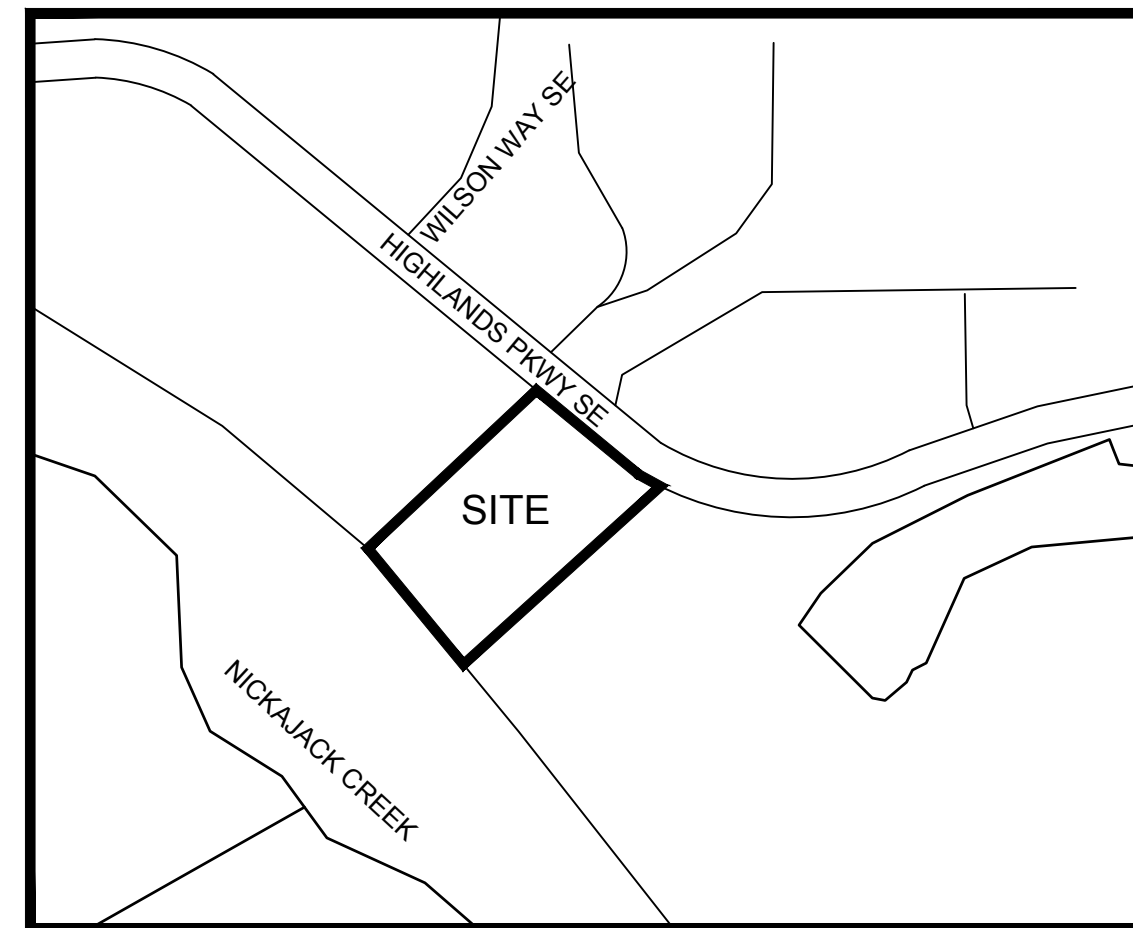


SITE NOTES:

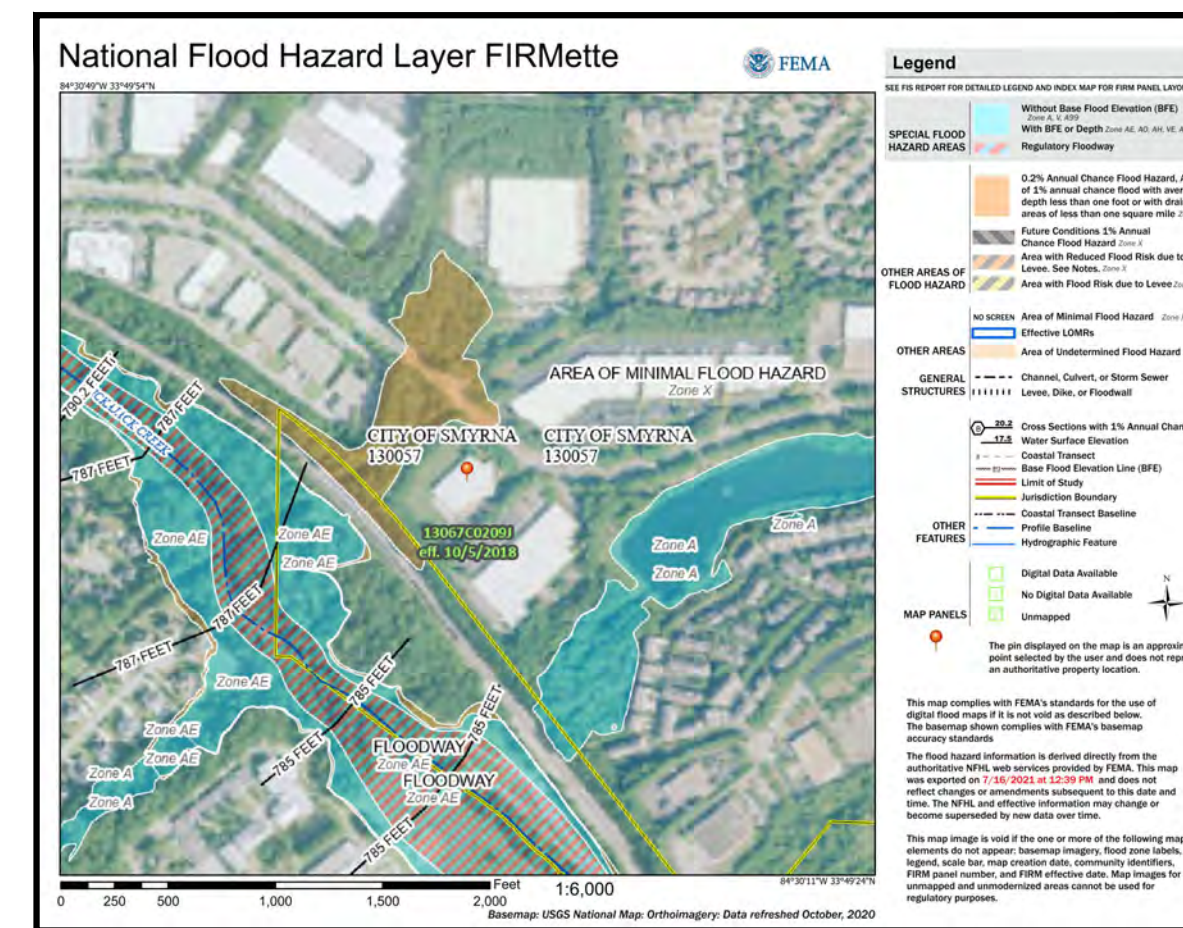
1. THE SITE CONTAINS: 5.16 ACRES.
2. SITE ADDRESS: 4500 HIGHLAND PARKWAY SE, SMYRNA, GA 30082
3. SURVEY INFORMATION AND BOUNDARY SURVEY IS TAKEN FROM SURVEYS PERFORMED BY GEORGIA LAND SURVEYING, CO. DATED JANUARY 21, 2021.
4. THERE ARE PORTION OF THIS PROPERTY IS INSIDE DESIGNATED F.I.A SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13067C0209J, DATED MARCH 4, 2013.
5. THERE ARE NO KNOWN WETLANDS ON THE PROJECT SITE.
6. THERE ARE KNOWN STREAMS – AN UNNAMED PERENNIAL STREAM, TRIBUTARY TO NICKAJACK CREEK, ALL ASSOCIATED STREAM BUFFERS AREAS ASSOCIATED WITH THE PROPERTY ARE SHOWN ONSITE.
7. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES, ARCHITECTURAL, OR ARCHEOLOGICAL LANDMARKS THAT EXIST ON SITE. IN THE EVENT THAT THESE LANDMARKS ARE DISCOVERED DURING CONSTRUCTION, THE ENGINEER MUST BE CONTACTED IMMEDIATELY FOR REVIEW AND AMENDING THE CONSTRUCTION PLANS.
8. THE EXISTING UTILITIES SHOWN ON THE PLANS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS, SIZES, MATERIALS, OR DEPTH FOR THE UTILITIES SHOWN OR THE UTILITIES WHICH MAY EXIST ON THE SITE BUT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD. THE CONTRACTOR SHALL ALSO HAVE THE RESPONSIBILITY BEFORE STARTING ANY WORK TO MAKE SUCH EXPLORATIONS AND PROBES NECESSARY TO ASCERTAIN ANY SEWER LINES, WATER SUPPLY LINES, GAS LINES, ELECTRICAL LINES, CABLE LINES, TELEPHONE LINES, OR OTHER UTILITY LINE.
9. CONTRACTOR SHALL CONTACT THE UTILITY LOCATOR AS REQUIRED BY GEORGIA LAW AND HAVE ALL UTILITIES MARKED PRIOR TO ANY CONSTRUCTION ACTIVITY. CONTRACTOR WILL HAVE PRIVATE UTILITY LOCATOR LOCATE ALL UTILITIES WITHIN THE CONSTRUCTION LIMITS NOT COVERED BY THE UTILITY PROTECTION CENTER.
10. SANITARY SEWER WILL BE PROVIDED TO THE NEW DEVELOPMENT THROUGH AN EXISTING CONNECTION ALONG HIGHLAND PARKWAY INTO THE CITY OF SMYRNA SEWER SYSTEM. NO ONSITE SEPTIC SYSTEM IS PROPOSED.
11. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR ERRORS THAT HE MAY DISCOVER IN THESE PLANS.
12. CONTRACTOR TO PROVIDE ALL NECESSARY BARRICADES, GUARDS, LIGHTS, AND OTHER INSTALLATIONS REQUIRED TO PROTECT PERSONS AND PROPERTY DURING THE ENTIRE CONSTRUCTION PROCESS.
13. ALL CONSTRUCTION MUST CONFORM TO THE APPROPRIATE CITY, COUNTY, AND STATE STANDARDS.
14. UNDERGROUND UTILITIES SERVING OR CROSSING THE PREMISES MAY EXIST THAT ARE NOT SHOWN. CRESCENT VIEW ENGINEERING IS UNABLE TO CERTIFY TO THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. ALL UNDERGROUND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITY BY THE UTILITY PROTECTION CENTER AT 1-800-282-7411 FOR RIGHT OF WAY AREA AND BY A PRIVATE UTILITY LOCATOR FOR UTILITIES NOT LOCATED WITHIN THE RIGHT OF WAY.
15. THE CONTRACTOR MUST OBTAIN ADDITIONAL "RIGHT OF WAY" PERMIT FOR ALL NECESSARY WORK DONE IN THE RIGHT OF WAY.
16. A PRE-CONSTRUCTION LANDSCAPE CONFERENCE IS REQUIRED FOR THIS PROJECT PRIOR TO ANY FINISH LANDSCAPING. CALL THE CITY OF SMYRNA ARBORIST AT 770-528-2124 OR LANDSCAPE ARCHITECT AT 770-528-2149. THERE ARE CRITICAL FACTORS ON THE LANDSCAPE PLAN THAT WILL AFFECT BOTH THE GENERAL CONTRACTOR AND THE LANDSCAPE CONTRACTOR. PLANTING AREA DIMENSIONS, PLANTING METHODS AS WELL AS PLANT MATERIALS MUST BE IN ACCORDANCE WITH THE APPROVED PLAN. OR THE LANDSCAPE INSPECTOR MAY DELAY THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.

24 HOUR EMERGENCY CONTACT: JAY EASTLAND 404-784-4689

**CONSTRUCTION DOCUMENTS FOR:
4500 HIGHLAND PARKWAY SE
LAND LOT 609, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082**



**LOCATION MAP
N.T.S.**



**FEMA MAP
N.T.S.**

THERE ARE PORTION OF THIS PROPERTY IS INSIDE DESIGNATED F.I.A SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13067C0209J, DATED MARCH 4, 2013.

ZONING NOTES:

1. CITY OF SMYRNA ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH SAID ACT.
2. ANY CONSTRUCTION TRAILERS TO BE PERMITTED THROUGH THE ZONING DIVISION.
3. ANY SIGNS TO BE PERMITTED THROUGH CITY OF SMYRNA CODE ENFORCEMENT DIVISION; I.E., SUBDIVISION ENTRANCE SIGNS, MONUMENTS, AND ALL COMMERCIAL SIGNS. THE LOCATION OF SUBDIVISION SIGNS MUST ALSO BE SHOWN ON THE PLANS.

ZONING REQUIREMENTS:

PROPOSED ZONING: LI
 MINIMUM LOT AREA (SQUARE FEET): 40,000
 MAXIMUM LOT COVERAGE BY BUILDINGS AND OTHER STRUCTURES INCLUDING PAVING (PERCENT): 90
 MINIMUM LOT WIDTH AT SETBACK LINE (FEET): 100
 MAJOR THOROUGHFARES: 75
 MINOR THOROUGHFARES: 50
 OTHER: 50
 MINIMUM 2 SIDE YARD (FEET): 20
 MINIMUM 3 REAR YARD (FEET): 30
 REAR SETBACK AGAINST RAILWAY (FEET): 0
 MAXIMUM HEIGHT OF STRUCTURES (FEET): ADDITIONAL HEIGHT MUST BE APPROVED BY THE MAYOR AND CITY COUNCIL

UTILITY LISTING:

GAS – ATLANTA GAS LIGHT COMPANY
 TELEPHONE – AT&T
 POWER – GA POWER
 WATER – COBB COUNTY
 SEWER – COBB COUNTY

CONSTRUCTION NARRATIVE:

THE PROPOSED PLANS CALL FOR THE CONSTRUCTION OF PARKING LOT AND UNDERGROUND UTILITIES. ALL PHASED EROSION CONTROL BMPs ARE TO REMAIN IN PLACE UNTIL THE SITE IS 100% STABILIZED.

Reviewed	Approved
<i>[Signature]</i> City Engineer	ER/FC/AW 8/31/22
<i>[Signature]</i> Comm. Dev. Dir.	RM 8/19/22
<i>[Signature]</i> Fire Marshal	TG 8/26/22
<i>[Signature]</i> Public Works Dir.	ER/PO 8/19/22
	Public Works Dir.

CITY of SMYRNA, GEORGIA



COMMUNITY DEVELOPMENT DEPARTMENT

Required Notes

Provide the following City of Smyrna notes (available in MS Word format upon request):

- All work shall comply with City of Smyrna design and construction standards.
- All curbed islands shall be filled to top of curb with topsoil and grassed or stabilized in accordance with the approved landscape plan.
- All open drainage swales must be grassed, and riprap must be placed as required to control erosion.
- No additional drainage areas shall be diverted onto City right-of-way.
- All corrugated metal storm drainpipe shall be fully bituminous-coated galvanized steel or aluminumized type II with re-rolled ends and bands.
- HDPE pipe shall be bedded in accordance with manufacturer recommendations.
- Applicant shall re-grass to Georgia DOT specifications all City right-of-way areas that are damaged or disturbed during work authorized herein.
- All handicap ramps shall be a minimum of 3.0' in width and at a maximum 12:1 slope.
- A five (5) foot wide sidewalk is required along all public streets, and in some cases 10' wide, with a 2-foot grass strip adjacent to the back of curb
- All road and storm structures shall conform to Georgia Department of Transportation or Cobb County Standard Specifications and details.
- Construction within 300' of residential occupancies will be allowed weekdays between the hours of 7:00 AM and 6:00 PM, and Saturday from 9:00 AM to 5:00 PM.
- Lane closures on arterials are permitted only between 9:00 AM and 4:00 PM.
- Parking for construction activities shall be provided on site, off of the right-of-way.
- Flaggers and traffic control will be provided at all times of lane closure on all roads, including the loading and unloading of equipment.
- Sanitary sewer and water lines must pass inspection before streets can be paved.
- Builder shall be responsible for installation of sidewalks and the C.O. will not be issued until sidewalk is inspected and accepted.
- All exterior lighting shall be placed so as not to directly illuminate adjacent property.
- The owner/developer is responsible to coordinate with the US Army Corps of Engineers concerning permits or requirements when wetlands are proposed to be disturbed on the property. Failure to request a determination of permit requirement before disturbing any wetlands could result in penalties being imposed by the Corps of Engineers.
- The owner/developer is responsible to coordinate with the Georgia DNR EPD concerning permits or requirements when buffers are proposed to be disturbed on the property. Failure to request a determination of permit requirement before disturbing any buffers could result in delay of project and penalties being imposed, and restoration of buffer being required.
- Burial of construction materials is not permitted within the City of Smyrna.
- Burning of debris or construction materials is not permitted within the City of Smyrna.
- As-built plans of all stormwater management facilities shall be provided to the City of Smyrna prior to the issuance of the Final Plat. As-built plans shall be certified by a professional engineer.
- All silt barriers and construction entrance pads must be placed prior to any clearing and/or grading. No grading shall be done until silt barrier installation is complete.
- A "seven-day" letter shall be prepared by the design engineer stating the site is in compliance with the approved E&S plan prior to proceeding with mass grading operations
- The construction pad shall be maintained in a condition that will prevent tracking or flow of mud onto public streets.
- Silt fences and barriers shall be cleaned or replaced and maintained in functional condition until permanent erosion control measures are established.

- All grassing shall be in accordance with the Manual for Erosion and Sediment Control in Georgia, latest edition.
- All other work shall be performed in accordance with the specifications of this same manual.
- Temporary vegetation and/or heavy mulch will be used to stabilize areas. In no case shall a site be left bare for more than seven (7) days.
- All disturbed areas will be permanently landscaped and grassed as soon as practicable.
- Additional measures may be required to control erosion as determined necessary by City inspectors.
- Erosion control blankets shall be used on all slopes exceeding 3:1 over 5 vertical feet in height
- All applications of hydrosseed will be followed by 1/4" to 1" mulch.
- No clearing beyond the limits of disturbance shown on the approved plans shall be allowed.
- No land disturbing activity within any tree save area shall be allowed.
- Notice is hereby given that all erosion and sediment devices and practices must be installed and maintained at all times. No further notice will be given. Any site upon which the Land Development Inspector finds any deficiency will be subject to an immediate enforcement action without warning.
- Erosion and sediment control devices must be maintained in a satisfactory condition 24 hours a day, 7 days a week.
- It is the responsibility of the contractor to obtain qualified professional advice when questions arise concerning design and effectiveness of erosion control devices.
- Erosion control devices that are installed as directed or allowed by city inspectors but not shown on the approved plan and which also subsequently fail, are the responsibility of the contractor. The City of Smyrna assumes no responsibility or liability for direction provided by City staff during inspections.
- All temporary and permanent seeding must be performed at the appropriate season. Additional plantings will be necessary if a sufficient stand of grass fails to grow.
- The city inspector will determine adequate cover of new plantings.
- Topsoil shall be stockpiled and used to dress final grades.
- No disturbance will be allowed within flood plains or wetlands without appropriate permits.
- Silt fences shall not be placed in stream buffer or flood plains.
- No Certificates of Occupancy will be issued until to HOA covenants are recorded
- No Certificates of Occupancy will be issued until to the Inspection and Maintenance agreement is recorded
- Tree protection fence shall be shown on the erosion control plan
- State and City undisturbed stream buffers shall be flagged/marked in the field

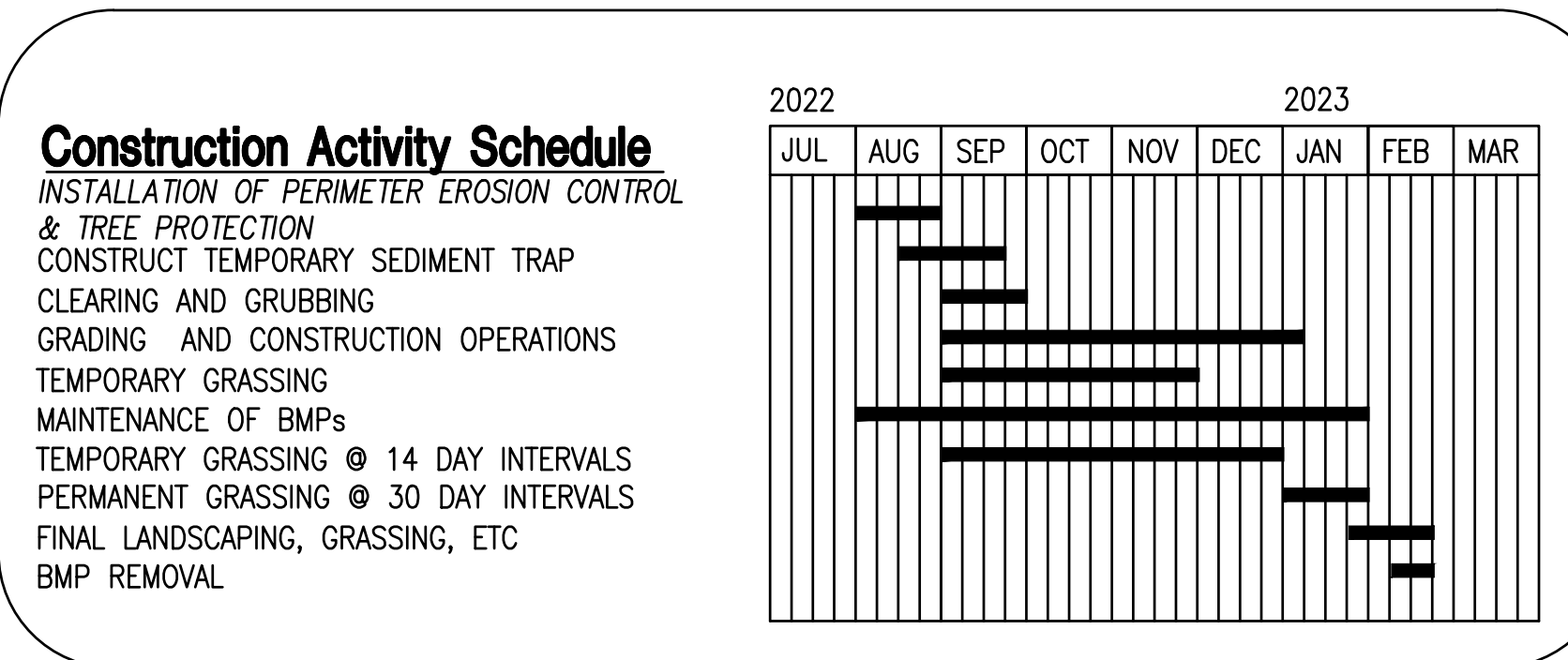
OWNER:

JAY EASTLAND
 JAY.EASTLAND@ESOGREPAIR.COM
 404-784-4689
 4500 HIGHLAND PARKWAY SE
 SMYRNA, GA 30082

ENGINEERS:

CRESCENT VIEW ENGINEERING, LLC
 211 FRASIER ST. S.E.
 MARIETTA, GEORGIA 30060
 678-324-8410

CITY OF SMYRNA DOES NOT CERTIFY THE ACCURACY OF THESE DRAWINGS. IN APPROVING THESE DRAWINGS AND SPECIFICATIONS THE CITY OF SMYRNA HAS RELIED UPON THE ACCURACY OF THE INFORMATION AND REPRESENTATIONS FURNISHED HEREIN BY THE NAMED ENGINEER AND OR ARCHITECT; AND THE CITY OF SMYRNA ASSUMES NO LIABILITY OR RESPONSIBILITY FOR THE ACCURACY OF THE REPRESENTATIONS.



ANTICIPATED START DATE: 07-15-22 ANTICIPATED COMPLETION DATE: 03-30-23

"I CERTIFY UNDER THE 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 DIRECT SUPERVISION"

[Signature]
 CERTIFIED BY DATE: 2-21-22

NFPA 101 L.S.C., 2018 Ed.
 IFC 2018 Ed.
 OCGA Title 25 & 30

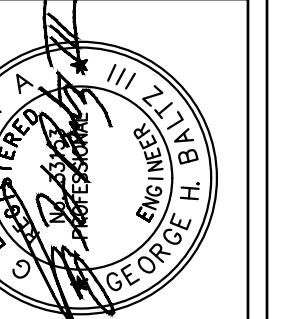
Legend	Sheet #
COVER SHEET	CV
SURVEY	S
SITE PLAN	C-1
SIGHT DISTANCE PLAN	C-11
GRADING PLAN	C-2
STORMWATER MANAGEMENT PLAN	C-3
STORMWATER PROFILE	C-3.1
STORMWATER PROFILE	C-3.2
ES&PC - INITIAL	C-4
ES&PC - INTERMEDIATE	C-4.1
ES&PC - FINAL	C-4.2
ES&PC - NOTES	C-4.3
ES&PC - NOTES	C-4.4
ES&PC - DETAILS	C-4.5
ES&PC - CHECKLIST	C-4.6
CONSTRUCTION DETAILS	C-5
CONSTRUCTION DETAILS	C-5.1
CONSTRUCTION DETAILS	C-5.2
TREE PLAN	T-1
TREE PLAN	T-2

Prepared By:
**CRESCENT VIEW
 ENGINEERING, LLC:**
 211 Frasier Street
 Marietta, GA 30060
 678-324-8410
 www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
 SMYRNA, GA 30082

Cover Sheet

DATE	SCALE	DRAWN	CHECKED	REVISIONS	COUNTY COMMENTS
2-21-22	AS SHOWN	PG	GHB	03/23/2022	04/13/2022
				07/18/2022	



CONSTRUCTION PLANS FOR:
**4500 HIGHLAND
 PARKWAY SE**
 LAND LOT 609, DISTRICT 17, SMYRNA
 COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.

