FULLWOOD ROAD IMPROVEMENTS PHASE II

PEACH COUNTY BOARD OF COMMISSIONERS

FULLWOOD ROAD, FORT VALLEY, GA FEBRUARY 2021

PROJECT DESCRIPTION:

THIS ROADWAY PAVING PROJECT IS LOCATED EAST OF FORT VALLEY WITHIN A RURAL RESIDENTIAL COMMUNITY AND IS THE SECOND PHASE OF A ROADWAY IMPROVEMENT PLAN. PHASE II, AS SHOWN IN THESE PLANS, CONSISTS OF PAVING APPROXIMATELY $\pm 7,800$ L.F. OF EXISTING DIRT ROADWAY. THE PROJECT IS LOCATED IN LAND LOTS 78, 83, 84, 109, 110, 115. & 116 OF THE 9th LAND DISTRICT, IN PEACH COUNTY, GEORGIA.

TOPOGRAPHIC SURVEY:

WELLSTON ASSOCIATES LAND SURVEYORS, LLC DATED: DECEMBER 20, 2020.

REVISED 01-12-2021

EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR

OWNER:

PEACH COUNTY BOARD OF COMMISSIONERS

CHAIRMAN: MARTIN MOSELEY MEMBER: SHANITA BRYANT

MEMBER: ROY LEWIS
MEMBER: BETTY HILL
MEMBER: WADE YODER

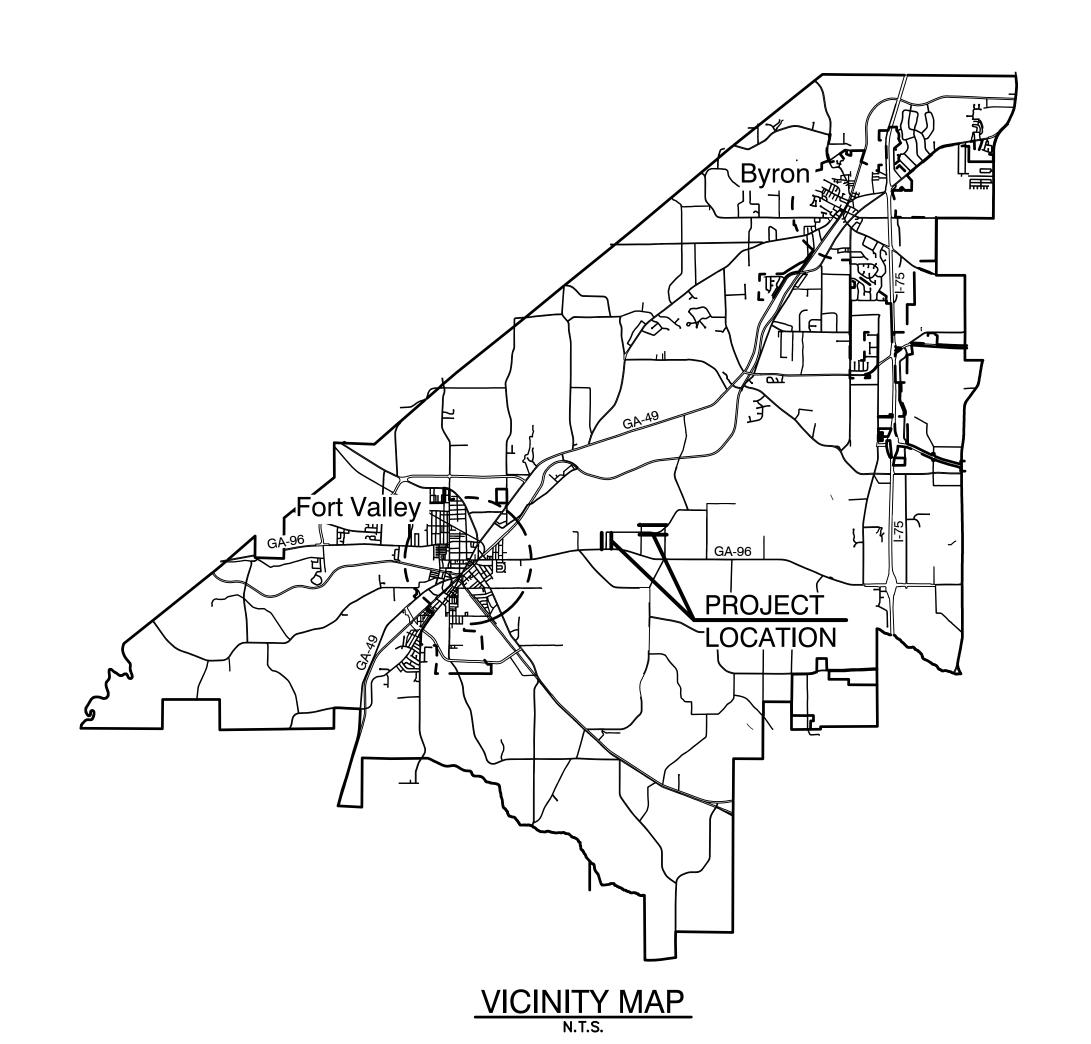
213 PERSONS STREET

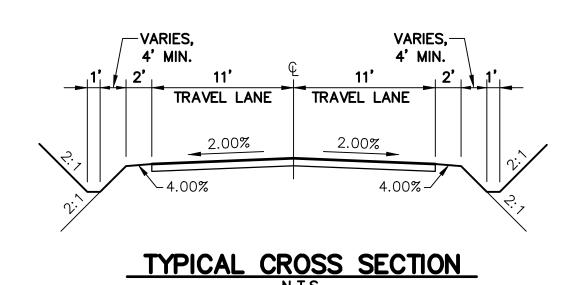
FORT VALLEY, GEORGIA 31030

PHONE: (478)825-2535

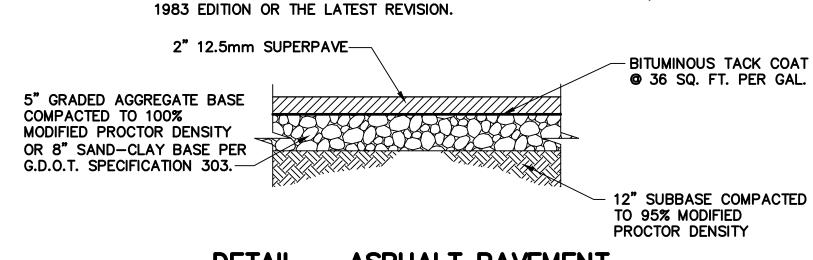
24-HOUR CONTACT:

MICHAELA JONES PHONE: (478)827-3532





ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL COMPLY WITH SECTIONS 400, 412, 413, 300, 310 AND ALL REFERENCED SECTIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES,



DETAIL - ASPHALT PAVEMENT

PRIMARY PERMITTEE			₹ 24 HR CONTACT	*	INDEX TO DRAWINGS
PEACH COUNTY BOARD OF COMMISSIONERS	TRIPLE POINT ENGINEERING	EXISTING CONDITIONS SHOWN ARE FROM A		SHEET NUMBER	SHEET TITLE
ATTN: 213 PERSONS STREET	RUSSELL WHEELER, P.E. 5223 RIVERSIDE DRIVE, SUITE 101	FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY WELLSTON ASSOCIATES	REPRESENTATIVE OF THE CONTRACTOR NAME: MICHAELE JONES DHONE: (478) 825 8717		TITLE SHEET
FORT VALLEY, GA 31030	MACON, GEORGIA 31210	LAND SURVEYORS, LLC DATED: 12-07-2020	PHONE: (478) 825-8717	0.1	GENERAL NOTES
OFFICE PHONE: 478.825.2535	PHONE: 478.476.0700 FAX: 478.476.0776	REVISED 01-12-2021	INTERIM 24 HR CONTACT BECKY COX (DIRECTOR OF ENGINEERING SERVICES)	1.0	FULLWOOD RD. PLAN & PROFILE 1 (STA 0+00.00 to 14+5

PROJECT DESCRIPTION

THE PROJECT IS LOCATED EAST OF FORT VALLEY WITHIN A RURAL RESIDENTIAL COMMUNITY AND IS THE SECOND PHASE OF A ROADWAY IMPROVEMENT PLAN. PHASE II, AS SHOWN IN THESE PLANS, CONSISTS OF PAVING APPROXIMATELY $\pm 7,800$ L.F. OF EXISTING DIRT ROADWAY. THE PROJECT IS LOCATED IN LAND LOTS 78, 83, 84, 109, 110, 115, & 116 OF THE 9th LAND DISTRICT, IN PEACH COUNTY, GEORGIA.

rwheeler@tpointeng.com

TOTAL SITE ACREAGE: 4.13 AC. TOTAL DISTURBED AREA: 4.13 AC.

GPS LOCATION OF CONSTRUCTION EXIT: 32.549354° N, 83.900012° W

CENERAL NOTES

1. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHOULD BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, PRIOR TO PROCEEDING WITH CONSTRUCTION.

2. IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY

3. THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF NPDES GENERAL PERMIT GAR 100001

PHONE: 478.827.3534

GENERAL NOTES
FULLWOOD RD. PLAN & PROFILE 1 (STA 0+00.00 to 14+50.00)
FULLWOOD RD. PLAN & PROFILE 2 (STA 0+00.00 to 14+50.00)
FULLWOOD RD. PLAN & PROFILE 2 (STA 14+50.00 TO 25+44.39)
2.0 CROSS SECTIONS FOR PROFILE 1 (STA 0+00 TO STA 14+00)
2.1 CROSS SECTIONS FOR PROFILE 2 (STA 0+50 TO STA 18+00)
2.2 CROSS SECTIONS FOR PROFILE 2 (STA 18+50 TO STA 25+44)
3.0 DETAILS & NOTES

3.1 NPDES NOTES

| ISSUE SEQUENCE | Continue to the point engineering, Inc., 2021 | Ingits reserved | Pursuant to agreement to the part of the part for which these documents and the part for which these documents all data, plans, specifications and other midmants on contained therein are the sole exclusive property of TPE, Inc., and may used only in connection with the project which these documents have been preply TPE, Inc., and for no other purposes. Unauthorized use of these documents have been preply TPE, Inc., and for no other purposes. Unauthorized use of these documents have been preply TPE, Inc., and for no other purposes. Unauthorized use of these documents have been preply TPE, Inc., and for no other purposes. Unauthorized use of these documents for purpose shall be at the user's sole risk, whithout liability to TPE, Inc., and subject reasonable compensation by the user to the purpose shall be at the user's sole dissertion. All rights of design and invention are reserved to TPE, Inc. inc., and supplementation are reserved to TPE, Inc. inc., and supplementation are reserved to TPE, Inc. inc., and supplementation are reserved to TPE. Inc.



5223 Riverside Drive • Suite 10^o

FULLWOOD ROAD IMPROVEMENTS PHASE
FOR THE
PEACH COUNTY BOARD OF COMMISSIONER

ELMINAT RUCTOR

PROJECT NO.: PCO 030DATE: FEBRUARY 9, 2021SCALE: NTS

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UEGEND

BORE HOLE

	EXISTING	<u>PROPOSED</u>
IRON PIN FOUND	⊙ <i>IPF</i>	
IRON PIN SET	O IPS	
CONCRETE MONUMENT FOUND	⊡ CMF	
BENCHMARK	◆	
PROPERTY LINE / RIGHT OF WAY		
CREEK / SWALE		
CONTOUR	·100·	 100
BOLLARD	⊙B	
WATER LINE	W	w
FIRE HYDRANT	\mathfrak{O}	Q
WATER VALVE	\bowtie	×
IRRIGATION CONTROL VALVE	□ ICV	
WATER METER	$\langle \rangle$	
WELL	@	
GAS LINE	G	
GAS VALVE	\bowtie	
GAS METER	G	
MANHOLE	Ś	S
SANITARY SEWER LINE	SAN	
CLEAN OUT	©	@
STORM SEWER PIPE	======	777777777777777777777777777777777777777
HEADWALL		\smile
DROP/YARD INLET/JUNCTION BOX		
END SECTION		
CATCH BASIN (GA. DOT)		
LIGHT POLE	\Rightarrow	
POWER/UTILITY POLE/GUY WIRE	ф-¬	
OVERHEAD POWER, TELEPHONE, & CABLE	•	
UNDERGROUND POWER	—— UGP ——	
UNDERGROUND TELEPHONE	UGT	
TRANSFORMER		
TELEPHONE BOX		
CABLE BOX	0	
TREE	☆ ○	
ASPHALT PAVEMENT	V	
CONCRETE PAVEMENT		
UNPAVED/GRAVEL ROAD		
WETLANDS		
LANDLOT		
100-YEAR FLOOD LIMITS	100YR	
EASEMENT		
RAILROAD TRACK		
GUARD RAIL		
OUT TO THE	X	

STRIPING AND SIGNAGE:

- 1. WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF WORK WITHIN A PUBLIC RIGHT-OF-WAY AND SHALL REMAIN IN PLACE UNTIL THE WORK WITHIN THE RIGHT-OF-WAY HAS BEEN COMPLETED.
- 2. ALL WARNING DEVICES SHALL BE WITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE, AND SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT, 4. STRIPING (WHITE AND YELLOW) AND ARROW MARKINGS SHALL BE APPLIED USING PAINT MEETING THE STANDARDS OF THE GEORGIA DOT OR LOCAL ORDINANCE.
- 5. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED OTHERWISE BY THE LOCAL TRAFFIC ENGINEER.
- 6. ALL SIGNS SHALL BE INSTALLED CONCURRENT WITH THE PERFORMANCE OF THE STRIPING WORK.

CONTRACTOR/DEVELOPER NOTES:

AND TO THE STORMWATER CONVEYANCE SYSTEM.

1. FOR OTHER SITE, MISCELLANEOUS AND/OR SPECIAL NOTES SPECIFIC TO VARIOUS CONSTRUCTION PHASES, REFER TO EACH INDIVIDUAL SHEET FOR SAID NOTES AND/OR CONDITIONS.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS

- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT PRIOR TO ORDERING PROJECT MATERIALS THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN
- OBTAINED FROM THE PROJECT ENGINEER INCLUDING, BUT NOT LIMITED TO, THE APPROVED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
- 4. THE DEVELOPER AND/OR DEVELOPERS CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
- 5. DISTURBANCE TO ANY SURVEY MARKER MAY REQUIRE RE-ESTABLISHMENT OF THE MARKER OR MONUMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

- 1. CONTRACTOR SHALL REVIEW SITE DEVELOPMENT PLANS, AND SHALL REMOVE ALL EXISTING SITE FEATURES REQUIRED FOR CONSTRUCTING THE PROPOSED IMPROVEMENTS.
- 2. ALL PAVEMENT TO BE REMOVED (CONCRETE & ASPHALT) SHALL BE SAW CUT AT THE EDGE OF THE
- 3. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY OWNERS TO ENSURE UNINTERRUPTED UTILITY SERVICE TO USERS. SERVICE LINES TO BE REMOVED SHALL BE REMOVED TO THE MAIN
- 4. CLEAN-UP AND DISPOSAL: TRANSPORT TRASH, RUBBISH AND DEBRIS FROM SITE DAILY AND DISPOSE OF THEM IN A LEGAL FASHION. REMOVE AND PROMPTLY DISPOSE OF CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED. DO NOT BURN OR BURY MATERIALS ON SITE. REMOVE TOOLS, EQUIPMENT AND PROTECTIONS WHEN WORK IS COMPLETE AND WHEN AUTHORIZED TO DO SO BY THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

GRADING AND EARTHWORK NOTES

- - THE VERTICAL AND HORIZONTAL DATUM FOR THIS PROJECT CAN BE OBTAINED FROM THE SURVEYOR LISTED ON THE TITLE SHEET.
 - THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF EXISTING CONDITIONS ENCOUNTERED ON THE PROJECT SITE DIFFER FROM THOSE DEPICTED ON THE PLANS. IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS DEPICTED ON THE DRAWINGS, INCLUDING ADJACENT TRANSITION AREAS. SMOOTH FINISHED SOIL SURFACE WITHIN 0.1' OF THE PROPOSED CONTOURS AS DEPICTED ON THE DRAWINGS. COMPACT WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING
- SUBGRADE AND FOUNDATION PREPARATION
- REMOVE ALL TOPSOIL, VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. TOPSOIL SHALL BE CONSIDERED TO MEAN ORIGINAL SURFACE SOIL, TYPICAL OF AREA, WHICH IS CAPABLE OF SUPPORTING NATIVE PLANT GROWTH, AND SHALL BE FREE OF LARGE STONES, ROOTS, BRUSH, WASTE CONSTRUCTION DEBRIS AND OTHER UNDESIRABLE MATERIAL OR CONTAMINATION. PLOW, STRIP, OR BREAK-UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE.
- WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR PARTICULAR AREA CLASSIFICATIONS, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE-CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY. REMOVE AND REPLACE ANY EXISTING GROUND MATERIAL THAT DOES NOT MEET THE CRITERIA FOR SATISFACTORY SOIL MATERIAL OR WILL NOT COMPACT TO THE SPECIFICATIONS LISTED BELOW.
- SATISFACTORY SOIL MATERIALS:
- SATISFACTORY SOIL MATERIALS FOR FILL MATERIAL SHALL BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AS SM. SC. ML AND CL. SATISFACTORY SOIL MATERIALS DESCRIBED ABOVE MUST BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION. DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE AND OTHER DELETERIOUS MATTER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING TESTING OF BORROW MATERIALS TO DETERMINE SUITABILITY FOR USE AS FILL MATERIAL. UNSUITABLE MATERIALS FOR FILLING AND BACKFILLING ARE THOSE CLASSIFIED AS MH, CH, OL, OH AND PT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM. EXCAVATED SOILS THAT ARE TOO WET TO COMPACT SHALL NOT BE CLASSIFIED UNSUITABLE DUE TO HIGH MOISTURE CONTENT ALONE.
- SOIL PLACEMENT, COMPACTION, AND TESTING REQUIREMENTS
- CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-698) FOR SOILS WHICH EXHIBIT A WELL-DEFINED MOISTURE DENSITY RELATIONSHIP DETERMINED IN ACCORDANCE WITH ASTM STANDARDS.
- ADDITIONAL COMPACTION SPECIFICATIONS MAY BE ASSOCIATED WITH THE CONSTRUCTION DETAILS
- 10. PLACE BACKFILL AND MATERIALS IN LAYERS NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
- BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM (OR UP O 3% ABOVE OPTIMUM FOR DETENTION OR SEDIMENT POND DAMS) MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
- 12. PLACE BACKFILL AND FILL MATERIALS EVENLY ADJACENT TO STRUCTURES TO REQUIRED ELEVATIONS. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING MATERIAL UNIFORMLY AROUND STRUCTURE TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACTION OF SOILS ADJACENT TO STRUCTURES MUST MEET THE SPECIFICATIONS
- 13. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT GEOTECHNICAL TESTING SERVICE TO INSPECT AND APPROVE ALL SEDIMENT POND AND DETENTION POND SUBGRADES AND FILL LAYERS. AN EXPERIENCED GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL OBSERVE THE PREPARATION OF THE DAM FOUNDATION AREA. SUBMIT ONE COPY OF RESULTS OF ALL COMPACTION TEST AND OBSERVATIONS OF PRE-DENSIFICATION TO OWNER AND ENGINEER.
- 14. PERFORM FIELD DENSITY TESTS IN ACCORDANCE WITH ASTM D 2937 (DRIVE CYLINDER METHOD), ASTM D 1556 (SAND CONE METHOD). AS APPLICABLE. OR NUCLEAR METHOD ASTM D 2922. MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 12" LAYER OF FILL PLACEMENT FOR EVERY 2.500 SQ. FT. OF FILL AREA. FOR DAMS OR 5,000SQFT FOR NON-DAM EARTHWORK AREAS.
- 15. THE CONTRACTOR SHALL ENGAGE A GEOTECHNICAL FIRM TO HAVE A QUALIFIED REPRESENTATIVE ON SITE ON A FULL-TIME BASIS DURING SUBGRADE EVALUATION AND FILL PLACEMENT FOR ALL EDIMENT POND AND DETENTION POND DAM CONSTRUCTION. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL ALSO INSPECT AND VERIFY IN WRITING THAT, IF REQUIRED BY THE PLAN, THE ANTI-SEEP COLLARS ARE PRESENT AND PROPERLY PLACED.
- 16. IF IN THE OPINION OF THE ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTIONS, SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, REMOVE THE UNSUITABLE FILL AND REPLACE IT WITH FILL MATERIAL COMPACTED TO THE SPECIFICATIONS
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUB-SURFACE SEEPAGE, OR SPRINGS DISCOVERED DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUB-SURFACE
- 18. THE CONTRACTOR SHALL INCLUDE IN THE BID COSTS RELATED TO TEMPORARY AND/OR PERMANENT MEASURES PROVIDED TO REMOVE SUBSURFACE SEEPAGE, SPRINGS OR OTHER GROUND WATER DURING AND PERMITTING, FRENCH DRAIN, ETC. WHETHER OR NOT DEPICTED IN THE BID SET.
- 19. ALL CUT AND FILL SLOPES (WHERE NO WALL IS PROPOSED) SHALL BE EQUAL TO OR FLATTER THAN 2:1 (HORIZONTAL:VERTICAL).
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE AND CITY PERMITS; INCLUDING, BUT NOT LIMITED TO BUILDING, EROSION CONTROL, AND ENCROACHMENT PERMITS. NO WORK IS TO BE INITIATED UNTIL PERMITS ARE RECEIVED.
- 21. ALL UTILITY TRENCHES ARE TO BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FURTHER CONCRETE/ASPHALTIC PAVEMENT AND STRUCTURES.

