

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
Encroachment Permit**

Permit No : 250140

Permit Decision Date :
11/24/2021

Expiration Date : 11/24/2022

Type

Permit : MUNICIPALITY /
LOCAL FUNDED
PROJECT

Location:

<u>District</u>	<u>Work County</u>	<u>Type</u>	<u>Route</u>	<u>Aux</u>	<u>Begin MP</u>	<u>End MP</u>
3	Greenville, SC	US	276	None	25.203	25.167
3	Greenville, SC	US	276	None	25.191	25.190
3	Greenville, SC	US	276	None	25.190	25.191

Contact Information

Applicant: CityofTravelersRestcoSynTerraCorp

Phone:

Contact: Brian Green, P.E.

Address: 148 River St,220

City: Greenville

State: SC

Zip: 29601

Comments

oDiagonal crosswalk and sidewalk expansion are located at intersection of McElhaney Road, Center Street, North Main Street, and South Main Street. Sidewalk expansion is proposed in turn radius between Center Street and North Main Street on Northeast corner of intersection.oNew road markings to be installed on Center Street beginning at intersection with North Main Street and continuing 400 linear feet Northeast.oAdditional resealing of crosswalks at following intersections -South Main Street and Church Street -South Main Street and South Poinsett Highway -South Main Street and Old Buncombe Road -South Main Street and Roe Road

Special Provisions:

0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.

0104 - ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. THE VALVES WILL BE LOCATED OUT OF THE PAVEMENT. THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE.

0105 - ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE SIDE OF THE

TRENCH AWAY FROM THE TRAVELED ROADWAY, AND SHALL BE NO CLOSER THAN FIFTEEN (15) FEET TO THE EDGE OF PAVEMENT.

0123 - ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.

0203 - ENTIRE WIDTH OF SIDEWALK TO BE REMOVED AND DISPOSED OF OFF RIGHT-OF-WAY. SIDEWALK TO BE REPLACED USING CLASS 2500 CONCRETE, 4" THICK, AND FINISHED TO SCDOT SPECIFICAIONS.

0204 - SIDEWALK OR CURB AND GUTTER REMOVAL SHALL BE REPLACED FROM JOINT TO JOINT.

0209 - DISTURBED VEGETATION SHALL BE RESEDED ACCORDING TO THE SPECIFICAION FOR HIGHWAY CONSTRUCTION.

0210 - ALL SIDEWALKS TO INCLUDE AT DRIVEWAY RADIUS SHALL MEET (ADAAG) AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.

0303 - THE ENTIRE DISTURBED AREA SHALL BE TOP-SOILED USING 3" OF SELECTED MATERIAL AND RE-GRASSED TO SCDOT SPECIFICATIONS.

0304 - PAVEMENT MARKINGS ALTERED DURING THIS INSTALLATION SHALL BE RESTORED BY THE APPLICANT.

0306 - TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY APPLICANT AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

0308 - WORK SHALL NOT BE PERFORMED DURING THE HOURS OF 7-9 AM OR 4-6 PM.

0310 - FIELD CHANGES, IF NECESSARY, MUST BE APPROVED IN WRITING BEFORE ACTUAL CONSTRUCTION OF PROPOSED CHANGES.

0311 - SEDIMENT AND EROSION CONTROL DEVICES SHALL BE USED TO MINIMIZE THE MOVEMENT OF SEDIMENT.

0312 - THE PERMITTEE SHALL HOLD THE DEPARTMENT HARMLESS FOR DAMAGES TO BOTH UPSTREAM AND DOWNSTREAM PROPERTIES.

0316 - ALL NON-PERMITTED OBJECTS ON THE RIGHT-OF-WAY, WHICH MUST BE REMOVED, SHALL NOT BE REPLACED ON THE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.

0317 - THE APPLICANT IS TO PROVIDE ALL THE NECESSARY MAINTENANCE TO THE AREA BEAUTIFIED.

0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.

0320 - ALL DEBRIS TO BE CLEARED FROM THE RIGHTS-OF-WAY WITHIN TEN (10) DAYS.

**FLAGGING OPERATIONS
MULTIPLE FLAGGERS
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES
TRAFFIC SIGNAL CONTROLLED
INTERSECTION
FLAGGERS**

1. See "Work Zone Traffic Control Procedures, Flagging Operations" for standard requirements regarding all flagging operations.
2. In accordance with this traffic control setup, when the work zone proceeds through or encroaches upon the Limits of the Intersection of a "traffic signal controlled" intersection, place the traffic signal on "normal flashing operations". Utilize Side Road Flaggers on the Side Road approaches of the intersection to control the traffic from the Side Roads. Clear communications by radio or other effective method between the Side Road Flaggers and the Open Lane Flagger and the Closed Lane Flagger of the lane closure is required to ensure safe and efficient control of all traffic approaching the intersection. Upon clearance of the Limits of the Intersection by the work train and all portions of the lane closure, ensure the traffic signal is returned to normal operational status and is operating in accordance with all operational functions prior to initiation of the "normal flashing operations".
3. When the work zone proceeds through a "traffic signal controlled" intersection, do not allow the Approach Taper or the Downstream Taper of the lane closure to encroach upon the limits of the intersection. Only the Buffer Space or the Work Activity Area of the lane closure may encroach upon the Limits of the Intersection.
4. When the work zone proceeds through a "traffic signal controlled" intersection, continue the work operations through the intersection to a specific location point within the Departure Lane no less than 300 feet to 500 feet beyond the Limits of the Intersection to allow the work train and all portions of the lane closure to clear the intersection.

200' TO 400' WITHOUT TRUCK MOUNTED ATTENUATOR
TRAFFIC CONTROL DEVICES SPACING INTERVALS BASED UPON POSTED REGULATORY SPEED LIMIT

200' TO 400' WITH TRUCK MOUNTED ATTENUATOR
TRAFFIC CONTROL DEVICES SPACING INTERVALS BASED UPON POSTED REGULATORY SPEED LIMIT

APPROACH TAPER
50' TO 100' TAPER
NO LESS THAN FIVE (5) TRAFFIC CONTROL DEVICES IN THE TAPER
EQUALLY SPACED @ 10' TO 25' INTERVALS AS NECESSARY TO CORRESPOND WITH THE LENGTH OF THE TAPER

CLOSED LANE FLAGGER

W20-7-48

W20-4-48-A

W20-1-48-A

PREPARE TO STOP

FLAGGER AHEAD

*** UTILIZE A TRAILER MOUNTED CMS DURING NIGHTTIME FLAGGING OPERATIONS ***

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY AREA	
SPEED LIMIT	SPACING INTERVALS
35 MPH OR LESS	25 FEET
40 MPH OR GREATER	50 FEET

SIGN PLACEMENT INTERVALS			
SPEED LIMIT	*	*	*
LOW SPEED 35 MPH OR LESS	200	200	200
INTERMEDIATE SPEED 40 - 50 MPH	350	350	350
HIGH SPEED 55 MPH OR GREATER	500	500	500

BUFFER SPACE DISTANCES	
SPEED LIMIT	DISTANCES
LOW SPEED 35 MPH OR LESS	200
INTERMEDIATE SPEED 40 - 50 MPH	300
HIGH SPEED 55 MPH OR GREATER	400

*** UTILIZE A TRAILER MOUNTED CMS DURING NIGHTTIME FLAGGING OPERATIONS ***

DURING UNPLANNED NIGHTTIME EMERGENCY OPERATIONS, THE CHANGEABLE MESSAGE SIGNS MAY BE OMITTED. THE REQUIREMENT FOR THE CHANGEABLE MESSAGE SIGNS SHALL BE MAINTAINED FOR ALL PLANNED NIGHTTIME WORK ACTIVITIES THAT REQUIRE FLAGGING OPERATIONS.

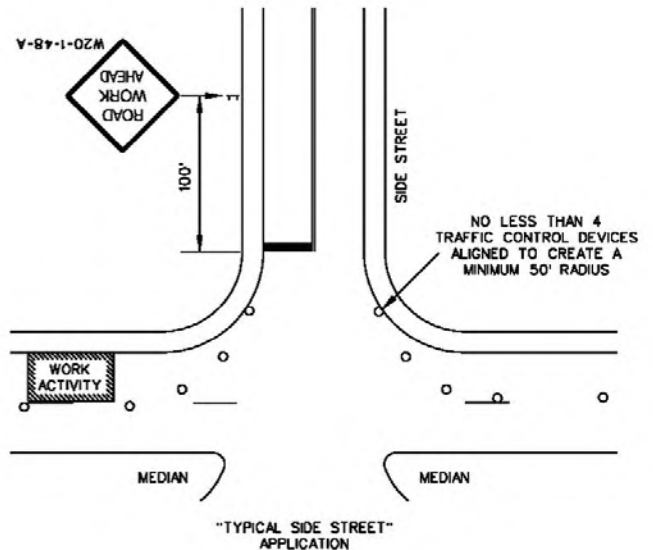
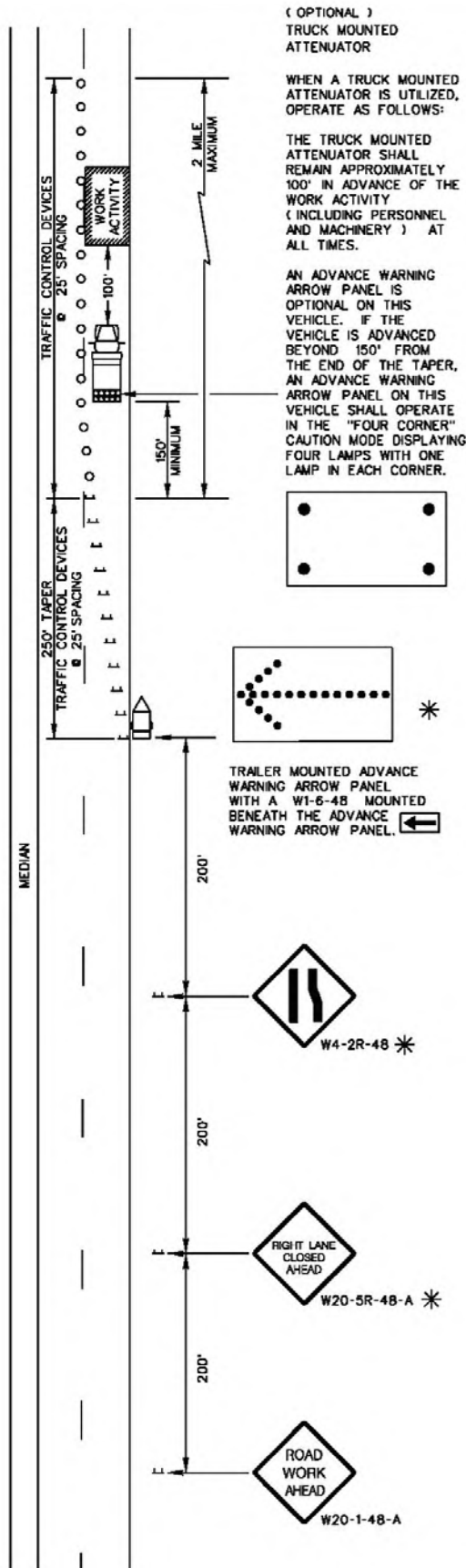
**LANE CLOSURE
LOW SPEED MULTILANE
< / = 35 MPH
PRIMARY & SECONDARY ROUTES**

