

DISCHARGES FROM FIRE FIGHTING ACTIVITIES: FIRE HYDRANT FI USHING:

ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

SITE SHALL BE PREVENTED. THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF

REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR

INCLUDING WATER LINE FLUSHING: IRRIGATION DRAINAGE: AIR

SPRINGS; UNCONTAMINATED GROUND WATER; AND FOUNDATION

A. PROHIBITION ON NON-STORM WATER DISCHARGES.

B RELEASES IN EXCESS OF REPORTABLE QUANTITIES

302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.

SHALL BE COMPOSED ENTIRELY OF STORM WATER.

FOUIPMENT WASHING

CONSTRUCTION MATERIALS

UNDER EITHER GEORGIA'S OIL OR

RESULTING FROM AN ON-SITE SPILL

PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

D. MANAGEMENT PRACTICES AND PERMIT VIOLATIONS.

REDUCE THE POLLUTION OF WATERS OF GEORGIA PROPER DESIGN

SEGMENTS OF THE CONSTRUCTION SITE. FAILURE TO COMPLY SHALL

ROUTINE INSPECTION BMP FAILURES ARE OBSERVED WHICH HAVE

DEPOSITION INTO WATERS OF THE STATE THE PERMITTEE SHALL

AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN

OF THIS PERMIT FOR EACH DAY ON WHICH CONSTRUCTION

"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 OR THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED. TO MEET THE ITEM #

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.

> LEVEL II CERTIFIED DESIGN PROFESSIONAL Quel Prof CERTIFICATION NUMBER (ISSUED: 08 EXPIRES: 08

ISSUANCES DEMO SUBMITTAL 04/26/19

EROSION SEDIMENTATION & POLLUTION CONTROL NOTES

KEVIN EDWARDS incipal-in-Charge ANTONIO SAMPLE 03/25/2019 ANTONIO SAMPLE

EC1.01

NOT ISSUED FOR CONSTRUCTION

TOTAL SITE AREA = 28.89 ACRES DISTURBED AREA = 2.40 ACRES

THE U.S.A.

PART IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;

KEEP SHADE ON THE STREAM BED

OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER.

4. BUFFER CROSSING FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS

MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE

EXCEPT AS PROVIDED IN PART IV.(III). BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED

STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE

BUFFER,
AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE
BUFFER.

5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE
RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND
CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES
TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING
IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED),
AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED ANY BARE OR DISTURBED AREAS WITHIN THE
BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE
BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH

ii. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE

AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:

1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS.

2. STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER.

4. BUFFER CROSSING FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS

MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE

STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANYBARE OR DISTURBED AREAS WITHIN THE 5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING UNDERLYING VEGETATION IS MINIMIZED). IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO AND (D) NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION; AND iii. EXCEPT AS PROVIDED ABOVE. FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I). AND (II)., NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE $\,\,$ COVER MUST REMAIN TO PROTECT

THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL IDENTIFY ALL POTENTIAL SOURCES OF POLLUTION WHICH MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE. IN ADDITION, THE PLAN SHALL DESCRIBE AND THE APPLICABLE PERMITTEE SHALL ENSURE THE IMPLEMENTATION OF PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AT THE SITE AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. THE APPLICABLE PERMITTEE MUST IMPLEMENT AND MAINTAIN THE PROVISIONS OF THE PLAN REQUIRED UNDER THIS PART AS A

WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO

EXCEPT AS PROVIDED IN PART IV.A.2., A SINGLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN MUST BE PREPARED BY THE PRIMARY PERMITTEE FOR THE STAND ALONE CONSTRUCTION

A DEADLINES FOR PLAN PREPARATION AND COMPLIANCE 5. FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT. THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM

THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED. 6. FOR STORM- OR EMERGENCY-RELATED REPAIR WORK, THE PERMITTEE SHALL IMPLEMENT APPROPRIATE BMPS AND CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE)

SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM WILL NOT BE COMPLETED WITHIN SIXTY (60) DAYS OF COMMENCEMENT OF CONSTRUCTION ACTIVITY, A SUBMITTED TO EPD AND THE PERMITTEE SHALL COMPLY SINGLE COPY OF THE PLAN SHALL BE

WITH ALL REQUIREMENTS OF THIS PERMIT ON THE SIXTY-FIRST (61ST) DAY.

C. KEEPING PLANS CURRENT. THE PRIMARY PERMITTEE(S) SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT (I.E., THOSE BMPS WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

1 WASTE DISPOSAL LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS, WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS. THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. 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 INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR 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. 5. THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS CONCRETE MIXER CHUTES. HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. ADDITIONAL INFORMATION ABOUT BEST MANAGEMENT PRACTICES FOR CONCRETE WASHOUT IS AVAILABLE AT WWW.EPA.GOV/NPDES/PUBS/CONCRETEWASHOUT.PDF.

6. ALL PERMITTEES ARE REQUIRED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING

TRENCHES AND EXCAVATIONS. DISCHARGES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE

30 D.4. INSPECTION

PERMITTEE 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 AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND

NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. 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 OF THE REGION. 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

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 WATER(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.

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.

D.5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

D.6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL

NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY

HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE

(5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.
 A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

 A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE

ON THE USGS TOPOGRAPHIC MAP:

A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
 WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
 ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SURMITTAL

USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO

THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN

FOR SUBMITTAL.

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.

SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED OR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. 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 JTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMTITEE 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. 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

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:

O. 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,

DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE AFFROPRIATE,

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, STABILIZEDSHALL 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

SAMPLING FREQUENCY
 THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY—FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
 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.
 SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

 FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM

PARTS III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

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 EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR

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.

D.7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING 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.

ITEM #

E. 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 USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. 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 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 RE

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 PPD 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 BYRETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

F. RETENTION OF RECORDS.
F.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

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.
F.2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPOERTS, 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 BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED

F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN

THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN

EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY

PERMIT

FOR PERMIT TERMINATION;

NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY

(O.C.G.A. §§12-5-20. ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION:

PART V. STANDARD PERMIT CONDITIONS

NOTIFICATION TO THE PERMITTEE.

OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS 2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION, A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE 3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §\$12-5-20. ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES. TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE CONTROL ACT ALSO PROVIDE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR. B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND

LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE. CONSTRUCTION SITES THAT HAVE NOT OBTAINED COVERAGE UNDER THE PERMIT BY THE PERMIT EXPIRATION DATE CANNOT BECOME AUTHORIZED TO DISCHARGE UNDER THE CONTINUED PERMIT.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR; A STATE OR

LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT AN RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, INSPECTION REPORTS, SAMPLING REPORTS OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED AS FOLLOWS:

ALL NOTICES OF INTENT AND NOTICES OF TERMINATION SHALL BE SIGNED AS FOLLOWS:
 FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A
RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR
VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR ANY
OTHER PERSON WHO PERFORMS SIMILAR POLICY- OR DECISION MAKING FUNCTIONS FOR THE
CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING
FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH
GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT
DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND DIRECTING
OTHER COMPREHENSIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH
ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE
ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT
APPLICATION REQUIREMENTS; AND WHERE
AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED
OR DEL FGATED TO THE MANAGER. IN ACCORDANCE WITH CORPORATE PROCEDURES:

RESPECTIVELY; OR

c. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL; and

d. CHANGES TO AUTHORIZATION. IF AN AUTHORIZATION UNDER PART II.B. IS NO LONGER ACCURATE, A CHANGE OF INFORMATION NOI SATISFYING THE REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD TO BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON.

ALL INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE

SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A

b. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR,

a. THE AUTHORIZATION IS MADE IN WRITING BY A PERSON DESCRIBED ABOVE AND SUBMITTED TO THE EPD;
b. THE AUTHORIZATION SPECIFIES EITHER AN INDIVIDUAL OR A POSITION HAVING RESPONSIBILITY FOR SPECIFIED OPERATION(S) OF THE REGULATED FACILITY OR ACTIVITY, SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION);

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT. NOR ANY EXCLUSIVE PRIVILEGES. NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS . SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT SHALL NOT BE AFFECTED THEREBY. K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT. NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES RULES REGULATIONS AND LAWS FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF

THIS PERMIT.

NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

PROPER OPERATION AND MAINTENANCE. THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF

SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA, EPD OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR, IN THE CASE OF A CONSTRUCTION SITE WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM, AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL OPERATOR OF THE SEPARATE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF

THIS PERMIT; AND

2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND

3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL FOULPMENT).

N. PERMIT ACTIONS. THIS PÉRMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

EBERLY & ASSOCIATES IS NOT RESPONSIBLE FOR N.P.D.E.S.
WATER QUALITY MONITORING, REPORTING OF MONITORING RESULTS
TO THE E.P.D., OR RETENTION OF MONITORING & INSPECTION
RECORDS. RETAIN THE SERVICES OF QUALIFIED N.P.D.E.S. WATER
QUALITY MONITORING PERSONNEL.

