TIMOTHY ROAD SHARED USE PATH - SECTION II

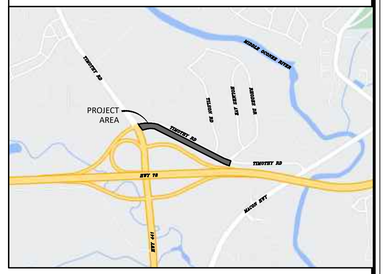
FOR ATHENS-CLARKE COUNTY DEPARTMENT OF LEISURE SERVICES

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		1	95

PROJECT DATA

LENGTH OF PROJECT	0.45 MILES	
	SIDEWALK	TOTAL
NET LENGTH OF MULTI-USE TRAIL	0.45	0.45
NET LENGTH OF BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	0.45	0.45
NET LENGTH OF EXCEPTION	0.00	0.00
GROSS LENGTH OF PROJECT	0.45	0.45
PERCENT LENGTH OF PROJECT COUNTY		100%
THIS PROJECT IS LOCATED WITHIN CONGRESSIONAL DISTRICT 10		
THIS PROJECT IS LOCATED WITHIN ATHENS-CLARKE COUNTY		

LOCATION MAP



N.T.S.

N.T.S.

Begin	
Latitude	33.918136 N
Longitude	83.403393 W
End	
Latitude	33.916990 N
Longitude	83.392726 W

DISTURBED AREA = 1.78 AC
A NOI IS REQUIRED

NOTE:
PROJECT TO BE CONSTRUCTED AS PER GEORGIA DOT STANDARD SPECIFICATIONS, 2021 EDITION AND 2016 STANDARD SUPPLEMENTAL SPECIFICATIONS, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND AS MODIFIED BY CONTRACT DOCUMENTS.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION AND/OR THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY.

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DEREK DOSTER
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ATHENS, GA. 30603
706-613-3025

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

SUBMITTED BY VICTOR A. CONOVER

PLANS COMPLETED	AUGUST 16, 2023
REVISIONS	

INDEX OF SHEETS

SHEET NO.	SECTION	DESCRIPTION
1	01-001	COVER
2	02-001	SHEET INDEX AND REVISION SUMMARY
3	04-001	GENERAL NOTES
4	05-001	TYPICAL SECTIONS
5	06-001	SUMMARY OF QUANTITIES
6-10	13-001 TO 13-005	CONSTRUCTION PLANS
11	17-001	DRIVEWAY PROFILES
12	22-001	DRAINAGE PROFILES
13-20	23-001 TO 23-008	CROSS SECTIONS
21-26	24-001 TO 24-006	UTILITY PLANS
27	40-001	CONSTRUCTION DETAILS
28	50-001	ES&PC COVER
29-33	51-001 TO 51-005	ES&PC GENERAL NOTES
34-40	52-001 TO 52-007	ES&PC LEGEND
41	53-001	DRAINAGE AND SAMPLING LOCATION MAP
42-56	54-001 TO 54-015	EROSION CONTROL PLANS
57	55-001	SOIL MAP
58-65	56-001 TO 56-008	EROSION CONTROL CONSTRUCTION STANDARDS AND DETAILS
66-70	60-001 TO 60-005	RIGHT OF WAY PLANS
71-75	70-001 TO 70-005	TREE MANAGEMENT PLAN
76-95	80-001 TO 80-020	STANDARDS AND DETAILS

REVISION SUMMARY

DATE	REVISED SHEET #	REVISION

GEORGIA DOT EROSION CONTROL CONSTRUCTION STANDARDS & DETAILS

SHEET NO.	GA STD NO.	DESCRIPTION	REVISION DATE
56-001	D-24A	TEMPORARY SILT FENCE	JAN. 2011
56-002	D-24B	TEMPORARY SILT FENCE - BERM DITCH, INSTALLATION, BRUSH BARRIER	JAN. 2011
56-003	D-24C	TEMPORARY SILT FENCE - J-HOOK, INLET SEDIMENT TRAPS	JAN. 2011
56-004	D-24D	TEMPORARY SILT FENCE - FABRIC CHECK DAM	JUL. 2015
56-005	D-35	PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MATS)	JAN. 2011
56-006	D-41	CONSTRUCTION EXIT	NOV. 2020
56-007	D-55A	RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)	APR. 2016
56-008	D-55B	RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)	APR. 2016

ACC STANDARD DETAILS

SHEET NO.	STD NO.	DESCRIPTION
80-001	1-030	CURB & GUTTER DETAIL
80-002	1-060	TYPICAL SIDEWALK CROSS-SECTIONS (EXISTING STREETS)
80-003	1-070	UTILITY CUT AND ADJUSTMENT DETAIL
80-004	2-010	URBAN RESIDENTIAL DRIVEWAY APRON DETAIL

CONSTRUCTION STANDARDS & DETAILS

SHEET NO.	GA STD NO.	DESCRIPTION	REVISION DATE
80-005	1019A	STANDARD DROP INLETS	AUG. 1999
80-006 - 80-008	1030D	CONCRETE AND METAL PIPE CULVERTS	SEP. 2001
80-009	1033D	STANDARD CATCH BASINS	AUG. 1982
80-010 - 80-012	1122	STANDARD SAFETY END SECTIONS	JAN. 2005
80-013	9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	JUL. 2022
80-014	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISC. DETAILS	MAR. 2006
80-015	9107	TRAFFIC CONTROL DETAILS FOR LANE CLOSURE	MAR. 2006
80-016	A-1	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS	JUL. 2011
80-017	A-3	CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS	SEP. 2016
80-018	A-4	DETECTABLE WARNING SURFACES	JUN. 2009
80-019	T-03A	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL	JUL. 2002
80-020	T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT	SEP. 2016

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: SHEET INDEX AND REVISION SUMMARY

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 02-001

GENERAL NOTES:

1. The General Notes are to be supplemented by any and all other notes contained within the Construction Plans.
2. The Contractor shall ensure that a complete set of construction plans is kept on the job site at all times.
3. All work to be done in accordance with the Georgia Department of Transportation "Standard Specifications for Roads and Bridge Construction,"2021 Edition with Supplements and Revisions.
4. The Contractor shall assign and have on site at all times a competent superintendent knowledgeable of the construction techniques required to perform the various types of work being performed. IE Concrete, asphalt, storm drain etc. The Superintendent shall have full authority over all work forces and shall assure all work is performed per specified guidelines, specifications and remains on schedule.
5. The Contractor shall maintain the safety and convenience of the general public and the residents along all affected roadways. The Contractor shall protect their persons and property as specified in Sections 104.05, 107.07, 107.09, and 150.00 of the Georgia Department of Transportation "Specifications for Roads and Bridge Construction," 2021 Edition, with Supplements and Revisions.
6. All persons including subcontractors employed by the contractor shall wear personal protective gear including reflective safety vests while working within the project limits.
7. The Contractor shall install and maintain construction safety fencing in areas of excavation as required and directed by the Project Manager.
8. A staged construction plan for maintaining traffic throughout the project shall be submitted for approval by Owner within 10 days of Notice of Award. The contractor shall provide a detailed traffic control striping and signage plan for each stage of construction.
9. The Contractor shall furnish, install, and maintain all required barricades, signs, and other traffic control devices in compliance with the "Manual on Uniform Traffic Control Devices," 2009 Edition.
10. The Contractor shall apply for all needed street/lane closure permits from A-CC Traffic Engineering 706-613-3460 by noon Thursday prior to the week of work. The street/lane closure week starts on Sunday.
11. Storage of Materials and equipment shall be at locations approved by the Project Manager.
12. Aggregate Surface Course will be considered for payment only when used in temporary driveway construction. Other uses of aggregate surface course or gravel aggregate base shall be considered as Traffic Control.
13. The Contractor shall be responsible for the repair and/or replacement of all damaged property, including but not limited to structures, foundations, driveways, sidewalks, fences and landscape amenities. The Contractor shall protect all landscape amenities and shall be responsible for their relocation and/or replacement during the construction period as required by the Project Manager.
14. The contractor shall use temporary asphalt and or asphalt milling to maintain a safe and smooth riding surface as required by the Project Manager with all costs to be considered as incidental to Traffic Control.
15. The Contractor shall provide and maintain acceptable access to all businesses and residences to include driveways, sidewalks and stair entrances during the construction period as determined by the Project Manager.
16. The Contractor shall be responsible for uninterrupted mail service during the construction period. When necessary, mailboxes shall be temporarily relocated to a location convenient to mail carrier and patron.
17. The Contractor shall be responsible for maintaining uninterrupted utility services to all affected businesses and residences during the construction period. Any and all service interruptions shall be reported to the Project Manager and shall be promptly repaired at the expense of the Contractor.
18. The Contractor shall be required to use the one-call center telephone number, 1-800-282-7411, for the purpose of coordinating the marking of underground utilities.
19. The following utilities may have facilities in the project area:

Charter Communication 495 Hawthorne Avenue Athens, GA 30606 Office: N/A Cell: N/A Contact: Robert Williams robert.williams@charter.com	Atlanta Gas Light P.O. Box 1667 Athens, GA 30603 Office: (706) 549-4512 Cell: (608) 414-1813 Contact: Michael Harrison mharriso@southernco.com	ACC Public Utilities 124 E. Hancock Street Athens, GA 30601 Office: (706) 613-3470 Fax: (706) 613-3476 Contact: Hollis Terry hollis.terry@accgov.com	Georgia Power Transmission 3100 Kilowatt Drive Savannah, Georgia 31405 Phone: (678) 464-3243 Fax: N/A Contact: Melissa Wheeler Black mswheele@southernco.com
AT&T 125 Reese Street Athens, GA 30613 Office: (706) 353-4301 Cell: (706) 548-1621 Contact: Clay Johnson cj3079@att.com	GA Power Distribution 205 Dairy Park Road Athens, GA 30607 Office: (404) 989-5876 Fax: (706) 357-6670 Contact: Stephen Burroughs sburroug@southernco.com	ACC Traffic Engineering 2915 Lexington Road Athens, GA 30605 Phone: (706) 613-3460 Fax: (706) 613-3463 Contact: Tim Griffeth tim.griffeth@accgov.com	Walton EMC 842 US 78 Monroe, Georgia 30655 Office: (770) 267-2505 Fax: (770) 601-2795 Contact: Terry Allgood tallgood@waltonemc.com
Southern Gas Company 10 Peachtree Place Atlanta, Georgia 30309 Office: (404) 548-3176 Cell: (470) 316-6836 Contact: Ginny Mauldin vmauldin@southernco.com	Parker Fiber System 10005 Commerce Street Summerville, GA 30747 Office: (706) 857-4646 Cell: (618) 332-6518 Contact: Preston Watson preston@parkersystems.net	Lumen Technologies 345 Courtland Street Atlanta, GA 30045 Phone: (404) 394-0597 Fax: (720) 678-3493 Contact: Michael Mayes michael.mayes@lumen.com	ACC Meter Management 124 E. Hancock Street Athens, GA 30601 Office: (762) 400-7577 Fax: N/A Contact: James Kethley james.kethley@accgov.com

20. The Contractor shall notify all affected utility companies no later than 72 hours prior to any demolition or construction where water meter/service line adjustments, gas line adjustments and/or manhole adjustment/relocation is required.
21. Contractors performing Water and Sewer type construction shall be on Athens-Clarke County Public Utilities Department, Approved Contractors list.
22. Utility locations shown are approximate and shall be field verified prior to construction. The Contractor shall be responsible for verifying site conditions and the locations of all piping and utility installations, including but not limited to, manholes, boxes and services with respect to each utility. The Contractor shall ensure the protection and maintenance of all utilities and shall be responsible for their repair and replacement if damaged. No additional payment or time shall be considered due to any required work associated with repairs or replacement.
23. The Contractor shall be responsible for determining and resolving conflicts between the work and utilities, both underground and aerial (including poles). Such determinations shall be made in a timely manner to permit adjustments to be made before construction progress is obstructed.
24. Contractor shall submit sketches/shop drawings for resolving utility conflicts to the Project manager for approval and shall coordinate necessary adjustments or relocations with all utility companies involved. No additional payment or time shall be considered due to any required work associated with resolving conflicts with utilities.
25. The Contractor shall notify Athens-Clarke County Traffic Engineering 72 hours before assistance is needed with traffic related items.
26. The Contractor shall strictly adhere to dust control guidelines as set forth in Section 161-Control of Soil and Sedimentation, Sub-section 161.01 Description, of the Georgia Department of Transportation "Standard Specifications for Roads and Bridge Construction." No additional compensation will be made for dust control.
27. The contractor shall install and maintain all soil and erosion control measures as shown on the plans and as required by the Project Manager. The Contractor shall be responsible for maintaining all erosion and sediment control devices at all times and shall at all times be in compliance with the Georgia Department of Transportation "Standard Specifications for Roads and Bridge Construction," 2021 Edition with Supplements and Revisions. Additional erosion and sediment control measures will be installed if deemed necessary by the Project Manager.
28. Erosion Control Check Dams may be Rip-Rap or Baled Straw as determined applicable by the Project Manager.
29. As a minimum the contractor shall apply temporary Mulch to all cut and fill slopes within 5 days of grading and shall perform temporary grassing within two weeks of grading.
30. All disturbed areas outside the limits of construction are to be restored and grassed in kind by the contractor at his expense, with grass or sod, I.E. Fescue for Fescue, Bermuda Sod for Bermuda Sod, Zoysia for Zoysia, etc.
31. It shall be the Contractor's responsibility to legally dispose of any unsuitable or waste material.
32. Vertical and horizontal checks shall be performed to verify accuracy of all survey control points and referenced coordinates. Any discrepancy shall be resolved prior to commencing with the project layout.
33. Additional survey control points will be established and protected outside the construction limits every 500 LF. prior to beginning construction.
34. All property line monuments outside the construction limits disturbed in the prosecution of the work shall be reset by a professional land surveyor licensed by the State of Georgia, at the Contractor's expense.
35. The grades of all ditches and culverts shall not be less than 1% unless otherwise shown on the Plans.
36. All Storm drains and side drains shall be graded to drain.
37. All Storm and Side drain pipe shall be Type III, Reinforced Concrete Pipe.
38. All Catch Basins and Drop Inlets are to be brick masonry type and built in place or precast concrete. However; should precast concrete structures be used by the contractor, then the contractor shall be responsible for any changes to or re-fabrication of the structures due to field adjustments for conflicting utilities. Must meet GDOT specifications.
39. Covers for all 1033 and 1034 type Catch Basins shall be GDOT Standard and shall include the Athens-Clarke County Storm Water logo as can be provided by U.S. Foundry & Mfg. Corp., Atlanta branch, 404 696 8810
40. Hoods for all 1019 type Drop Inlets shall be GDOT Standard and shall include a environmental stream logo with verbiage "No Dumping- Drains to Stream" or similar.
41. Covers for all 1011A Storm Sewer Manholes shall be GDOT Standard and shall include the Athens-Clarke County Storm Water logo as can be provided by U.S. Foundry & Mfg.
42. All new storm drain to have a minimum of 4 inches of clearance over water mains. Alternatively the storm drain shall be placed under the water main.
43. All new storm drain pipes crossing over sanitary lines with less than 12" of clearance will require concrete pipe supports.
44. Any and all Concrete Collars shall be considered incidental to the associated pay item.
45. All abandoned pipes are to be capped or plugged using brick and mortar or 8" thick concrete. This work is part of and considered incidental to the work of the associated pay item.
46. Concrete used for Concrete Trench Cap and Concrete Base or Pavement Widening shall be of the following Types and required curing times prior to normal traffic loading.
    --- Class B cured a minimum 14 days
    --- Class AA1 with Type III cement cured minimum 72 hours.
    --- GDOT Accelerated Strength Concrete cured minimum 12 hours
    --- Concrete found receiving traffic loading prior to the above cure times will be rejected. No added compensation shall be added for Class AA1 or GDOT Accelerated Strength Concrete when it is used to allow earlier traffic loading to expedite the work, roadway excavation and/or milling operations. Tops of all new storm sewer manholes shall be left below roadway grade and protected until final surface course has been installed. This work shall be considered part of an incidental to the associated pay item.
47. All manhole, catch basin, and drop inlet bottoms shall meet GDOT Standards and Details with the exception that brick bottoms shall not be allowed.
48. All Storm Sewer Trench cap shall be 8 inch thick concrete overlayed with 2 inches min. of Temporary Asphalt until final paving phase of project at which time the Temporary Asphalt will be milled and replaced with permanent asphalt, thickness and type specified on plans.
49. Corrugated metal pipe remaining under the pavement shall be filled with flowable fill.
50. All existing Sanitary and Storm Sewer Manholes and water valve boxes shall be referenced, lowered and protected prior to roadway excavation and/or milling operations. Tops of all new storm sewer manholes shall be left below roadway grade and protected until final surface course has been installed. This work shall be considered part of and incidental to the associated pay item.
51. Before the commencement of the work, the contractor shall establish existing pavement elevations throughout the project limit by collecting pavement elevation shots between the existing edge of pavement at 20 feet interval. Pavement shots shall be taken at each edge of pavement as well as every break in pavement slopes between pavement edges.
52. Electronic Message Boards shall be installed 5 business days prior to start of construction to advise and inform the public, and shall remain on site through the duration of the project. Two message boards are required and the cost shall be incidental to Traffic Control.
53. No lane closures will be permitted on Friday after 12:00 PM or on Saturday the week of a UGA home football game or UGA Graduation.
54. Final adjustment of manholes and water valve boxes shall be performed after the final surface course has been installed. The contractor shall reference and lower water valves and manholes below proposed grade prior to pavement removal.
55. Rock encountered in trench line excavation that requires blasting to excavate, shall be paid for as Rock Excavation. Contractor shall excavate rock utilizing up to a 75,000 LB excavator equipped with rock buckets, hammer/breakers, rippers or other attachments before resorting to the use of blasting. Rock requiring the use of an excavator larger than 75,000 lb equipped with aforementioned attachments will be paid for as Rock Excavation.
56. Where wet conditions and unstable foundation materials are encountered in trench lines, Foundation Backfill Material will be used at a depth directed by the Project Manager and shall be paid for as Foundation Backfill Material Type II.
57. When unsatisfactory non-compactable backfill material is encountered in trench lines as determined by the Project Manager, Type I Back Fill Material will be used and paid for as Section 206, Borrow Excavation.
58. Layout of curb and gutter, sidewalk, driveways and checking of vertical and horizontal alignment of associated forms shall be performed by the contractor and inspected by the Project Manager. Such inspections shall be requested in a timely manner to permit adjustments if necessary prior to installation of concrete.
59. Existing pavement will be saw cut by the Contractor, as shown on the plans and as directed by the Project Manager, to provide a smooth and even tie-in for the placement for the new pavement surface. The saw cutting is incidental to the cost of associated pay item.
60. The contractor shall use Forest Best Management Practices and shall be governed by the Athens-Clarke County Code of Ordinance,Title 8, Chapter 8-7 with special attention given to18- (h) 1,2,3 and can be accessed on line at http://www.athensclarkecounty.com/documents/code/index.htm
61. The contractor shall be responsible for any damage to trees that are scheduled to remain throughout the Work, inside and bordering the temporary and permanent easements. Special care shall be taken so as not to break limbs, scar the bark, or cut/damage tree roots during construction. The Project Manager shall meet with the contractor prior to beginning of clearing and designate and mark trees which will remain throughout the Proiect.
62. Tree Protection fencing shall be placed outside the critical root zone of all trees where possible. Instructions from the Project Manager will be obtained if this is not possible.
63. No equipment shall be parked or operated on any root zone of trees along the construction area. Roots encountered during excavation shall be neatly cut.
64. Any tree damage shall be reported immediately to the Project Manager who in turn will report it to the Community Forester.
65. Adjustments to water meter box and traffic pull boxes shall be considered part of and incidental to the associated pay item. Water Meter Boxes remaining in the sidewalk will be centered over the shut off valves.
66. Removal and resetting of signs and/or necessary temporary signage required, will be considered incidental to work. Contractor must coordinate locations or relocate signs with ACCUG Traffic Engineering (706-613-3460). Any removed signs must be delivered to Traffic Engineering at 2795 Lexington Rd.
67. All curb and gutter requires the installation of compacted Graded Aggregate Base matching typical section dimensions prior to forming and placement of concrete.
68. All curb and gutter that is to be removed and replaced shall be removed and replaced to the nearest full Joint. Transition proposed curb and gutter as to assure a smooth tie-in. No separate payment.
69. Contractor to align all water proposed inlets with weir perpendicular to swale/ditch sections.
70. All driveways that are to be reconstructed will be paved back to the tie in point or required right of way. Whichever is greater. All driveways over 11% in grade should be paved with concrete unless otherwise noted in the plans. All other driveways should be replaced as follows: asphalt for asphalt, concrete for concrete, and asphalt for earth/gravel drives. Residential drives should be 14 feet wide at the throat unless noted otherwise in the plans. Commercial drives should be 24 feet wide unless noted otherwise in the plans. Existing driveway locations are shown from the best available data: the contractor should construct driveways to match the location of existing driveways at the tie in point, if applicable. The contractor should obtain the approval from the engineer prior to making any revision to location, width, and/or number of drives to be constructed. Drives should be constructed using:

- Residential:

    Asphalt - Recycled Asph Conc 12.5 mm Superpave
    Graded Aggregate Base, 6 in
    Concrete - Driveway Concrete, 6 in Thick
    (Urban Shoulder) Conc Valley Gutter, 6 in

71. All new concrete paths and graded tie in areas shall drain freely.
72. Layout of the trail and setting of elevations shall be performed by the Contractor and approved by the Project Manager prior to commencement of grading.
73. Clearing, excavation, and haul of any unsuitable material from trench lines, embankments, or other gradients will be considered incidental to the work of the associated pay item.
74. All fill material shall be placed in lifts of no more than 6 inches loose and compacted to 95% of the theoretical dry density.
75. Embankment or fill material used in conjunction with building shoulders or base fill for sidewalks will be borrowed from a site within the Project with no additional compensation. When suitable material cannot be obtained from a site within the Project, Contractor shall, upon approval from the Project Manager, provide borrow from off site with payment made as GDOT 206 Borrow Excavation Incl. Material. Borrow shall be measured by volume of the hauling vehicle per GDOT Section 109 - Measurement and Payment.
76. Contractor shall field mark limits of disturbance prior to beginning clearing operations and arrange for the owner to inspect the site to determine minor adjustments to facilitate preserving trees. The Athens-Clarke County Landscape Management Administrator in coordination with the project owner/manager shall have the authority to inspect the tree protection fencing and make adjustments to the tree protection fencing at any time during the construction operations to facilitate the preservation of trees.
77. All trail signs are to be mounted on 4"x4" wood posts. The placement of the signs must comply with Figure 9B-1 in the Manual on Uniform Traffic Control Devices (MUTCD).
78. The concrete path centerline shall be striped with a 5" Skip Yellow Thermoplastic Traffic Stripe.
79. All concrete path markings shall be thermoplastic.
80. Sawcut joints shall be spaced equal to the width of the trail section.
81. Expansion joints shall be spaced every 60 feet.
82. Grading Complete pay item includes, but is not limited to: Clearing and Grubbing, placement and compaction of fill material, subgrade preparation, cut excavation, rock excavation, hauling, rough grading, and fine grading.

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS-CLARKE COUNTY, GA

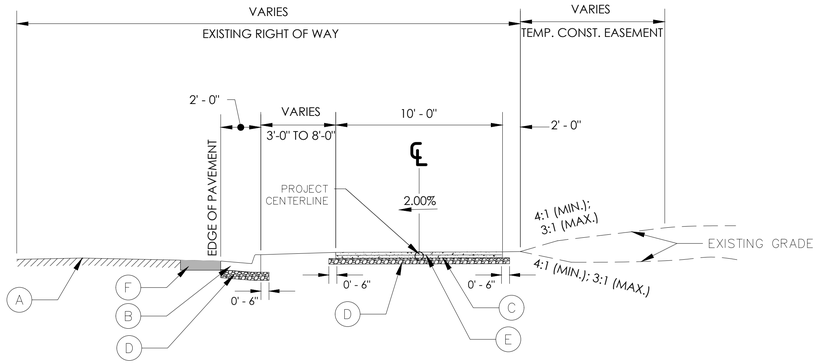
SHEET TITLE: GENERAL NOTES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

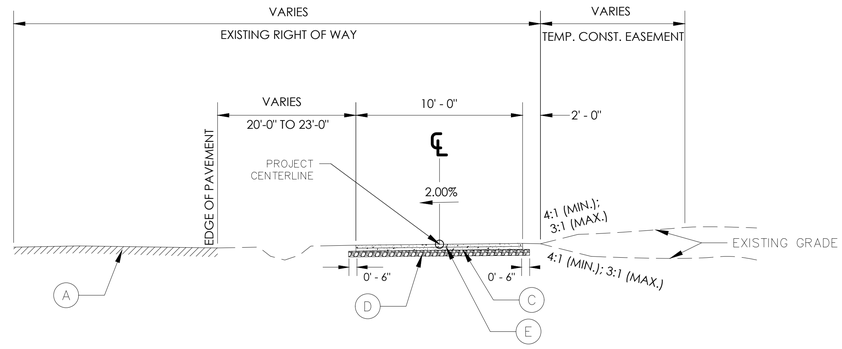
PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

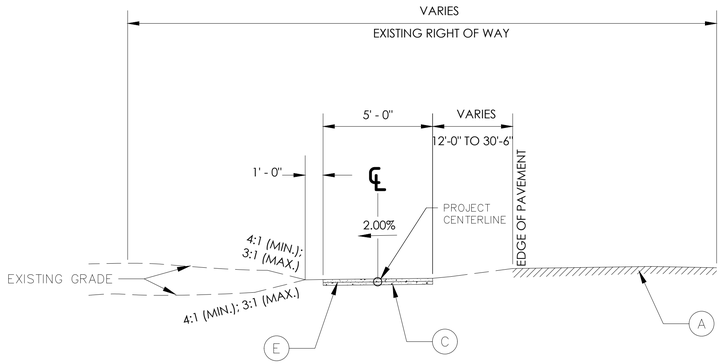
Sheet: 04-001



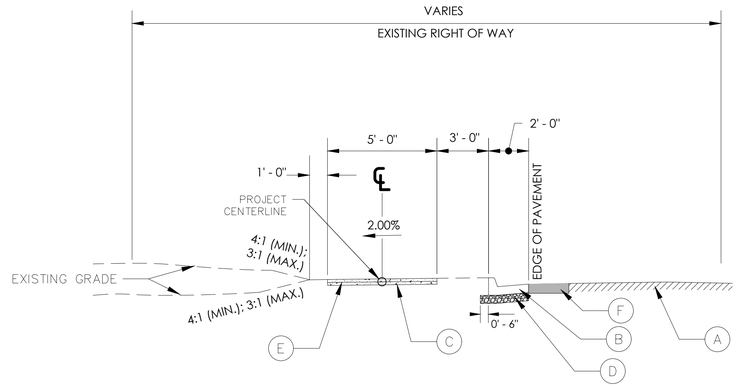
TYPICAL SECTION 1
TIMOTHY ROAD
STA 100+30 TO 104+42



TYPICAL SECTION 2
TIMOTHY ROAD
STA 104+42 TO 120+62



TYPICAL SECTION 3
TIMOTHY ROAD
STA 120+85 TO 122+13



TYPICAL SECTION 4
TIMOTHY ROAD
STA 122+13 TO 123+50

REQUIRED PAVEMENT LEGEND

- (A) EXISTING ASPHALT ROADWAY
- (B) NEW CONC. CURB AND GUTTER, 6 IN X 24 IN, TYPE 2, GDOT DETAIL 9032B
- (C) NEW CONCRETE PATH, 4 IN THICK
- (D) GRADED AGGREGATE BASE, 6 IN THICK
- (E) WOVEN WIRE MESH, 6 IN X 6 IN X 10 GAUGE
- (F) CLASS B CONCRETE WIDENING PER ACC DETAIL 1-030

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: TYPICAL SECTIONS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
05-001

CONSTRUCTION ITEMS		
ITEMS	UNIT	QTY
EXCAVATION - ROCK	CY	20
BORROW EXCAVATION, INCL MATL	CY	50
FOUNDATION BACKFILL MATL, TP II	CY	300
GR AGGR BASE CRS, INCL MATL	TN	860
AGGR SURF CRS	TN	15
RECYLCED ASPH CONC 9.5 MM SUPERPAVE, TYPE II BLEND 1, INCL BITUM MATL AND H LIME	TN	30
BITUM TACK COAT	GL	15
DRIVEWAY CONCRETE, 6 IN TK	SY	200
CONC SIDEWALK, 4 IN (WITH WELDED WIRE MESH)	SY	2250
CONC SIDEWALK, 8 IN (FOR ADA RAMP)	SY	120
CONC SIDEWALK, 8 IN (FOR BUS STOP PAD)	SY	10
CONC VALLEY GUTTER, 6 IN	SY	60
CONCRETE CURB & GUTTER, 6 IN X 24 IN, TP 2	LF	530
CLASS B CONC, BASE OR PVMT WIDENING	CY	25
WATER MAIN, 8 IN	LF	30
GATE VALVE, 8 IN	EA	2
WASTE RECEPTACLE UNIT	EA	1
DETECTABLE WARNING SURFACE	SF	100
BENCH	EA	1
BUS SHELTER	EA	1
SCHEDULE HOLDER	EA	1
SOLAR LIGHT	EA	1

STANDARD SIGN QUANTITIES				
STATION	OFFSET	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY - DOUBLE SIDED	REMOVE SIGN	RESET SIGN
		EA	EA	EA
101+80.36	5.98' LT		1	1
103+55.55	6.91' LT		1	1
117+72.27	11.63' LT		1	1
120+60.99	8.61' LT	1		
120+87.04	10.50' RT	1		
122+68.20	9.01' LT		1	1
TOTAL		2	4	4

SIGNING AND MARKING ITEMS		
ITEMS	UNIT	QTY
REMOVE SIGN	EA	4
RESET SIGN	EA	4
SKIP, TRAFFIC STRIPE, 5 IN, YELLOW	GLF	2080
THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	60
THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	1250
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	EA	2

STORM DRAIN QUANTITIES									
STRUCTURE NUMBER			PROFILE SHEET NUMBER	STORM DRAIN PIPES	STORM DRAIN STRUCTURES				
	STATION	OFFSET		18 IN RCP, CLASS III	18" SAFETY END SECTION, GDOT DETAIL 1122	DROP INLET, GROUP 1, GDOT DETAIL 1019A	CATCH BASIN, GROUP 1, GDOT DETAIL 1033D	CATCH BASIN, GROUP 1, ADDITIONAL DEPTH	
				LF	EA	EA	EA	LF	
A1	100++48.00	21.75' RT	22-001	49	1				
A2	101+00.72	7.63' LT	22-001	86			1	1.23	
A3	101+85.35	8.61' LT	22-001	104			1	2.44	
A4	102+87.49	6.69' LT	22-001	90			1	4.14	
A5	103+76.39	6.86' LT	22-001	96			1	2.57	
A6	104+70.07	14.25' LT	22-001			1			
			TOTAL	425	1	1	4	10.38	

TEMPORARY GRASSING AND EROSION QUANTITIES												
TEMPORARY GRASSING	MULCH	TEMPORARY SILT FENCE, TP A	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	CONCTRUCT AND REMOVE RIP RAP CHECK DAMS	MAINTENANCE OF CHECK DAMS	CONSTRUCT AND REMOVE INLET SEDIMENT TRAPS, SD2-P	MAINTENANCE OF INLET SEDIMENT TRAPS, SD2-P	CONSTRUCTION EXIT	MAINTENANCE OF CONSTRUCTION EXIT	BARRIER FENCE (ORANGE), 4 FT - TREE PROTECTION	WATER QUALITY MONITORING AND SAMPLING	WATER QUALITY INSPECTIONS
AC	TN	LF	LF	EA	EA	EA	EA	EA	EA	LF	EA	MO
1.25	50	1140	1140	5	5	5	5	2	2	2020	2	18

PERMANENT GRASSING AND EROSION QUANTITIES
GRASSING INCLUDING FERTILIZER AND LIME
SY
5800

TRAFFIC CONTROL	LUMP SUM
CLEARING AND GRUBBING	LUMP SUM
GRADING COMPLETE	LUMP SUM
TESTING - RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	LUMP SUM

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REV. NO.	DATE	REVISION DESCRIPTION BLOCK

ATHENS–CLARKE COUNTY, GA

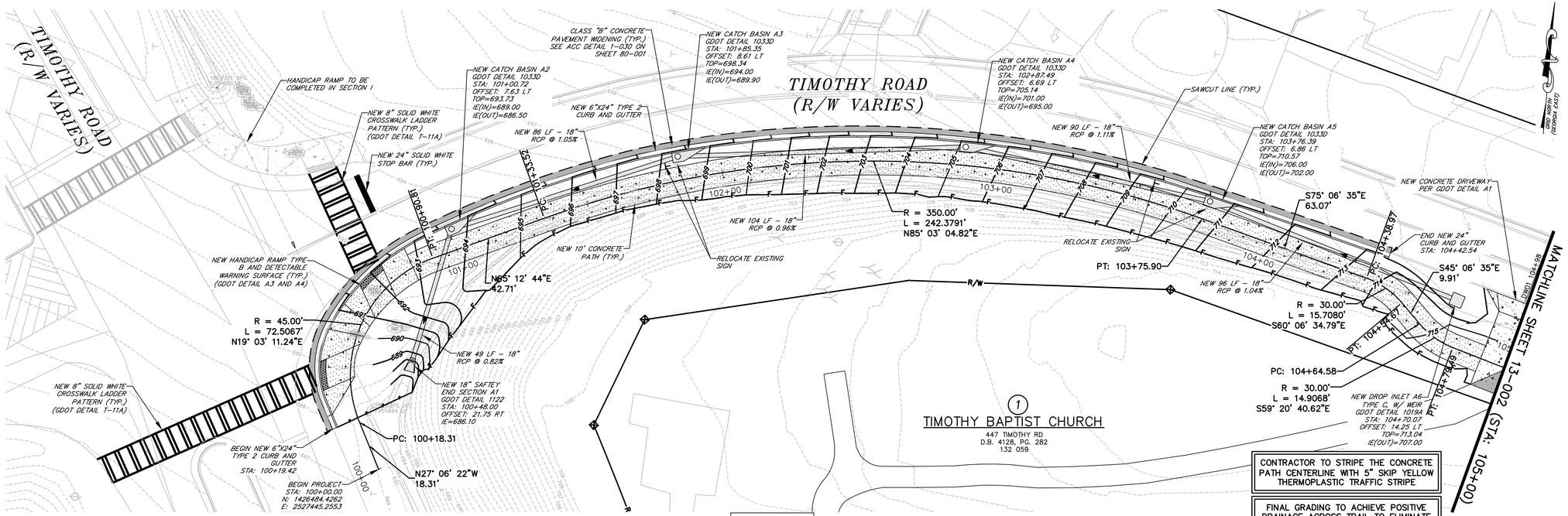
SHEET TITLE: SUMMARY OF QUANTITIES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

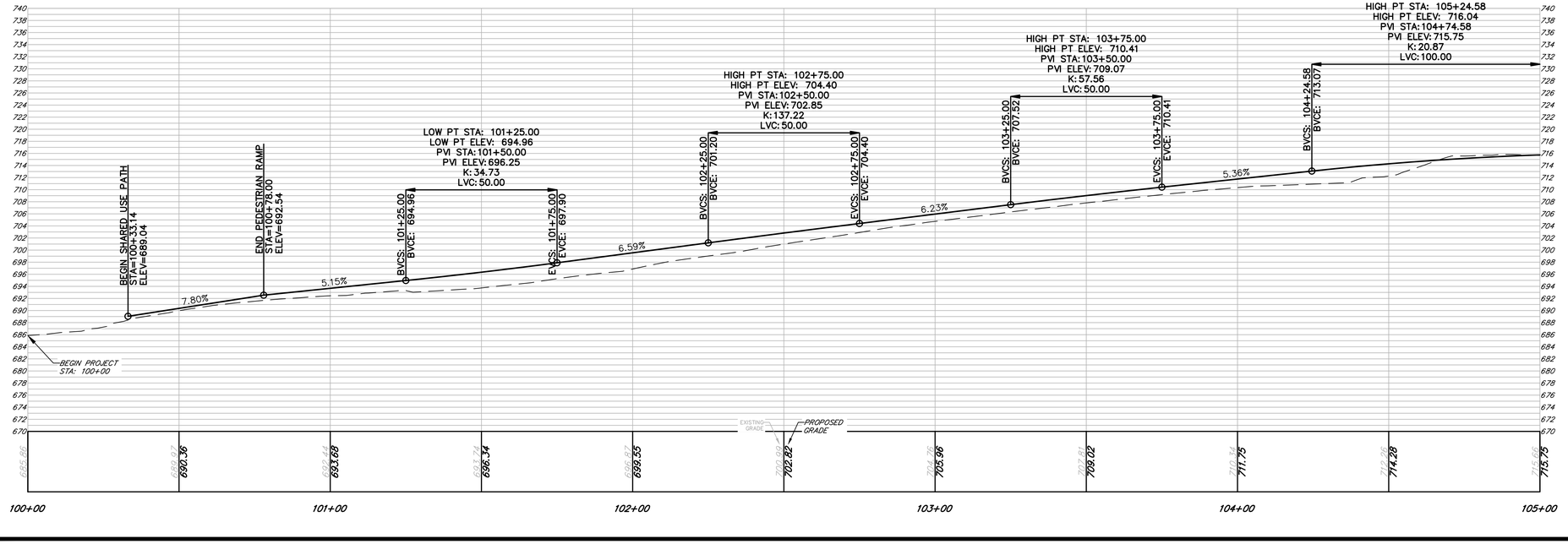
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 06-001



1" = 20'

H: 1" = 20'
V: 1" = 10'



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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

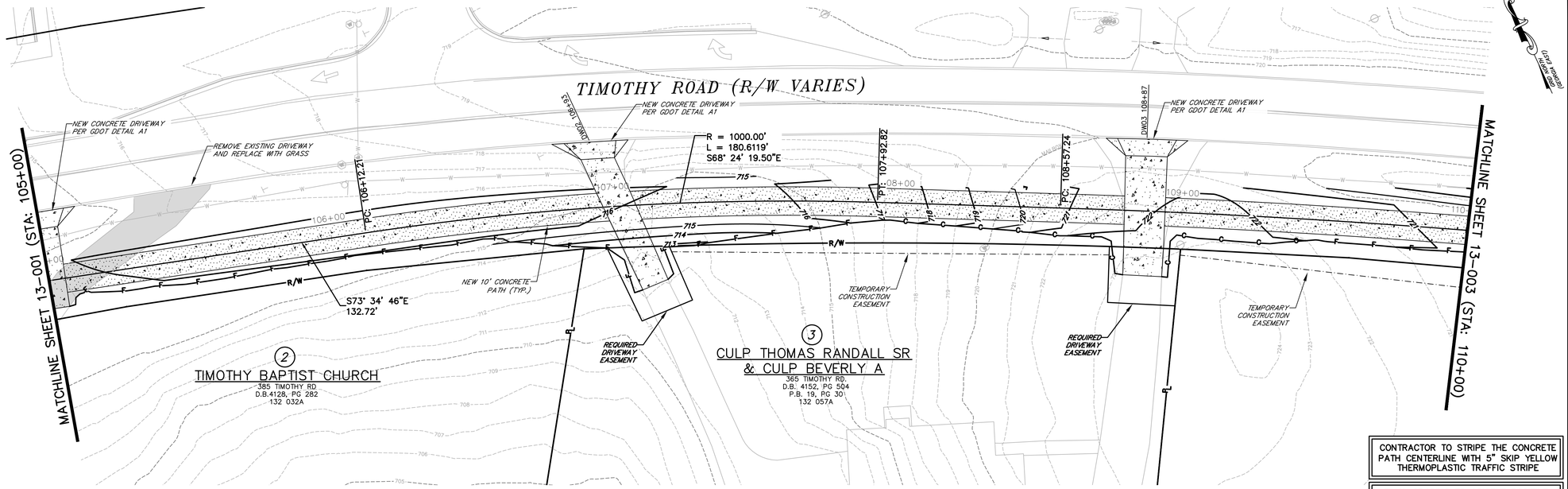
SHEET TITLE:
CONSTRUCTION PLAN AND PROFILE

PROJECT NAME
TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
13-001

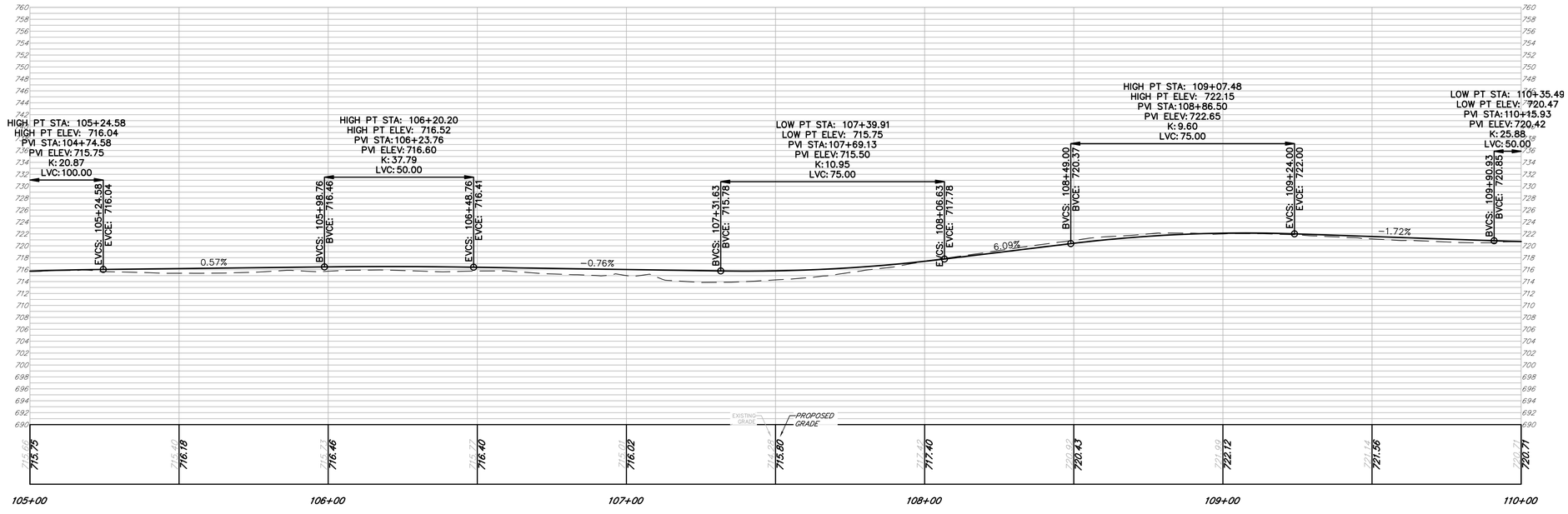


CONTRACTOR TO STRIPE THE CONCRETE PATH CENTERLINE WITH 5" SKIP YELLOW THERMOPLASTIC TRAFFIC STRIPE

FINAL GRADING TO ACHIEVE POSITIVE DRAINAGE ACROSS TRAIL TO ELIMINATE PONDING

1" = 20'

H: 1" = 20'
V: 1" = 10'



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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