1. These lane closures are restricted to maximum distances of 2 miles unless otherwise directed by the District Engineering Administrator.
2. Measure all advance warning sign locations from the beginning of the taper.
3. Install advance warning signs mounted on portable sign supports no less than 4 feet from the near edge of the sign to the near edge of an adjacent travel lane on roadways with grass shoulders and no less than 6 feet from the near edge of the sign to the near edge of an adjacent travel lane on roadways with paved shoulders. When a curb & gutter is present, install the sign no less than 2 feet from the near edge of the sign to the face of the curb.
4. On primary and secondary routes, the minimum mounting height of signs mounted on portable sign supports is 1 foot during this traffic control setup.
5. The advance warning sign placement intervals illustrated are for normal conditions. Adjustments to the distance intervals between the signs may be necessary due to sight distance restrictions such as curves and hills.
6. Install and operate a trailer mounted advance warning arrow panel within the taper of a single lane closure. Place the advance warning arrow panel on the roadway shoulder at the beginning of the taper. However, where the shoulders are narrow or site conditions restrict the use of the shoulder areas adjacent to the beginning of the taper, place the advance warning arrow panel behind the channelizing devices as close as practical to the beginning of the taper. Placement of the advance warning arrow panel at the beginning of the taper is preferred.
7. During daytime hours, 28" or 36" standard traffic cones may be utilized for delineation of the lane closure. The 28" and 36" standard traffic cones used during daytime hours are not required to be reflectorized.
8. During nighttime hours, portable plastic drums or 42" oversized traffic cones are required for delineation of the lane closure.
9. If a daytime work operation extends into the nighttime hours, replace 28" or 36" standard traffic cones with portable plastic drums or 42" oversized traffic cones.
10. Reflectorize all portable plastic drums and 42" oversized traffic cones with Type III flexible microprismatic retroreflective sheeting.
11. If work is being conducted at two different locations at the same time in the same travel lane on a low speed roadway, ≤ 35 MPH, separate the two locations by no less than 1 mile from the end of the first lane closure to the beginning of the taper of the second lane closure.
12. If work is being conducted at two different locations at the same time in different travel lanes on a low speed roadway, ≤ 35 MPH, separate the two locations by no less than 2 miles from the end of the first lane closure to the beginning of the taper of the second lane closure.
13. When a truck mounted attenuator is used, maintain the truck mounted attenuator approximately 100 feet in advance of the work activities.
14. Conduct the work in such a manner to avoid encroaching into the adjacent travel lane open to traffic.

15. A trailer mounted changeable message sign is not required but is optional. When a trailer mounted changeable message sign is utilized, install the changeable message sign on the shoulder of the roadway no less than 6 feet from the near edge of the sign to the near edge of the adjacent travel lane when space is available. When the 6 foot space or right-of-way is unavailable, place the trailer mounted changeable message sign at the greatest possible distance up to 6 feet from the near edge of the adjacent travel lane. When a trailer mounted changeable message sign is placed within the limits of a paved shoulder or remains in place adjacent to a travel lane regardless of shoulder type when inoperative, supplement the trailer mounted changeable message sign location with no less than 5 portable plastic drums placed between the sign and the adjacent travel lane for delineation of the sign location. This requirement for delineation of the sign location applies at all times under the aforementioned conditions during which the sign is within 15 feet of the near edge of a travel lane open to traffic. Use of 28" or 36" standard traffic cones or 42" oversized traffic cones as substitutes for the portable plastic drums in this application is PROHIBITED. The sign shall flash alternately to read "RIGHT LANE CLOSED", "MERGE LEFT" or "LEFT LANE CLOSED", "MERGE RIGHT" as necessary. Also, the messages shall flash at a rate to permit motorists to read both messages at least once.

16. This traffic control setup for a lane closure is only acceptable on low speed roadways with a posted regulatory speed of 35 MPH or less.

DRAWING 505-01
LANE CLOSURE
LOW SPEED MULTILANE
≤ 35 MPH
PRIMARY & SECONDARY ROUTES



* LEFT LANE CLOSURE

- 1.) SIGNS ILLUSTRATED ARE FOR A RIGHT LANE CLOSURE.
- 2.) WHEN CLOSING THE LEFT TRAVEL LANE, USE THE FOLLOWING:
1 - W4-2L-48
1 - W20-5L-48-A
- 3.) THE FLASHING ARROW AND W1-6-48 SHALL POINT TO THE RIGHT.

CITY OF TRAVELERS REST

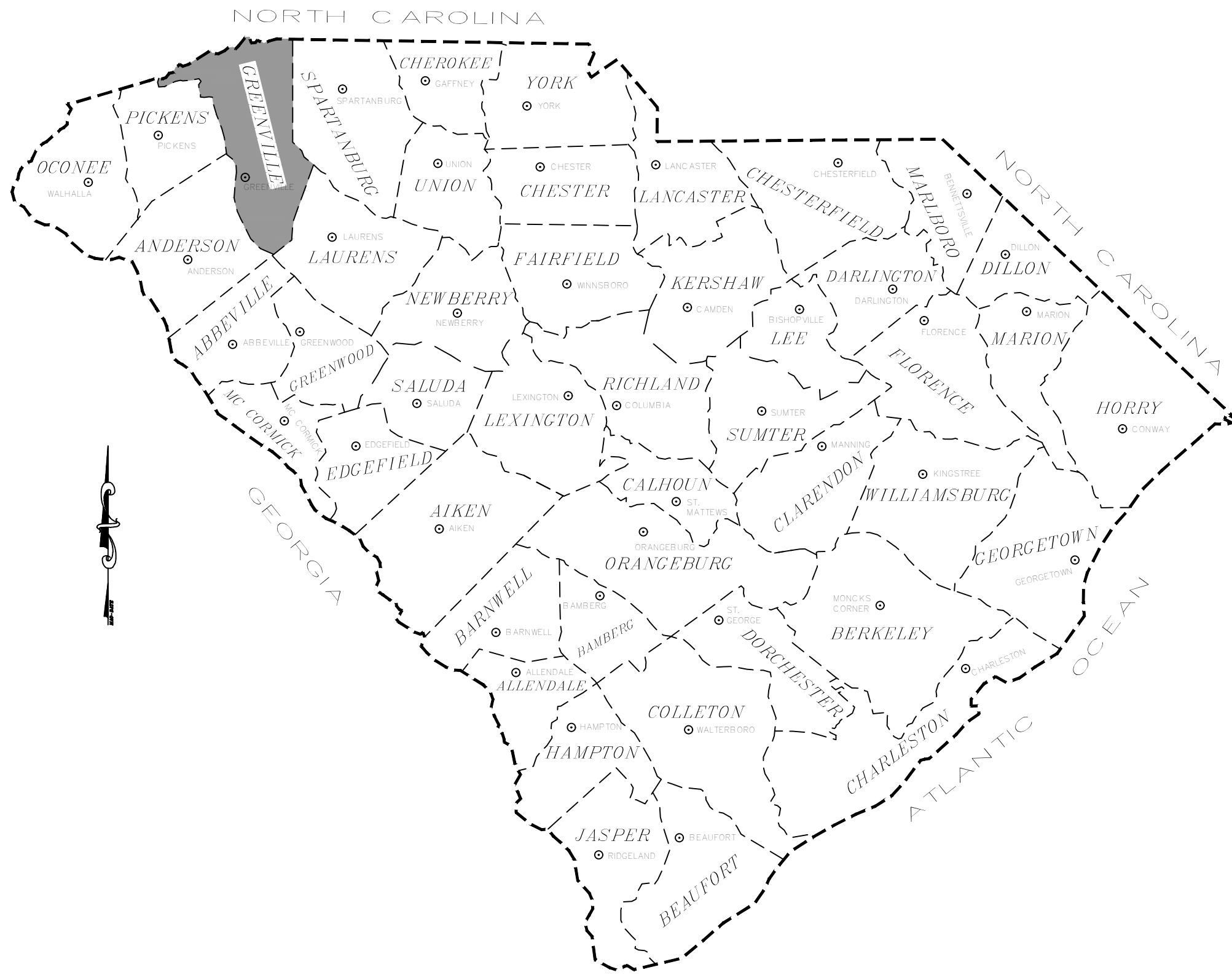
DIAGONAL CROSSING AND SIGNAL MODIFICATIONS MAIN STREET, CENTER STREET AND McELHANEY ROAD

GENERAL NOTES:

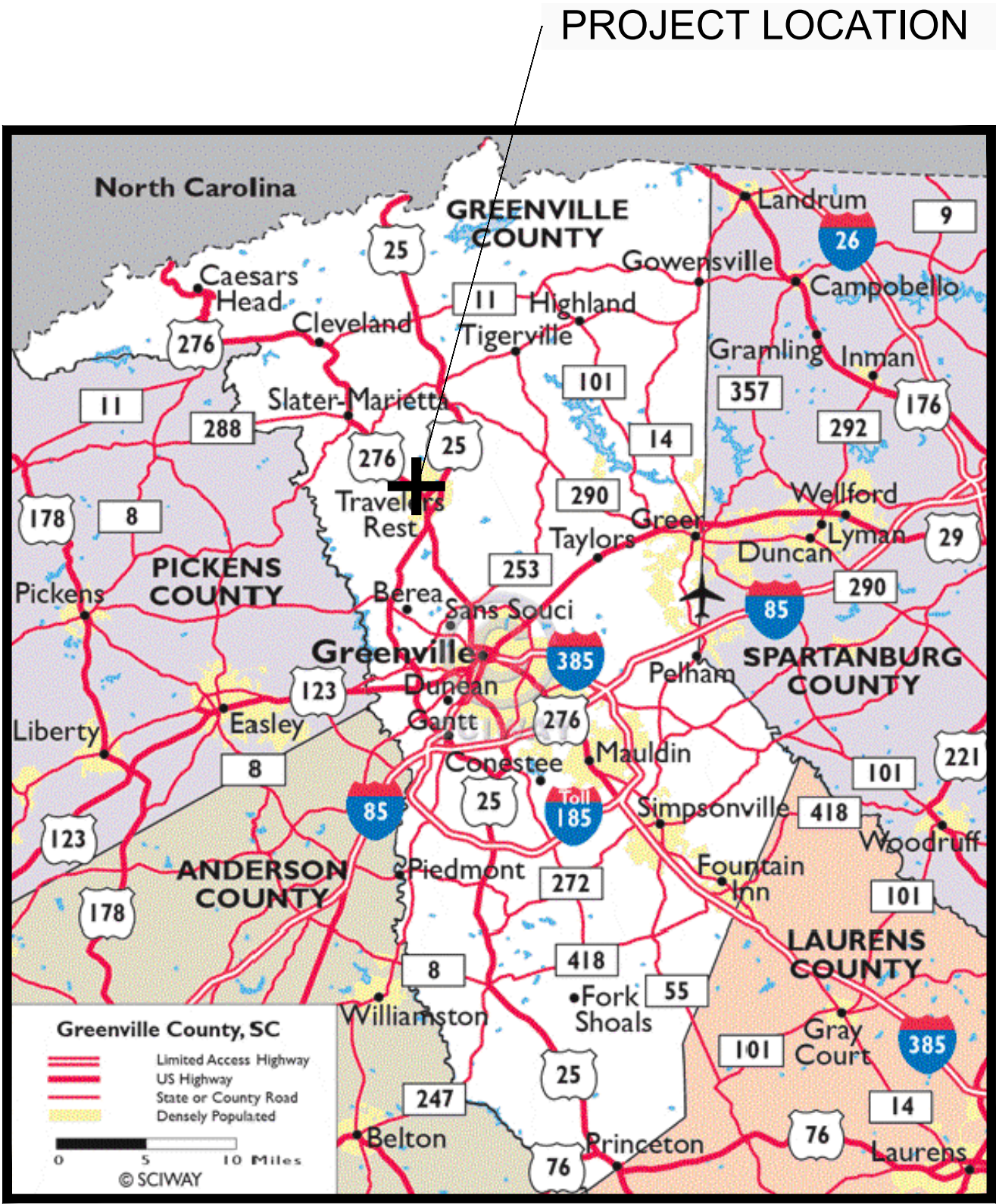
- Field verify location and depth of all existing underground utilities prior to commencing work.
- All equipment and material to be utilized by the contractor shall be included in the bid.
- All construction shall conform, but not limited, to Greenville County Stormwater regulations, SCDOT regulations, and ADA standards.
- Fill material shall be placed in 6" lifts (maximum) and 95% maximum dry density by the Standard Proctor Method, ASTM D-698.
- All fill material shall be clean dirt free from roots, rocks, other organic material, construction/demolition debris and trash.
- Dispose of all materials in a SCDHEC approved landfill.
- All marking to be 90 Mil thermoplastic to be in accordance with SCDOT 2007 Standard Specification Section 627.

DRAWING INDEX

DRAWING	SHEET TITLE	SHEET NUMBER
C01	TITLE SHEET	1 OF 13
C02	EXISTING CONDITION AND DEMOLITION	2 OF 13
C03	SITE PLAN PHASE 1	3 OF 13
C04	PLANTING PLAN	4 OF 13
C05	SITE PLAN DETAILS	5 OF 13
C06	E&SC DETAIL	6 OF 13
C07	E&SC DETAIL	7 OF 13
C08	SIGNAL MODIFICATIONS	8 OF 13
C09	PLANTING NOTES AND DETAILS	9 OF 13
C10	SCDOT TRAFFIC CONTROL PLAN	10 OF 13
C11	PEDESTRIAN DETOUR PLAN PHASE A	11 OF 13
C12	PEDESTRIAN DETOUR PLAN PHASE A	12 OF 13
C13	PEDESTRIAN DETOUR PLAN DETAIL	13 OF 13

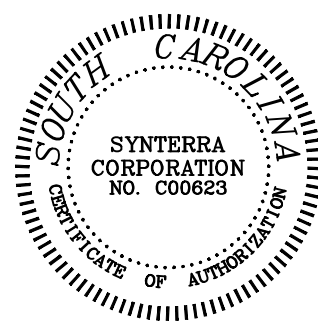


SOUTH CAROLINA VICINITY MAP
NOT TO SCALE



Location Map
NOT TO SCALE

PRELIMINARY NOT FOR CONSTRUCTION



CAUTION



THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



DATE	REVISION	BY
10/18/2021	FOR AGENCY REVIEW	GTC
09/23/2021	FOR AGENCY REVIEW	GTC
08/10/2021	FOR AGENCY REVIEW	GTC
07/08/2021	FOR AGENCY REVIEW	GTC

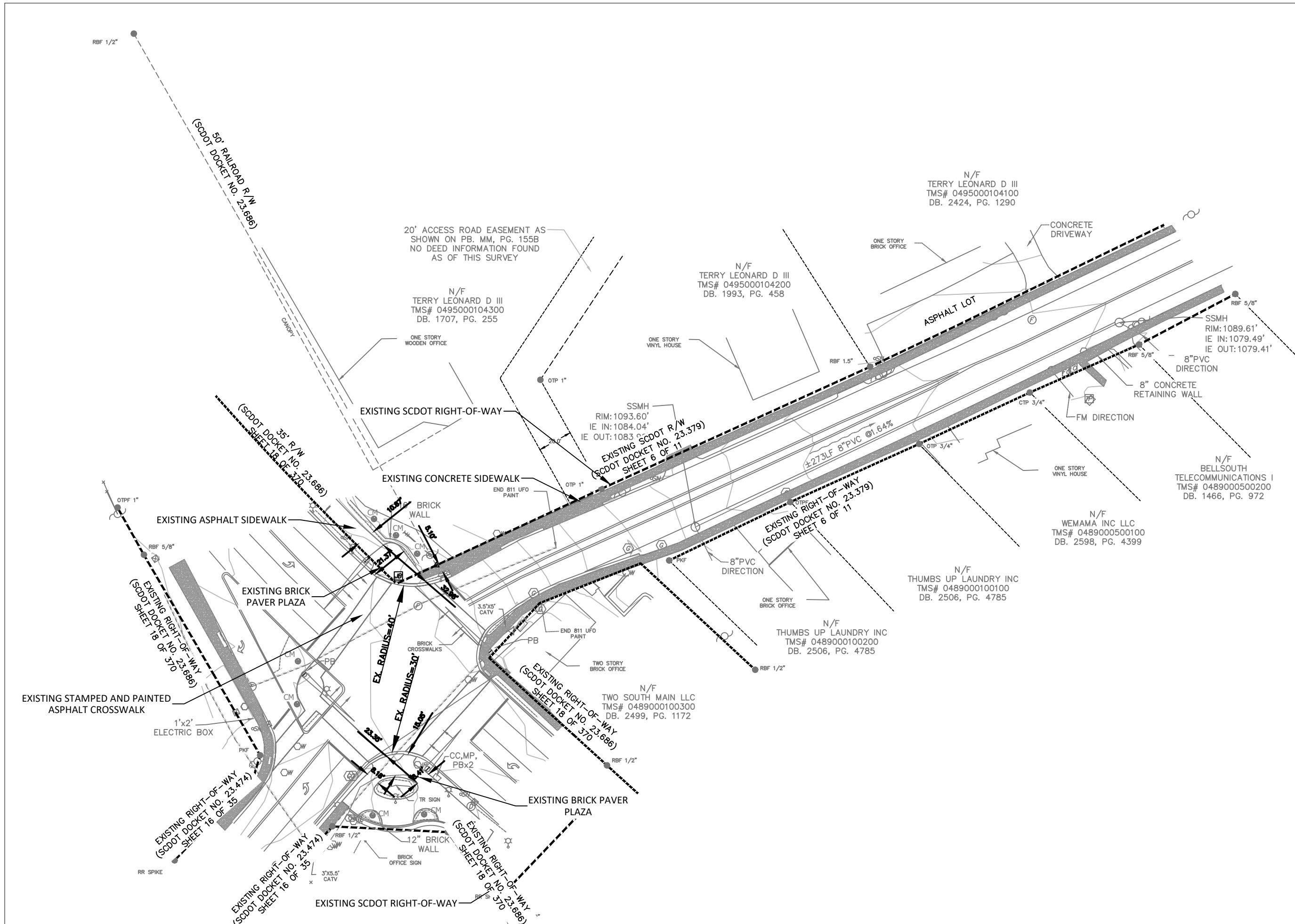
TOLERANCES--UNLESS NOTED
FRACTIONAL: $\pm 1/16"$ DECIMAL: $\pm 0.010"$ ANGLE: $\pm 0.1"$
THIS DRAWING IN DESIGN AND DETAIL IS THE PROPERTY OF VULCAN MATERIALS COMPANY AND MUST BE RETURNED UPON DEMAND. THIS DRAWING MUST NOT BE COPIED, REPRODUCED, OR USED WITHOUT PERMISSION.