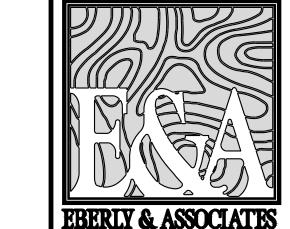


GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM	J	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.
Ch	CHANNEL STABLIZATION		IMPROVING, CONSTRUCTING, OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.
Co	CONSTRUCTION EXIT		A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION	0°000	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.
Dc	STREAM DIVERSION CHANNEL	Ос	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT STRUCTURE IS BEING CONSTRUCTED.
Di	DIVERSION		AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	(LABEL)	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. TEMPORARY AND INEXPENSIVE.
Dn2	PERMANANT DOWNDRAIN STRUCTURE	(LABEL)	A PAVED CHUTE, SECTIONED CONDUIT, PIPE, OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr	FILTER RING		A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ga	GABION	90000	ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.
Gr	GRADE STABILIZATION STRUCTURE	Gr	PERMANENT STRUCTURES INSTALLED TO PROTECT NATURAL OR ARTIFICIAL CHANNELS OR WATERWAYS WHERE OTHERWISE THE SLOPE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.
Lv	LEVEL SPREADER	—	A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATERS INTO LESS EROSIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM	m.	A PERMANANT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.
Re	RETAINING WALL	(LABEL)	A WALL INSTALLED TO STABILIZE CUT AND FILL SLOPES WHERE MAXIMUM PERMISSIBLE SLOPES ARE NOT OBTAINABLE. EACH SITUATION WILL REQUIRE SPECIAL DESIGN.
Rt	RETROFITTING	(LABEL)	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER	(INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, GRAVEL OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd2	SEDIMENT TRAP TEMPORARY	0	AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
Sd3	SEDIMENT BASIN TEMPORARY		A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT. THE BASIN IS USUALLY TEMPORARY BUT MAY BE DESIGNED AS A PERMANENT POND OR STORMWATER RETENTION DEVICE.
Sd4	TEMPORARY SEDIMENT TRAP		A SEDIMENT TRAP CREATED BY EXCAVATION OR A DAM ACROSS A DEPRESSION. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT. THE TRAP DOES NOT HAVE A PIPE OR A RISER.
Sk	FILTER SURFACE SKIMMER	— <u>—</u>	A BUOYANT DEVICE THAT RELEASES/ DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS OR BASINS AT A CONTROLLED RATE OF FLOW.
SpB	SEEP BERM		A LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUN-OFF TO ENHANCE DISSIPATION AND INFILTRATION OF RUN-OFF.
Sr	TEMPORARY STREAM CROSSING	(LABEL)	A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATERCOURSE FROM DRAINAGE BY CROSSING CONSTRUCTION EQUIPMENT.
St	STORMDRAIN INLET/OUTLET PROTECTION	(\$1)	A PAVED OR SHORT SECTION OR RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHING	HSuH	A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tc	TURBIDITY CURTAIN	0000	A FLOATING OR STAKED BARRIER INSTALLED WITHIN THE WATER.
Тр	TOPSOILING	Hoo	THE PRACTICE OF STRIPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED CONSTRUCTION ACTIVITIES.
Tr	TREE PROTECTION		USE OF TREE PROTECTION FENCING TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION.
Wt	VEGETATED WATERWAY/ STORMWATER CONVERYANCE CHANNEL		PAVED OR VEGETATIVE WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES, OR SIMILAR STRUCTURES.
	VEGET	ATIVE M	<u>IEASURES</u>
Bf	BUFFER ZONE	Bf	A STRIP OF UNDISTURBED, ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES AND COASTAL WATERS.
Cs	COASTAL DUNE STABLIZATION	Cs	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RENOURISHED.
Ds1	DISTURBED AREA STABLIZATION (MULCHING ONLY)	Ds1	APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.
Ds2	DISTURBED AREA STABLIZATION (TEMPORARY SEEDING)	Ds2	THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

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Cs	COASTAL DUNE STABLIZATION	Cs	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RENOURISHED.
Ds1	DISTURBED AREA STABLIZATION (MULCHING ONLY)	Ds1	APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.
Ds2	DISTURBED AREA STABLIZATION (TEMPORARY SEEDING)	Ds2	THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.
Ds3	DISTURBED AREA STABLIZATION (PERMANANT SEEDING)	Ds3	THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.
Ds4	DISTURBED AREA STABLIZATION (WITH SODDING)	Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.
FI-Co	FLOCCULANTS AND COAGULANTS	FI-Co	FORMULATED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS AND HYDROCARBONS (TSS) IN RUNOFF WATER FROM CONSTRUCTION SITES FOR WATER CLARRIFICATION
Sb	STREAMBANK STABILIZATION (PERMANENT VEG.)	Sb	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAM BANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAM BANK EROSION PROBLEMS.
Ss	SLOPE STABILIZATION	Ss	A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY IF PERMANENT VEGETATION ON STEEP SLOPES OR CHANNELS.
Tac	TACKIFIERS	Tac	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC

MATERIAL TO BIND TOGETHER.



TEL770.452.7849 FAX770.452.00 2951 FLOWERS RD S, SUITE 1 ATLANTA, GEORGIA 30341 WWW.EBERLY.NET

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Drawing Issu	e Date
DEMO SUBMITTAL	04/26/19
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andmark Christian School Renovations

Landmark Christian High School

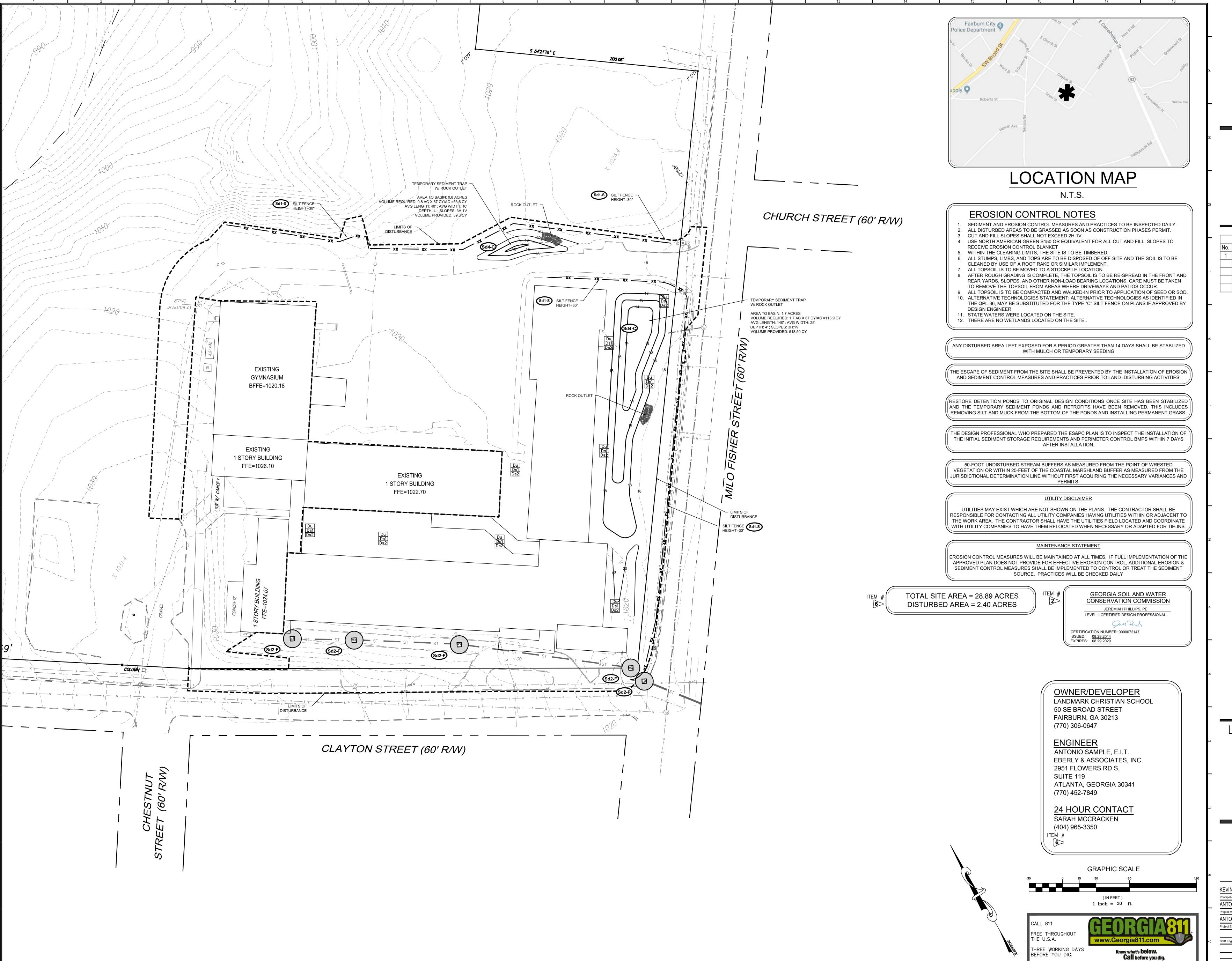
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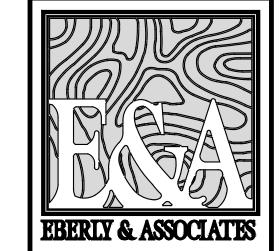
EROSION SEDIMENTATION & POLLUTION CONTROL

KEVIN EDWARDS	19-033
Principal-in-Charge	Project No.
ANTONIO SAMPLE	03/25/20
Project Manager	Date
ANTONIO SAMPLE	
Project Engineer	

EC1.02

Drawing No.