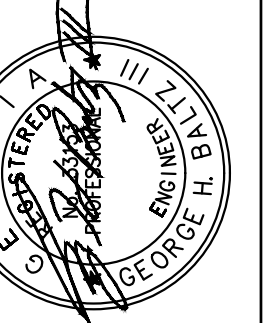
CV

Prepared By:
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ENGINEERING, LLC:
211 Frazier Street
Marietta, GA 30060
678-324-8410
www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082

SIGHT DISTANCE PLAN

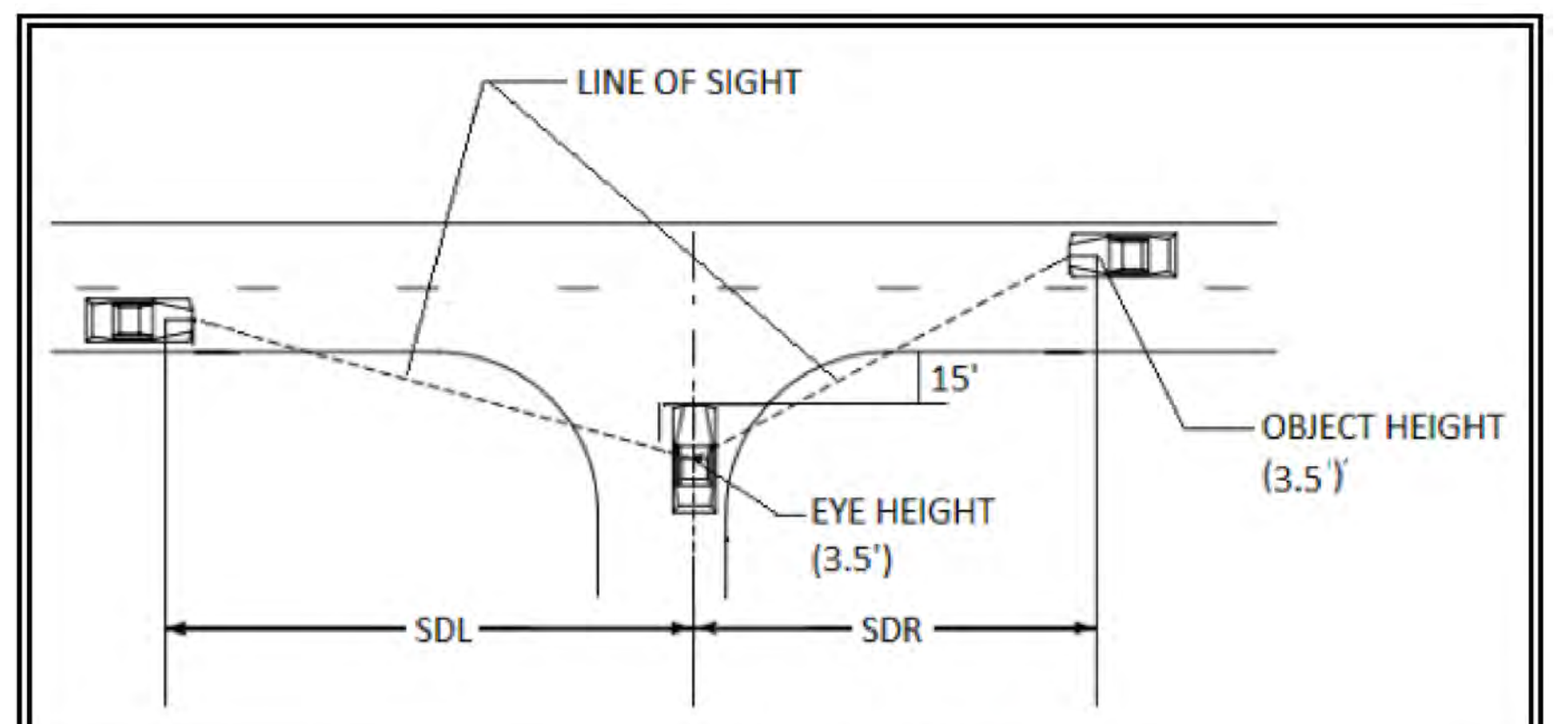
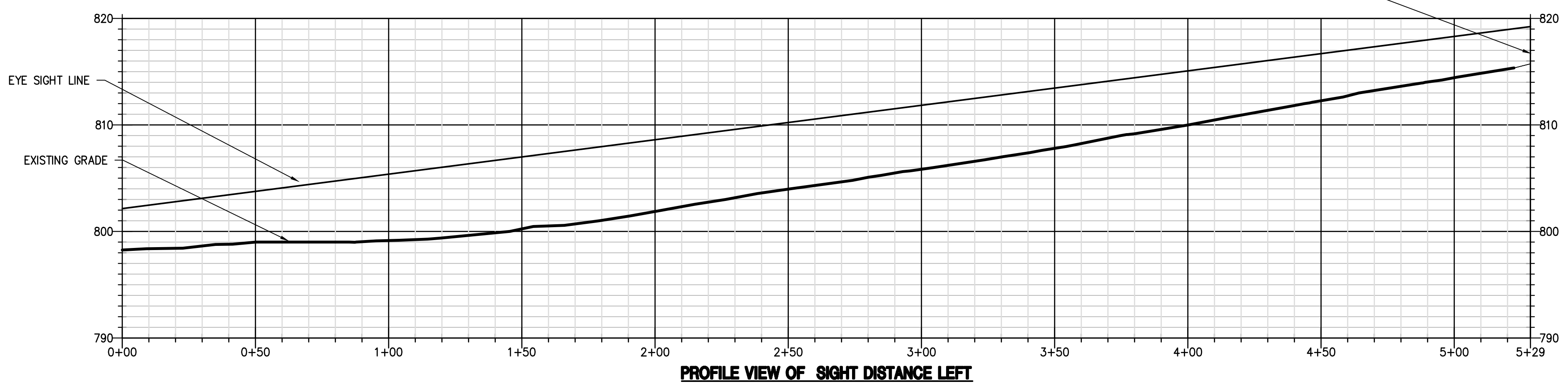
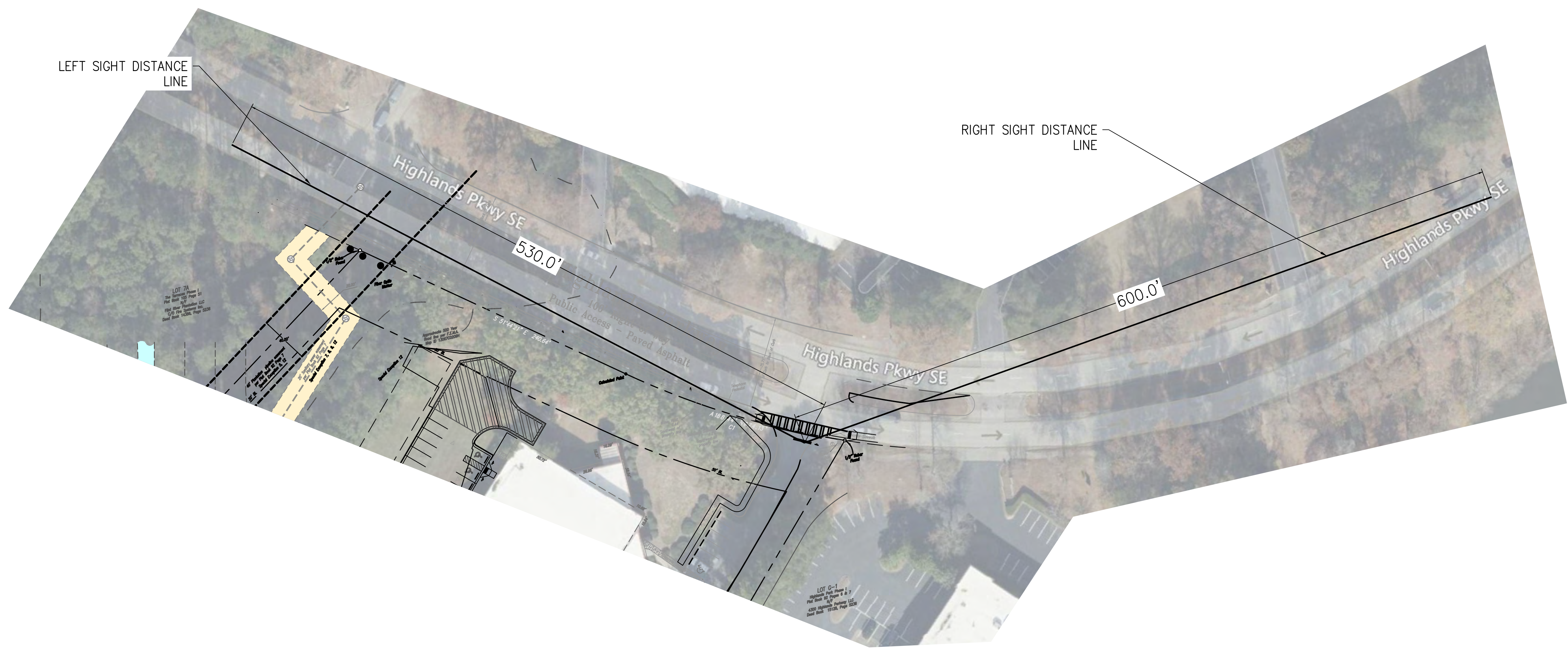
DATE	2-21-22	REVISIONS
SCALE	AS SHOWN	COUNTY COMMENTS
DRAWN	PG	04/13/2022 FIRE COMMENTS
CHECKED	GHB	07/18/2022 COUNTY COMMENTS



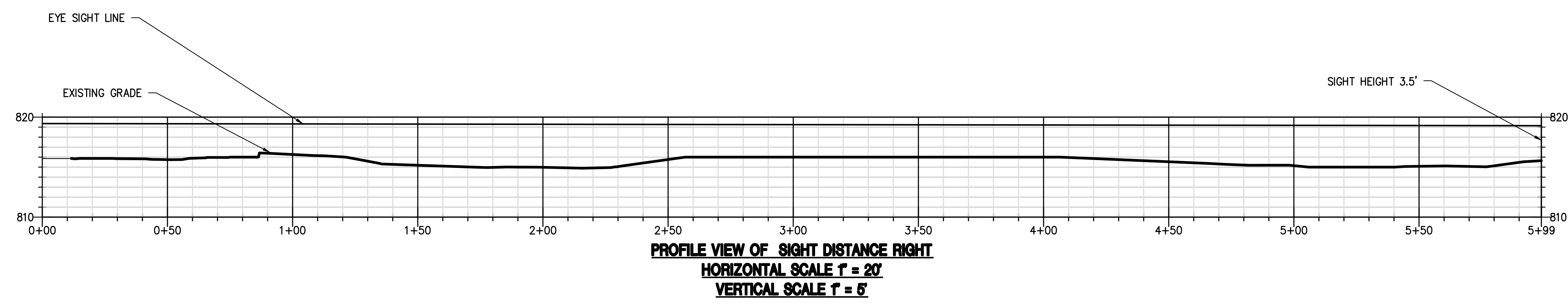
CONSTRUCTION PLANS FOR:
4500 HIGHLAND PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-1.1



ARTERIAL SPEED (MPH)	SIGHT DISTANCE, FT.*							
	2 Lane		3 Lanes		4 Lanes		5 Lanes	
	SDL	SDR	SDL	SDR	SDL	SDR	SDL	SDR
30	335	310	355	335	375	355	400	400
35	390	365	415	390	440	415	465	465
40	445	415	475	445	500	475	530	530
45	500	465	530	500	565	530	600	600
50	555	515	590	555	625	590	665	665
55	610	570	650	610	690	650	730	730
60	665	620	710	665	750	710	795	795
65	720	670	765	720	815	765	860	860



GRADING NOTES:

- PHASE 1 EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO ANY CONSTRUCTION.
- SEDIMENT BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER WORK. DETENTION & SEDIMENT BASINS MUST BE CLEANED OF ALL SILT AND SEDIMENT UPON COMPLETION AND ESTABLISHMENT OF PERMANENT VEGETATION.
- AFTER SITE CLEARING AND PREPARATION, CONTRACTOR SHALL HAVE A GEOTECHNICAL ENGINEER EVALUATE THE EXPOSED SUBGRADE. THIS EVALUATION SHOULD INCLUDE PROOF ROLLING OF SUBGRADE SOILS TO VERIFY THAT THE SUBGRADE IS OF SUFFICIENT COMPACTION AND MATERIAL FOR PLACEMENT OF FILL TO BEGIN. IF REMEDIAL WORK IS REQUIRED, CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATION WITH A GEOTECHNICAL ENGINEER. THIS ENGINEER SHALL BE RESPONSIBLE FOR MONITORING AND SUPERVISING ALL EXCAVATION AND PLACEMENT OF FILL MATERIALS FOR THE SITE. ALL FILL MUST BE TESTED FOR COMPACTION AND QUALITY DURING THE GRADING OPERATION. PLACE FILL MATERIALS ON CONTINUOUS LAYERS AND COMPACT IN ACCORDANCE WITH ASTM D698. FILL MATERIAL MUST BE CLEAN INORGANIC NATURAL SOIL. FILLS OF OVER 5' OR LOCATED IN NEW BUILDING OR PARKING AREAS MUST BE SUPERVISED BY A GEOTECHNICAL ENGINEER, SUPERVISED BY A GEOTECHNICAL ENGINEER. COMPACTION REQUIREMENTS USING STD PROCTOR COMPACTION TEST ASTM D698 (%=MAX. DENSITY AT OPTIMUM MOISTURE CONTENT)
UNPAVED AREAS: TOP 6 INCHES OF SUBGRADE AND SUBSEQUENT LIFTS / 90% SPT
PAVED AREAS: 95% SPT EXCEPT FOR TOP ONE FOOT WHICH WILL BE COMPACTED 98% OF SOIL'S MAX. DRY DENSITY EXTERIOR RAMPS/STEPS: 95% SPT
BUILDING SLABS: 98% OF SOIL'S MAX. DRY DENSITY
FILL WALLS: 95% SPT
COMPACTION ZONE FOR THESE AREAS SHALL INCLUDE A BEARING PLANE OF 1:1 FOR FILL AREAS WHICH SHALL EXTEND TO APPROVED SUBGRADE. COMPACTION REQUIREMENTS UNDER CURBING IS CONSIDERED UNDER PAVED AREAS REQUIREMENTS.
- ALL GRADES SLOPE AWAY FROM BUILDING A MINIMUM OF 3" IN 10 FT. ADDITIONAL POSITIVE DRAINAGE WILL BE REQUIRED FOR BUILDINGS, WHEN BUILDINGS ARE LOCATED WITHIN 20 FEET OF AN UPWARD SLOPE.
- EXCAVATION AND TRENCHES MUST BE CUT SUFFICIENTLY WIDE TO ENABLE INSTALLATION AND ALLOW INSPECTION. ALL CONSTRUCTION AND SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES MEETING APPLICABLE CITY, STATE AND FEDERAL CONSTRUCTION SAFETY STANDARDS.
- DISCOVERY OF UNSUITABLE SOILS OR ROCK MUST BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER. ALL EARTHWORK MUST NOT PROCEED AT THAT POINT UNTIL OWNER RELEASES THE CONTRACTOR TO PROCEED.
- MAXIMUM GRADED SLOPE ALLOWED 2H: 1V
- CONTRACTOR MUST HAVE GEOTECHNICAL ENGINEER OBSERVE AND APPROVE THE PROOF ROLLING OF ADDITIONAL PARKING AND DRIVE AREAS BEFORE AGGREGATE BASE COURSE IS APPLIED AND ALSO BEFORE THE ASPHALT OR CONCRETE IS APPLIED.
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.
- ALL SLOPES AND AREAS TO BE LANDSCAPED OR GRASSED SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. THE AREA SHALL THEN BE SEED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED. NOTE USE OF TOPSOIL DOES NOT CHANGE FINISH GRADE CONTOURS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF UTILITIES AND/OR LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS PROVIDED TO THE ENGINEER. INFORMATION SHOWN IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY AND CONSTRUCTION PROCEDURES, ORDINANCES, CODES, AND STANDARDS.
- CONTRACTOR SHALL OBSERVE, PROTECT, AND PRESERVE ALL AREAS SHOWN TO BE PROTECTED SUCH AS TREE PROTECTED AREAS, UNDISTURBED BUFFERS, WETLANDS, STREAMS, STREAM BUFFERS, CEMETERIES, STRUCTURES TO REMAIN, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS, DAMAGES, FINES, AND PENALTIES ASSOCIATED WITH FAILING TO PROTECT PROTECTED AREAS.
- CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION DEVICES FOR OFFSITE DRAINAGE, ONSITE DRAINAGE, EXISTING STORM PIPING AND ROOF DRAINAGE AS NECESSARY TO CONTROL STORM WATER RUNOFF DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EARTHWORK AND GRADING OPERATIONS FROM GRADING, SEDIMENTATION, OR DAMAGE DURING CONSTRUCTION. REPAIR OR REPLACEMENT OF EARTHWORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER. REMOVING AND CLEANING UP SEDIMENT ACCUMULATIONS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- AT THE END OF EACH DAY, AREAS FILLED THAT DAY MUST BE SEALED COMPLETELY BY COVERAGES BY ROLLING WITH A LOADED EARTH MOVING SCRAPER, DUMP TRUCK OR LARGE RUBBER TIRE ROLLER.
- PROOF ROLL COMPACTED FILL SURFACES UNDER SLABS-ON-GRADE, PAVERS, AND PAVING IMMEDIATELY BEFORE THESE STRUCTURAL SURFACES ARE PLACED. THE SOILS ENGINEER SHALL WITNESS AND APPROVE ALL SUBGRADES BEFORE STRUCTURAL SURFACES ARE PLACED.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING, FILLING, BACKFILLING, IMPORTING, EXPORTING, AND GRADING REQUIRED TO BRING ENTIRE PROJECT TO THE FINAL GRADES AND ELEVATIONS SHOWN IN THE DESIGN DOCUMENTS.
- ALL SITE WALLS ARE TO BE DESIGN/BUILT BY THE CONTRACTOR. THE ENGINEER OF RECORD FOR THE SITE WALLS SHALL DESIGN THE DRAINAGE SYSTEM REQUIRED TO REMOVE POTENTIAL GROUND WATER FROM BEHIND THE WALLS. NO WALL DRAINAGE SYSTEMS ARE SHOWN ON THESE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW OF THE PROPOSED WALL DRAINAGE SYSTEM.
- ALL ORGANICS AND TOP SOIL SHALL BE REMOVED FROM THE ENTIRE FOOTPRINT OF THE DAM.
- EARTHEN FILL SHALL BE CL AND ML MATERIAL APPROVED FOR USE BY GEOTECHNICAL ENGINEER (PE) AND PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR UNDER SAID ENGINEER'S DIRECTION.
- NO PORTION OF THIS PROPERTY IS INSIDE DESIGNATED F.I.A SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13067C0204 G, DATED DECEMBER 16, 2008.

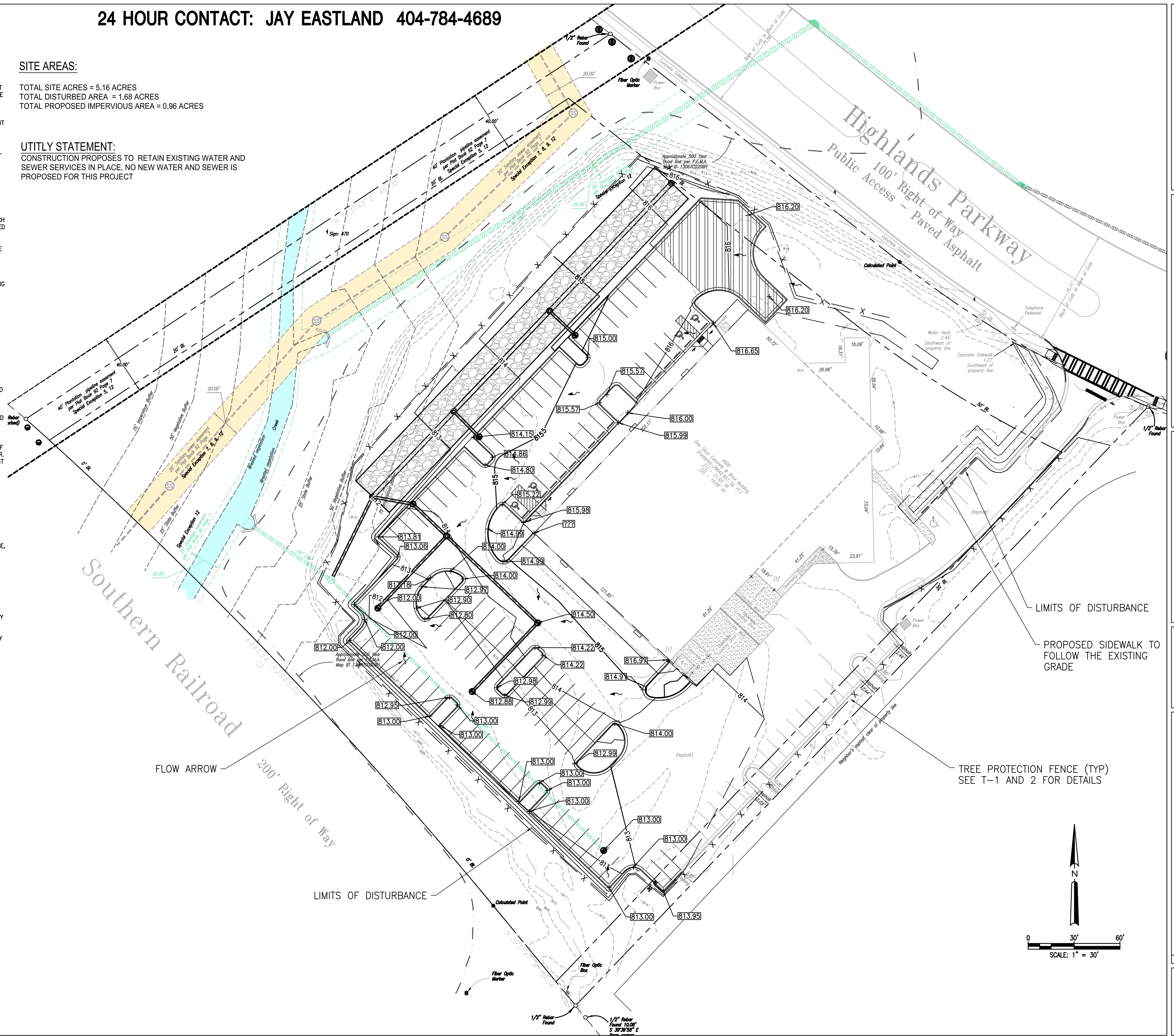
24 HOUR CONTACT: JAY EASTLAND 404-784-4689

SITE AREAS:

TOTAL SITE ACRES = 5.16 ACRES
TOTAL DISTURBED AREA = 1.68 ACRES
TOTAL PROPOSED IMPERVIOUS AREA = 0.96 ACRES

UTILITY STATEMENT:

CONSTRUCTION PROPOSES TO RETAIN EXISTING WATER AND SEWER SERVICES IN PLACE. NO NEW WATER AND SEWER IS PROPOSED FOR THIS PROJECT



Prepared By:
**CRESCENT VIEW
ENGINEERING, LLC:**
211 Fraiser Street
Marietta, GA 30060
678-324-8410
www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082

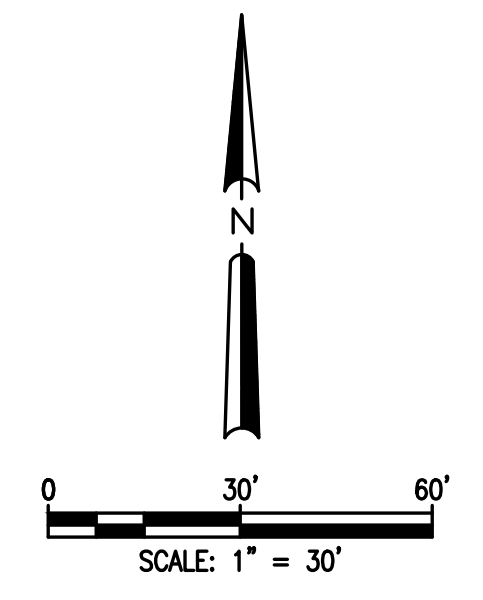
GRADING PLAN

DATE	REVISIONS
2-21-22	AS SHOWN
03/23/2022	COUNTY COMMENTS
04/13/2022	FIRE COMMENTS
07/18/2022	COUNTY COMMENTS



CONSTRUCTION PLANS FOR:
**4500 HIGHLAND
PARKWAY SE**
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

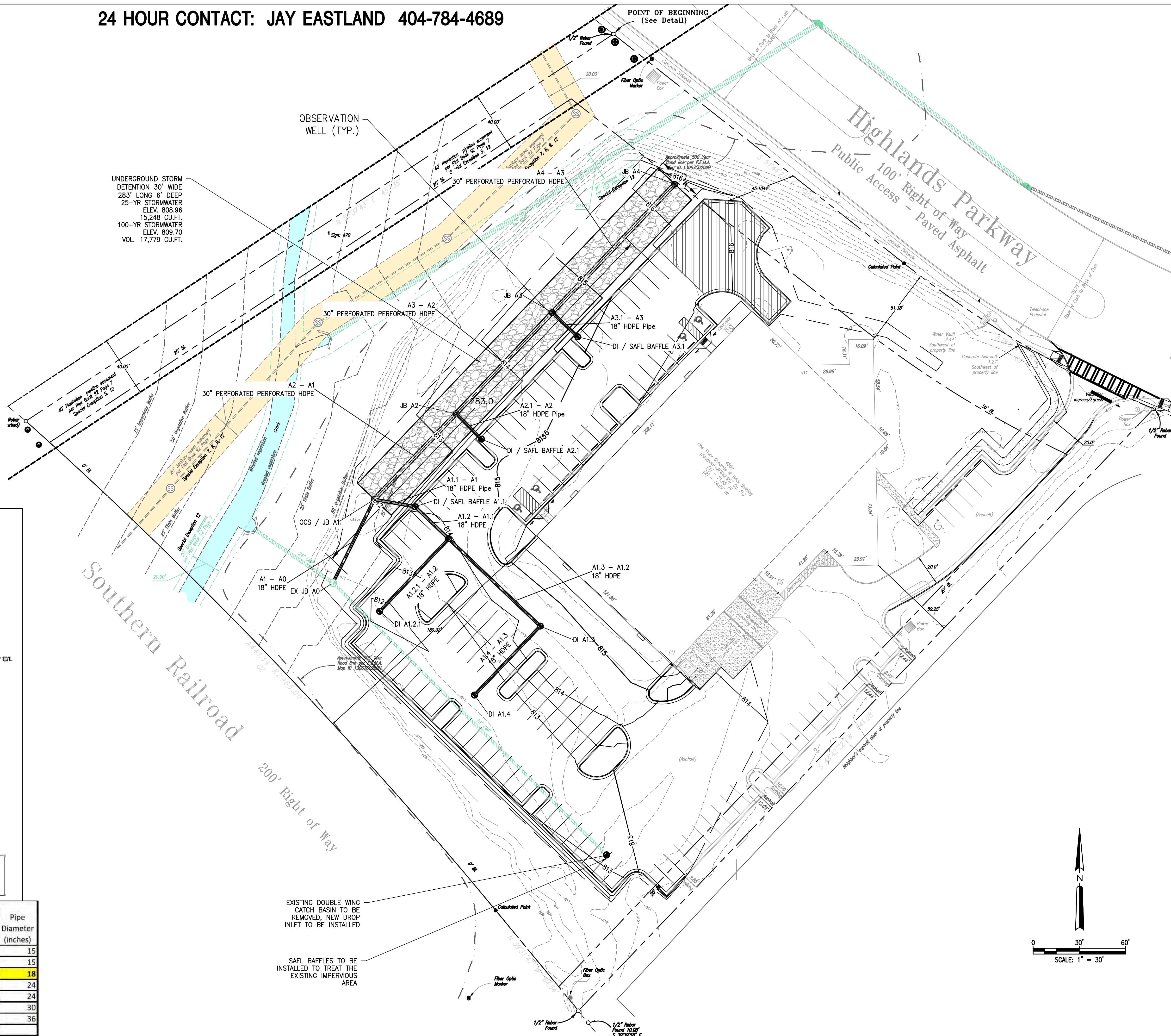
CVE PI # 21-468
SHEET NO.
C-2



COBB COUNTY - STORM SEWER CONSTRUCTION NOTES:

24 HOUR CONTACT: JAY EASTLAND 404-784-4689

- THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD PIPE CULVERTS NUMBER 1030D, LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF REINFORCED CONCRETE PIPE OR GAGE OF CORRUGATED STEEL PIPE OR TYPE 2 CORRUGATED ALUMINUM PIPE UNDER FILL AND THE METHOD OF BACK-FILLING. THE MINIMUM GAGE FOR CORRUGATED STEEL PIPE ALLOWED IS 12 (0.109 INCHES). ALL CORRUGATED STEEL PIPES ARE TO BE FULLY COATED. THE MINIMUM GAGE FOR TYPE 2 COORDINATED ALUMINUM PIPE UNDER COBB COUNTY STANDARDS IS 14 (0.075 INCHES).
- FIELD JOINTS FOR CORRUGATED PIPE SHALL BE MADE WITH BANDS OF THE SAME BASE METAL AND COATING AS THE CORRUGATED PIPE. BANDS SHALL BE OF THE HUGGER TYPE DESIGNED TO FULLY ENGAGE AT LEAST ONE ANNUAL CORRUGATION AT THE END OF EACH CORRUGATED PIPE AROUND ITS ENTIRE CIRCUMFERENCE. MINIMUM BAND WIDTH SHALL EQUAL THE CENTERLINE LENGTH OF FOUR (4) ANNUAL CORRUGATIONS. BANDS SHALL CONFORM TO CURRENT ASTM/AASHTO INDUSTRY STANDARDS AS TO SECURING BOLTS, THEIR NUMBER AND PLACEMENT.
- CONCRETE PIPE SECTIONS MAY BE JOINED WITH BITUMINOUS PLASTIC CEMENT JOINTS, RUBBER-TYPE GASKET JOINTS, O-RING GASKET JOINTS OR PRE-FORMED PLASTIC GASKET JOINTS. IN BITUMINOUS PLASTIC CEMENT JOINTS, THE ANNULAR SPACE SHALL BE FILLED WITH JOINT MATERIAL, AND THE INSIDE OF EACH JOINT WIPED SMOOTH. RUBBER-TYPE, O-RING, AND PRE-FORMED PLASTIC GASKET JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL CATCH BASINS, DROP INLETS OR OTHER DRAINAGE STRUCTURES SHALL COMPLY WITH THE LATEST STANDARDS APPROVED AND PROMULGATED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION IN 'STANDARDS SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES', LATEST EDITION.
- THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD '1030', LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF PIPE AND THE METHOD OF BACK-FILLING.
- AN AS-BUILT SURVEY OF STORMWATER INFRASTRUCTURE MUST BE SUBMITTED TO CITY OF SMYRNA STORMWATER MANAGEMENT PRIOR TO FINAL PLAT APPROVAL OR OBTAINING A CERTIFICATE OF OCCUPANCY. A TABLE LISTING THE STRUCTURE NAME, NORTHING, EASTING, PIPE MATERIAL, INVERT AND TOP ELEVATIONS FOR EACH STRUCTURE MUST BE INCLUDED ON THE AS-BUILT DRAWINGS SUBMITTED TO CITY OF SMYRNA STORMWATER MANAGEMENT. (NORTHING AND EASTING SHOULD BE BASED ON STATE PLANE COORDINATE SYSTEM).
- SUBMIT AS-BUILT DRAWINGS OF DAM/ WALLS, CONTROL STRUCTURE AND STORM DRAIN PIPE SYSTEM TO CITY OF SMYRNA SWM. AS-BUILT SURVEY OF STORMWATER INFRASTRUCTURES MUST BE SUBMITTED TO CITY OF SMYRNA STORMWATER MANAGEMENT PRIOR TO FINAL PLAT APPROVAL, OR PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR COMMERCIAL SITES. A TABLE LISTING THE STRUCTURE NAME, NORTHING, EASTING, PIPE MATERIAL, INVERT, AND TOP ELEVATIONS FOR EACH STRUCTURE MUST BE INCLUDED ON THE AS-BUILT DRAWINGS SUBMITTED TO CITY OF SMYRNA STORMWATER MANAGEMENT. (NORTHING AND EASTINGS SHOULD BE BASED ON STATE PLANE COORDINATE SYSTEM). PROVIDE THE PROJECT LAND DISTURBANCE PERMIT (LDP) NUMBER ON THE AS-BUILT DRAWINGS.
- AS-BUILT CERTIFICATION IS REQUIRED FOR DETENTION / WATER QUALITY POND, PRIOR TO FINAL PLAT OR CERTIFICATE OF OCCUPANCY.
- AS-BUILT RETAINING WALL CERTIFICATION IS REQUIRED FOR ALL DETENTION / WATER QUALITY WALLS, PRIOR TO FINAL PLAT APPROVAL OR CERTIFICATE OF OCCUPANCY.



UNDERGROUND STORM DETENTION 30' WIDE 283' LONG 6' DEEP 25-YR STORMWATER ELEV. 808.96 15,248 CU.FT. 100-YR STORMWATER ELEV. 809.70 VOL. 17,779 CU.FT.

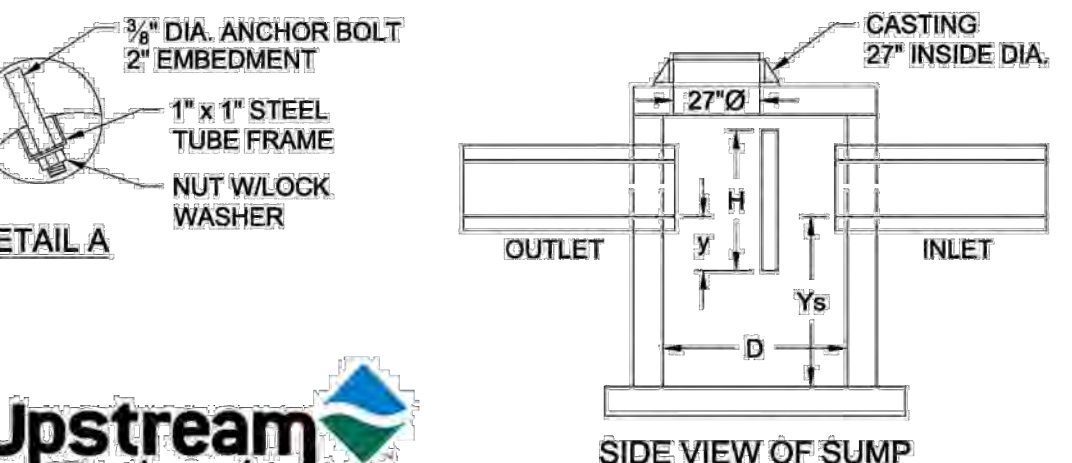
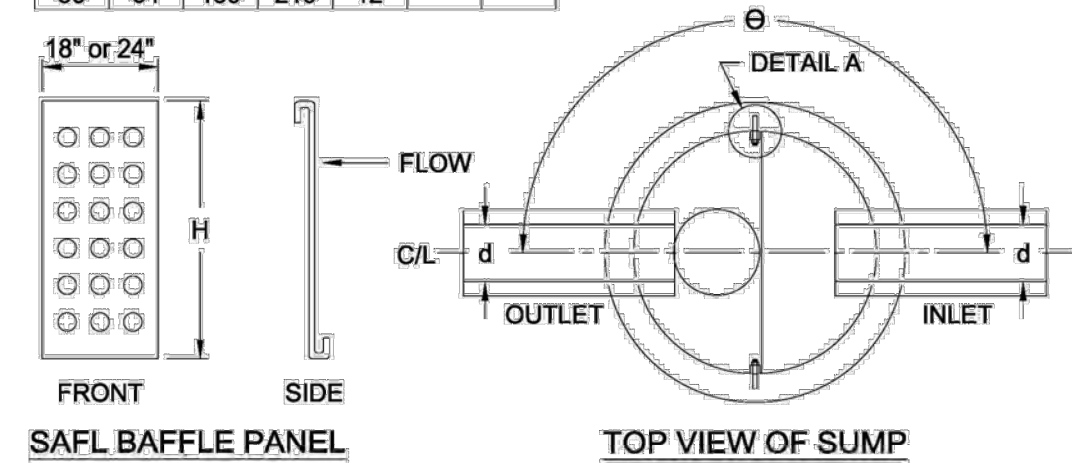
OBSERVATION WELL (TYP.)

POINT OF BEGINNING (See Detail)

Highlands Parkway
Public Access - Paved Asphalt
100' Right of Way

Southern Railroad
200' Right of Way

d (IN.)	H (IN.)	θ (DEG.)	y (IN.)	Yes	D
12	34	130	230	12	
15	34	130	230	12	
18	34	130	230	12	
21	44	140	220	12	
24	44	140	220	12	
27	44	140	220	12	
30	54	150	210	12	
36	54	150	210	12	

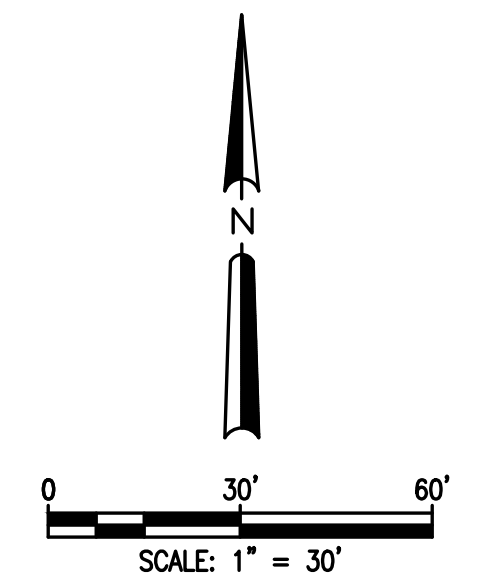


UPSTREAM TECHNOLOGIES INC. IS THE EXCLUSIVE LICENSEE OF THE SAFL BAFFLE
 SAFL BAFFLE STRUCTURE STANDARD SUMP MANHOLE W/BAFFLE
 SAFL BAFFLE
 © 2011 UPSTREAM TECHNOLOGIES INC.

Name	Model	Total Load (lbs)	Total Load Removed (lbs)	Removal Efficiency (%)	Model Height (ft)	Model Diameter (ft)	Pipe Diameter (inches)
SAFLBaffle	42	52,653	14,802	28.1	2	4	15
SAFLBaffle	44	52,653	23,507	44.6	4	4	15
SAFLBaffle	55	52,653	30,610	58.1	5	5	18
SAFLBaffle	63	52,653	32,464	61.7	3	6	24
SAFLBaffle	66	52,653	36,843	70.0	6	6	24
SAFLBaffle	86	52,653	42,402	80.5	6	8	30
SAFLBaffle	106	52,653	46,204	87.8	6	10	36

EXISTING DOUBLE WING CATCH BASIN TO BE REMOVED, NEW DROP INLET TO BE INSTALLED

SAFL BAFFLES TO BE INSTALLED TO TREAT THE EXISTING IMPERVIOUS AREA



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Prepared For:
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082

STORMWATER PLAN

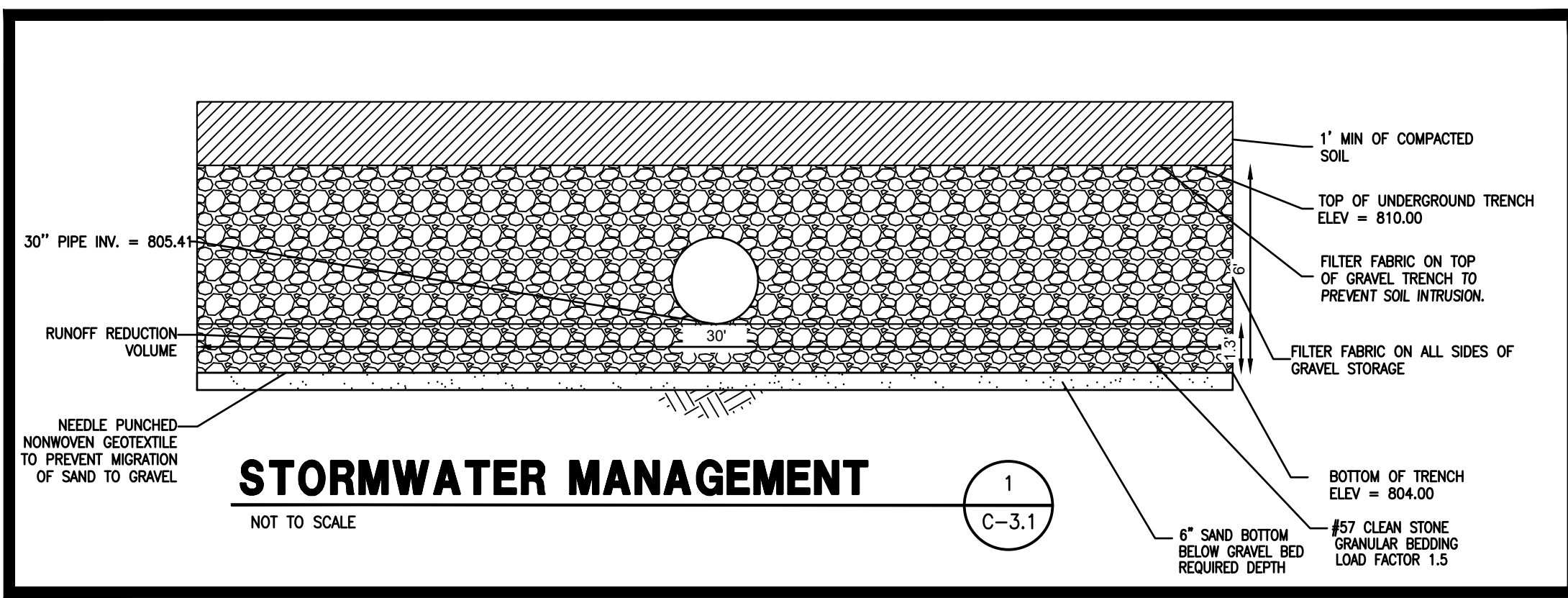
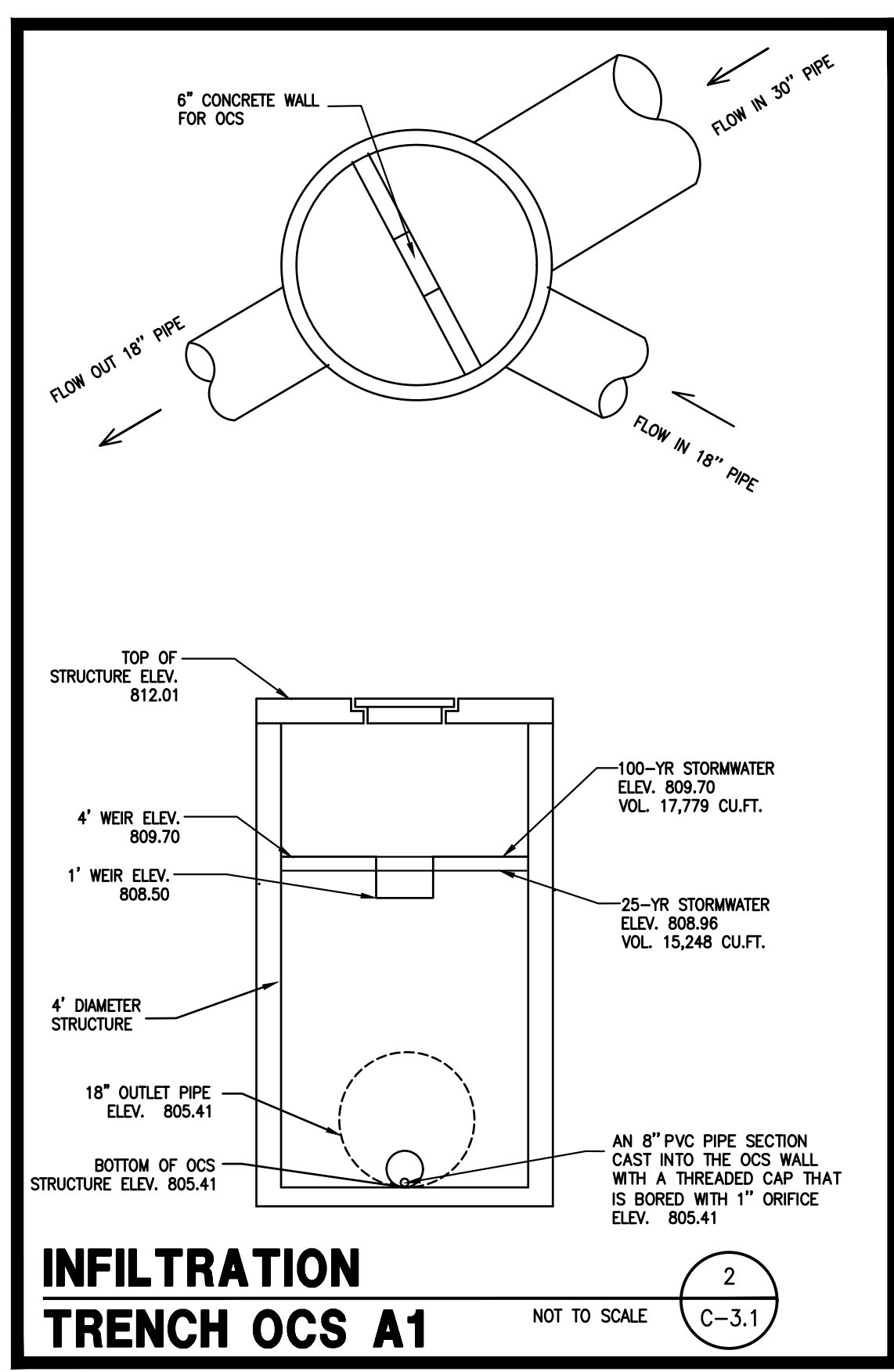
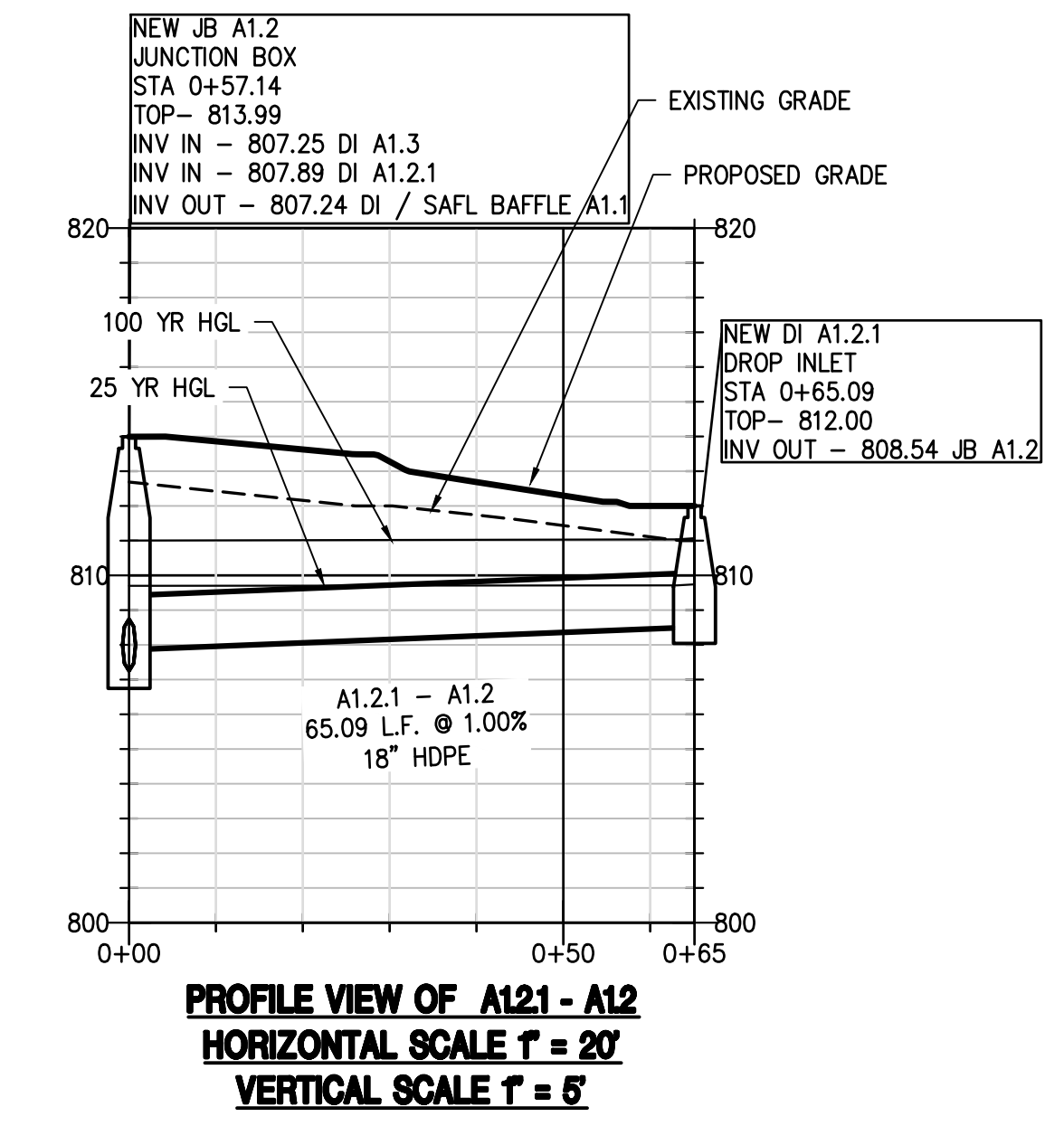
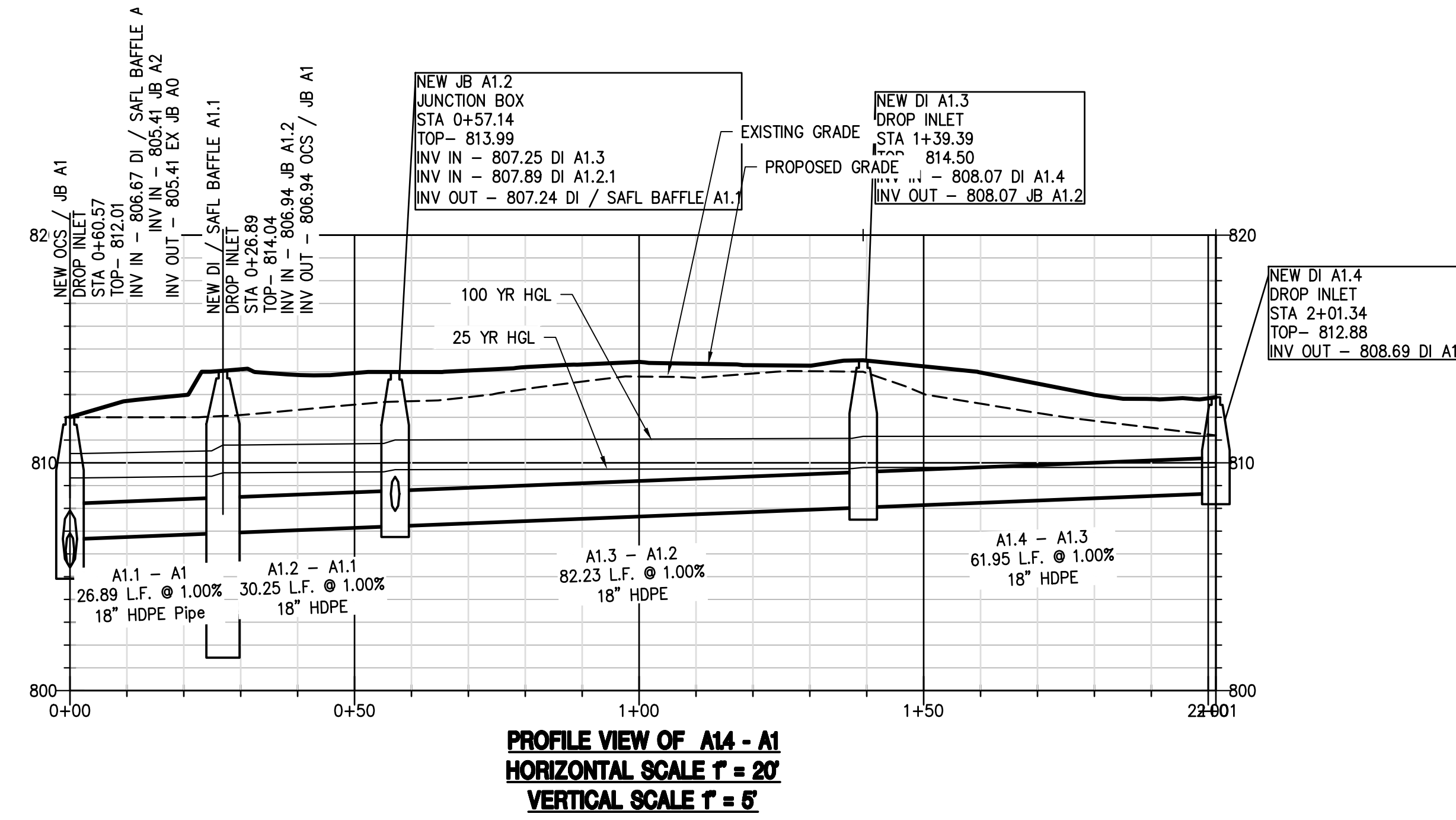
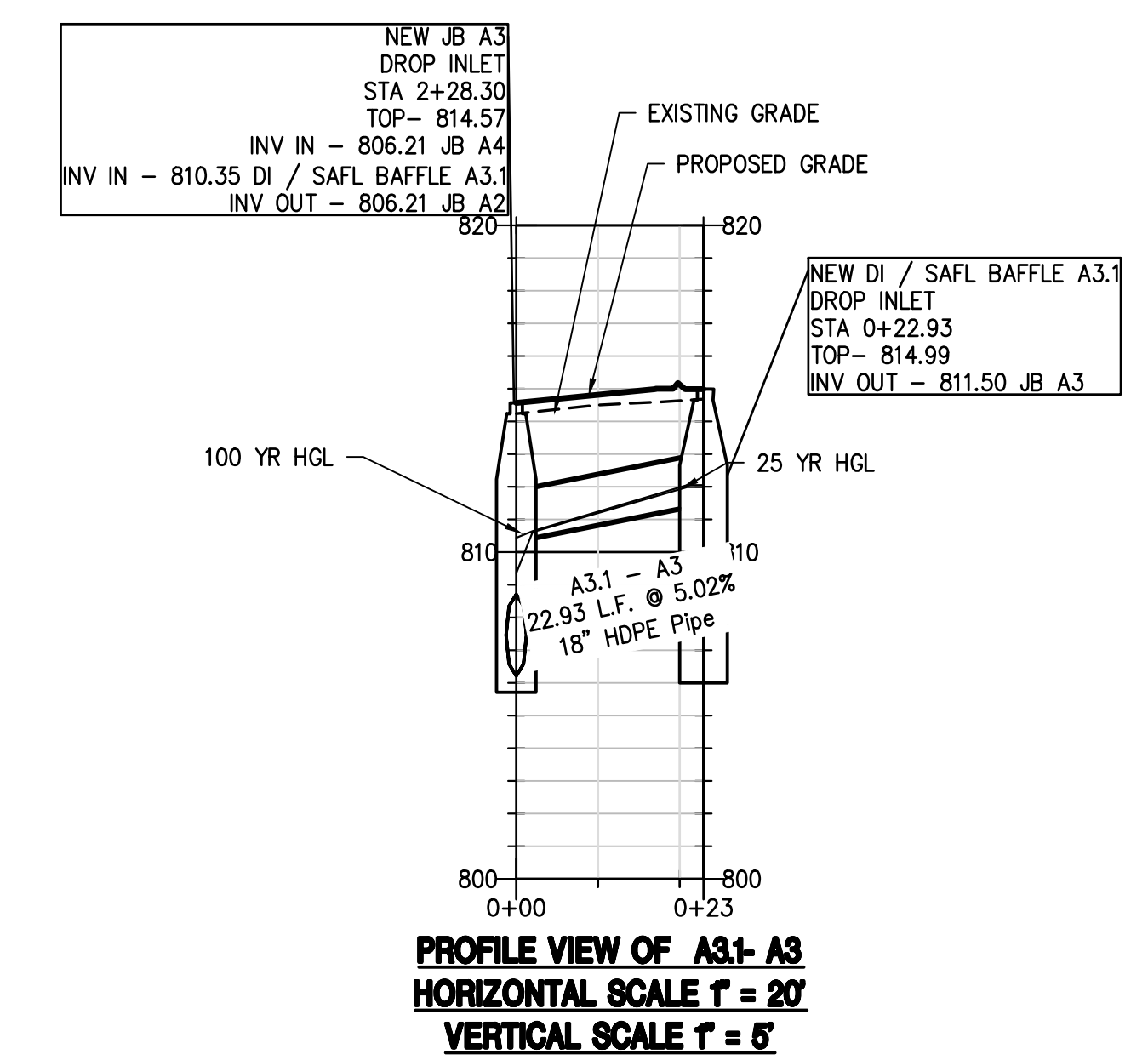
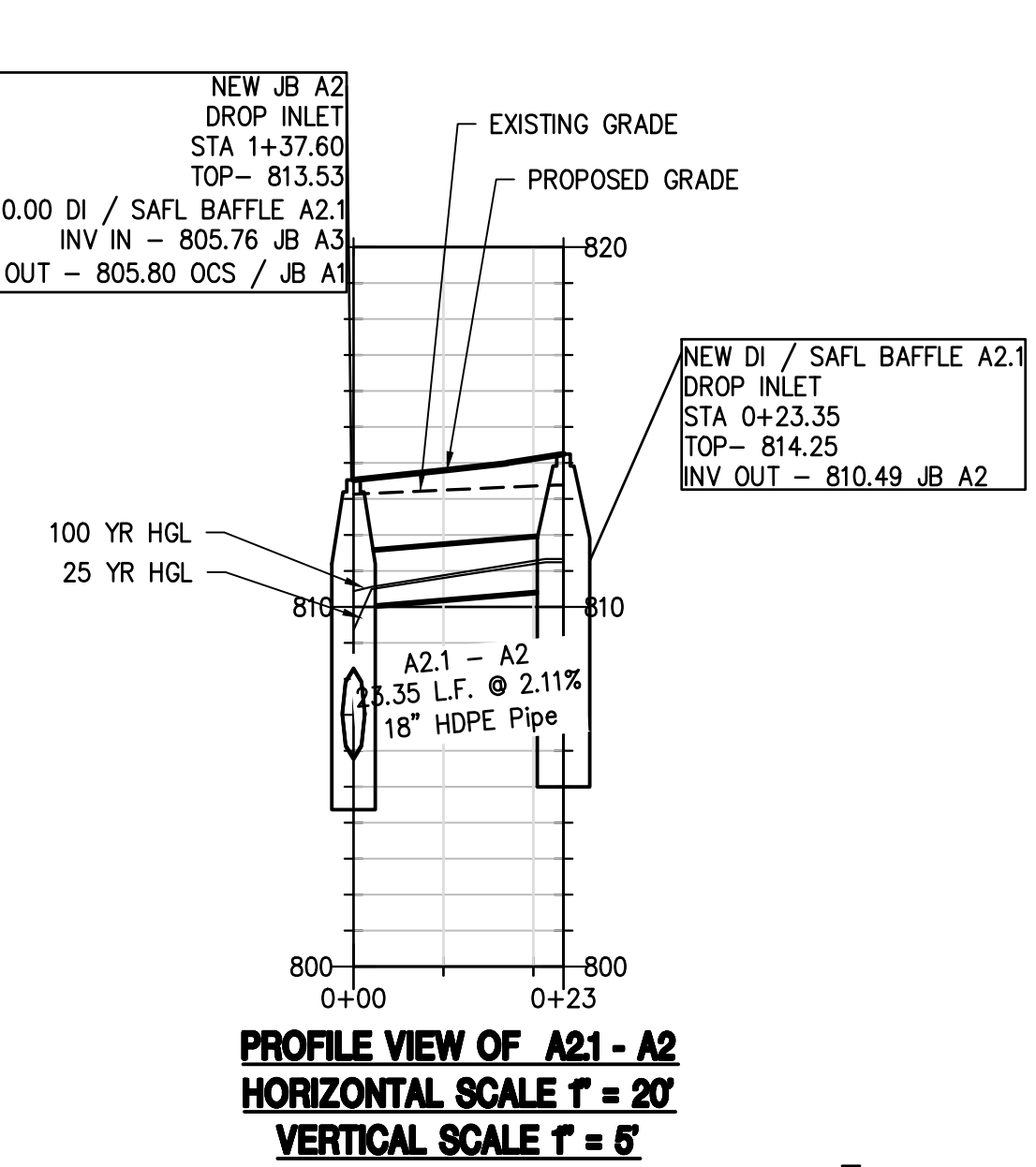
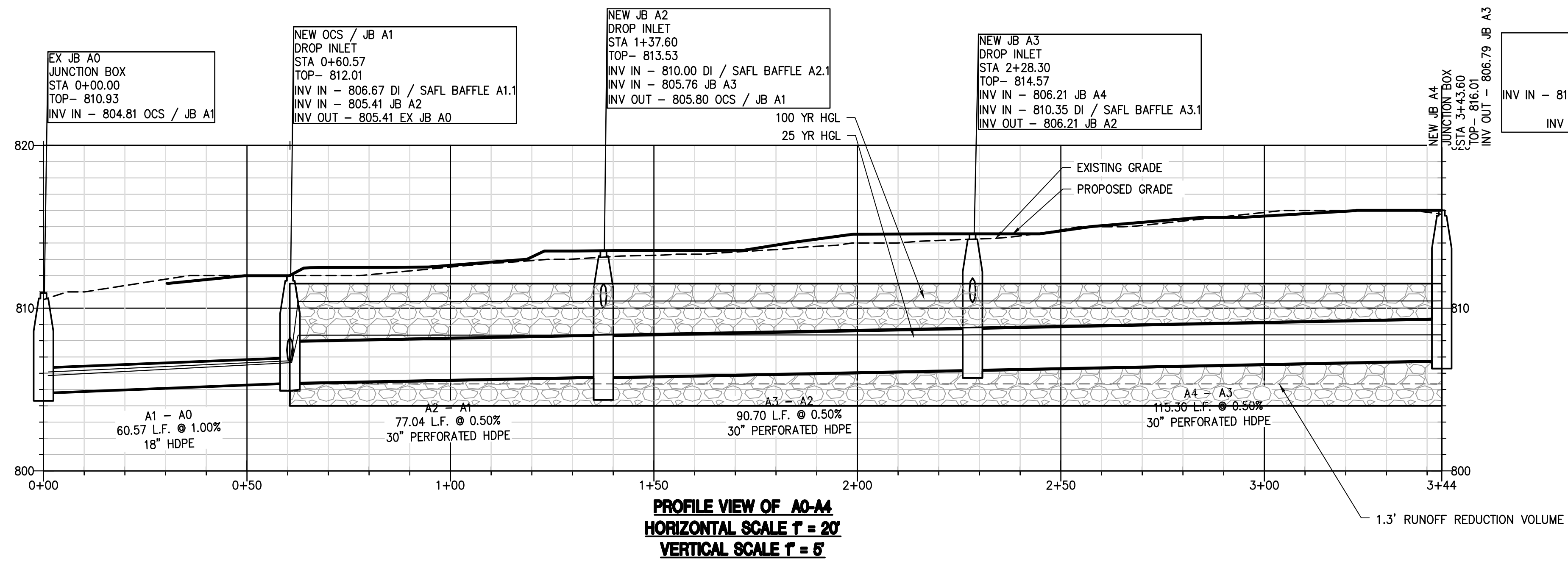
DATE	SCALE	AS SHOWN	REVISIONS
2-21-22	PG	09/23/2022	COUNTY COMMENTS
		04/13/2022	FIRE COMMENTS
		07/18/2022	COUNTY COMMENTS