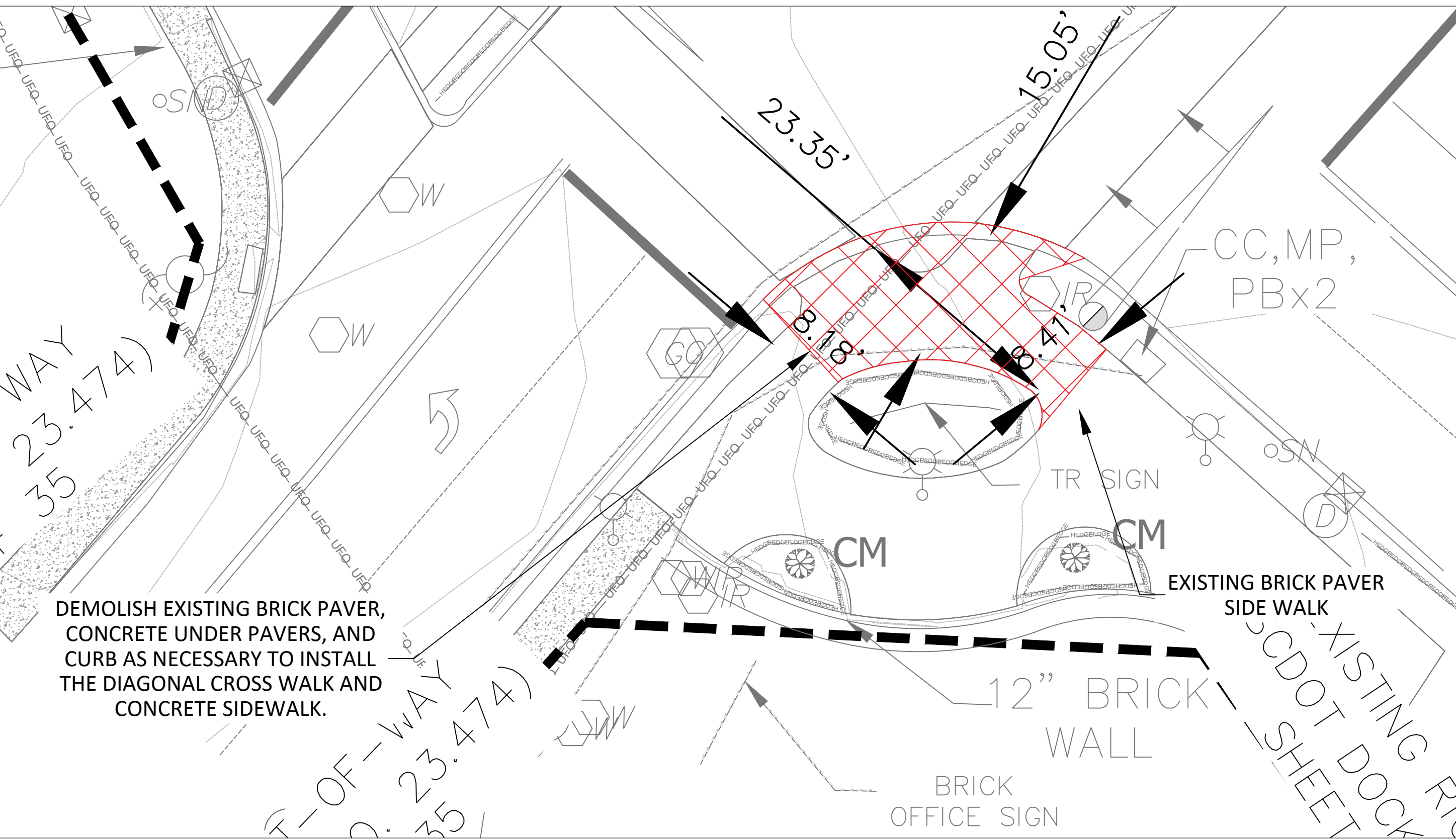
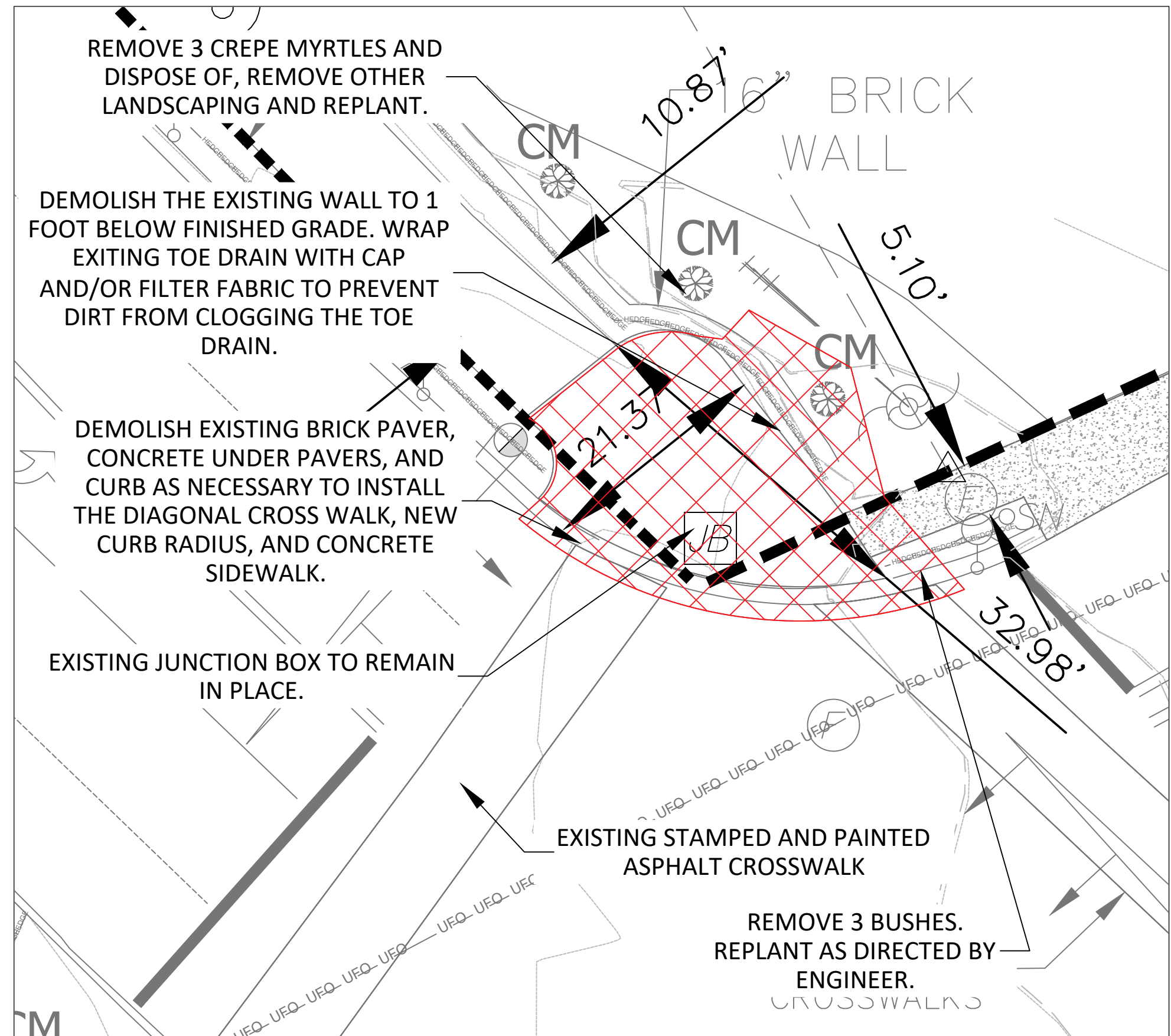
CITY OF TRAVELERS REST
125 TRAILBLAZER DRIVE
TRAVELERS REST, SC 29690
PHONE 864-834-8740