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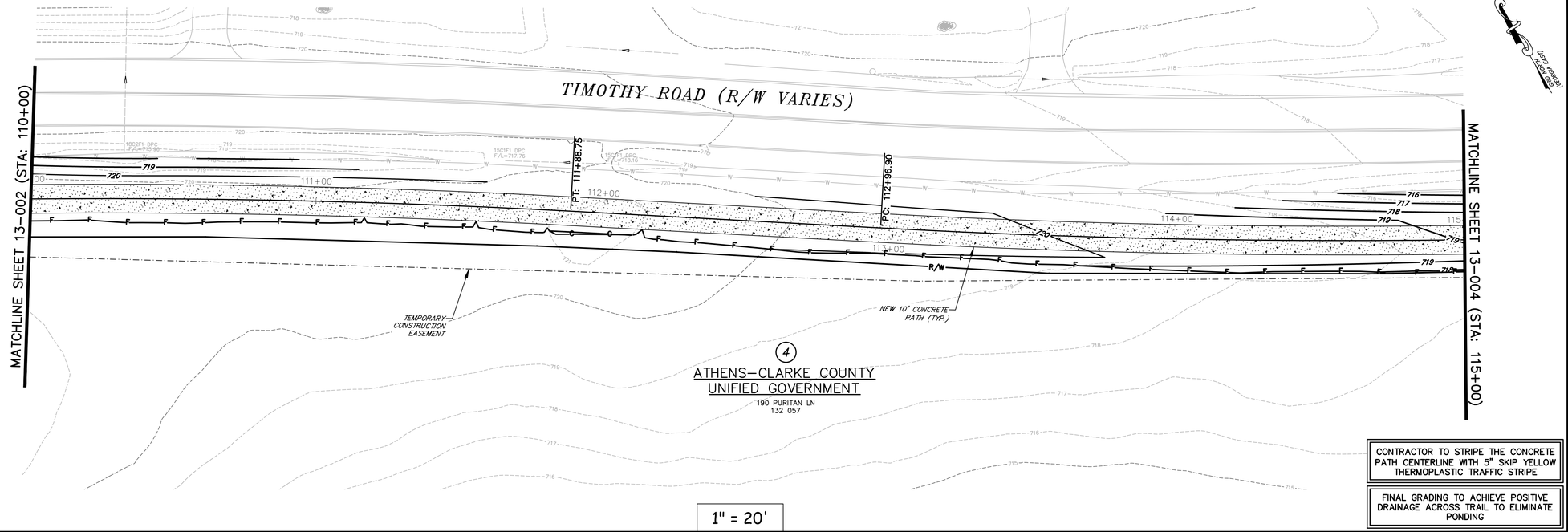
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 13-002



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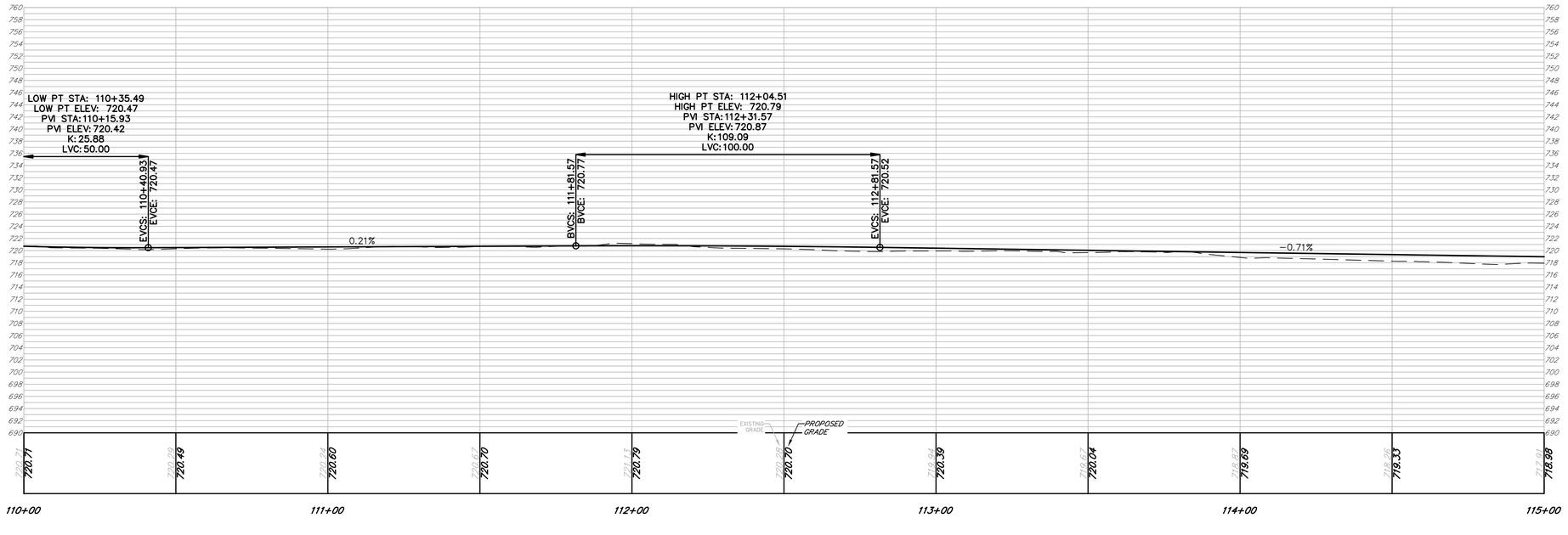

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
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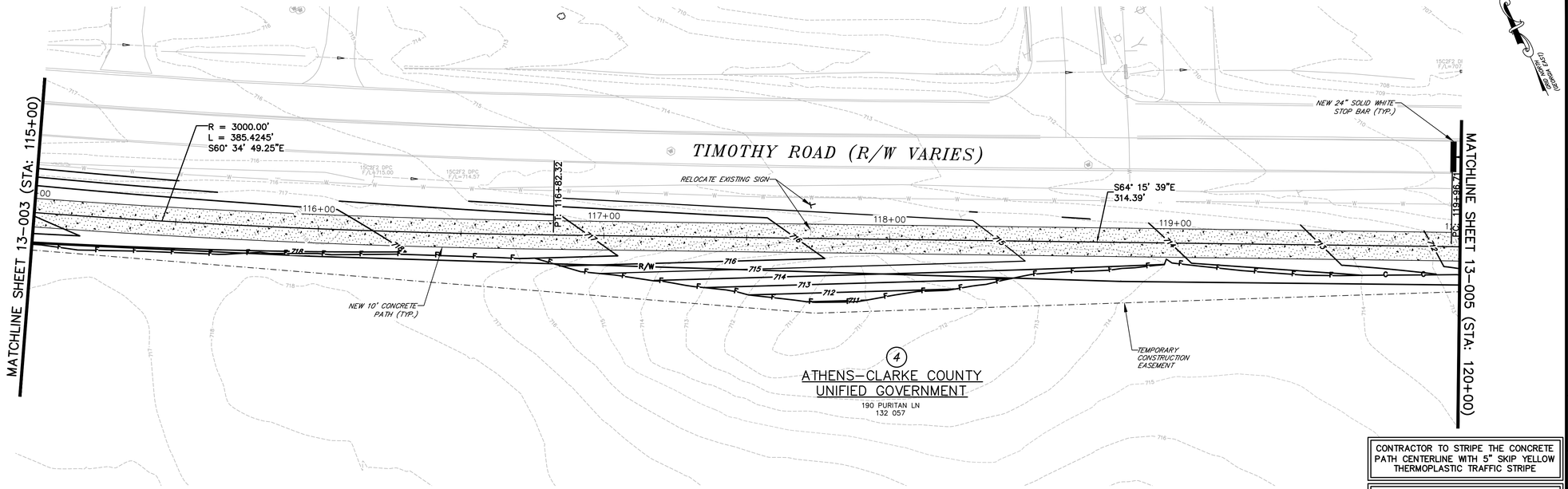
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
13-003



CONTRACTOR TO STRIPE THE CONCRETE PATH CENTERLINE WITH 5" SKIP YELLOW THERMOPLASTIC TRAFFIC STRIPE

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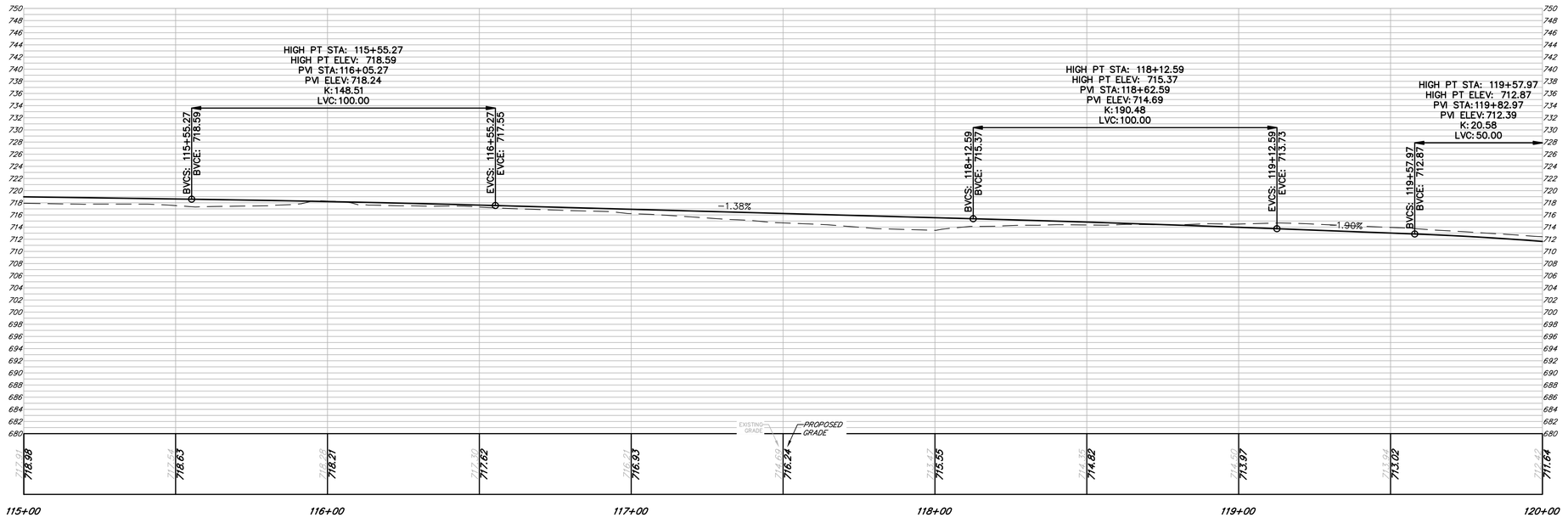
V: 1" = 10'



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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION
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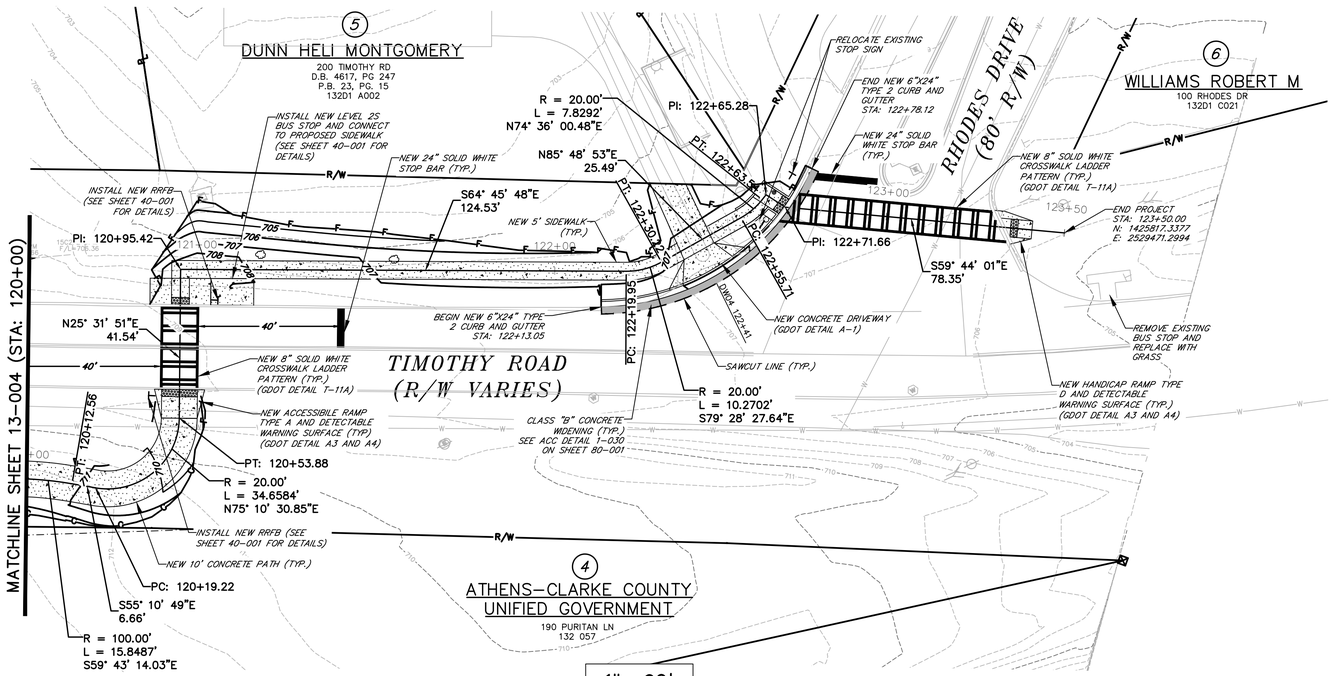
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 13-004



CONTRACTOR TO STRIPE THE CONCRETE PATH CENTERLINE WITH 5" SKIP YELLOW THERMOPLASTIC TRAFFIC STRIPE

FINAL GRADING TO ACHIEVE POSITIVE DRAINAGE ACROSS TRAIL TO ELIMINATE PONDING

1" = 20'

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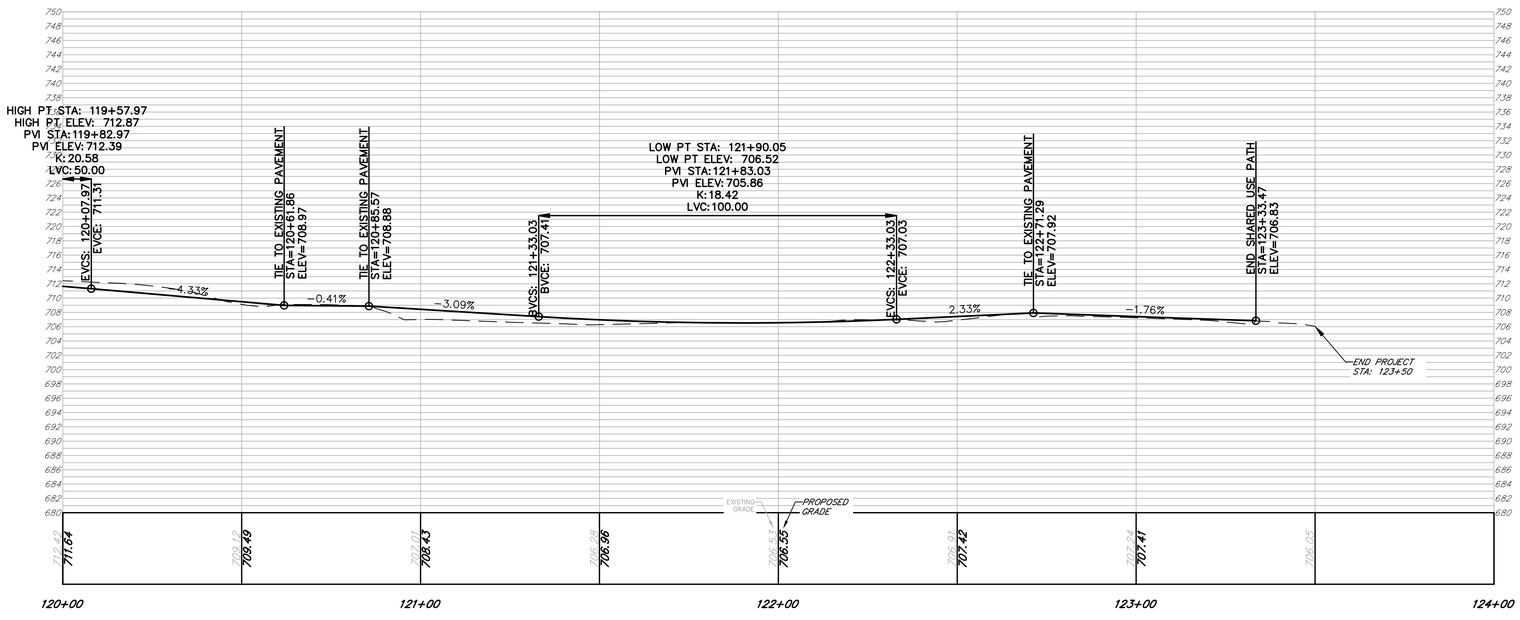
V: 1" = 10'



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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

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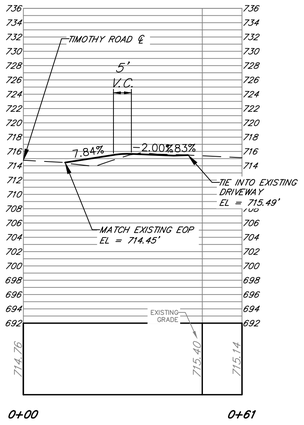
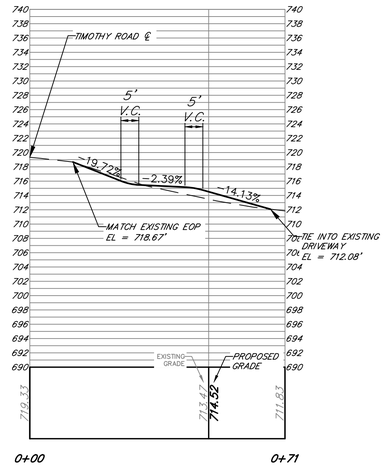
Sheet:
13-005



DRIVEWAY 01
104+98

DRIVEWAY PROFILE 1

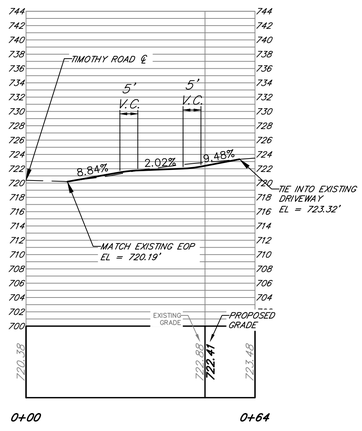
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



DRIVEWAY 02
106+93

DRIVEWAY PROFILE 2

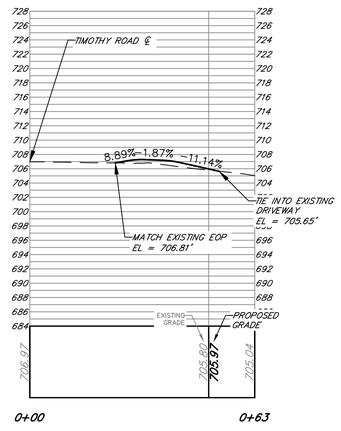
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



DRIVEWAY 03
108+87

DRIVEWAY PROFILE 3

SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



DRIVEWAY 04
122+41

DRIVEWAY PROFILE 4

SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS–CLARKE COUNTY, GA

SHEET TITLE: DRIVEWAY PROFILES

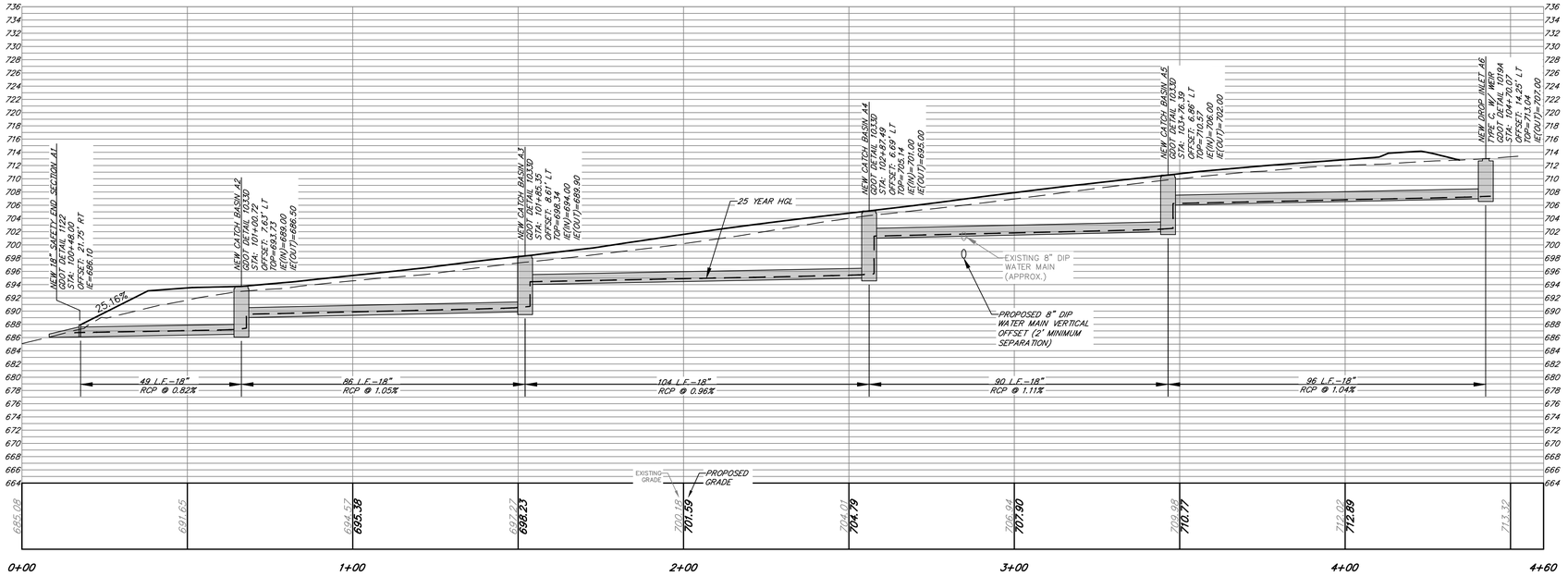
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	AS NOTED
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
17-001



STORM LINE A

SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: DRAINAGE PROFILES

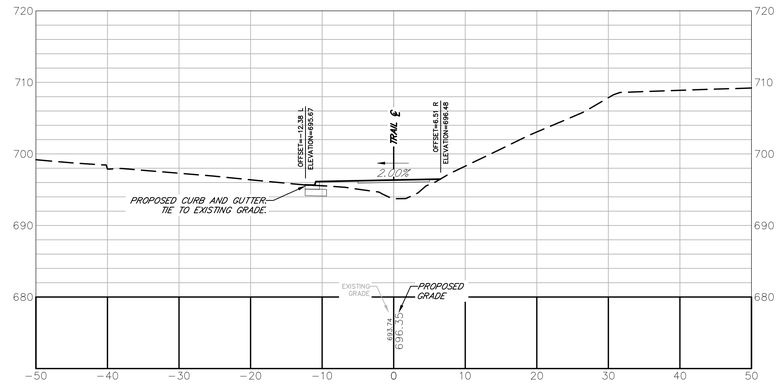
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

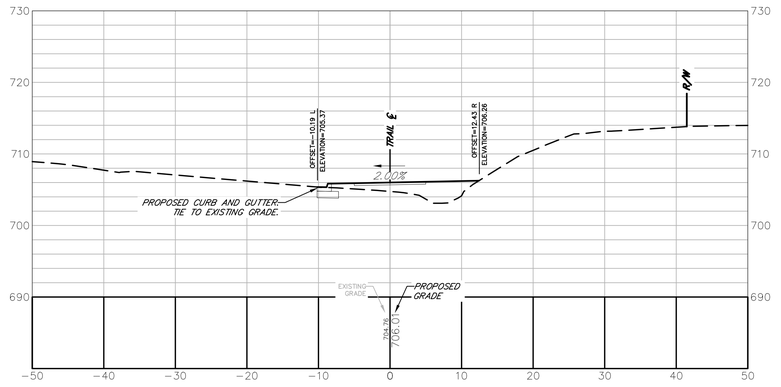
PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: AS NOTED
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 22-001

101+50



103+00



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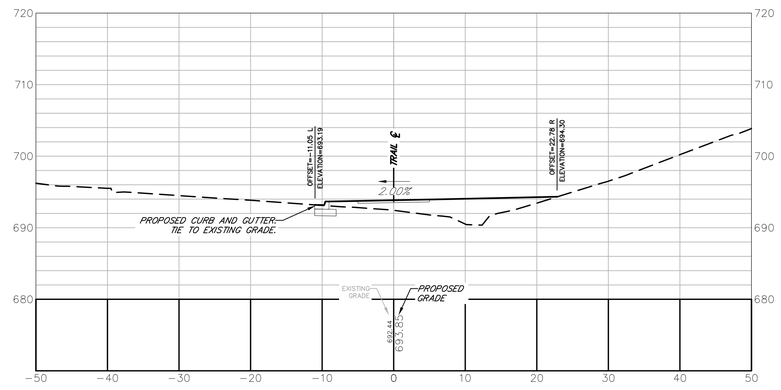

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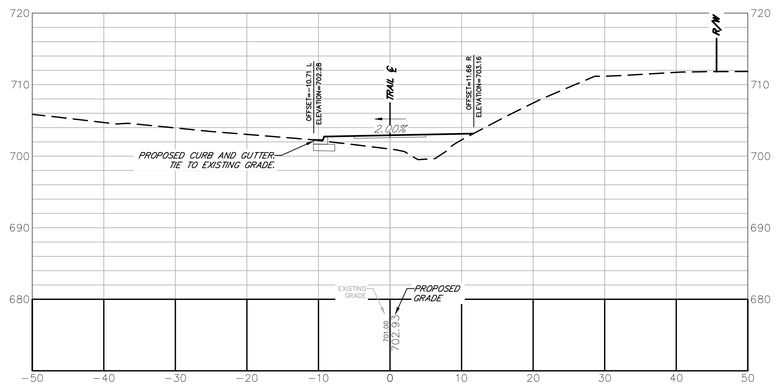

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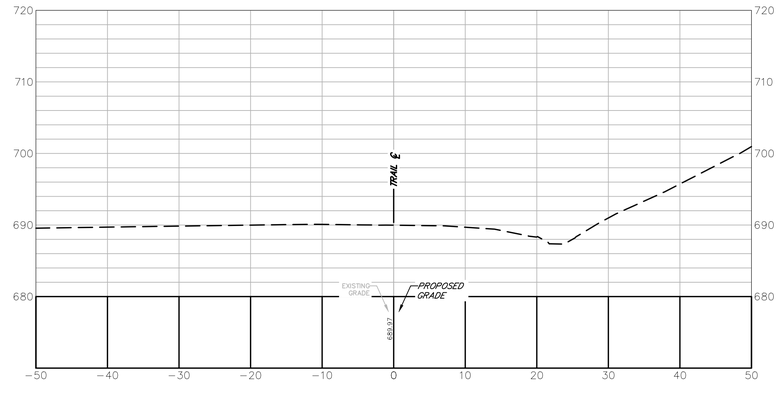
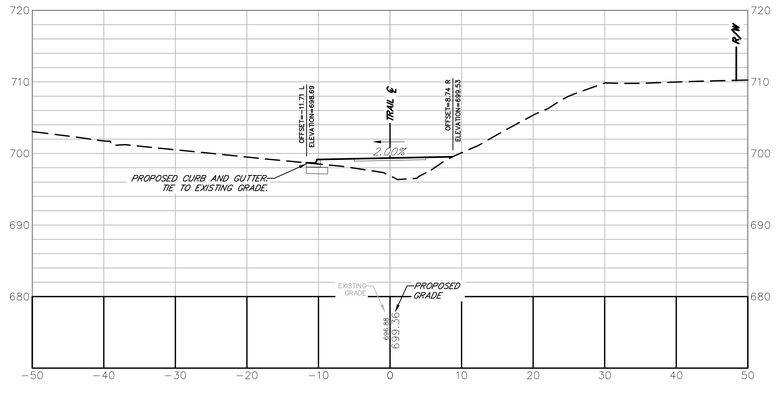


102+00



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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

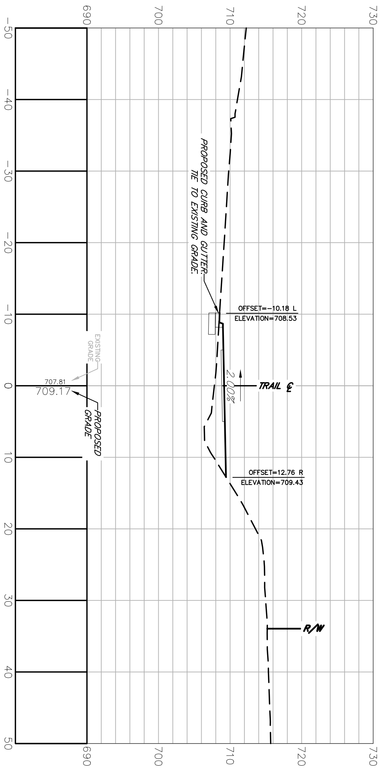
SHEET TITLE: CROSS SECTIONS

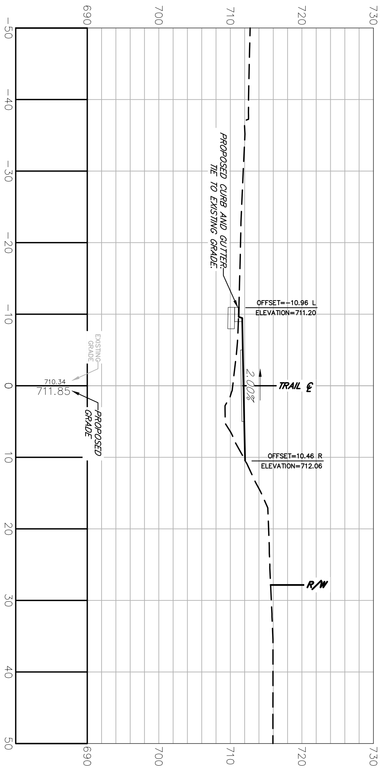
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

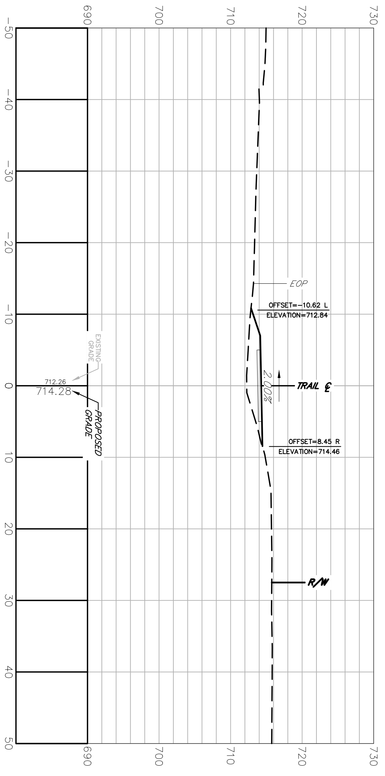
SCALE: 10 0 10 IN FEET

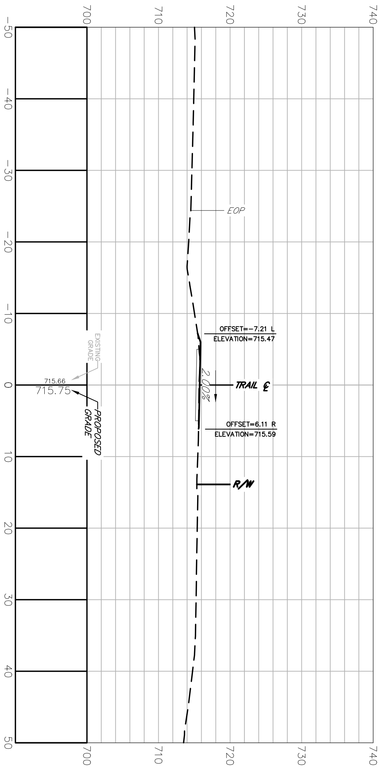
PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 10'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

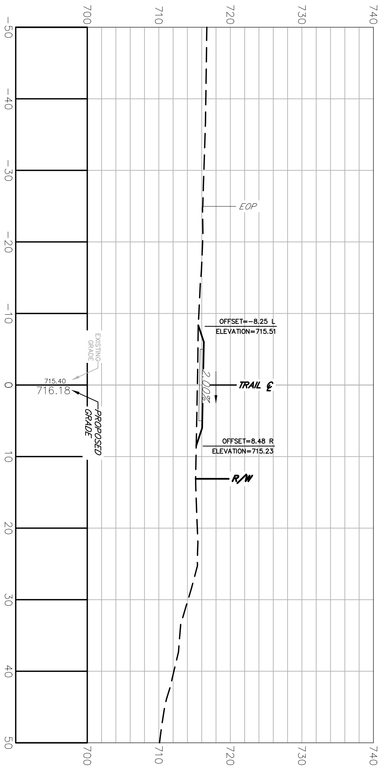
Sheet: 23-001

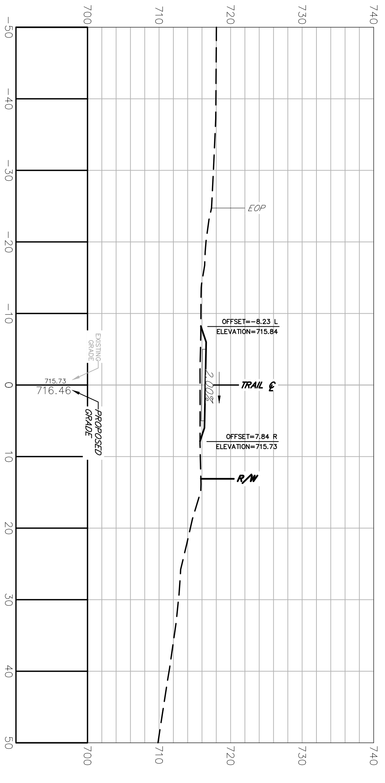












PROJECT INFORMATION

JOB NO. 19023002

DRAWN BY: KC

CHECKED BY: VC

DRAWING FILE: 19023002E.DWG

DRAWING SCALE: 1" = 10'

ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
23-002

SCALE
10 0 10
IN
FEET

SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS–CLARKE
COUNTY, GA

REV. NO.	DATE	DESCRIPTION

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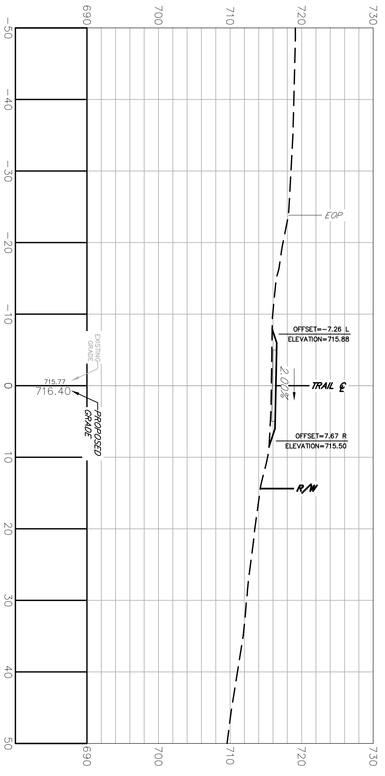

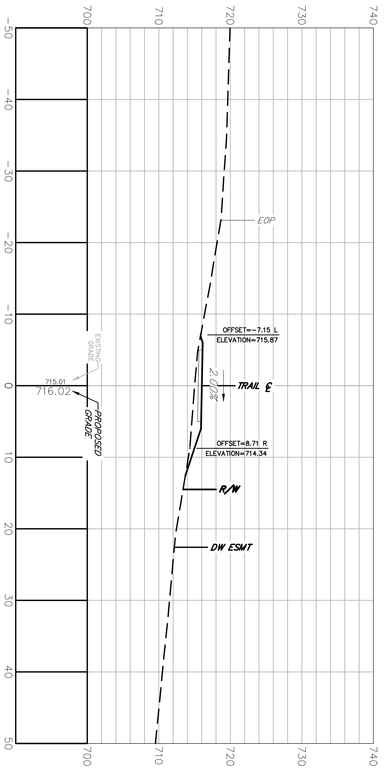

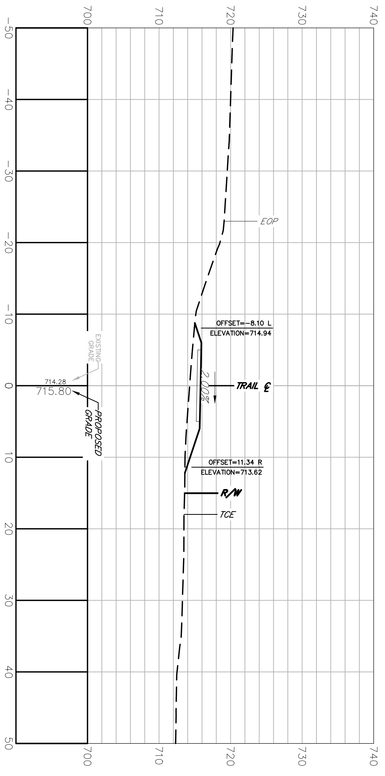

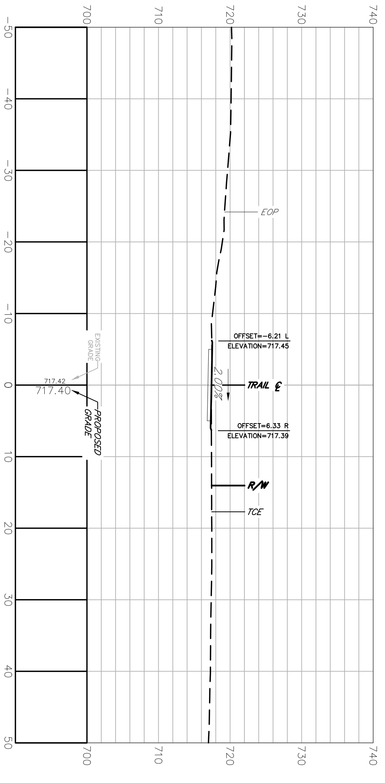

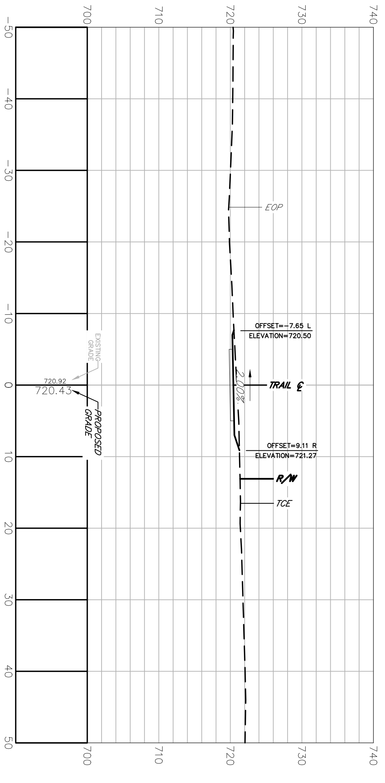

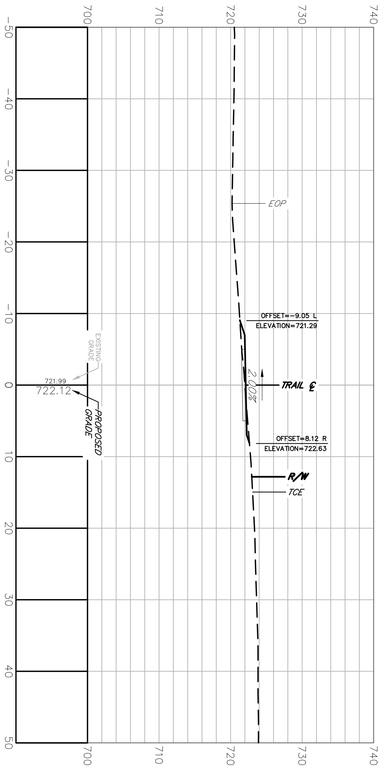

PROJECT INFORMATION

JOB NO. 19023002

DRAWN BY: KC

CHECKED BY: VC

DRAWING FILE: 19023002E.DWG

DRAWING SCALE: 1" = 10'

ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
23-003

SCALE: 10 0 10 IN FEET

SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS–CLARKE COUNTY, GA

REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

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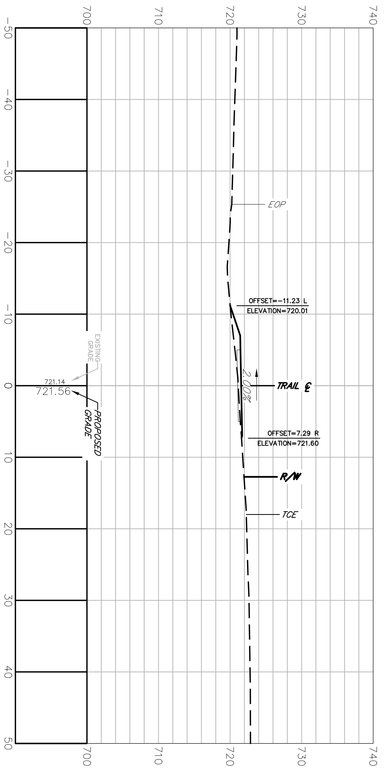

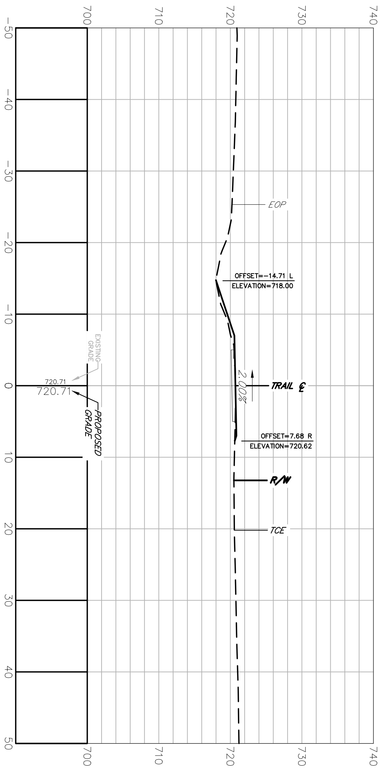

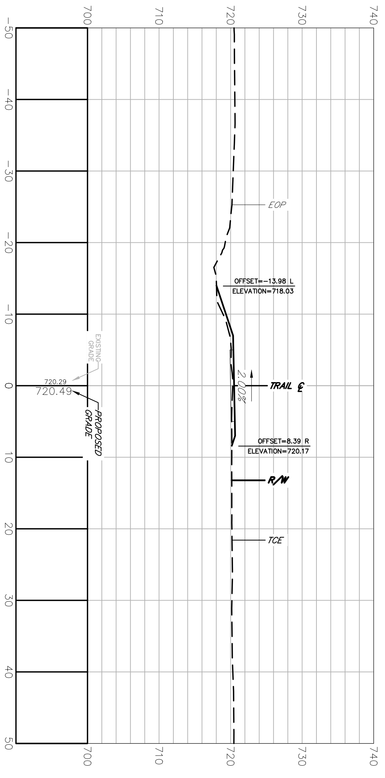

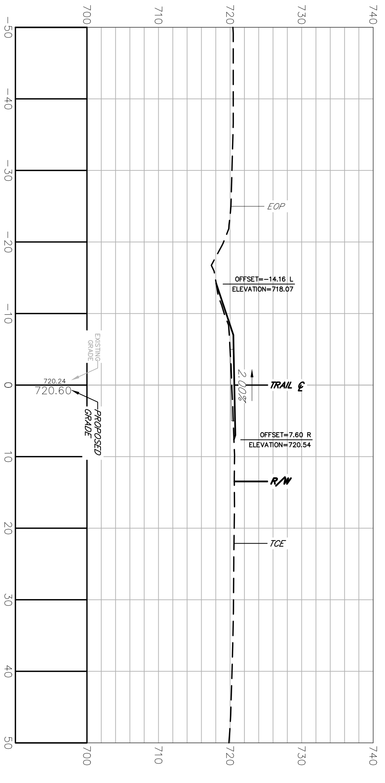

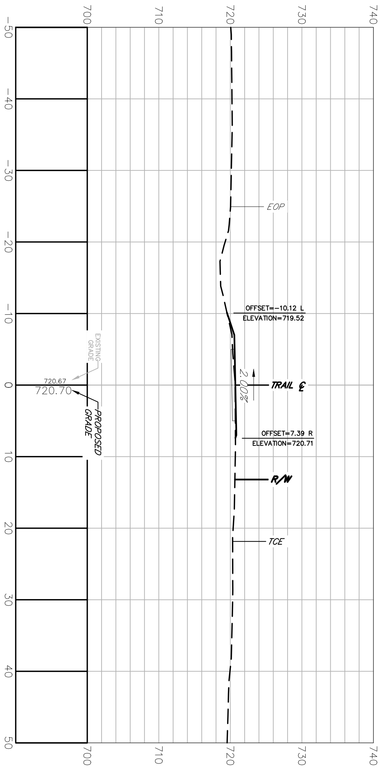

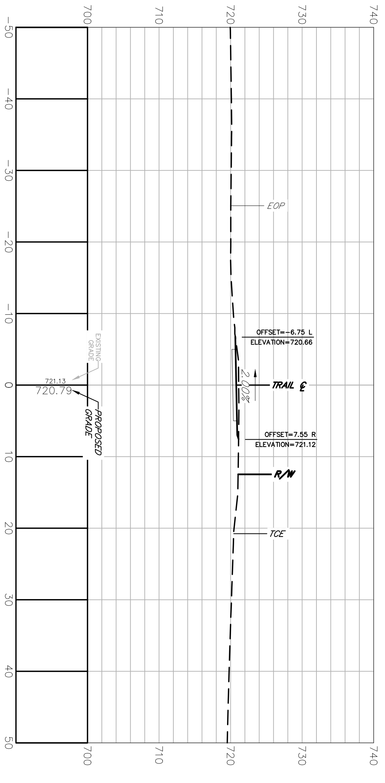

SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS–CLARKE
COUNTY, GA

REV. NO.	DATE	DESCRIPTION

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DRAWING FILE: 19023002.DWG
DRAWING SCALE: 1" = 10'
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