CONSTRUCTION PLANS FOR:
4500 HIGHLAND PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-3



Runoff Reduction / Stone Storage Infiltration Trench Calculations

Runoff Reduction Calculations - Basin 1

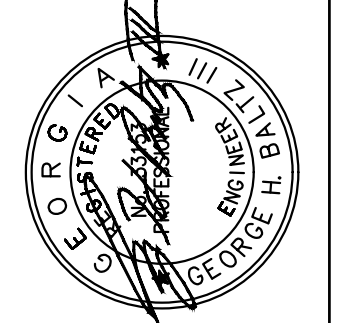
Basin 1 Area	1.22 acres
Treated Impervious Area (from impervious Chart)	53150 SF
Percent Treated Impervious of Site (I)	100 %
$RRv = (1'')(Rv)(A) / 12$	
$Rv = 0.05 + 0.009(I)$	
Rv =	0.95 Unitless
RRv =	4208 CF
All RRv Volume to be provided in Infiltration Trench	
Infiltration Trench filled with #57 stone w/ 40% void Ratio	
Required RRv Volume / 0.40 =	10519 CF
Infiltration Trench Calculations	
Length =	283 FT
Width =	30 FT
Depth =	1.3 FT
Required Trench Volume =	10519 CF
Provided Trench Volume =	11037 CF
Provided RRv =	4415 CF
Provided Volume is Greater than Required Volume	

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Prepared For:
 4500 HIGHLAND PARKWAY SE
 SMYRNA, GA 30082

STORMWATER PROFILE

DATE	REVISIONS
2-21-22	AS SHOWN
03/23/2022	COUNTY COMMENTS
04/13/2022	FIRE COMMENTS
PG	
CHECKED: GHB	07/18/2022 COUNTY COMMENTS



CONSTRUCTION PLANS FOR:
 4500 HIGHLAND
 PARKWAY SE
 LAND LOT 608, DISTRICT 17, SMYRNA
 COBB COUNTY, GA 30082

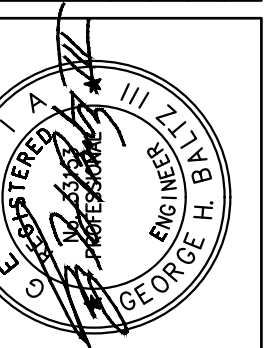
CVE PI# 21-468

SHEET NO.
C-3.1

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SMYRNA, GA 30082

STORMWATER PROFILE



CONSTRUCTION PLANS FOR:
4500 HIGHLAND
PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-3.2

10 YR INLET CHART																										
LineNo.	Inlet ID	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbLength (ft)	CurbWidth (ft)	GrateArea (sqft)	GrateLength (ft)	GrateWidth (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	passLine N
1	OCS / JB A1	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	JB A2	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	JB A3	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	DI A3.1	0.19	5	7.95	0.95	1.44	0	1.44	0	Grate	....	....	6	2	3	Sag	1.5	0.083	0.02	1.5	0.31	n/a	n/a	0.18	4.3	Sag
5	DI A2.1	0.43	5	7.95	0.95	3.25	0	3.25	0	Grate	....	....	6	3	2	Sag	1.5	0.083	0.02	1.5	0.45	n/a	n/a	0.33	11.74	Sag
6	DI A1.1	0.2	5	7.95	0.95	1.51	0	1.24	0.27	Grate	....	....	....	3	2	0.04	1.5	0.083	0.02	1.5	0.31	0.1	1.25	0.19	4.64	10
7	JB A1.2	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	DI / WQ A1.3	0.21	5	7.95	0.95	1.59	0	1.29	0.3	Grate	....	....	....	3	2	0.04	1.5	0.083	0.02	1.5	0.32	0.11	1.3	0.19	4.78	9
9	DI A1.4	0.12	5	7.95	0.95	0.91	0.3	0.87	0.33	Grate	....	....	....	3	2	0.03	1.5	0.03	0.03	1.5	0.26	0.08	2.7	0.13	4.39	10
10	DI A1.2.1	0.23	5	7.95	0.95	1.74	0.6	2.33	0	Grate	....	....	6	3	2	Sag	1.5	0.083	0.03	1.5	0.4	n/a	n/a	0.27	6.43	Sag
11	JB A4	0.1	5	7.95	0.95	0.76	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

25 YR PIPE CHART																									
Line	ToLine	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	Rnfallnt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID	
1	Outfall	60.568	0	1.48	0	0	1.41	0	19.5	5.1	7.17	0	7.17	11.33	4.06	18	0.99	804.81	805.41	805.91	806.72	810.93	812.01	A1 - A0	
2	1	77.035	0	0.72	0	0	0.68	0	18.5	5.3	3.6	0	3.6	31.42	0.73	30	0.5	805.41	805.8	809.34	809.34	812.01	813.53	A2 - A1	
3	2	90.696	0	0.29	0	0	0.28	0	15.5	5.8	1.6	0	1.6	31.42	0.33	30	0.5	805.76	806.21	809.35	809.35	813.53	814.75	A3 - A2	
4	3	22.925	0.19	0.19	0.95	0.18	0.18	5	5	9.5	1.71	0	1.71	25.48	5.79	18	5.02	810.35	811.5	810.61	811.99	814.75	814.99	A3.1 - A3	
5	2	23.346	0.43	0.43	0.95	0.41	0.41	5	5	9.5	3.86	0	3.86	16.48	5.99	18	2.1	810	810.49	810.49	811.24	813.53	814.25	A2.1 - A2	
6	1	26.889	0.2	0.76	0.95	0.19	0.72	5	7.7	8.1	5.82	0	5.82	11.4	3.29	18	1	806.67	806.94	809.34	809.41	812.01	814.04	A1.1 - A1	
7	6	30.249	0	0.56	0	0	0.53	0	7.5	8.1	4.33	0	4.33	11.38	2.45	18	1	806.94	807.25	809.56	809.61	814.04	813.99	A1.2 - A1.1	
8	7	82.231	0.21	0.33	0.95	0.2	0.31	5	6.7	8.5	2.67	0	2.67	11.36	1.51	18	1	807.25	808.07	809.7	809.75	813.99	814.5	A1.3 - A1.2	
9	8	61.954	0.12	0.12	0.95	0.11	0.11	5	5	9.5	1.08	0	1.08	11.38	0.69	18	1	808.07	808.69	809.8	809.8	814.5	812.88	A1.4 - A1.3	
10	7	65.093	0.23	0.23	0.95	0.22	0.22	5	5	9.5	2.07	0	2.07	11.37	1.28	18	1	807.89	808.54	809.7	809.71	813.99	812	A1.2.1 - A1.2	
11	3	115.305	0.1	0.1	0.95	0.1	0.1	5	5	9.5	0.9	0	0.9	31.51	0.18	30	0.5	806.21	806.79	809.36	809.36	814.75	816.01	A4 - A3	

100 YR PIPE CHART																									
Line	ToLine	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	Rnfallnt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID	
1	Outfall	60.568	0	1.48	0	0	1.41	0	16.7	7	9.79	0	9.79	11.33	5.54	18	0.99	804.81	805.41	806.05	806.87	810.93	812.01	A1 - A0	
2	1	77.035	0	0.72	0	0	0.68	0	15.8	7.2	4.9	0	4.9	31.42	1	30	0.5	805.41	805.8	810.41	810.42	812.01	813.53	A2 - A1	
3	2	90.696	0	0.29	0	0	0.28	0	13.4	7.8	2.15	0	2.15	31.42	0.44	30	0.5	805.76	806.21	810.44	810.44	813.53	814.75	A3 - A2	
4	3	22.925	0.19	0.19	0.95	0.18	0.18	5	5	11.8	2.13	0	2.13	25.48	6.18	18	5.02	810.35	811.5	810.64	812.05	814.75	814.99	A3.1 - A3	
5	2	23.346	0.43	0.43	0.95	0.41	0.41	5	5	11.8	4.81	0	4.81	16.48	6.4	18	2.1	810	810.49	810.56	811.33	813.53	814.25	A2.1 - A2	
6	1	26.889	0.2	0.76	0.95	0.19	0.72	5	7.2	10.3	7.46	0	7.46	11.4	4.22	18	1	806.67	806.94	810.41	810.53	812.01	814.04	A1.1 - A1	
7	6	30.249	0	0.56	0	0	0.53	0	7	10.4	5.54	0	5.54	11.38	3.14	18	1	806.94	807.25	810.78	810.85	814.04	813.99	A1.2 - A1.1	
8	7	82.231	0.21	0.33	0.95	0.2	0.31	5	6.4	10.8	3.39	0	3.39	11.36	1.92	18	1	807.25	808.07	811	811.08	813.99	814.5	A1.3 - A1.2	
9	8	61.954	0.12	0.12	0.95	0.11	0.11	5	5	11.8	1.34	0	1.34	11.38	0.76	18	1	808.07	808.69	811.16	811.17	814.5	812.88	A1.4 - A1.3	
10	7	65.093	0.23	0.23	0.95	0.22	0.22	5	5	11.8	2.57	0	2.57	11.37	1.46	18	1	807.89	808.54	811	811.04	813.99	812	A1.2.1 - A1.2	
11	3	115.305	0.1	0.1	0.95	0.1	0.1	5	5	11.8	1.12	0	1.12	31.51	0.23	30	0.5	806.21	806.79	810.44	810.44	814.75	816.01	A4 - A3	

ES&PC NOTES:

- THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
- SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
- EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E.: CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
- ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
- TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 14 DAYS.
- ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
- ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS.
- PERSON RESPONSIBLE FOR EROSION CONTROL MEASURES IS: 24 HOUR EMERGENCY CONTACT: SHAWN RAINY 404-422-3412.
- CUT AND FILL SLOPES NOT TO EXCEED 2H:1V.
- SEDIMENTATION & EROSION CONTROL MEASURES TO BE INSPECTED DAILY.
- NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
- IT IS THE RESPONSIBILITY OF THE PROPERTY OWNERS OF THE STORMWATER MANAGEMENT FACILITY TO KEEP THE ACCESS DRIVE FREE OF OBSTRUCTIONS AND TO MAINTAIN THE FACILITY FREE OF OBSTRUCTIONS, SILT AND DEBRIS, AND OPERATIONAL.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- DEVELOPER IS TO CLEAN OUT ACCUMULATED SILT IN DETENTION POND AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- ACCESS EASEMENT TO BE CLEARED AND GRUBBED.

TOTAL SITE ACRES = 5.16 ACRES
TOTAL DISTURBED AREA = 1.68 ACRES

A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A PUBLIC ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE AVAILABLE ON THE PROVIDED WEBSITE UNTIL A NOT HAS BEEN SUBMITTED.

STATE WATERS STATEMENT:

THERE ARE NO WATERS OF THE STATE THAT EXIST ONSITE. THERE ARE STATE WATERS THAT EXIST WITHIN 200 FEET OF THE SITE.

THIS SITE IS LOCATED WITHIN A ZONE [A, AE, SHADED ZONE X] AS DEFINED BY FIRM PANEL NUMBER 13067C0209J DATED 10/05/2018, FOR COBB COUNTY AND INCORPORATED AREAS.

PHASE 2 - GRADING DESCRIPTION:

BUILDING PADS, ACCESS ROAD, AND ALL SLOPES ARE GRADED AND STABILIZED WITH TEMPORARILY VEGETATION. ALL BMPs ARE INSTALLED INCLUDING, INLET SEDIMENT TRAPS, CHECK DAMS, AND SILT FENCE. STORM SEWER AND SANITARY STRUCTURE AND PIPES ARE INSTALLED WITH OPEN CUT TRENCHES.

BUILDING PAD, PARKING PAVEMENT, HEAD AND CURB, CONCRETE VALLEY GUTTER DRIVEWAY, AND SIDEWALK ARE INSTALLED IN THIS STAGE.

ALL UTILITIES, UTILITY CONNECTION AND RELOCATION ARE INSTALLED IN THIS PHASE.

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

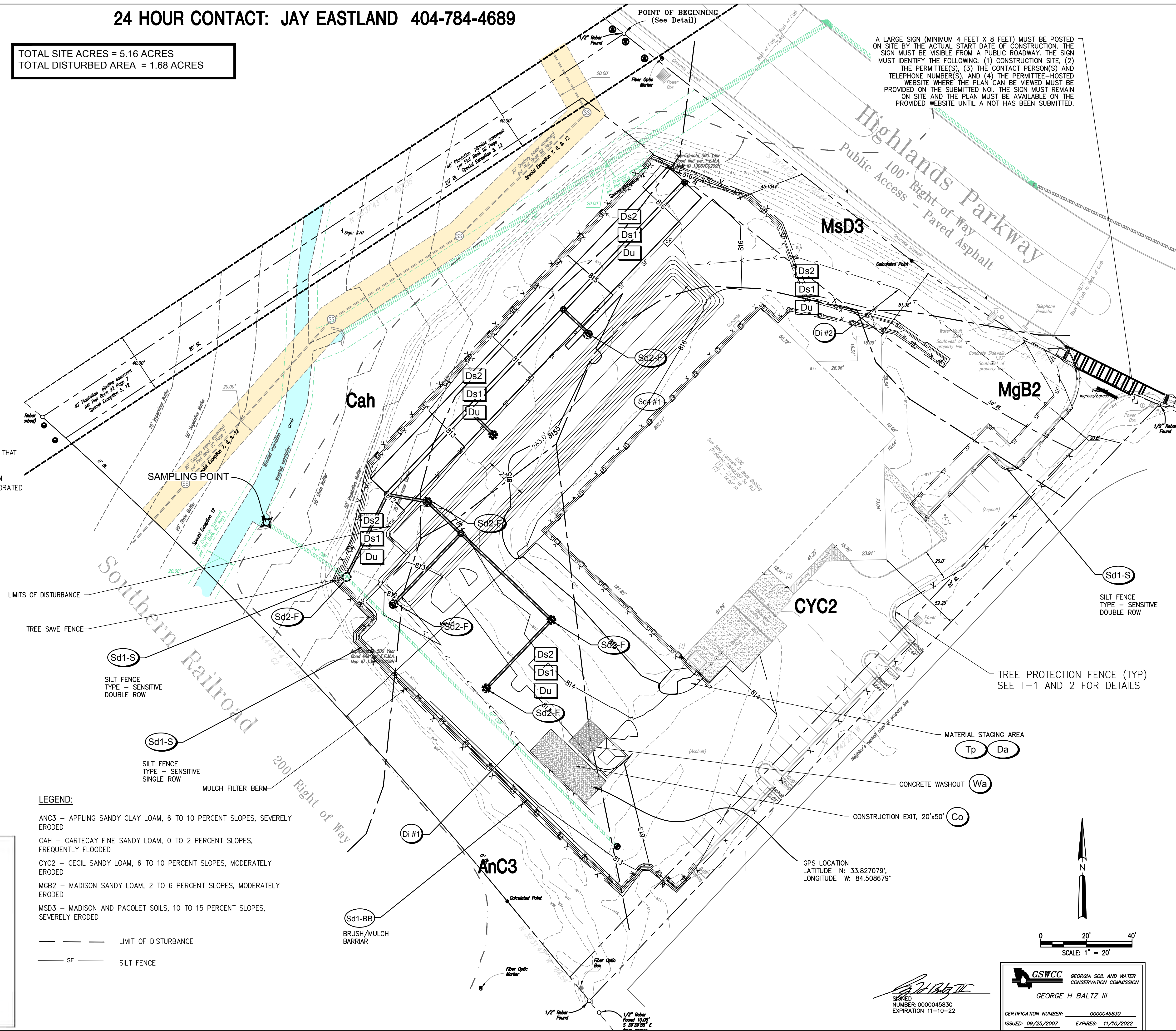
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR FOR EFFECTIVE EROSION IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT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

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

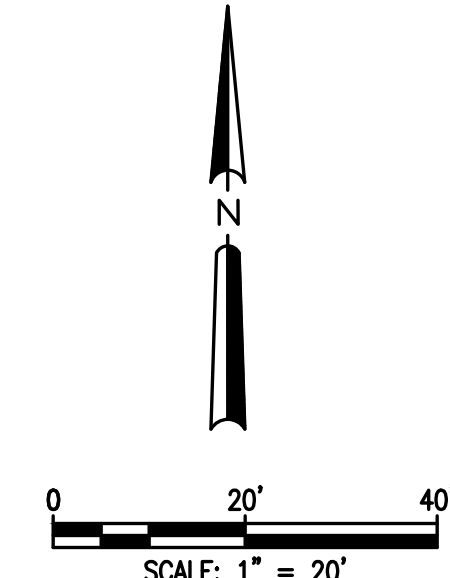
TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the TEMPORARY SEDIMENT TRAP is used, show the following information

- Structure ID # 1
- Drainage area = 1.68 ac
 - Required Sediment Storage = 67cy/ac * drainage area
Required Sediment Storage = 67cy/ac * 1.68 ac
Required sediment storage = 112.56 cy = 3039.12 cf
 - Assume excavation depth (minimum of 1.5 ft.) = 2 ft
 - Assume slope of sides (shall not be steeper than 2:1) = 2:1
 - Determine required surface area
SA_{min} = Required sediment storage / excavation depth
SA_{min} = 3039.1 cf / 2 ft = 0.4
SA_{min} = 3798.9 sf
 - Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: RECT
Dimensions L = 275 ft W = 21 ft diameter = N/A ft



- LEGEND:**
- ANC3 - APPLING SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, SEVERELY ERODED
 - CAH - CARTECAY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED
 - CYC2 - CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED
 - MGB2 - MADISON SANDY LOAM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED
 - MSD3 - MADISON AND PACOLET SOILS, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED
 - LIMIT OF DISTURBANCE
 - SF- SILT FENCE



GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
 SIGNED: *George H. Baltz III*
 NUMBER: 000045830
 EXPIRATION: 11-10-22
 CERTIFICATION NUMBER: 000045830
 ISSUED: 09/25/2007 EXPIRES: 11/10/2022

Prepared By:
CRESCENT VIEW ENGINEERING, LLC.
211 Fraser Street
Marietta, GA 30060
678-324-8410
www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082

ES&PC - INTERMEDIATE

DATE	REVISIONS
2-21-22	AS SHOWN
03/23/2022	COUNTY COMMENTS
04/13/2022	FIRE COMMENTS
CHECKED: GHB	07/18/2022 COUNTY COMMENTS



CONSTRUCTION PLANS FOR:
4500 HIGHLAND PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-4.1

ES&PC NOTES:

1. THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
4. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
5. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E.: CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
6. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
7. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 14 DAYS.
8. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
9. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS.
10. PERSON RESPONSIBLE FOR EROSION CONTROL MEASURES IS: 24 HOUR EMERGENCY CONTACT: SHAWN RAINY 404-422-3412.
11. CUT AND FILL SLOPES NOT TO EXCEED 2H:1V.
12. SEDIMENTATION & EROSION CONTROL MEASURES TO BE INSPECTED DAILY.
13. NO WETLANDS EXIST ON OR WITHIN 200 FEET OF THE PROJECT SITE.
14. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNERS OF THE STORMWATER MANAGEMENT FACILITY TO KEEP THE ACCESS DRIVE FREE OF OBSTRUCTIONS AND TO MAINTAIN THE FACILITY FREE OF OBSTRUCTIONS, SILT AND DEBRIS, AND OPERATIONAL.
15. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
16. DEVELOPER IS TO CLEAN OUT ACCUMULATED SILT IN DETENTION POND AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
17. ACCESS EASEMENT TO BE CLEARED AND GRUBBED.