DIAGONAL CROSSING AND
SIGNAL MODIFICATIONS
COVER SHEET

DESIGN	PLANT
BY: T. COLTON DATE: 10/18/2021 DWG. NO.	N/A PROJ. NO. 1454.01.02 SCALE N.T.S. SHEET 1 OF 13 REV. D

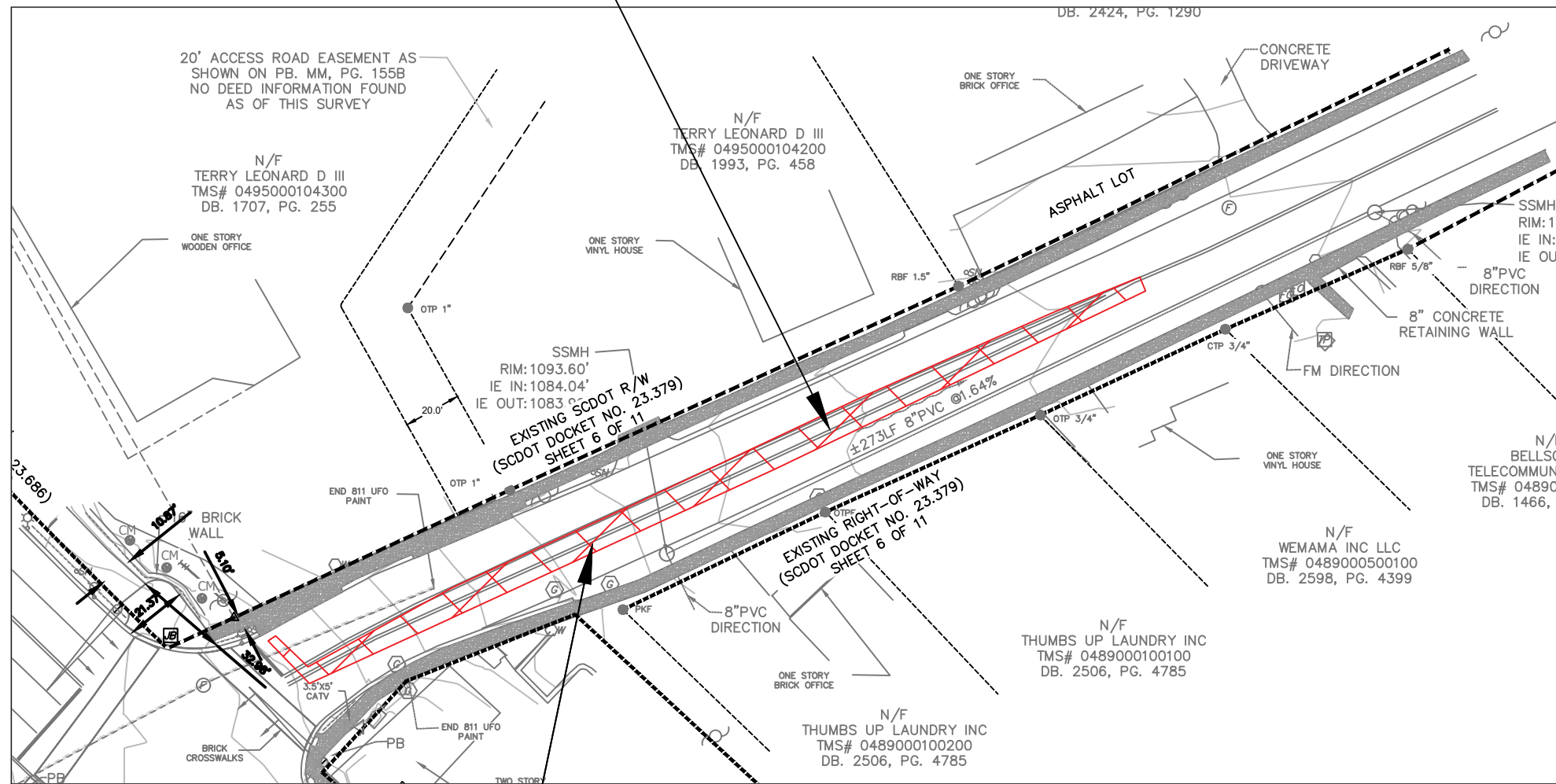


- LEGEND**
- CM CRAPE MYRTLE
 - JB JUNCTION BOX
 - IRRIGATION METER
 - SN SIGN
 - STORM DRAIN MANHOLE
 - W WATER METER
 - CC CONTROL CABINET
 - MP METER PEDESTAL
 - PB PULL BOX
 - DEMOLITION
 - SIDEWALK
 - SF SILT FENCE
 - LODLIMITS OF DISTURBANCE



DEMOLITION DETAILS
SCALE: 1"=10'

EXISTING PAVEMENT MARKINGS TO BE REMOVED BY SAND BLASTING METHOD OR PRESSURIZED WATER TO SCDOT STANDARDS.



DEMOLITION DETAILS
SCALE: 1"=50'

DEMOLISH EXISTING CENTER LINE PAVEMENT MARKINGS AND STOP BAR TO SCDOT STANDARDS



DATE	REVISION	BY
10/18/2021	FOR AGENCY REVIEW	GTC
09/23/2021	FOR AGENCY REVIEW	GTC
08/10/2021	FOR AGENCY REVIEW	GTC
07/08/2021	FOR AGENCY REVIEW	GTC



CITY OF TRAVELERS REST
125 TRAILBLAZER DRIVE
TRAVELERS REST, SC 29680
PHONE 864-834-8740

**DIAGONAL CROSSING AND
SIGNAL MODIFICATIONS
EXISTING CONDITIONS AND
DEMOLITION**

PRELIMINARY NOT FOR CONSTRUCTION

SYNTERRA CORPORATION
NO. 000823

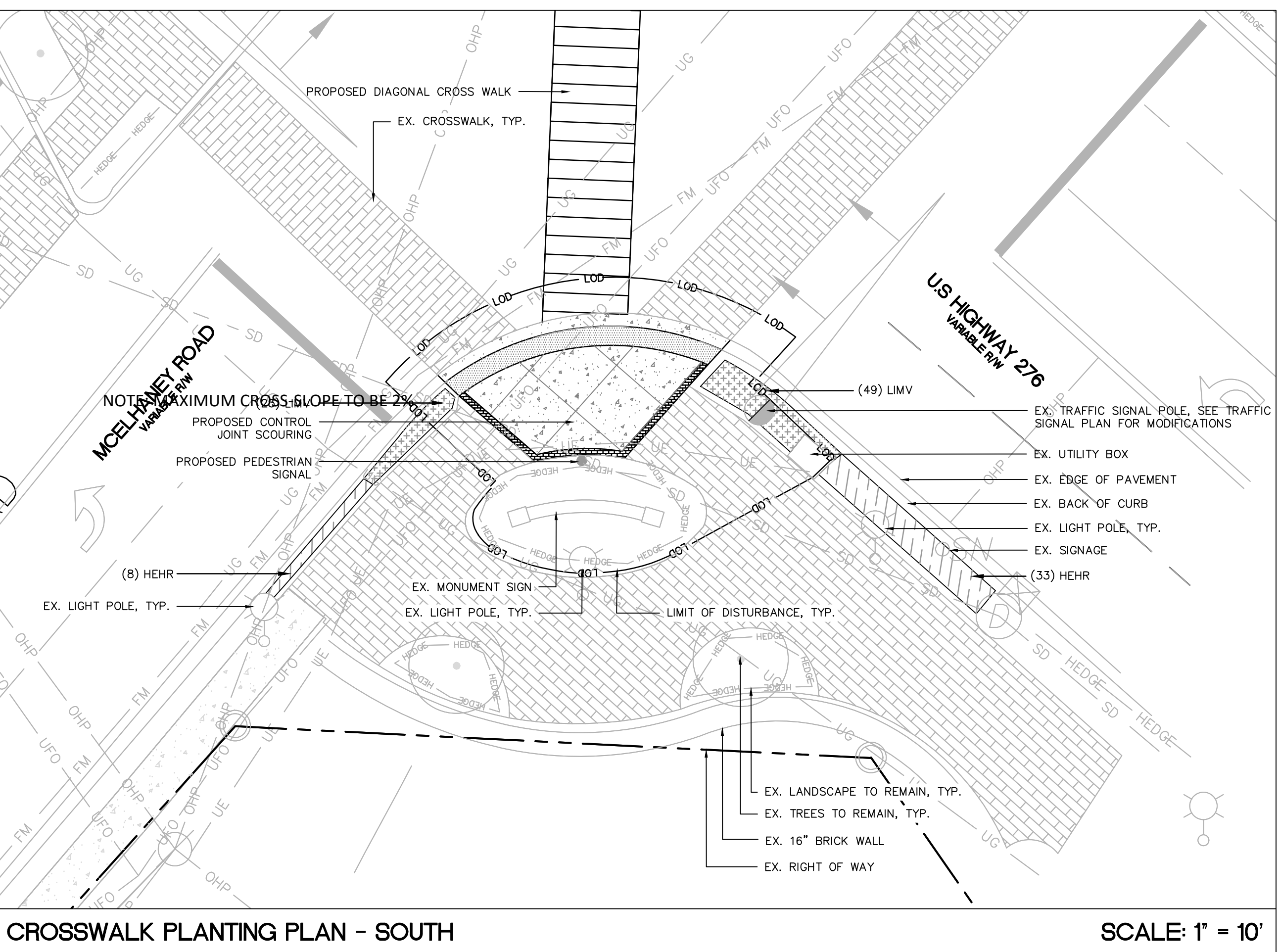
CAUTION

South Carolina 811
Call 811 Before you Dig

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.


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DESIGN	PLANT
N/A	N/A
BY T. COLTON	BY B. GREEN
DATE 10/18/2021	DATE 10/18/2021
SCALE VARIES	SCALE 1454.01.02
SHEET 2 OF 13	SHEET 2 OF 13
C02	D



GRAPHIC SCALE

10 0 5 10 20






(IN FEET)

SCALE: 1" = 10'

South Carolina 811
Call 811 Before you Dig

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NOTE: NO IRRIGATION TO BE INSTALLED IN RIGHT OF WAY

 ColeJenest&Stone BOLTON & MENK, INC. 200 S. Tryon St, Suite 1400 Charlotte, North Carolina 28202 704.376.1555 www.colejeneststone.com	 245 River Street, Suite 220 Greenville, South Carolina 29601 864-421-9990 www.synterrarealty.com	E				TOLERANCES—UNLESS NOTED FRACTIONAL: ± 1/16" DECIMAL: ± 0.010" ANGLE: ± 0.1°	 CITY OF TRAVELERS REST 125 TRAILBLAZER DRIVE TRAVELERS REST, SC 29690 PHONE 864-834-8740	DIAGONAL CROSSING AND SIGNAL MODIFICATIONS PLANTING PLAN	DIVISION N/A		PLANT N/A
		BY PK	BY MG	PROJ. NO. 1454.01.02	FILE NUMBER N/A						
		DATE 08/03/2021	DATE 08/03/2021	SCALE 1" = 10'	SHEET 4 OF 9						
		DWS. NO.			REV. C04				A		
		A	08/03/2021	PROGRESS SET	PK	THIS DRAWING IN DESIGN AND DETAIL IS THE PROPERTY OF VULCAN MATERIALS COMPANY AND MUST BE RETURNED UPON DEMAND. THIS DRAWING MUST NOT BE COPIED, REPRODUCED, OR USED WITHOUT PERMISSION.					
		DATE		REVISION	BY						

NOTES:

1. SEE STANDARD DRAWINGS 720-601-XX FOR GENERAL NOTES.
2. SEE STANDARD DRAWINGS 720-601-XX FOR INSTALLATION PROCEDURES FOR DETECTABLE WARNING SURFACE MATERIALS.
3. SEE STANDARD DRAWINGS 720-929-XX FOR VARIANTS TO THIS STANDARD.