SCALE: 10 0 10 IN FEET

Sheet:
23-004

113+50

115+00

113+00

114+50

112+50

114+00

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ATHENS–CLARKE COUNTY, GA

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PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 10 0 10 IN FEET

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DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 10'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 23-005

116+50

118+00

116+00

117+50

115+50

117+00

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Sheet: 23-006

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ATHENS–CLARKE COUNTY, GA

SHEET TITLE: CROSS SECTIONS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 10 0 10 IN FEET

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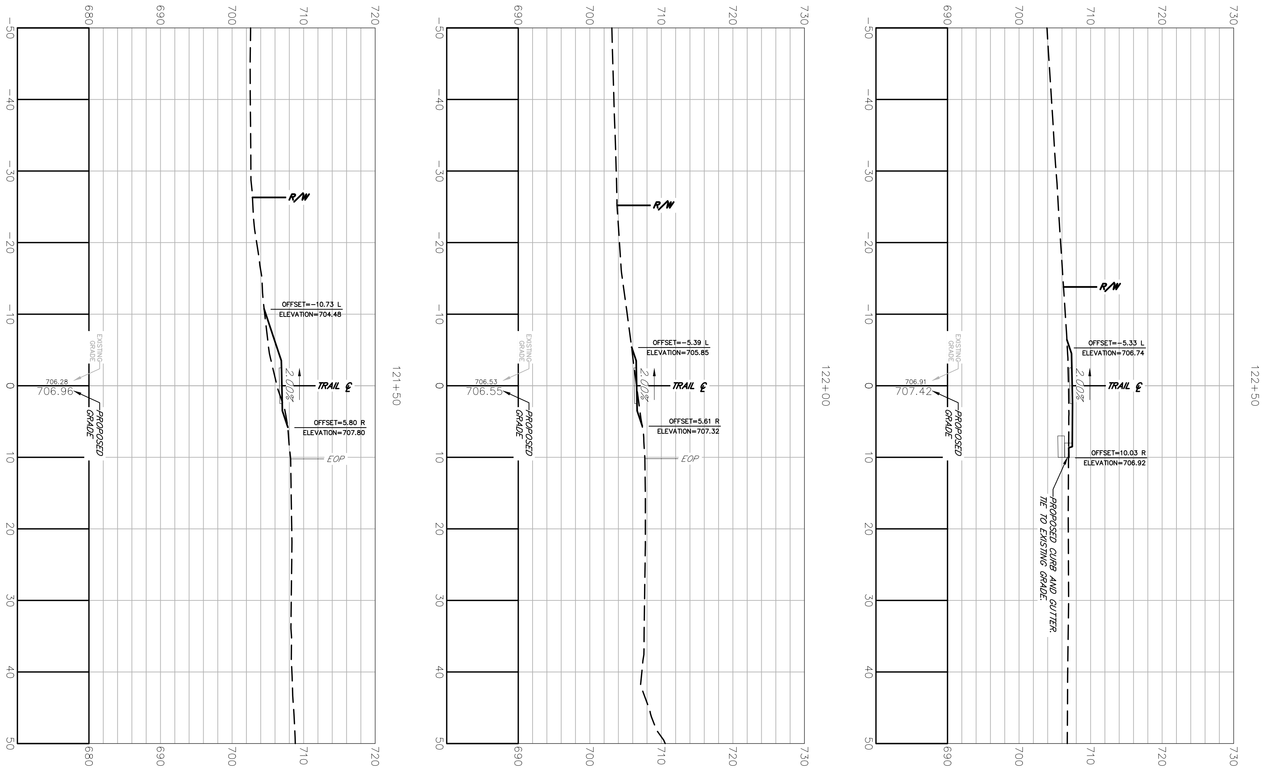
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 23-007



SHEET TITLE:
CROSS SECTIONS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS-CLARKE COUNTY, GA

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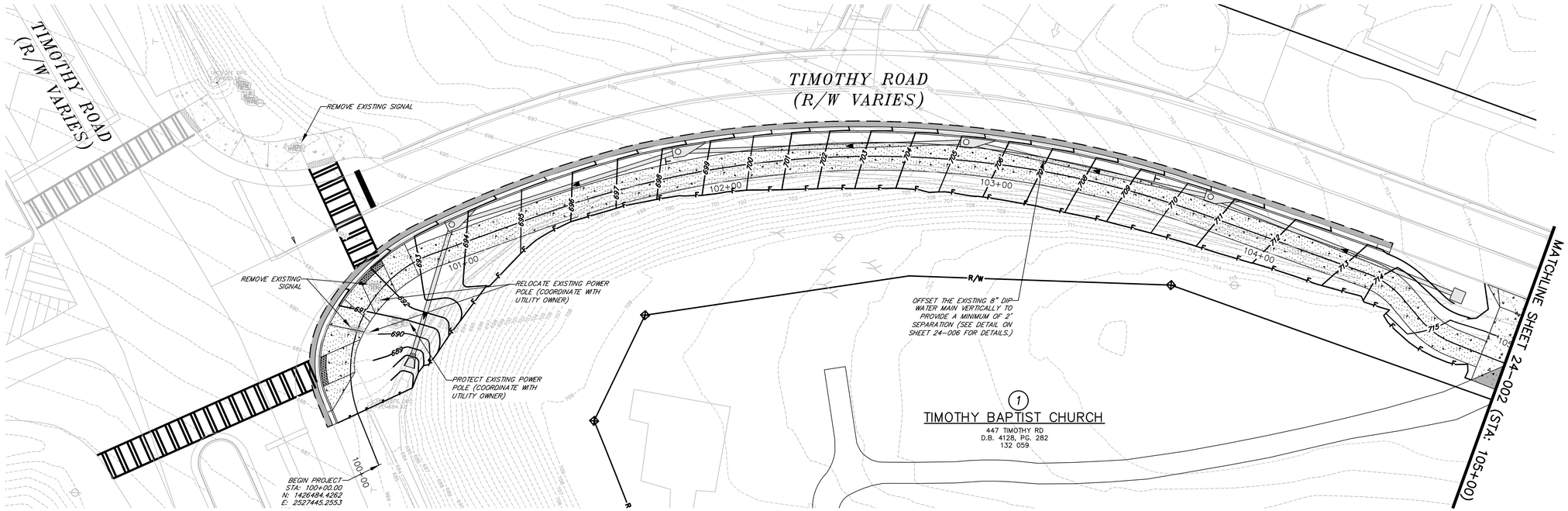
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

SCALE: 10 0 10 IN FEET

Sheet:
23-008



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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS–CLARKE COUNTY, GA

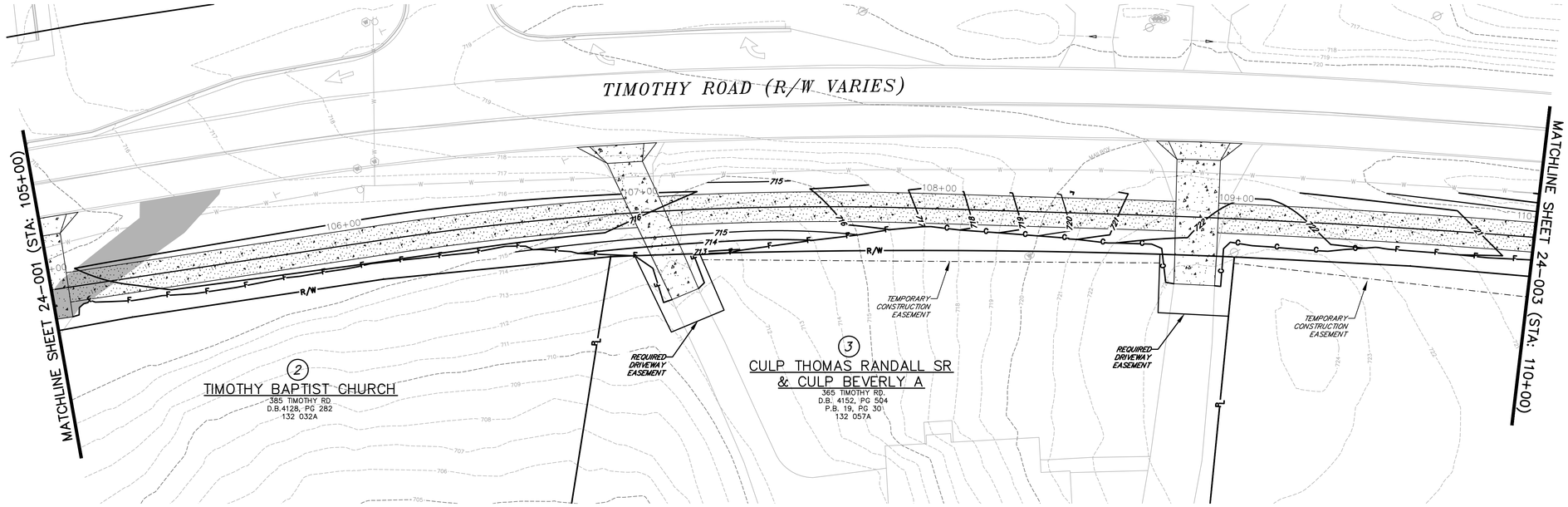
SHEET TITLE:
UTILITY PLAN

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
24-001



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REV. NO.	DATE	REVISION DESCRIPTION BLOCK

ATHENS–CLARKE COUNTY, GA

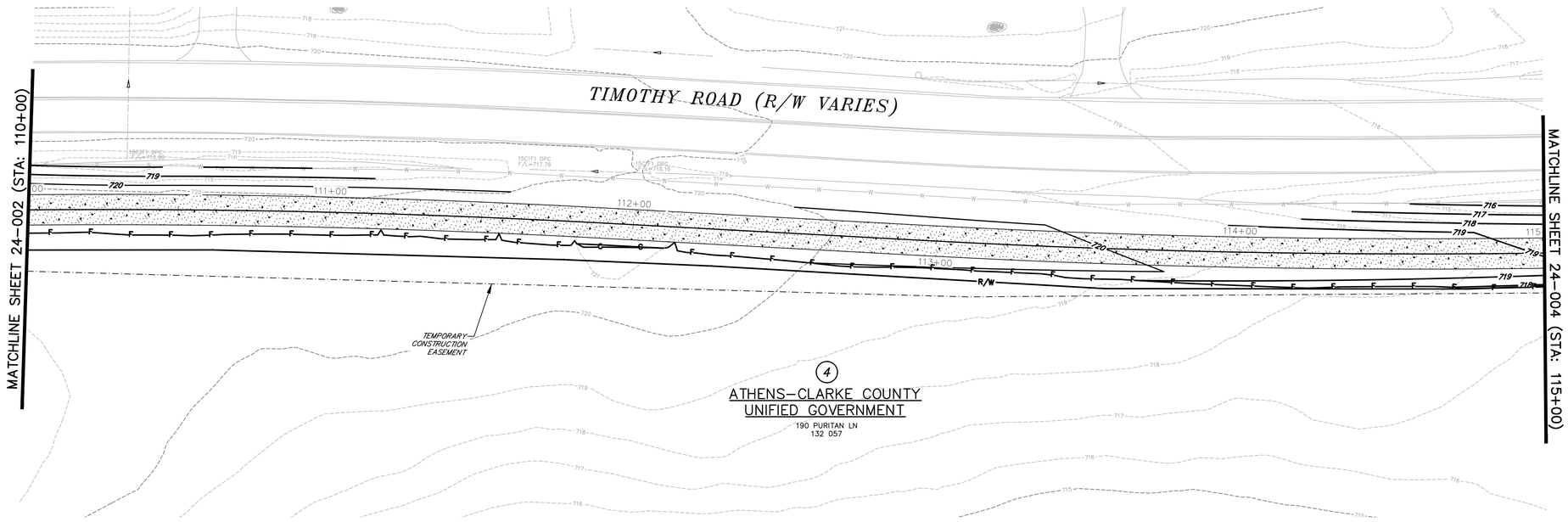
SHEET TITLE: UTILITY PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 24-002



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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: UTILITY PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

20 0 20
SCALE IN FEET

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
24-003

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

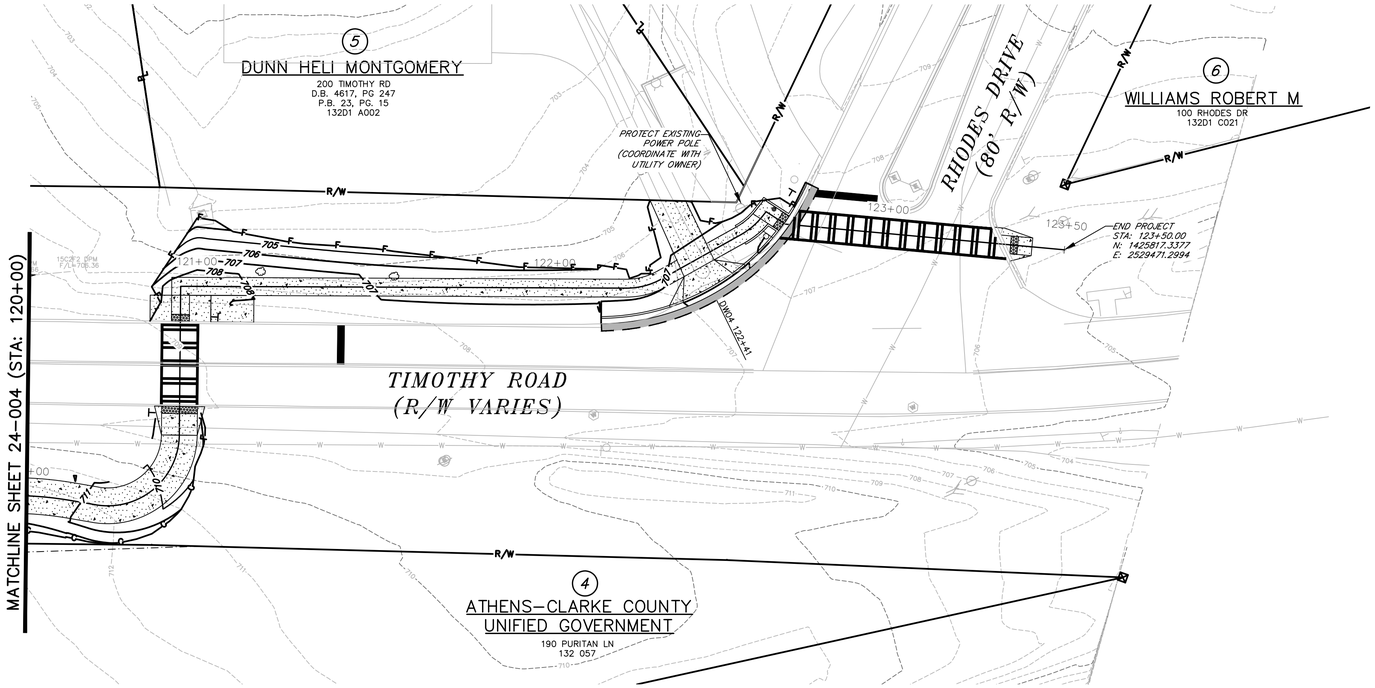
SHEET TITLE: UTILITY PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

20 0 20
SCALE IN FEET

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
24-004



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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

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SHEET TITLE: UTILITY PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

20 0 20
SCALE IN FEET

PROJECT INFORMATION
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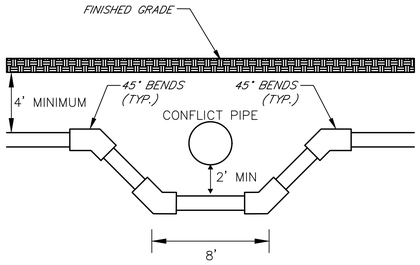
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 24-005

WATER MAIN VERTICAL OFFSET FOR CROSSING CONFLICT

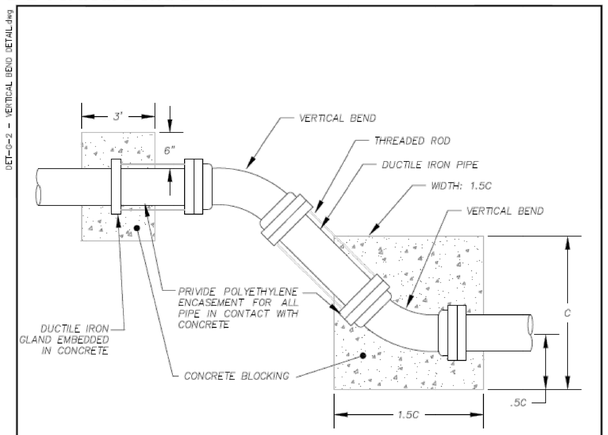


NOTES:

SEE ATHENS-CLARKE COUNTY DEPARTMENT OF PUBLIC UTILITIES DETAIL G-2 FOR VERTICAL BEND DETAIL

G-2 Vertical Bend Detail

DET-G-2 - VERTICAL BEND DETAIL.dwg



NOTE:

1. CONNECT THREADED RODS TO EMBEDDED FITTING OR RETAINER GLAND AS REQUIRED.

Vertical Bend Detail
NTS

G-2

Standard Specification and Detail for: Vertical Bend Detail			
GMD: NA	County: Athens-Clarke	State: Georgia	Date: August, 2019
Drawn by: KFM	The Unified Government of Athens-Clarke County Department of Public Utilities 124 E Hancock Ave Athens, Georgia 30601		
Approved by: GJ			
Scale: AS-SHOWN	Fax: 706-613-3198		Voice: 706-613-3490

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: UTILITY DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

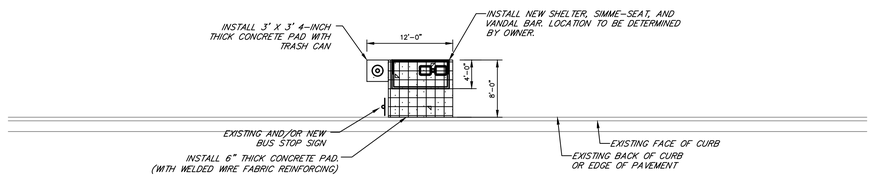
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 24-006

LEVEL 2S BUS STOP IMPROVEMENT

TYPICAL BUS SHELTER INSTALLATION SITE

LEVEL 2.3S

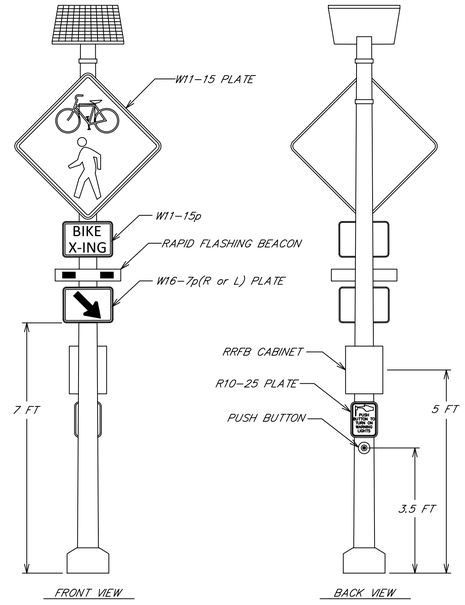


NOTE:
WAITING PAD MUST BE CLEAR OF UTILITY POLES, FIRE HYDRANTS, AND TRAFFIC SIGNS.

WAITING PAD TO HAVE MAXIMUM CROSS SLOPE OF 2%

WHERE TYING INTO EDGE OF PAVEMENT, PARTICULARLY ASPHALT, THE ASPHALT BE CUT STRAIGHT WITH A CONCRETE SAW AND THAT THE TIE-IN BE TWO STRAIGHT EDGES.

GRADE SITE DRAIN, MINIMUM SLOPE 0.5%



PEDESTAL MOUNTED PEDESTRIAN RECTANGULAR RAPID FLASHING BEACON

– ASSEMBLY DEATAIL –

NOTES:

1. PUSH BUTTONS SHALL ACTIVATE FOUR (4) RAPID FLASHING BEACONS, TWO (2) FACING SOUTH AND TWO (2) FACING NORTH. ALL PEDESTRIAN ASSEMBLIES SHALL OPERATE IN UNISON WITH ONE ANOTHER.
2. RAPID FLASHING BEACON, W11-15 PLATE, W11-15P PLATE, AND W16-7p(R or L) SHOULD BE FACING VEHICULAR TRAFFIC. RRFB CABINET, R10-25 PLATE (PUSH BUTTON TO TURN ON WARNING LIGHTS), AND PUSH BUTTON SHOULD BE FACING INSIDE CROSSWALK.
3. CONTRACTOR TO WORK WITH ATHENS-CLARKE COUNTY TO DETERMINE THE REQUIRED POWER SOURCE FOR THE RAPID FLASHING BEACON ASSEMBLIES, WIRELESS COMMUNICATION BETWEEN ASSEMBLIES IS PREFERRED.

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
40-001

My signature hereto signifies that I am the person responsible for compliance with the Soil Erosion & Sedimentation Control Ordinance. I have provided a copy of my certification with regards to Athens-Clarke County requirements for 24-hour contact. I hereby acknowledge that Best Management Practices (BMP's) must be used to control soil erosion on my job site which includes, at a minimum, the following:

1. **Installation and regular maintenance of silt barriers (i.e. silt fences, hay bales, etc.) in all those areas where water exits the job site; and,**
2. **Installation and regular maintenance of a stone (1.5" - 3.5") geotextile-underlined construction exit (20' wide x 50' deep x 6" thick) to minimize the tracking of mud into the street; and,**
3. **Removal of mud from the street or adjacent property immediately following any such occurrence; and,**
4. **Maintenance and removal of mud from detention ponds and sediment basins; and,**
5. **Conduct no land disturbing activities within 25 feet of the banks of streams, lakes, wetlands, etc. (i.e. "state waters") except in locations as indicated on the approved Soil Erosion and Sediment Control Plan, as approved by variance from EPD; and,**
6. **Institute erosion control measures and practices as indicated on the approved Soil Erosion and Sediment Control Plan.**

I hereby further acknowledge that County inspection staff may refuse to make inspections, may issue stop work orders, and may issue citations to appear in Environmental Court for failure to comply with erosion control requirements.

Signature: _____ **Date Signed:** _____

Printed Name: _____ **Title:** _____

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING 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.

_____
(PLAN PREPARER SIGNATURE AND DATE)

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRES BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 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 MENTOHDS IS EXPEDTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

_____
(PLAN PREPARER SIGNATURE AND DATE)

I, VICTOR A CONOVER (LEVEL II CERTIFIED DESIGN PROFESSIONAL (0000052944), HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN AND HAVE VERIFIED THE PRESENCE OR LACK THEREOF OF ALL STATE WATERS ON, OR ADJACENT TO, THE SITE.

_____
(PLAN PREPARER SIGNATURE AND DATE)

NPDES Certification:
Construction of this project will involve Land Disturbance equal to, or greater than, 1 acre, or is a part of a common development requiring an NPDES Permit, and must comply with the National Pollutant Discharge Elimination System (NPDES) Permit for construction activities (General Permit No. GAR 100002). The owner/contractor or authorized representative shall be responsible for preparation of the necessary Notice of Intent (NOI) and appropriate erosion, sediment and pollution control plan requirements that comply with all aspects of the NPDES Permit for construction activities.

ACKNOWLEDGEMENT

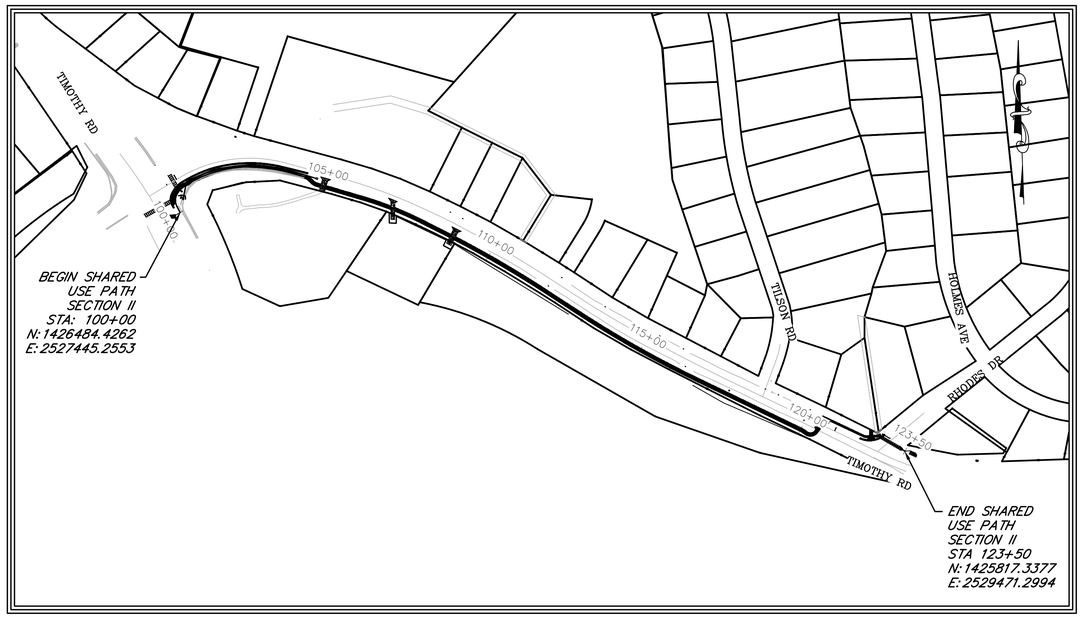
_____
Owner / Contractor or Authorized Representative

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION AND/OR THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY.

Erosion, Sediment & Pollution Control Plan and Monitoring Program TIMOTHY ROAD SECTION II

FOR ATHENS-CLARKE COUNTY DEPARTMENT OF LEISURE SERVICES



N.T.S.

DISTURBED AREA = 1.78 AC
A NOI IS REQUIRED

NOTE:
PROJECT TO BE CONSTRUCTED AS PER GEORGIA DOT STANDARD SPECIFICATIONS, 2021 EDITION AND 2016 STANDARD SUPPLEMENTAL SPECIFICATIONS, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION AND AS MODIFIED BY CONTRACT DOCUMENTS.

DETENTION FACILITIES AND EROSION & SEDIMENT CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISH.

N.T.S.

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1005 Broad Street, Suite 200 Augusta, GA 30901
P 706.722.4114 - www.benesch.com

OWNER
24 HR. CONTACT
ATHENS-CLARKE COUNTY
DEREK DOSTER
301 COLLEGE AVE., SUITE 101
ATHENS, GA. 30603
706-613-3025

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		28	95

LOCATION MAP

N.T.S.

NPDES PROJECT DATA

1. *PRIMARY PERMITEE*
   CONTRACTOR: TBD
2. *PROJECT DESCRIPTION*
   TIMOTHY ROAD SHARED USE PATH SECTION II
3. *PROJECT DATA*
   TOTAL SITE AREA = 5.23 AC
   TOTAL DISTURBED AREA = 1.78 AC
   TOTAL IMPERVIOUS AREA = 0.60 AC

Begin	
Latitude	33.918136 N
Longitude	83.403393 W
End	
Latitude	33.916990 N
Longitude	83.392726 W

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SUBMITTED BY VICTOR A. CONOVER

PLANS COMPLETED	AUGUST 16, 2023
REVISIONS	

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: OCONEE RIVER SWCD

Project Name: TIMOTHY ROAD SHARED USE PATH **Address:** TIMOTHY ROAD

City/County: ATHENS-CLARKE COUNTY **Date on Plans:** AUGUST 16, 2023

Name & email of person filling out checklist: VICTOR CONOVER, VCONOVER@BENESCH.COM

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
51-001	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. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ALL	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-001	Y	3	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
50-001	Y	4	Provide the name, address, email address, and phone number of primary permittee.
ALL	Y	5	Note total and disturbed acreages of the project or phase under construction.
50-001	Y	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
ALL	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-002	Y	8	Descriptions of the nature of construction activity and existing site conditions.
50-001	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-002	Y	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-001	Y	11	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 21** of the permit.
50-001	Y	12	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 20** of the permit. *
50-001	Y	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on **Part IV.D.6.c.(3) page 37** of the permit as applicable. *
51-002	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, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with **Part IV.A.5 page 26** of the permit. *
51-002	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 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."
51-002	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-002	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." *
51-002	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." *
51-002	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."
51-002	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."
51-002	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."
N/A	N/A	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of 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. *
N/A	N/A	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. *
51-002	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. *
51-002	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
51-002	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. *
51-002	Y	27	Description of practices to provide cover for building materials and building products on site. *
51-002	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
51-002	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).
51-003	Y	30	Provide complete requirements of Inspections and record keeping by the primary permittee. *
51-003	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
51-003	Y	32	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
51-003	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
51-004	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
53-001	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
51-002	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. *
ALL	Y	37	Graphic scale and North arrow.
ALL	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

N/A	N/A	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.
N/A	N/A	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. *
ALL	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.
N/A	N/A	42	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-001	Y	43	Delineation and acreage of contributing drainage basins on the project site.
53-001	Y	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
53-001	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-004	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
55-001	Y	47	Soil series for the project site and their delineation.
ALL	Y	48	The limits of disturbance for each phase of construction.
51-004	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 must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage 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.
ALL	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.
51-004	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.
ALL	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 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, 2023

benesch
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1005 Broad Street, Suite 200
Augusta, GA 30901
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REV. NO.	DATE	DESCRIPTION
		REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32881 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: ES&PC GENERAL NOTES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 51-001

ESPCP GENERAL NOTES:

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

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

This project will use type "S" and "NS" silt fence, stone check dams, and inlet sediment traps as structural practices to prevent pollutants in storm water discharges. Permanent grass established/installed on all previous slopes.

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.

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 marsh land buffer as measured from the jurisdictional determination line without first acquiring the necessary variances and permits

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 within 7 days after installation.

PLAN ALTERATIONS

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract. Amendments to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional and approved by the Athens–Clarke County Transportation & Public Works Department.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. Additional BMP's may be added per Special Provision 161 – Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that **"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."** – However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

1. Contractor Mobilization and Installation of ES&PC Perimeter BMPs
2. Clearing and Grubbing
3. General Sidewalk Construction
4. Final Stabilization

DE-WATERING ACTIVITIES AND USE OF PUMPS

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR 100002 NPDES Permit utilizing by a Certified Design Professional. No separate payment will be made for water sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Departments Specifications.

SEDIMENT STORAGE

The disturbed area within the drainage area is 1.78 acres. The disturbance activities consist of installing a new 5'–10' wide concrete sidewalk. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location.

To control the sediment runoff within the project silt fence and inlet sediment traps will be installed as grading activities take place. Also the disturbed areas throughout construction will be kept to a minimum.

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS

For building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site, provide cover, such as plastic sheeting or temporary roofs, to minimize exposure of these products to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk to stormwater contamination, such as final products and materials intended for outdoor use.

STREAM BUFFER ENCROACHMENT

State–water buffers, as defined by O.C.G.A. 12–7–1, are not impacted by this project.

PETROLEUM STORAGE, SPILLS AND LEAKS

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum products leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

The Contractor is not allowed to store petroleum products onsite during the duration of this project.

SOIL SERIES INFORMATION

(See drawing 55–01 for soil series map)

POST-CONSTRUCTION BMP's

All permanent, post–construction BMP's are shown in the construction plans and in the ESPCP plan. The post–construction BMP's for this project may consist of vegetation, rip–rap at pipe outlets for velocity dissipation and outlet stabilization, and vegetated swales/ditches where practical. The post–construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force storm water to flow through the silt fence. This technique, or configuration, is commonly referred to as J–hooks or spurs. The J–hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J–hooks shall be spaced in accordance with the Typical Location Details for silt fences/baled straw. Spacing for J–hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of three (3) J–hooks on both sides of the structure at spacing not to exceed 30 feet. J–hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

MAINTENANCE AND STABILIZATION MEASURES

See GDOT standard specs sections 161 and 700 and other contract documents for maintenance and stabilization measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, waste courses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 permit.

NON-STORM WATER DISCHARGES

Non–storm water discharges require defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and Contract Documents.

READY MIX CHUTE WASH DOWN

Washout of the concrete mixer drum at the construction site is prohibited.

EROSION CONTROL 24 HR. CONTACT
CONTRACTOR: TO BE DETERMINED

24 HR. CONTACT
ATHENS–CLARKE COUNTY ATTN: DEREK DOSTER 301 COLLEGE AVE., SUITE 101 ATHENS, GA 30603 706–613–3025

THE CONTRACTOR SHALL BE THE PRIMARY PERMITTEE WITH SECONDARY PERMITTEES. SECONDARY PERMITTEES, IF ANY SHALL BE THE RESPONSIBILITY OF THE PRIMARY PERMITTEE. THE PRIMARY PERMITTEE IS SOLELY RESPONSIBLE FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL FOR ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.

RECEIVING WATERS
THE RECEIVING WATERS FOR THE PROJECT ARE MCNUTT CREEK, TRIBUTARY OF MIDDLE OCONEE RIVER, AND THE MIDDLE OCONEE RIVER. THE OUTFALL FOR MCNUTT CREEK AND THE TRIBUTARY OF MIDDLE OCONEE RIVER IS THE MIDDLE OCONEE RIVER WHICH OUTFALLS INTO THE OCONEE RIVER AND LAKE OCONEE.

EXISTING SITE CONDITIONS
EXISTING SITE CONSISTS MOSTLY OF GRADED GRASSED AND FORESTED AREAS.

PROPOSED DEVELOPMENT
THE PROPOSED DEVELOPMENT WILL PLACE A 10' CONCRETE SHARED USE PATH WITH 2' GRADED GRASSED SHOULDERS AND A MAX FILL AND/OR CUT SLOPE OF 3:1.

NPDES DATA	
TOTAL SITE AREA	5.23 AC
TOTAL DISTURBED AREA	1.78 AC
PRE–DEVELOPED SITE "C" VALUE	0.340
POST–DEVELOPED SITE "C" VALUE	0.416
RECEIVING WATERS	MIDDLE OCONEE RIVER AND MCNUTT CREEK
WETLAND AREA	0.00 ACRES
OUTFALL	MIDDLE OCONEE RIVER AND MCNUTT CREEK

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REVISION BLOCK

REV. NO.	DATE	DESCRIPTION

ATHENS–CLARKE COUNTY, GA

VICTOR A. CONOVER – GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05–01–2026

SHEET TITLE: ES&PC GENERAL NOTES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 51-002

INSPECTIONS (NPDES GENERAL PERMIT NO. GAR100002, SEC. IV.D.4.):

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
(b.) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND,
(c.) MEASURE RAINFALL ONCE EACH 24-HOUR PERIOD AT THE SITE.

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS

(2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM EVENT 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 THAT HAVE NOT UNDERGONE FINAL STABILIZATION;
(b.) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION;
(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, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. 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).

(4). 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.

(5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, 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.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

DETAILS ON COMPLETE REQUIREMENTS OF OF SAMPLING FREQUENCY AND REPORTING SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR 100001, SEC. IV.D.6.d.):

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES

(a). THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION;
(b). THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR 100002, SEC. IV.D.6.d.): CONT'D.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

(a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED 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 STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
(c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM 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 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.

*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 MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. GAR100002, SEC. IV.E.):

THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

(1). ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

(2). ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

(a). THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
(b). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
(c). THE DATE(S) ANALYSES WERE PERFORMED;
(d). THE TIME(S) ANALYSES WERE INITIATED;
(e). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
(f). REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND,
(g). THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
(h). RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."

COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF GAR 100002:

(1). THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

(a). A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
(b). A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
(c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF GAR 100002:

(d). A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
(e). A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
(f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
(g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

(2). COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE NPDES 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.

DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE:

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

SAMPLING POINTS:

FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM. SEE SHEET 51-005 FOR A TABLE OF REPRESENTATIVE SAMPLING LOCATIONS.

RETENTION OF RECORDS (NPDES GENERAL PERMIT NO. GAR 100002, SEC IV.E.):

(1.) THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

(a.) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
(b.) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
(c.) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT.
(d.) A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
(e.) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a OF THIS PERMIT;
(f.) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
(g.) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a(2). OF THIS PERMIT.

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REV. NO. | DATE | DESCRIPTION
REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: ES&PC GENERAL NOTES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 51-003

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative or additional BMPs will be used on this project.

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are located within the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

MONITORING GENERAL NOTES:

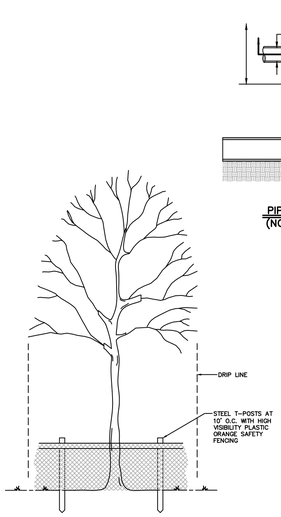
The total site size is 5.23 acres. Representative sampling is utilized on this project.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative monitored features are identified in the table below.

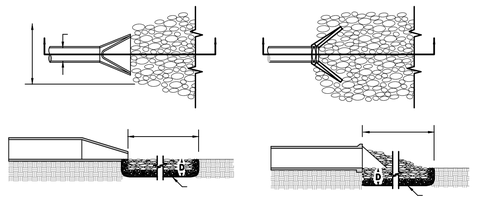
NOTE: THE TOTAL SITE AREA IS 5.23 ACRES						
SAMPLING INFORMATION						
PRIMARY SAMPLED FEATURE	LOCATION (STATION AND OFFSET)	NAME OF RECEIVING WATER	SAMPLING TYPE (OUTFALL FOR RECEIVING WATER)	WARM OR COLD WATER STREAM	APPENDIX B NTU VALUE (OUTFALL SAMPLING ONLY)	LOCATION DESCRIPTION
1	100+48 – 22' RT	MCNUTT CREEK	ALL	WARM	75	DOWNSTREAM
2	110+81 – 70' LT	TRIBUTARY OF MIDDLE OCONEE RIVER	ALL	WARM	75	DOWNSTREAM

SEDIMENT STORAGE TABLES											
OUTFALL	TOTAL DRAINAGE AREA (ACRES)	DISTURBED AREA (ACRES)	REQUIRED SEDIMENT STORAGE VOLUME (YD3)	REQUIRED SEDIMENT STORAGE (DISTURBED)	TOTAL STORAGE VOLUME PROVIDED (YD3)	INLET SEDIMENT TRAP (6 YD3 EACH)		CHECK DAM (5 YD3 EACH)		SILT FENCE (0.3 YD3/FT)	
						# OF DEVICES	TOTAL VOLUME (YD3)	# OF DEVICES	TOTAL VOLUME (YD3)	LENGTH OF FENCE (FT)	TOTAL VOLUME (YD3)
1	2.66	0.70	178.22	46.90	137.1	5	30	0	0	357	107.1
2	1.19	0.53	79.73	35.51	132.6	0	0	3	15	392	117.6
3	0.97	0.38	64.99	25.46	78.7	0	0	2	10	229	68.7
4	0.57	0.16	38.19	10.72	48.6	0	0	0	0	162	48.6

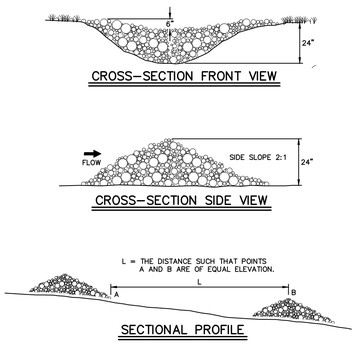
Due to the project location, the project outfalls include substantial offsite water passing through the project via existing culverts or as sheet flow. The structural practices to be implemented on this project have been applied to meet the required storage based on the project limits.



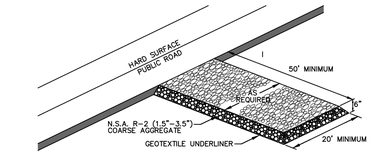
TREE PROTECTION ZONE DETAIL
NOT TO SCALE



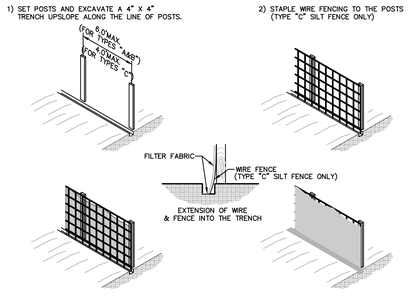
St RIP-RAPPED OUTLET DETAILS
NOT TO SCALE



Rd STONE CHECK DAM DETAIL
NOT TO SCALE



Co CONSTRUCTION OUTLET DETAIL
NOT TO SCALE



SPECIFICATIONS:

FENCE HEIGHTS:
TYPE "A"-36"
TYPE "B"-24"
TYPE "C"-36"

REINFORCING:
TYPE "C" SILT FENCE SHALL HAVE 36" WOVEN WIRE FENCE FABRIC INSTALLED AS PER DETAIL.

POST ALTERNATIVES:
SOFT WOOD 3" DIAMETER OR 2 X 4
OAK – 1.5" X 1.5"
STEEL – 1.3 LBS. PER FOOT

MAINTENANCE:
SILT FENCES SHALL BE MAINTAINED ON A REGULAR BASIS. WHEN MATERIAL ACCUMULATES TO 1/2 THE HEIGHT OF THE INSTALLED FENCE, IT SHALL BE CLEANED OUT & RESET TO THE REQUIRED INSTALLATION PROCEDURE DETAIL.

Sd1 SILT FENCE DETAIL
NOT TO SCALE

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REV. NO.	DATE	REVISION DESCRIPTION
		BLOCK

ATHENS–CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: ES&PC GENERAL NOTES

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 51-004

DISTURBED AREA STABILIZATION (with permanent vegetation)

A. Ground Preparation

Prepare the ground by plowing under any temporary grass areas and preparing the soil as follows:

1. Slopes 3:1 of Flatter
   On slopes 3:1 or flatter, plow shoulders and embankment slopes to between 4 in and 6 in deep. Plow front and back slopes in cuts to no less than 6 in deep. After plowing, thoroughly disk the area until pulverized to the plow depth.
2. Slopes Steeper Than 3:1
   Serrate slopes steeper than 3:1 according to Plan details when required. On Embankment slopes and cut slopes not requiring serration (sufficient as determined by the Engineer), prepare the ground to develop an adequate seed bed using any of the following methods as directed by the Engineer:
   - Plow to a depth whatever depth is practicable.
   - Use a spiked chain.
   - Walk with a cleated track dozer.
   - Scarify.
   - Disking cut slopes and fill slopes in not required.
3. All Slopes
   a. Obstructions
      Remove boulders, stumps, large roots, large clods, and other objects hat interfere with grassing or may slide into the ditch.
   b. Topsoil
      Spread topsoil stockpiled during grading evenly over cut and fill slopes after preparing the ground. Push topsoil from the top over serrated slopes. Do not operate equipment on the face of completed serrated cuts.

B. Grassing Adjacent To Existing Lawns

When grassing areas adjacent to residential or commercial lawns, the Engineer shall change the plant material to match the type of grass growing on adjacent lawn. If the Engineer believes bituminous treated mulch would harm other portions of the work, bituminous treated mulch may be substituted with 1,500 lbs/acre of wood fiber mulch with tackifier.