TOTAL SITE ACRES = 5.16 ACRES
TOTAL DISTURBED AREA = 1.68 ACRES

A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A PUBLIC ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE AVAILABLE ON THE PROVIDED WEBSITE UNTIL A NOT HAS BEEN SUBMITTED.

STATE WATERS STATEMENT:

THERE ARE NO WATERS OF THE STATE THAT EXIST ONSITE. THERE ARE STATE WATERS THAT EXIST WITHIN 200 FEET OF THE SITE.

THIS SITE IS LOCATED WITHIN A ZONE [A, AE, SHADED ZONE X] AS DEFINED BY FIRM PANEL NUMBER 13067C0209J DATED 10/05/2018, FOR COBB COUNTY AND INCORPORATED AREAS.

PHASE 3 - FINAL DESCRIPTION:

BUILDING, PAVEMENT, UTILITY WORK IS COMPLETE. ALL PROPOSED VEGETATED AREAS ARE 100% AND STABILIZED WITH PERMANENT VEGETATION. ALL BMPs ARE INSTALLED INCLUDING, INLET SEDIMENT TRAPS, AND SILT FENCE ARE MAINTAINED.

WHEN 100% STABILIZATION IS ACHIEVED, INLET SEDIOMENT TRAPS, SILT FENCE AND COMPOSITE FILTER SOCKS ARE REMOVED.

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

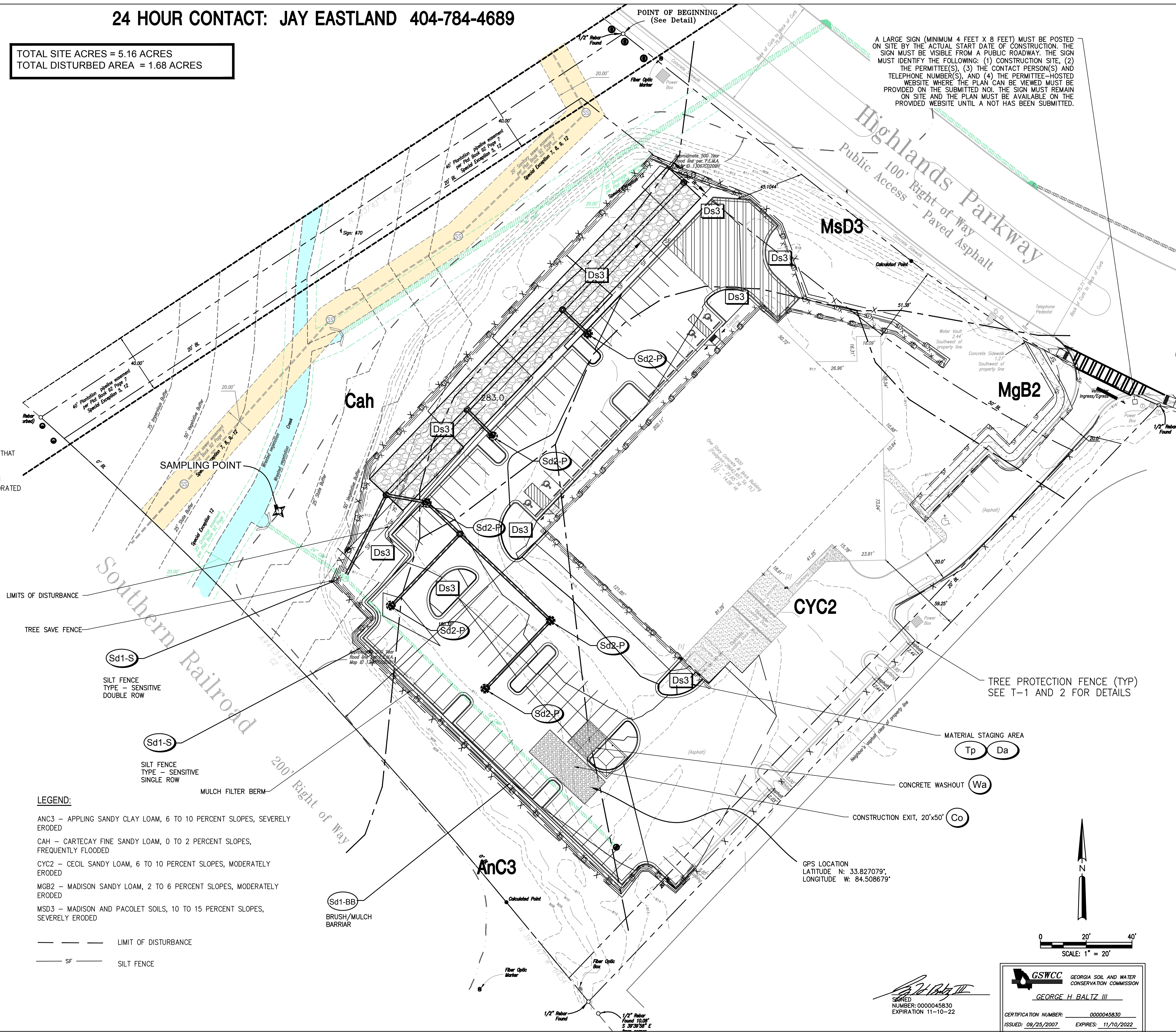
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR FOR EFFECTIVE EROSION IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT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

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

LEGEND:

- ANC3 - APPLING SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, SEVERELY ERODED
- CAH - CARTECAY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED
- CYC2 - CECIL SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED
- MGB2 - MADISON SANDY LOAM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED
- MSD3 - MADISON AND PACOLET SOILS, 10 TO 15 PERCENT SLOPES, SEVERELY ERODED

- LIMIT OF DISTURBANCE
- SF --- SILT FENCE

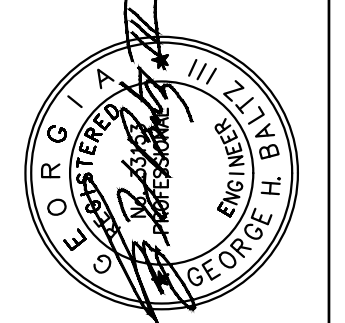


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ES&PC - FINAL

DATE	SCALE	AS SHOWN	REVISIONS
2-21-22	PG	03/23/2022	COUNTY COMMENTS
		04/13/2022	FIRE COMMENTS
		07/18/2022	COUNTY COMMENTS



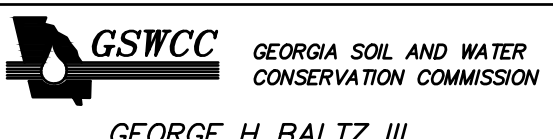
CONSTRUCTION PLANS FOR:
4500 HIGHLAND
PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-4.2

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
SIGNED: GEORGE H. BALTZ III
NUMBER: 000045830
EXPIRATION: 11-10-22
CERTIFICATION NUMBER: 000045830
ISSUED: 09/25/2007 EXPIRES: 11/10/2022

ITEM #1
THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 2022 IS SUBMITTED TO THE LIA WITH THESE PLANS FOR REVIEW. THESE PLANS ARE IN ACCORDANCE WITH GENERAL PERMIT GAR 100001 STAND ALONE PROJECT. SEE C-4.8 FOR CHECKLIST

ITEM #2

GEORGE H. BALTZ III
CERTIFICATION NUMBER: 0000045830
ISSUED: 09/25/2007 EXPIRES: 11/10/2022

ITEM #3
LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES FOR EACH INDIVIDUAL PERMITTEE (I.E. PRIMARY, SECONDARY OR TERTIARY) AT ANY ONE TIME AND NO MORE THAN 50 CONTIGUOUS ACRES AT ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE. IF EPD APPROVES THE REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME, THE PLAN MUST INCLUDE AT LEAST 4 OF THE BMPs LISTED IN APPENDIX 1 OF THIS CHECKLIST (DISTURBED ACREAGE = 1.30 AC).

ITEM #4
THE NAME AND PHONE NUMBER OF THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS IS: JAY EASTLAND 404-784-4689 JAY.EASTLAND@GOSOPREPAIR.COM

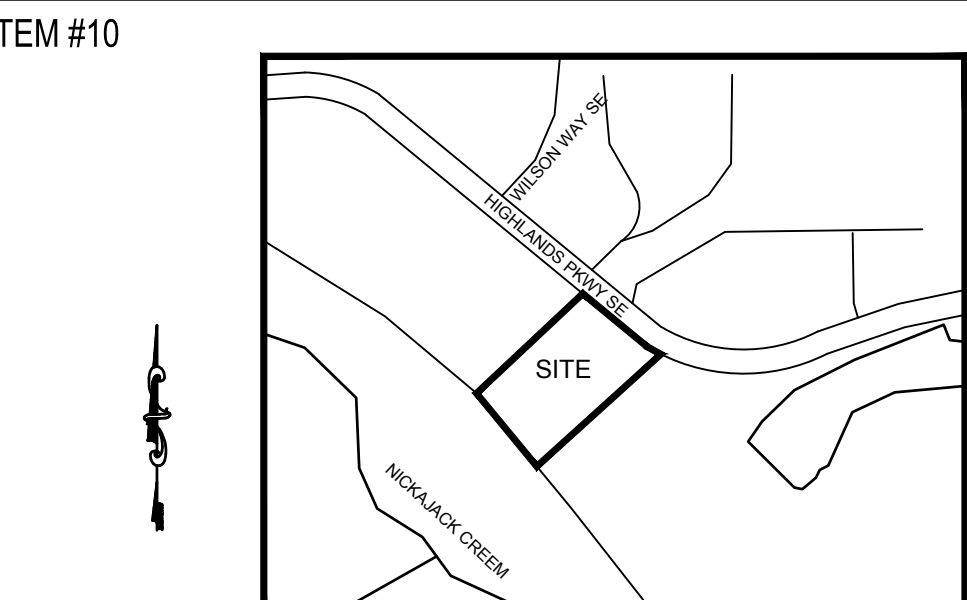
ITEM #5
THE NAME, ADDRESS AND PHONE NUMBER OF PRIMARY PERMITTEE IS:
JAY EASTLAND 404-784-4689
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082
JAY.EASTLAND@GOSOPREPAIR.COM

ITEM #6
TOTAL SITE ACRES = 5.16 ACRES
TOTAL DISTURBED ACREAGE: 1.68 ACRES

ITEM #7
GPS LOCATION OF THE CONSTRUCTION EXIT: LATITUDE N: 33.827079; LONGITUDE W: 84.506879
- THIS INFORMATION IS ALSO LOCATED ON THE SHEET C-4

ITEM #8
INITIAL DATE AND REVISION DATES OF THE EACH SHEET.

ITEM #9
THE PROPOSED PLANS CALL FOR THE CONSTRUCTION OF PARKING LOT AND UNDERGROUND UTILITIES. ALL PHASED EROSION CONTROL BMPs ARE TO REMAIN IN PLACE UNTIL THE SITE IS 100% STABILIZED.

ITEM #10

CONSTRUCTION MEASURES TO REDUCE POLLUTANTS DURING CONSTRUCTION
MEASURES EXPECTED ON-SITE DURING CONSTRUCTION:
1. CONSTRUCTION ENTRANCES
2. SILT FENCING
3. TEMPORARY GRASSING
4. TEMPORARY SEDIMENT TRAP

CONSTRUCTION MEASURES TO CONTROL POLLUTANTS AFTER CONSTRUCTION
MEASURES EXPECTED ON-SITE DURING CONSTRUCTION:
1. PERMANENT GRASSING

ITEM #27
PRODUCT SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINAGE, AND STORM WATER DRAINAGE WATERS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINER LINED TO PREVENT ANIMALS FROM DISCHARGING OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SEPARATE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS, FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.
FERTILIZERS/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE RECOMMENDED RATES. APPLICATION OF FERTILIZERS AND HERBICIDES SHALL BE IN ACCORDANCE WITH THE STATE OF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BARRIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

ITEM #11
PROJECT RECEIVING WATERS - NICKAJACK CREEK

ITEM #12 & 13
"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."
"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

ITEM #14
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION

ITEM #15
NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTLED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

ITEM #16
THERE ARE STREAM BUFFERS ON THE SITE

ITEM #17
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.

ITEM #18
WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ITEM #19
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.

ITEM #20
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ITEM #21
ANY UNDISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ITEM #22
THIS PROJECT IS LESS THAN 1 LINEAR MILES FROM NICKAJACK CREEK. NICKAJACK CREEK (HEADWATERS TO THE CHATTAHOOCHEE RIVER) IN COBB COUNTY HAS BEEN IDENTIFIED AS AN IMPAIRED STREAM SEGMENT NOT SUPPORTING DESIGNATED USES IN THE GEORGIA 2020 305(B)(3)(3)(3) LIST. ACRICES (FWMA) - SPECIFICALLY, FEZAL COLIFORM AND BIO F. THE TMDL IMPLEMENTATION PLAN FOR SEDIMENT (BIOTA IMPACTS) FOR NICKAJACK CREEK IN COBB COUNTY WAS FINALIZED IN JANUARY 2008. COMPLIANCE WITH THE STATE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY WILL ENSURE THAT POLLUTANT LOADINGS FROM THE CONSTRUCTION SITE WILL BE AT OR BELOW APPLICABLE TMDL TARGETS FOR THE POLLUTANTS OF CONCERN.

ITEM #23
NICKAJACK CREEK IS AN IMPAIRED STREAM

ITEM #24
SEE SHEET C-4 FOR BMPs FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ITEM #25
REMEDATION OF ALL PETROLEUM SPILLS AND LEAKS - CLEANUP AND CONTROL PRACTICES
LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES MADE AVAILABLE TO SITE PERSONNEL.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. TYPICAL EQUIPMENT AND MATERIALS FOR CLEANUP INCLUDE: BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, RESPIRATORS, CAT LITTER, SAND, SAWMIST AND PLASTIC AND METAL TRASH CONTAINERS FOR THIS PURPOSE.

SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WE BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 800-424-8802.

FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 800-424-8802.

FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

ITEM #26
CONSTRUCTION MEASURES TO REDUCE POLLUTANTS DURING CONSTRUCTION
MEASURES EXPECTED ON-SITE DURING CONSTRUCTION:
1. CONSTRUCTION ENTRANCES
2. SILT FENCING
3. TEMPORARY GRASSING
4. TEMPORARY SEDIMENT TRAP

CONSTRUCTION MEASURES TO CONTROL POLLUTANTS AFTER CONSTRUCTION
MEASURES EXPECTED ON-SITE DURING CONSTRUCTION:
1. PERMANENT GRASSING

ITEM #27
PRODUCT SPECIFIC PRACTICES
PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINAGE, AND STORM WATER DRAINAGE WATERS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINER LINED TO PREVENT ANIMALS FROM DISCHARGING OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SEPARATE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
PAINTS, FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.
FERTILIZERS/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE RECOMMENDED RATES. APPLICATION OF FERTILIZERS AND HERBICIDES SHALL BE IN ACCORDANCE WITH THE STATE OF GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BARRIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

ITEM #29
CONSTRUCTION Activity Schedule
INSTALLATION OF PERMETER EROSION CONTROL & TREE PROTECTION
CONSTRUCTION OF TEMPORARY SEDIMENT TRAP
CLEARING AND GRUBBING
GRADING AND CONSTRUCTION OPERATIONS
TEMPORARY GRASSING
MAINTENANCE OF BMPs
TEMPORARY GRASSING @ 14 DAY INTERVALS
PERMANENT GRASSING @ 30 DAY INTERVALS
FINAL LANDSCAPING, GRASSING, ETC
BMP REMOVAL

ITEM #30
A. PRIMARY PERMITTEE.
(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 USED BY THE PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL SHALL BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST TWICE 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 THAT ARE BEING OPERATED CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO 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). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(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. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.B.(5), WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.

ITEM #30 CONTINUED
(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.B.(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 OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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 AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT 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.
B. SECONDARY PERMITTEE.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE SECONDARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE SECONDARY 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

(2). CERTIFIED PERSONNEL (PROVIDED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES) SHALL INSPECT THE FOLLOWING EACH DAY ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT THE CONSTRUCTION SITE: (A) AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION; (B) AREAS USED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION; AND (C) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE UTILITY COMPANIES AND UTILITY CONTRACTORS' CONSTRUCTION ACTIVITIES 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). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS WHEN THEY ARE SECONDARY PERMITTEES PERFORMING SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN 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 SECONDARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE SECONDARY 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 SECONDARY 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 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.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES 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). 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.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST, THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPs WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THE SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.B.(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 HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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 STATEMENT 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(7). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL SHALL BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST THE FOLLOWING ONCE EVERY SEVEN 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 TERTIARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE TERTIARY 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 TERTIARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES 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). 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.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(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 THE INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(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 HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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 STATEMENT 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(7). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL SHALL BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST THE FOLLOWING ONCE EVERY SEVEN 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 TERTIARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE TERTIARY 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 TERTIARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES 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). 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.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(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 THE INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E. INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.(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 HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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 STATEMENT 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(7). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(2). MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL SHALL BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST THE FOLLOWING ONCE EVERY SEVEN 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 TERTIARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE TERTIARY 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 TERTIARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INS

APPLICATION OF MULCH

DRY STRAW OR HAY APPLIED TO DEPTH OF 2 - 4 INCHES
WOOD CHIPS, BARK, SAWDUST APPLIED TO DEPTH OF 2 - 3 INCHES

Ds1

SPECIES	BROADCAST RATES 2/2-PLS. 3/ PER ACRE SO. FL.	RESOURCE AREA 4/	PLANTING DATES BY RESOURCE AREAS												REMARKS	
			J	F	M	A	M	J	J	A	S	O	N	D		
BARLEY (HORDEUM VULGARE)	3 bu. (144 lb.) 1/2 bu. (24 lb.)	M-L P C														14,000 SEED PER POUND. QUICK WINTERHARDY, USE ONLY ON PRODUCTIVE SOILS.
LESPEDeza ANNUAL (LESPEDeza STRATA)	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	M-L P C														200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL.
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)	4 lbs. 0.1 lb. 2 lbs. 0.05 lb.	M-L P C														1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA
MILLET, BROWNTOP (Panicum fasciculatum)	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	M-L P C														137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEED AT HIGH RATES.

DUST CONTROL ON DISTURBED AREAS

SITE MUST BE CONTROLLED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION AREAS. CONTRACTOR SHALL UTILIZE ADDITIONAL MEASURES TO CONTROL DUST AS REQUIRED - TEMPORARY METHODS: Ds1-MULCHING, TD-TACKLERS AND BINDERS, Ds2-TEMPORARY SEEDING, SPRAY ON ADHESIVES, IRRIGATION PERMANENT METHODS: Ds3-PERMANENT VEGETATION, Ds4-SODDING

Du

SPECIES	BROADCAST RATES 2/2-PLS. 3/ PER ACRE SO. FL.	RESOURCE AREA 4/	PLANTING DATES BY RESOURCE AREAS												REMARKS	
			J	F	M	A	M	J	J	A	S	O	N	D		
BAMA/PENSACOLA (Paspalum notatum)	60 lbs. 1.4 lb. 30 lbs. 0.7 lb.	M-L P C														166,000 SEED PER POUND. LOW GROWING SOD FORMING. SLOW TO ESTABLISH. PLANT W/ A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES & LAWNS. MID-COASTAL, COMMON W/ SERICEA LESPEDEZA OR WEEDING LOVEGRASS.
BAMA/WILMINGTON (Paspalum notatum)	60 lbs. 1.4 lb. 30 lbs. 0.7 lb.	M-L P C														SAME AS ABOVE.
BERMUDA, COMMON (Cynodon dactylon)	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	M-L P C														1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING & SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (Cynodon dactylon)	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	M-L P C														PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.

TEMPORARY GRASSING

Ds2

NOT TO SCALE

PERMANENT GRASSING

Ds3

NOT TO SCALE

FERTILIZER REQUIREMENTS

TOP OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	TOP DRESSINGS RATE
1. COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	10-100 lbs./ac. 1/2-30
2. COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/30
3. GROUND COVERS	FIRST MAINTENANCE	10-10-10	1300 lbs./ac. 3/1100 lbs./ac.	
4. PINE SEEDING	FIRST MAINTENANCE	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	
5. SHRUB MAINTENANCE	FIRST MAINTENANCE	0-10-10	700 lbs./ac. 4/700 lbs./ac.	
6. TEMPORARY COVER CROPS SEEDING ALONE	FIRST MAINTENANCE	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/50-100 lbs./ac. 2/30 lbs./ac.
8. WARM SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	50 lbs./ac. 6/

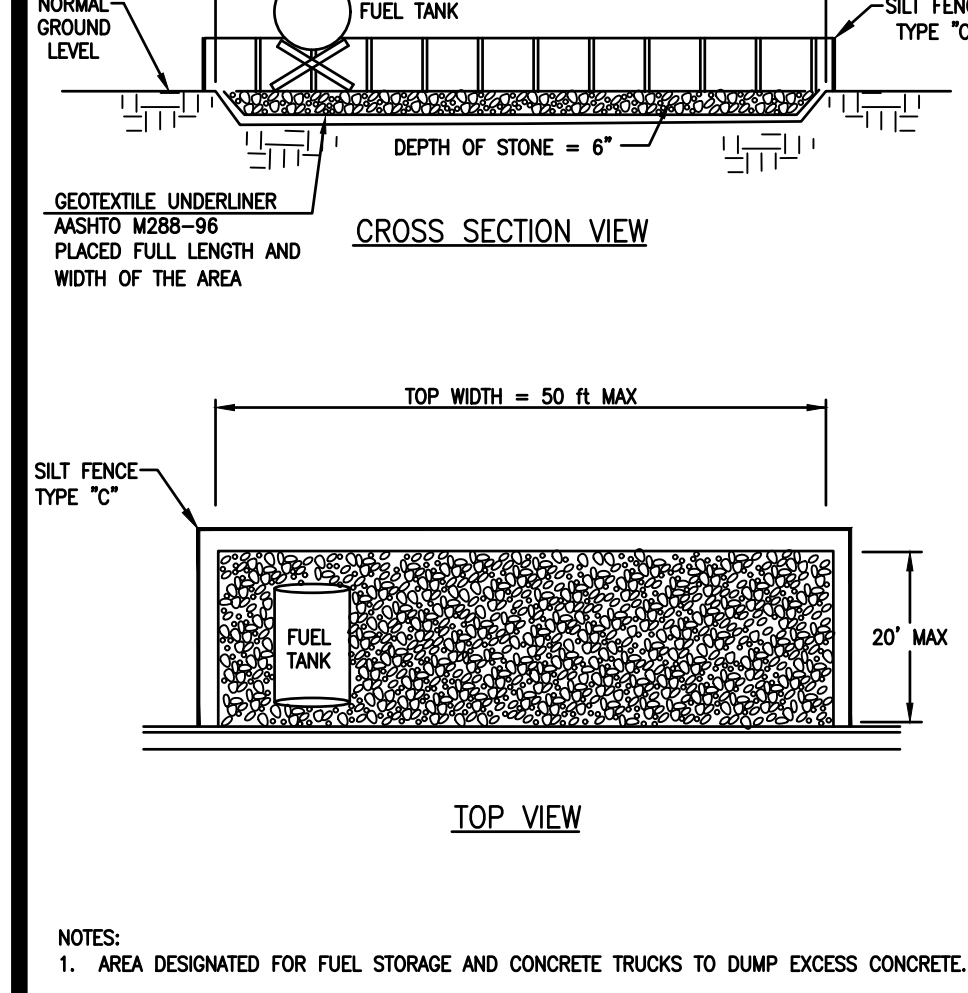
- 1) APPLY IN SPRING FOLLOWING SEEDING.
- 2) APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- 3) APPLY IN 3 SPLIT APPLICATIONS.
- 4) APPLY WHEN PLANTS ARE PRUNED.
- 5) APPLY TO GRASS SPECIES ONLY.
- 6) APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

LIME APPLICATION REQUIREMENT - 2 TONS/ACRE
80% PASS THROUGH 10 - MESH SIEVE
50% PASS THROUGH 30 - MESH SIEVE
25% PASS THROUGH 25 - MESH SIEVE