22. AS-BUILT SURVEY REQUIRED

- a. THE CONTRACTOR OR OWNER SHALL CONTRACT WITH A REGISTERED LAND SURVEYOR TO OBTAIN AN "AS-BUILT" SURVEY OF ALL DETENTION PONDS AND SEDIMENT PONDS (INCLUDING THE DAM AND OUTLET STRUCTURES.) THE SURVEY SHALL RECORD THE TOPOGRAPHY AND SIZE OF THE ENTIRE SEDIMENT POND OR DETENTION POND BASIN (MEASURED FROM THE LOW-POINT OF THE BASIN TO THE HIGH-POINT OF THE DAM,) THE GEOMETRY OF THE OUTLET STRUCTURES (INCLUDING THE EMERGENCY SPILLWAY), AND THE SIZE/TYPE/INVERTS OF ALL PIPES ASSOCIATED WITH THE STRUCTURE.
- 18. THE CONTRACTOR OR OWNER SHALL KEEP THE AS-BUILT DAM SURVEY INFORMATION AND SOIL COMPACTION TESTING DOCUMENTATION ON FILE FOR A PERIOD OF AT LEAST THREE YEARS FOLLOWING COMPLETION OF THE PROJECT. AT HIS OPTION, IF NOT REQUIRED BY LOCAL JURISDICTION, THE CONTRACTOR/OWNER MAY SUBMIT THE AS-BUILT SURVEY INFORMATION TO THE DESIGN ENGINEER FOR VERIFICATION THAT THE SEDIMENT POND AND/OR DETENTION POND CONSTRUCTION MEETS THE INTENT OF THE DESIGN AND THE LINES AND GRADES DEPICTED ON THE CONSTRUCTION DRAWINGS.
- 19. UNLESS OTHERWISE NOTED FINISH GROUND IS 8" BELOW TOP OF SLAB

ELECTRONIC CAD FILE NOTICE

THE DWG FILE IS ONLY SUITABLE FOR USE BY THE DESIGN PROFESSIONAL FOR PRODUCING PRINTS OF THE DESIGN INTENT. ANY OTHER USE OF THE DWG FILE IS AT THE RISK OF THE USER.

FLOODPLAIN/WETLANDS/STATE WATERS:

- 1. WETLANDS SHOWN UPON THESE CONSTRUCTION DOCUMENTS (IF ANY) ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. CURRENT AND/OR FUTURE LAND OWNERS MAY BE SUBJECT TO LAW ENFORCEMENT FOR DISTURBANCE TO THESE WETLANDS AREAS WITHOUT PROPER AUTHORIZATION.
- 2. THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. NO LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A STATE WATER BUFFER UNLESS A BUFFER VARIANCE HAS BEEN OBTAINED FOR THIS PROJECT.

UTILITY LOCATION:

- 1. THE CONTRACTOR SHALL LOCATE UTILITIES BY CALLING (TOLL FREE) 811 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN ON THIS PLAN. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION. THE OWNER SHALL COORDINATE WITH EASEMENT AND UTILITY OWNERS PRIOR TO COMMENCING CONSTRUCTION.
- 2. ALL EXISTING UTILITIES, UTILITIES EASEMENTS, AND UTILITY RIGHT-OF-WAY MAY NOT BE DEPICTED ON THESE DRAWINGS. UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN (IF ANY) ARE APPROXIMATE ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY ALL UTILITY LOCATION. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
- 3. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
- 4. UTILITY OWNERS SHALL BE NOTIFIED IN ADVANCE OF THE WORK

- 1. THE CONTRACTOR MUST PROTECT DRAINAGE STRUCTURES DURING CONSTRUCTION. ONCE A PIPE IS PLACED, ADDITIONAL PROTECTIVE FILL MAY BE NEEDED OVER STORM DRAIN PIPES DURING THE CONSTRUCTION PROCESS.
- 2. ALL PIPE THAT IS PART OF A ROADWAY DRAINAGE SYSTEM, IF ANY, SHALL BE 14 GAUGE MINIMUM BCCMP UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS
- 3. PIPE SHALL TO BE INSTALLED PER GA DOT STD 1030D.
- 4. CORRUGATED METAL PIPE, IF SHOWN, SHALL BE INSTALLED IN LENGTHS TO PREVENT JOINTS FROM BEING LOCATED UNDER THE PAVEMENT.
- 5. ALL DROP INLETS SHALL BE PER GA DOT STD OR OTHER ACCEPTABLE DESIGN MODIFIED WITH A RAISED WEIR INLET AND A METAL CLEAN OUT COVER.
- 6. ALL HEADWALLS SHALL BE CONSTRUCTED PER GA DOT STANDARDS.
- 7. ALL CATCH BASINS SHALL BE CONSTRUCTED PER GA DOT STD 1033D OR 1034D. UNLESS AN ALTERNATE DETAIL IS PROVIDED.
- 8. ALL FLARED END SECTIONS SHALL BE PER GA DOT STD 1120.
- 9. ALL JUNCTION BOXES SHALL BE PER GA DOT STD OR OTHER ACCEPTABLE DESIGN MODIFIED WITH A METAL CLEAN OUT COVER.

EROSION AND CONTROL:

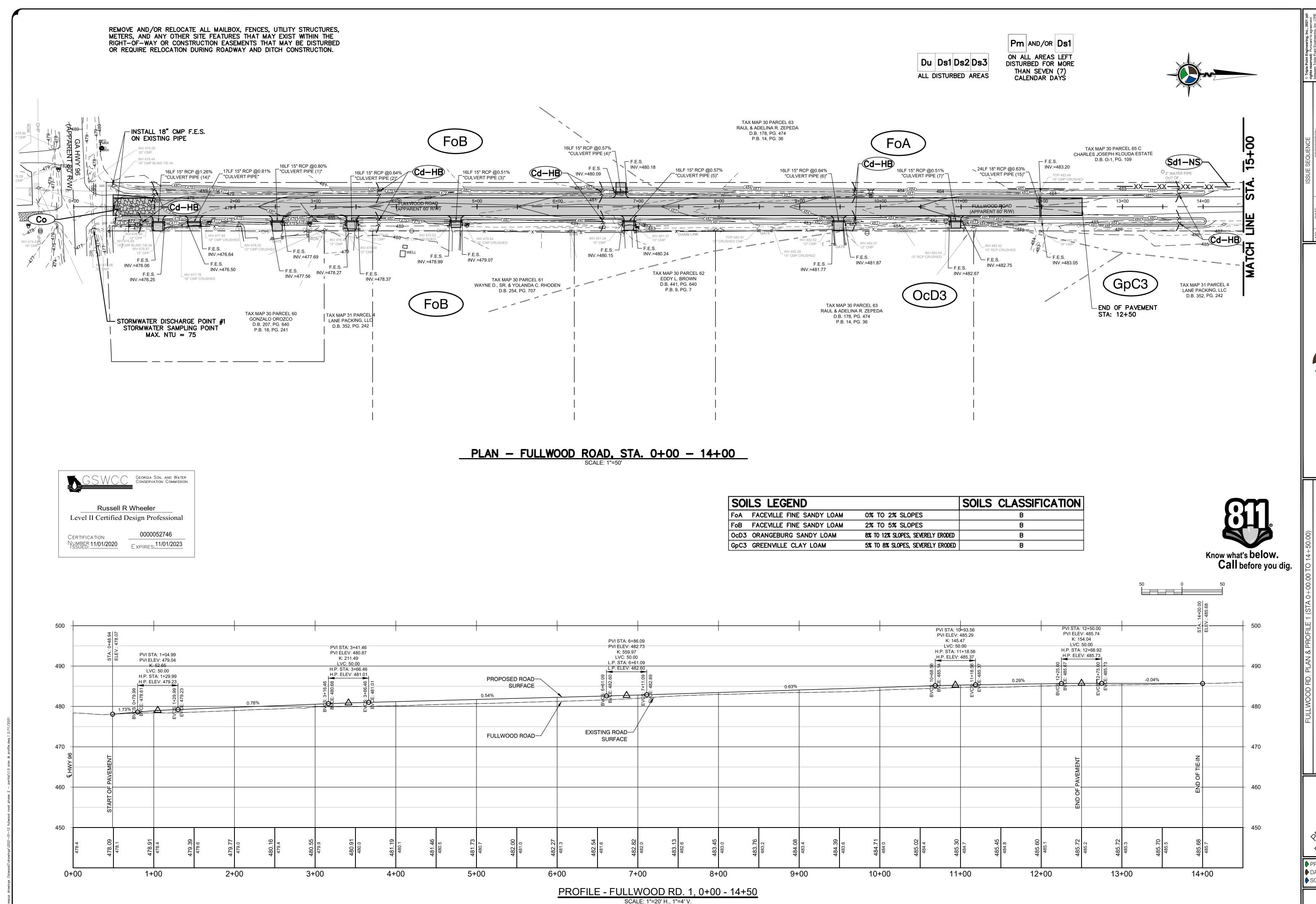
- 1. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL INSPECTOR. GRADING SHALL NOT BE INITIATED UNTIL SILT BARRIER INSTALLATION AND SEDIMENT CONTROL FACILITIES ARE CONSTRUCTED.
- 2. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- 3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA AND IN CONFORMANCE WITH LOCAL ORDINANCES.
- 4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH SITE ENTRY/EXIT. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THEY MAY REQUIRE PERIODIC REPAIR AND/OR TOP DRESSING WITH STONE.
- 5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS.
- 6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND SEDIMENT STORAGE DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 7. STORM DRAIN SYSTEMS SHALL BE PROTECTED AND MAINTAINED SUCH THAT THEY REMAIN CLEAN AND FREE OF SILT AND DEBRIS.
- 8. SEEDING SPECIFICATIONS AND APPLICATION RATES ARE SHOWN IN THIS PLAN. ANY SUBSTITUTIONS WILL REQUIRE APPROVAL OF THE LOCAL GOVERNMENTAL AGENCY AND THE OWNER.
- 9. EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY NEED TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION TO THE ENGINEER.



SIONE

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PROJECT NO.: PCO 030 DATE: FEBRUARY 9, 2021 SCALE:

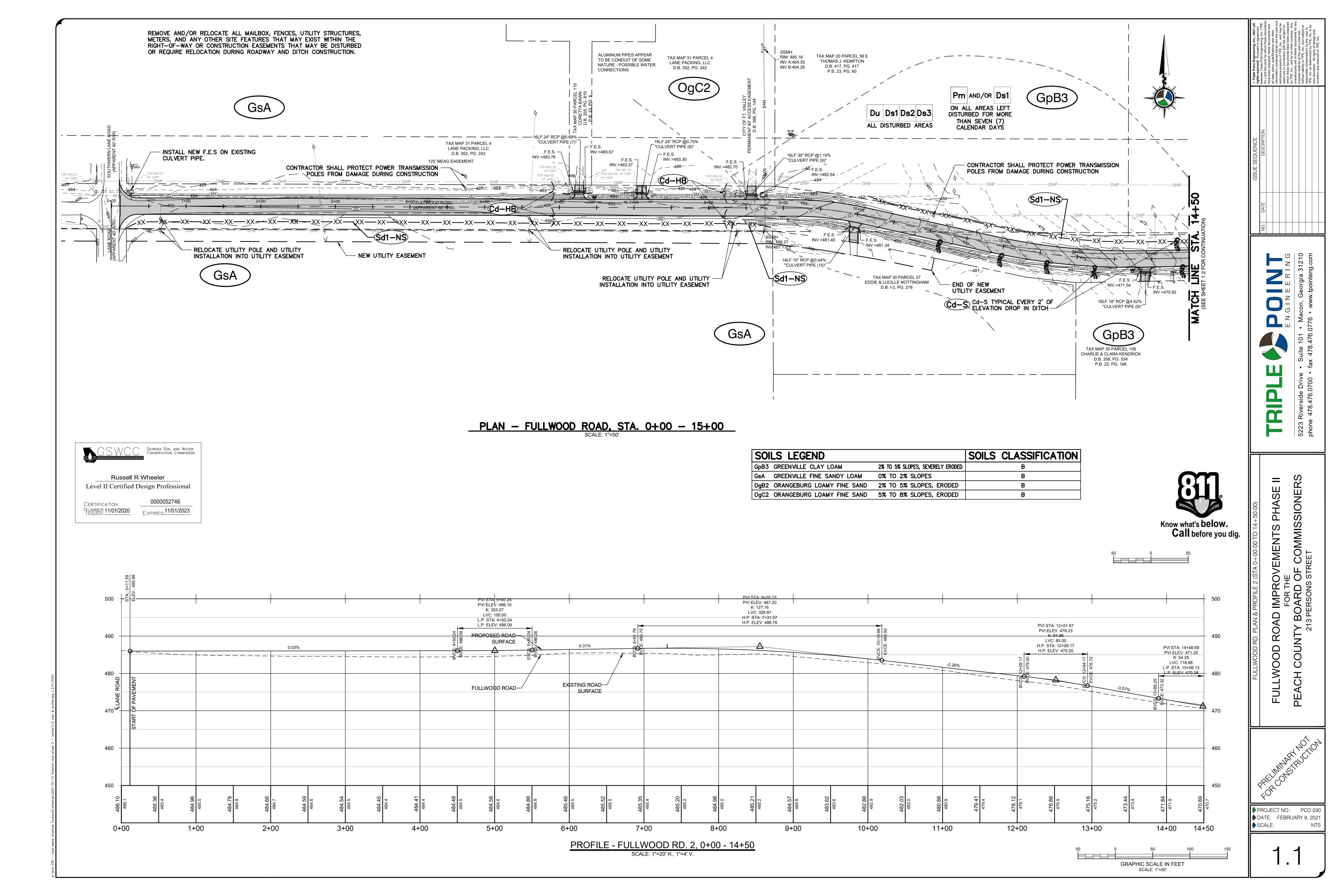


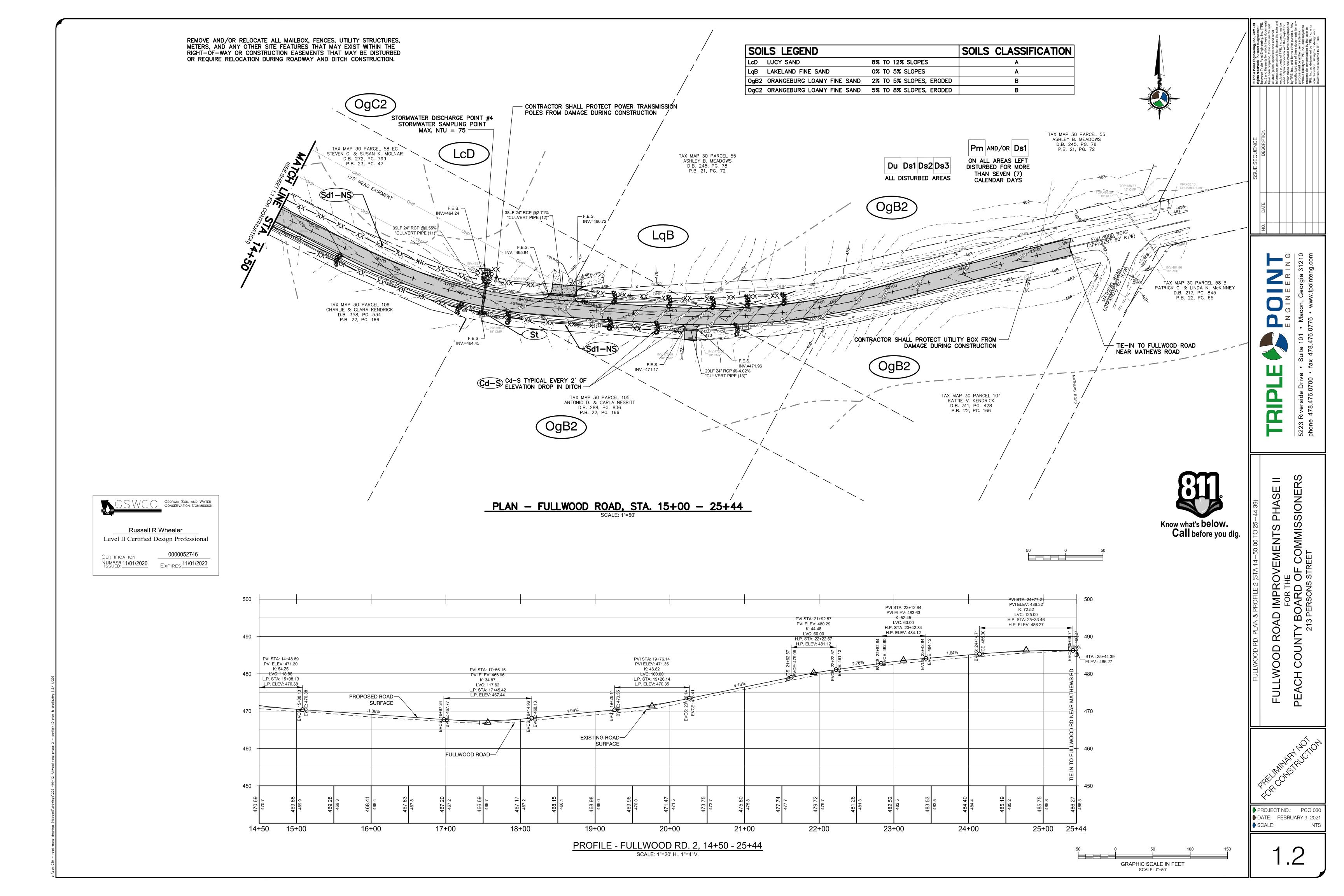
COMMISSIONERS = PHASE D ROAD IMPROVEMENTS F FOR THE JNTY BOARD OF COMMISS 213 PERSONS STREET PEACH COUNTY E