C. Temporary Grassing

Apply temporary grassing according to DS1 or DS2 specifications and the following:

- Determine lime requirements by a laboratory test.
- Add mulch only if temporary grass does not provide adequate mulch to meet the requirements of Section G. Mulching. In March or April of the year following planting and as soon as the weather is suitable, replace all areas of temporary grass with permanent grass by plowing or overseeding using the no-till method. If the no-till method is used, ensure that temporary grass is less than 3-inches in height (this may be achieved by mowing. Additional mulch will be required only if the temporary grass does not provide adequate mulch to meet the requirements of Section G. Mulching.

D. Applying Agricultural Lime and Fertilizer

Apply and mix lime and fertilizer as follows:

1. Agricultural Lime
   Uniformly spread agricultural lime on the ground at the approximate rate determined by the laboratory soil test or at a rate on 1 to 2 tons per acre.
2. Fertilizer Mixed Grade
   Uniformly spread fertilizer selected according to Table 2 Fertilizer Requirements for Temporary Vegetation. If using a higher analysis fertilizer with hydroseeding, apply it at the same rate per acre as the standard fertilizer.
3. Mixing
   Before proceeding, uniformly work the lime and fertilizer into the top 4 in of soil using harrows, rotary tillers, or other equipment acceptable to the Engineer. On cut slopes steeper than 3:1, other than serrated slopes, reduce the mixing depth to the maximum practical septh as determined by the Engineer. Omit mixing on serrated slopes.

E. Seeding

Following Table 3 - Common Names and Botanical Names For Approved Seed Types. Whenever seeds are specified by the common names, the strains indicated by their botanical name apply.
Prepare seed and sow as follows:

1. Inoculation of Seed
   Inoculate each kind of leguminous seed separately with the appropriate commercial culture according to the manufacturer's instructions for the culture. When hydroseeding, double the inoculation rate. Protect inoculated seed from the sun and plant it the same day as inouclated.
2. Sowing
   Weather permitting, sow seed within 24 hours after preparing the seed bed and applying the fertilizer and lime, or sow seed with in 24 hours after applying mixed in-place mulch. Sow seed uniformly at the rates specified in Table 1 - Seeding Table, Seeding Rates and Planting Dates. Use approved mechanical seed drill, rotary hand seeders, hydraulic equipment, or other equipment to uniformly apply seed. Do not distribute by hand. To distribute the seeds evenly sow seed types separately, except for similarly sized and weighted seeds. They may be mixed and sown together.
3. Rolling
   Roll seeded areas before applying mulch, except on steep slopes where rollers cannot operate satisfactorily. On slopes inaccessible to compaction equipment, cover the seeds by dragging spiked chains over them or by using other methods. Do not sow during windy weather, when the prepared surface is crusted, or when the ground is frozen, wet, or otherwise nontillable.
4. Overseeding
   Temporary grass areas that were prepared in accordance with Section A. Ground Preparation, shall be overseeded using no-till method. The no-till method is defined by planting permanent grass seeds using a drill-type seeder over existing temporary grass without plowing or tilling soil in accordance with Section C - Temporary Grassing. This method shall be shown on the Plans or directed by the Engineer before implemented.

F. Hydroseeding

Hydroseeding may be used on any grassing area. Under this method, spread the seed, fertilizer, and wood fiber mulch in the form of a slurry. Seeds of all sizes may be mixed together. Inoculate the seeds at double the rate for seeds not being hydroseeded. Apply hydroseeding as follows.

1. Use wood fiber mulch as a metering agent and seed bed regardless of which mulching method is chosen. Apply wood fiber mulch at approximately 1,500 lbs/acre.
2. Prepare the ground for hydroseeding as for conventional seeding in Section A. Ground Preparation.
3. Use specially designed equipment to mix and apply the slurry uniformly over the entire seeding area.
4. Agitate the slurry mixture during application.
5. Discharge slurry within one hour after being combined in the hydroseeder. Do not hydroseed when winds prevent an even application.
6. Closely follow the equipment manufacturer's direction unless the Engineer modifies the application method.
7. Mulch the entire hydroseeded area according to Section F - Hydroseeding, Subsection 1 and Section G - Mulching.

G. Mulching

Except as noted in Section B - Grassing Adjacent to Existing Lawns and Section C- Temporary Grassing, apply mulch immediately after seeding areas as follows: Areas with permanent grass seed and covered with slope mats or blankets will not require mulch. Evenly apply straw or hay mulch between 3/4 in and 1-1/2 in deep, according to the texture and moisture content of the mulch material. Mulch shall allow sunlight to penetrate and air to circulate as well as shade the ground, reduce erosion, and conserve soil moisture. If the type of mulch is not specified

1. Mulch with Binder
   Apply mulch with binder regardless of whether using ground or hydroseeding equipment for seeding.
   a. Mulch uniformly applied manually or with special blower equipment designed for the purpose. When using a blower, thoroughly loosen baled material before feeding it into the machine so that it is uniformly coated with binder and broken up.
   b. After distributing the mulch initially, redistribute it to bare or inadequately covered areas in clumps dense enough to prevent new grass from emerging. Do not apply mulch on windy days.
   c. Apply enough binder to the mulch to hold it in place. Immediately replace mulch that blows away. When using a power blower to distribute the mulch, spray the binder ontp the mulch as the mulch is ejected from the machine. If distributing the mulch by hand, immediately apply the binder uniformly over the mulched areas.
   Use on of the following binders:
   - Emulsified asphalt, SS-1h or SS-1: The public, adjacent property, bridges, pavements, curbs, sidewalks, and other existing structures shall be protected from discoloration by the asphalt. Correct discoloration damage at no expense to the Department.
   - Tackifier: Use a tackifier listed in GDOT's Laboratory Qualified Products Manual at the manufacturer's recommended rates.
2. Mixed-in-Place Mulch
   Apply mixed-in-place mulch on flat areas or slopes 3:1 or less and treat as follows:
   a. Immediately work the mulch into the soil with appropriate equipment to produce a loose soil and mulch mixture 3 in to 3.5 in deep.
   b. After mixing mulch and soil and restoring areas to line and grade, seed as specified in this Section.
3. Walked-in-Mulch
   Apply walked-in-mulch on slopes ranging in steepness from 5:1 to 2:1 and treat as follows:
   a. Immediately walk it into the soil with a cleated track dozer. Make dozer passes vertically up and down the slope.
   b. Where walked-in mulch is used, do not roll or cover the seeds as specified in Section E - Seeding, Subsection 3.

H. Application of Nitrogen Apply nitrogen at approximately 50 lbs/acre when specified by the Engineer after plants have grown to 2 in high.
One application is mandatory and must be applied before Final acceptance apply nitrogen with mechanical hand spreaders or other approved apreaders capable of uniformly covering the crassed areas. Do not apply nitrogen on windy days of when foliage is damp. Do not apply nitrogen between October 15 and March 15.

TABLE 1 - SEEDING TABLE, SEEDING RATES, AND PLANTING DATES

PLANTING DATES	POUNDS OF SEED PER ACRE									
	RYE GRASS, MILLET, CEREAL GRASS (OATS)	COMMON BERMUDA GRASS (HULLED)	COMMON BERMUDA GRASS (UNHULLED)	TALL FESCUE	WEEPING LOVE GRASS	WHITE OR CRIMSON CLOVER	CROWN VETCH	SCARIFIED INTERSTATE LESPEDEZA	UNSCARIFIED INTERSTATE LESPEDEZA	REQUIRED PERMANENT PLANTING
March 1 - July 31	-	10	-	-	-	-	-	-	-	COMMON BERMUDA GRASS
October 1 - February 28	-	-	10	-	-	-	-	-	-	
September 1 - February 14	15	-	-	-	-	-	-	-	-	
November 15 - January 31	-	-	-	-	-	6	-	-	-	
Plant these combinations on back slopes, fill slopes and areas which will not be subject to frequent mowing.										
March 15 - May 31	-	-	-	-	4	-	-	60	-	INTERSTATE LESPEDEZA OR CROWN VETCH
September 1 - October 15	-	-	-	30	-	-	15	–	75	

TABLE 2 - FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATE (LBS/ACRE)
Cool Season Grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - - - 30
September 1 - February 14	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50 - - - - - -
November 15 - January 31	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30
March 1 - July 31	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 1000 400	50 - - - - - -

TABLE 3 - COMMON NAMES AND BOTANICAL NAMES FOR APPROVED SEED TYPES

COMMON NAMES	BOTANICAL NAMES	COMMON NAMES	BOTANICAL NAMES
Annual Ryegrass	Lolium multiforum	**Lespedeza Korean	Lespedeza stipulacea Maxim
Bermuda Grass, Common Hulled and Unhulled	Cynodon dactylon	Pensacola Bahiagrass	Paspalum notatum, var. Pensacola
**Crimson Clover	Trifolium incranatum Var. Reseeding	Tall Fescue	Festuca arundinacea
**Lespedeza Virgata	Lespedeza Ambro Virgata	Weeping Love Grass	Eragrostis curvula
**Lespedeza Sericea	Lesoedeza cuneta, Var. Sericea	**White Dutch Clover	Trifolium repens
**Lespedeza Serala	Lespedeza cuneta, Var. Serala	**Crown Vetch	Coronilla Varia
**Lespedeza Interstate	Lespedeza cuneta, Var. Interstate	Inland Sea Oats	Chasmanthium Latifolium
**Requires inoculation.			

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REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONDYER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

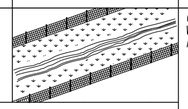
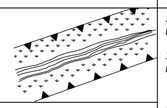
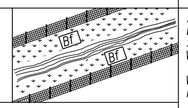
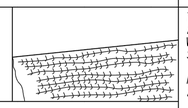
SHEET TITLE: ES&PC GENERAL NOTES

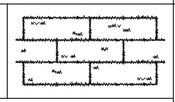
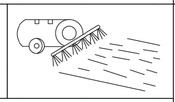
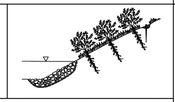
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 51-005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE ESA-25'(OR 50')STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL Bf	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds1	
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds2	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds3	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN	
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL Fl-Co POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN	

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPLW

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ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONDYER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

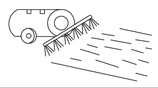
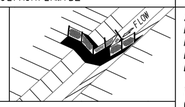
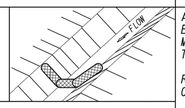
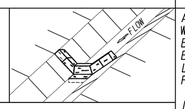
SHEET TITLE: ES&PC LEGEND

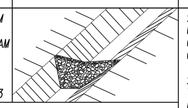
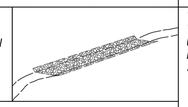
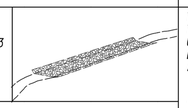
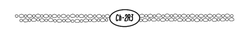
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 52-001

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716	 PATTERN 	SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895	 SYMBOL Tac POLYACRYLAMIDE	TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171	 SYMBOL Cd-F	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Fs	A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Hb	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603	 SYMBOL Cd-S	STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-I	VEGETATED CHANNEL STABILIZATION SECTION 700	 LINE CODE 	A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2RI	CHANNEL STABILIZATION RIP-RAP, TYPE I CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE I RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

GDOT

NO SCALE

REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-0002
CORRECTED:		DATE:	
VERIFIED:		DATE:	

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REV. NO. | DATE | REVISION DESCRIPTION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

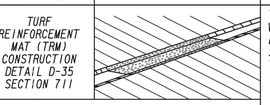
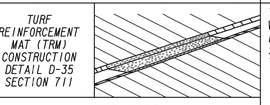
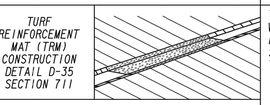
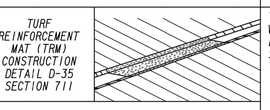
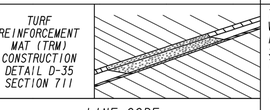
SHEET TITLE: ES&PC LEGEND

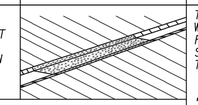
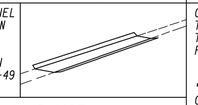
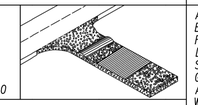
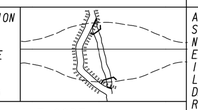
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 52-002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711 LINE CODE		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441 LINE CODE		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800 SYMBOL		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, i.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 LINE CODE		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sdl-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

GDOT

NO SCALE

REVISION DATES

3/2/2017		

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0003

7/31/2015 GPLW

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REV. NO. | DATE | DESCRIPTION — REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: ES&PC LEGEND

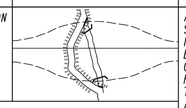
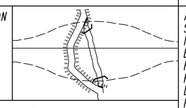
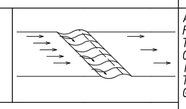
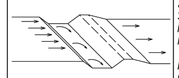
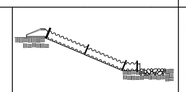
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

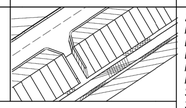
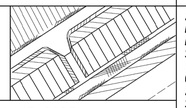
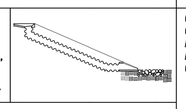
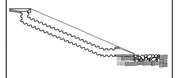
PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 52-003

3/2/2017 11:10:01 AM | GPLOT-V8 | EC-Lisheets 1-71.dgn | GDOT | P.I. No.
cbaird | gplotborder-V81-PO.tbl

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163	 LINE CODE —D—D—D—(Dc-B)—D—D—D—	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163	 LINE CODE —D—D—D—(Dc-C)—D—D—D—	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205	 LINE CODE (D1-1)	A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS "Dn1"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
D1-2	DIVERSION CHANNEL SECTION 205	 LINE CODE (D1-2)	A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163	 LINE CODE —T—T—T—(Dn1)—T—T—T—	A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE (Dn2-A)	A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE (Dn2-B)	A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1. DETAIL D-26 TP1 SECTION 576, 577	 LINE CODE (Dn2-1)	CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2. DETAIL D-26 TP2 SECTION 576, 577	 LINE CODE (Dn2-2)	CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLW

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-0004
CORRECTED:		DATE:	
VERIFIED:		DATE:	

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REV. NO.	DATE	REVISION DESCRIPTION

BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

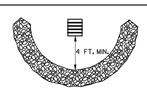
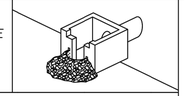
SHEET TITLE: ES&PC LEGEND

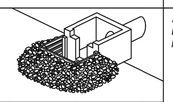
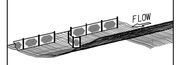
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 52-004

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL: Fr		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL: Rd		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT, THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE: —Rd-B—		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-I SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN: Rp		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL: Rt-P		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL: Rt-B		
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
	SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3		
Sdl-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE: —A—A—A—Sdl-NS—A—A—A—		
Sdl-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
	LINE CODE: —C—C—C—Sdl-S—C—C—C—		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

NO SCALE

REVISION DATES: 3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-0005
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPLW

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REV. NO. | DATE | REVISION DESCRIPTION BLOCK

ATHENS-CLARKE COUNTY, GA

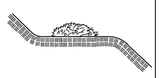
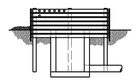
GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

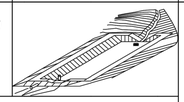
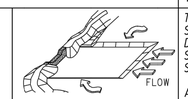
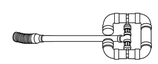
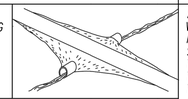
SHEET TITLE: ES&PC LEGEND

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 52-005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd3		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd4-C		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL Sk		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL Sr		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

GDOT

NO SCALE

REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0006

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REV. NO.	DATE	DESCRIPTION
		REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

VICTOR A. CONOVER — GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

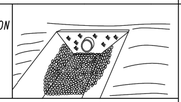
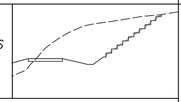
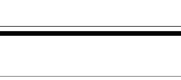
SHEET TITLE: ES&PC LEGEND

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 52-006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 SYMBOL St	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603	 PATTERN FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL	RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 <⁄= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 <⁄= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	 LINE CODE Su	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 WORK AREA FLOATING LINE CODE Tc-F	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 WORK AREA STAKED LINE CODE Tc-S	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLW

GDOT

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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ATHENS-CLARKE COUNTY, GA

VICTOR A. CONOVER — GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

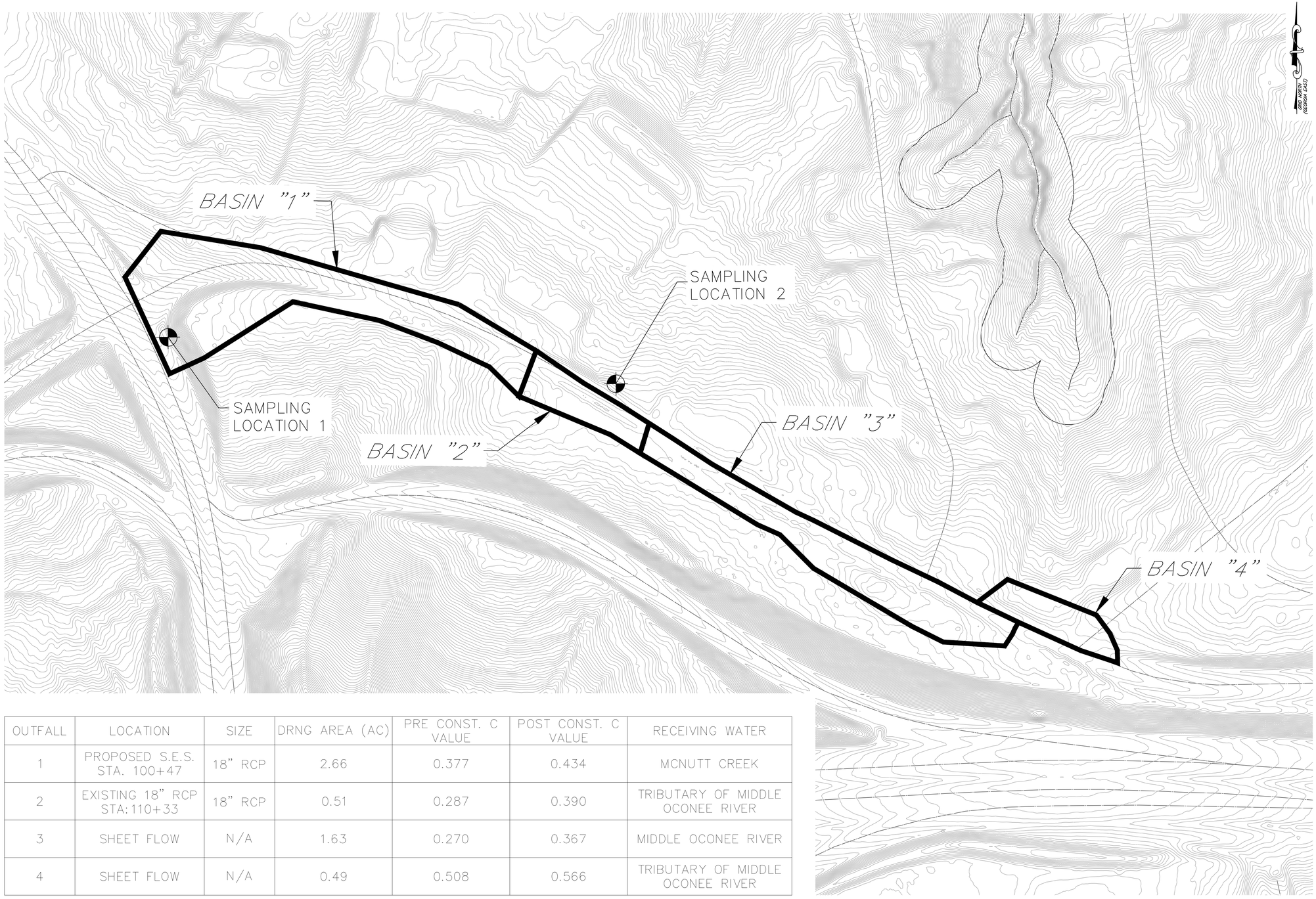
SHEET TITLE: ES&PC LEGEND

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 52-007



OUTFALL	LOCATION	SIZE	DRNG AREA (AC)	PRE CONST. C VALUE	POST CONST. C VALUE	RECEIVING WATER
1	PROPOSED S.E.S. STA. 100+47	18" RCP	2.66	0.377	0.434	MCNUTT CREEK
2	EXISTING 18" RCP STA: 110+33	18" RCP	0.51	0.287	0.390	TRIBUTARY OF MIDDLE OCONEE RIVER
3	SHEET FLOW	N/A	1.63	0.270	0.367	MIDDLE OCONEE RIVER
4	SHEET FLOW	N/A	0.49	0.508	0.566	TRIBUTARY OF MIDDLE OCONEE RIVER

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS–CLARKE COUNTY, GA

GEORGIA REGISTERED VICTOR A. CONOVER No. 32681 PROFESSIONAL ENGINEER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: DRAINAGE MAP AND SAMPLING LOCATION MAP

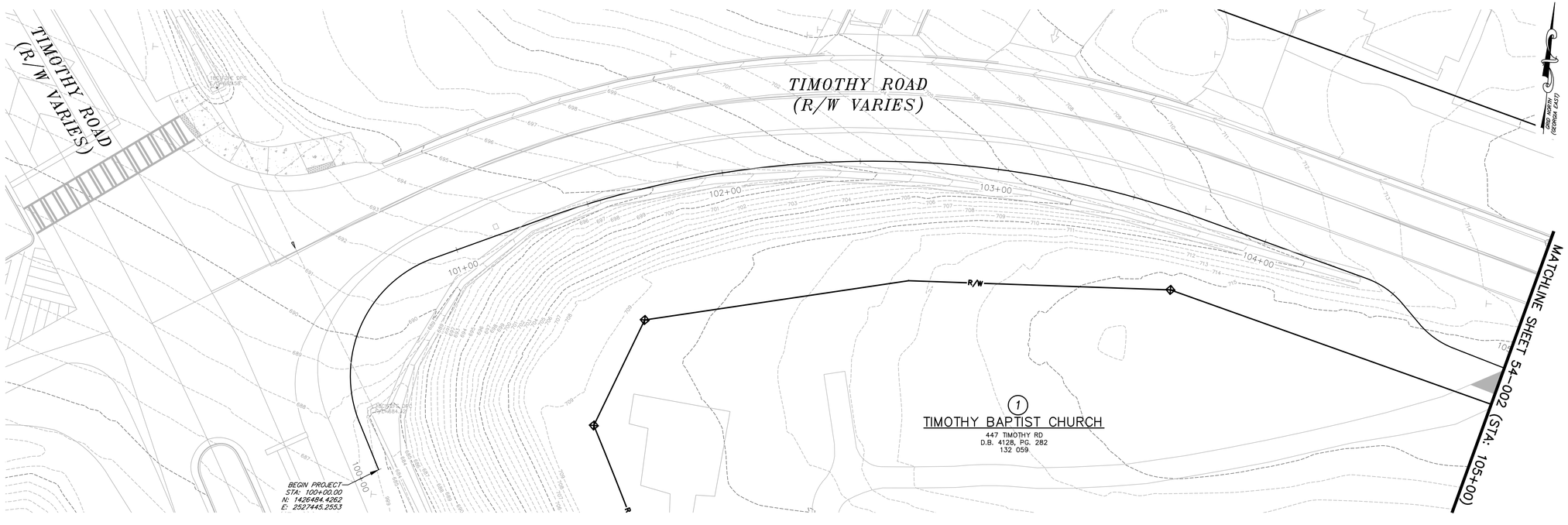
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 100 0 100 IN FEET

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 100'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 53-001



PHASE I DISTURBED AREA = 0.11 AC

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

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NOTE:
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3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

VICTOR A. CONOVER
GEORGIA REGISTERED
No. 32681 PROFESSIONAL ENGINEER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE I

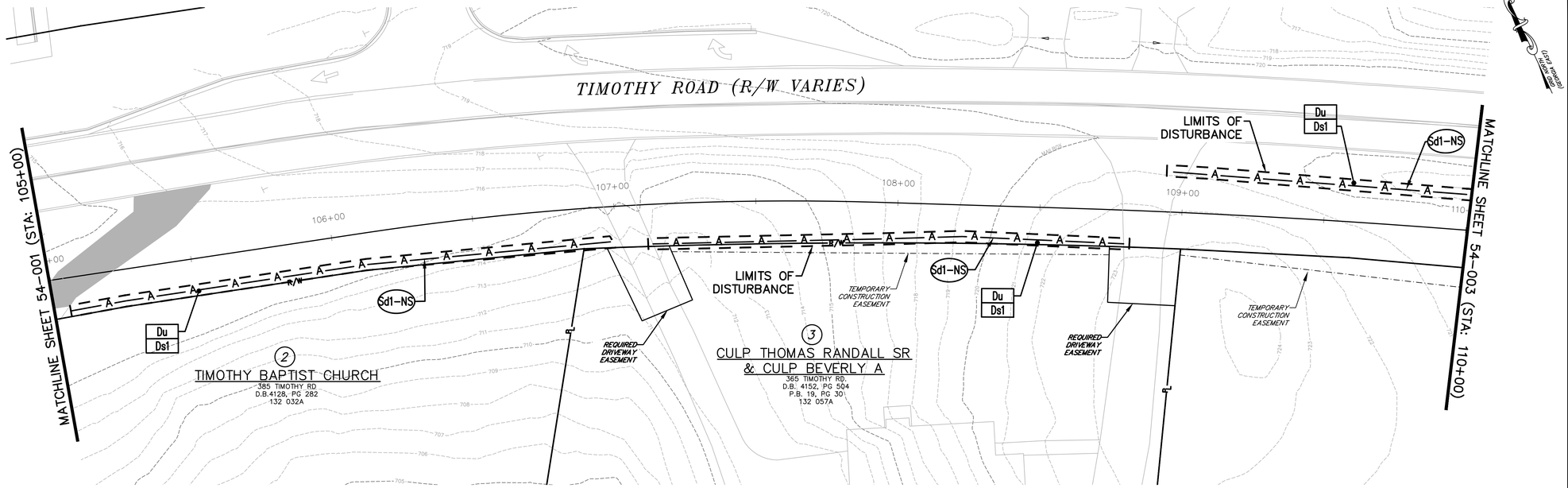
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-001



PHASE I DISTURBED AREA = 0.11 AC

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4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE I

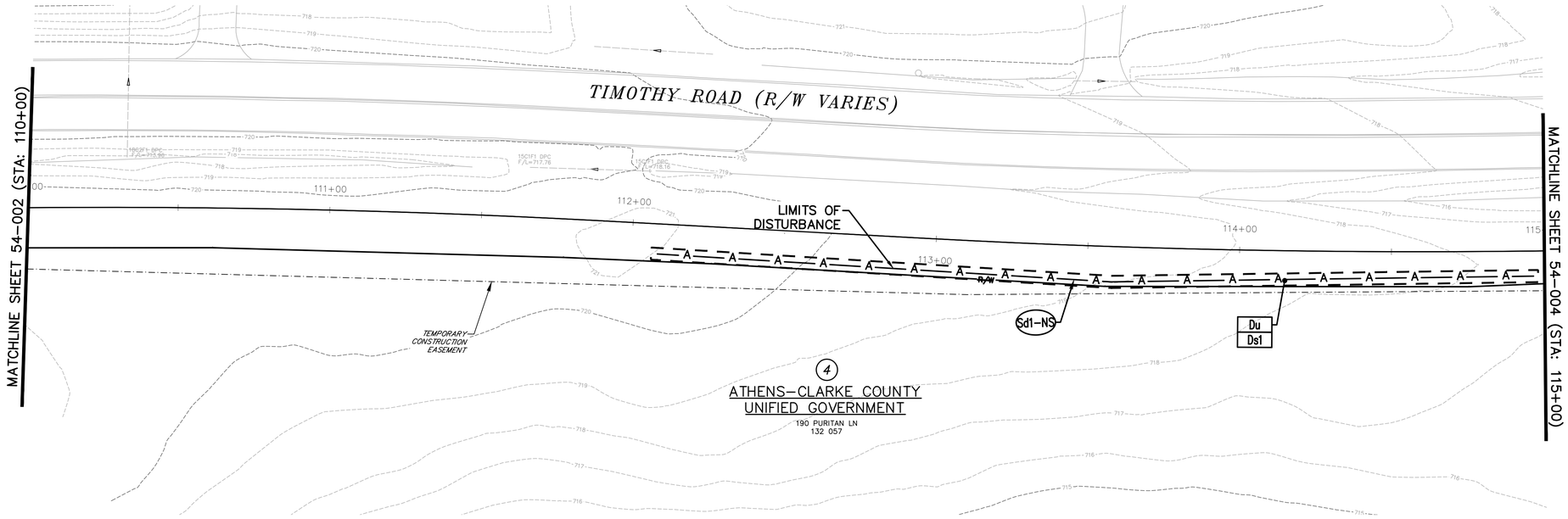
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-002



PHASE I DISTURBED AREA = 0.11 AC

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EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLAN - PHASE I

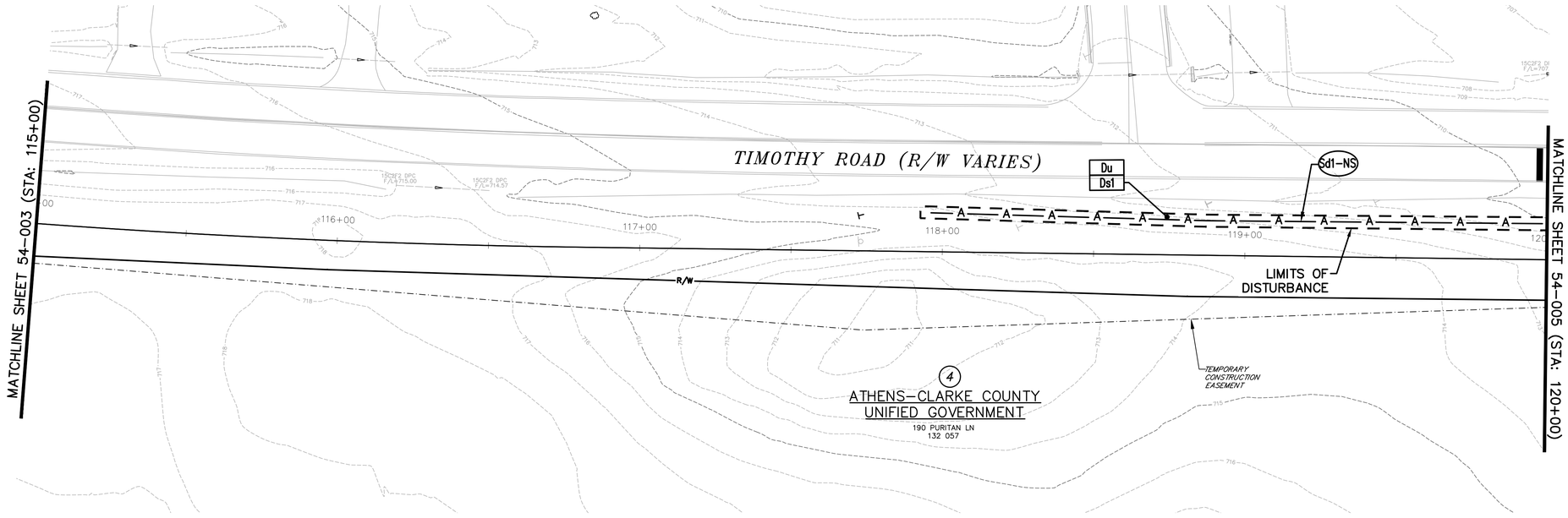
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 54-003



PHASE I DISTURBED AREA = 0.11 AC

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EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE I

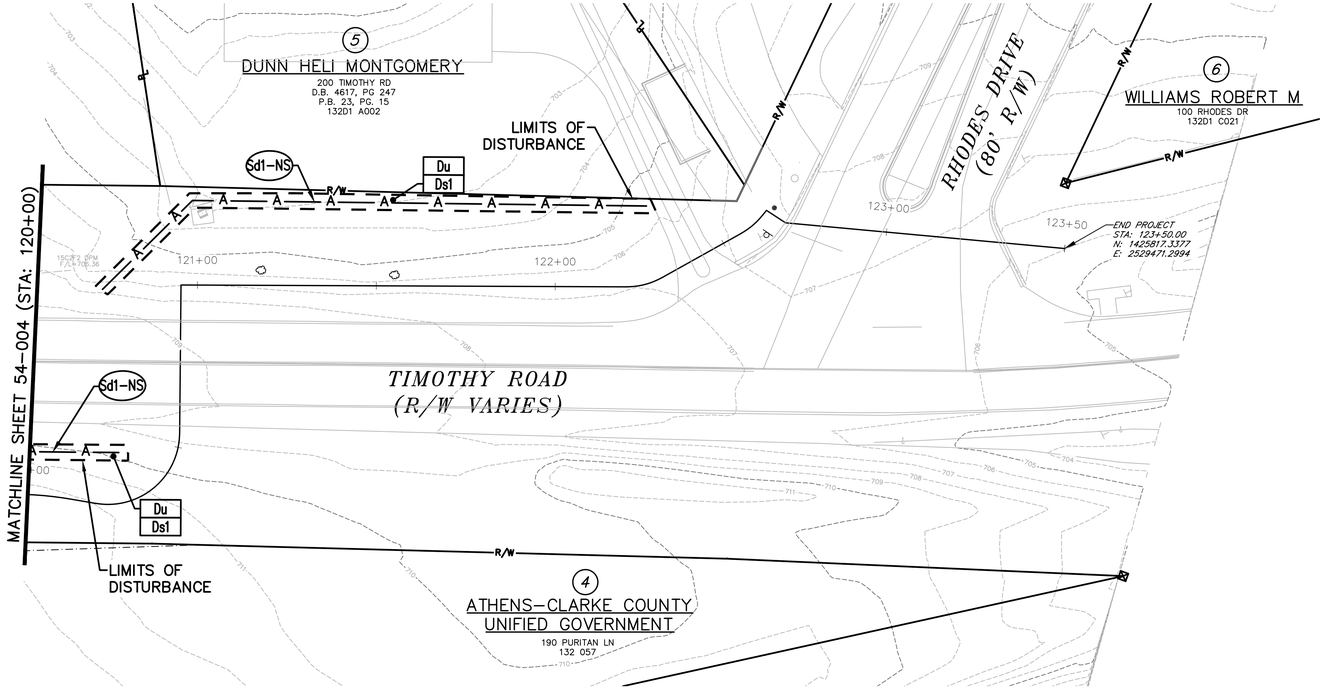
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-004



PHASE I DISTURBED AREA = 0.11 AC

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EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL VICTOR A. CONOVER ENGINEER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE I

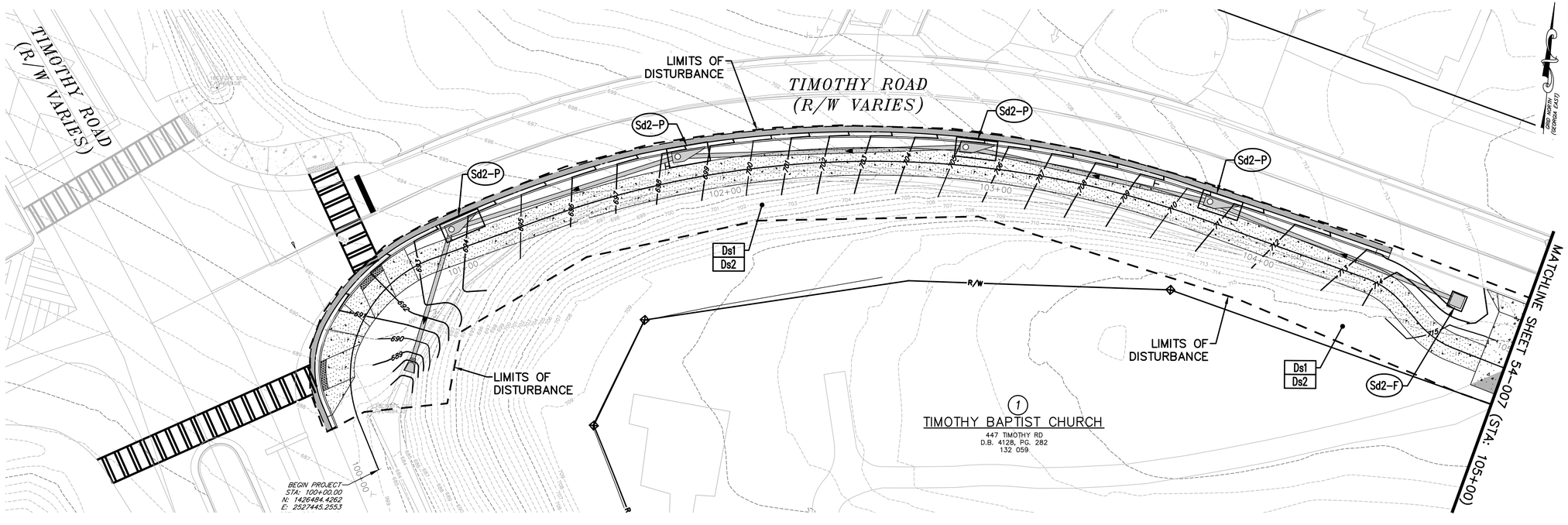
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 54-005



PHASE II DISTURBED AREA = 1.78 AC

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

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EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE II

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-006

PHASE II DISTURBED AREA = 1.78 AC

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

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EROSION CONTROL LEGEND

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Ds3	PERMANENT GRASSING
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Du	DUST CONTROL ON DISTURBED AREA
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Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
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Sd2-P	CURB INLET SEDIMENT TRAP
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ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE II

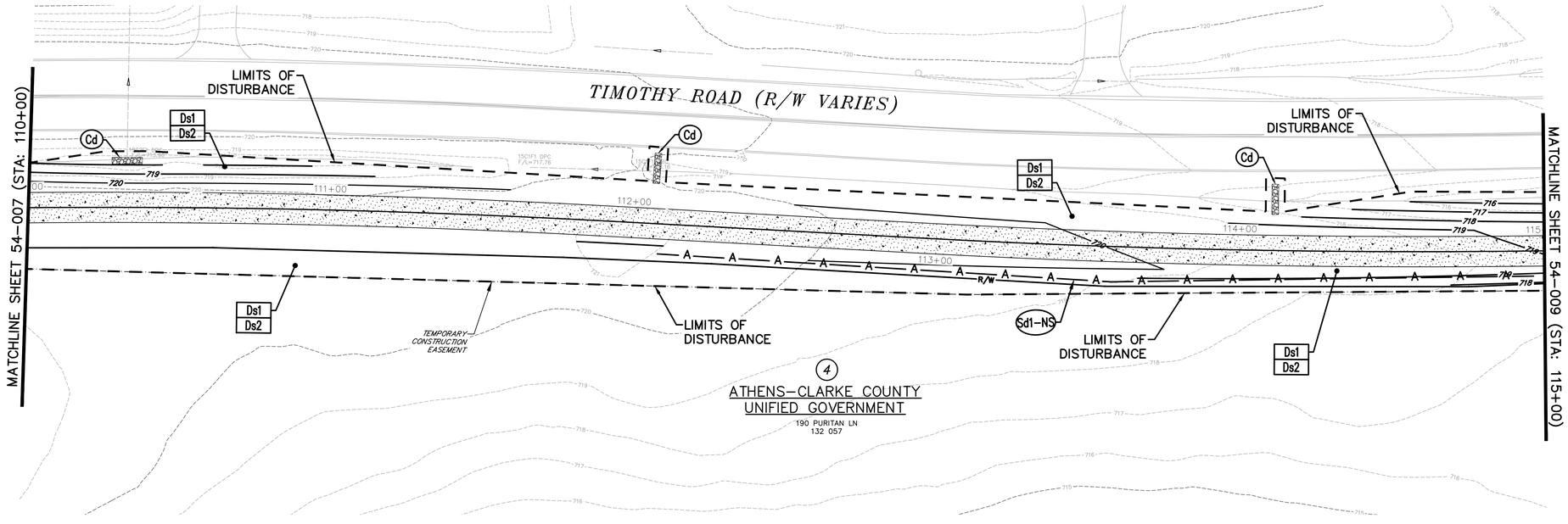
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-007



PHASE II DISTURBED AREA = 1.78 AC

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EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
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Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

VICTOR A. CONOVER — GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLAN - PHASE II

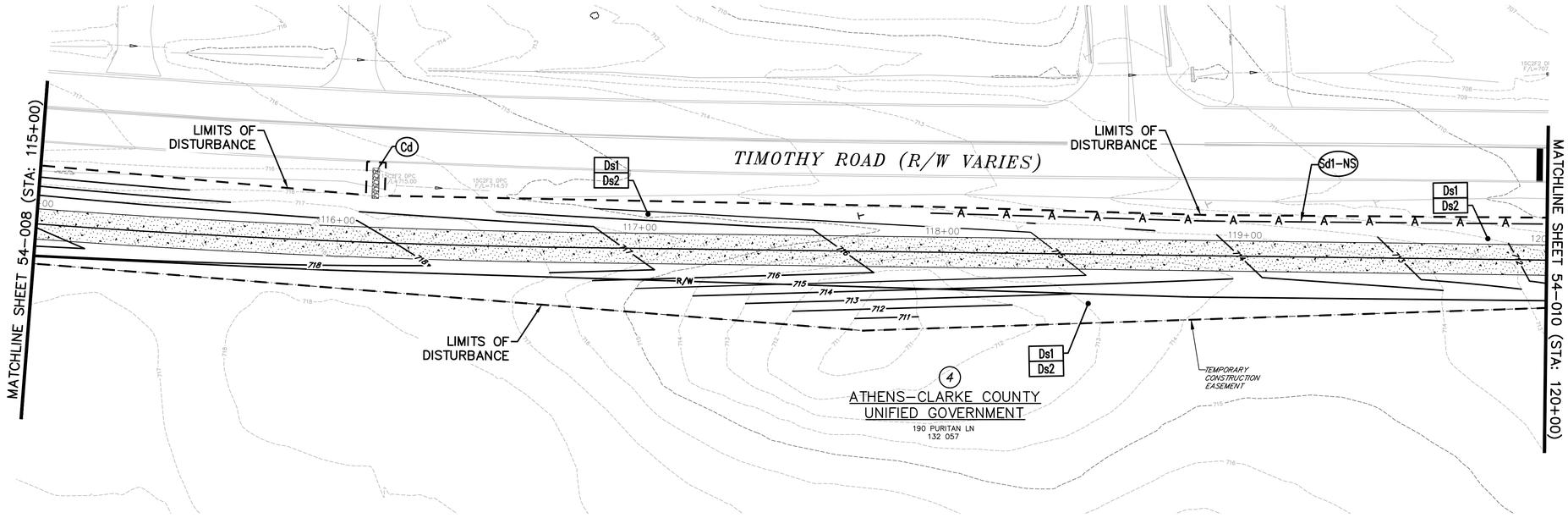
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 — IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-008



PHASE II DISTURBED AREA = 1.78 AC

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3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