FERTILIZERS

NOT TO SCALE

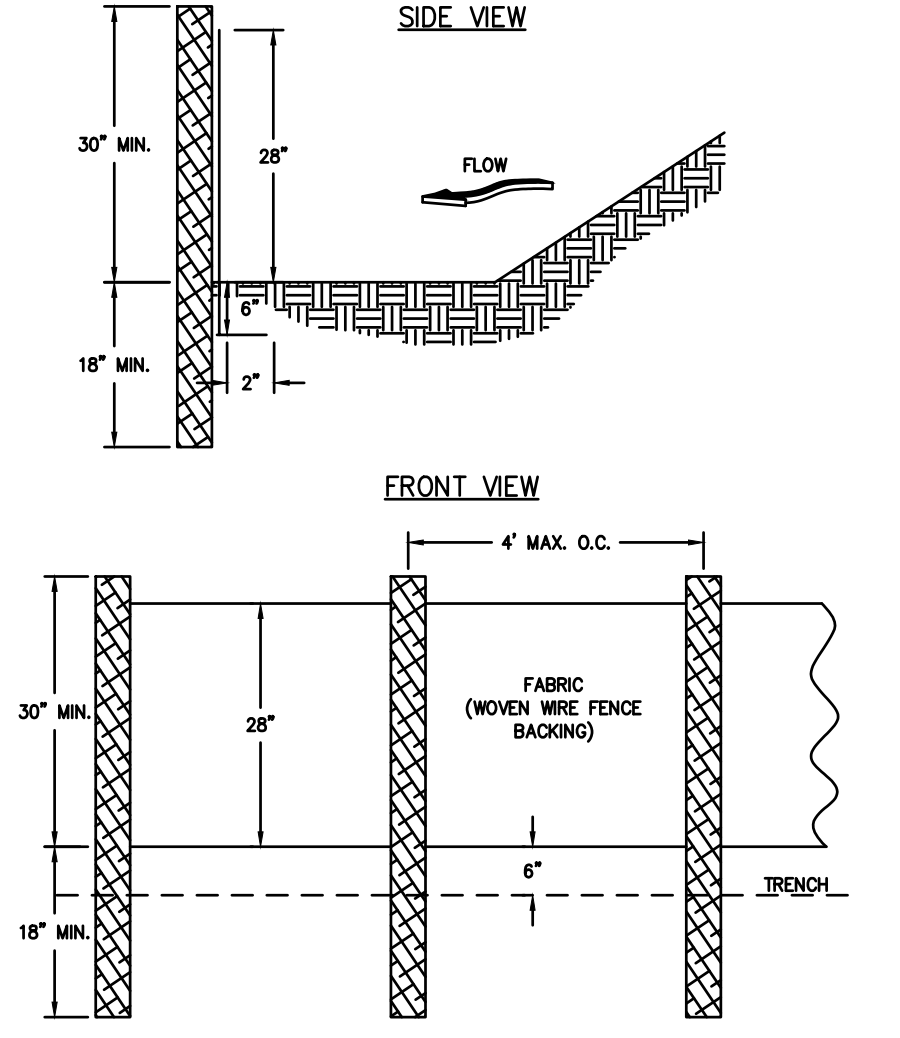
FUEL STORAGE



FUEL STORAGE

NOT TO SCALE

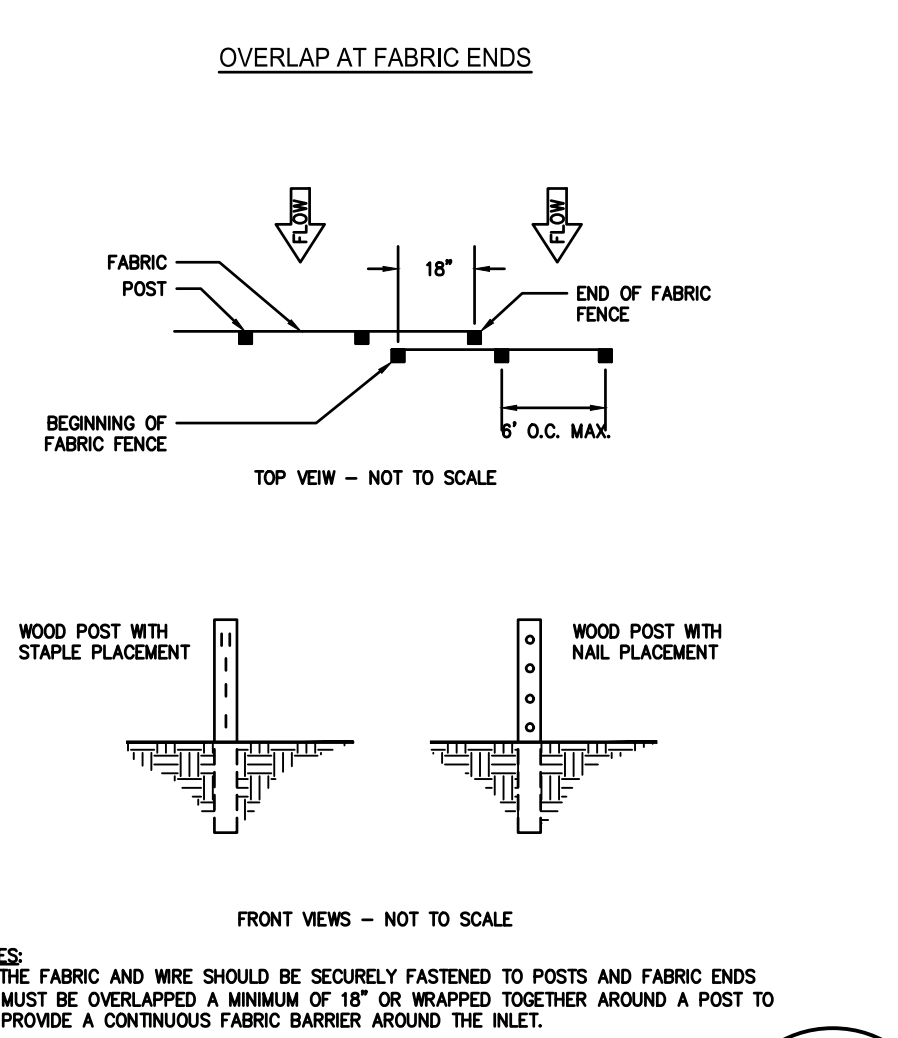
SILT FENCE - TYPE SENSITIVE



SILT FENCE - TYPE SENSITIVE

NOT TO SCALE

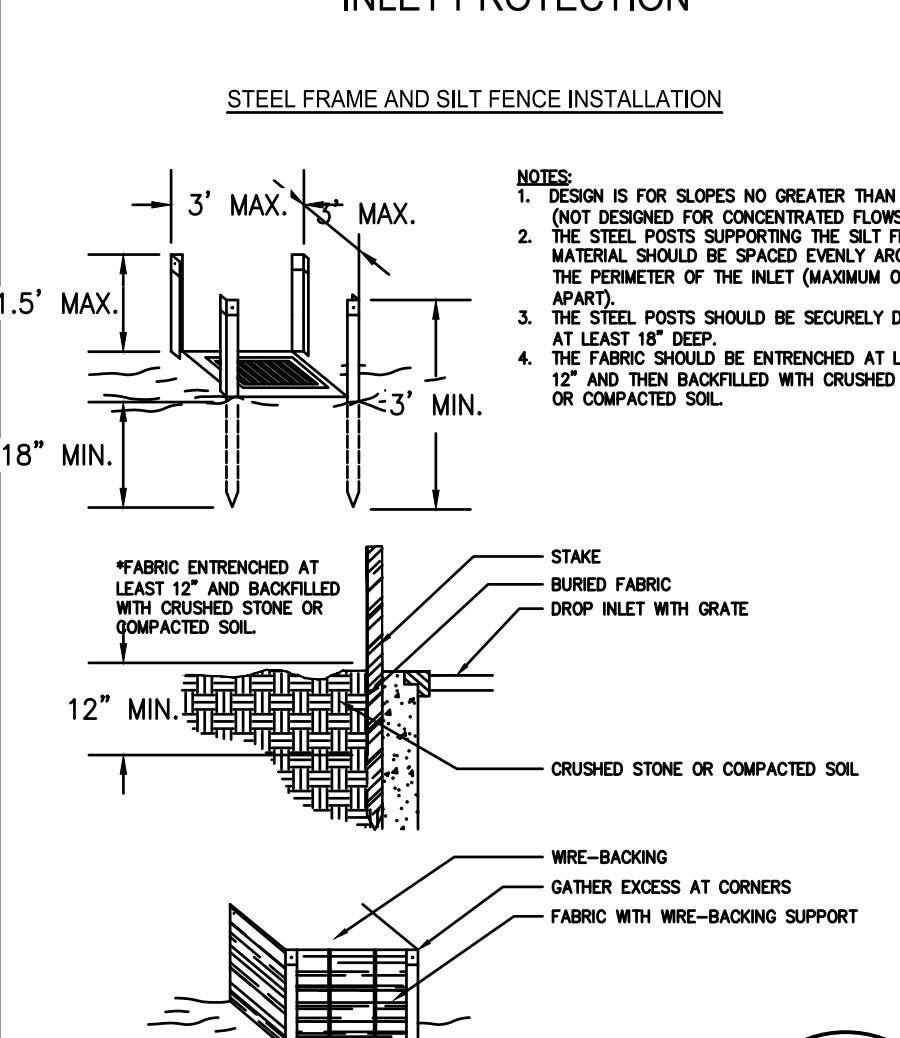
FASTENERS FOR SILT FENCES



FASTENERS FOR SILT FENCES

NOT TO SCALE

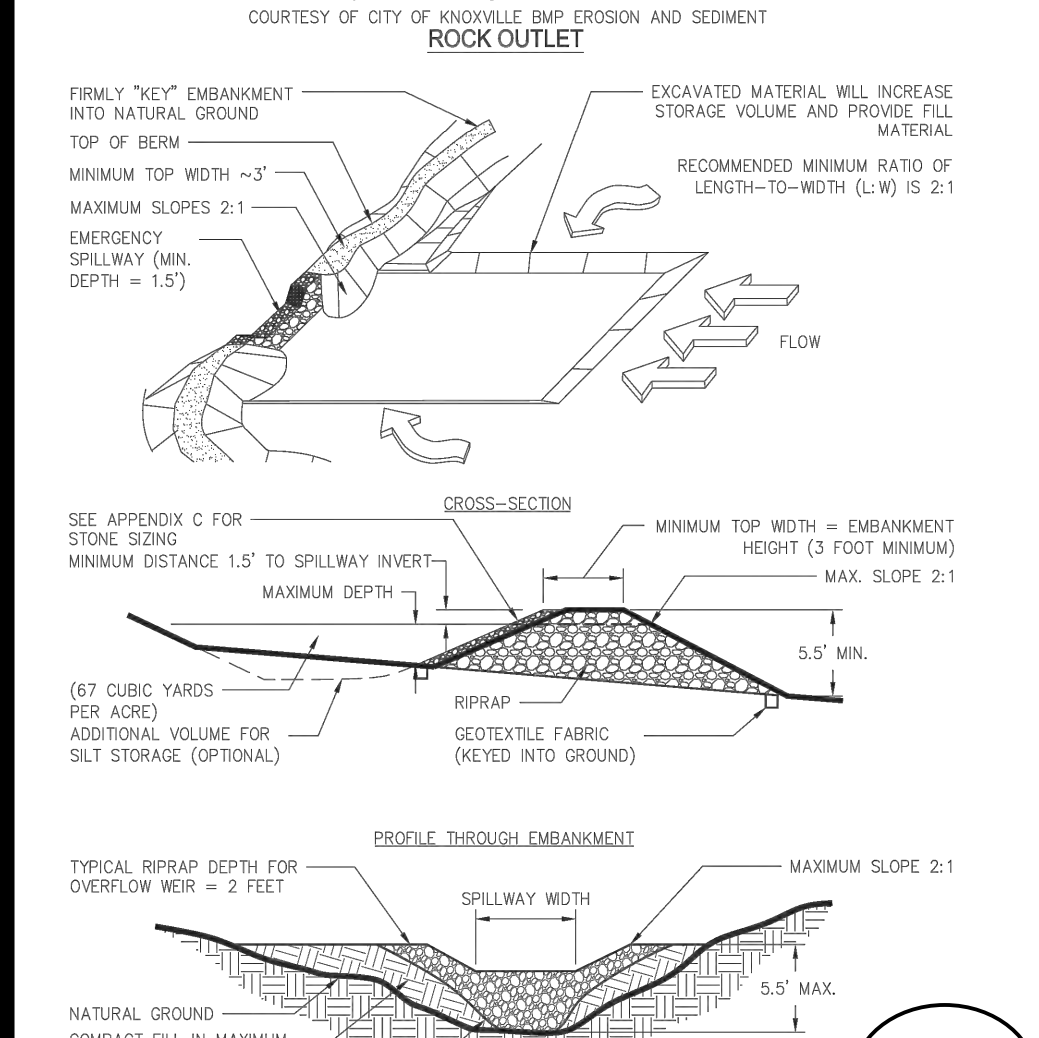
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

NOT TO SCALE

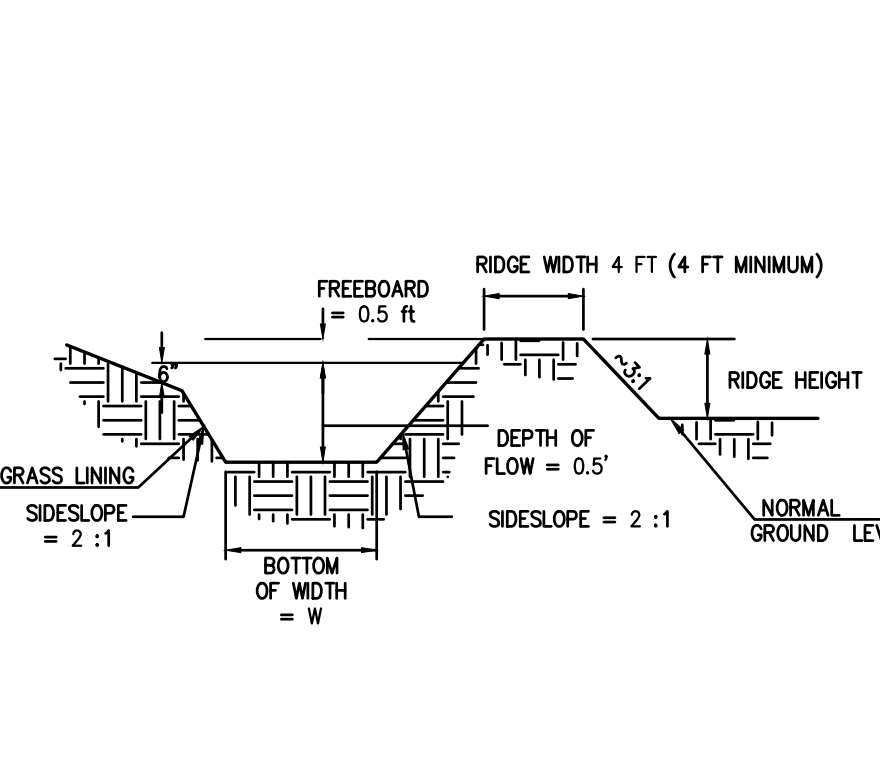
TEMPORARY SEDIMENT TRAP



TEMPORARY SEDIMENT TRAP

NOT TO SCALE

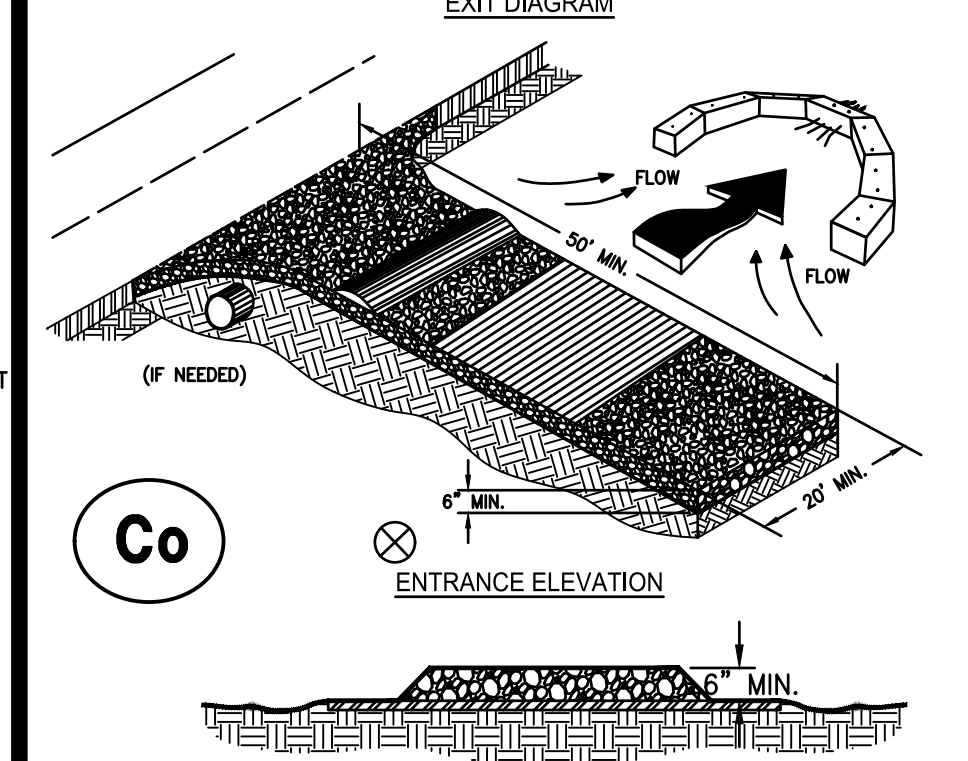
CRUSHED STONE CONSTRUCTION EXIT



CRUSHED STONE CONSTRUCTION EXIT

NOT TO SCALE

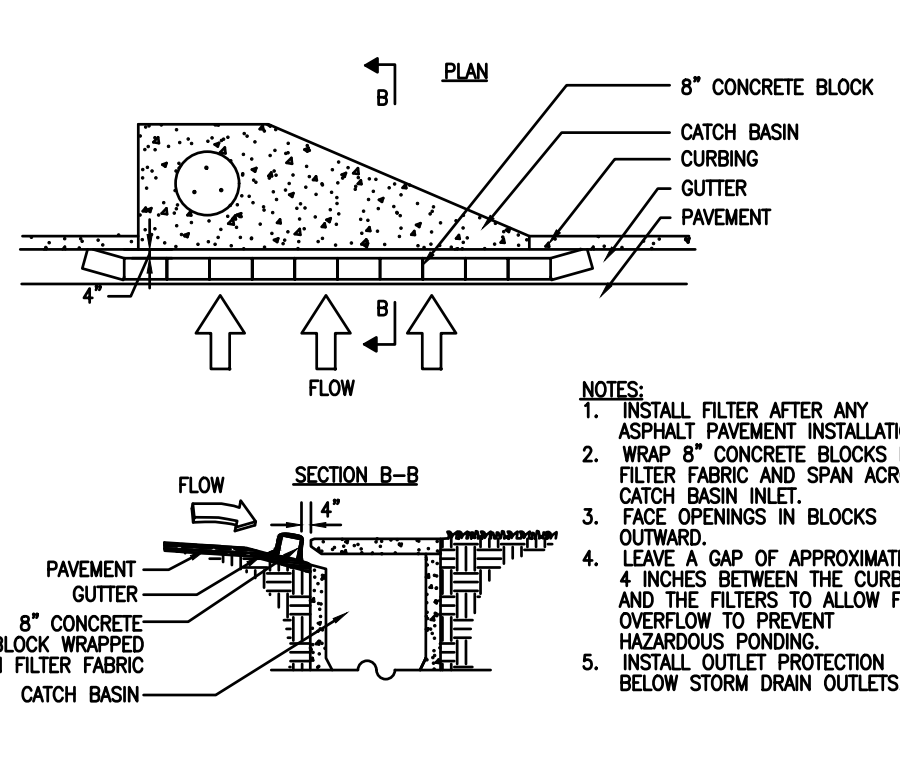
CURB INLET FILTER 'PIGS IN BLANKET'



CURB INLET FILTER 'PIGS IN BLANKET'

NOT TO SCALE

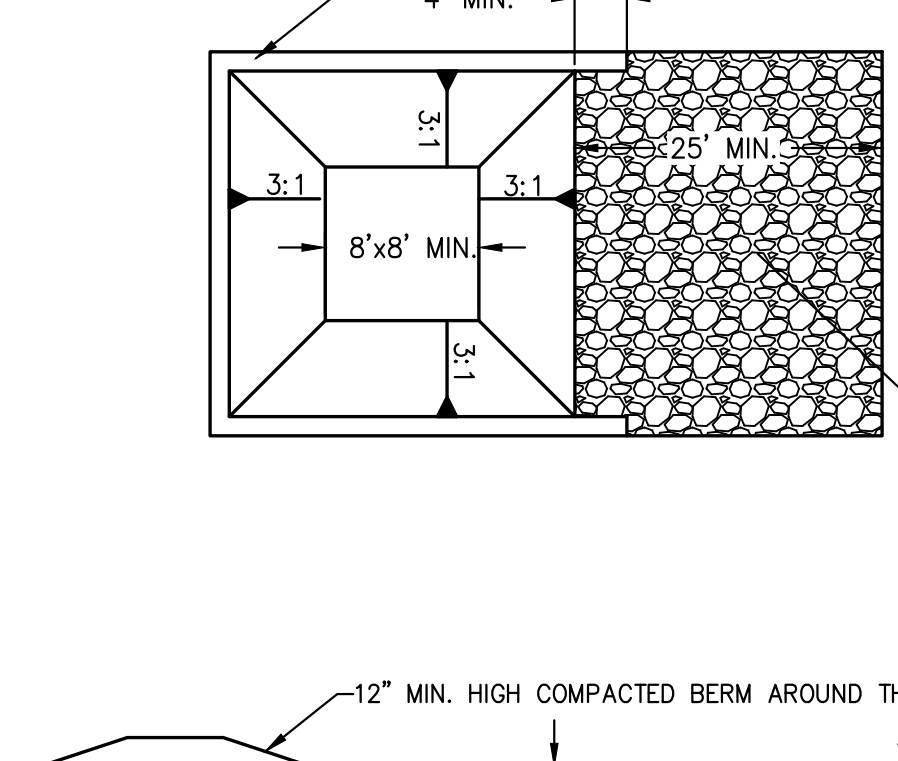
COMPACTED BERM AROUND THE PERIMETER



COMPACTED BERM AROUND THE PERIMETER

NOT TO SCALE

SEDIMENT BARRIERS



SEDIMENT BARRIERS

NOT TO SCALE

DIVERSION

NOT TO SCALE

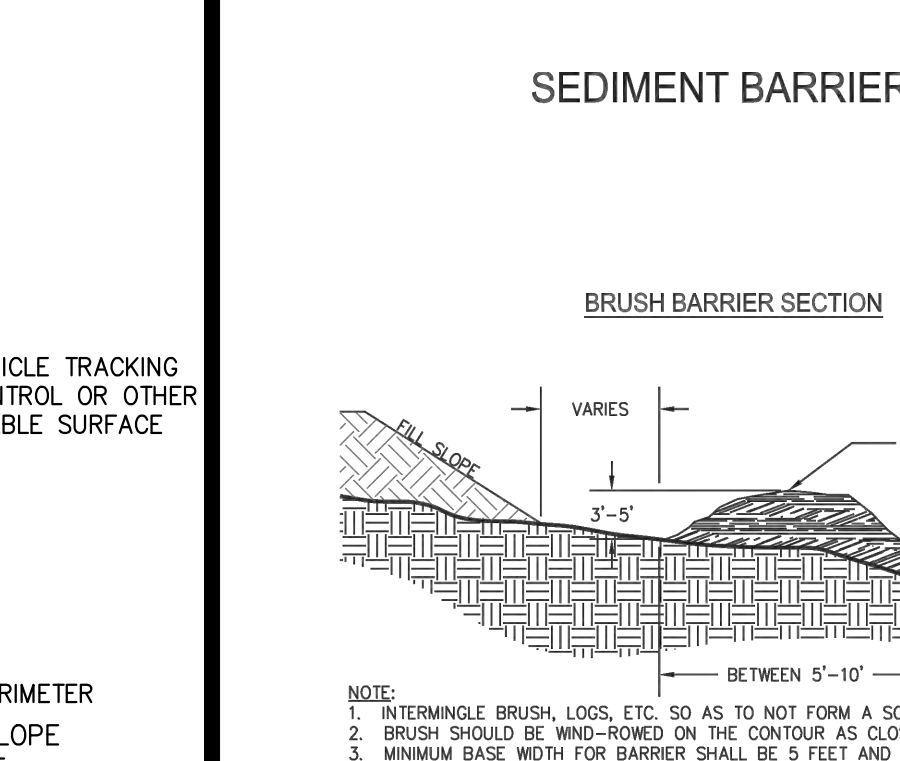
DI

CONCRETE WASHOUT AREA

NOT TO SCALE

Sd2-P

SEDIMENT BARRIERS



SEDIMENT BARRIERS

NOT TO SCALE

CONCRETE WASHOUT AREA

NOT TO SCALE

Sd1-BB

24 HOUR CONTACT: JAY EASTLAND 404-784-4689

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
GEORGE H. BALTZ III
CERTIFICATION NUMBER: 0000045830
ISSUED: 09/25/2007 EXPIRES: 11/10/2022

Prepared By:
CRESCENT VIEW ENGINEERING, LLC
211 Frazier Street
Marietta, GA 30060
678-324-8410
www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
SMYRNA, GA 30082

ES&PC - DETAILS

Professional Engineer Seal for Jay Eastland, State of Georgia, License No. 11111.

CONSTRUCTION PLANS FOR:
4500 HIGHLAND PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI# 21-468
SHEET NO. **C-4.5**

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

SWCD: _____ Cobb County

Project Name: 4500 Highland Parkway SE Address: 4500 Highland Parkway SE
 City/County: Smyrna, GA 30082 Date on Plans: 2-15-22

Name & email of person filling out checklist: Trey Baltz trey@crecentvieweng.com

Plan	Included	
Page #	Y/N	
C4.3	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. <i>(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)</i>
C4.3	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. <i>(Signature, seal and level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed.)</i>
C4.3	Y	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * <i>(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)</i>
C4.3	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C4.3	Y	5 Provide the name, address, email address, and phone number of primary permittee.
C4.3	Y	6 Note total and disturbed acreages of the project or phase under construction.
C4.3	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C4.3	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C4.3	Y	9 Description of the nature of construction activity and existing site conditions.
C4.3	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C4.3	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
C4.3	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
C4.3	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *
C4.3	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." in accordance with Part IV.A.5 page 25 of the permit. *
C4.3	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of vested 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."
C4.3	Y	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C4.3	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
C4.3	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C4.3	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
C4.3	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C4.3	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
C4.3	Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
C4.3	Y	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C4.3	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
C4.3	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.

C4.3	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *						
C4.3	Y	27 Description of practices to provide cover for building materials and building products on site. *						
C4.3	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *						
C4.3	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).						
C4.3	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *						
C4.3	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *						
C4.3	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *						
C4.3	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *						
C4.4	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *						
C4.4	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *						
C4.4	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *						
C4.4	Y	37 Graphic scale and North arrow.						
C4.4	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:						
		<table border="1"> <thead> <tr> <th>Map Scale</th> <th>Ground Slope</th> <th>Contour Intervals, ft.</th> </tr> </thead> <tbody> <tr> <td>1 inch = 100ft or larger scale</td> <td>Flat 0 - 2% Rolling 2 - 8% Steep 8% +</td> <td>0.5 or 1 1 or 2 2.5 or 10</td> </tr> </tbody> </table>	Map Scale	Ground Slope	Contour Intervals, ft.	1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10
Map Scale	Ground Slope	Contour Intervals, ft.						
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2.5 or 10						
C4.4	Y	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.						
C4.4	Y	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *						
C4.4	Y	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.						
C4.4	Y	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.						
Hydro	Y	43 Delineation and acreage of contributing drainage basins on the project site.						
Hydro	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *						
Hydro	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.						
Hydro	Y	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.						
C4.4	Y	47 Soil series for the project site and their delineation.						
C4.4	Y	48 The limits of disturbance for each phase of construction.						
C4.4	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.						
C4.4	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.						
C4.4	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.						
C4.4	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.						