TEL770.452.7849 FAX770.452.008 2951 FLOWERS RD S, SUITE 11 ATLANTA, GEORGIA 30341 WWW.EBERLY.NET

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No. Drawing Issue Date

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Landmark Christian School Renovations

Landmark Christian High School

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Landmark Christian School

INTIAL ES & PC PLAN

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

Project Manager

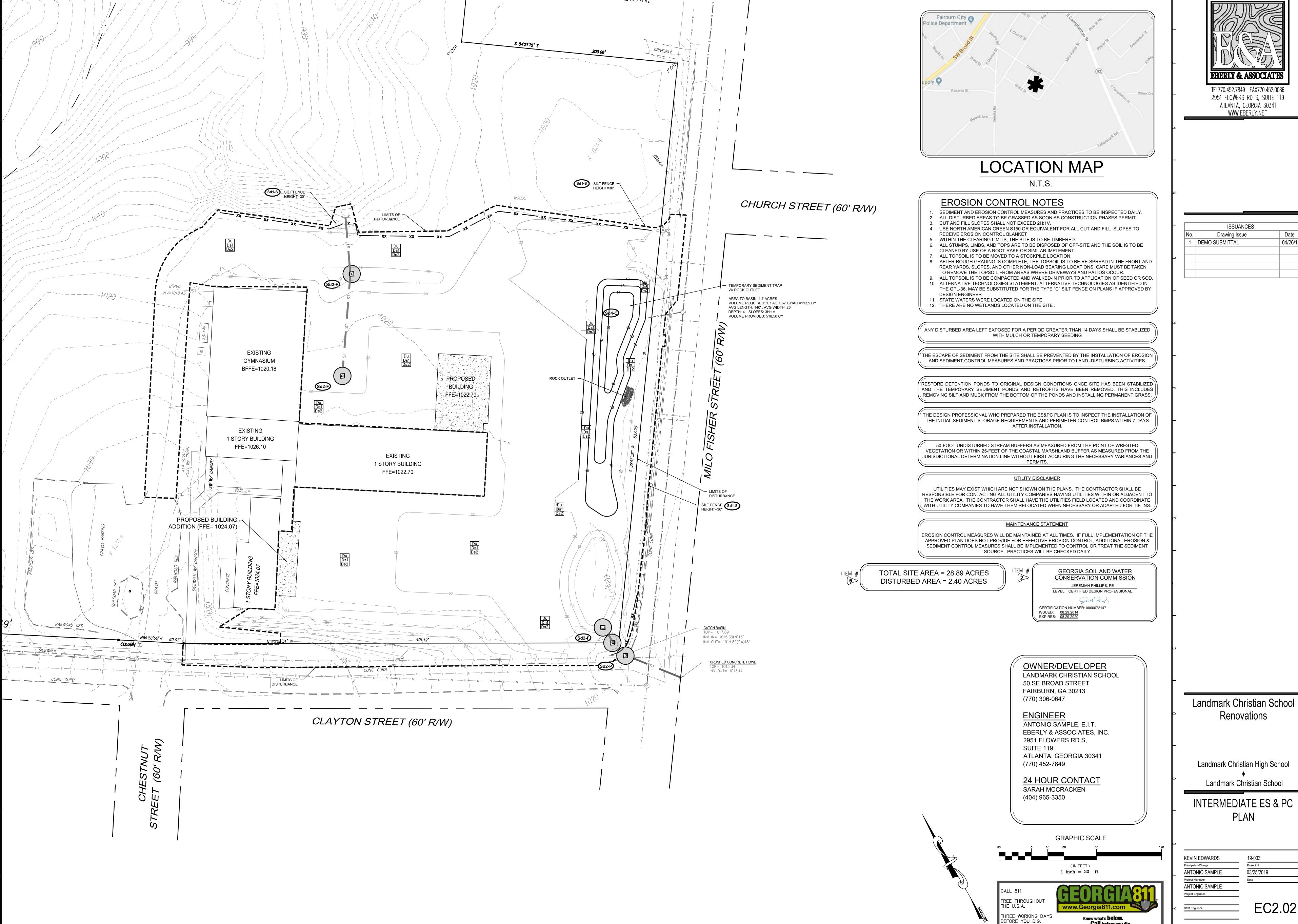
ANTONIO SAMPLE

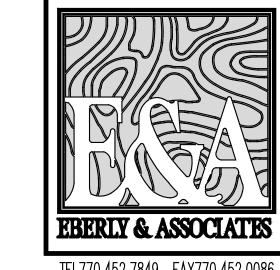
Project Engineer

Staff Engineer

EC2.01

ISSUED FOR CONSTRUC





ATLANTA, GEORGIA 30341 WWW.EBERLY.NET

ISSUANCES

04/26/19

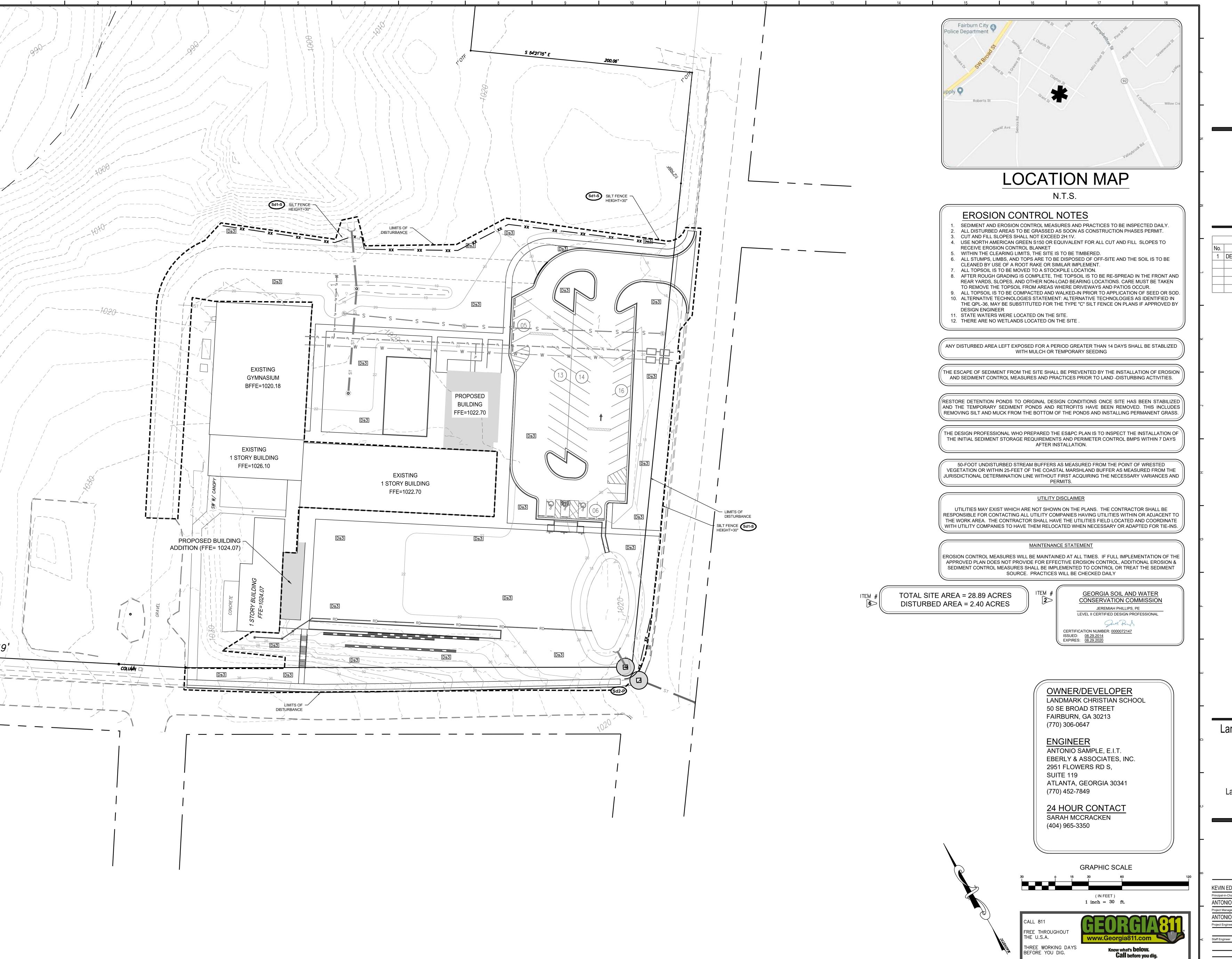
Drawing Issue

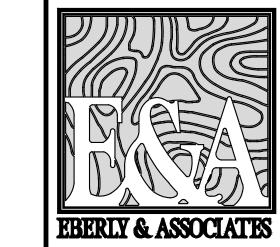


PLAN

Renovations

Principal-in-Charge
ANTONIO SAMPLE
Project Manager
ANTONIO SAMPLE
Project Engineer EC2.02