DETAIL 1
SCALE 1/8" = 1'-0"
PLAN
(45° OF CURB RADIUS SHOWN)

SECTION A-A
SCALE 1/4" = 1'-0"
ELEVATION AT RAMP

DETAIL 2
GENERAL VIEW
15'-0" WIDE PARKING SHOULDER
SEE 720-901-02 FOR SYMBOLS

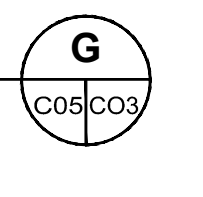
REVISIONS



NO.	DATE	DESCRIPTION
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SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
201 COLUMBIA STREET
ROOM 400
COLUMBIA, SC 29201
(803) 799-3300
WWW.SCDOT.GOV

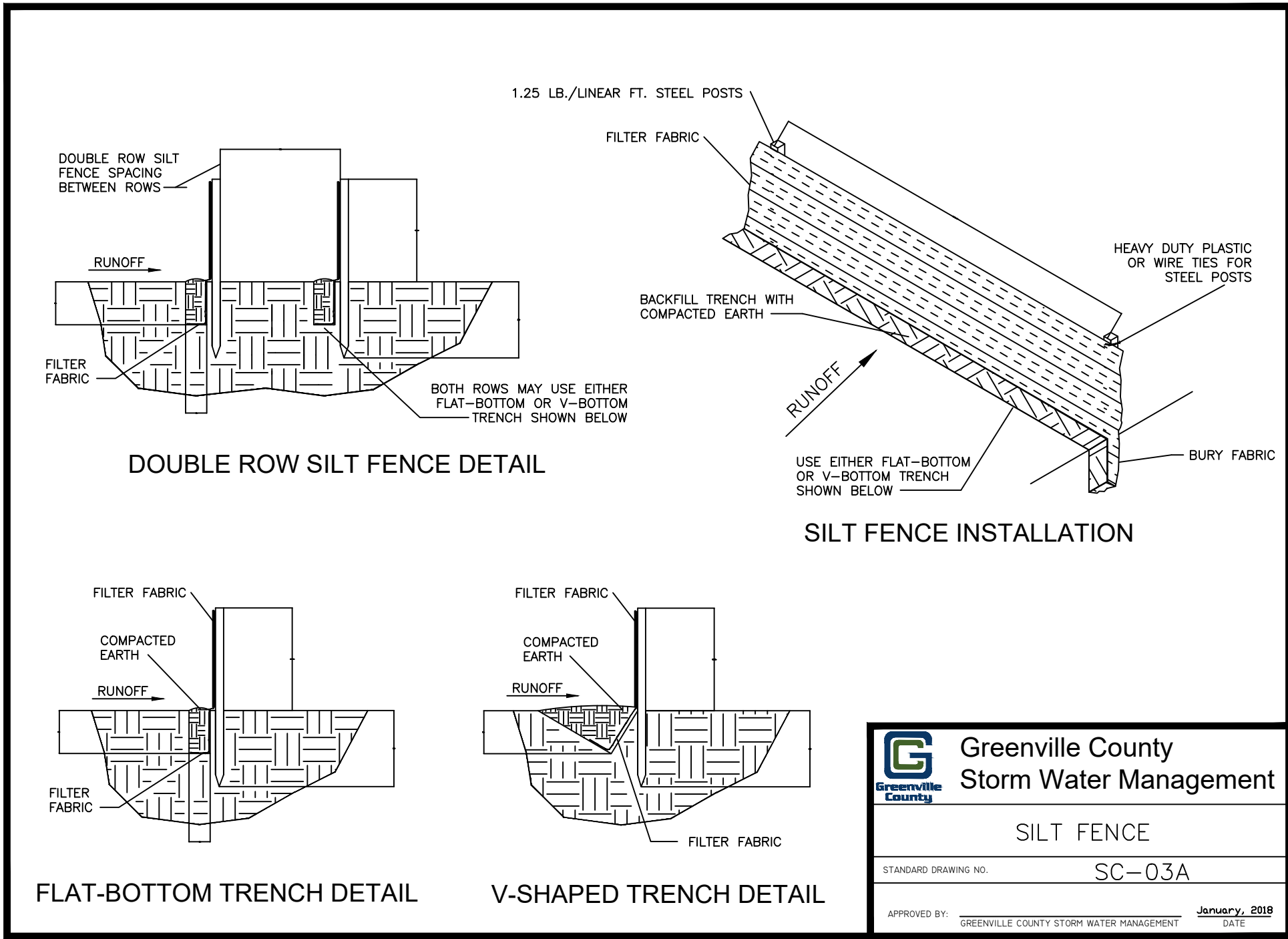
STANDARD DRAWING
PEDESTRIAN RAMP
ON RADIUS
PERPENDICULAR RAMP
CURB RADIUS > 20'-0"

[illegible]

SUPPLEMENTAL SPECIFICATION		SUPPLEMENTAL SPECIFICATION	
<p>July 1, 2020</p> <p>SECTION 627 THERMOPLASTIC PAVEMENT MARKINGS</p> <p>General</p> <p>Delete section 627.4.4 entirely and replace with the following:</p> <p>627.4.4 Application of the Thermoplastic Pavement Marking Material</p> <ol style="list-style-type: none"> 1. Except when directed or approved by the RCE, place all longitudinal markings with a truck-mounted application in conformance with the requirements of Subsection 627.4. Such an exception may occur where the length of a particular marking is too short or the curvature too great to permit efficient use of the truck-mounted line. Transverse markings may be applied with a portable unit. 2. Ensure that the markings are straight or uniform in curvature and conform uniformly to tangents, curves, and transitions. Make certain that symbols are of the dimensions shown in the SC207 Standard Drawings. Ensure that markings are of the dimensions and are placed as shown on the <i>Pavement Marking Plans</i> or as directed by the RCE. Provide sufficient control points to serve as guides for the application of markings at no additional expense to the Department. 3. Ensure that the finished line pavement markings are free from waviness and lateral deviation does not exceed 2 inches in 15 feet. Any greater deviation is sufficient cause for removal and correction of such markings at no additional expense to the Department. Remove and correct symbol pavement markings not meeting the dimensional requirements shown in the SC207 Standard Drawings. Protect the pavement markings until dry by placing guarding or warning devices as necessary. If a vehicle crosses the wet marking, remove the pavement marking and any tracking lines made by the moving vehicle and apply new markings at no additional expense to the Department. 4. Place pavement markings only when the pavement is dry as determined by visual inspection or other approved method and the pavement temperature is 50°F or greater. No work is allowed when any moisture is visible on the pavement surface or pavement is wet. Provide each work crew with a hand-held infrared non-contact thermometer with a temperature range of 0°F to 100°F to verify the minimum surface temperature. Measure pavement temperature away from heat generating equipment. 5. In Districts 2, 3, 4, and 5, do not apply thermoplastic pavement markings between December 15 and March 15 unless approved by the RCE. Additionally, the RCE may disallow applications on any day when the weather is cold and/or rainy and there is some question as to whether the surface temperature will be above 50°F for a period adequate to obtain quality pavement markings. Application may also be disallowed on any dry day when, in the opinion of the RCE, moisture conditions are not satisfactory for obtaining quality pavement markings. 6. Ensure that new asphalt concrete surfaces are in place a minimum of 7 days before application of thermoplastic pavement markings. Remove the curing compound on new Portland cement concrete surfaces before application of pavement markings. 7. Have on hand an adequate number of personnel experienced in the handling and application of this type of material to ensure that the work is done properly. Rent the marking machine only in the direction of normal traffic flow during marking operations. 8. Perform work only during daylight hours unless properly observed. Ensure that all markings are sufficiently dry before subject to permit crossing by traffic. Remove all protective devices before sunset to allow free movement of traffic at night. 9. Apply the thermoplastic pavement marking material at a temperature between 390°F and 420°F that provides the best adhesion to the pavement as recommended by the manufacturer. Heat the material uniformly throughout, and ensure that it has a uniform disbursement of binder, pigment, and glass beads when applied to the surface of the pavement. 	<p>APPROVED:</p> <p>Division Administrator</p> <p>THADDEUS W. KITOWICZ <small>(Seal Imprint)</small></p> <p>By: KITOWICZ <small>(Signature)</small></p> <p>FEDERAL HIGHWAY ADMINISTRATION</p>	<p>10. Apply extruded lines 12 inches or less in width with a die that equals the width of the line. Extruded lines greater than 12 inches may be applied with two dies whose combined width is equal to the width of the line.</p>	
<p>SECTION</p> <p>N.T.S.</p>		<p>THERMOPLASTIC MARKING DETAIL</p> 	
SC File No.	Page 1 of 2	SC File No.	Page 2 of 2

 synterra 158 River Street, Suite 220 Greenville, South Carolina 29601 864-421-9999 www.synterraenergy.com	E				TOLERANCES—UNLESS NOTED	 Travelers Rest
	D	10/18/2021	FOR AGENCY REVIEW	GTC	FRACTIONAL: DECIMAL: ANGLE: ± 1/16" ± 0.010" ± 0.1°	
	C	09/23/2021	FOR AGENCY REVIEW	GTC		
	B	08/10/2021	FOR AGENCY REVIEW	GTC	THIS DRAWING IN DESIGN AND DETAIL IS THE PROPERTY OF VULCAN MATERIALS COMPANY AND MUST BE RETURNED UPON DEMAND. THIS DRAWING MUST NOT BE COPIED, REPRODUCED, OR USED WITHOUT PERMISSION.	
	A	07/08/2021	FOR AGENCY REVIEW	GTC		
		DATE	REVISION	BY		

CITY OF TRAVELERS REST 125 TRAILBLAZER DRIVE TRAVELERS REST, SC 29690 PHONE 864-634-9740	<h1>DIAGONAL CROSSING AND SIGNAL MODIFICATIONS</h1>				DIVISION N/A		PLANT N/A	
	BY T. COLTON		BY B. GREEN		PROJ. NO. 1454.01.02		FILE SERVER N/A	
	DATE 10/18/2021		DATE 10/18/2021		SCALE N.T.S.		SHEET 5 OF 13	
	SITE PLAN DETAILS				DWG. NO.		C05	
								REV. D