FULLWOOD

PROJECT NO.: PCO 030 DATE: FEBRUARY 9, 2021 SCALE:

GRAPHIC SCALE IN FEET





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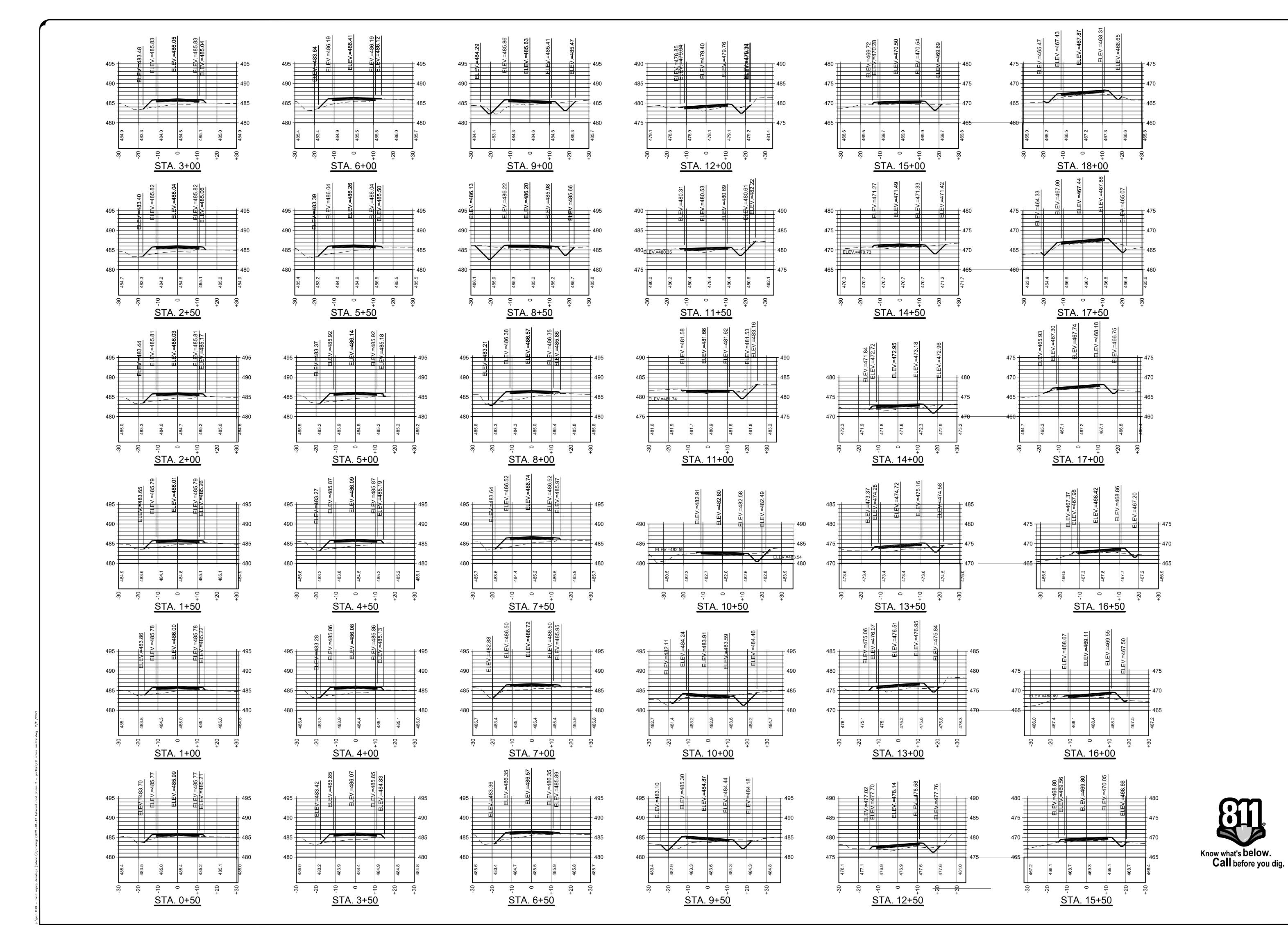
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COMMISSIONERS PHASE II OOD ROAD IMPROVEMENTS
FOR THE
COUNTY BOARD OF COMMIS
213 PERSONS STREET PEACH

▶ PROJECT NO.: PCO 030
 ▶ DATE: FEBRUARY 9, 2021
 ▶ SCALE:1" = 20' H/ 1" = 10' V

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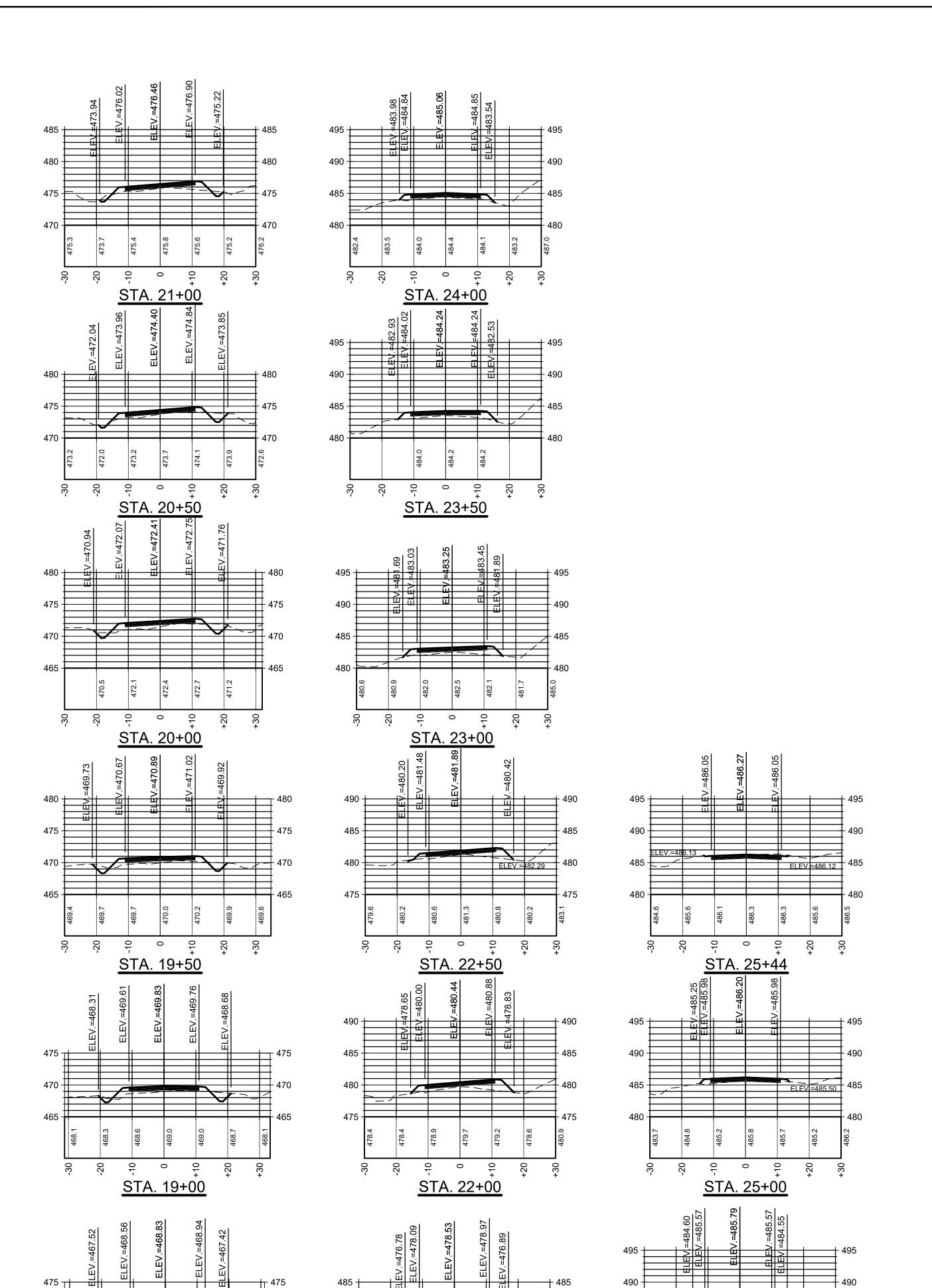
5223 Riverside Drive • Suite 10 phone 478.476.0700 • fax 478.47