1EL/70.452.7849 FAX770.452.00 2951 FLOWERS RD S, SUITE 1 ATLANTA, GEORGIA 30341 WWW.EBERLY.NET

ISSUANCES

No. Drawing Issue Date

1 DEMO SUBMITTAL 04/26/19

Landmark Christian School Renovations

Landmark Christian High School

Landmark Christian School

FINAL ES & PC PLAN

KEVIN EDWARDS

Principal-in-Charge

ANTONIO SAMPLE

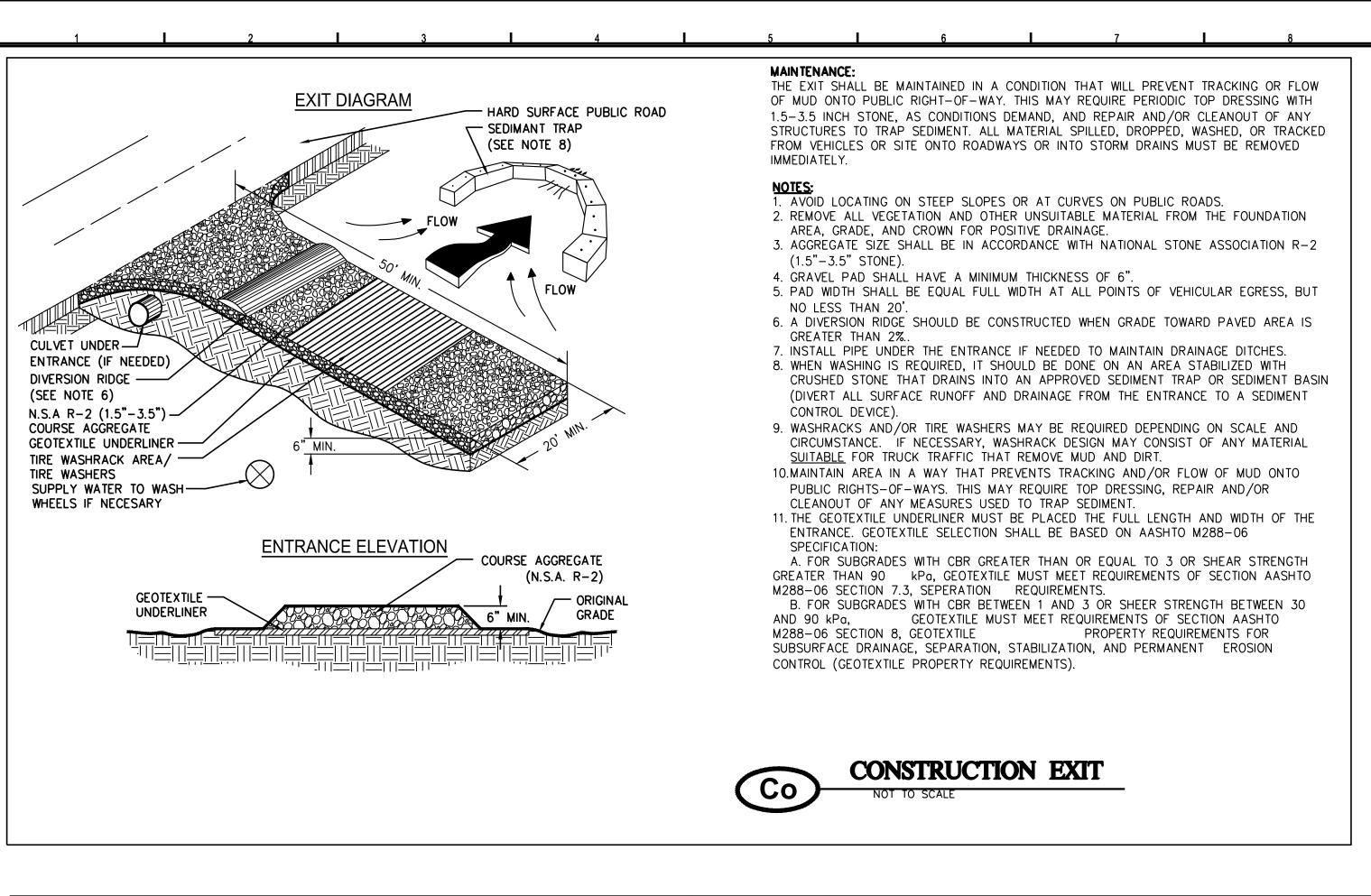
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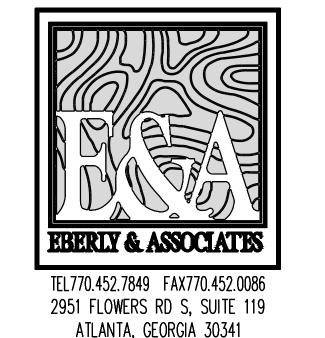
ANTONIO SAMPLE

Project Engineer

EC2.03

ISSUED FOR CONSTRUC

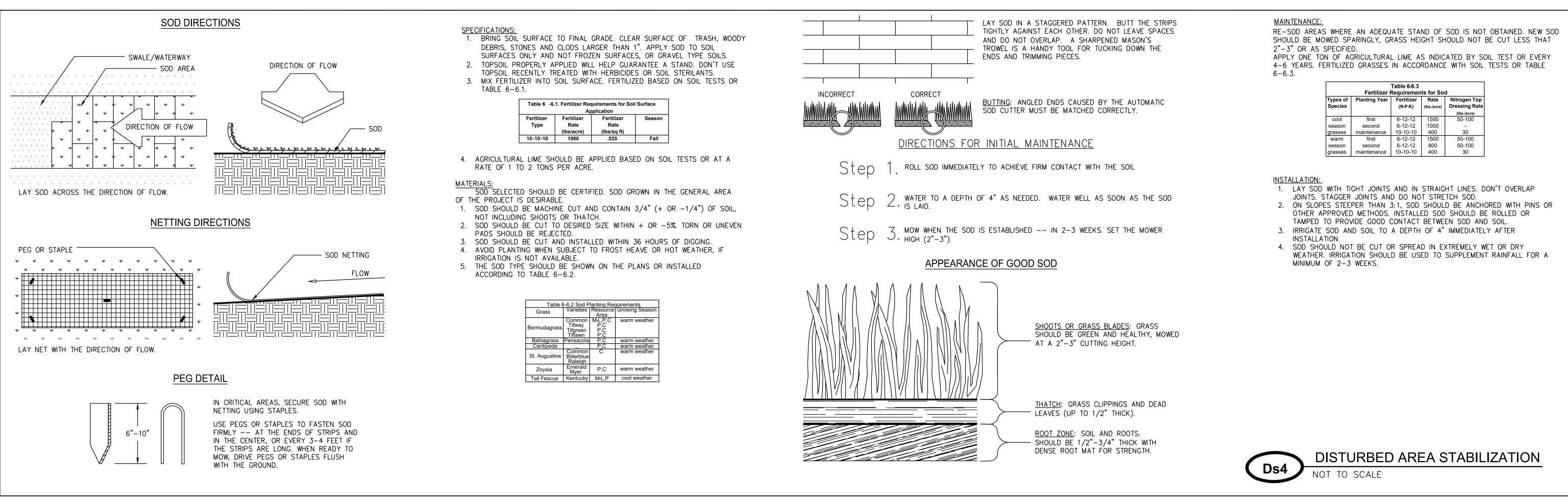




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ISSUANCES Drawing Issue





DESIGN CRITERIA:

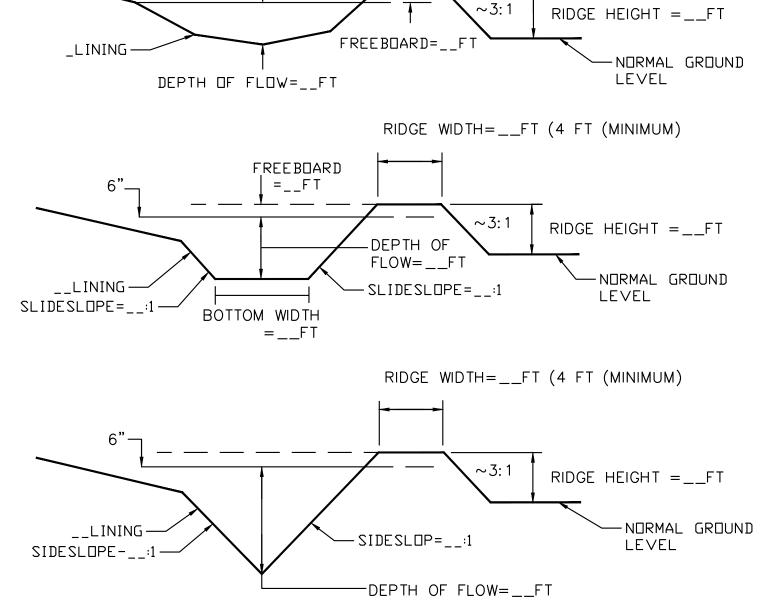
DIVERSION LOCATION SHALL BE DETERMINED BY CONSIDERING OUTLET CONDITIONS, TOPOGRAPHY, LAND USE, SOIL TYPE, LENGTH OF SLOPE, SEEP PLANES (WHEN SEEPAGE IS A PROBLEM). AND THE DEVELOPMENT LAYOUT. DIVERSIONS SHOULD BE TAILORED TO FIT THE CONDITIONS FOR A PARTICULAR FIELD AND LOCAL SOIL TYPE(S). A DIVERSION CONSISTS OF TWO COMPONENTS THAT MUST BE DESIGNED - THE RIDGE AND THE RIDGE SHALL BE COMPACTED AND DESIGNED TO HAVE STABLE SIDE SLOPES, WHICH SHALL NOT BE STEEPER THAN 2:1. THE RIDGE SHALL BE A MINIMUM WIDTH OF FOUR FEET AT THE DESIGN WATER ELEVATION AFTER SETTLEMENT. ITS DESIGN SHALL ALLOW TEN PERCENT FOR SETTLEMENT. LAND SLOPE MUST BE TAKEN INTO CONSIDERATION WHEN CHOOSING CHANNEL DIMENSIONS. ON THE STEEPER SLOPES, NARROW AND DEEP CHANNELS MAY BE REQUIRED. ON THE MORE GENTLE SLOPES, BROAD, SHALLOW CHANNELS USUALLY ARE APPLICABLE. THE WIDE, SHALLOW SECTION WILL BE EASIER TO MAINTAIN. SINCE SEDIMENT DEPOSITION IS OFTEN A PROBLEM IN DIVERSIONS, THE DESIGNED FLOW VELOCITY SHOULD BE KEPT AS HIGH AS THE CHANNEL LINING WILL PERMIT. TABLE 6-13.1 INDICATES THE STORM FREQUENCY REQUIRED FOR THE DESIGN OF THE