EROSION CONTROL LEGEND

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE II

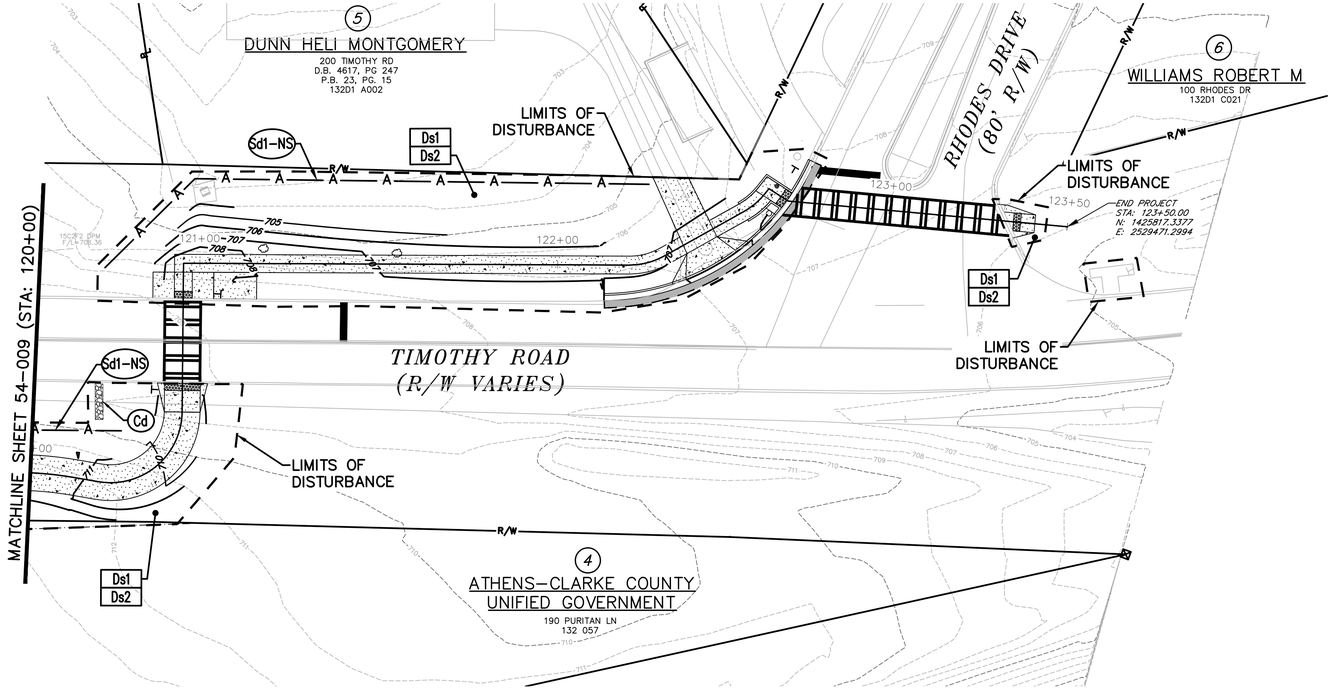
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-009



PHASE II DISTURBED AREA = 1.78 AC

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

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Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
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Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

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ATHENS-CLARKE COUNTY, GA

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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE II

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
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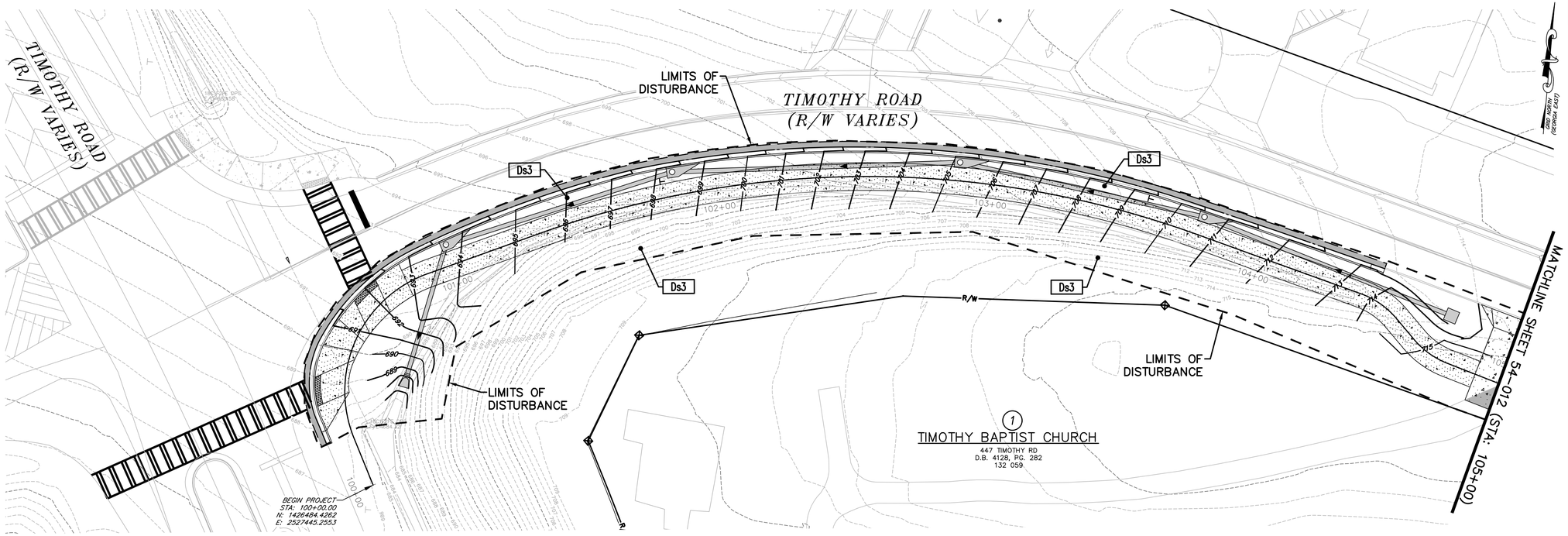
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 54-010



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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE III

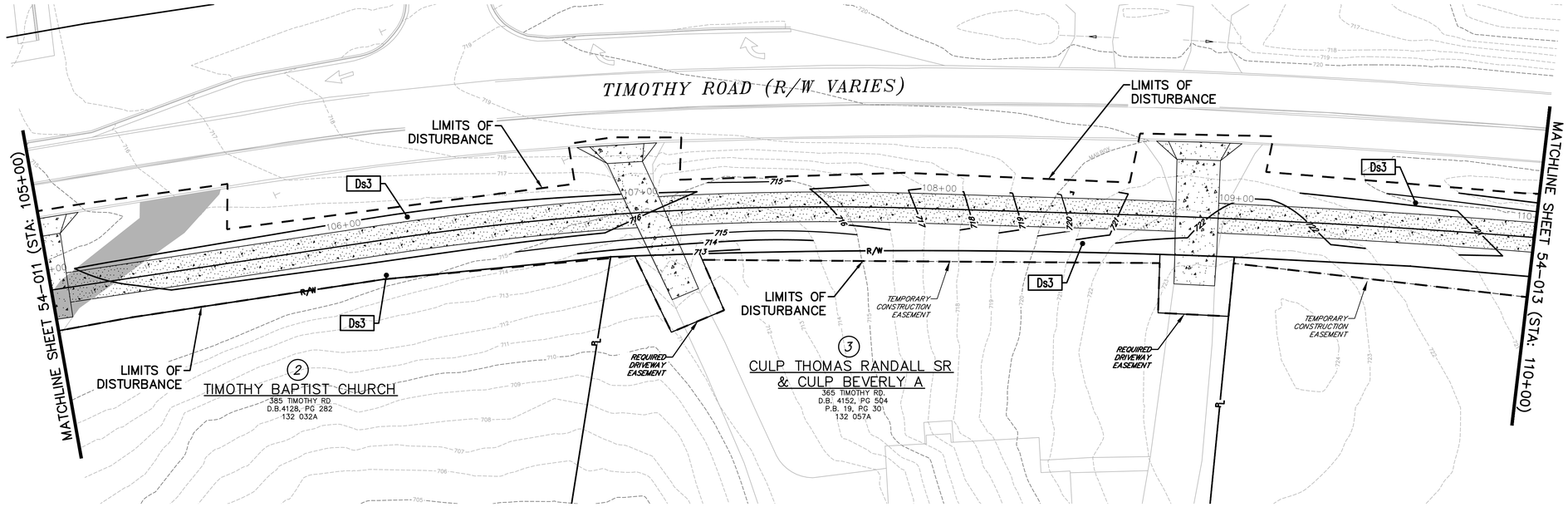
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 54-011



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PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

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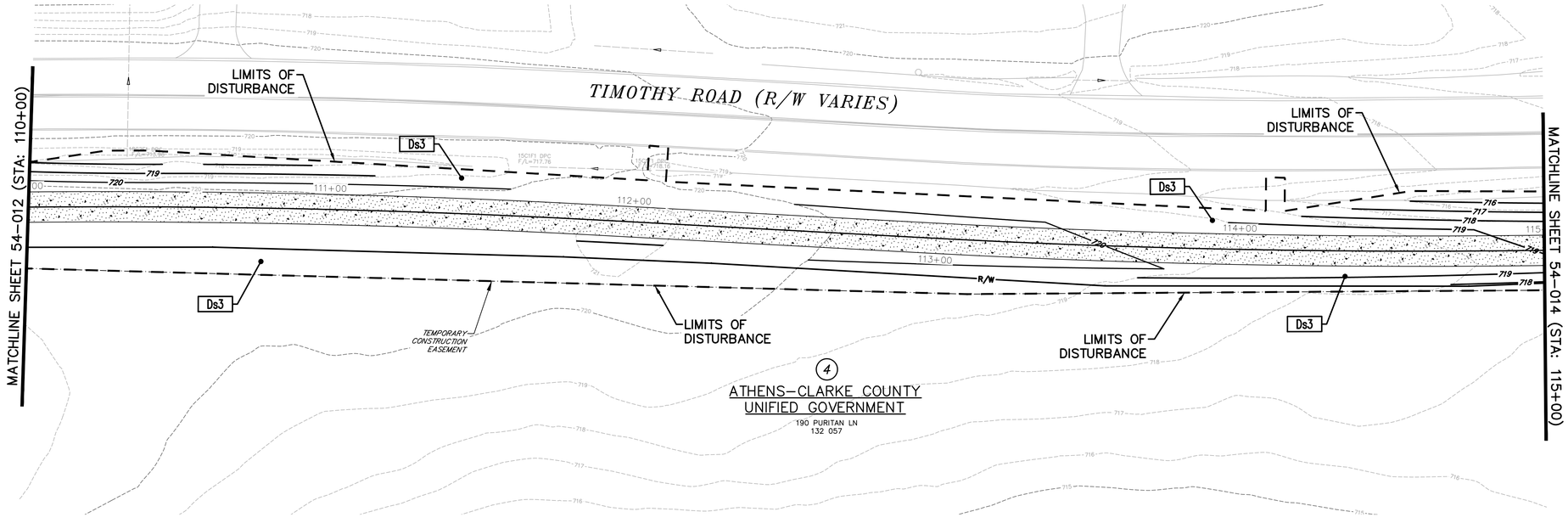
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-012



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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLAN - PHASE III

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

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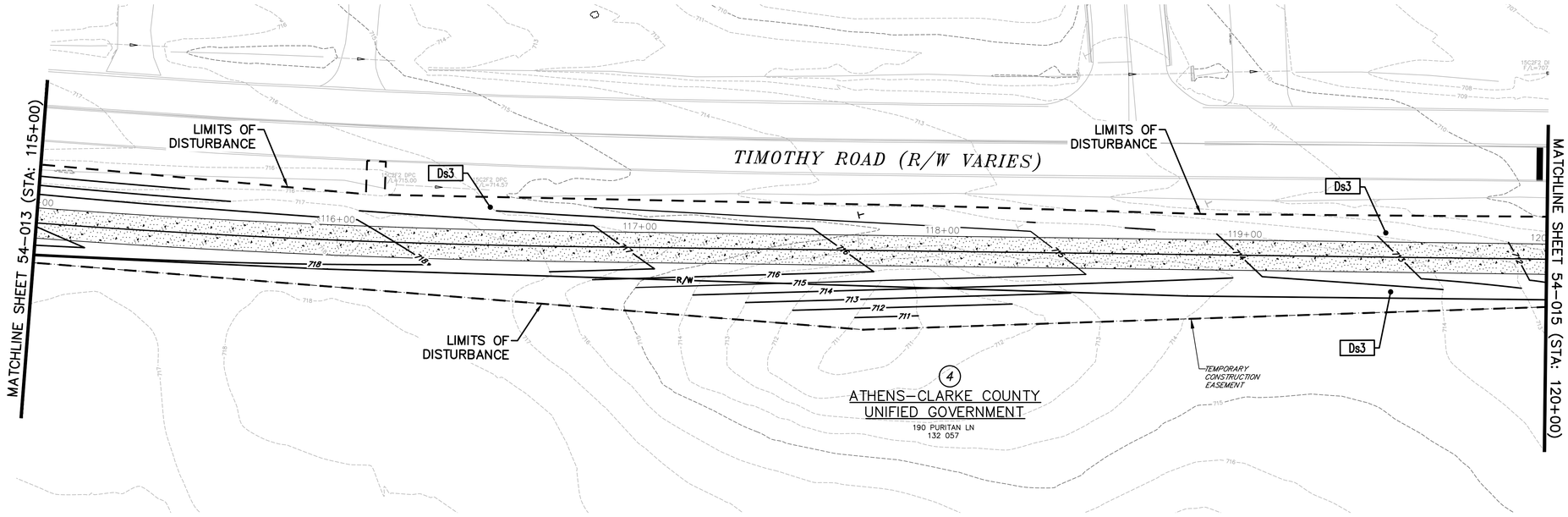
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-013



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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: EROSION CONTROL PLANS - PHASE III

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

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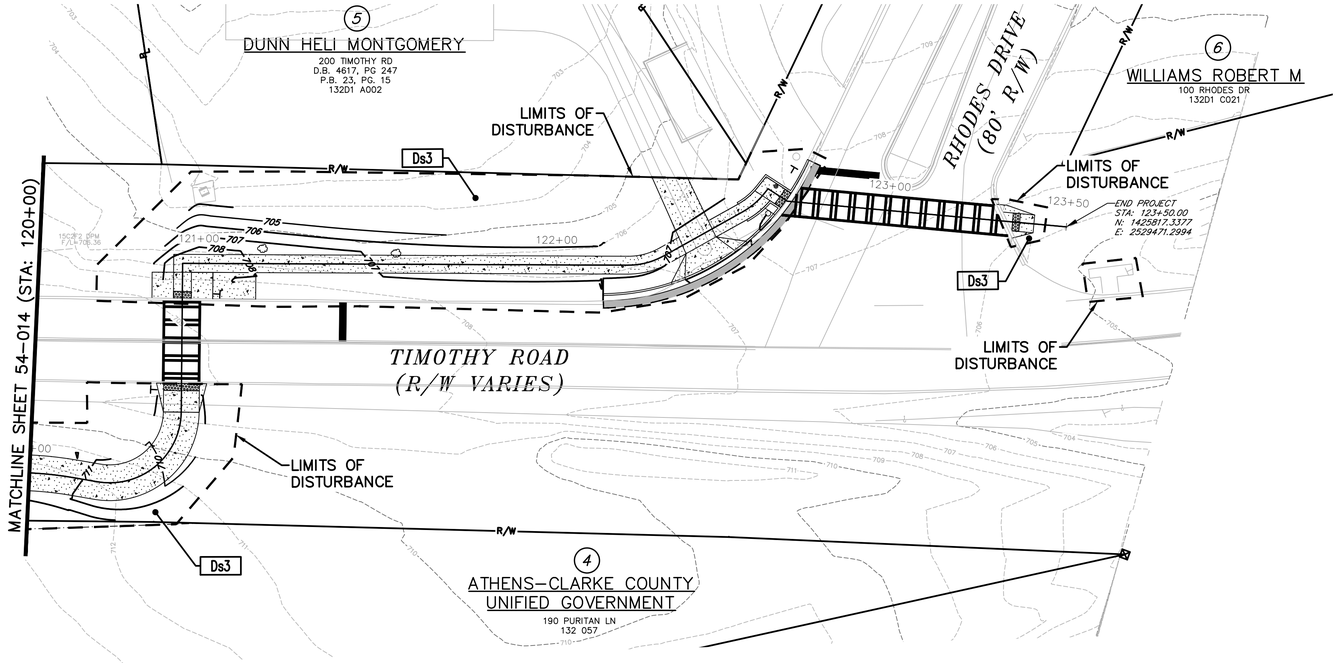
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 54-014



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PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

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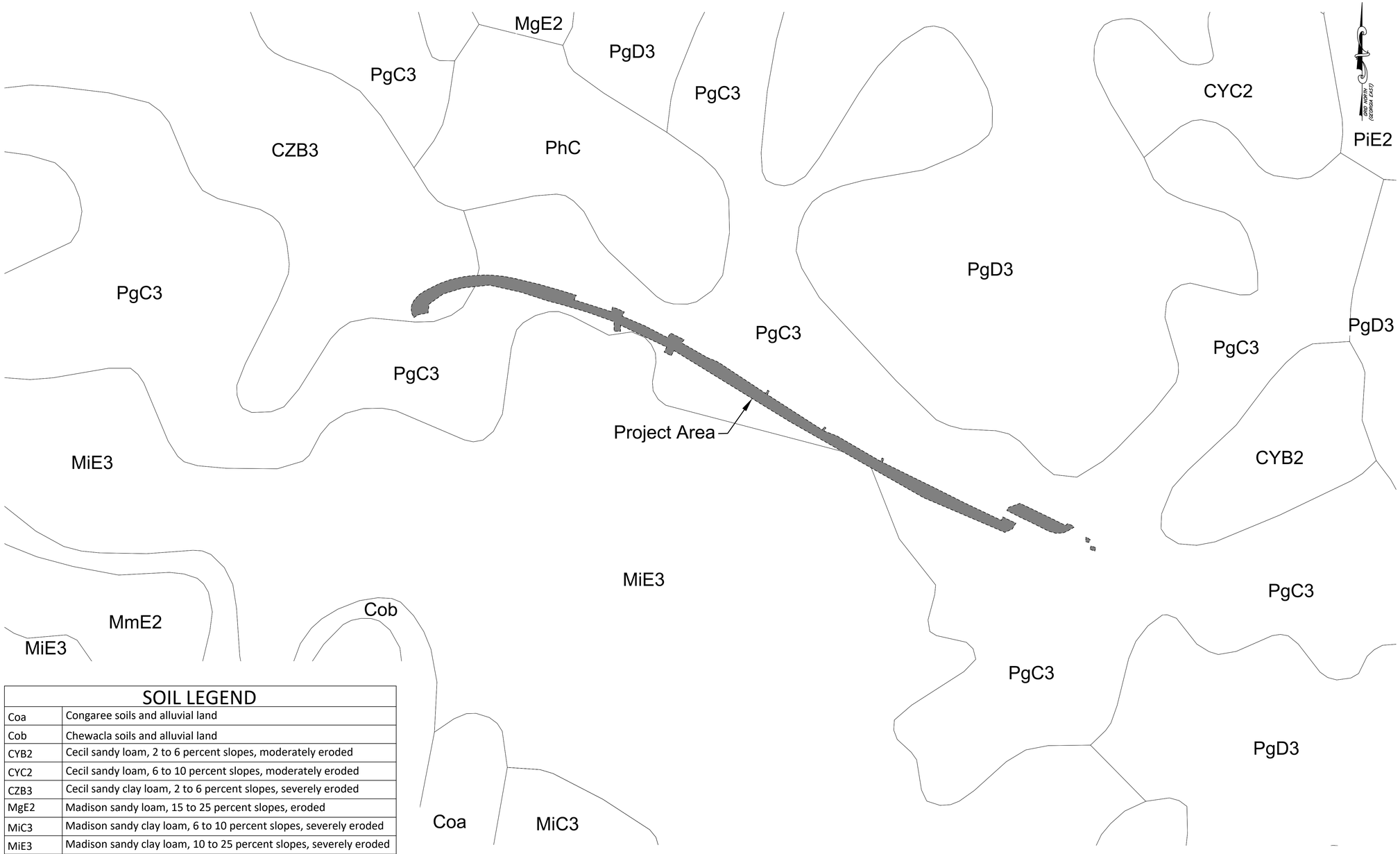

SOIL LEGEND	
Coa	Congaree soils and alluvial land
Cob	Chewacla soils and alluvial land
CYB2	Cecil sandy loam, 2 to 6 percent slopes, moderately eroded
CYC2	Cecil sandy loam, 6 to 10 percent slopes, moderately eroded
CZB3	Cecil sandy clay loam, 2 to 6 percent slopes, severely eroded
MgE2	Madison sandy loam, 15 to 25 percent slopes, eroded
MiC3	Madison sandy clay loam, 6 to 10 percent slopes, severely eroded
MiE3	Madison sandy clay loam, 10 to 25 percent slopes, severely eroded
MmE2	Madison-Louisa complex, 15 to 25 percent slopes, eroded
PgC3	Pacolet sandy clay loam, 6 to 10 percent slopes, severely eroded
PgD3	Pacolet sandy clay loam, 10 to 15 percent slopes, severely eroded
PhC	Pacolet-Gullied land complex, 6 to 10 percent slopes
PiE2	Pacolet stony sandy loam, 15 to 25 percent slopes, eroded

SOILS MAP
SCALE: NTS

SOIL INFORMATION TAKEN FROM USDA - NATIONAL RESOURCES CONSERVATION SERVICE

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REVISION BLOCK

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EXPIRES 05-01-2026

SHEET TITLE: SOIL MAP

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
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DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
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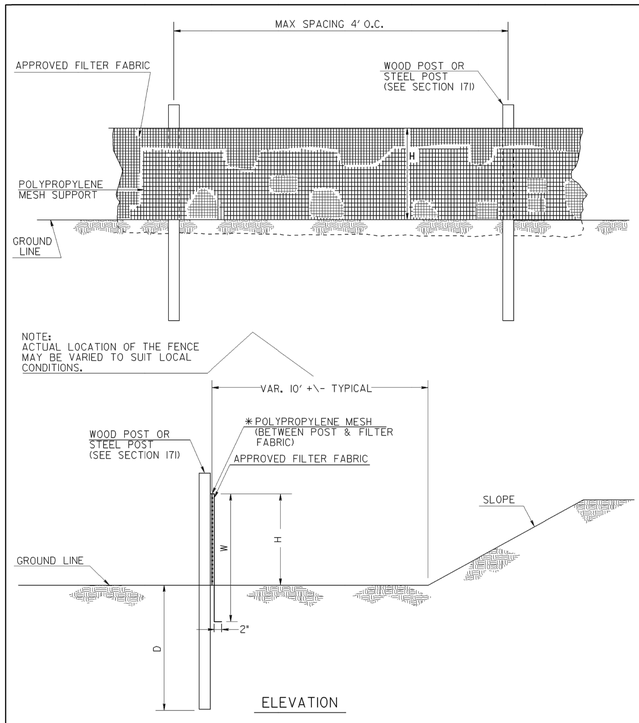
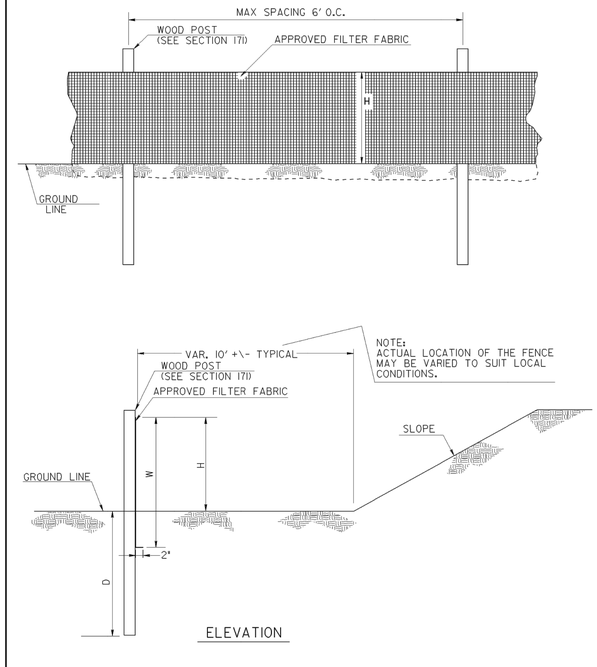
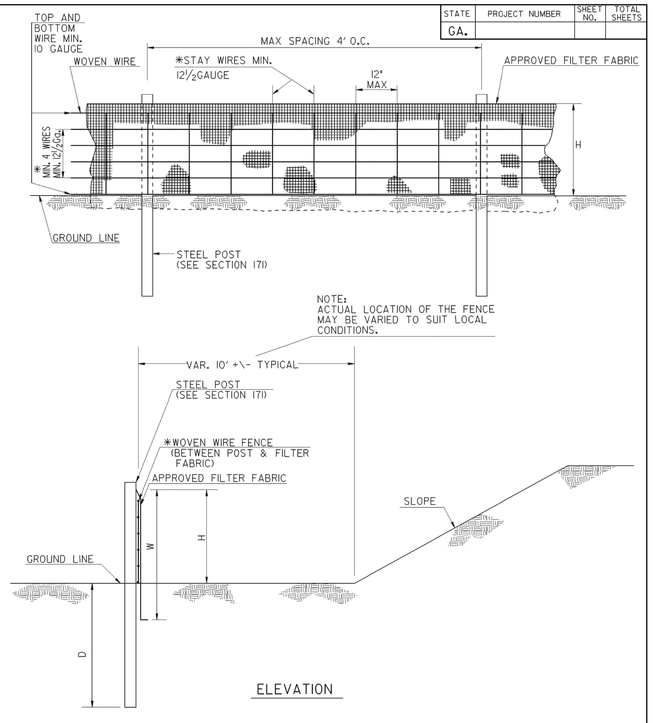


SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT



SINGLE ROW TYPE A SILT FENCE



SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS. DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE QPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

NO SCALE — REV. AND REDRAWN JAN. 2011

NUMBER D-24A (SHEET 1 OF 4)

DATE / REVISION / BY

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED VICTOR A. CONOVER No. 32681 PROFESSIONAL ENGINEER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

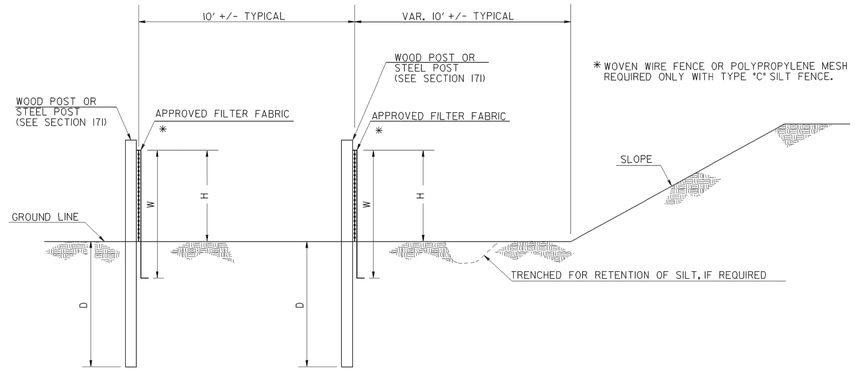
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 56-001

1/18/2011 2:04:43 PM \\GDOT-DSNI\GOPLOT\GCF\GO_Klp8000.gcf gowens V:\GARY\Rev. Construction Details\D-24B\D-24B.prf GO-RD6

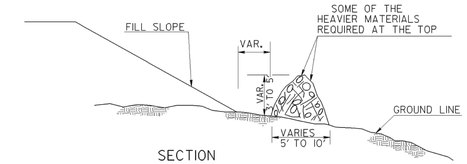


ELEVATION

DOUBLE ROW SILT FENCE

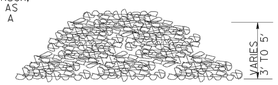
FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



SECTION

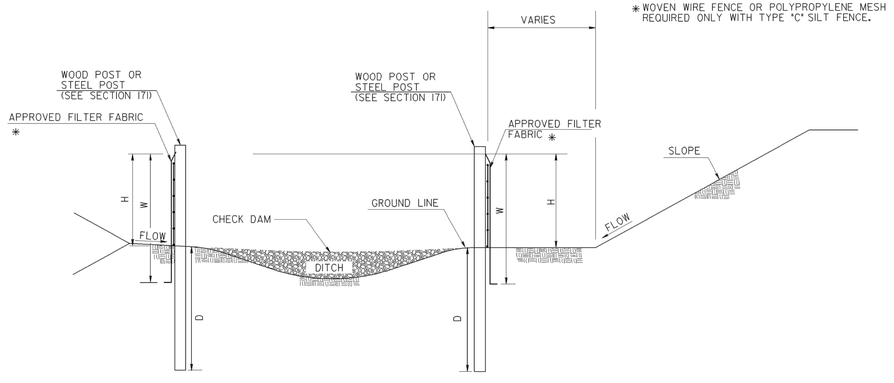
NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.



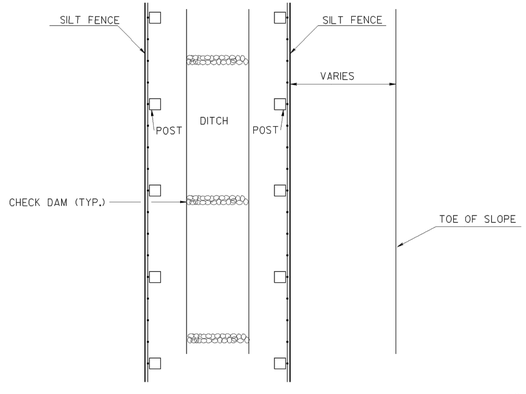
FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

BERM DITCH, INSTALLATION, BRUSH BARRIER

NO SCALE — REV. AND REDRAWN JAN. 2011

NUMBER D-24B (SHEET 2 OF 4)

DATE / REVISION / BY

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REV. NO. | DATE | REVISION DESCRIPTION | BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN, PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

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DRAWING FILE: 19023002E.DWG
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ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 56-002

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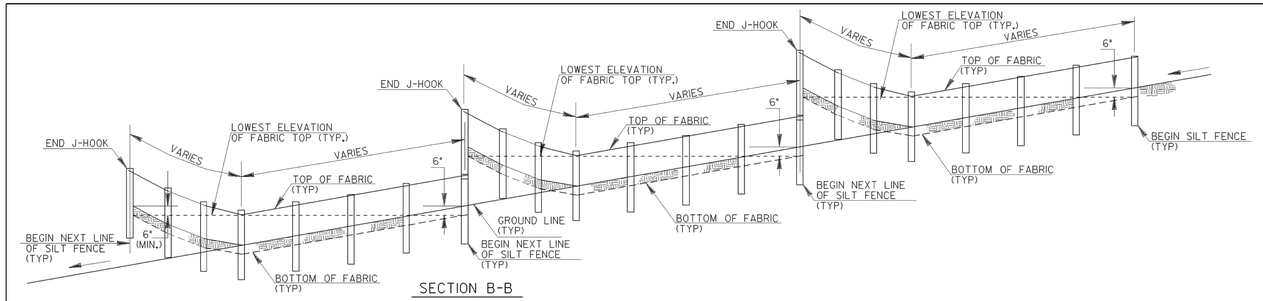
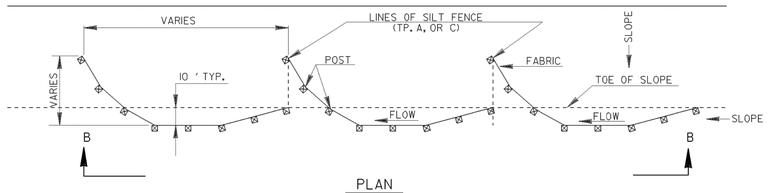
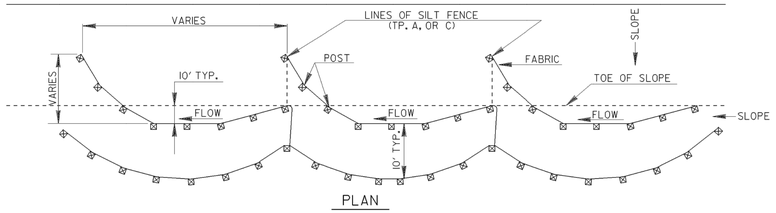


SECTION B-B



PLAN

SINGLE ROW SILT FENCE



PLAN

DOUBLE ROW SILT FENCE

TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:

1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

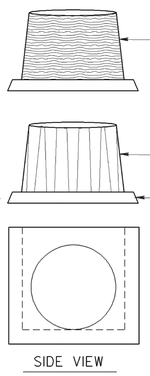
(PLASTIC ALTERNATE)

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

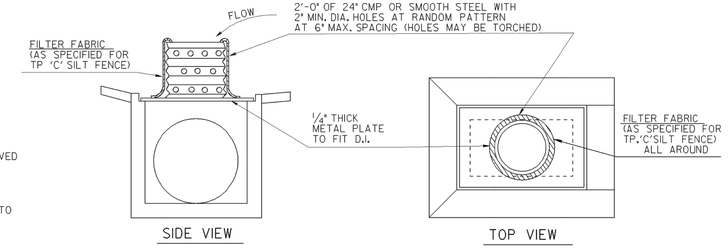
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

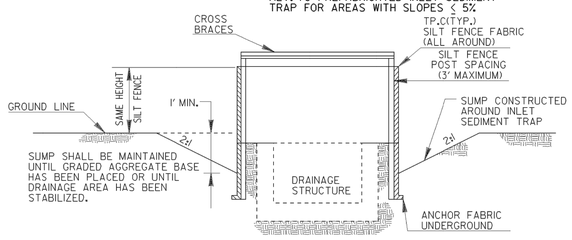
NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

INLET SEDIMENT TRAP - FOR DROP INLETS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

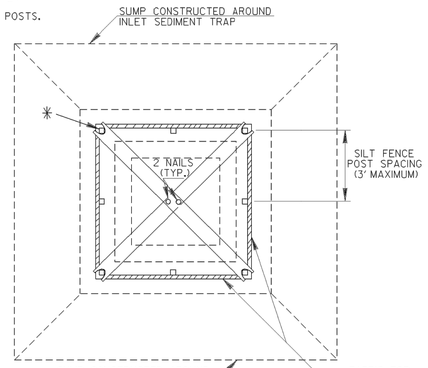
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES ≤ 5%



ELEVATION

✳ CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



PLAN

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

NO SCALE — JANUARY 2011

NUMBER D-24C (SHEET 3 OF 4)

DATE | REVISION | BY

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REV. NO.	DATE	DESCRIPTION
		REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
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DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 56-003

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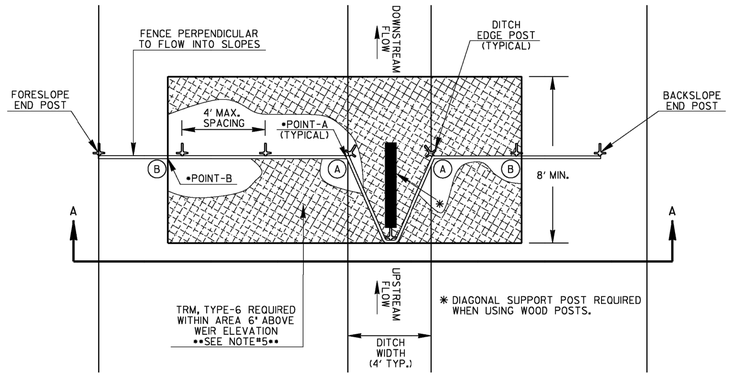
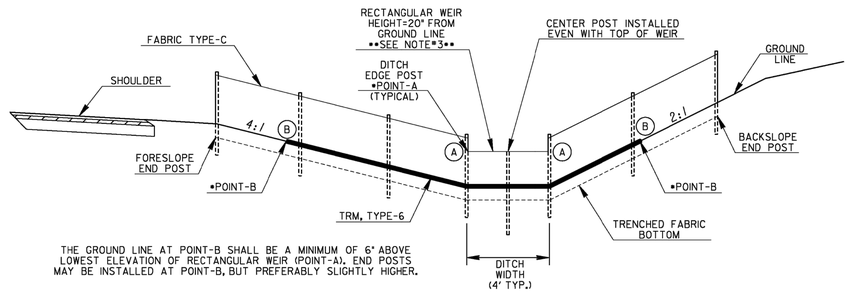


PLAN VIEW

TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±

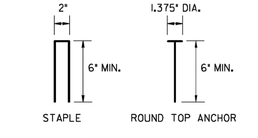


THE GROUND LINE AT POINT-B SHALL BE A MINIMUM OF 6" ABOVE LOWEST ELEVATION OF RECTANGULAR WEIR (POINT-A). END POSTS MAY BE INSTALLED AT POINT-B, BUT PREFERABLY SLIGHTLY HIGHER.

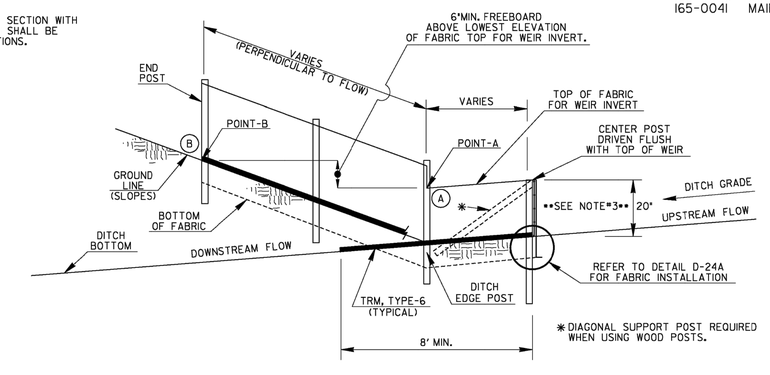
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
   - A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
   - B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
   - C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
   - D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
   - E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
   - F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

REVISION	BY	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
FABRIC CHECK DAM

NO SCALE REV. AND REDRAWN, JULY 2015

NUMBER D-24D (SHEET 4 OF 4)

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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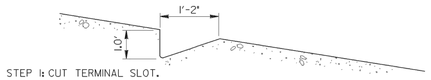
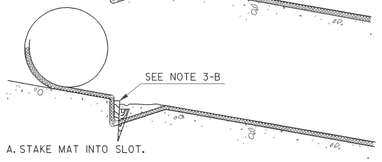
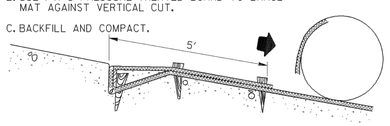


STEP 1: CUT TERMINAL SLOT.

STEP 2: SNUG MAT INTO SLOT.

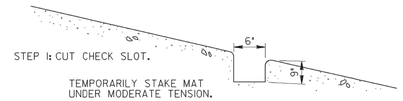


STEP 3:
A. STAKE MAT INTO SLOT.
B. USE 1" X 3" PRESSURE-TREATED BOARD TO BRACE MAT AGAINST VERTICAL CUT.
C. BACKFILL AND COMPACT.



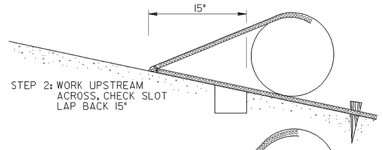
STEP 4:
A. REVERSE MAT ROLL DIRECTION TO OVERLAY CHECK SLOT
B. STAKE MAT TO ANCHOR TERMINAL.

UPSTREAM TERMINAL

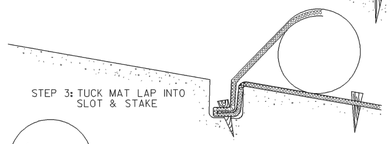


STEP 1: CUT CHECK SLOT.

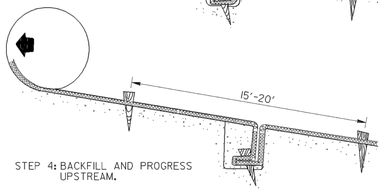
TEMPORARILY STAKE MAT UNDER MODERATE TENSION.



STEP 2: WORK UPSTREAM ACROSS, CHECK SLOT LAP BACK 15"



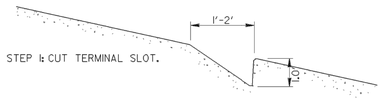
STEP 3: TUCK MAT LAP INTO SLOT & STAKE



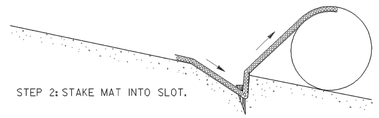
STEP 4: BACKFILL AND PROGRESS UPSTREAM.

PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING.

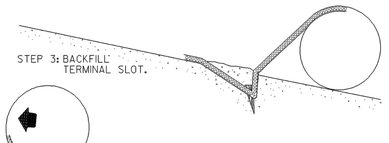
TRANSVERSE CHECK SLOT



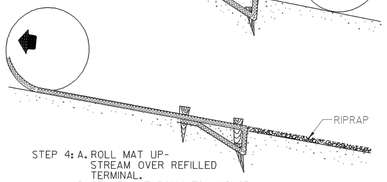
STEP 1: CUT TERMINAL SLOT.



STEP 2: STAKE MAT INTO SLOT.

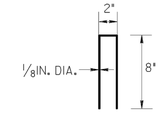


STEP 3: BACKFILL TERMINAL SLOT.

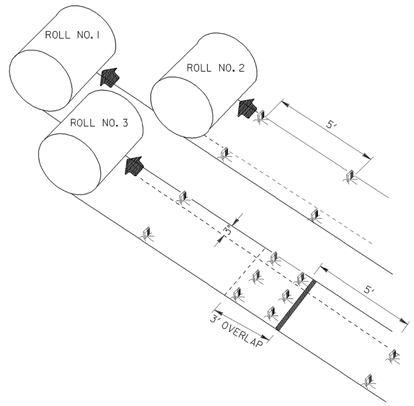


STEP 4: A. ROLL MAT UP-STREAM OVER REFILLED TERMINAL.
B. STAKE MAT DOWN TO ANCHOR TERMINAL.
C. PROGRESS UPSTREAM WITH ROLL.

DOWNSTREAM TERMINAL



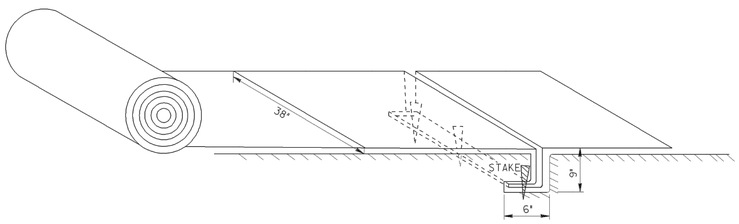
METAL MATTING - BLANKET STAPLE



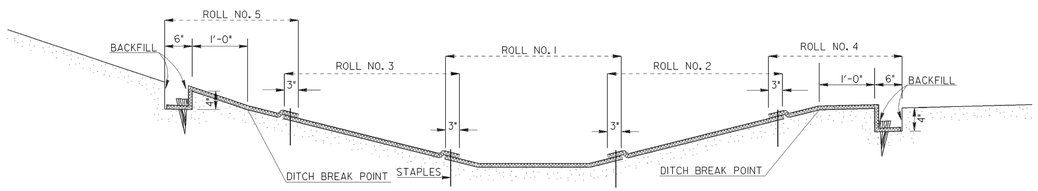
SEQUENTIAL ROLL RUN OUT IN CHANNELS

GENERAL NOTES

1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
3. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
6. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.



PICTORAL VIEW OF TRANSVERSE SLOT



DITCH SECTION

NOTE: MAT TO BE PLACED ONE FEET ABOVE DITCH BREAK POINT OR ONE FOOT ABOVE THE 25 YEAR STORM.