FULLWOOD ROAD IMPROVEMENTS PHASE II
FOR THE
PEACH COUNTY BOARD OF COMMISSIONERS
213 PERSONS STREET

PRELIMINARY NOTION

PROJECT NO.: PCO 030
DATE: FEBRUARY 9, 2021
SCALE:1" = 20' H/ 1" = 10' V

2.1

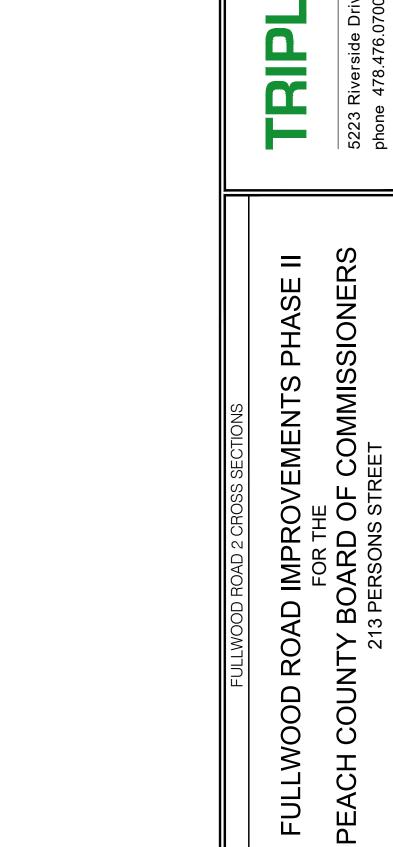


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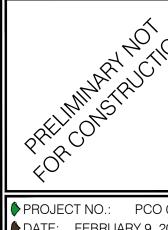
475 -

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▶ PROJECT NO.: PCO 030
 ▶ DATE: FEBRUARY 9, 2021
 ▶ SCALE:1" = 20' H/ 1" = 10' V

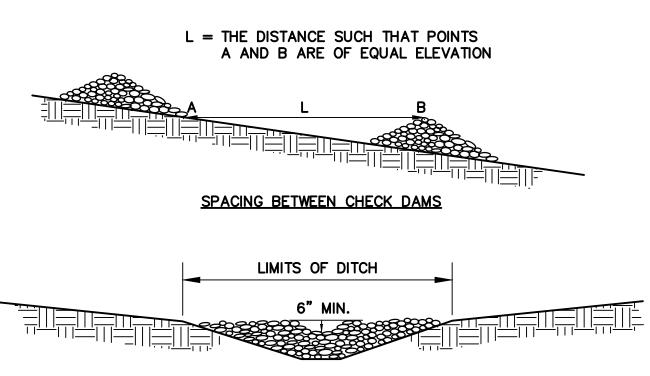
STARTING AND COMPLETION DATES ARE APPROXIMATE AND ARE NOT INTENDED TO BE CONTRACTUAL.

TEMPORARY STRUCTURES

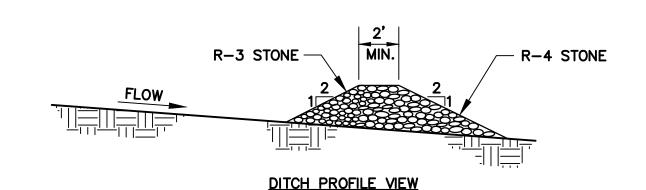
CONTROL STRUCTURES

MAINTENANCE OF EROSION

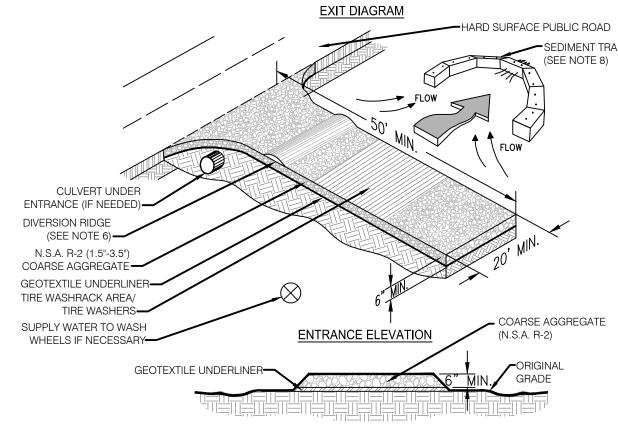
TEMPORARY GRASSING TO BEGIN 2 WEEKS FROM INITIAL DISTURBANCE.



DITCH CROSS SECTION VIEW

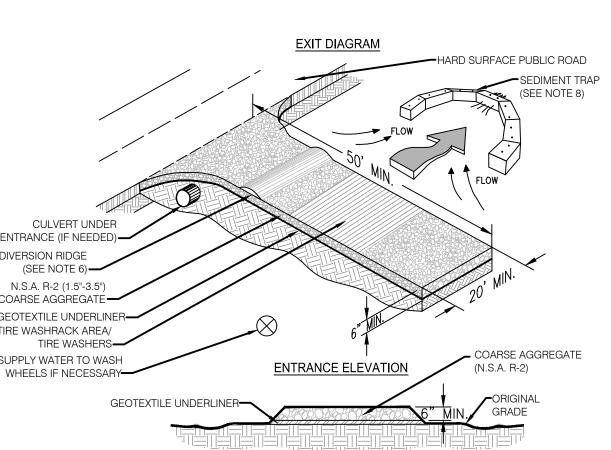


DETAIL - ROCK CHECK DAM



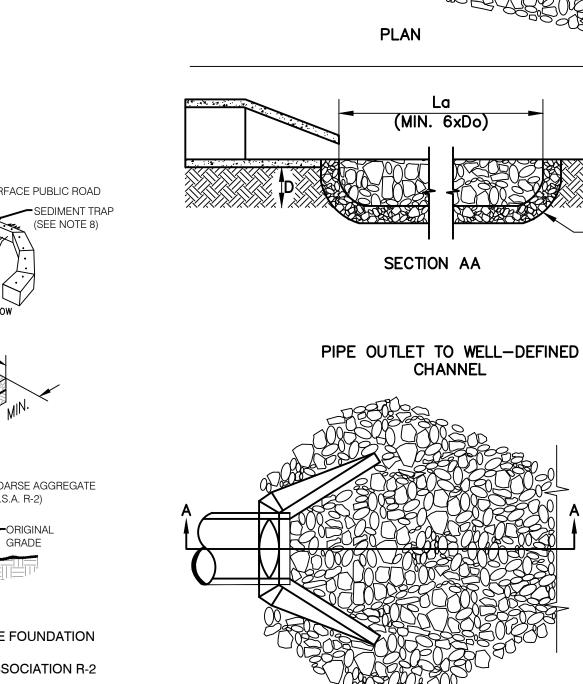
- AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2
- 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT
- 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS
- 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT
- SEDIMENT CONTROL DEVICE). 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL
- PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR

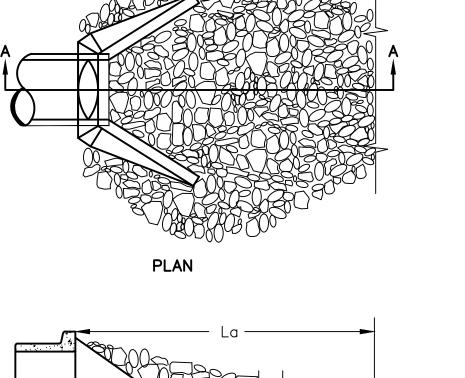




- 1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION
- 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
- **GREATER THAN 2%.**
- BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A
- SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT. 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO
- CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.







PIPE OUTLET TO FLAT AREA NO

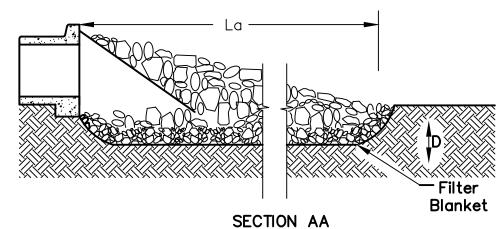
WELL DEFINED CHANNEL

PLAN

(MIN. 6xDo)