DIVERSION. THE REQUIRED STORM FREQUENCY IS BASED ON THE PURPOSE OF THE DIVERSION. THE STORM FREQUENCY IS USED TO DETERMINE THE REQUIRED CHANNEL CAPACITY, Q (PEAK RATE OF RUNOFF). THE CHANNEL PORTION OF THE DIVERSION MAY HAVE A PARABLIC OR TAPEZOIDAL CROSS—SECTION. DETAILED INFORMATION FOR THE DESIGN OF THESE CHANNELS IS PROVIDED IN THE SPECIFICATION WI - STORMWATER CONVEYANCE CHANNEL. OUTLE TS: EACH DIVERSION MUST HAVE AND ADEQUATE OUTLET. THE OUTLET MAY BE A CONSTRUCTED OR NATURAL WATERWAY, A STABILIZED VEGETATED AREA OR A STABILIZED OPEN CHANNEL. IN ALL CASES, THE OUTLET MUST DISCHARGE IN SUCH A MANNER AS TO NOT CAUSE AN EROSION PROBLEM. PROTECTED OUTLETS SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO CONSTRUCTION OF THE DIVERSION.

DIVERSION CHANNELS SHALL BE STABILIZED IN ACCORDANCE WITH ITEM 5 OF THE CONSTRUCTION SPECIFICATIONS. Ch-CHANNEL STABILIZATION

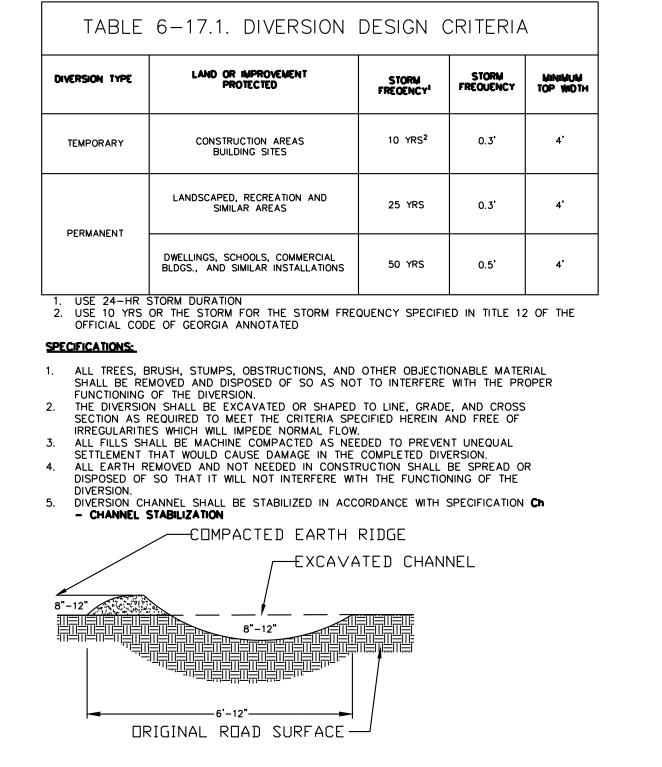
DIVERSIONS FOR ROADS AND UTILITY RIGHTS-OF-WAY: A DETAILED DESIGN IS NOT REQUIRED FOR THIS TYPE OF DIVERSION. DIVERSIONS INSTALLED TO DIVERT WATER OFF A ROAD OR RIGHT-OF-WAY SHALL CONSIST OF A SERIES OF COMPACTED RIDGES OF SOIL RUNNING DIAGONALLY ACROSS THE ROAD AT A 30' ANGLE. RIDGES ARE CONSTRUCTED BY EXCAVATING A CHANNEL UP-STREAM FOR THIS TYPE OF THE COMPACTED RIDGE HEIGHT SHALL BE 8-12" ABOVE THE ORIGINAL ROAD SURFACE; THE CHANNEL DEPTH SHALL BE 8-12" BELOW THE ORIGINAL ROAD SURFACE. CHANNEL

ROAD GRADE (PERCENT)	DISTANCE BETWEEN DIVERSIONS (FEET)
1	400
2	250
5	125
10	80
15	60
20	50



RIDGE WIDTH= $_$ FT (4 FT (MINIMUM)

TOP WIDTH=__FT



Landmark Christian School Renovations

Landmark Christian High School Landmark Christian School

ES & PC DETAILS

Project Engineer	
ANTONIO SAMPLE	
Project Manager	Date
ANTONIO SAMPLE	03/25/2019
Principal-in-Charge	Project No.
KEVIN EDWARDS	19-033