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

Effective January 1, 2022

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPs FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan	Included	
Page #	Y/N	
		a. During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
C4	Y	d. A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
		e. Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the current NPDES Permits.
C4	Y	f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in Part IV.D.6.d. of the current NPDES Permits.
		g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
		i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
		j. Use "Dirt II" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
C4	Y	l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
		m. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.
		n. Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
		o. Install sod for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
		p. Conduct soil tests to identify and to implement site-specific fertilizer needs.
		q. Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) - (c), secondary permittees, Part IV.D.4.b.(3)(a) - (c), and tertiary permittees Part IV.D.4.c.(3)(a) - (c) *
		r. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
		s. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)
		t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.
		u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part IV.A.5 of the permit. <i>The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.</i>
		v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

Effective January 1, 2022

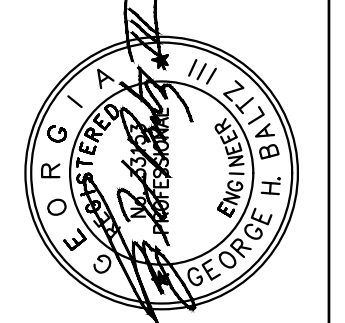
* This requirement is different for infrastructure projects:
 Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) - (c) of the permit.

Prepared By:
**CRESCENT VIEW
 ENGINEERING, LLC.**
 211 Fraiser Street
 Marietta, GA 30060
 678-324-8410
 www.crescentvieweng.com

Prepared For:
4500 HIGHLAND PARKWAY SE
 SMYRNA, GA 30082

ES&PC - CHECKLIST

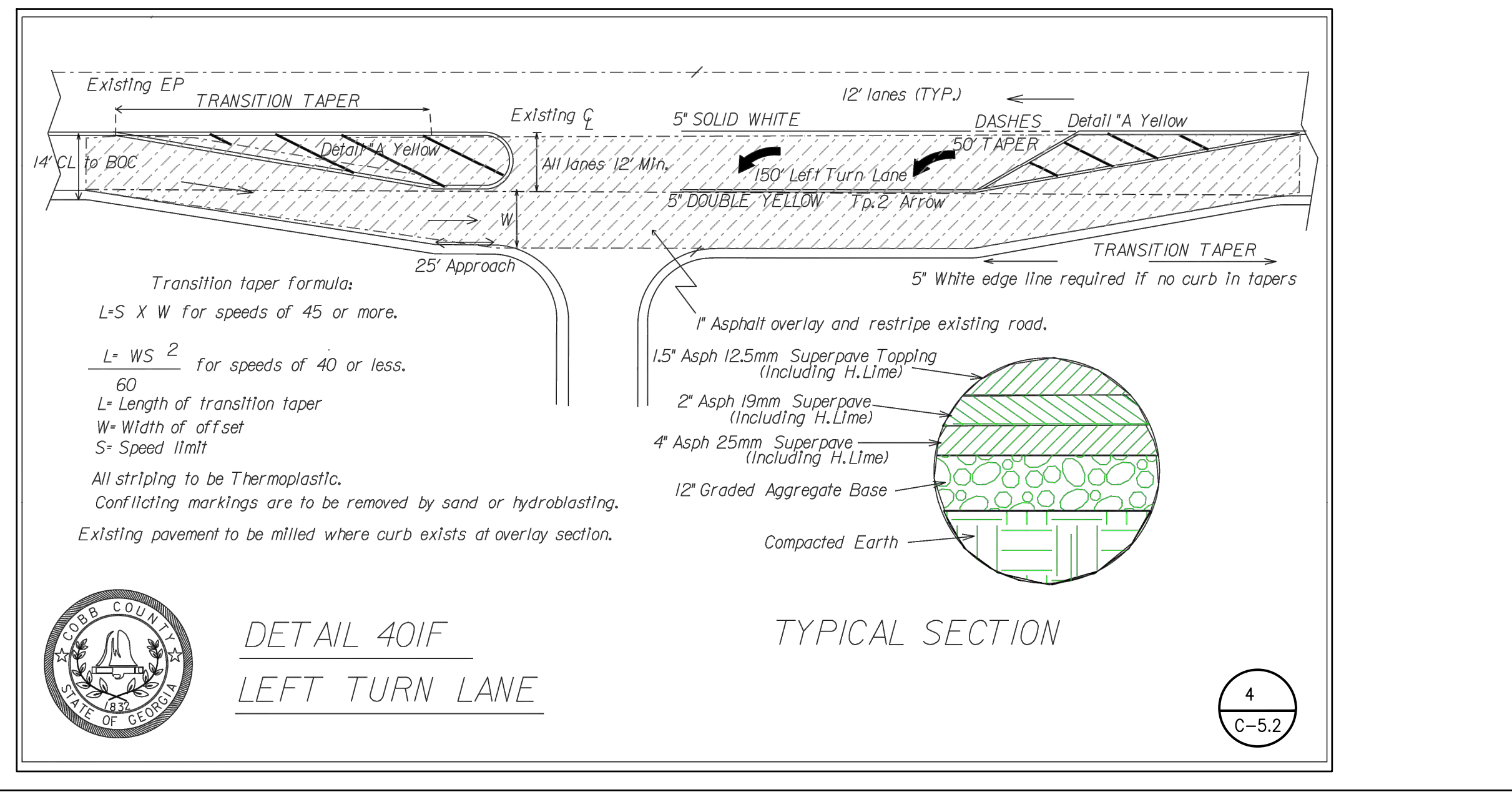
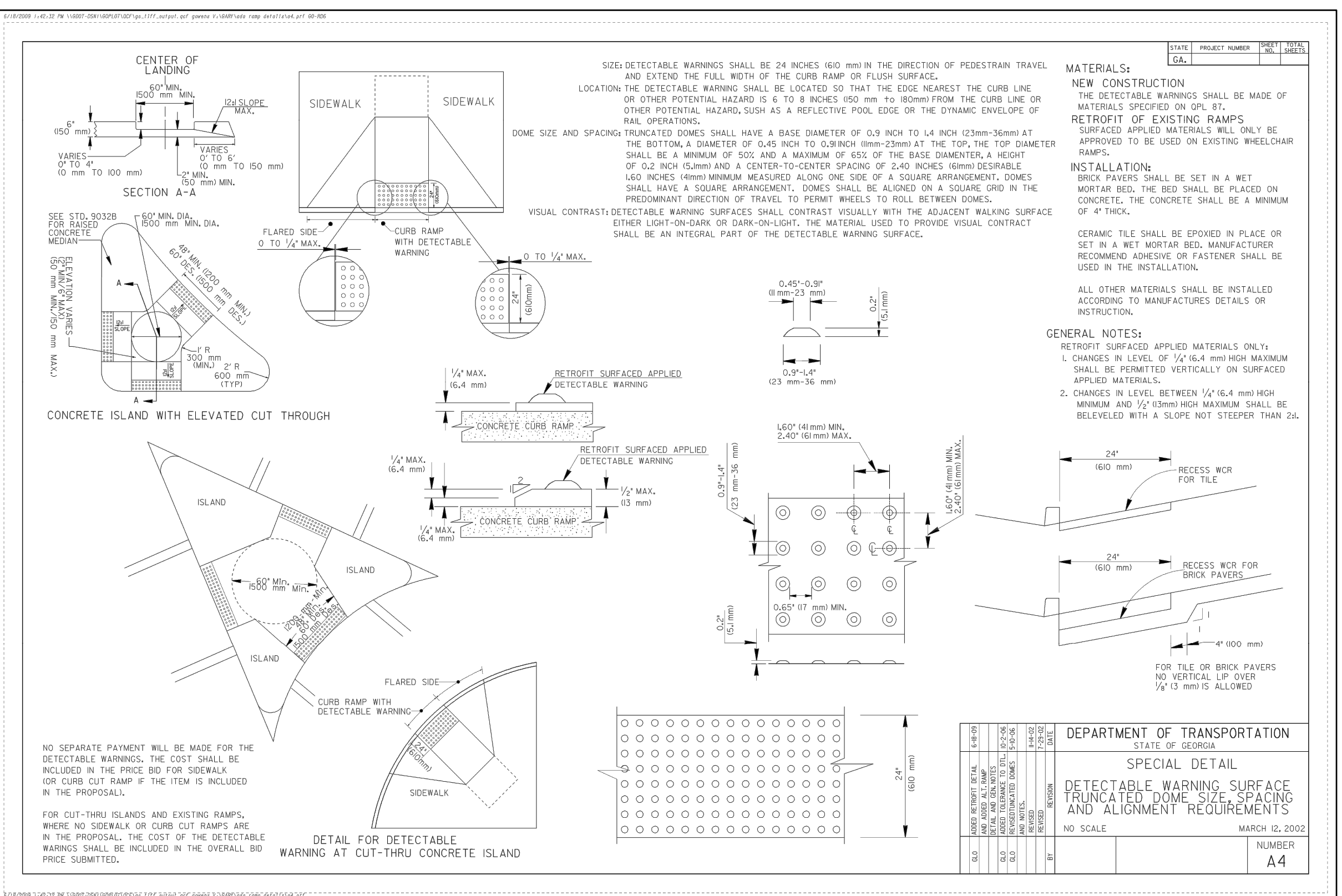
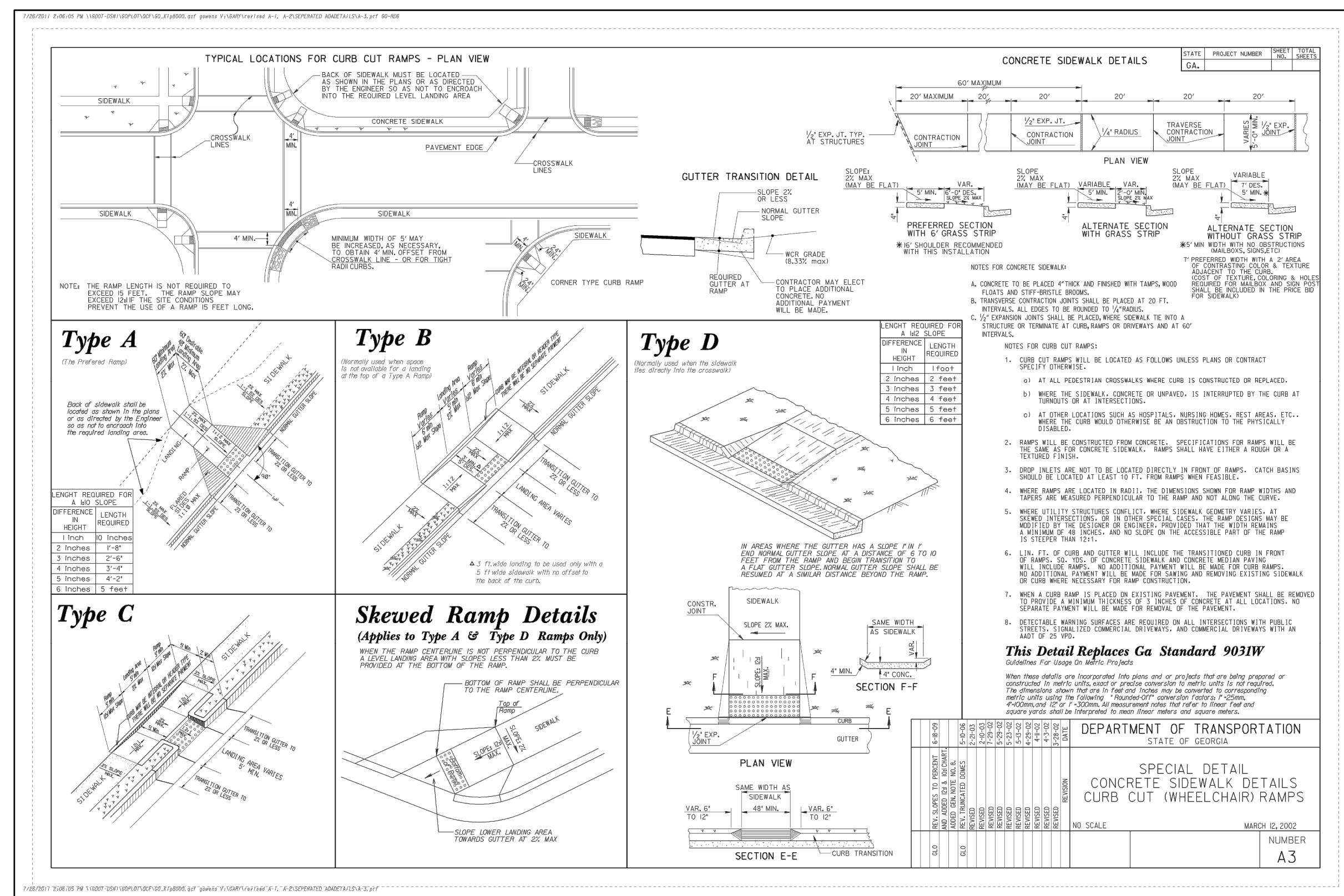
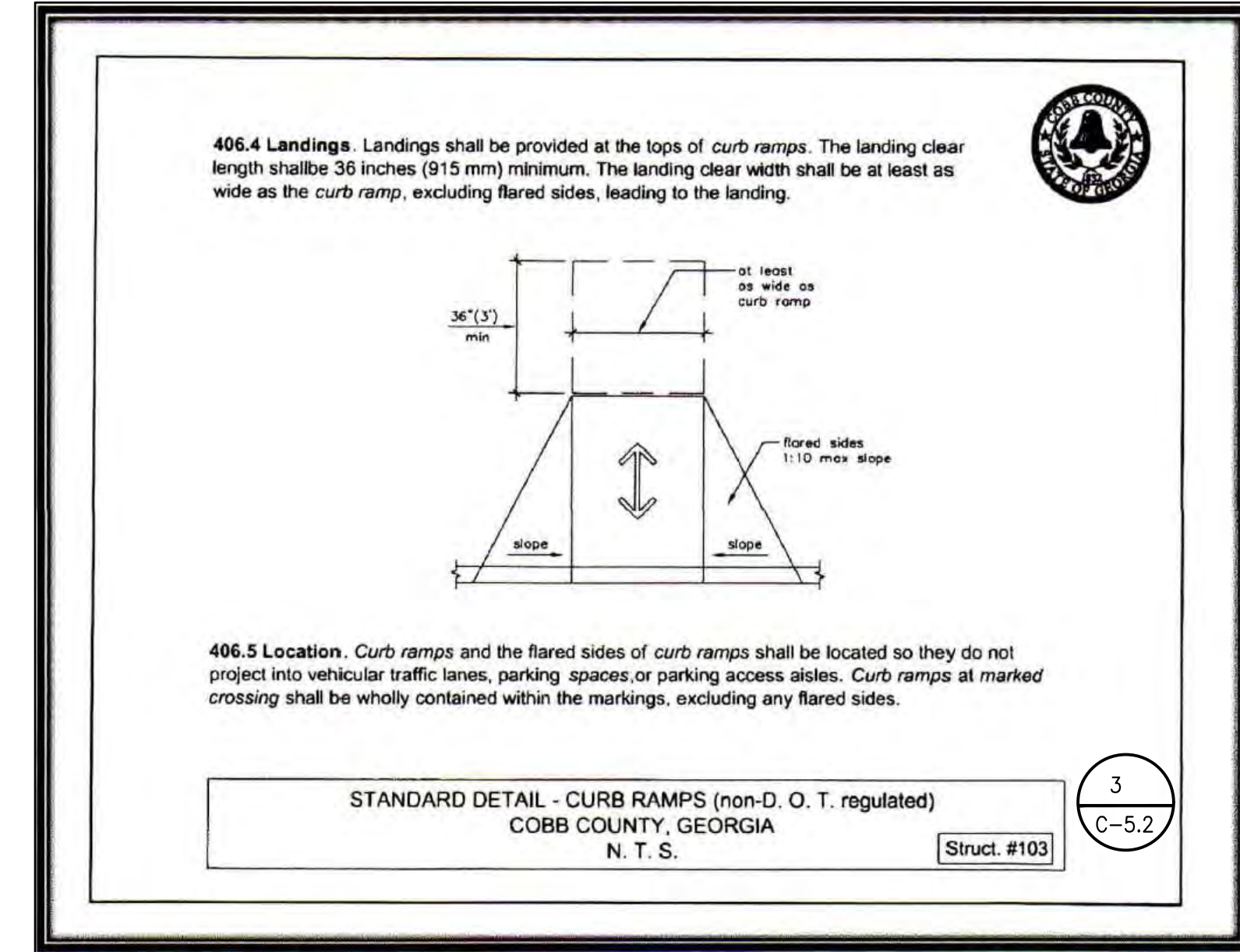
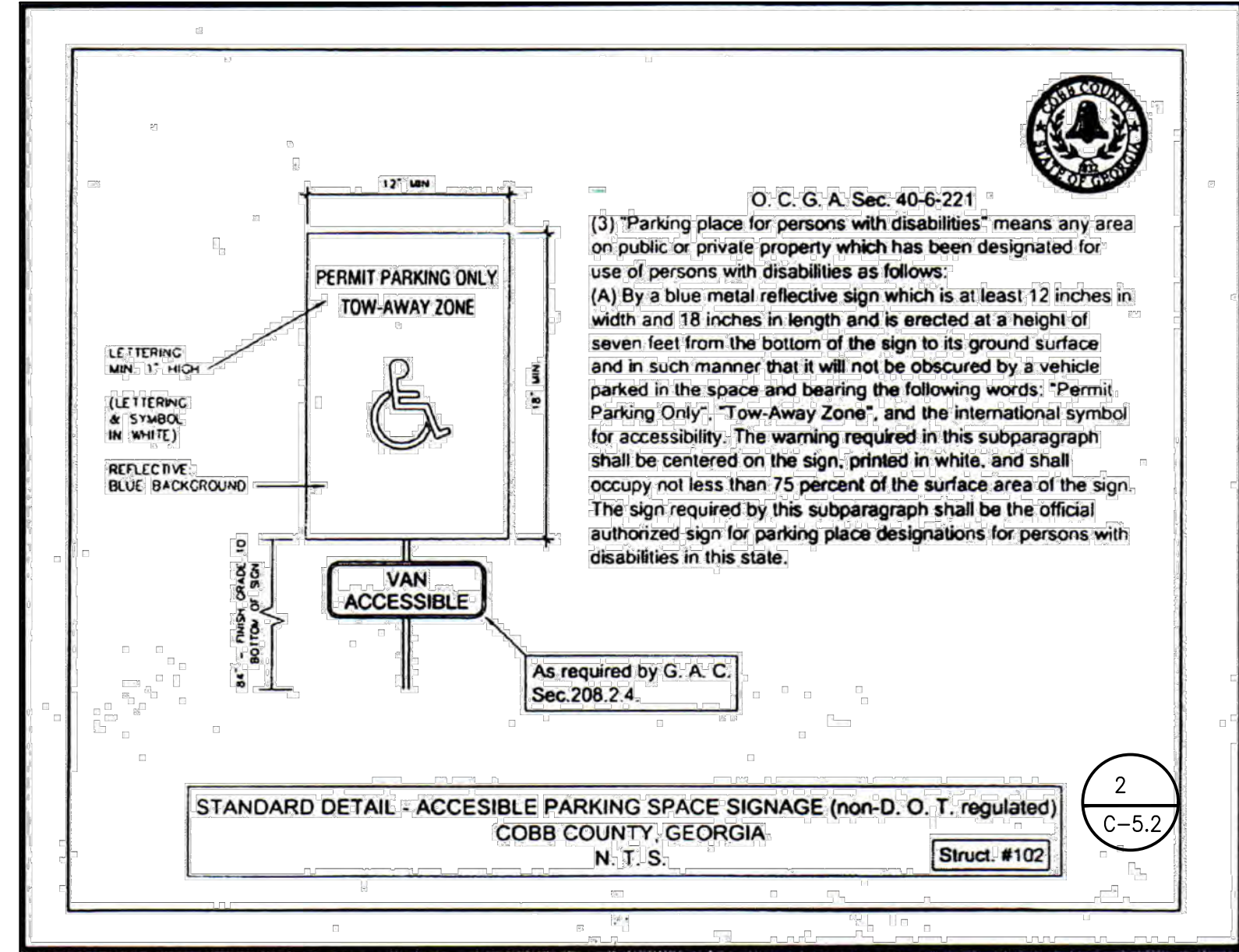
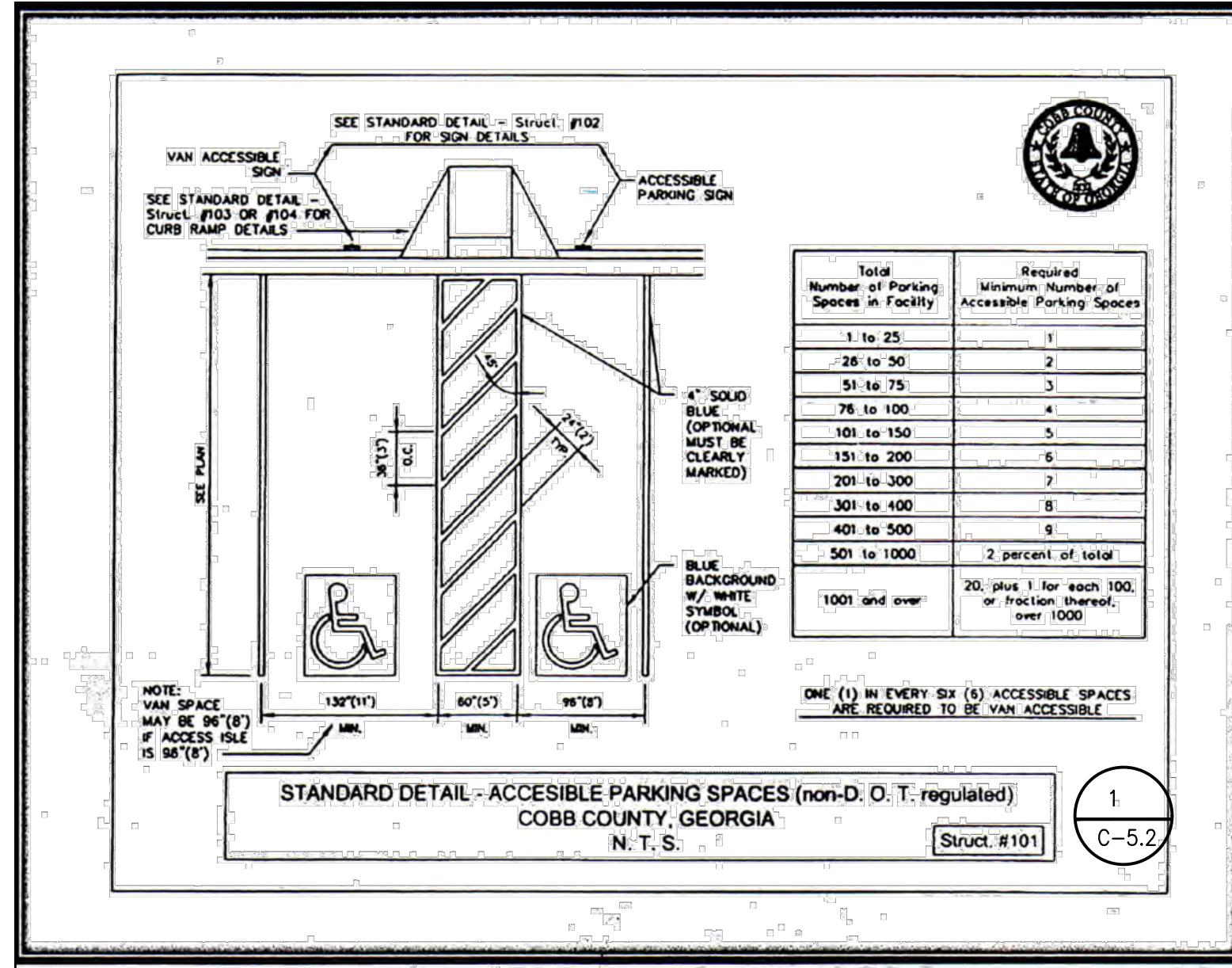
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2-21-22						03/23/2022		04/13/2022	07/18/2022



CONSTRUCTION PLANS FOR:
**4500 HIGHLAND
 PARKWAY SE**
 LAND LOT 608, DISTRICT 17, SMYRNA
 COBB COUNTY, GA 30082

CVE PI # 21-468

SHEET NO.
C-4.6

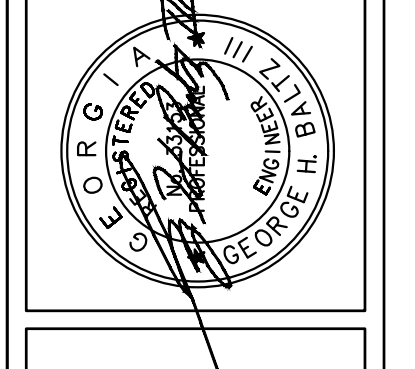


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Prepared For:
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SMYRNA, GA 30082

CONSTRUCTION DETAILS

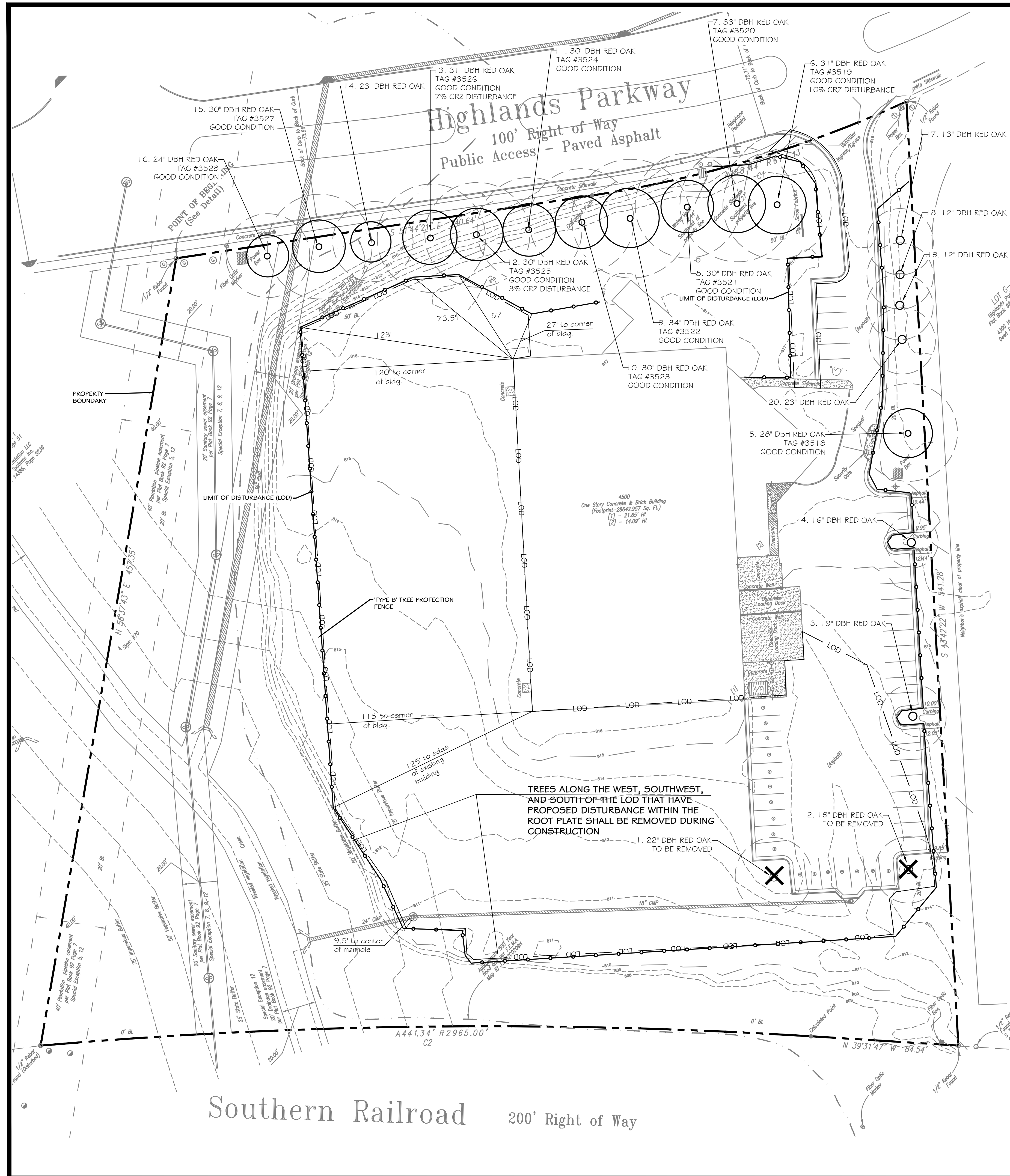
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2-21-22	PG	03/23/2022		
DRAWN	PG	04/13/2022		FIRE COMMENTS
CHECKED	GHB	07/18/2022		COUNTY COMMENTS