SECTION AA

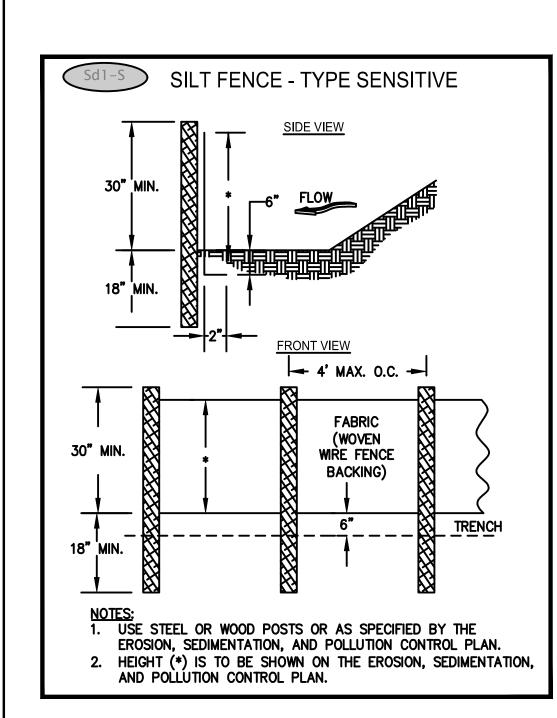
CHANNEL

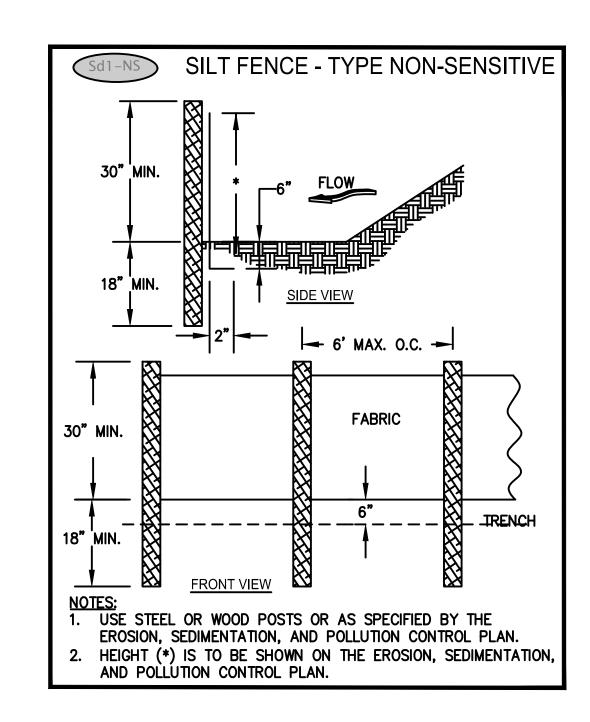


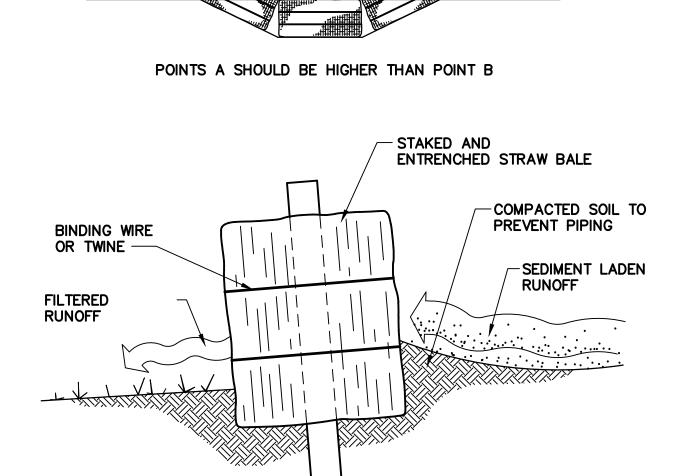
St DETAIL - STORM DRAIN OUTLET PROTECTION

N.T.S.

Blanket







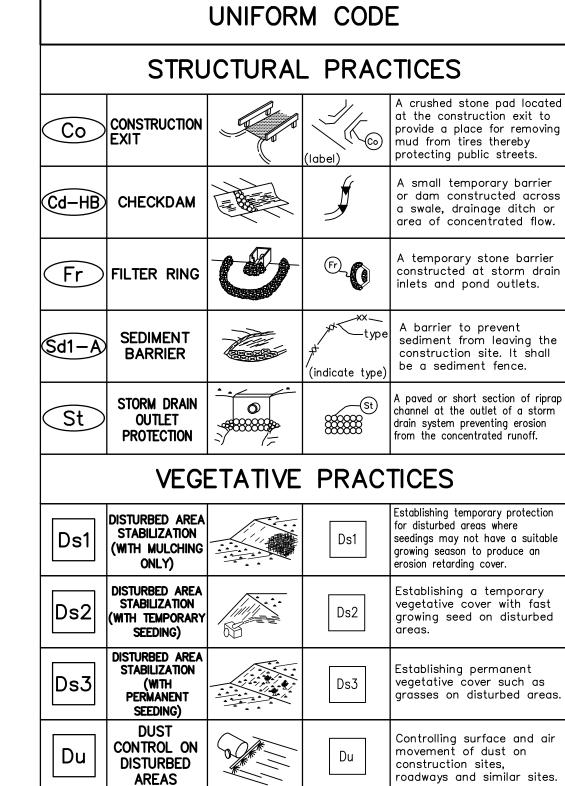


1. La IS THE LENGTH OF THE RIP RAP APRON.

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".

3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAIL-WATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.

4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.



DUST SHALL BE CONTROLLED ON THIS SITE BY APPLYING A WATER SPRAY TO Du DISTURBED AREAS AS NEEDED.

MULCHING RATES:

Ds1 dry straw or hay -spread st a rate of 2 1/2 tons per acre. Wood WASTE, CHIPS, SAWDUST, OR BARK -SPREAD 2 TÓ 3 INCHES DEEP. EROSION CONTROL MATTING OR NETTING -APPLY IN ACCORDANCE WITH MFG. REC'S. CUTBACK ASPHALT. SLOW CURING - APPLY AT 1200 GALLONS PER ACRE. POLYETHYLENE FILM - SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR PROTECTION.

TEMPORARY VEGETATIVE SPECIFICATIONS;

Ds2 TEMPORARY GRASSING SHALL BEGIN 2 WEEKS FOLLOWING INITIAL DISTURBANCE. SPECIES **DATES** 1000 SQ.FT. **ACRE** 3.9 POUNDS 3 BU. 9-1 TO 1-1 RYE GRASS, 1 POUND 40-50 lbs. 9-1 TO 4-15 ANNUAL SUDAN GRASS 1.4 POUNDS 60 lbs. 4-1 TO 10-1 1 POUND 4-1 TO 7-15 40 lbs. TOP MILLET

4.1 POUNDS 3 BU.

PE	PERMANENT VEGETATIVE SPECIFICATIONS:							
	GRASS	SEEDING RATE	PLANTING DATES	FERTILIZER RATE				
	- · · · · · · · · · · · · · · · · · · ·			N	Р	K	Yea	r Per Acre
H	HULLED COMMON BERMUDA	8lbs./Ac	3-1 TO 6-15	6	1:	2 12	1st	. 1500 Lbs.
ι	UNHULLED COMMON BERMUDA	10lbs./Ac 10-1 TO 3-1 SAME AS			ABOVE			
PENSACOLA BAHIA		60 Lb/Ac	Year Round	SAME AS ABOVE				
	MULOU 0 4 /0 TON /A -							

10-1 TO 1-1

MULCH - 2 1/2 TON/Ac.LIME - 1 TON/Ac.

WHEAT

"FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.





SIONERS COMMIS: OUNT \ddot{o} PEACH

PROJECT NO.: PCO 030

DATE: FEBRUARY 9, 2021

SCALE:

STORMWATER DISCHARGE FROM THIS SITE IS PERMITTED AND GOVERNED BY NPDES GENERAL PERMIT NO. GAR 100002. THE SAMPLING. RECORD KEEPING. AND INSPECTION REQUIREMENTS OF THE PERMIT ARE THE RESPONSIBILITY OF THE PRIMARY PERMITTEE, AND ARE HEREBY INCORPORATED INTO THIS PLAN. IT IS THE RESPONSIBILITY OF THE OWNER TO CONTACT THE ENGINEER AT 478-342-1214 TO NOTIFY HIM OF THE START OF LAND DISTURBING ACTIVITIES. THE PRIMARY PERMITTEE IS RESPONSIBLE FOR SUBMITTING A NOTICE OF TERMINATION ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

1. These notes are taken from the Erosion, Sedimentation, and Pollution Control Plan Checklist for infrastructure construction projects as published by the Commission on January 1, 2021.

2. The Level II certification number and seal of the certified Design Professional can be found on each sheet pertaining to the ES&PC plan (see sheets 1-1.2,3-3.1).

3. The name and phone number of 24-hour local contact responsible for erosion, sedimentation and pollution controls is MICHAELA JONES,

4. Primary Permittee information: PEACH COUNTY BOARD OF COMMISSIONERS CHAIRMAN: MARTIN MOSELEY SHANITA BRYANT

MEMBER: MEMBER: ROY LEWIS MEMBER: BETTY HILL MEMBER: WADE YODER 213 PERSONS STREET FORT VALLEY, GEORGIA 31030 PHONE: (478)825-2535

Phone# 478-827-3532.

5. Total acreage of project area: ±10.74 Acres Disturbed acreage of project area: ±10.74 Acres

6. The GPS location of the construction start for the site is Latitude 32.556867° N, Longitude 83.84025° W and end for the site Latitude 32.562853° N, Longitude 83.820494° W

7. The initial and/or revision date of this plan is depicted on the title block of each plan sheet. A notation shall be made on the plan of any revisions to the plan, the date of revision, and the entity that requested the revisions.

8. The construction activity includes BMP installation and maintenance, ditch, driveway and road paving over existing unpaved

9. A vicinity map showing site's relation to surrounding areas is depicted on the Title Sheet of this plan.

10. The project receiving waters include unnamed tributaries of Big Indian Creek. Sensitive areas include these waterways and downstream agricultural areas.