EC3.01

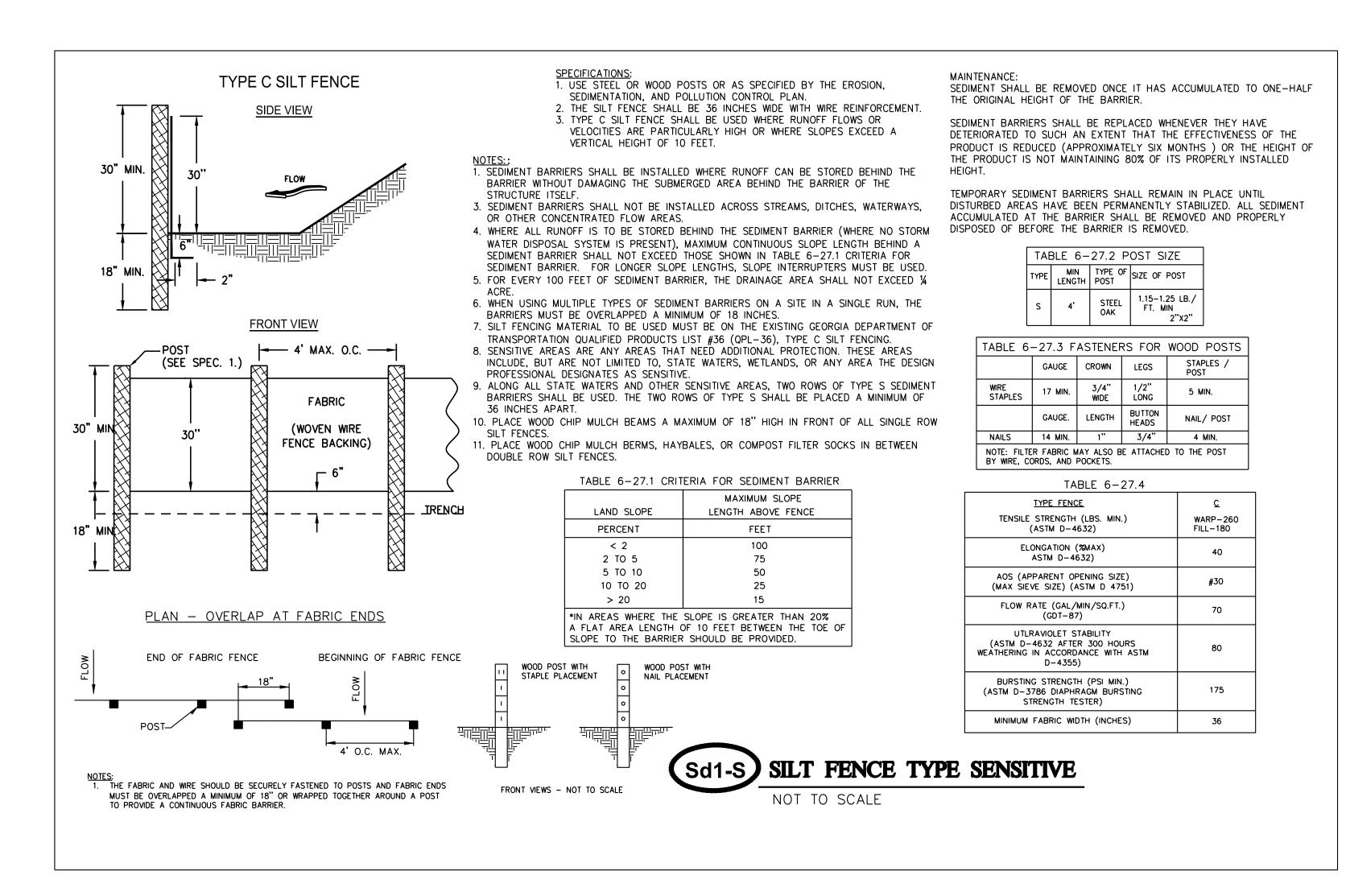
LEVEL II CERTIFIED DESIGN PROFESSIONAL

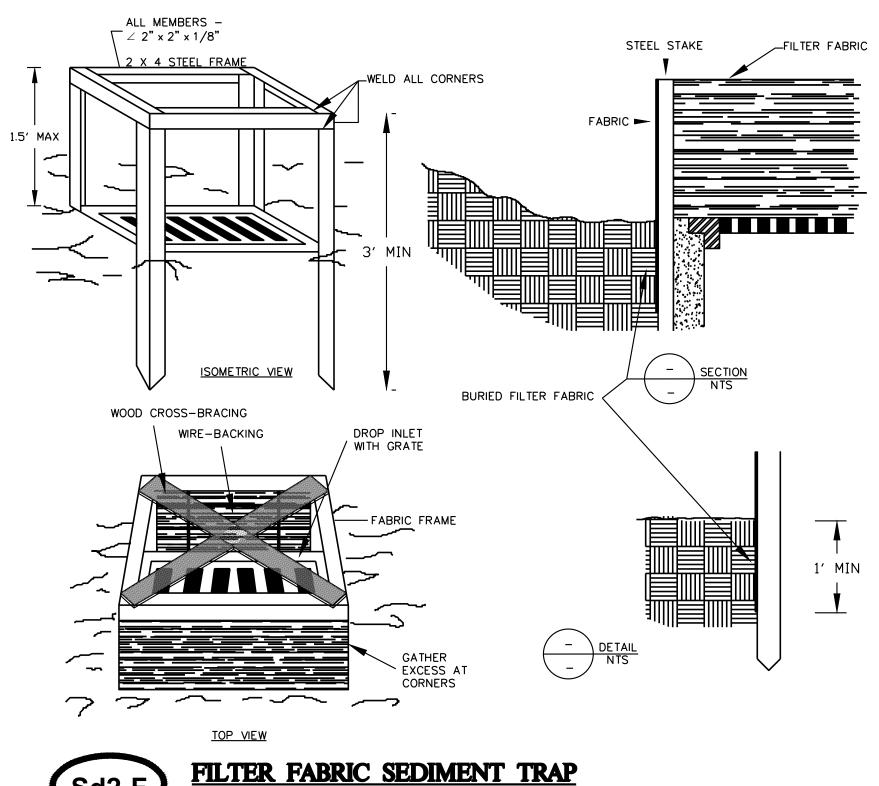
CERTIFICATION NUMBER

EXPIRES: 08/29/2020

ISSUED:

ITEM #





EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

STAND ALONE CONSTRUCTION PROJECTS

TO BE SHOWN ON ES&PC PLAN

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission

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

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

7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.

8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.

10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the perm

11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes,

4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)

(A copy of the written approval by EPD must be attached to the plan for the Plan to be reviewed.)

5 Provide the name, address, **email address**, and phone number of primary permittee.

EC1.01 Y 12 Design professional's certification statement and signature that the site was visited prior to development of the

| EC1.01 | Y | 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate

EC1.01 Y 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."

16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.

undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal

7 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on

approved Plan does not provide for effective erosion control, additional erosion and sediment control measures

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

Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific

26 Description of the measures that will be installed during the construction process to control pollutants in storm

marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary

SWCD:_____ GEORGIA DISTRICT 6

as of January 1 of the year in which the land-disturbing activity was permitted.

Name & email of person filling out checklist: ______ ANTONIO SAMPLE/ASAMPLE@EBERLY.NET

include at least 4 of the BMPs listed in Appendix 1 of this checklist.*

6 Note total and disturbed acreage of the project or phase under construction.

residential areas, wetlands, marshlands, etc. which may be affected.

EC1.01 | Y | 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot

BMPs with a hydraulic component must be certified by the design professional."*

EC1.01 | Y | 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as

EC1.01 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of

EC1.01 | Y | 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be

shall be implemented to control or treat the sediment source."

areas of the site which discharge to the Impaired Stream Segment.*

conditions or requirements included in the TMDL Implementation Plan.*

water that will occur after construction operations have been completed.*

erosion and sediment control measures and practices prior to land disturbing activities."

EC1.01 | Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the

EC1.01 Y 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile

N/A | N/A | 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in

EC1.01 | Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout

27 Description of practices to provide cover for building materials and building products on site.*

ES&PC Plan as stated on Part IV page 19 of the permit

in accordance with Part IV.A.5 page 25 of the permit.*

variances and permits."

authorized by a Section 404 permit."*

stabilized with mulch or temporary seeding."

of the drum at the construction site is prohibited.*

25 Provide BMPs for the remediation of all petroleum spills and leaks.

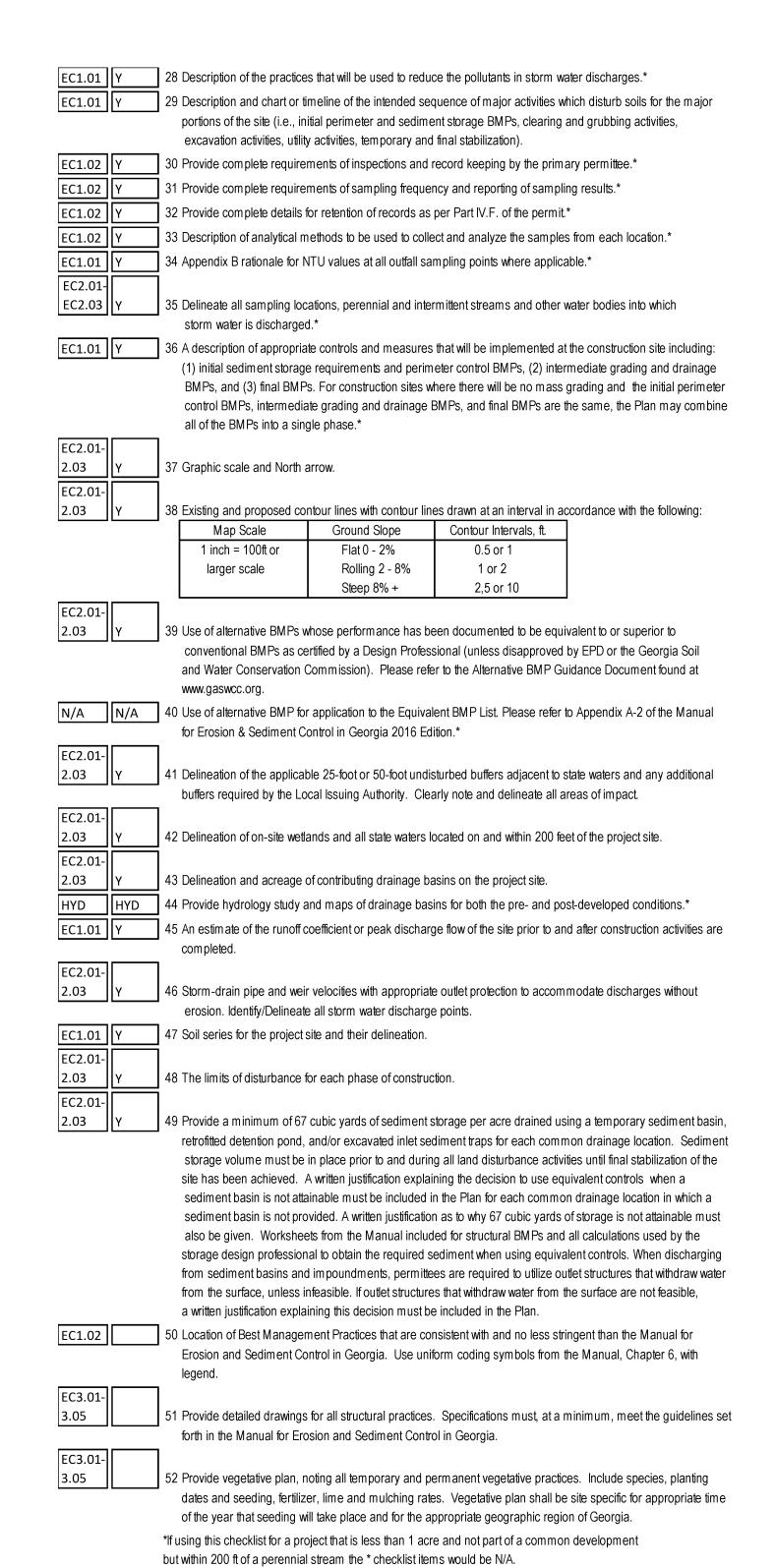
9 Description of the nature of construction activity.

EC1.01 | Y

Project Name: __ LANDMARK CHRISTAIN ACADEMY Address: _____

City/County:____ CITY OF FAIRBURN/ FULTON COUNTY Date on Plans:_____ 4/8/2019

SPECIFICATIONS: 1. SEDIMENT TRAPS MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL, PROVIDED THEY HAVE A NONERODIBLE OUTLET. USE TYPE "C" SILT FENCE SUPPORTED BY STEEL POSTS. SPACE STAKES EVENLY AROUND THE PERIMETER OF THI INLET A MAXIMUM 3 FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES TO PROVIDE NEEDED STABILITY TO THE INSTALLATION. FRAME WITH A 2X4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES OF COMPACTED SOIL. 6. FASTEN FABRIC AND WIRE SECURELY TO THE POSTS. FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET. 7. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW. MAINTENANCE REQUIREMENTS: THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET. THE MAXIMUM DRAINAGE AREA ALLOWED TO FLOW TO ANY ONE INLET SEDIMENT TRAP IS 1.0 ACRE.