T.P.C.	REVISED SHEET LAYOUT & ADDED DITCH SECTION. ADDED METAL STAPLE.	1-19-11		DATE
BY	REVISION			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
PERMANENT SOIL REINFORCING MAT
(TURF REINFORCING MATS)
INSTALLATION ON DITCHES

NO SCALE — AUGUST 1988

Designed ____
Drawn K.L.J.
Traced ____
Checked ____

NUMBER D-35

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REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32881 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

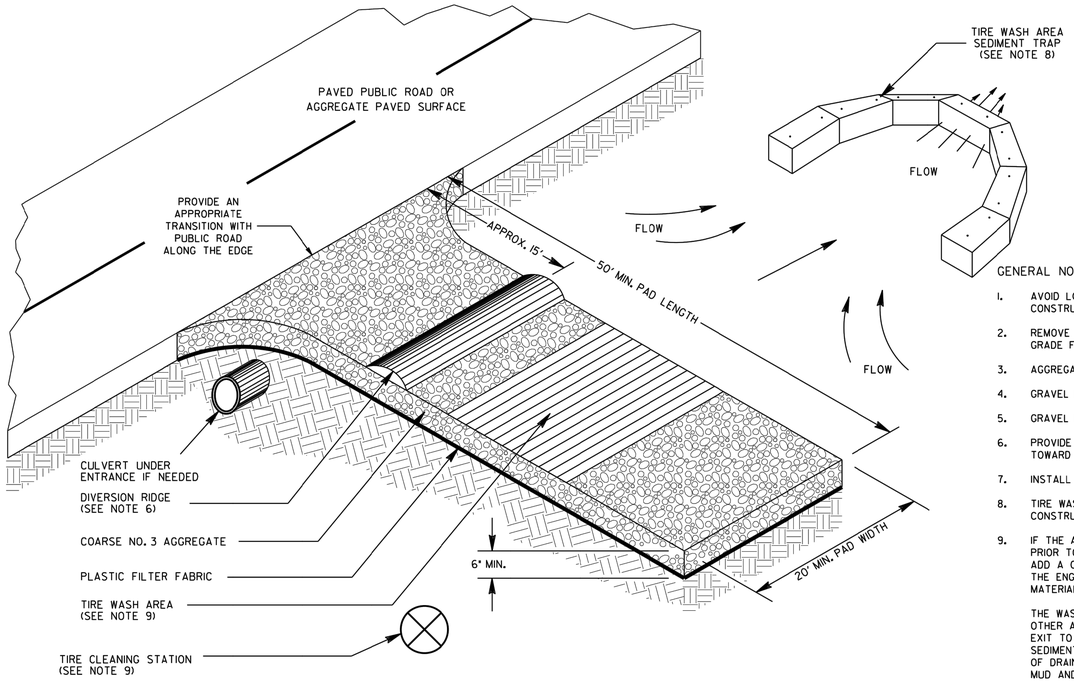
PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

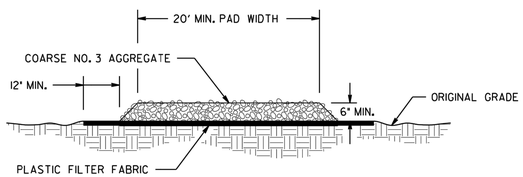
Sheet: 56-005

1/18/2011 9:32:29 AM \\GDOT-DSNI\GOPLOT\GCF\GO_Klp8000.gcf gowens V:\GARY\Rev. Construction Details\D-35\D-35.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



ENTRANCE ELEVATION



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK. THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

    SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:

163-0301	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	(EA)

PAY ITEM: FOR FIELD USE ONLY ACCORDING TO SECTION 163

163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION	(DAY)

BY	REVISION	DATE
HAC	REV GEN NOTES + 8-11	11-04-20
	REV PAY ITEM DESCS/REFS	
DLE	REV. TIRE WASH & NOTES	04-16-18
DLE	REV. GSWCC 2016 MANUAL	04-22-16
DPC	REV. CONSTR. EXIT LABELS	01-06-11

DESIGNED ____
DRAWN DLE
TRACED ____
CHECKED ____

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

CONSTRUCTION EXIT

NO SCALE FEBRUARY 2001

NUMBER D-41

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REV. NO.	DATE	DESCRIPTION
		REVISION BLOCK

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

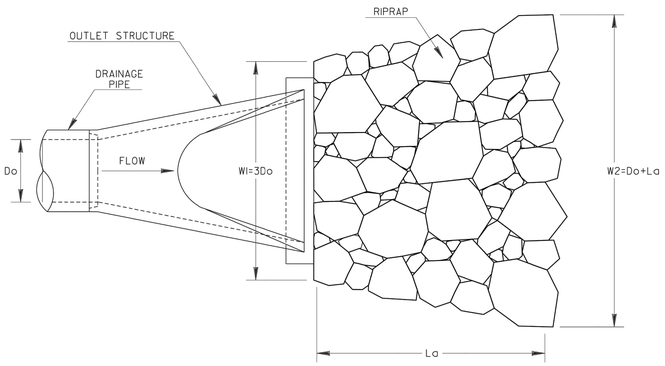
PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

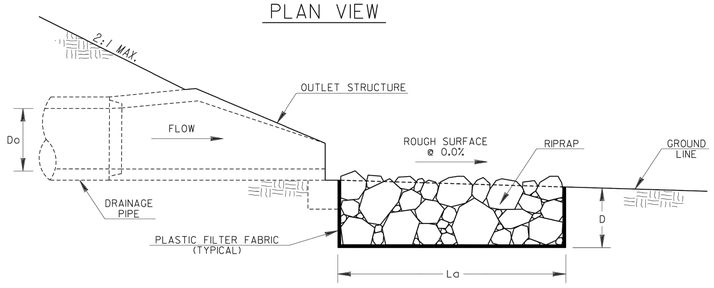
Sheet: 56-006

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET TO FLAT AREA

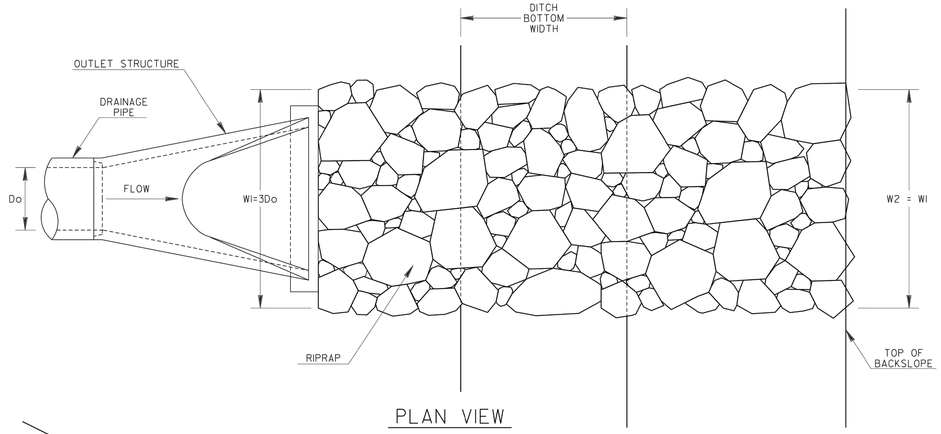


PLAN VIEW

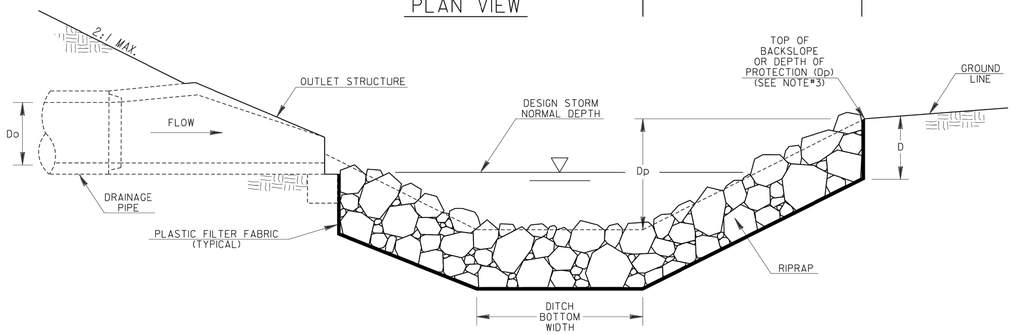


PROFILE VIEW

OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (Wl), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La = APRON LENGTH
Wl = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 1 OF 2)

NO SCALE 4-22-2016

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-55A

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32881 PROFESSIONAL ENGINEER VICTOR A. CONOVER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

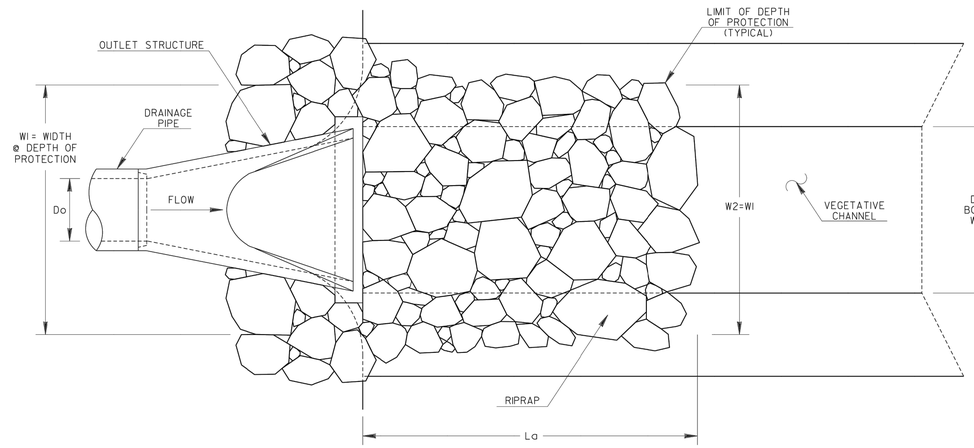
PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

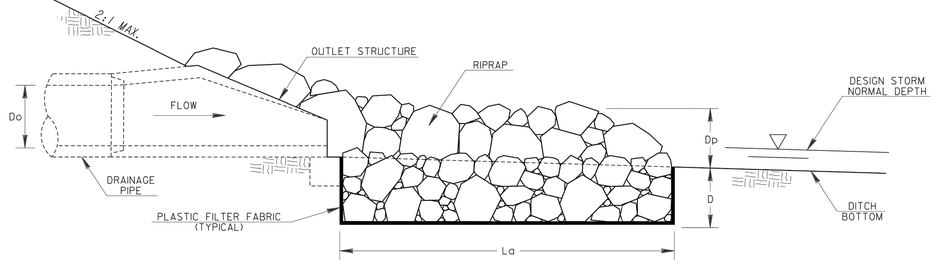
Sheet: 56-007

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET PARALLEL TO WELL-DEFINED CHANNEL

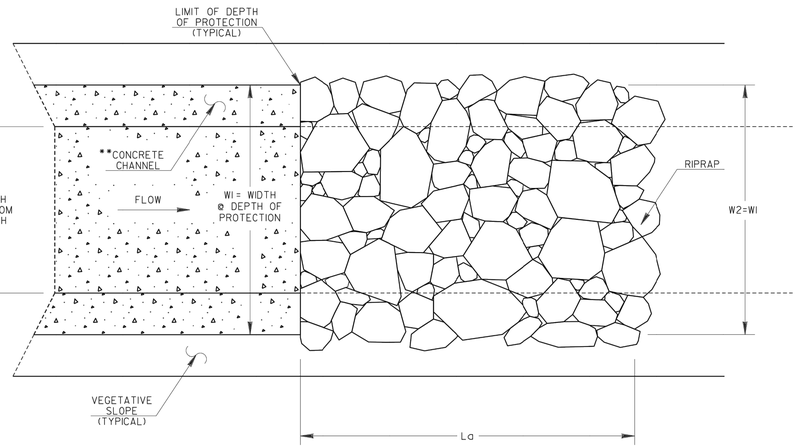


PLAN VIEW



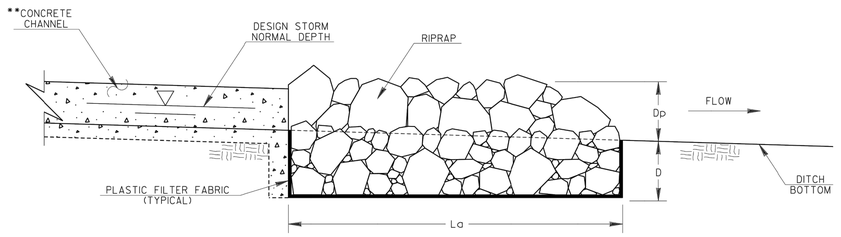
PROFILE VIEW

CONCRETE CHANNEL TO RIPRAP TRANSITION



**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION

PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.

2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (WI), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.

3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.

4. IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
   IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
La = APRON LENGTH
WI = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Dp = DEPTH OF PROTECTION

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 2 OF 2)

NO SCALE 4-22-2016

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-55B

REVISION DATE BY

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

REV. NO. | DATE | DESCRIPTION | REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER

LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026

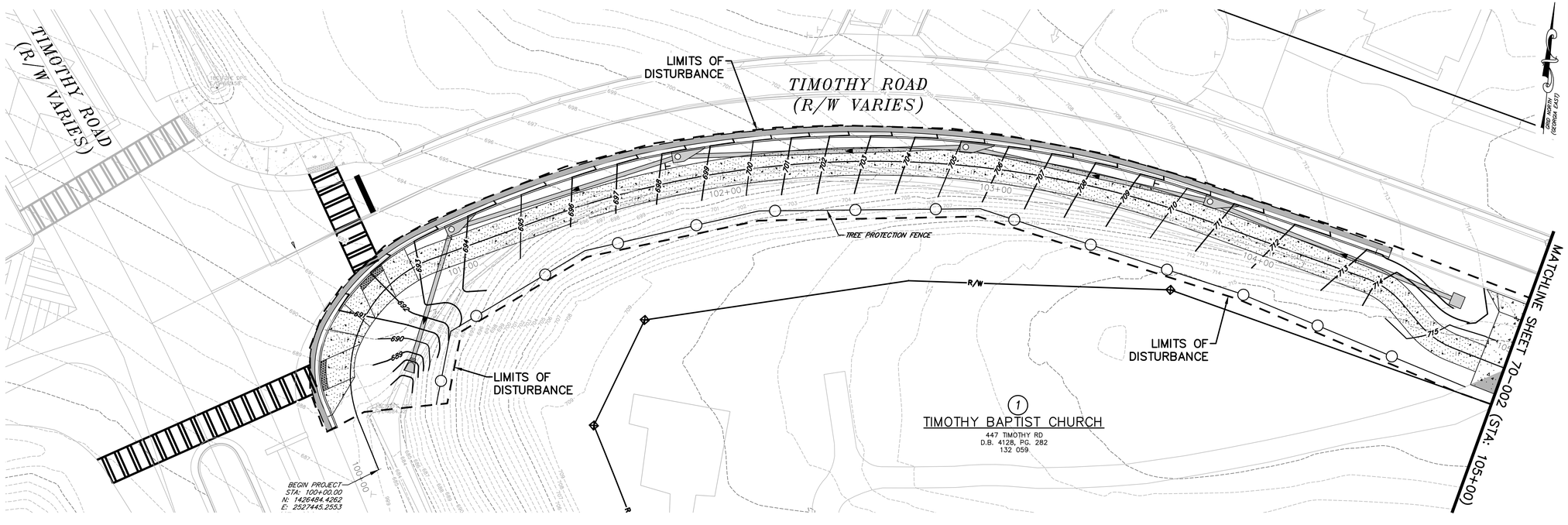
SHEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 56-008



NOTE:

1. TREE PROTECTON FENCING SHALL BE INSTALLED ALONG THE EXISTING OR ACQUIRED EASEMENTS AS SHOWN.
2. BEFORE CONSTRUCTION ACTIVITIES BEGIN (SUCH AS TRENCHING FOR EROSION CONTROL AND TREE FELLING OPERATIONS) FOR THE INSTALLATION OF EROSION CONTROL FENCING, THE CONTRACTOR SHALL FLAG THE LIMITS OF DISTURBANCE AND THEN CONDUCT AN ON SITE REVIEW WITH THE PROJECT OWNER/MANAGER AND THE ATHENS CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR TO DETERMINE THE LOCATIONS OF BOTH EROSION CONTROL FENCING AND TREE PROTECTION FENCING. IN COORDINATION WITH SPLOST, THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR SHALL HAVE THE AUTHORITY TO MAKE ADJUSTMENTS TO THE TREE PROTECTION FENCING FOR THE DURATION OF THE PRE-CONSTRUCTION AND CONSTRUCTION PHASES OF THE PROJECT.
3. TREE PROTECTION FENCING SHALL BE ERECTED BEFORE ANY SITE WORK BEGINS TO PRESERVE THE ROOT ZONES OF DESIRABLE TREES OR TREED AREAS THAT HAVE BEEN SELECTED FOR PRESRVATION. THE PURPOSE OF TREE PROTECTION FENCING IS TO LIMIT AND PREVENT UNNECESSARY DISTURBANCES (SUCH AS THE PARKING OF VEHICLES OR EQUIPMENT OR STORAGE OF CONSTRUCTION MATERIALS) IN THE CRITICAL ROOT ZONES (CRZ) OF THE TREE PRESERVATION AREAS. TREE PROTECTION FENCING SHALL CONSIST OF 4 FOOT HIGH PLASTIC SNOW FENCING, WHICH SHALL BE HUNG FROM HEAVY WIRE ATTACHED BETWEEN STURDY POSTS.
4. TREE PROTECTION SIGNS SHALL BE PLACED IN CLEARLY VISIBLE LOCATIONS IN TWO PLACES AROUND ANY SINGLE TREE AND EVERY 30 FEET ALONG THE FENCING ALONGSIDE TREED AREAS. TREE PROTECTION SIGNS WILL BE A MINIMUM OF 11 BY 17 INCHES AND MADE OF A WEATHERPROOF STURDY MATERIAL, SUCH AS PLASTIC OR LAMINATED PAPER. TREE PROTECTION SIGNS WILL BE KEPT IN GOOD CONDITION AND SHALL BE REPLACED IF THE TEXT BECOMES UNREADABLE. TREE PROTECTION SIGNS SHALL INCLUDE THE SPLOST AND ATHENS-CLARKE COUNTY LOGOS AND SHALL STATE "TREE PROTECTION ZONE" IN A VERY LARGE, BOLD FONT AND SHALL READ:.
   - 4.1. NO ENTRY, GRADE CHANGE, STORAGE, OR TEMPORARY STORAGE OF ANY MATERIALS OR EQUIPMENT, WASHING OF EQUIPMENT, NOR THE DUMPING OR PILING OF ANY MATERIALS OR DEBRIS PERMITTED IN THE TREE PROTECTION ZONE.
   - 4.2. THE TREE PROTECTION BARRIER MUST NOT BE ALTERED, MOVED, OR REMOVED WITHOUT THE WRITTEN PERMISSION OF SPLOST IN COORDINATION OF THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR (JEANNE.CONNELL@ACCGOV.COM)

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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: TREE MANAGEMENT PLAN

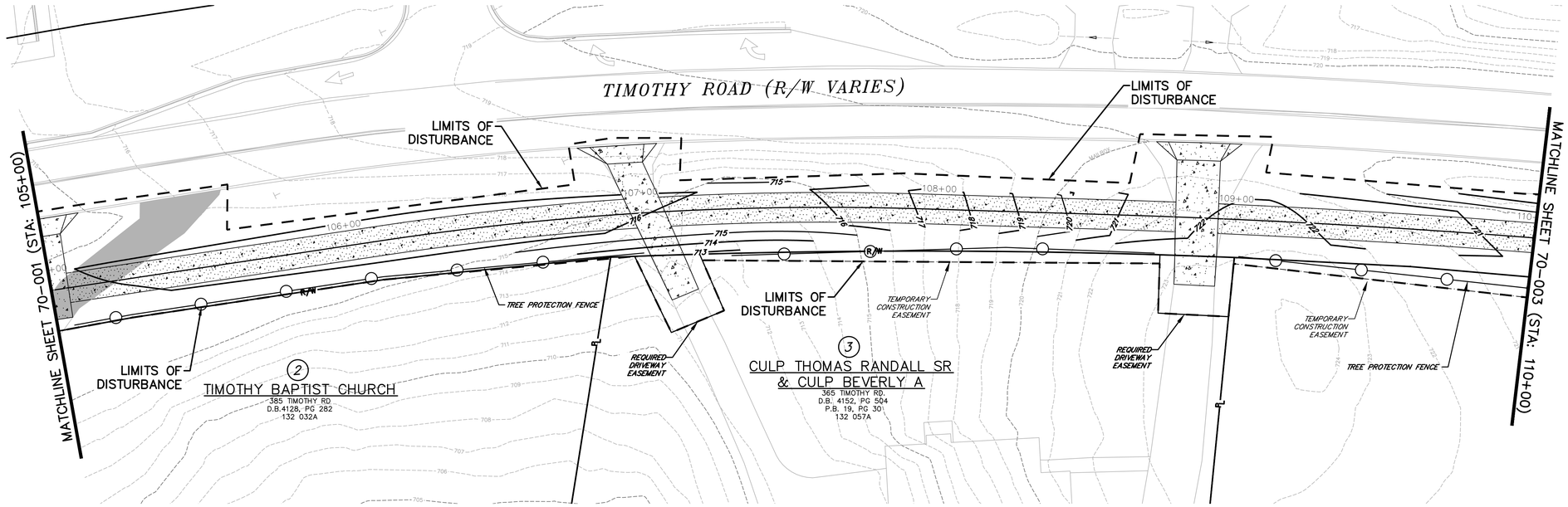
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
70-001



NOTE:

1. TREE PROTECTON FENCING SHALL BE INSTALLED ALONG THE EXISTING OR ACQUIRED EASEMENTS AS SHOWN.
2. BEFORE CONSTRUCTION ACTIVITIES BEGIN (SUCH AS TRENCHING FOR EROSION CONTROL AND TREE FELLING OPERATIONS) FOR THE INSTALLATION OF EROSION CONTROL FENCING, THE CONTRACTOR SHALL FLAG THE LIMITS OF DISTURBANCE AND THEN CONDUCT AN ON SITE REVIEW WITH THE PROJECT OWNER/MANAGER AND THE ATHENS CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR TO DETERMINE THE LOCATIONS OF BOTH EROSION CONTROL FENCING AND TREE PROTECTION FENCING. IN COORDINATION WITH SPLOST, THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR SHALL HAVE THE AUTHORITY TO MAKE ADJUSTMENTS TO THE TREE PROTECTION FENCING FOR THE DURATION OF THE PRE-CONSTRUCTION AND CONSTRUCTION PHASES OF THE PROJECT.
3. TREE PROTECTION FENCING SHALL BE ERECTED BEFORE ANY SITE WORK BEGINS TO PRESERVE THE ROOT ZONES OF DESIRABLE TREES OR TREED AREAS THAT HAVE BEEN SELECTED FOR PRESRVATION. THE PURPOSE OF TREE PROTECTION FENCING IS TO LIMIT AND PREVENT UNNECESSARY DISTURBANCES (SUCH AS THE PARKING OF VEHICLES OR EQUIPMENT OR STORAGE OF CONSTRUCTION MATERIALS) IN THE CRITICAL ROOT ZONES (CRZ) OF THE TREE PRESERVATION AREAS. TREE PROTECTION FENCING SHALL CONSIST OF 4 FOOT HIGH PLASTIC SNOW FENCING, WHICH SHALL BE HUNG FROM HEAVY WIRE ATTACHED BETWEEN STURDY POSTS.
4. TREE PROTECTION SIGNS SHALL BE PLACED IN CLEARLY VISIBLE LOCATIONS IN TWO PLACES AROUND ANY SINGLE TREE AND EVERY 30 FEET ALONG THE FENCING ALONGSIDE TREED AREAS. TREE PROTECTION SIGNS WILL BE A MINIMUM OF 11 BY 17 INCHES AND MADE OF A WEATHERPROOF STURDY MATERIAL, SUCH AS PLASTIC OR LAMINATED PAPER. TREE PROTECTION SIGNS WILL BE KEPT IN GOOD CONDITION AND SHALL BE REPLACED IF THE TEXT BECOMES UNREADABLE. TREE PROTECTION SIGNS SHALL INCLUDE THE SPLOST AND ATHENS-CLARKE COUNTY LOGOS AND SHALL STATE "TREE PROTECTION ZONE" IN A VERY LARGE, BOLD FONT AND SHALL READ:.
   - 4.1. NO ENTRY, GRADE CHANGE, STORAGE, OR TEMPORARY STORAGE OF ANY MATERIALS OR EQUIPMENT, WASHING OF EQUIPMENT, NOR THE DUMPING OR PILING OF ANY MATERIALS OR DEBRIS PERMITTED IN THE TREE PROTECTION ZONE.
   - 4.2. THE TREE PROTECTION BARRIER MUST NOT BE ALTERED, MOVED, OR REMOVED WITHOUT THE WRITTEN PERMISSION OF SPLOST IN COORDINATION OF THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR (JEANNE.CONNELL@ACCGOV.COM)

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

GEORGIA REGISTERED No. 32681 PROFESSIONAL ENGINEER VICTOR A. CONOVER
LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: TREE MANAGEMENT PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
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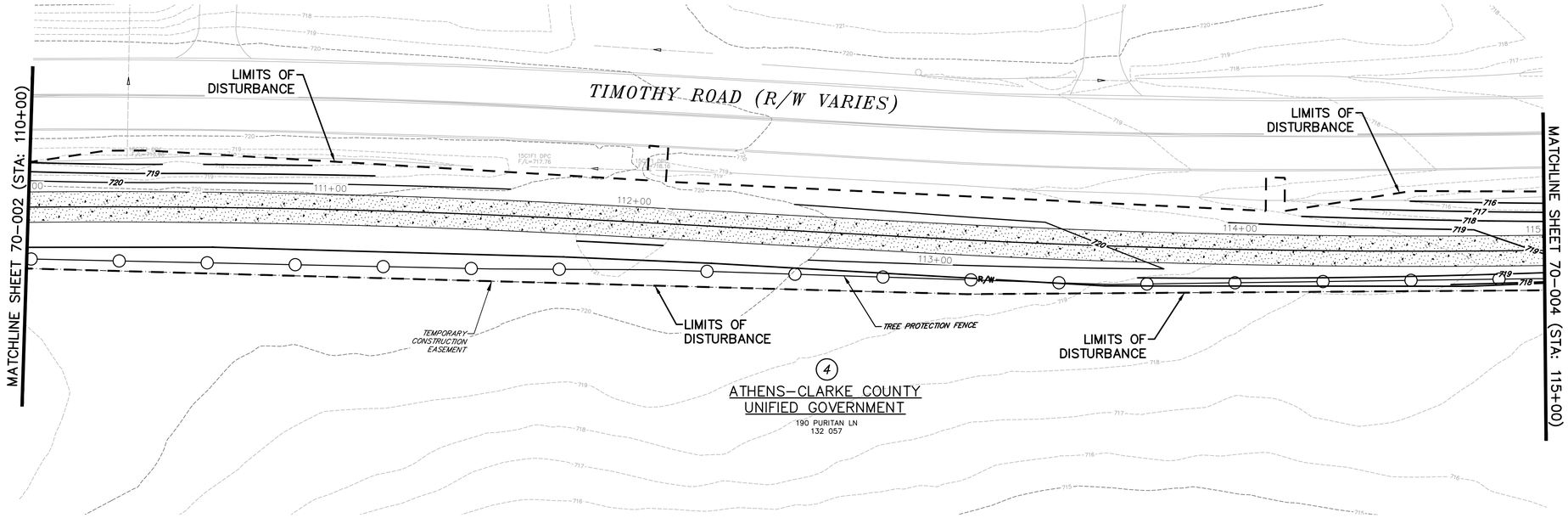
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 70-002



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SHEET TITLE: TREE MANAGEMENT PLAN

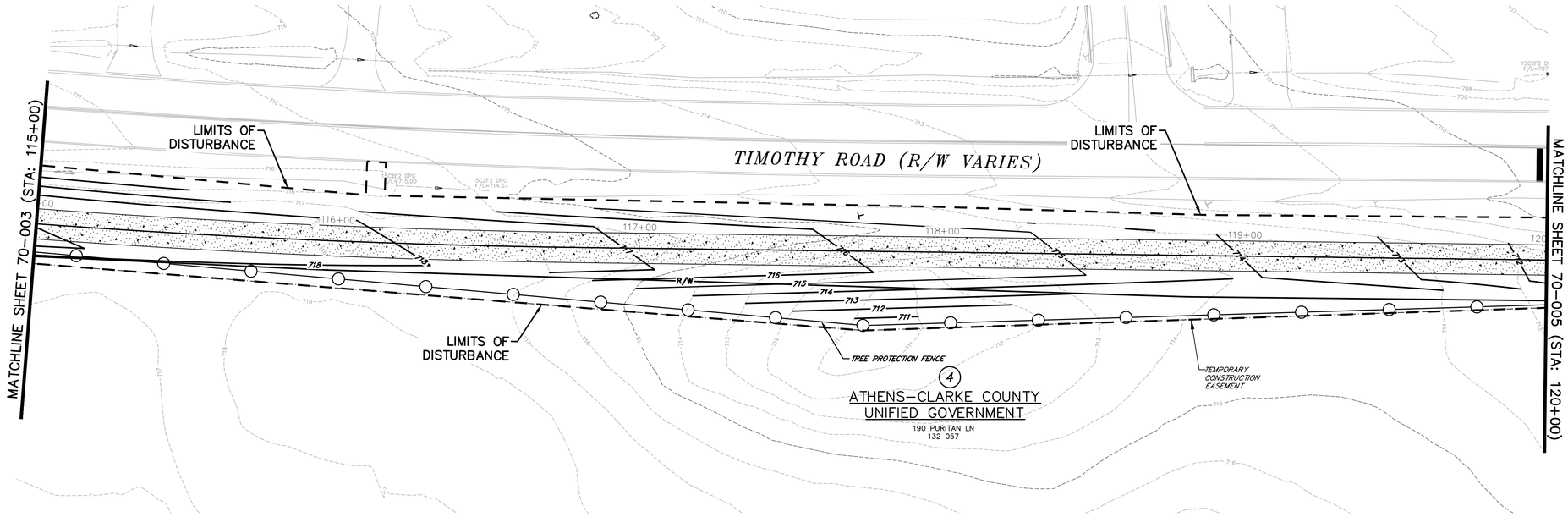
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 70-003



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EXPIRES 05-01-2026

SHEET TITLE: TREE MANAGEMENT PLAN

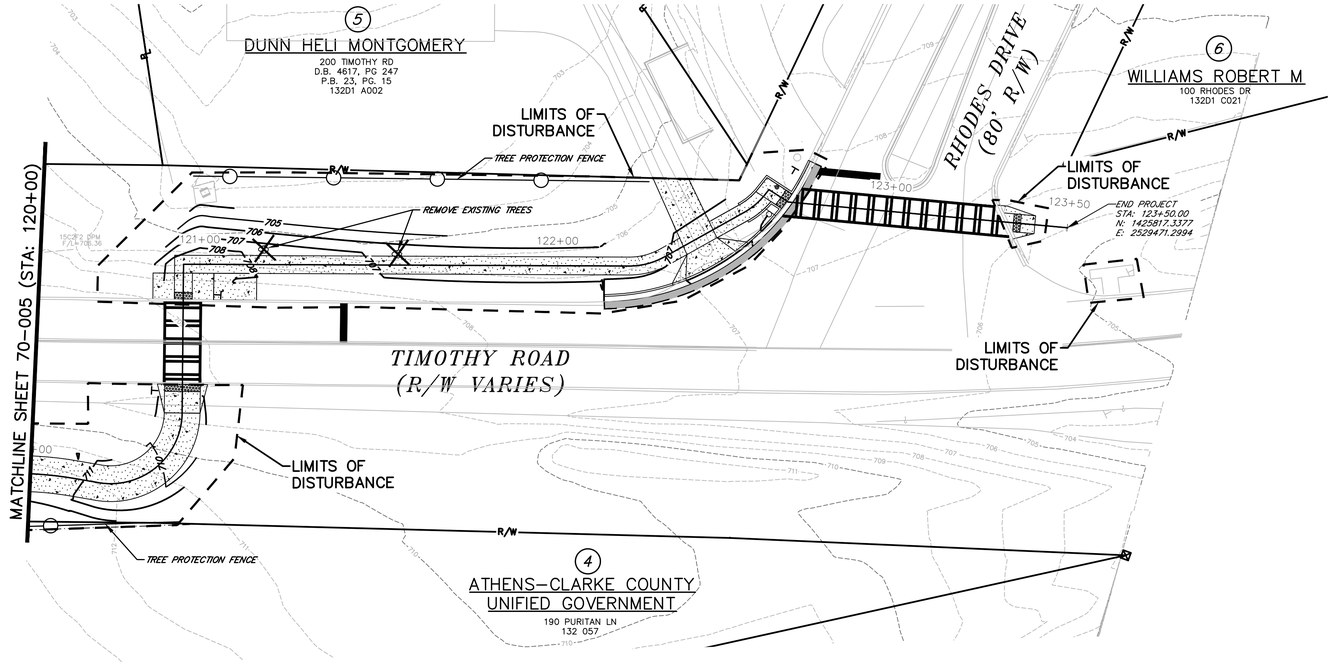
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 70-004



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LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE: TREE MANAGEMENT PLAN

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

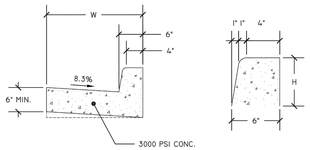
SCALE: 20 0 20 IN FEET

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 70-005

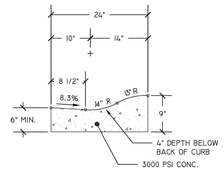
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



TYPE	H	W	DESIGNATION
2-A	6"	24"	6"x24"x12"
2-B	6"	30"	6"x30"x12"
3	8"	30"	8"x30"x14"

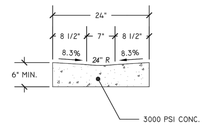
Notes:
1. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
2. Construction Joints to placed every 10 L.F.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
4. All exposed surfaces to be broom finished.
5. Gutter thickness may be increased to match paving course.

HIGH BACK CURB & GUTTER
NTS



Notes:
1. Use of Rollover Curb requires the approval of the Director of Transportation and Public Works.
2. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
3. Construction Joints to placed every 10 L.F.
4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
5. All exposed surfaces to be broom finished.
6. Gutter thickness may be increased to match paving course.

ROLLOVER CURB
NTS



Notes:
1. For use along on-street parking when approved by the Department Director.
2. ½" Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
3. Construction Joints to placed every 10 L.F.
4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".
5. All exposed surfaces to be broom finished.
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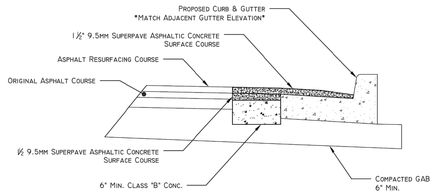
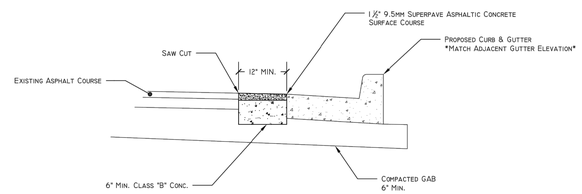
VALLEY GUTTER
NTS





Notes:
1. For installation of curb and gutter along existing streets with excavated area width is less than 5'.
2. Use typical section detail for excavated areas wider than 5'.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".

CLASS "B" CONCRETE BASE
NTS

REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY:	NA
DESIGNED BY:	BCB
DRAWN BY:	BCB
CHECKED BY:	BCB
APPROVED BY:	JMP

THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION
120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603
PHONE 706.613.3440
FAX 706.613.3444

PROJECT: CONSTRUCTION STANDARDS AND DETAILS

DATE: FEBRUARY 2009

SHEET: CURB & GUTTER DETAIL

SHEET: I-030

7/22/2009 10:46:42 AM

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

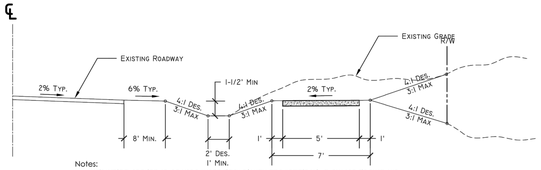
SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

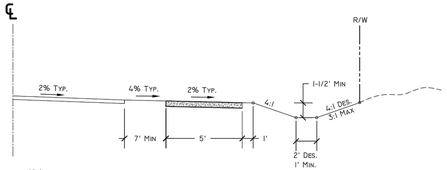
Sheet: 80-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		40	48



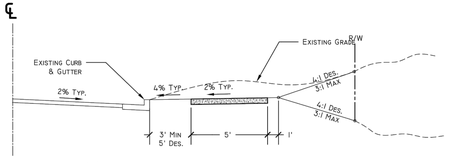
Notes:
1. This typical section to be used when right of way and terrain will allow the sidewalk to be constructed between the ditch and right of way.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #1
NTS



Notes:
1. This detail to be used on ditch sections where the construction of sidewalks behind the ditch is not practical or feasible.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #2
NTS



Notes:
1. This detail to be used on streets with existing or proposed curb and gutter.
2. The centerline profile of the sidewalk should conform to the centerline profile of the roadway whenever possible.
3. Longitudinal slope should not exceed 1:12 or 8.33% except where centerline profile of roadway exceeds 8.33%
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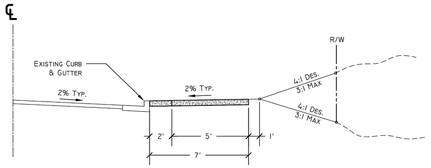
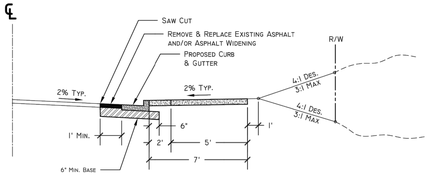
TYPICAL SIDEWALK CROSS-SECTION
TYPE #3
NTS



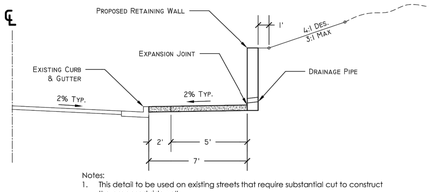
Notes:
1. This detail to be used on streets with existing curb and gutter.
2. See "7' Sidewalk Joint Pattern and Finish Detail".
3. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #4
NTS



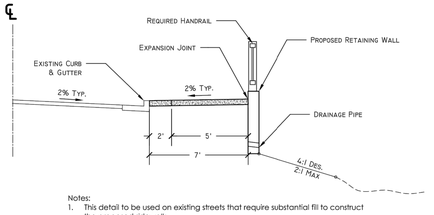
Notes:
1. This detail to be used on streets with proposed curb & gutter or limited right of way. (e.g. - deceleration lane, bike lanes, etc)
2. See "7' Sidewalk Joint Pattern and Finish Detail".
3. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #5
NTS



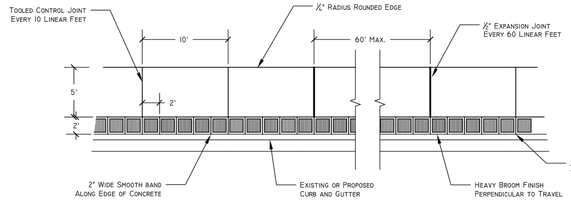
Notes:
1. This detail to be used on existing streets that require substantial cut to construct the proposed sidewalk.
2. Handrails may be required along the top of the proposed wall.
3. See GDOT Standard 9031L.
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #6
NTS



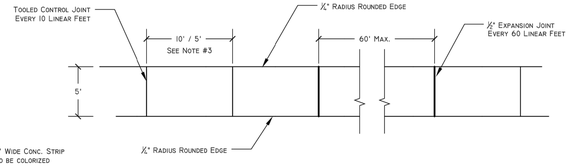
Notes:
1. This detail to be used on existing streets that require substantial fill to construct the proposed sidewalk.
2. Handrails may be required along the top of the proposed wall.
3. See GDOT Standard 9031L.
4. All fill areas should be compacted to 95% standard proctor.

TYPICAL SIDEWALK CROSS-SECTION
TYPE #7
NTS



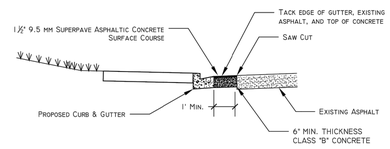
Notes:
1. 1/2" Expansion Joints to be placed every 60' L.F., where sidewalks abut structures, at driveways, driveway aprons and curb cut ramps.
2. This detail substitutes "Concrete Sidewalk Detail" from GDOT Detail Sheet A3.
3. Proposed Curb & Gutter and Concrete Sidewalk must be formed and poured seperate.
4. Concrete to be placed 4" (except where otherwise specified) thick with tamps, wood floats and stiff bristle brooms to achieve a type S sidewalk finish acceptable to Athens-Clarke County Department of Transportation and Public Works.
5. Sidewalk Joints shall be tooled to match curb joints whenever possible.
6. Maximum cross-slope not to exceed 2.00%.
7. 2' wide concrete strip to be colorized concrete per Department direction.

7' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



Notes:
1. 1/2" Expansion Joints to be placed every 60' L.F., where sidewalks abut structures, at driveways, driveway aprons and curb cut ramps.
2. This detail substitutes "Concrete Sidewalk Detail" from GDOT Detail Sheet A3.
3. Contraction joints shall be placed every 5' in an Urban Section (Curb and Gutter Section) and every 10' in a Rural Section (Shoulder and Ditch Section).
4. Concrete to be placed 4" (except where otherwise specified) thick with tamps, wood floats and stiff bristle brooms to achieve a type S sidewalk finish acceptable to Athens-Clarke County Department of Transportation and Public Works.
5. Maximum running slope not to exceed 8.33%.
6. Maximum cross-slope not to exceed 2.00%.

5' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



Notes:
1. Class "B" concrete base or pavement widening Item code 500-9999 - cu yds
2. In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "class B concrete base and pavement widening.
3. In excavated areas greater that 5'-0" in width, the contractor shall place base and paving as specified on the typical section.
4. See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE
OR WIDENING DETAIL
NTS

REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY:	NA
DESIGNED BY:	BCB
DRAWN BY:	BCB
CHECKED BY:	BCB
APPROVED BY:	JMP

THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION
120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603
PHONE 706.613.3440
FAX 706.613.3444

PROJECT:
CONSTRUCTION STANDARDS AND DETAILS
DATE: FEBRUARY 2009

SHEET: TYPICAL SIDEWALK CROSS-SECTIONS (EXISTING STREETS)
SHEET: I-060

7/22/2009 10:44:45 AM

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

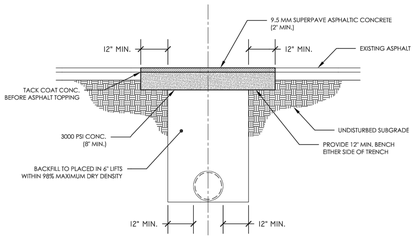
SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

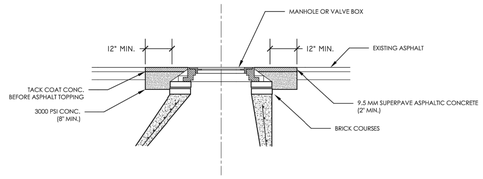
Sheet: 80-002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		65	66



Notes:
1. Fill material to be placed in 6" lifts to 98% Standard Proctor Density.
2. Asphalt topping must be in place with in 7 calender daysof concrete pour.
3. All Longitudinal Cuts exceeding 150 L.F. will require the resurfacing of the entire road width for the length of the cut.
4. Succesive Lateral Cuts having a separation distance less than 50 L.F., as measured along the lane centerline, will require the resurfacing of the entire road width throughout the length of the successive lateral cuts.
5. All saw cuts to be straight, with smooth, even edge.

PAVEMENT REPLACEMENT DETAIL
NTS

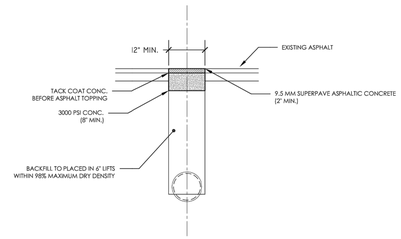


Notes:
1. Fill material to be placed in 6" lifts to 98% Standard Proctor Density.
2. All Street Cuts must be covered with a steel plate of suffecient thickness to span the cut without noticeable deflection. Steel plates must remain in placeuntil concrete has sufficient strength to withstand traffic loads, a mimimum of 24 hours.
3. Asphalt topping must be in place with in 7 calender days of concrete pour.
4. Ring and Cover must be adjusted flush with asphalt.
5. All saw cuts to be straight, with smooth, even edge.

STRUCTURE ADJUSTMENT DETAIL
NTS

Procedural Notes:
1. Sawcut existing pavement for the necessary trench width only, and perform trench excavation.
2. Complete the utility installation.
3. Backfill trench by placing and compacting in 6-inch lifts to at least 95% theoretical maximum dry density.
4. Sawcut, in a neat straight line, an additional one-foot pavement width on each side of the trench to provide an undisturbed shoulder for the concrete trench cap. Excavate trench and shoulder to proper depth for installation of concrete trench cap and asphalt inlay, per detail.
5. Place 8-inch thick, 3000 PSI, high early strenght portland cement concrete trench cap, screed and level concrete to a consistent depth of 1 1/2 inches for subsequent installation of asphalt inlay. Do not apply a smooth trowel finish.
6. Plate or otherwise protect, and restrict traffic for 7 days cure time.*
7. Apply asphalt tack coat to edges of existing pavement and top of concrete trench cap.
8. Place asphalt Type "F" (Superpave 9.5 mm) 1 1/2 inches thick and compact.

* Note: GDOT twenty-four hour accelerated strength concrete (GDOT Standard Specifications Construction of Transportation Systems, 2001 Edition, Section 504) may be substituted for 3000PSI concrete. A six (6) hour cure time will be applicable under this condition.