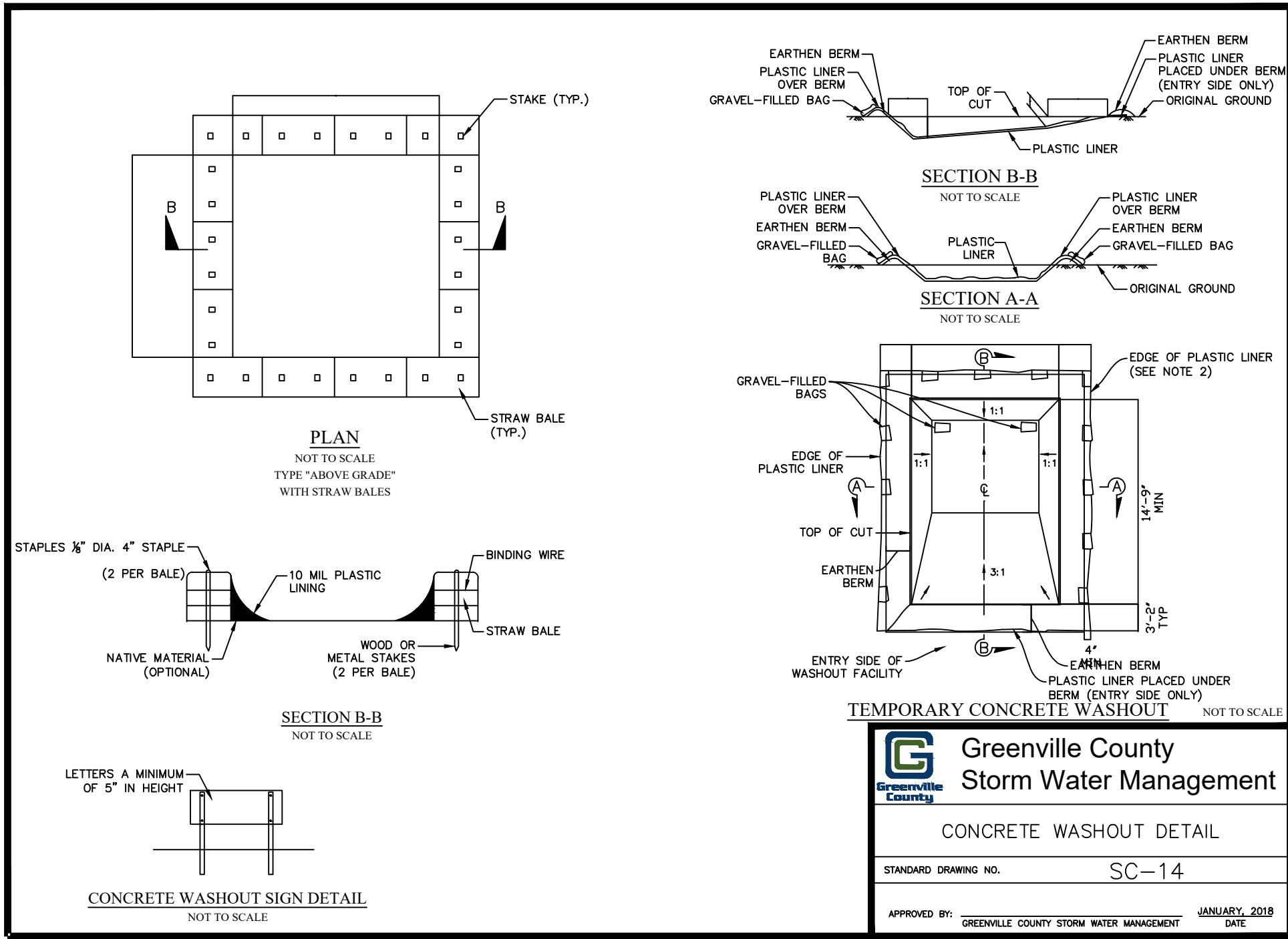


SILT FENCE DETAIL

SECTION A

N.T.S.

C06/C03

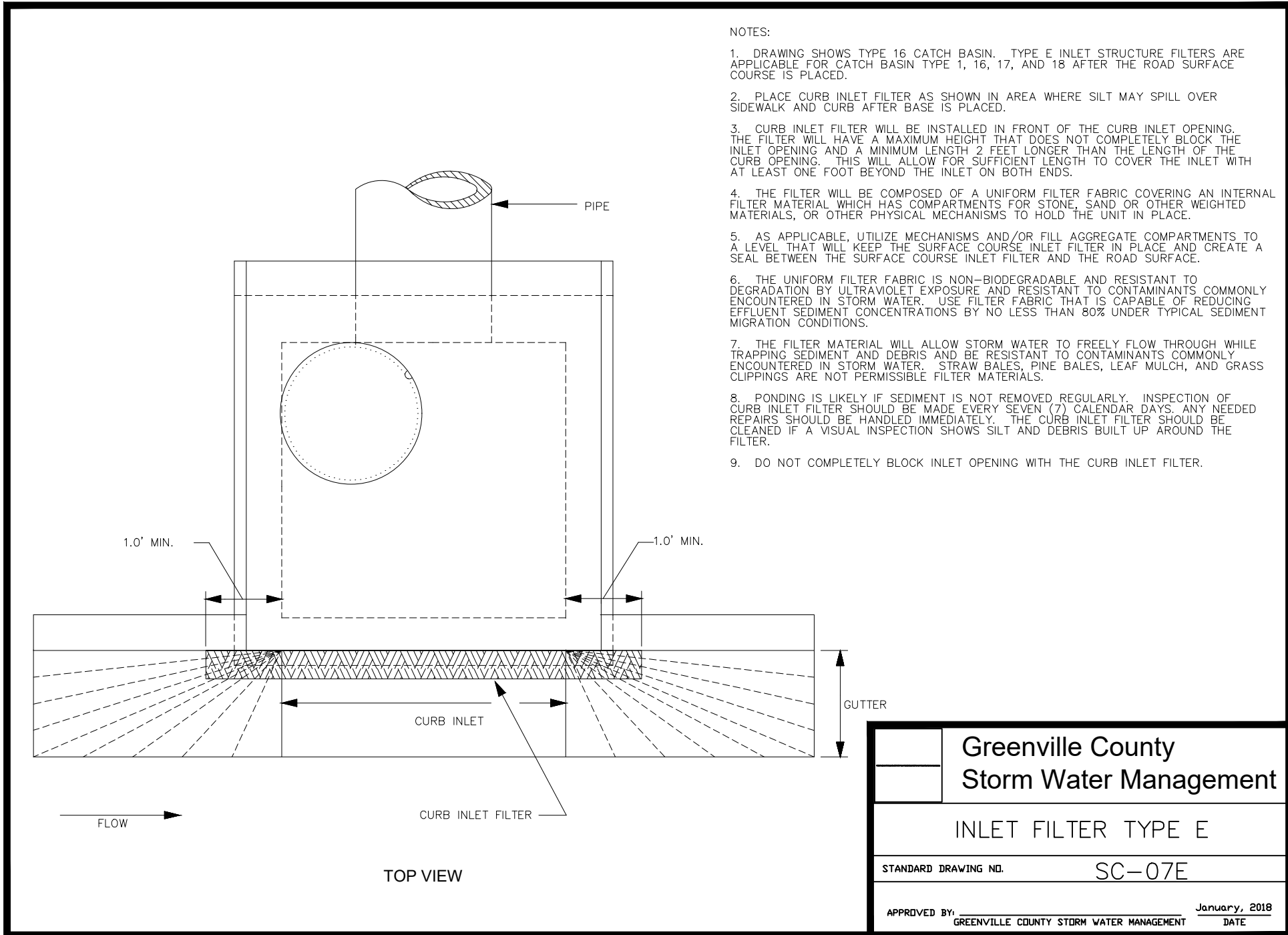


CONCRETE WASHOUT DETAIL

SECTION C

N.T.S.

C06/C03



INLET PROTECTION DETAIL

SECTION B

N.T.S.

C06/C03

NOTES:

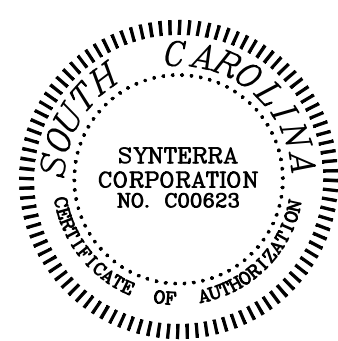
PLEASE REFER TO GREENVILLE COUNTY TECHNICAL SPECIFICATION EC-03: SEEDING & STABILIZATION FOR MORE DETAILS IN STABILIZATION, SEEDING, SEEDING AMENDMENTS, EROSION PREVENTION PRACTICES, SEEDING CONSTRUCTION REQUIREMENTS, SOD, PERMANENT GROUND COVER PLANTS, INSPECTION AND MAINTAINCE, AND DEAILED SEEDING TABLES.

MONTH	WORK DESCRIPTION
1, 2-4, 5	Install sediment control devices.
	Demo existing brick pavers and curb.
	Begin construction. Establish vegetation.
	Remove temporary sediment control devices.
	Final inspection with agency.

SCDHEC STANDARD NOTES

- If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydrosseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
- Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
 - Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
 - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.
- All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
- Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
- All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.
- Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
- All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
- Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
- A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
- Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
Standard NotesFebruary 2017
- Minimize soil compaction and, unless infeasible, preserve topsoil.
- Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
- The following discharges from sites are prohibited:
 - Wastewater from washout of concrete, unless managed by an appropriate control;
 - Wastewater from washout and cleanup of stucco, paint, form release oils, curing compounds and other construction materials;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
 - Soaps or solvents used in vehicle and equipment washing.
- After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
- If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.
- A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

PRELIMINARY NOT FOR CONSTRUCTION



CAUTION



THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



E	DATE	REVISION	BY
D	10/18/2021	FOR AGENCY REVIEW	GTC
C	09/23/2021	FOR AGENCY REVIEW	GTC
B	08/10/2021	FOR AGENCY REVIEW	GTC
A	07/08/2021	FOR AGENCY REVIEW	GTC

TOLERANCES--UNLESS NOTED
FRACTIONAL: $\pm 1/16"$
DECIMAL: $\pm 0.010"$
ANGLE: $\pm 0.1^\circ$
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CITY OF TRAVELERS REST
125 TRAILBLAZER DRIVE
TRAVELERS REST, SC 29690
PHONE 864-634-8740

DIAGONAL CROSSING AND
SIGNAL MODIFICATIONS
E&SC DETAILS

DIVISION	PLANT
N/A	N/A
BY T. COLTON	BY B. GREEN
PROJ. NO. 1454.01.02	FILE SERVER N/A
DATE 10/18/2021	DATE 10/18/2021
SCALE N.T.S.	SHEET 6 OF 13
DWG. NO.	REV.
C06	D

[illegible]

- Materials used to construct temporary concrete washout facilities shall be removed from the site of the work.
- Holes, depressions, or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled and stabilized.