TEL770.452.7849 FAX770.452.0086 2951 FLOWERS RD S, SUITE 119 ATLANTA, GEORGIA 30341 WWW.EBERLY.NET

	ISSUANCES	
).	Drawing Issue	Date
	DEMO SUBMITTAL	04/26/19

Landmark Christian High School Landmark Christian School

ES & PC DETAILS

ANTONIO SAMPLE ANTONIO SAMPLE

EC3.02

Effective January 1, 2019

TEMPORARY MULCHING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL

IN GEORGIA" FOR FURTHER DETAILS AND SPECIFICATIONS

<u>Dust Control On Disturbed Areas</u>

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

-To prevent surface and air movement of dust from exposed soil surfaces. -To reduce the presence of airborne substances which may be harmful or

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

injurious to human health, welfare, or safety, or to animals or plant life.

Method & Materials:

Binders.

A. Temporary Methods Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb - Tackifiers & Binders. Resins such as Curasol or Terratack

soils). Keep traffic off these areas. Refer to standard Tb - Tackifiers &

should be used according to manufacturer's recommendations. Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding). Spray-on Adhesives. These are used on mineral soils (not effective on muck

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment

which may produce the desired effect. Irtigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed. Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion. Calcium Chloride. Apply at rate that will keep surface moist. May need retreat-

B. Permanent Methods

Permanent Vegetation. See standard Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive material. See Tp. Stone. Cover surface with crushed stone or coarse gravel. See standard Cr -Construction Road Stabilization.

PLANTS, PLANTING RATES, AND PLANTING RATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

CDECIES	BROADCAST		RESOURCE			PLANTING DATES										REMARKS	
SPECIES	PER ACRE	S 2/ – PLS 3/ PER 1000 S.F.	AREA 4/	J	F	М	Α	м .	J .	J A	4 5	2 [] [1	D		
BARLEY (Hardeum vulgare) ALONE	144 LBS.	3.3 LBS.	M-L P								+			.	-		14,00 SEEDS PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS.
IN MIXTURES	24 LBS.	0.6 LBS.	С	J	F	М	Α	м .	J	J	Α :	2 1	, ,	V	D		
LESPEDEZA, ANNUAL			M-L														200,000 SEEDS PER POUND, MAY VOLUNTEER P SEVERAL YEARS. USE INOCULANT EL.
(Lespedeza striata) ALONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	P C	_	_	_				J		ای	<u>.</u> ,		n		SEVERAL TEARS. USE INOCULANT EL.
LOVEGRASS, WEEPING			M-L	J	Г	IVI		IMI .	-	J ,	,	3 1	<u>'</u>	1	<u> </u>		1,500,000 SEEDS PER POUND. MAY LAST FOR
(Erogrostis curvulo) ALONE IN MIXTURES	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	P C			_			-								SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA
IN MIXTURES		0.00 250.		J	F	М	A	М	J	J	A :	s I	<u>. </u>	<u> </u>	D		
MILLET, BROWNTOP (Panicum fasciculatum)			M-L	_			137,000 SEEDS PER POUND. QUICK DENSE COVE WILL PROVIDE TOO MUCH COMPETITION IN										
ÀLONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	P C		F	M	Δ	м	1	_ J 4	۱ .	ا ء	, ,	ļ	ח		MIXTURES IF SEEDED AT HIGH RATES.
MILLET, PEARL (Pennesetum glaucum) ALONE IN MIXTURES	50 LBS.		M-L			.,	-		_						_		88,000 SEEDS PER POUND. QUICK, DENSE COVE
		1.1 LBS.	P C			_	+		+								MAY REACH 5 FEET IN HEIGHT. NOT RECOMMEN IN MIXTURES
IN WINTONES				J	F	М	Α	М	J	J	A :	s I	יוב	<u> </u>	D		
OATS (Avena sativa) ALONE IN MIXTURES	128 LBS. 32 LBS.	0.0.100	M-L P								_			-			13,000 SEEDS PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLE
		2.9 LBS. 0.7 LBS.	C	J	F	М	A	м .	ار	ا با ر	A :	2 1		7	D		
RYE (Secole cereale) ALONE IN MIXTURES	168 LBS. 28 LBS.		M-L							+							18,000 SEEDS PER POUND. QUICK COVER.
		3.9 LBS. 0.6 LBS.	P C								+			+			DROUGHT TOLERANT AND WINTERHARDY.
				J	F	М	Α	М	J	J	A :	2 1	ין כ	<u>۷</u>	D		
RYEGRASS, ANNUAL (Lolling termulentum)	40 LBS.	0.9 LBS.	M-L P				_							1			227,000 SEEDS PER POUND. DENSE COVER. VER COMPETITIVE AND IS \underline{NOT} TO BE USED IN MIXTU
ALONE	40 LB3.	0.9 LB3.	Ċ	J	F	М	Α	м .	J	J	_ A :	2 1	 	1	D		
SUDANGRASS (Sorghum sudnaese) ALONE	60 LBS.		M-L			_			1								55,000 SEEDS PER POUND. GOOD ON DROUGHT
		1.4 LBS.	P C			-		+	+								SITES. <u>NOT</u> RECOMMENDED FOR MIXTURES.
				J	F	М	A	<u>м</u> .	J	J	A :	2 1	יוב	4	D		
TRITICALE (X-Triticasecale)	144 LBS.	3.3 LBS.															USE ON LOWER PART OF SOUTHERN COASTAL PAND IN ATLANTIC COASTAL FLATWOODS ONLY.
ALONE IN MIXTURES	24 LBS.	0.6 LBS.	С	J	F	М	A	м м	 ر	J	A :	ا 2	 	+	D		
WHEAT			M-L								F			+			15,000 SEED PER POUND. WINTERHARDY.
(Triticum aestivum) ALONE IN MIXTURES	180 LBS. 30 LBS.	4.1 LBS. 0.7 LBS.	P C									+	+	+			
				J	F	М	Α	М .	J	J	A :	s l	<u>ו</u> כ	٧L	D		

3/ PLS IS AND ABBREVIATION FOR PURE LIVE SEED. 4/ M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S

AREA 4/

 $\mathsf{M}\mathsf{-}\mathsf{L}$

P REPRESENTS THE SOUTHERN PIEDMONT MLRA C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRA'S.

PLANTING DATES

J | F | M | A | M | J | J | A | S | O | N | D |

TEMPORARY GRASSING DS2 REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GOERGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

350,000 SEEDS PER POUND, WIDELY ADAPTED, LOW

BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3

ROADBANKS. INOCULATE SEED W/ EL INOCULANT.

MIX WITH TALL FESCUE OR WINTER ANNUALS

MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON

YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON

SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
COOL SEASON FIRST GRASSES SECOND MAINTENANCE		6-12-12 6-12-12 10-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 1/2/ - 30
COOL SEASON GRASSES AND LEGUMES		6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 1/ - -
GROUND COVERS		10-10-10 10-10-10 10-10-10	1300 LBS./AC. 3/ 1300 LBS./AC. 3/ 1100 LBS./AC.	- - -
PINE SEEDLINGS FIRST		20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	-
SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700 LBS./AC. 700 LBS./AC. 4/	-
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS./AC.	30 LBS./AC. 5/
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 800 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 2/6/ 50-100 LBS./AC. 2/ 30LBS./AC.
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50 LBS./AC. 6/

1/ APPLY IN SPRING FOLLOWING SEEDING. 2/ APPLY IN SPLIT APPLICATIONS WITH HIGH RATES ARE USED. 4/ APPLY WHEN PLANTS ARE PRUNED 5/ APPLY TO GRASS SPECIES ONLY.

1. APPLY TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.

4. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE.

THE SEED TO LODGE AND GERMINATE.

COVER OF GRASS.

ABOVE STEPS.

MAINTENANCE REQUIREMENTS:

2. IF DISTURBED AREAS ARE TO BE LEFT UNDISTURBED FOR LESS THAN 6

MONTHS USE TEMPORARY GRASSING, OTHERWISE USE PERMANENT GRASSING.

3. SOIL TO RECEIVE GRASSING IS TO BE SCARIFIED TO PROVIDE A PLACE FOR

5. FOR LOW FERTILITY SOILS, APPLY 500-700 LBS. OF 10-10-10- FERTILIZER PER ACRE. APPLY BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK,

6. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL CULITPACER-SEEDER OR HYDRAULIC SEEDER. RAKE SOIL LIGHTLY TO COVER SEED WHEN APPLIED BY

7. PROVIDE WATER AS REQUIRED TO GERMINATE AND MAINTAIN A HEALTHY THICK

INSPECT ALL AREAS WHERE TEMPORARY GRASSING HAD BEEN APPLIED. WHERE

COVER IS SPARSE, SCARIFY THE AREA, TEST SOIL FERTILITY, APPLY FERTILIZER

AS NECESSARY AND RESEED WHERE EROSION HAS OCCURRED, REGRADE PRIOR TO

6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

I. PERMANANT GRASSING SHALL BE APPLIED TO GRADED AREAS THAT WILL BE UNDISTURBED FOR MORE THAN 6 MONTHS. 2. APPLY TO ALL AREAS IMMEDIATELY AFTER THEY HAVE REACHED FINAL GRADE. 3. APPLY AGRICULTURAL LIME AT A RATE OF 1-2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.