11. 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 direct supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Russell R Wheeler Level II Certified Design Professional

UMBER 11/01/2020

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PAGE 5 OF 7

For this site, reports shall be provided to: WEST CENTRAL DISTRICT OFFICE GEORGIA ENVIRONMENTAL PROTECTION DIVISION 2640 SHURLING DRIVE MACON, GA 31211-3576 (478) 751-6612

32. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI of General NPDES Permit No. GAR100002:

a. A copy of all Notices of Intent submitted to EPD;

b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by GAR 100002; c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5 of GAR

d. A copy of all sampling information, results, and reports required by GAR 100002; e. A copy of all inspection reports generated in accordance with Part IV.D.4.a of GAR 100002;

f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2 of GAR

g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of GAR 100002.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

33. Storm water samples shall be retrieved from the sampling points as indicated on Sheets 1.0-1.2 of this plan. The samples must be representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

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

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

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

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

12. 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 100002. Russell R Wheeler 2/9/2021 Design Professional

13. "I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial or intermittent stream and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgement, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

14. The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5 within 7 days after installation. It is the contractor's responsibility to notify the engineer when the perimeter control BMPs are in-place.

15. Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

16. No buffer encroachments will occur with this project. A buffer variance is not required.

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. These items include, but are not limited to, check dams (Cd), retrofitting (Rt), silt fence (Sd1), storm drain outlet protection (St).

18. Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit. No section 404 permit has been obtained for this development.

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.

20. Erosion control measures shall be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the

21. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

22. This construction activity will discharge storm water into, or within one linear mile of a Biota Impaired Stream Segment. The runoff from this project enters the Bay Creek segment from its headwaters to Beaver Creek, which has been designated as "Not Supporting Designated Uses" for Bio F, FC, and DO, Category 4a, by the 2010 integrated 305(b)/303(d) List, page A-215. The following four additional BMPs from Appendix 1 of Permit No. GAR100002 will be implemented:

Item d. Place a large sign (minimum 4 feet x 8 feet) on the site visible from the roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s).

Item e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance wtih Part III.D.1. of the NPDES Permits. (See Sheets C1.0-C1.5.)

Item r.1 Certified personnel 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.(2).(A)-(C) of this permit.

Item 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.

Peach County is addressing the requirements of the Implementation Plan. Additionally, paving Fullwood Road reduces the amount of sediment exposed to runoff, thereby reducing the TMDL to Bay Creek.

23. A TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment. By submitting this ESPCP Plan,

24. Concrete truck washout location shall be in a temporary truck wash area located at the site entrance. Washout shall be contained within a pit or trench with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the

breaking of material into small amounts for trash disposal or removal from the site to an appropriate landfill. Paint and/or other chemicals shall be stored in secured facilities with restricted access to employees only. Cleanup and disposal of this material shall be in accordance with all recognized local and federal requirements. All disposal shall be in approved off site waste facilities

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

(6) Manual or automatic sampling may be utilized. Samples required by this plan should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Samples are not required to be cooled.

(7) Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this plan must be reported to EPD.

(8) Samples taken for the purpose of compliance with this plan shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

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

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

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

(12). The samples should be kept free from floating debris.

classified to accept that material.

Sheet flow that flows onto undisturbed natural areas or areas stabilized by the project is not required to be sampled. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures, at least 70% of the soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation appropriate for the Final stabilization applies to each phase of construction.

34. In accordance with Appendix B, the maximum NTU's from the outfall shall not exceed 75 NTUs. The turbidity was selected for a site size of 10.74 acres and a drainage basin <4.99 square miles in a warm water fishery.

35. The sampling locations are depicted on Sheet 1.0-1.2 of this plan.

36. This plan combines all three phases of erosion control into the construction plan and profile sheets for the road paving. Initial Phase: Place perimeter silt fence.

Intermediate Phase: Place ditch haybales, maintain BMP's. Final Phase: Remove initial and intermediate BMP's after final stabilization.

37. A graphic scale and north arrow are depicted on Sheets 1.0-1.2.

38. Existing and proposed contour lines are depicted on Sheets 1.0-1.2. Contour lines are drawn at an interval of 1'. The existing contour lines are based on a compilation of aerial survey performed by Metro Engineering and Surveying and field run topography by Strange Land Surveyors.

PAGE 3 OF 7

25. All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site. All petroleum spills and leaks shall be remediated immediately. The flow must be stopped, contained, and affected soils removed. In the event of a spill or leak, contact First Environmental Nationwide toll free at (888) 720-1330.

26. The following measures will be installed during construction to control pollutants in stormwater after construction operations have been completed. Grassing will be installed.

27. Stored building materials shall be covered with a tarp on site at the material staging area selected by the contractor. PRODUCT SPECIFIC PRACTICES

petroleum based products- containers for products such as fuels, lubricants, and tars shall be inspected daily for leaks and spills. this shall include onsite vehicles and machinery. Equipment maintenance areas shall be located away from state waters, natural drains, and storm water drainage inlets. in addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants to soil and water is prohibited.

Paints/finishes/solvents- all products shall be stored in tightly sealed original containers when not in use. excess product shall not be discharged to the storm water collection system. excess product, materials used with these products, and product containers shall be disposed of according to manufacturers specifications and recommendations. Refer to paragraph 25 for activities related to spills and leaks. Concrete truck washing- no concrete trucks shall be allowed to wash out or discharge surplus concrete or drum wash water onsite. if present,

contractors can utilize the concrete truck washdown to clean chutes, hoppers, wheelbarrows, and hand tools on site. Fertilizer/herbicides- these products shall be applied at rates that do not exceed the manufacturers specifications or above the guidelines set forth in the crop establishment or in the gswcc manual for erosion and sediment control in georgia. Any storage of these materials shall be

Building materials- no building or construction materials shall be buried or disposed of onsite. all such material shall be disposed of in proper waste disposal procedures.

28. Silt Fence, checkdams, dust control, constructions exits, temporary grassing, and permanent grassing shall be used to reduce pollutants in storm water discharges from the construction site.

29. A 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 BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization) is depicted on Sheet 3.0 of this plan.

30. Inspections:

a. Permittee requirements. (1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site

sediment tracking. These inspections must be conducted until a Notice of Termination is submitted. (2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For

areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is 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 (5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion,

Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection. construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall

be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a 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.

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39. No alternate BMP's are proposed in this plan.

40. No alternate BMP's are proposed in this plan.

41. No state waters lie within the proposed project area.

42. No state waters are located within 200' of the project site. 43. Delineation and acreage of contributing drainage basins are shown on this sheet.

44. Delineation of on-site drainage and off-site watersheds are shown on this sheet.

45. The pre-construction curve number is estimated to be 73. The post-construction curve number is estimated to be 87.

46. Storm-drain pipe at station 17+49 velocities is 9.05 for a 25yr storm event. The stormwater discharge points are identified on Sheets 1-1.2 of this plan.

47. Soil series and their delineation are depicted on 1-1.2 of this plan.

48. The limits of disturbance for this phase of construction is the entirety of the areas depicted within the road rights-of-way or the area shown within the dashed heavy gray line and labeled "limits of construction, limits of disturbance", as shown on Sheets

49. This project extends a city street. Silt fence is proposed down slope in locations where it can be effective. Haybale check dams and rock checkdams are located in ditches throughout the project where applicable. The installation of additional sediment traps and/or sediment basins are unnecessary. Sediment can also be captured and stored using silt fence and haybale and rock check dams. Sediment storage capacities are as follows:

Silt fence: Assume ½ of the silt height (28"/2 = 14") can be used as storage and sediment is stored 16' from the silt fence. Then the sediment storage per linear foot of silt fence is:

Sediment storage per L.F. of silt fence = $\frac{1}{2}(16)(14/12) = 9.33$ c.f. Total length of silt fence on project = 2,604 L.F.

Total C.Y. of sed. storage in silt fence = $(9.33 \text{ c.f.})(2,604 \text{ L.F.})/27 \approx 899.83 \text{ C.Y.}$

Hay Bale and rock check dams: Assume trapezoidal ditch with 2' wide bottom, 2:1 sideslopes, 18" high, and stores 16' of sediment in the ditch. Then: Sediment storage per check dam = 0.5(0.75)(16)2+2(0.5)(1.5)(0.75)(16)/3 = 18 c.f. per check dam

Number of check dam on project = 31 Total C.Y. of sed storage capacity in check dams = (18 c.f.)(31)/27 ≈ 20.67 C.Y.

Total number of disturbed acres = 10.74 acres Sediment storage required = 67 C.Y. per acre x 10.74 acres ≈ 719.58 C.Y.

Total sediment storage provided = 899.83 + 20.67 ≈ 920.50 C.Y.

50. Best management practices depicted on Sheets 1-1.2of this plan are consistent with the requirements of the *Manual for* **Erosion and Sediment Control in Georgia**. The legend for the BMP's can be found on Sheet 3.0 of this plan.

51. Detailed drawings for all structural practices are depicted on Sheet 3.0 of this plan. The installation of these practices must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

52. A vegetative plan, noting temporary and permanent vegetative practices, is depicted on Sheet 1-1.2 of this plan.

31. Sampling Frequency:

location, whichever comes first:

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving

water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible. (2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the

permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after

the beginning of the stormwater discharge.

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

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

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

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

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

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

Sampling shall be collected by "grab samples" performed in accordance with the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

Sample analysis shall be performed in accordance with the methodology and test procedures established by 40 CFR Part

Reporting of Sampling Results:

DRAINAGE BASIN

ONTO SITE (135

The Primary Permittee is required to submit a summary of the monitoring results to the Regional EPD office by the fifteenth day of the month following the reporting period. For a monitoring period during which no qualifying rainfall events occur, a monitoring report must be submitted stating such. Monitoring periods are calendar months. Monitoring results shall be in a format as prescribed by EPD.

QUADRANGLE LOCATION MAP

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ONTO SITE (124

PROJECT NO.: PCO 030

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DATE: FEBRUARY 9, 2021 SCALE