CONSTRUCTION PLANS FOR:
4500 HIGHLAND
PARKWAY SE
LAND LOT 608, DISTRICT 17, SMYRNA
COBB COUNTY, GA 30082

CVE PI # 21-468

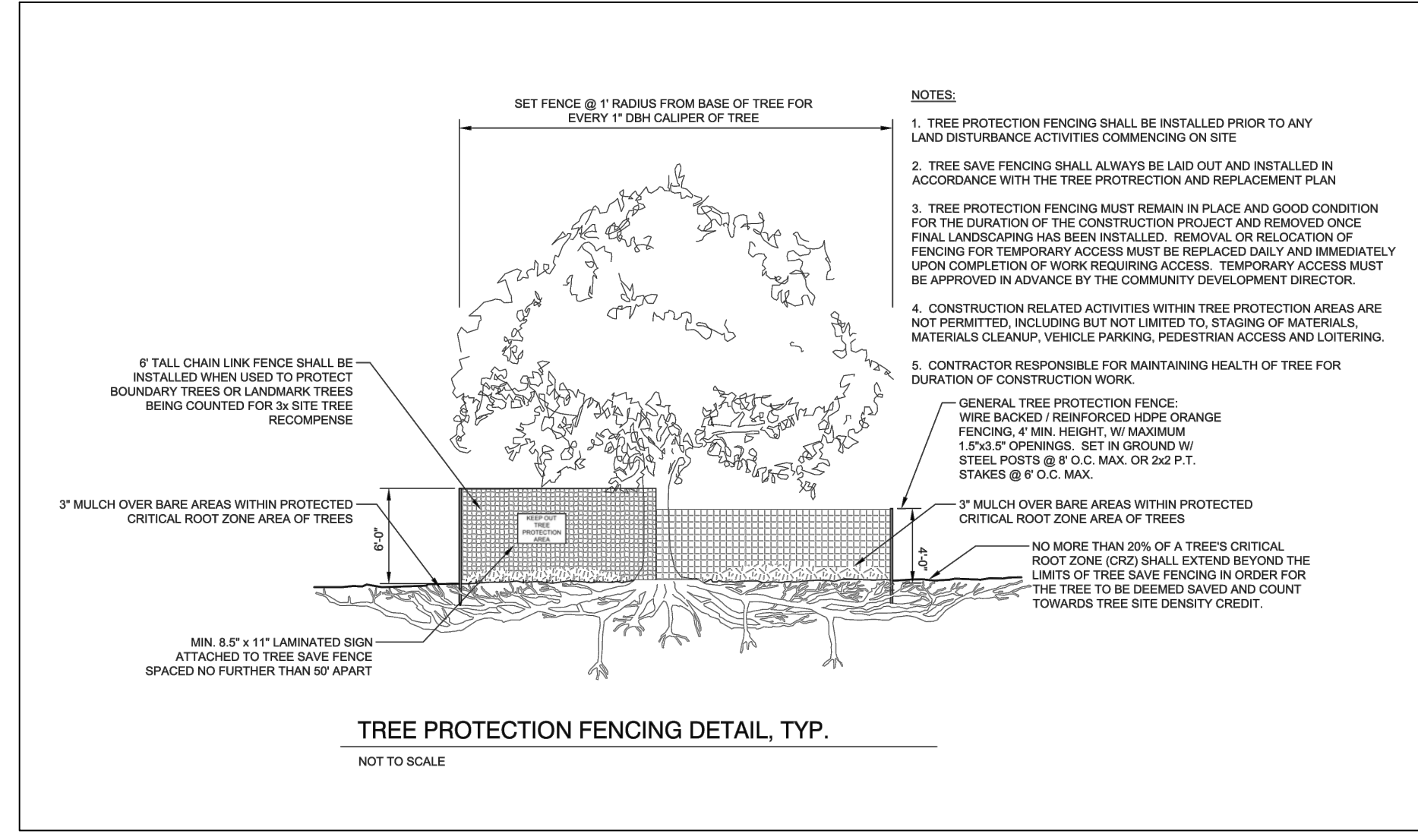
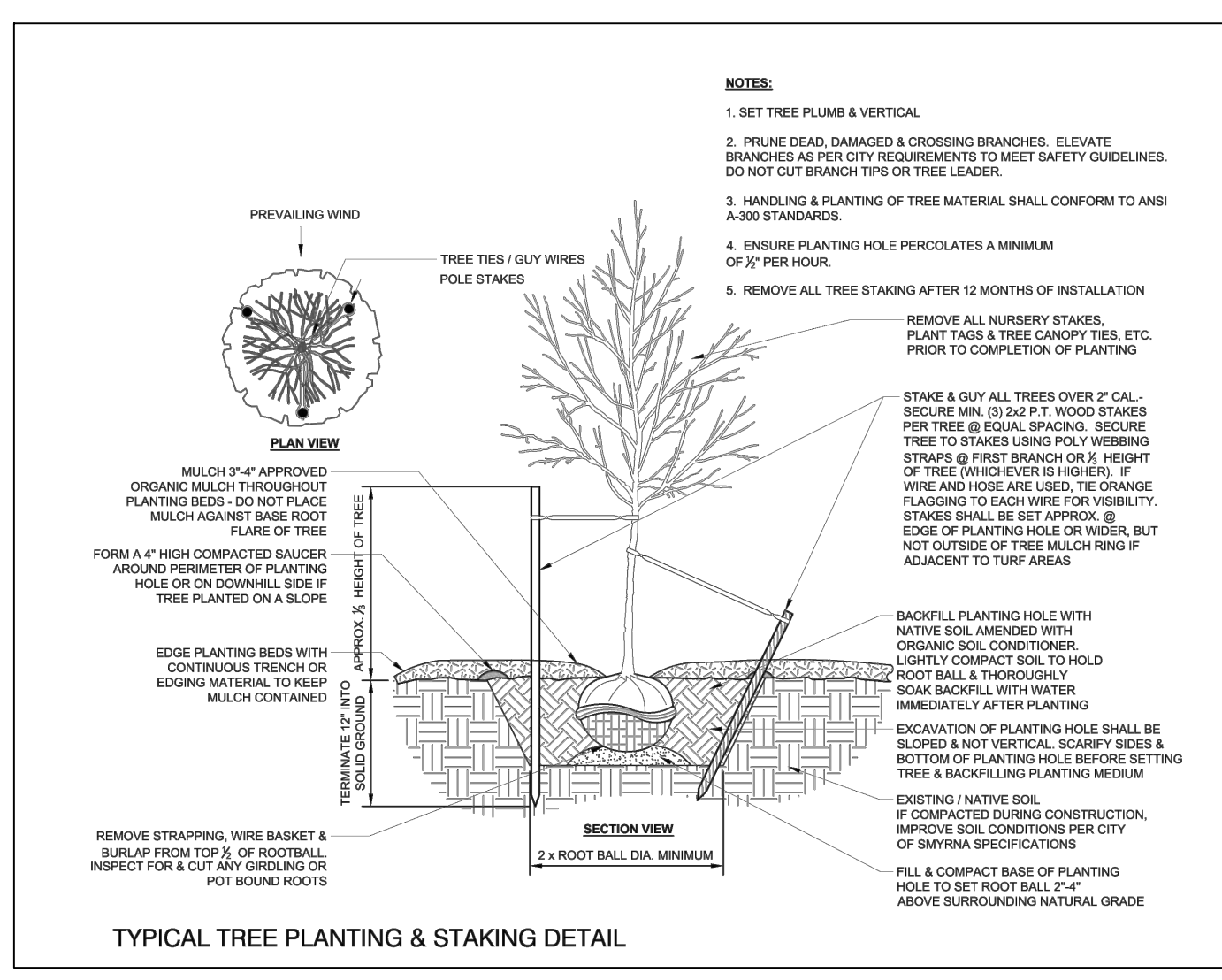
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C-5.2



LEGEND:
 X EXISTING TREES TO BE REMOVED

EXISTING TREES TO REMAIN

TREE #	INCHES	SPECIES	CONDITION
3.	19	RED OAK	GOOD
4.	15	RED OAK	GOOD
5.	28	RED OAK	GOOD
6.	31	RED OAK	GOOD
7.	33	RED OAK	GOOD
8.	30	RED OAK	GOOD
9.	34	RED OAK	GOOD
10.	30	RED OAK	GOOD
11.	30	RED OAK	GOOD
12.	30	RED OAK	GOOD
13.	31	RED OAK	GOOD
14.	23	RED OAK	GOOD
15.	30	RED OAK	GOOD
16.	24	RED OAK	GOOD
17.	23	RED OAK	GOOD
18.	13	RED OAK	GOOD
19.	12	RED OAK	GOOD
20.	13	RED OAK	GOOD
449 TOTAL INCHES TO REMAIN			




- CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT (770) 319-5387 TO ARRANGE A PRECONSTRUCTION CONFERENCE PRIOR TO ANY LAND DISTURBANCE. NO PERMIT SHALL BE ISSUED UNTIL PLANS ARE APPROVED AND AN ON-SITE INSPECTION WITH CITY REPRESENTATIVE OCCURS.
- ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING OR THE REMOVAL OF IMPERVIOUS SURFACES OR STRUCTURES.
- ALL EXISTING TREES, SPECIMEN AND NON-SPECIMEN, COUNTED FOR EDF CREDITS MUST BE FULLY PRESERVED DURING INDIVIDUAL LOT PERMITTING.
- TREES AGREED UPON TO BE SAVED IS THE RESPONSIBILITY OF THE OWNER.
- THE COMMUNITY DEVELOPMENT DIRECTOR MUST INSPECT THE SITE BEFORE INSTALLATION OF EROSION CONTROL MEASURES. LAND DISTURBANCE WITHOUT A SITE INSPECTION AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR WILL RESULT IN A 'STOP-WORK ORDER' AND FINES.
- IF TREE SURVEY INACCURACIES ARE FOUND ON-SITE, A STOP WORK ORDER WILL BE ISSUED UNTIL REVISED PLANS ARE APPROVED AND PROCESSED BASED ON ACCURATE INFORMATION.
- THE COMMUNITY DEVELOPMENT DIRECTOR MUST INSPECT AND APPROVE THE SITE BEFORE THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- A 3" LAYER OF ORGANIC MULCH WILL BE REQUIRED FOR THE CRZ OF SPECIMEN TREES. MULCH MUST BE APPLIED PRIOR TO START OF CONSTRUCTION. KEEP MULCH AT LEAST 5-INCH RADIUS AWAY FROM THE TRUNK.
- A 3" LAYER OF ORGANIC MULCH WILL BE REQUIRED FOR ALL REPLACEMENT TREES. MULCH MUST BE APPLIED PRIOR TO START OF CONSTRUCTION. KEEP MULCH AT LEAST 5-INCH RADIUS AWAY FROM THE TRUNK.
- ALL NEWLY PLANTED TREES SHALL HAVE VISIBLE ROOT FLARES AT FINISHED GRADE. NO CIRCLING ROOTS SHALL BE ALLOWED ON PLANTED TREES. THE UPPER 2 / 3 OF THE WIRE BASKET, ALL BURLAP AND STRAPPING SHALL BE CUT AND REMOVED PRIOR TO BACKFILL.
- TREES LESS THAN THE CALIPER INCH SHOWN WILL NOT BE ACCEPTED. I.E. 4 INCH CALIPER TREES MUST BE 4 INCHES OR LARGER.
- PLANT HEIGHT MEASUREMENT IS TAKEN AT THE TOP OF THE MAIN BODY OF THE PLANT AND NOT AT THE TIP OF THE TOPMOST GROWTH.
- ALL NEWLY PLANTED TREES SHALL BE EQUIVALENT IN QUALITY TO A FLORIDA #1 GRADE OR BETTER. ALL TREES OF LESSER QUALITY SHALL BE REJECTED BY THE COMMUNITY DEVELOPMENT DIRECTOR. NO SUBSTITUTIONS.
- NO TRENCHING ALLOWED IN TREE SAVE AREAS - INCLUDING IRRIGATION.
- ALL TREE GUYS AND STAKES SHALL BE REMOVED FROM TREE ONE YEAR AFTER PLANTING OR BEFORE.
- WATERING BAGS OR A DRIP IRRIGATION SYSTEM WILL BE PROVIDED FOR ALL TREES PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- WATER BAGS WILL BE REFILLED ACCORDING TO SOIL CONDITIONS AND ADJUSTED DURING TIMES OF DROUGHT FOR A MINIMUM OF 2 YEARS AFTER INSTALLATION.
- TREE SAVE FENCE FOR THE ENTIRE SITE MUST BE INSTALLED, INSPECTED AND APPROVED PRIOR TO THE INSTALLATION OF EROSION CONTROL MEASURES.
- NO LAND DISTURBANCE OR DEMOLITION IS ALLOWED BEFORE TREE SAVE FENCING HAS BEEN INSPECTED AND APPROVED BY COMMUNITY DEVELOPMENT DIRECTOR.
- One month prior to the planting of the replacement trees, the Project Arbonst, Developer, Builder, and/or General Contractor, shall contact the City Arbonst and Community Development to schedule a Pre-landscape meeting. The City Arbonst will provide and review the City's pre-landscape checklist with the Landscape Contractor and Project Arbonst.
- ALL TREES MUST BE PLANTED AT LEAST 10 FEET FROM ANY UTILITY LINE


PROJECT:
PARKING LOT ADDITION

LOCATION:
4500 HIGHLAND PKWY
LAND LOT 609
LAND DISTRICT 17
COBB COUNTY
SMYRNA, GA 30082

OWNER/DEVELOPER:
OWNER/DEVELOPER NAME

CONSULTANT:

TJ SCHELL, LLC

Landscape Architect • Consulting Arborist
770.361.2319
teresaj@tjschell.com
2985 Gordy Pkwy., Ste. 422, Marietta, GA 30066


SEAL:

TERESA H. ELDRIDGE
ISA - 50442A

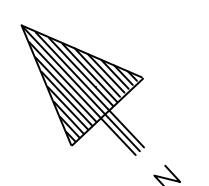
SCALE 1" = 30'


REVISIONS	DATE

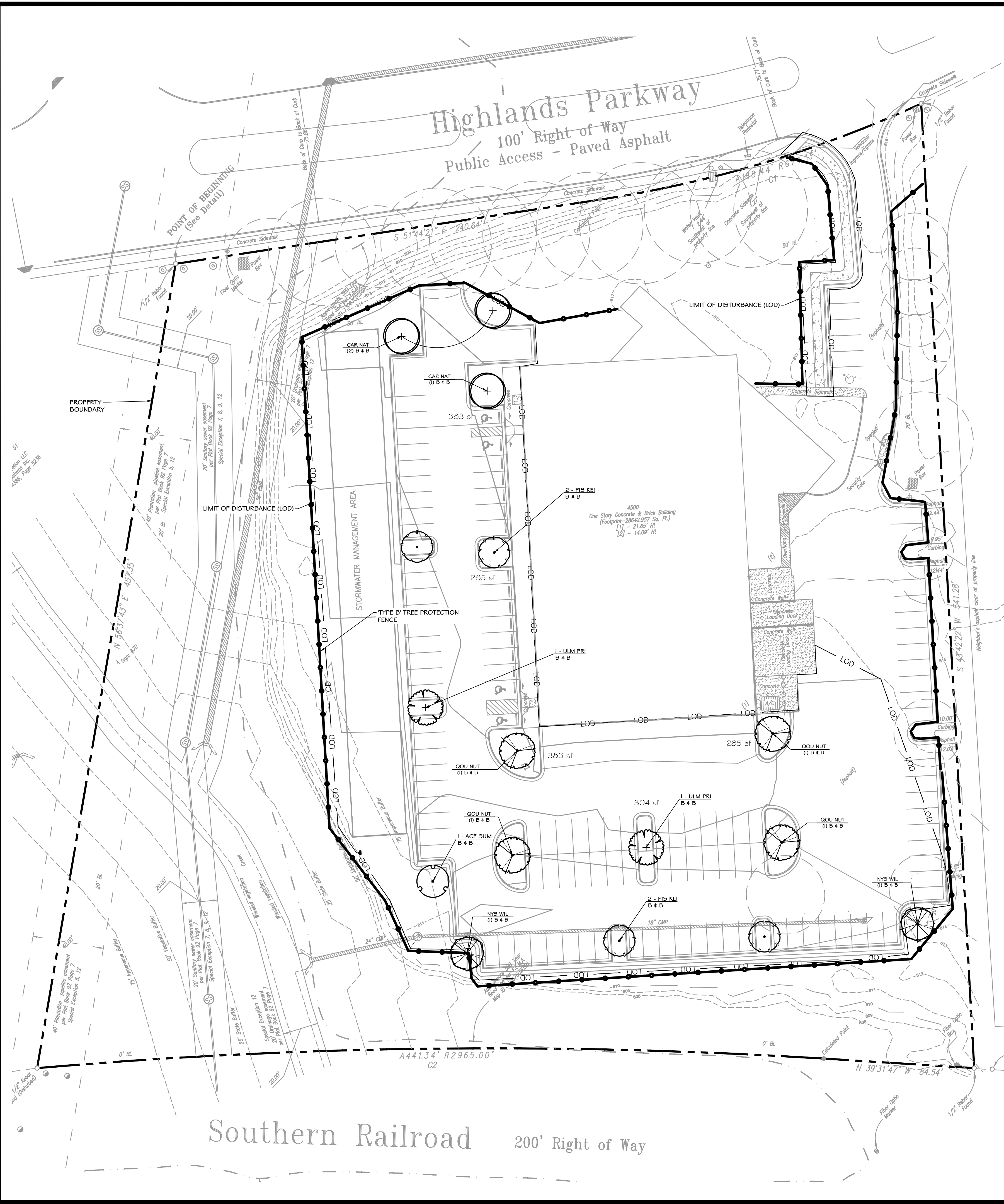
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JURISDICTION:
DATE:
SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER: **T.1**

 Know what's below. before you dig. Dial 811 Or Call 800-282-7411



Southern Railroad 200' Right of Way



Atlanta Arbor
800 City St SE
Marietta, GA 30066

Invoice #34010
Date: 08-30-2022
From: Joshua Paul Carroll

Location: 4500 Highlands Parkway SE, Smyrna, GA 30082

ITEM DESCRIPTION	AMOUNT	TAXES	TOTAL
Arboriculture Consultation	240	\$100.00	\$340.00
Fertilization	1.0	\$400.00	\$400.00
Plant Growth Regulator	1.0	\$700.00	\$700.00

PAID

Atlanta Arbor
800 City St SE
Marietta, GA 30066

Invoice #34010
Date: 08-30-2022
From: Joshua Paul Carroll

Location: 4500 Highlands Parkway SE, Smyrna, GA 30082

ITEM DESCRIPTION	AMOUNT	TAXES	TOTAL
Fertilization	4.0	\$350.00	\$1400.00

Joshua Paul Carroll
ISA CERTIFIED ARBORIST
HSO-4750A
Pesticide Applicator #10994
Tree Risk Assessment
Qualified (TRAQ)
Call: 404-352-2329
Core@atlantaarbor.com

Tree Prescription
Owner/Contractor: Nick Crippel
Work Address: 4500 Highlands Parkway SE, Smyrna, GA
Email: nick.crippel@atlantaarbor.com

The purpose of this Tree Care Prescription is to provide proper Arboricultural Care to the trees that will be impacted by construction. Construction projects can be divided into three phases: planning, design, pre-construction, construction, and post-construction. The tree care recommendations are based on a series of each phase. When performed a specific time of the month, a tree care plan along with the number of repeat services. The tree care recommendations provided are to offset the impacts to the tree system, change to the tree's environmental conditions, and maintain them. It is expected that the plan will be followed throughout the construction project starting at the onset of the 10% final CIP with any additional work during the tree care construction phase. We are submitting a 12 Month Construction Incentive with the tree care plan starting for 12 Month ending 2024. This tree care prescription MUST be prepared prior to the issuance of a development permit. Proof of payment shall be submitted with the application for a development permit.

Tree Protection Zone: 180' September 2022
As the Pre-Construction phase, the required tree protection fencing (TPF) per the approved plan shall be provided for the Project Control Interval shall be in place and observed and done for duration as noted. All trees 1.5" in diameter or greater measured during the limits of grading shall be classed out in order to preserve active growth and property value.

Final Construction Meeting: 180' September 2022
At the Pre-Construction phase, during the duration of structures within the critical root zones of trees to be preserved the Project Control Interval shall be in place and observed and done for duration as noted. All trees 1.5" in diameter or greater measured during the limits of grading shall be classed out in order to preserve active growth and property value.

Construction Meeting: April 2023, May 2023
During the duration of the construction phase, monthly inspections of the tree protection zones and individual trees shall be performed by the Project Control Interval. A written report (copy) of the inspection and detailing any changes to the condition of these trees shall be provided to the Developer and the City of Smyrna, GA.

Fertilization and Growth Regulator: During the Construction phase, fertilization using a 10-10-10 (or similar) slow release liquid, or pelletized fertilizer with nutrients and systems shall be applied, at the recommended rates, within the MRP of the tree. A type 1 Growth Regulator will be installed in accordance to MRP recommendations (December 2022).

Pre-Planting/Planting: 180' 2022
At the end of the construction phase, the project developer will meet with the Landscaper to discuss proper planting and staking techniques, as well as landscape material collection at the time of planting.

Fertilization for Newly Planted Landscaping: Fertilization using a 10-10-10 (or similar) slow release liquid, or pelletized fertilizer with nutrients and systems shall be applied, at the recommended rates, within the MRP of the newly planted trees in March 2023, September 2023, March 2024, September 2024.

Post-Construction Monitoring: March 2023 - September 2024
During the Post-Construction phase, for 11 or 2 years determined by inspection of trees following construction the Project Control Interval shall perform quarterly inspections and provide a written report (copy) to the City of Smyrna, Georgia on the condition of the new landscape trees. Access to the trees shall be provided by the contractor or owner as needed for these inspections. These inspections shall also include irrigation monitoring for the existing and newly planted trees. MONTHLY during the first growing season for a project that does not have an irrigation system installed.

These are living contracts, agreements to a dynamic environment, we cannot foresee every contingency nor can we guarantee the life of any given specimen.

ATLANTA ARBOR TREE CARE SPECIALIST, LLC
1782 Atlanta Road SE • Smyrna, Georgia • 30080 • 770-916-8555 • atlantaarbor.com • joseph.h.eldredge@atlantaarbor.com • teresa.h.eldredge@atlantaarbor.com

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	T. INCHES	%	SF Per Tree
	ACE SUM	1	Acer rubrum 'Summer Red' / Summer Red Maple Single Straight Leader, Good Form, Healthy	B # B	3'cal.	12-14' Ht.	3	6	800
	CAR NAT	3	Carpinus caroliniana 'Native Flame' / Native Flame Hornbeam Single Straight Leader, Good Form, Healthy	B # B	4"	12-14' Ht.	12	19	800
	NYS WIL	2	Nyssa sylvatica 'Wildfire' / Black Gum Single straight Leader, Healthy, Good Form	B # B	4"	12-14' Ht.	8	12.5	800
	PIS KEI	4	Pistacia chinensis 'Keith Davey' / Keith Davey Chinese Pistache Single, straight, leader, Good Form, Healthy	B # B	4'cal.	10-12' Ht.	16	25	800
	QOU NUT	4	Quercus nuttallii / Nuttall Oak Single Straight Leader, Healthy, Good Form	B # B	4"	12-14' Ht.	16	25	1600
	ULM PRI	2	Ulmus americana 'Princeton' / American Elm Single Straight Leader, Healthy, Good Form	B # B	4"	12-14' Ht.	8	12.5	1600
							16 TREES	63 INCHES	100

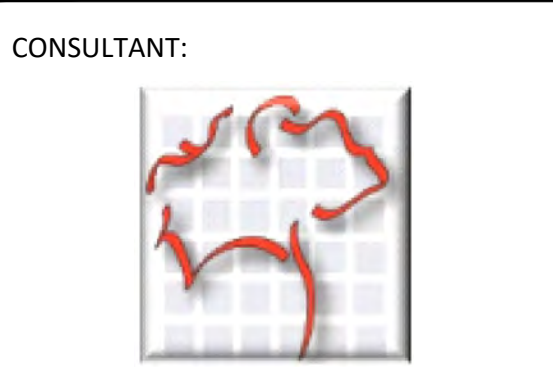
PROPOSED VEGETATION NOTES:

1. VERIFY ALL SITE DISTANCES FOR TREES & SHRUBS PRIOR TO INSTALLATION.
2. ALL GRASSED AREAS TO BE BERMUDA SOD.
3. ALL PLANTED MATERIALS TO BE MULCHED AND WATERED IMMEDIATELY UPON INSTALLATION.
4. TREES MUST BE IN PLACE PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
6. TOPPING TREES IS NOT ALLOWED. TREES REMOVED OR HAVING THEIR TOPS CUT AFTER COMPLIANCE WITH THIS ORDINANCE SHALL BE REPLACED WITH THE EQUIVALENT INCHES OF REMOVED TREES.
7. THE COMMUNITY DEVELOPMENT DIRECTOR MUST BE NOTIFIED OF THE COMPLETION OF ANY TREE CARE ITEM IN THE PLAN. PROOF OF COMPLETION MUST ALSO BE SUBMITTED TO THE COMMUNITY DEVELOPMENT DIRECTOR.

PROJECT:
PARKING LOT ADDITION

LOCATION:
4500 HIGHLAND PKWY
LAND LOT 609
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OWNER/DEVELOPER:
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teresa@tjschell.com
2985 Gordy Pkwy., Ste. 422, Marietta, GA 30066



SCALE 1" = 30'
30' 0' 30'

REVISIONS	DATE

DRAWN BY:
JURISDICTION:
DATE:
SHEET TITLE:
TREE PLAN

SHEET NUMBER:
T.2