4. RYE GRASS SHALL NOT BE USED IN ANY SEEDING MIXTURE CONTAINING PERINNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANANT PERENNIAL COVER. 5. FOR HYDRAULIC SEEING, MIX SEED, FERTILIZER AND WOOD CELLULOSE OR WOOD PULP FIBER WITH WATER AND APPLY IN SLURRY UNIFORMLY OVER THE

TREATED AREA, APPLY WITHIN 1 HOUR OF MIXING, MULCH IS TO BE APPLIED AT

A RATE OF 500 LBS. PER ACRE. 5. FOR CONVENTIONAL SEEDING USE A CULTI-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER OR HAND SEED UNIFORMLY OVER THE SEED WITH 1/8" TO 1/2" OF SOIL. PROVIDE TEMPORARY MULCHING WITHIN 24 HOURS OF SPREADING SEED. MULCH SHALL COVER 75% OF THE SOIL SURFACE.

MAINTENANCE REQUIREMENTS: PROVIDE PERIODIC INSPECTIONS AND AFTER EACH RAINFALL EVENT AND REGRASS AREAS THAT ARE BARE OR HAVE ERODED. ESCLUDE TRAFFIC ON GRASSED AREAS UNTIL GRASS IS ESTABLISHED. MOW AS REQUIRED.

FERTILIZER AND MULCHING <u>REQUIREMENTS</u> REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR FURTHER DETAILS AND

SPECIFICATIONS

Renovations

TEL770.452.7849 FAX770.452.0086 2951 FLOWERS RD S, SUITE 119

ATLANTA, GEORGIA 30341

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ISSUANCES

04/26/19

Drawing Issue

1 DEMO SUBMITTAL

Landmark Christian High School Landmark Christian School

ES & PC DETAILS

/IN EDWARDS	19-033			
pal-in-Charge	Project No.			
TONIO SAMPLE	03/25/2019			
ct Manager	Date			

EC3.02

PLANTING DATES RESOURCE REMARKS SPECIES SPECIES AREA 4/ RATES 2/ - PLS 3 PER ACRE PER 1000 S J | F | M | A | M | J | J | A | S | O | N | D BAHIA, PENSACOLA 166,000 SEEDS PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH, PLANT WITH A LESPEDEZA, SERICEA (Paspaium notatum) 60 LBS. 1.4 LBS. COMPANION CROP. WILL SPREAD INTO BERMUDA (Lespedeza cuneata) SCARIFIED ALONE OR W/OTHER PASTURES AND LAWNS. MIX WITH SERICEA PESPEDEZA TEMPORARY COVER 30 LBS. 0.7 LBS. OR WEEPING LOVEGRASS. WITH OTHER PERENNIALS 166,000 SEEDS PER POUND. LOW GROWING. SOD BAHIA, WILMINGTON 60 LBS. 1.4 LBS. FORMING, SLOW TO ESTABLISH, PLANT WITH A (Paspalum notatum) UNSCARIFIED COMPANION CROP. WILL SPREAD INTO BERMUDA 30 LBS. 0.7 LBS. ALONE OR W/OTHER PASTURES AND LAWNS. MIX WITH SERICEA PESPEDEZA TEMPORARY COVER OR WEEPING LOVEGRASS. WITH OTHER PERENNIALS BERMUNDA, COMMON 1,787,000 SEEDS PER POUND. QUICK COVER. LOW 10 LBS. GROWING AND SOD FORMING. FULL SUN. GOOD FOR (Cynodon dactylon) 6 LBS. HULLED SEED WITH OTHER PERENNIALS F M A M J J A S O N D BERMUNDA, COMMON PLANT WITH WINTER ANNUALS. PLANT WITH TALL (Cynodon dactylon) 10 LBS. 6 LBS. 0.2 LBS. 0.1 LBS. UNHULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS J | F | M | A | M | J | J | A | S | O | N | D | BERMUDA SPRIGS A CUBIC FOOT CONTAINS APPROXIMATELY 650 (Cynodon dactylon) COASTAL, COMMON 40 C.F. 0.9 C.F. OR A BUSHEL CONTAINS 1.25 CUBIC FEET OR MOLAND, OR TIFT 44 APPROXIMATELY 800 SPRIGS. SOD PLUGS 3' x 3' COASTAL, COMMON OR SAME AS ABOVE. SOUTHERN COASTAL PLAIN ONLY. F M A M J J A S O N D DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. CENTIPEDE EFFECTIVE ADJACENT TO CONC. AND IN (Eremochioa aphiuroides) BLOCK SOD ONLY CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA. 100,000 SEEDS PER POUND. DENSE GROWTH, ROWNVETECH ATTRACTIVE ROSE, PINK AND WHITE BLOSSOMS SPRING (Coronilla varia) TO LATE FALL. MIX W/ 30 LBS. OF TALL FESCUE OR 15 LBS. OF RYE INOCULATE SEED WITH M INOCULANT. WITH WINTER 15 LBS. 0.3 LBS. ANNUALS OR COOL SEASON USE FROM NORTH ATLANTA AND NORTHWARD. F M A M J J A S O N D 227,000 SEEDS PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHT SOIL. MIX WITH FESCUE, TALL PERENNIAL LESPEDEZAS OR CROWNVETECH. APPLY 50 LBS. 1.1 LBS. (Festuca arundinacea) TOPDRESSING IN SPRING FOLLOWING FALL PLANTING. NOT 0.7 LBS. 30 LBS. FOR HEAVY USE AREAS OR ATHLETIC FIELDS. ALONE W/ OTHER PERENNIALS J F M A M J J A S O N D RAPID AND VIGORIOUS GROWTH. EXCELLENT IN GULLY 3" – 7" APART ALL (Pueraria thumbergiana) PLANTS OR CROWNS EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK J F M A M J J A S O N D 300,000 SEEDS PER POUND. HEIGHT OF GROWTH IS 18 Amora virgata TO 24 INCHES. ADVANTAGES IN URBAN AREAS. SPREADING-TYPE GROWTH. NEW GROWTH HAS BRONZE (Lespedeza virgata DC) COLORATION. MIX W/ WEEPING LOVEGRASS, COMMON OR Appolow (Lespedeza $\mathsf{M} \! - \! \mathsf{L}$ BERMUDA, BAHIA, TALL FESCUE, OR WINTER ANNUALS. cuneata [Dumont] G. Don. DO NOT MIX W/ SERICEA LESPEDEZA. SLOW TO SCARIFIED DEVELOP SOLID STANDS. INOCULATE SEED W/ EL 60 LBS. 1.4 LBS. UNSCARIFIED 70 LBS. 1.7 LBS.

1.7 LBS. 75 LBS. $\mathsf{M}\mathsf{-}\mathsf{L}$ CUT WHEN SEED MIXTURE IS MATURE, BUT BEFORE, IT SCATTERS. ADD TALL FESCUE OR WINTER SEED-BEARING HAY 1338 LBS. 3 TONS ANNUALS. | A | S | O | N | D | PROVIDES WILDLIFE FOOD AND COVER. LESPEDEZA, SHRUB $\mathsf{M}\mathsf{-}\mathsf{L}$ (Lespedeza bicolor) (Lespedeza thumbergii) PLANTS 3' x 3' $\mathsf{M}\mathsf{-}\mathsf{L}$ LOVEGRASS, WEEPING 1,500,000 SEEDS PER POUND. QUICK COVER, DROUGHT TOLERANT. GROWS WELL WITH SERICEA (Erogrostis curvula) ALONE LESPEDEZA ON ROADBANKS 2 LBS. 0.05 LBS. W/ OTHER PERENNIALS J A S O N D FOR VERY WET SITES, MAY CLOG CHANNELS, DIG MAIDEN CARE SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER (Penicum hernitornon) ALL 2' x 3' SPACING BANKS AND SHORELINES J F M A M J J A S O N D GROWS WELL ON COASTAL SAND DUNES, BORROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER ATLANTIC COASTAL 0.5 LBS. 20 LBS. FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT (Panicum amorum ON SAND DUNES. vor. amorulum) | | | F | | M | A | M | J | J | A | S | O | N | D | RED CANARY GRASS GROWS SIMILAR TO TALL FESCUE. (Phalaris arundinanceo) 50 LBS. 30 LBS. 0.7 LBS. WITH OTHER PERENNIALS I F M A M J J A S O N D $\mathsf{M}\mathsf{-L}$ SUNFLOWER "AZTEC" 227,000 SEEDS PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR 10 LBS. 0.2 LBS. maximilloni) J | F | M | A | M | J | J | A | S | O | N | D |

THICK LINES INDICATE OPTIMUM DATES, THIN LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

PER ACRE

60 LBS.

PER 1000 S.

1/ REDUCE SEEDING RATES BY 50% WHEN DRILLED. 2/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED, REFER TO SECTION V.E. OF THESE PECIFICATIONS.

3/ M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S. P REPRESENTS THE SOUTHERN PIEDMONT MLRA. C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRA'S.

> DS3 PERMANENT GRASSING REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GOERGIA" FOR