Notes:
1. Fill material to be placed in 6" lifts to 98% Standard Proctor Density.
2. All Street Cuts must be covered with a steel plate of suffecient thickness to span the cut without noticeable deflection. Steel plates must remain in placeuntil concrete has sufficient strength to withstand traffic loads, a mimimum of 24 hours.
3. Asphalt topping must be in place with in 7 calender days of concrete pour.
4. All saw cuts to be straight, with smooth, even edge.

STRUCTURE ADJUSTMENT DETAIL
NTS

REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
2			
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SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JMP

THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION
120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603
PHONE 706.613.3440
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PROJECT:
CONSTRUCTION STANDARDS AND DETAILS
DATE: FEBRUARY 2009

SHEET:
UTILITY CUT AND ADJUSTMENT DETAIL
SHEET: I-070

7/22/2009 10:44:07 AM

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REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

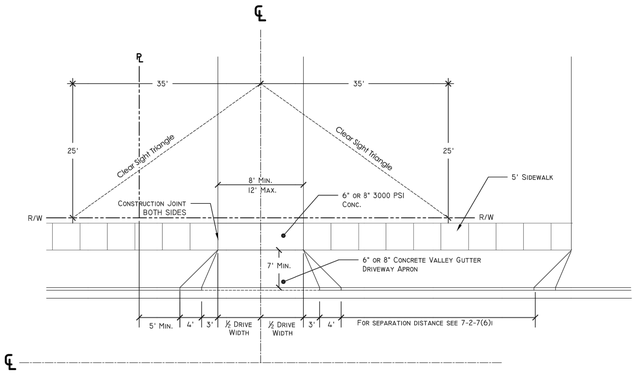
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

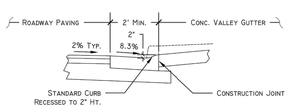
Sheet:
80-003

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			

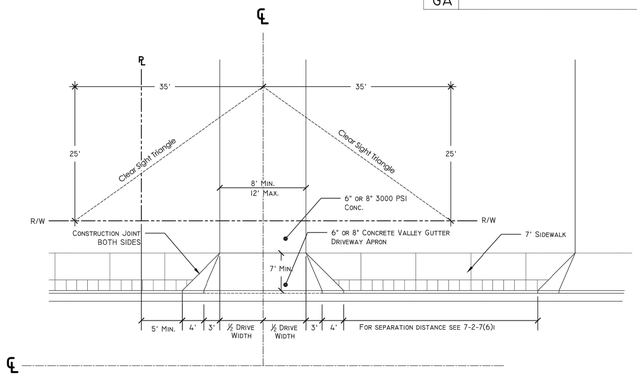


Plan View

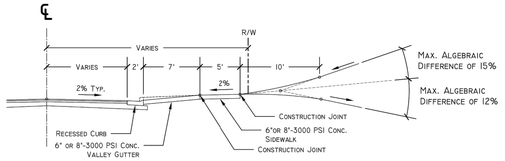
Notes:
1. Sidewalk must be the same thickness of the driveway (6" or 8") through the first full segment of sidewalk.
2. See Typical Intersection Detail 1-040 and 7-2-7(6)ii of Athens-Clarke County Code of Ordinances for driveway separation from intersections.
3. See 7-2-7(6)i of the Athens-Clarke County Code of Ordinance for separation between driveways.



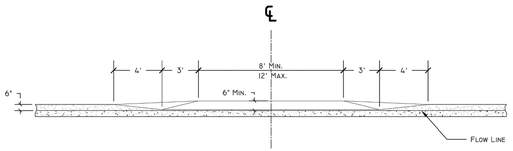
Recessed Curb



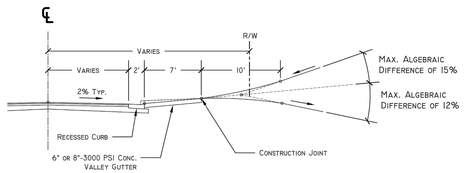
Plan View



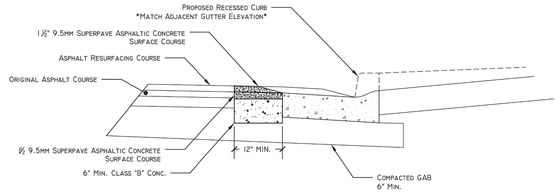
Profile View

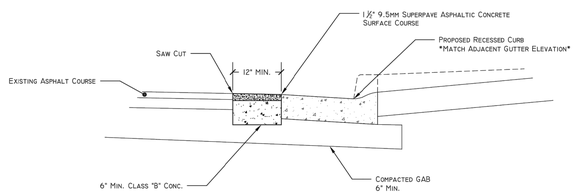


Section View
at Flow Line



Profile View





Notes:
1. For installation of curb and gutter along existing streets where excavated area with a width less than 5'.
2. Use typical section detail for excavated areas wider than 5'.
3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6".

Class "B" Concrete Base
NTS

REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
2			
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SURVEYED BY:	NA
DESIGNED BY:	BCB
DRAWN BY:	BCB
CHECKED BY:	BCB
APPROVED BY:	JMP

THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION
120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603
PHONE 706.613.3440
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PROJECT:
CONSTRUCTION STANDARDS AND DETAILS
DATE: JUNE 2009

SHEET:
URBAN RESIDENTIAL
DRIVEWAY APRON DETAIL
SHEET: 2-010

7/22/2009 10:43:13 AM

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REV. NO.	DATE	REVISION DESCRIPTION

BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE:
CONSTRUCTION DETAILS

PROJECT NAME:
TIMOTHY ROAD
SHARED USE PATH
SECTION II

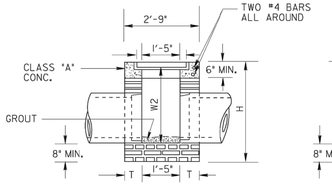
PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
80-004

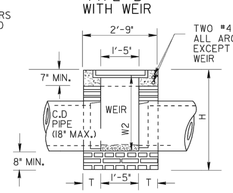
6/7/2006 11:00:07 AM \\GDOT-DSAI\GOPLOT\GCF\go_tiff_output.gcf gowens M:\GARY\1019A FIX\1019A.prf GO-RD6

TYPE "A"



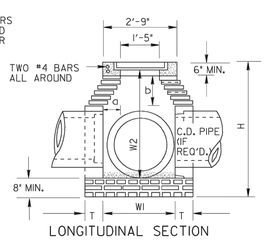
LONGITUDINAL SECTION

TYPE "B" WITH WEIR



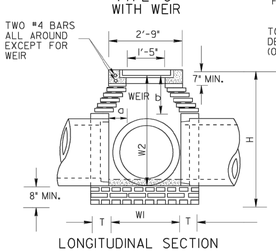
LONGITUDINAL SECTION

TYPE "C"



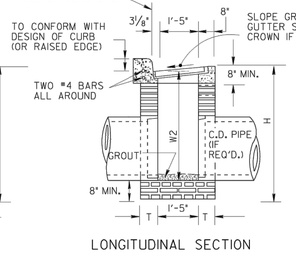
LONGITUDINAL SECTION

TYPE "C" WITH WEIR



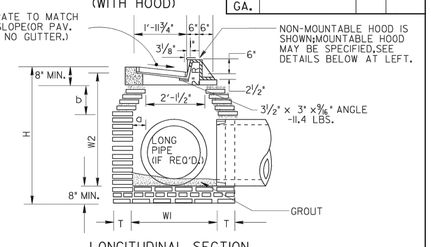
LONGITUDINAL SECTION

TYPE "D"



LONGITUDINAL SECTION

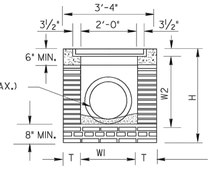
TYPE "E" (WITH HOOD)



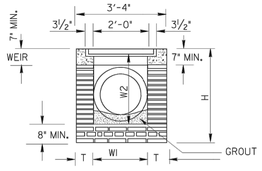
LONGITUDINAL SECTION

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CROSS SECTION



CROSS SECTION



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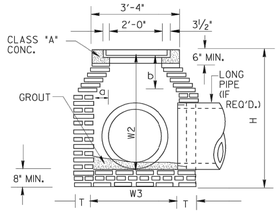

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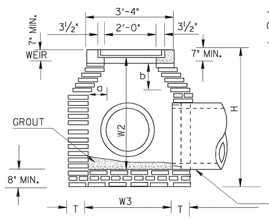

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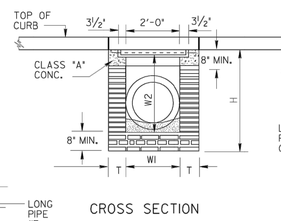

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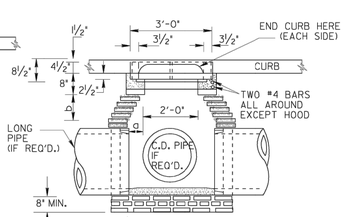

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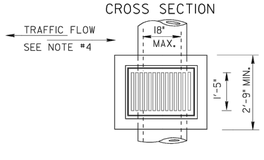
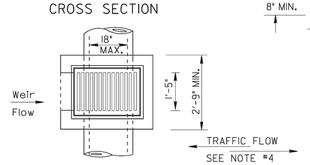


PLAN



PLAN OF CONCRETE COPING SHOWING WEIR

PLAN

PLAN

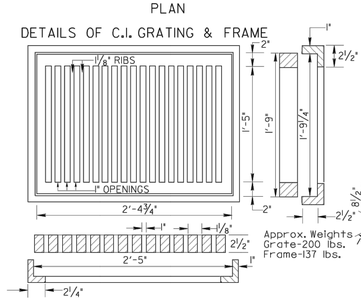
TRAFFIC FLOW
SEE NOTE #4

PLAN

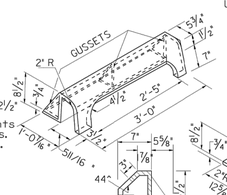
NOTE:
FOR LARGER PIPE SIZES, TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

PLAN

DETAILS OF C.I. GRATING & FRAME

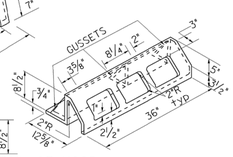


DETAIL OF • HOOD (NON-MOUNTABLE USE WITH TP2 CURB)

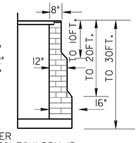


Approx. Weights
Grate-200 lbs.
Frame-137 lbs.

DETAIL OF • HOOD (MOUNTABLE)
(use with Tp 7 Curb)

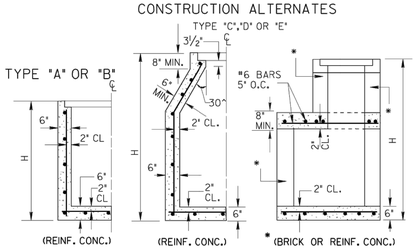


BRICK WALL THICKNESSES
(FOR ALL TYPE INLETS)



NOTE:
DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES



NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BUT WHERE H IS OVER 9 FT., AND PIPE IS OVER 30" I.D., THE HORIZONTAL STEEL, WHICH IS MORE THAN 9 FT. DEEP WILL BE INCREASED TO 6" SPACINGS. 6" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST AND/OR STD. 1040 PRECAST AND BUILT-IN-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES, THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "a" WHICH IS MAXIMUM.

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

• CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES"A" or "B" BRICK OR REINF. CONC.			TYPE "C" OR"D" (BRICK)						TYPE "E" (BRICK)						TYPE"C","D" OR"E" (REINFORCED CONCRETE)						
	WI	W2	H(min.)	WI	W2	W3	a (MAX.)	b	H(min.)	WI	W2	W3	a (MAX.)	b	H(min.)	WI type"C"	WI type"E"	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3½"	2'-2⅛"	2'-11"	2'-9⅛"	0'-4⅝"	0'-7⅛"	3'-9½"	3'-2⅛"	3'- 1"	3'-0⅝"	0'-7⅜"	1'-11⅛"	3'-11½"	2'- 0"	2'- 1"	2'- 7"	2'- 0"	3½"	6"	3'- 6"
18"	2'- 0"	2'-10"	3'- 7"	2'-2⅛"	3'-2½"	2'-9⅛"	0'-4⅝"	0'-7⅛"	4'-1"	3'-2⅛"	3'-4½"	3'-0⅝"	0'-7⅜"	1'-11⅛"	4'- 1"	2'- 0"	2'- 1"	3'- 0"	2'- 0"	3½"	6"	3'-11"
24"	~	~	~	2'-8⅛"	3'-3⅛"	3'-3⅛"	0'-7⅜"	1'-1⅛"	4'- 9"	3'-2⅛"	3'-11½"	3'-0⅝"	0'-7⅜"	1'-11⅛"	4'-8¼"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6½"	11¼"	4'- 7"
30"	~	~	~	3'-1¼"	4'-0¼"	3'-10⅛"	1'-0⅛"	1'- 5"	5'-10"	3'-5½"	4'-6⅜"	3'- 4"	0'- 8"	1'-1⅜"	5'-6⅞"	3'- 4"	3'- 6"	4'- 9"	3'- 0"	9½"	16½"	5'-10"
36"	~	~	~	4'-1⅞"	6'-0⅜"	4'-8⅞"	1'-4⅞"	2'-2¼"	6'-11⅝"	3'-11½"	5'-8⅝"	3'-10"	0'-11"	1'-1⅞"	6'-7⅛"	3'-10"	4'- 0"	5'-10"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	~	~	~	4'-5 "	7'-1¾"	5'- 0"	1'- 6"	2'-7⅜"	8'-0¼"	4'-6½"	7'-5⅞"	4'- 5"	1'-2½"	2'-1⅜"	8'-4⅜"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-5½"	7'-11"
48"	~	~	~	5'- 0"	8'-2¾"	5'- 7"	1'-9½"	3'-1¼"	9'-1¼"	5'-1½"	8'-6⅞"	5'- 0"	1'- 6"	2'-7⅜"	9'-5⅜"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9½"	3'-1½"	9'- 2"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-7½"	10'-2½"	5'-8½"	9'-7¾"	5'- 7"	1'-9½"	2'-7⅜"	10'-6¼"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0½"	3'-6½"	10'- 0"
60"	~	~	~	6'- 2"	10'-4⅞"	6'- 9"	2'-4½"	4'-1⅝"	11'-3⅛"	6'-3½"	10'-8⅞"	6'- 2"	2'- 1"	3'-1⅞"	11'-7⅞"	6'- 0"	6'- 0"	10'- 3"	6'- 0"	2'-3½"	4'- 0"	11'- 1"

GENERAL NOTES:

1. SPECIFICATIONS:GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. ½" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN REV. & REDR. AUG., 1999

BY	DES.	REV.	TRA.	CHK.

(SUBMITTED) James R. Kennedy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) David L. Hobbs
CHIEF ENGINEER

NUMBER 1019A

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Augusta, GA 30901
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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
80-005

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1/15/02 2:43:35 PM \\GDOT-DSN1\GOPLOT\OCT\gord_oc0960O_my1or.oct borbyd M:\standard\Engl1sh\1030d1.plt

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

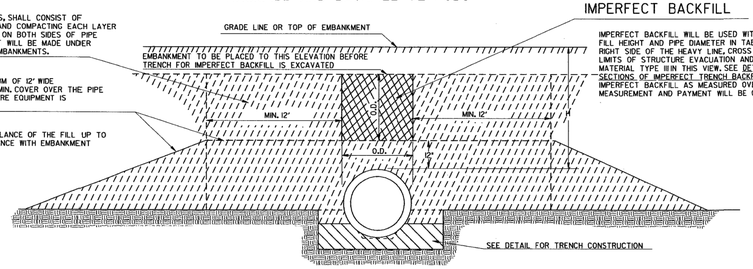
NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

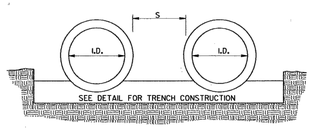
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO.1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE. CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

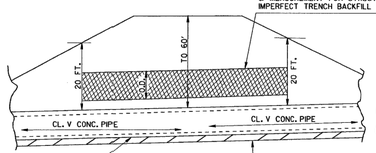


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

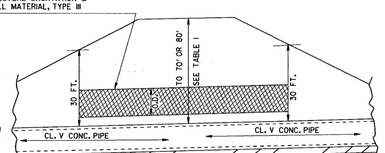
NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III

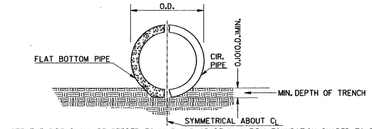


DETAIL "A"
(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)



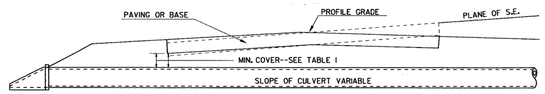
DETAIL "B"
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN

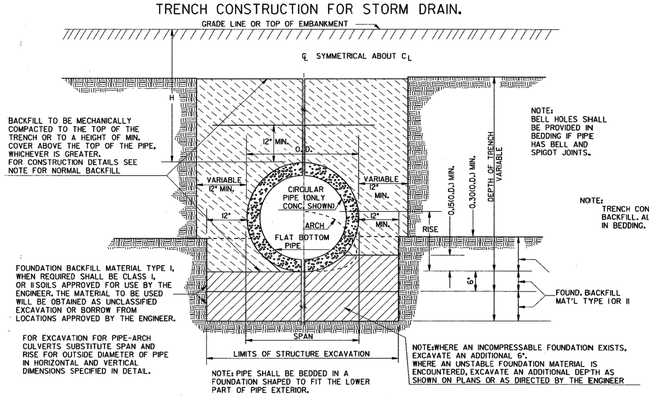


NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSABLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



TRENCH CONSTRUCTION FOR STORM DRAIN.



NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: WHERE AN INCOMPRESSABLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6", WHERE AN UNSTABLE FOUNDATION MATERIAL IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

NOTE:
BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE:
TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE — REV. & REDR.: SEPT., 2001

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

NUMBER 1030D

REVISION: DATE | DESCRIPTION | BY

REV. NO. | DATE | REVISION | BLOCK

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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 80-006

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TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE												PIPE DIAMETER (INCHES)
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		15
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		18
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		24
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		30
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135			
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		36
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.105	.105	.105	.105	.105	.135	.135	.135	.135			
	ALUM 2	12	.060	.060	.060	.060	.075	.075	.105	.105	.105	.135			
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		42
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	
	ALUM 1	12	.105	.105	.135	.135	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.105	.135	.135			
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		48
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	ALUM 1	12	.105	.105	.135	.164	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.135	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		54
	STEEL 1	12	.079	.079	.079	.079	.079	.079	.079	.109	.138	.138	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	ALUM 1	15	.105	.105	.135	.164	.164	.164							
	ALUM 2	15	.060	.060	.060	.075	.075	.105	.135	.135	.164	.164			
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		60
	STEEL 1	12	.109	.109	.109	.109	.109	.109	.109	.109	.138	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.079	.109	.138	.138	.168	.168	
	ALUM 1	15	.135	.135	.164	.164	.164	.164							
	ALUM 2	15	.060	.060	.075	.105	.105	.135	.135	.164	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			66
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168		
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			72
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168				
	STEEL 2	12	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168			
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.164	.164	.164					
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V				78
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168			
	ALUM 2	21	.075	.075	.105	.105	.135	.164	.164						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V				84
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.079	.079	.109	.109	.138	.168				
	ALUM 2	21	.105	.105	.105	.135	.135	.164	.164						
90	CONCRETE	12	III	III											90
	STEEL 2	18	.064	.064	.064	.079	.109	.109	.138	.138	.168				
	ALUM 2	24	.105	.105	.135	.135	.164								
96	CONCRETE	12	III	III											96
	STEEL 2	18	.079	.079	.079	.079	.109	.109	.138	.168					
	ALUM 2	24	.105	.105	.135	.135	.164								
102	CONCRETE	12	III	III											102
	STEEL 2	24	.079	.079	.079	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164	.164										
108	CONCRETE	12	III	III											108
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164											
114	CONCRETE														114
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.168						
	ALUM 2	24	.164	.164											
120	CONCRETE														120
	STEEL 2	24	.109	.109	.109	.109	.138	.138	.168						
	ALUM 2	24	.164	.164											

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

TABLE NO.3-(INFORMATION ONLY)		
	COR. METAL THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

BY	REVISION	DATE
	GEN. REV. NOTES	9-26-01
G.JP	ADDED SEAM CONST. NOTE	3-9-99

DES. DRN. TRK. CHK.

NO SCALE

SUBMITTED: STATE DESIGN ENGR.

APPROVED: STATE BRIDGE DESIGN ENGR.

CHIEF ENGINEER

NUMBER 1030D

OCTOBER 24, 1998

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 2 OF 3
(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STATE | GA. | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS

PROJECT INFORMATION

JOB NO. 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-007

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS-CLARKE COUNTY, GA

REV. NO.	DATE	DESCRIPTION

REVISION BLOCK

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

TABLE NO. 1 R ROUND PIPE - SPIRAL RIB STEEL - SPIRAL RIB ALUMINUM
MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL (FEET) ABOVE TOP OF PIPE												PIPE DIAMETER (INCHES)
			1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90	
12															12
15															15
18	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079		18
	ALUM R	12	.060	.060	.060	.060	.060	.060	.075	.075					
24	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109		24
	ALUM R	12	.060	.060	.060	.060	.075	.075	.105	.105	.105				
30	STEEL R	12	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109		30
	ALUM R	15	.060	.060	.060	.075	.075	.105	.105	.105					
36	STEEL R	12	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109			36
	ALUM R	18	.060	.060	.075	.075	.105	.105	.105	.135	.135				
42	STEEL R	12	.064	.064	.064	.064	.079	.079	.109	.109	.109				42
	ALUM R	21	.075	.075	.075	.105	.105	.105	.135	.135					
48	STEEL R	12	.064	.064	.064	.079	.079	.109	.109	.109					48
	ALUM R	24	.105	.105	.105	.105	.105	.135	.135						
54	STEEL R	15	.064	.064	.064	.079	.079	.109	.109						54
	ALUM R	24	.105	.105	.105	.105	.135	.135	.135						
60	STEEL R	15	.079	.079	.079	.079	.109	.109	.109						60
	ALUM R	24	.105	.105	.105	.105	.135	.135							
66	STEEL R	18	.079	.079	.079	.109	.109	.109	.109						66
	ALUM R	24	.135	.135	.135	.135	.135								
72	STEEL R	18	.109	.109	.109	.109	.109	.109							72
	ALUM R	27	.135	.135	.135	.135	.135								
78	STEEL R	21	.109	.109	.109	.109	.109								78
84	STEEL R	21	.109	.109	.109	.109	.109								84
90															90
96															96
102															102
108															108
114															114
120															120

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 7-1/2"

TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, f_y=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (f_y=20,000 PSI), ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 IN. BECOMES 13.8 IN.)

B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FT. BECOMES 29.7-34.0 FT.)

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR ALL INSTALLATIONS.

BY	REVISION	DATE

NO SCALE

DESIGNED ____
TRACED ____
CHECKED ____
REVISED ____

(SUBMITTED) STATE ROAD & TOLLWAY DESIGN ENGINEER

(APPROVED) DIRECTOR OF DESIGN

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)

SEPT., 2001

NUMBER 1030D

TABLE NO. 2 (PIPE-ARCH)

TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM PIPE-ARCH AND MAXIMUM HEIGHTS OF FILL IN FEET ABOVE THE TOP OF THE PIPE-ARCH.

DIAMETER OF PIPE OF EQUAL PERIPHERY INCH	NOM.-MIN. SPAN INCH	NOM.-MIN. RISE INCH	MIN. THICKNESS (INCHES) COR. STEEL ①	COR. STEEL ②	COR. ALUMINUM	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)
15	17	13	.064		.060	18	13
						18	15
18	21	15	.064		.060	18	12
						18	14
21	24	18	.064		.060	18	10
						18	13
24	28	20	.064		.075	18	9
						18	11
30	35	24	.064		.075	18	9
						18	11
36	42	29	.064		.105	18	7
	40	31		.079		18	12
42	49	33	.079		.105	18	7
	46	36	.079	.079		18	12
48	57	38	.109		.135	18	7
	53	41		.079		18	12
54	64	43	.109		.135	18	7
	60	46		.079		18	12
60	71	47	.138		.164	18	7
	66	51		.079		18	12
66	77	52	.168			18	7
	73	55		.079		18	15
72	83	57	.168			18	8
	81	59		.079		18	15
78	87	63		.079		18	14
84	95	67		.109		18	12
90	103	71		.109		24	11

NOTE FOR TABLE NO. 2.
ALTERNATE SPAN-RISE COMBINATIONS FOR PIPE-ARCHES, HAVING EQUAL PERIPHERY TO THAT SHOWN, MAY BE SUBSTITUED IF LISTED IN AASHTO SPECIFICATION.

STATE	PROJECT NUMBER	SHEET NO.	SHEET TOTAL SHEETS
GA.			

Sheet: 80-008

ORIGINAL RELEASE DATE: AUGUST 16, 2023
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
CHECKED BY: VC
DRAWN BY: KC
JOB NO. 19023002

PROJECT INFORMATION

SHEET TITLE:
CONSTRUCTION DETAILS

PROJECT NAME
TIMOTHY ROAD
SHARED USE PATH
SECTION II

ATHENS-CLARKE COUNTY, GA

REV. NO.	DATE	DESCRIPTION

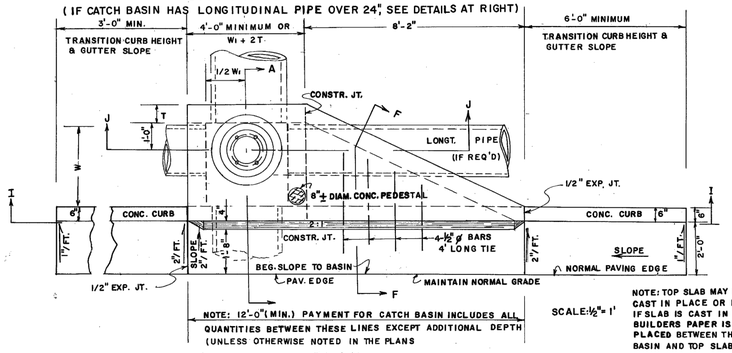
REVISION BLOCK

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

AF 21868

CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24" SEE DETAILS AT RIGHT)

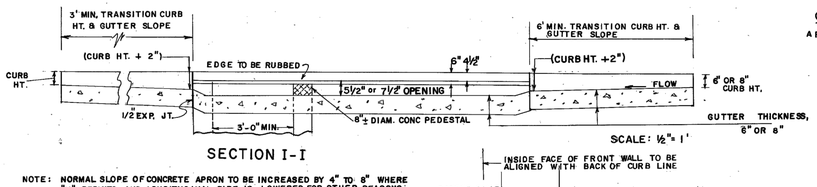


NOTE: 12'-0"(MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED IN THE PLANS

SCALE: ½" = 1'

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST, IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

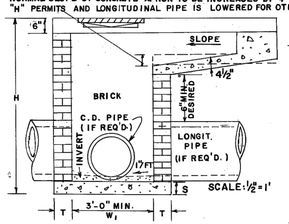
PLAN



SCALE: ½" = 1'

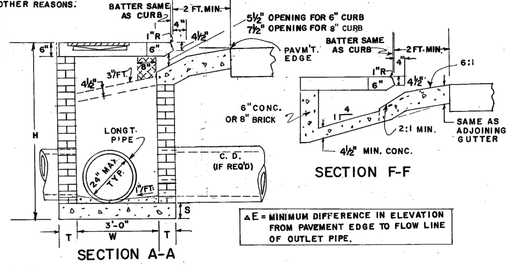
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SCALE: ½" = 1'

SECTION J-J

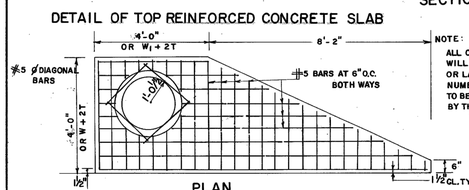


SECTION A-A

SECTION F-F

ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

DETAIL OF TOP REINFORCED CONCRETE SLAB



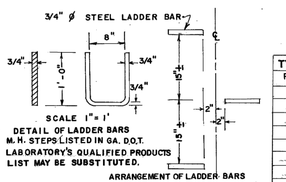
PLAN

NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.

ELEVATION



SCALE 1" = 1'

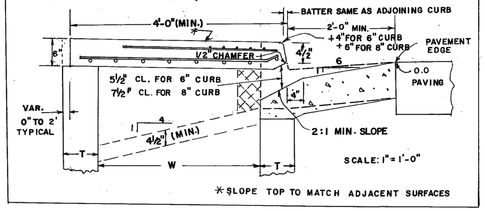
DETAIL OF LADDER BARS

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ARRANGEMENT OF LADDER BARS

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W/ #4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

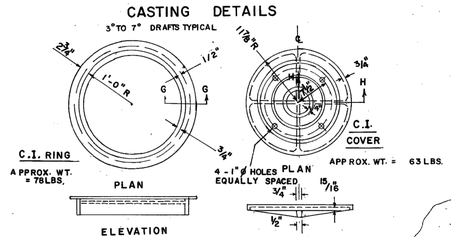


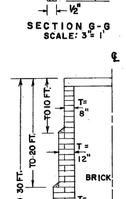
SCALE: 1" = 1'-0"

* SLOPE TOP TO MATCH ADJACENT SURFACES

CASTING DETAILS

3" TO 7" DRAFTS TYPICAL





ALTERNATE TO INVERT

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRE-CAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.

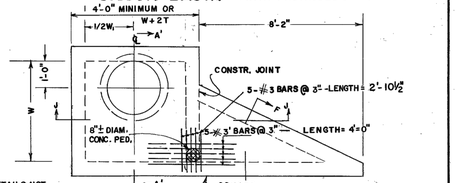
DEPTH LIMITS FOR INCREASING T

PIPE DIA.	H (MIN.)	W or W1	ΔE (MIN)
12	4'- 4"	3'-0"	3'-3"
15	4'- 7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'- 6"	3'-0"	4'-4"
30	6'- 2"	3'-7"	5'-0"
36	6'- 10"	4'-6"	5'-7"
42	7'- 4"	5'-3"	5'-11"
48	8'- 0"	6'-0"	6'-6"
54	8'- 6"	6'-8"	7'-0"
60	9'- 2"	7'-4"	7'-7"

NOTE: THE MIN. R & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W. & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

CATCH BASIN - (WITH PROTRUDED BACK)

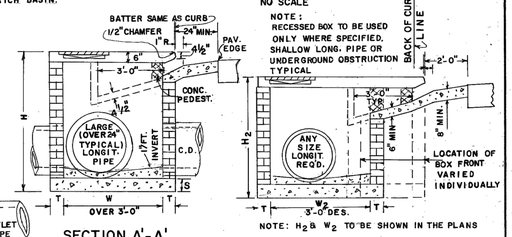


PART PLAN

NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

NO SCALE

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED, SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL

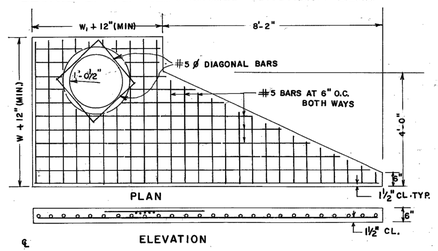


NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

SECTION A-A' (WITH RECESSED BOX)

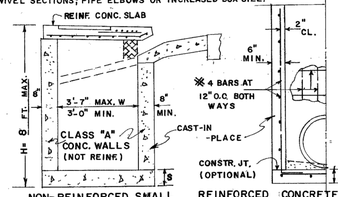
DETAIL OF TOP REINFORCED CONCRETE SLAB



NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

PRECAST BOX ON BRICK (HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.



NON-REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONCRETE (HALF-SECTION)

CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CATCH BASINS
FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN — RED. & REDR. AUGUST, 1982

REV. & REDR. RMJ	(SUBMITTED)	STATE ROAD & AIRPORT DESIGN ENGR.
TRA. GME	(APPROVED)	STATE HIGHWAY ENGINEER
CHK. RKC		

NUMBER 1033D

FORM EF3

benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

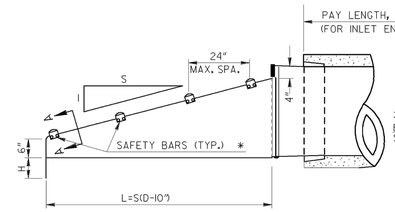
JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

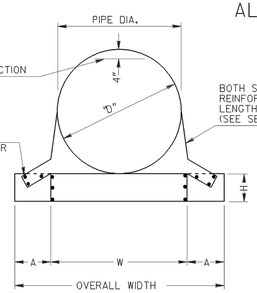
Sheet: 80-009

7/24/2009 12:09:34 PM \\GDOT-DSK1\GOPLOT\QCF\go_tiff_output.qcf gowens Y:\Standards\English Standards (.PRF)\1122-1.prf 00-RD6

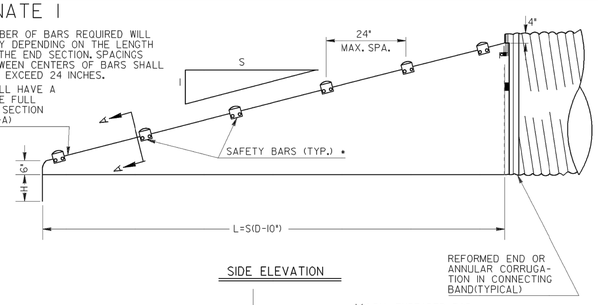
ALTERNATE I

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





* NUMBER OF BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION. SPACINGS BETWEEN CENTERS OF BARS SHALL NOT EXCEED 24 INCHES.



GENERAL NOTES
ALTERNATE I

GALVANIZED STEEL SHEET

USE GALVANIZED STEEL SHEET CONFORMING TO AASHTO M 218.

CONNECTORS

PAYMENT FOR END SECTION SHALL INCLUDE CONNECTION OF THE TYPE REQUIRED FOR THE SIDE DRAIN USED.

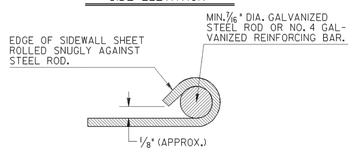
SAFETY BARS

SHALL BE 3" SCHEDULE 40 GALVANIZED STEEL PIPE. PIPE TO BE GALVANIZED AFTER FORMING. SAFETY BAR(S) SHALL BE REQUIRED FOR ALL SAFETY END SECTIONS.

MISCELLANEOUS DETAILS

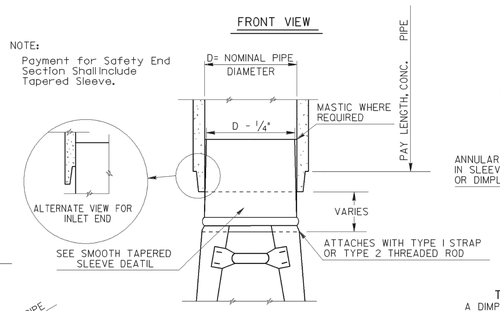
DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS, SUBJECT TO APPROVAL BY THE D.O.T.'S LABORATORY. A SAMPLE MUST BE SUBMITTED TO PRE-QUALIFY THE PRODUCT.

SIDE ELEVATION

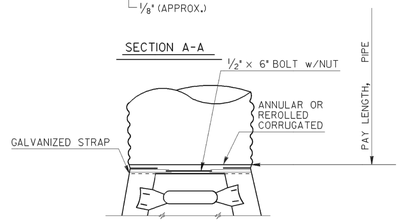


FRONT VIEW

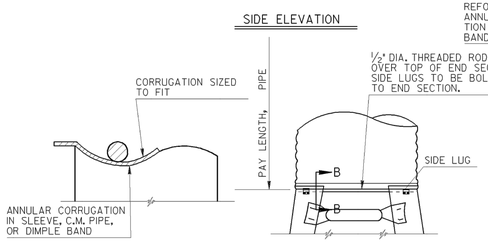
NOTE:
Payment for Safety End Section Shall Include Tapered Sleeve.



SECTION A-A



SIDE ELEVATION



SECTION B-B

TYPE #2 CONNECTOR DETAILS
FOR 30" AND LARGER

TYPE 3 ALTERNATE CONNECTOR (NOT SHOWN)
A DIMPLE BAND COLLAR MAY BE SHOP BOLTED TO THE END SECTION

SIZES, DIMENSIONS, AND THICKNESSES

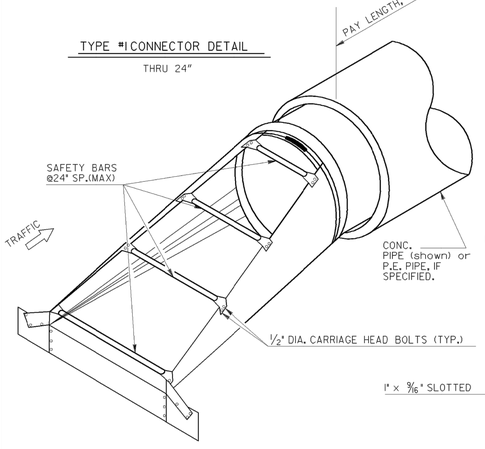
PIPE DIA. (IN.)	MIN. THICK. IN.	GAGE	DIMENSIONS (INCHES) A	H	W (D+6")	OVERALL WIDTH	* L DIMENSION SLOPE (S:1)	LENGTH (IN.)	SLOPE (S:1)	LENGTH (IN.)
15	.064	16	8	6	21	37	4:1	20	6:1	30
18	.064	16	8	6	24	40	4:1	32	6:1	48
24	.064	16	8	6	30	43	4:1	56	6:1	84
30	.109	12	12	9	36	60	4:1	80	6:1	120
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228

*SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

SPECIAL NOTE:

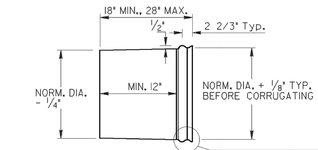
WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF END SECTIONS ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.

TYPE #1 CONNECTOR DETAIL
THRU 24"



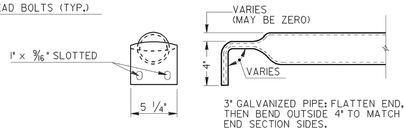
TYPICAL PICTORAL VIEW
(WITH CONCRETE PIPE)

TAPERED SLEEVE FOR ATTACHING STEEL END SECTIONS TO SMOOTH PIPE



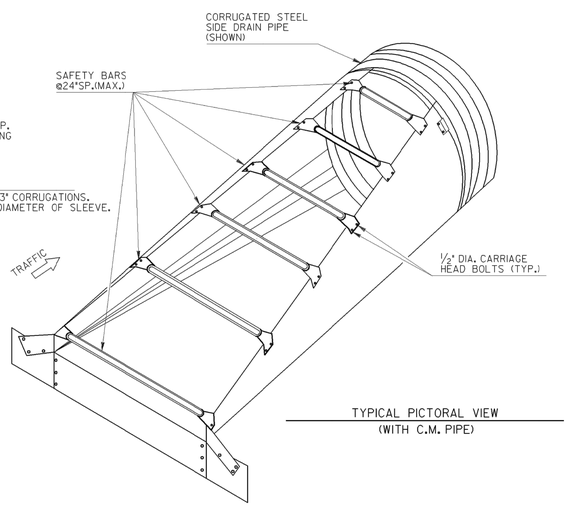
NOTE: METAL TO BE 12 GAGE, SMOOTH GALVANIZED IN ACCORDANCE WITH AASHTO M218 AND COATED AS REQUIRED FOR END SECTION.

TYPE 4 CONNECTOR
SMOOTH TAPERED SLEEVE DETAIL



3" GALVANIZED PIPE: FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

TYPICAL DETAIL OF SAFETY BARS



TYPICAL PICTORAL VIEW
(WITH C.M. PIPE)

REV. NO.	DESCRIPTION / REVISION	DATE
G.L.O.	REVISED GENERAL NOTES	1-28-05
R.M.U.	CONVERTED TO STANDARD	12-14-94
R.M.U.	PAY ITEM REVISION	11-18-94
R.M.U.	ON METRIC STD. 903-T	12-20-93
BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(METAL)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE I

NO SCALE — SEPT., 1993

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 1122
SHEET 1 OF 3

benesch
Alfred Benesch & Company
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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO:	19023002
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023002E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet: 80-010

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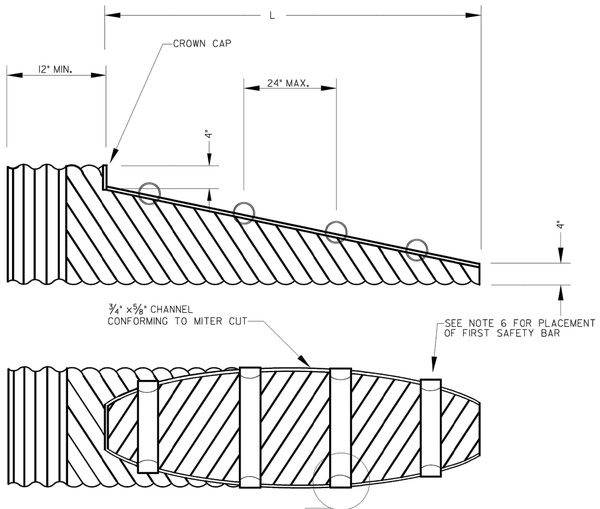
ALTERNATE 2



NOTE: ENDS OF BARS SHALL BE WELDED SOLID TO PREVENT SOIL AND WATER INFLITRATION

END TREATMENT DIMENSIONS FOR ARCHED METAL PIPE				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4d SLOPE L DIMENSION	*6d SLOPE L DIMENSION
17"x13"	16	.064"	1'-8"	2'-6"
21"x15"	16	.064"	2'-4"	3'-6"
24"x18"	16	.064"	3'-4"	5'-0"
28"x20"	16	.064"	4'-0"	6'-0"
35"x24"	14	.079"	5'-4"	8'-0"
42"x29"	14	.079"	7'-0"	10'-6"
49"x33"	14	.079"	8'-4"	12'-6"
57"x38"	12	.109"	10'-0"	15'-0"
64"x43"	12	.109"	11'-8"	17'-6"
71"x47"	10	.138"	13'-0"	19'-6"

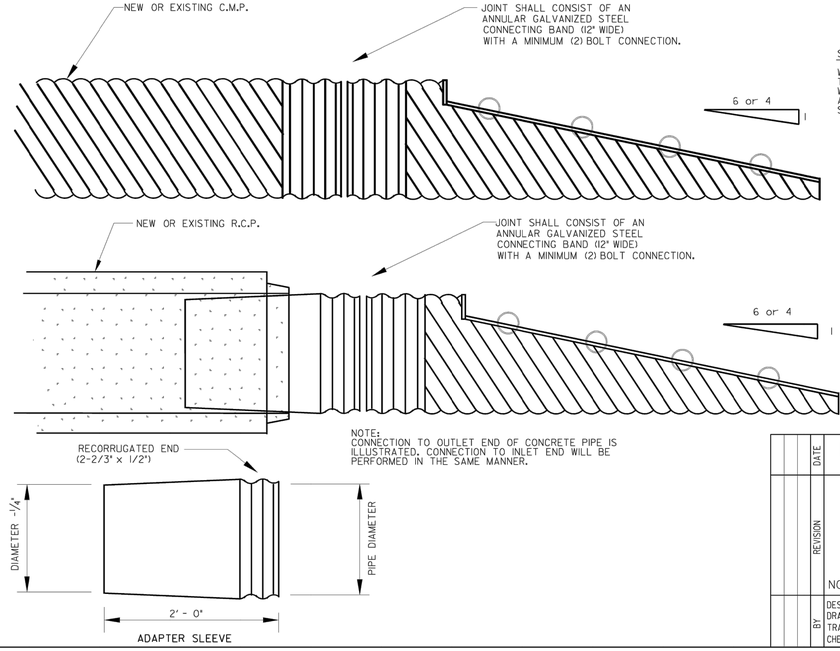
* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

END TREATMENT DIMENSIONS FOR CIRCULAR METAL AND CIRCULAR CONCRETE PIPES				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4d SLOPE L DIMENSION	*6d SLOPE L DIMENSION
15"	16	.064"	2'-4"	3'-6"
18"	16	.064"	3'-4"	5'-0"
21"	16	.064"	4'-4"	6'-6"
24"	16	.064"	5'-4"	8'-0"
30"	16	.064"	7'-4"	11-0"
36"	16	.064"	9'-4"	14'-0"
42"	14	.079"	11'-4"	17'-0"
48"	14	.079"	13'-4"	20'-0"
54"	14	.079"	15'-4"	23'-0"
60"	12	.109"	17'-4"	26'-0"

* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

GENERAL NOTE ALTERNATE 2:

1. THE MATERIAL USED IN FABRICATION OF SLOPED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 218 (GALVANIZED STEEL)
2. SLOPED END SECTIONS SHALL BE FORMED FROM FULL CIRCLE PIPE, MAY BE FORMED INTO PIPE ARCHES, WHERE SPECIFIED, AND SHALL MEET ALL REQUIREMENTS FOR CORRUGATION, GAGE, AND OTHER FABRICATION REQUIREMENTS.
3. THE EXPOSED EDGE CUT ON THE TOP SHALL BE COVERED WITH A PROTECTIVE CAP OVERLAPPING THE TOP OF THE ARCH BY NOT LESS THAN ⅜INCH. THE 4 TO 1OR 6 TO 1 BEVEL SHALL BE ENCASED WITH A PROTECTIVE CAP OVERLAPPING EACH SIDE OF THE CUT BY NOT LESS THAN ⅜INCH. THE PROTECTIVE CAP IS TO BE THE SAME MATERIAL AS THE PIPE AND MINIMUM 14 GAGE (.079"). PROTECTIVE CAPS SHALL BE WELDED WITH 1/8INCH WELDS ALTERNATING FROM SIDE TO SIDE OFTHE CAP AT 12 INCH INTERVALS. WELDS SHALL BE AT THE ENDS OF ALL CAPS, REGARDLESS OF SPACING. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS SECTION 645.
4. CONNECTIONS OF GALVANIZED STEEL END TREATMENTS TO CORRUGATED ALUMINUM OR ALUMINIZED STEEL PIPE MUST UTILIZED A POLYMER COATED GALVANIZED STEEL BAND MEETING THE REQUIREMENTS OF AASHTO M 256 84.
5. ADAPTER SLEEVE IS TO BE CONSTRUCTED OF GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M 218, MINIMUM 12 GAGE (.109") MATERIAL.
6. BOTTOM SAFETY BAR SHALL HAVE A MAXIMUM CLEARANCE OF 5" WHEN MEASURED FROM THE BOTTOM OF THE INSTALLED BAR TO INSIDE CREST OF PIPE CORRUGATION.



SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF THE END SECTION ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERANTE MAY BE SPECIFIED INSTEAD.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(METAL)
(FOR SIDE DRAIN PIPE-OR FOR STORM
DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE 2

NO SCALE — JAN. 2005

DESIGNED ____ DRAWN ____ TRACED ____ CHECKED ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 1122

SHEET 2 OF 3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

benesch
Alfred Benesch & Company
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Augusta, GA 30901
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www.benesch.com

REV. NO.	DATE	REVISION BLOCK DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-011

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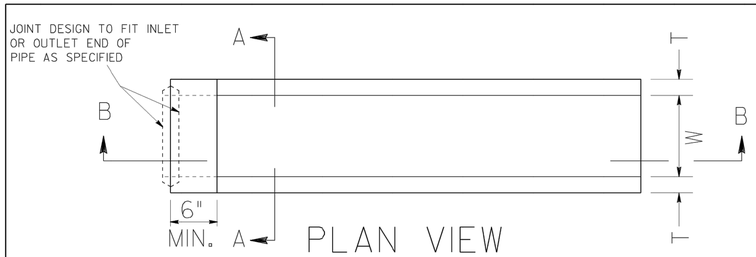
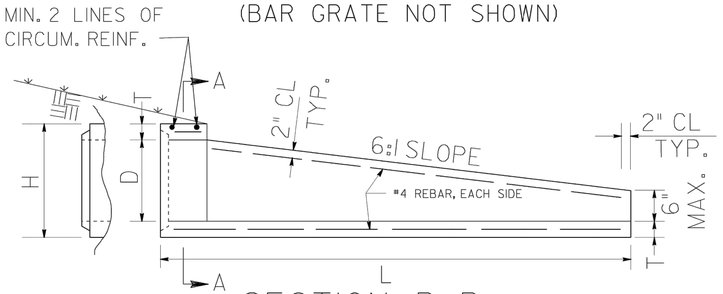
3/23/2005 9:59:40 AM \\GDOT-DSN1\GOPLOT\QCF\GO_TIFF_OUTPUT.QCF GOWENS M:\GARY\REVISED 1122 AND 1122P\11223.PRF GQ-RQ6



PLAN VIEW

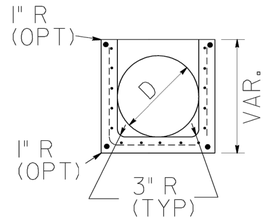
(BAR GRATE NOT SHOWN)



SECTION B-B

ALTERNATE 3

PIPE DIA	T (MIN)	D	H	L
15"	3"	15"	21"	4'-6"
18"	3"	18"	24"	6'-0"
24"	3"	24"	30"	9'-0"
30"	4"	30"	38"	12'-6"
36"	4"	36"	44"	15'-6"
42"	4"	42"	50"	18'-6"
48"	5"	48"	58"	22'-0"



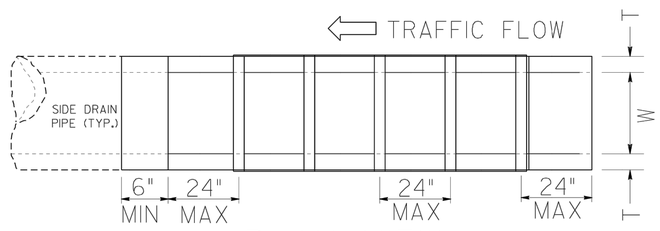
SECTION A-A

GENERAL NOTES:

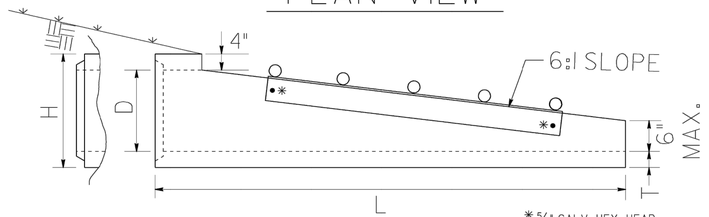
1. CONCRETE STRENGTH SHALL BE 4000 PSI MINIMUM
2. REINFORCING SHALL BE PER AASHTO M170, CLASS II REINFORCED CONCRETE PIPE, PLUS ONE #4 BAR TOP AND BOTTOM, EACH SIDE.
3. WALLS MAY HAVE 1/4" TAPER. WALL THICKNESSES SHOWN ARE THE MINIMUM.
4. LIFT HOLES MAY BE PROVIDED IN THE SIDE WALLS FOR HANDLING.
5. END SECTION JOINT WILL BE A MATCHED FIT TO THE ADJOINING PIPE JOINT AT ALL INLET AND OUTLET ENDS. NON-FITTING JOINTS WILL REQUIRE A BUILT-IN-PLACE REINFORCED COLLAR CONNECTION WITH NO ADDITIONAL PAYMENT.
6. ALL END SECTIONS FOR PIPES WITH "D" OVER 24" ON SINGLE LINES WILL HAVE GALV. SAFETY BARS, SPACED NOT MORE THAN 24" ON CENTERS, AND INSTALLED PERPENDICULAR TO THE MAINLINE TRAFFIC FLOW. ALL END SECTIONS FOR MULTIPLE LINE PIPES WILL HAVE GRATES.
7. TYPICAL USE OF SAFETY END SECTIONS IS AT THE ENDS OF PIPES UNDER DRIVEWAYS OR SIDEROADS WHERE THE PIPE CULVERT IS PARALLEL TO THE MAINLINE AND FALLS INSIDE THE MAINLINE CLEAR ZONE WIDTH.

D	(MIN) GRATE LENGTH	GRATE WIDTH (TYP) #
15"	2'-4"	1'-9 5/8"
18"	2'-4"	2'-0 5/8"
24"	6'-4"	2'-6 5/8"
30"	8'-6"	3'-2 5/8"
36"	12'-4"	3'-8 5/8"
42"	14'-6"	4'-2 5/8"
48"	18'-4"	4'-10 5/8"

TYPICAL GRATE WIDTHS SHOWN ARE MEASURED FROM INSIDE TO INSIDE OF THE 3/8" THICK ANGLE IRON. GRATE FIT WITH END SECTION SHALL BE CHECKED BEFORE DELIVERY.

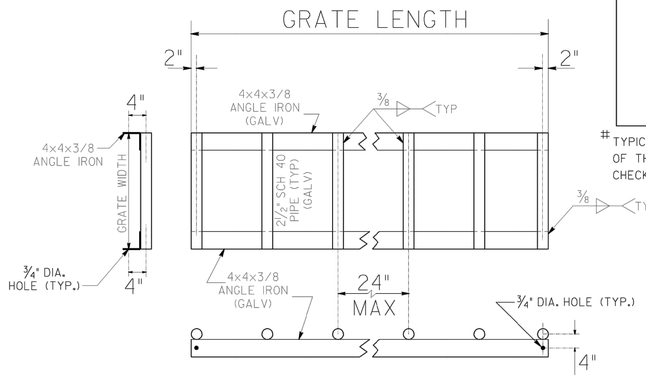


PLAN VIEW



SIDE VIEW

*5/8" GALV. HEX HEAD BOLT, WASHER & NUT (FOUR) CONNECTIONS



GALVANIZED SAFETY GRATE DETAIL

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REV. NO.	DATE	REVISION BLOCK DESCRIPTION

G.L.D. BY	REVISED TO 1122 PAGE 3 REVISION	1-28-05 DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(CONCRETE)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE 3

NO SCALE — OCT., 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 1122
SHEET 3 OF 3

benesch
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Augusta, GA 30901
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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-012

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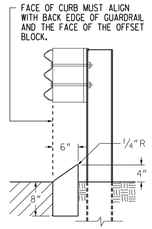
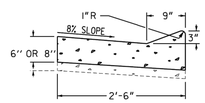


TYPE 8

TYPE 8 HEADER CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4382.

CURB TYPE	h	d
1	3" OR 4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	3" OR 4"	8" min.

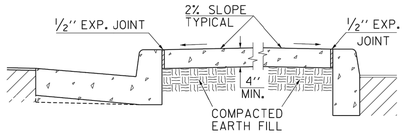
RAISED EDGE WITH CONCRETE GUTTER



RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.

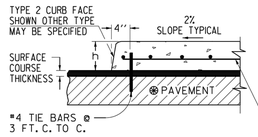


NOTE:
WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

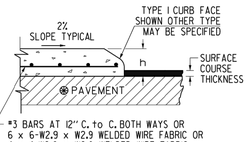
NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIANS (Integral)

-WITH TIE BARS-

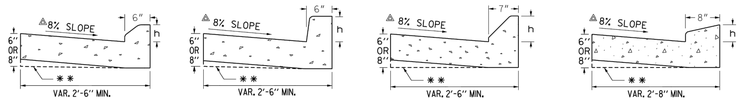


-WITHOUT TIE BARS-



NOTE:
IF FINAL SURFACE COURSE IS PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE CURB & GUTTER

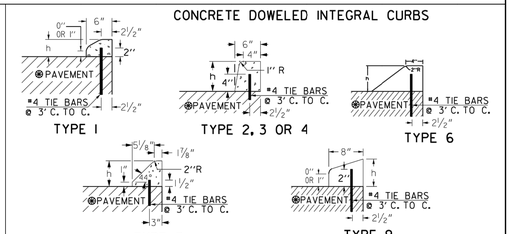


TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7 | TYPE 9

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

△ WHEN POSITIVE SUPERELEVATION IS REQUIRED, THE SLOPE OF THE GUTTER ON THE HIGH SIDE SHALL BE A CONTINUATION OF THE SLOPE OF THE SUPERELEVATED PAVEMENT.

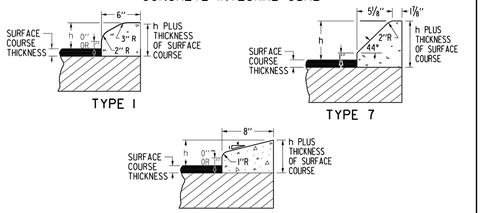
CONCRETE DOWELED INTEGRAL CURBS



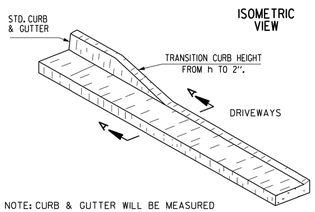
NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.
5. TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT, (AASHTO M-31)

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 OR 4	8"	12"
6	6"	8"
7	6"	8"
9	6"	8"

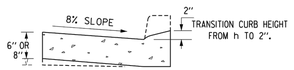
CONCRETE INTEGRAL CURB



DETAILS OF RECESSED CURB FOR DRIVEWAYS



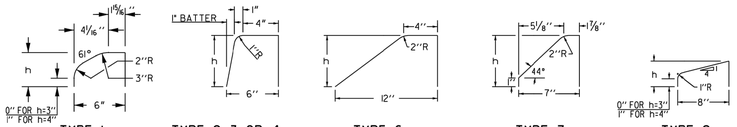
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

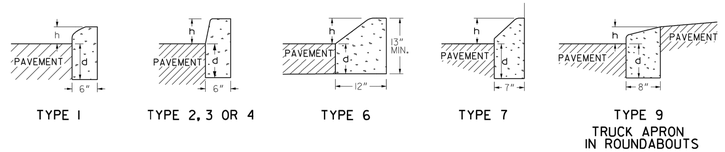
(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CURB FACE DESIGN



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

CONCRETE HEADER CURBS



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9 TRUCK APRON IN ROUNDABOUTS

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

REV. NO.	DATE	REVISION DESCRIPTION
AKP	01-04-22	ADD 7" HEIGHT TO TP 1 & 9
ACP	04-25-21	REV TP 1 CF.D.RADIUS DWG
		REV TP 9 CF.D.DW HT TO 1 FROM GR. LEVEL TO RADIUS
	02-10-20	REV. TYP.1 CF.D.L. TYP.8
		OFFSET BUCK & TYP.9 CURB
		ADDED TP 9 CURB & GUTTER
	II-15-11	REV. TYPE 9 CURB DETAIL
TC		& REV. OVERALL LAYOUT
	1-27-11	REV. MEDIAN NOTE AND
GLO		ADDED TYPE 9 CURB DETAIL
	3-03	ADDED TP 9 DETAIL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

NOT TO SCALE — MAR. 2003

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9032B

GDOT Georgia Department of Transportation — P. I. Number

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SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

ATHENS-CLARKE COUNTY, GA

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-013

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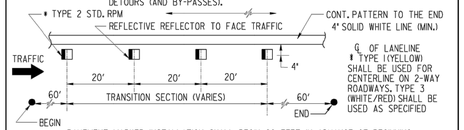
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TEMPORARY RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS. UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND. THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED: APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

BY	DATE	REVISION
GLO	4-24-01	SPEC. BAR. SH. SPEC.
		DETAILS.
		AND LEGEND, DELETED TWO
	3-30-06	REVISED GENERAL NOTES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9100

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REV. NO.	DATE	DESCRIPTION
		REVISION BLOCK

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-014

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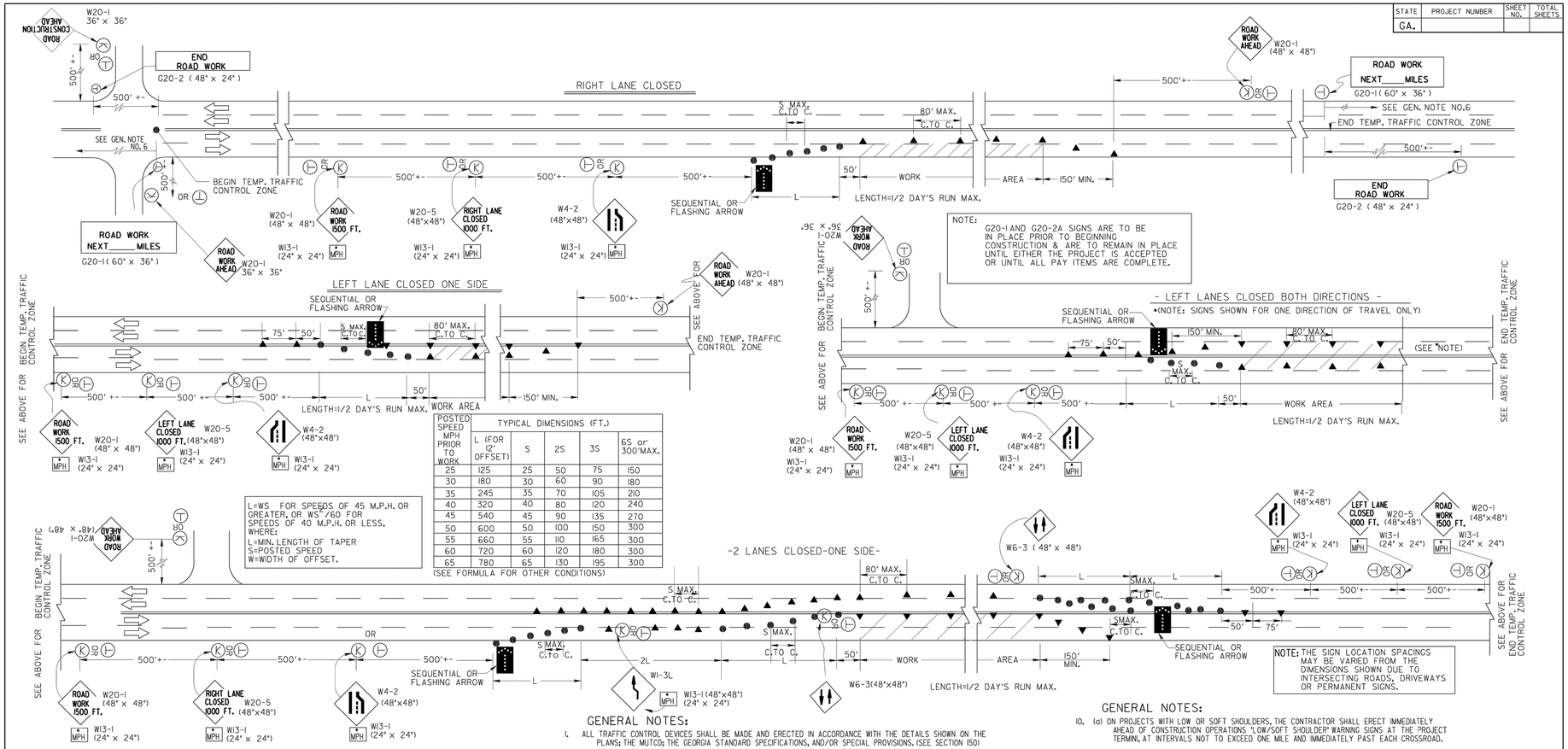
8/3/2006 11:54:00 AM \\GDOT-DSAI\GOPLOT\GCF\go_tiff_output.gcf gowens M:\GARY\Revised 9107\9107.prf GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



POSTED SPEED MPH PRIOR TO WORK	TYPICAL DIMENSIONS (FT.) L (FOR 12' OFFSET)	S	2S	3S	6S or 300'MAX.
25	125	25	50	75	150
30	180	30	60	90	180
35	245	35	70	105	210
40	320	40	80	120	240
45	540	45	90	135	270
50	600	50	100	150	300
55	660	55	110	165	300
60	720	60	120	180	300
65	780	65	130	195	300

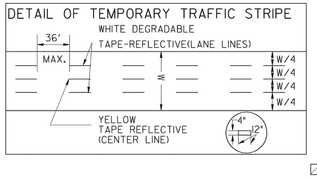
(SEE FORMULA FOR OTHER CONDITIONS)

L=WS FOR SPEEDS OF 45 M.P.H. OR GREATER, OR $WS^2/60$ FOR SPEEDS OF 40 M.P.H. OR LESS.
WHERE:
L=MIN. LENGTH OF TAPER
S=POSTED SPEED
W=WIDTH OF OFFSET.

FOR LOCATIONS ON THIS PROJECT INVOLVING ADDED TURN LANES, THE DISTRICT TRAFFIC OPERATIONS OFFICE WILL FURNISH A SCHEMATIC DRAWING OF THE TEMPORARY PAVEMENT MARKINGS AT THE PRE-CONSTRUCTION CONFRENCE.

(WHERE OTHER PAVEMENT MARKINGS ARE REQUIRED FOR TRAFFIC CONTROL, SEE SEC.150)

DETAIL OF TEMPORARY TRAFFIC STRIPE



- WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED.

STANDARD LEGEND

- ● STRIPED DRUM
- ⊢ TEMPORARY POST MOUNTED SIGN (OFF SHOULDER) --FOR LONG TERM LANE CLOSURE SUCH AS STATIONARY OPERATIONS, BRIDGE WIDENING PROJECTS ETC. - (7' MOUNT HEIGHT)
- Ⓚ PORTABLE MOUNTED SIGN (ON SHOULDER) --FOR SHORT TERM LANE CLOSURE SUCH AS MOVING OPERATIONS, RESURFACING PROJECTS, ETC. (SEE GENERAL NOTE. NO. 3)
- ▲ TRAFFIC CONE - 28" MIN. (DAYTIME USE ONLY)
- SEQUENTIAL OR FLASHING ARROW
- WORK AREA

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.

GENERAL NOTES:

10. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
11. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.
12. THE G20-1 SIGNS SHOULD BE PLACED AT EACH TERMINUS OF THE PROJECT, PREFERABLY BETWEEN THE LAST ADVANCE WARNING SIGN(ROAD WORK- 500 FT.) AND BEFORE THE ADVANCE WARNING SIGNS FOR LANE SHIFTS, LANE CLOSURES, ETC.

REV. NO.	DATE	DESCRIPTION
QLO	3-30-06	REMOVED FLAGS AND REV. GENERAL NOTES, REV. SIGN G20-2A TO G20-2.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL
FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

DES. ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
DRW. ____
TRA. ____ (APPROVED) CHIEF ENGINEER
CHK. ____

NUMBER 9107

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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-015

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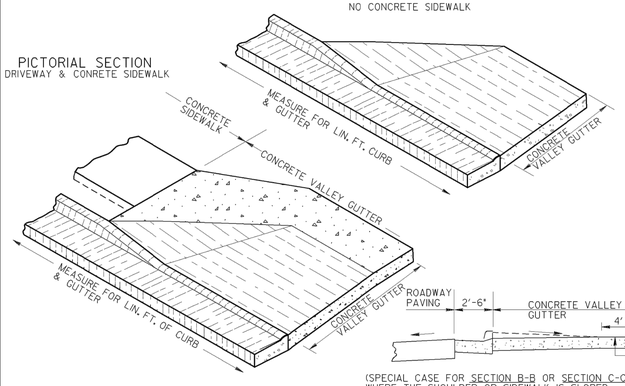
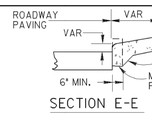
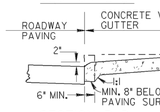
PICTORIAL SECTION
NO CONCRETE SIDEWALK

PICTORIAL SECTION
DRIVEWAY & CONRETE SIDEWALK



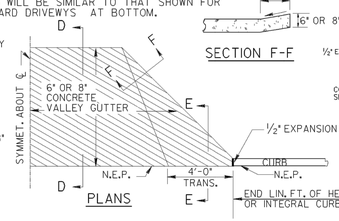


SECTION E-E

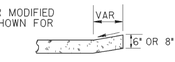


SECTION D-D

NOTE:
PLAN VIEW DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWAYS AT BOTTOM.

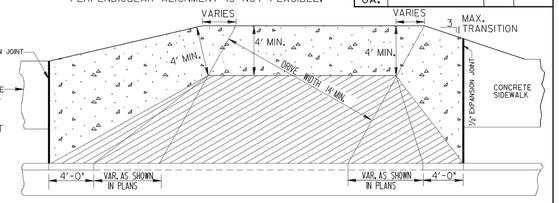


PLANS



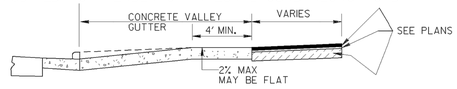
SECTION F-F

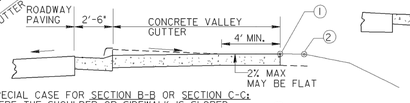
NOTE: DRIVEWAYS WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



DRIVE ENTRANCE MODIFIED FOR SKEW

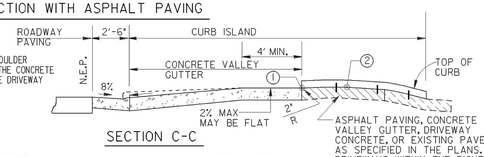
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY





(SPECIAL CASE FOR SECTION B-B OR SECTION C-C: WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

SECTION WITH ASPHALT PAVING

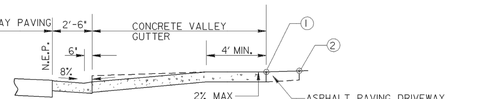


SECTION C-C

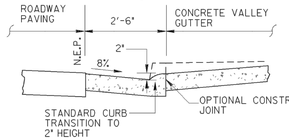
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

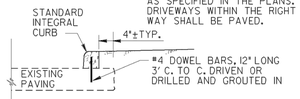
NOTE: ① AND ② MAY COINCIDE



SECTION B-B



NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



DOWELED CURB DETAIL

GENERAL NOTES:

1. QUANTITIES SHALL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY---
   LIN. FT. OF CURB & GUTTER SHALL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER SHALL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY---
   LIN. FT. OF CURB SHALL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OR THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E, ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND PAVED TO THE RIGHT OF WAY LINE.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS SHALL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS SHALL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8% (12") WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

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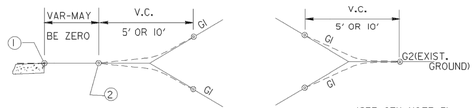
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

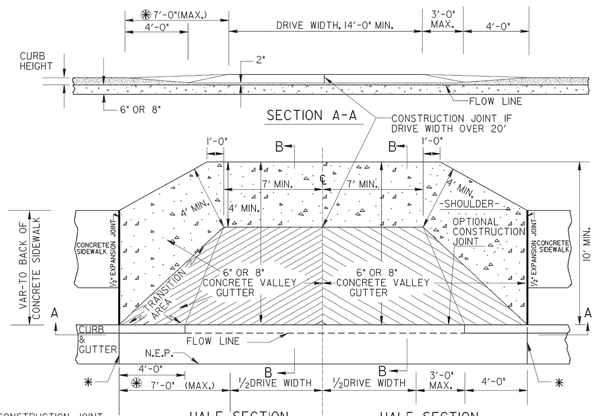
NOTE: ① AND ② MAY COINCIDE

V.C.	MAXIMUM GI	
	CUT	FILL
5'	21%	16.67%
10'	28%	27%

V.C.	G1-G2 (MAX. ALGEBRAIC GRADE CHANGE)	
	SAG	CREST
5'	20%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)



SECTION A-A

* CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED AT BACK OF THE CURB.

HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

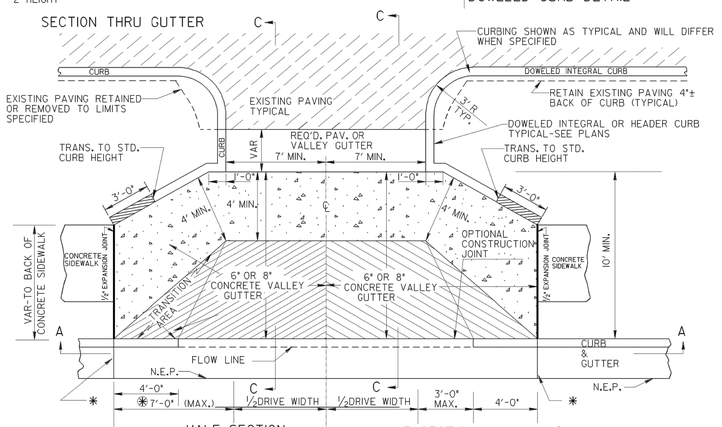
PLAN

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

PLAN

HALF SECTION

PLAN

DRIVEWAY WITH CURB ISLAND

(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

* CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

* 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

This Detail Replaces Ga Standard 6050

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

REV. NO.	DATE	REVISION	BY
	7-29-11	REV. PAVEMENT NOTES, REV. 12" TO 14" MIN., REV. SWALK	GLO
	4-11-02	REVISED	
	4-3-02	REVISED	

NUMBER A1

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

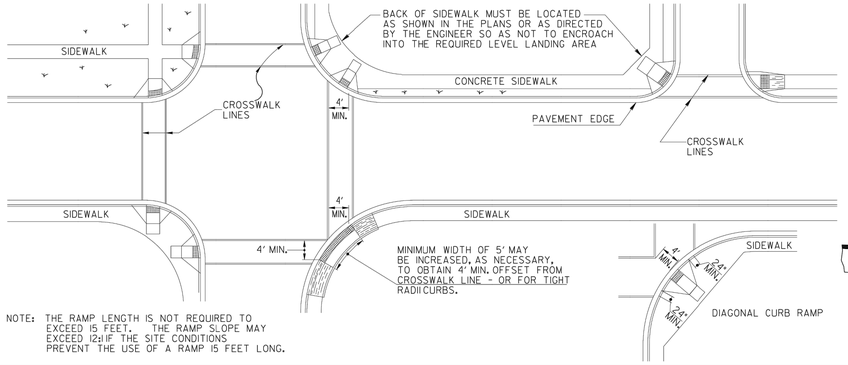
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-016

7/22/2011 2:16:33 PM \\GDOT-DSNI\GOPLOT\QCF\GO_Kip8000.qcf gowens V:\GARY\revised A-1, A-2\A-1.prf

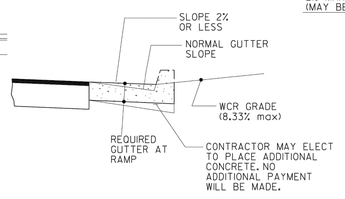
TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

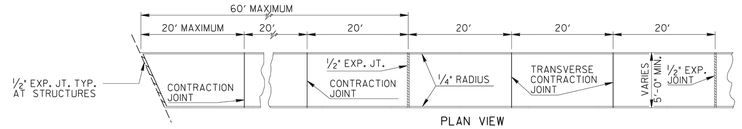
DIAGONAL CURB RAMP

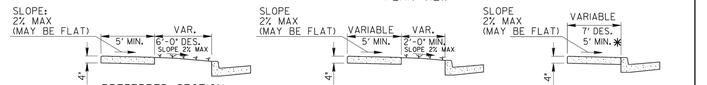
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





*16' SHOULDER RECOMMENDED WITH THIS INSTALLATION

*5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS,ETC)

7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK)

NOTES FOR CONCRETE SIDEWALK:

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

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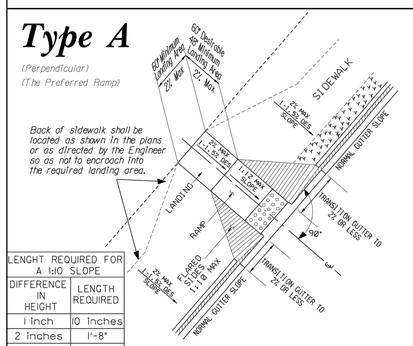
Type A

(Perpendicular)

(The Preferred Ramp)

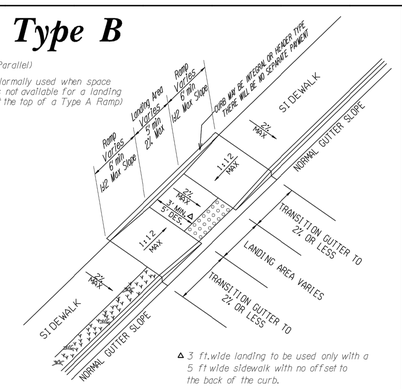


LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

Type B

(Parallel)

(Normally used when space Is not available for a landing at the top of a Type A Ramp)

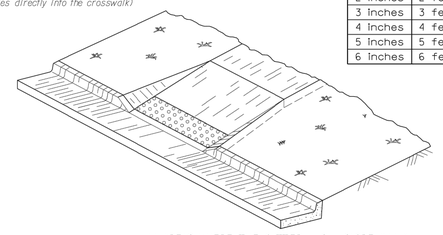


△ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

(Perpendicular)

(Normally used when the sidewalk ties directly into the crosswalk)

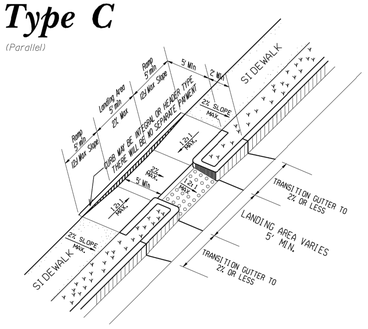


IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet

Type C

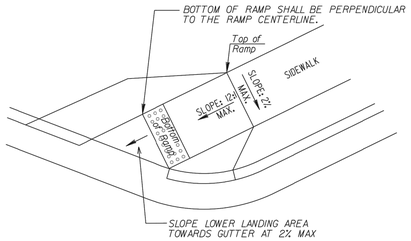
(Parallel)

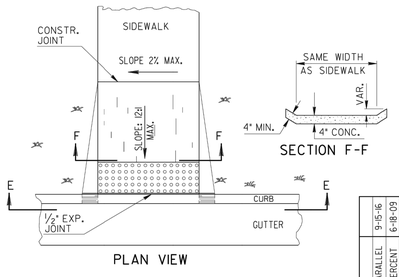


Skewed Ramp Details

(Applies to Type A Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.





REVISION	DATE	DESCRIPTION
ADDED PERP. OR PARALLEL	9-15-16	
REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1CHART.	6-18-09	
ADDED GEN. NOTE NO. 8.	5-10-06	
REV. TRUNCATED DOMES	2-21-03	
REVISED	2-10-03	
REVISED	7-29-02	
REVISED	5-29-02	
REVISED	5-23-02	
REVISED	5-13-02	
REVISED	4-29-02	
REVISED	4-8-02	
REVISED	4-3-02	
REVISED	3-28-02	
CJB		
GLO		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE — MARCH 12, 2002

NUMBER A3

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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-017

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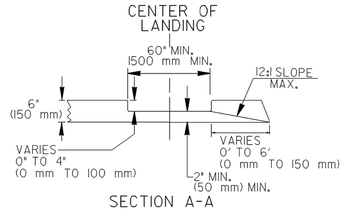
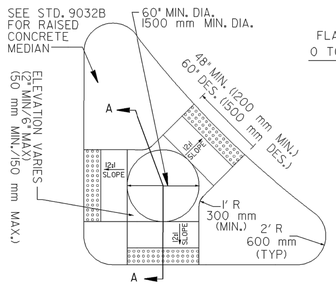
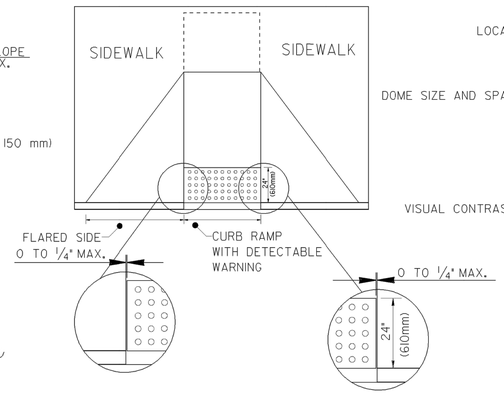
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH

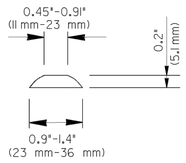


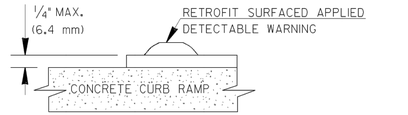
SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

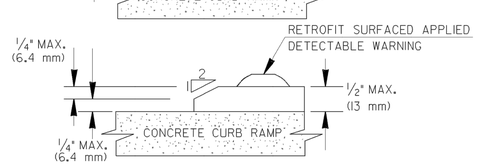
LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

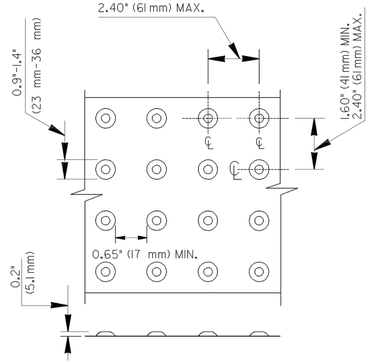
DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.9 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

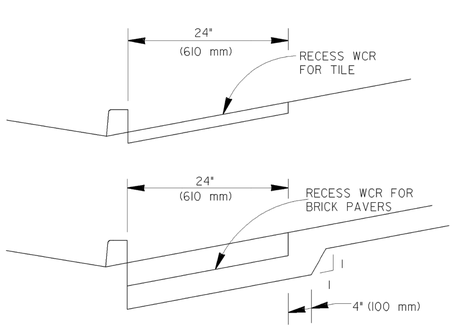
VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.



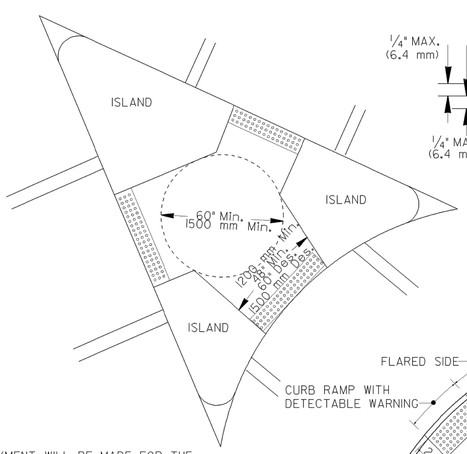






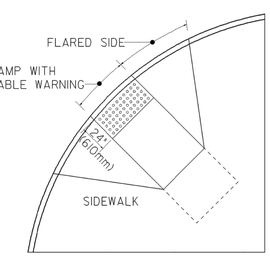


FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

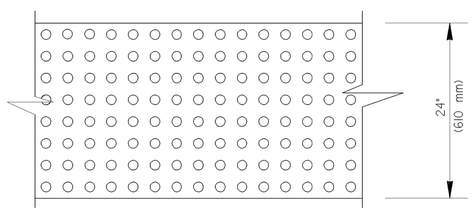


NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.



DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

GENERAL NOTES:

RETROFIT SURFACED APPLIED MATERIALS ONLY:

1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

REV. NO.	DATE	DESCRIPTION
QLO	6-18-09	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES
	10-2-06	ADDED TOLERANCE TO DTL.
QLO	5-16-06	REVISED TRUNCATED DOMES AND NOTES.
QLO	1-14-02	REVISED
	7-29-02	REVISED
BY	DATE	REVISION BLOCK

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

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ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

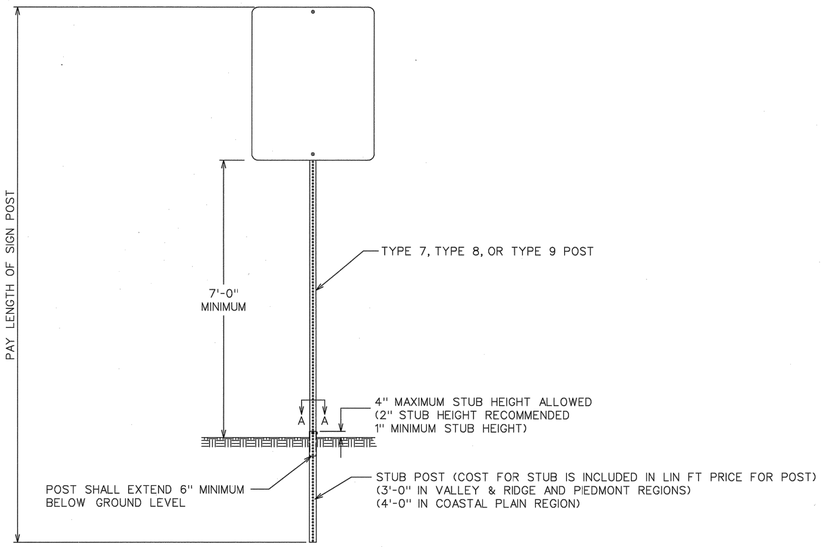
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION
JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-018

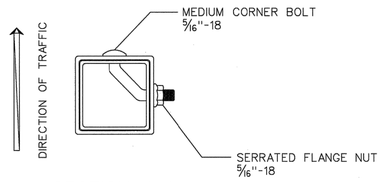
6/18/2009 1:42:32 PM \\GDOT-DSN1\GOPLOT\GCF\ga_tiff_output.gcf gawens V:\GARY\ada ramp details\a4.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2 1/4" x 2 1/4"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2"14 ga.		TYPE 9 2-1/4"14 ga.	TYPE 8 2-1/2"12 ga.	TYPE 8 2-1/2"12 ga.		TYPE 8 w/TYPE 9 insert* 2-1/2"12 ga. W/2-1/4"14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

T-3A

PCSDT8

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REV. NO.	DATE	REVISION DESCRIPTION

ATHENS-CLARKE COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

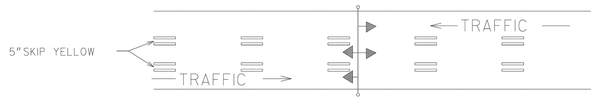
PROJECT NAME: TIMOTHY ROAD SHARED USE PATH SECTION II

PROJECT INFORMATION

JOB NO: 19023002
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023002E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet: 80-019

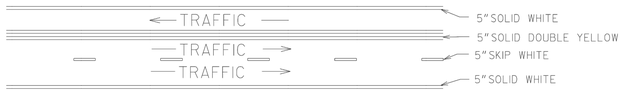
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

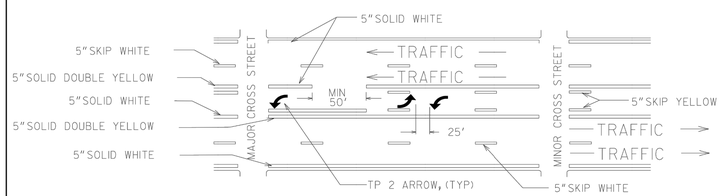
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS

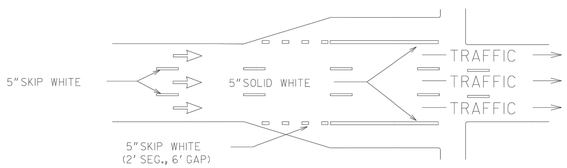


TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS

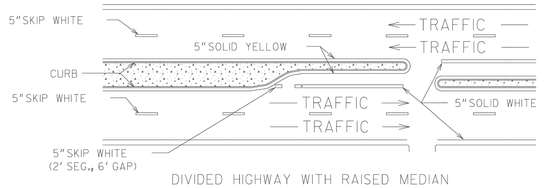
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



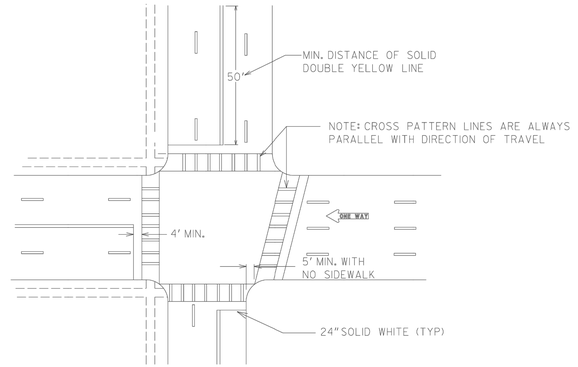
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



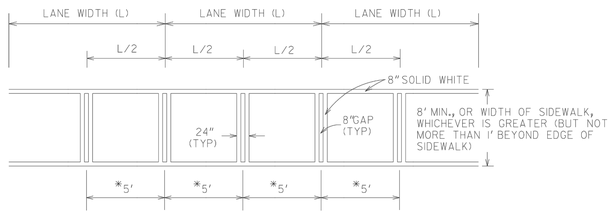
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12'
OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIB.

REV. NO.	DATE	REVISION DESCRIPTION
3	9-15-16	ADDED GENERAL NOTE 3

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

NO SCALE — JANUARY 2000

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____
CDR BY

NUMBER
T-IIA

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ATHENS-CLARKE COUNTY, GA

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80-020