Greenville County Technical Specification for:

SC-03 Curb Finish

1.0	Sill Fence
1.1	Description
Sill Fence is used as a temporary sediment control measure around sites where there will be excavation or construction activities. Sill Fence consists of five fabric embedded around the site. The lower edge of the fabric is vertically trenched into the ground and covered by compacted backfill. Sill Fence is installed in the other embedded side with reinforcement or with reinforcement.	
1.2	Design Requirements
1.2.1	General Design Requirements
<ul style="list-style-type: none">Design Sill Fence with a 90% design removal efficiency of the total suspended solids (TSS) in the inflow.Do not use Sill Fence for concentrated flows greater than 0.5 cfs.Do not place Sill Fence across creeks.Do not use Sill Fence as Porous Barrier in Surface Basins or Sediment Traps.The Design Aired Inflow in Figure 8-17 in Appendix K may be used to properly design Sill Fence.	
Ensure the Sill Fence designs allow for the following requirements:	
<ul style="list-style-type: none">Minimum 90% design removal efficiency for TSSMaximum Sheet Pile or Overland Slope Length: 100 feetMaximum Slope Design (perpendicular to the Sill Fence line): 2H:1VMinimum Installed Fabric Height: 18 inchesMinimum Installed Fabric Height: 24 inchesMaximum Post Bury Depth: 18 inchesMaximum Non-reinforced Post and Reinforced Fence Post Spacing: 6 feet	

1.2.2 Specific Design Requirements

Use **standard non-reinforced Silt Fence** when the contributing slope is less than or equal to 3% and the design life of the Silt Fence is less than 6 months.

Use **reinforced Silt Fence** when the contributing slope is greater than 3% (regardless of design life) or the design life of the Silt Fence is greater than 6 months (regardless of contributing slope).

When a double row of Silt Fence is called for on the Plans, the two rows shall have a minimum spacing of 3 feet and a maximum spacing of 5 feet.

The allowable Silt Fence land slope to allowable flow length ratio is shown in Table 1.

Table 2.1: 8ft Fence Land Slope to Flow Length Ratio

Land Slope	Maximum Steel Flow Slope Distance to Fence
3% - 5%	100 ft.
6% - 10%	50 ft.
10% - 20%	60 ft.
20% - 50%	25 ft.

1.3 Materials

Provide material for Silt Fence complying with the requirements of this Specification, on the Plans and details, or as approved by the Engineer.

1.3.1 Non-reinforced Silt Fence

The non-reinforced Silt Fence system is composed of geotextile filter fabric and steel posts.

1.3.1.1 Steel Posts

Partial steel posts meeting the following minimum physical requirements:

- Minimum length of 4 feet.
- Composed of high strength steel with minimum yield strength of 50,000 psi.
- Standard "T" section with a nominal face width of 1.38 inches and nominal "T" length of 4.18 inches.
- Weights 2.50 to 2.60 per foot.
- Painted with a water based black enamel.

1.3.1.2 Geotextile Filter Fabric

Provide a geotextile filter fabric meeting the requirements of Table 2.

Ensure the filter fabric is composed of fibers consisting of long chain synthetic polymers composed of at least 90% by weight of polyethylene, polypropylene, or polyethylene. Ensure that the fibers are formed into a network so that the filaments or yarn remain discontinuously relative to each other. Do not test for tensile strength. The filter fabric must be made of a material that is not susceptible to degradation. Do not use fabric with defects or flaws that significantly affect the physical and/or filtering properties.

Provide a filter fabric with a minimum roll width of 36 inches.

Protect the filter fabric with a suitable wrapping for protection against moisture and external ultraviolet radiation.

Table 2. Minimum Geotextile Filter Fabric Performance and Physical Requirements

Physical Property*	Test Method	Required Value
Filtration Efficiency/Permeability*	ASTM D 4852 or equivalent	90% Total Suspended Solids (TSS)
Tensile Strength	ASTM D 4852	90 lbs
Ultimate Tensile Strength	ASTM D 4855	700 lbs

*Minimum strength after 500 hrs of ultraviolet exposure

†When otherwise indicated, material shall conform to the SCAQV.

1.3.2 Reinforced Silt Fence

The reinforced Silt Fence system is composed of steel or other approved posts, geotextile filter fabric and 6-inches by 12-inches 14-gauge wire mesh. Use steel posts and geotextile materials specified in Section 1.3.1.

1.6.1 Construction Requirements

1.6.1.1 General Installation

Consent SHI Fence is accordance with the Plans or as approved by the Engineer. Install SHI Fence between major land draining structures and/or other structures.

Install SHI Fence across the slope along a line of uniform elevation (perpendicular to the direction of flow).

Install SHI Fence a minimum 100 ft from the toe of any steep slopes to provide sediment control and access for maintenance.

Do not place SHI Fence across ditches.

In areas where conditions warrant, larger posts or reduced spacing may be required to provide an adequate fence to handle the excess sediment load.

When applicable or as directed by the Engineer, Install SHI Fence checks every 100 feet for a maximum and a minimum of 100 ft.

1.6.1.2 Non-Flowing Slopes

- Excavate a trench approximately 4 inches wide and 8 inches deep and place 12 inches of geotextile fabric into the 8-inch deep trench, extending 4 inches towards the upslope side of the trench.
- Place 12 inches of SHI Fence across the trench with the fence perpendicular to the direction of flow.
- Bury 12 inches of fabric into the ground when pneumatically installing SHI Fence with a silt fence machine.
- Place geotextile fabric in continuous rows and cut to the length of the barrier to avoid joints. When joints are necessary, wrap the fabric together with a support web with both ends folded to the post, with a 6 inch overlap.
- On the downslope side of the trench, install steel posts to a minimum depth of 18 inches. Install post pretreated 1 to 2 inches minimum above the soil, with no more than 3 feet of the post protruding above the ground.
- Space posts on a maximum of 6-foot center.
- Place a plastic or woven polypropylene plastic or wire mesh on the upslope side of the fence in a manner to prevent sagging or tearing of the fabric. In all cases, affix this net to evenly graded and placed in a trench 6 inches deep and 4 inches wide.
- Install the fabric to a minimum height of 18 inches and maximum of 24 inches above the ground. When necessary, the height of the fence above ground may be greater than 24 inches.

1.6.1.3 Reinforced SHI Fence Installation

- Excavate a trench approximately 4 inches wide and 8 inches deep and place 12 inches of geotextile fabric into the 8-inch deep trench, extending 4 inches towards the upslope side of the trench.
- Extend the 6-inch by 6-inch 14-gage wire mesh into the trench to a minimum depth of 18 inches.
- Backfill the trench with soil or gravel and compact.
- Place geotextile fabric and wire mesh in continuous rows and cut to the length of the barrier to avoid joints. When joints are necessary, wrap the fabric together with a support web with both ends folded to the post, with a 6 inch overlap.
- On the downslope side of the trench, install steel posts to a minimum depth of 18 inches. Install post pretreated 1 to 2 inches minimum above the soil, with no more than 3 feet of the post protruding above the ground.

6. Space posts on a maximum of six-foot centers.

7. Attach fabric and wire mesh to the steel posts using heavy-duty plastic or wire that are even spaced and placed in a manner to prevent sagging or tearing of the fabric and mesh. In all cases, the fabric and wire mesh shall be placed such that the fabric is at least 12 inches above the ground.

8. Install the fabric and wire mesh spacing to a minimum height of 15 inches and maximum of 24 inches above the ground. When necessary, the height of the fence above ground may be greater than 24 inches.

4.1 Double Row Still Fence

When double row Still Fence is specified on the Plans, the same design, material, and construction requirements are applicable. Double row Still Fence shall have a minimum spacing of 3 feet and maximum spacing of 7.5 feet between the two rows.

4.1.5 Inspection and Maintenance

Inspect Still Fence every seven (7) days and inspections are recommended within 24-hours after each rainfall event that produces 1/4-inch or more of precipitation until final stabilization is achieved. Immediately correct any deficiencies. Check for sediment buildup and fence integrity. Check where rainwater has caused a channel beneath the Still Fence, and where the Still Fence has sagged or collapsed by fence overtopping.

Remove fabric and replace whenever it has deteriorated to such extent that it reduces the effectiveness of the Still Fence system. In addition, remove Still Fence daily from areas where construction activities have collapsed the natural contour and drainage runoff to ensure that the Still Fence is properly installed and effective. Install additional Still Fence as directed by the Engineer where deficiencies exist.

Maintain Still Fence until its capacity has been reached or erosion activity in the area has been stabilized. Remove sediment accumulated along the fence when it reaches approximately one-third (1/3) the height of the Still Fence, especially if Still Fence rows are exposed. Remove trapped sediment or stabilize on site.

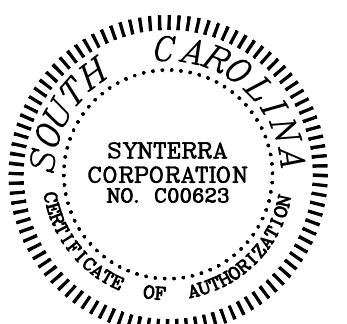
If Still Fence is located in an area where removing the sediment is not possible, install a second Still Fence if necessary, at the direction of the Engineer.

Remove Still Fence within 30 days after final stabilization is achieved or after temporary Best Management Practices (BMPs) are no longer needed. Permanently installed disturbed areas resulting from Still Fence removal.

4.1.6 Acceptance

The Engineer will approve all Still Fence installations.

PRELIMINARY NOT FOR CONSTRUCTION



CAUTION




A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY

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N/A			PLANT N/A	
T. COLTON	BY	B. GREEN	PROJ. NO. 1454.01.02	FILE SERVER N/A
10/18/2021	DATE	10/18/2021	SCALE N.T.S.	SHEET 7 OF 7

C07

D

 148 River Street, Suite 220 Greenville, South Carolina 29601 864-421-9995 www.synterra.com	E				TOLERANCES—UNLESS NOTED
	D	10/18/2021	FOR AGENCY REVIEW	GTC	FRACTIONAL: ± 1/16" DECIMAL: ± 0.010" ANGLE: ± 1°
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CITY OF TRAVELERS REST
125 TRAILBLAZER DRIVE
TRAVELERS REST, SC 29690
PHONE 864-834-8740

DIAGONAL CROSSING AND SIGNAL MODIFICATIONS E&SC DETAILS

N/A		PLANT	
N/A		N/A	
T. COLTON	BY B. GREEN	PROJ. NO. 1454.01.02	FILE SERVER N/A
E 10/18/2021	DATE 10/18/2021	SCALE N.T.S.	SHEET 7 OF 7

—SIGNAL EQUIPMENT—

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND POLE BASE MOUNTED 336S (332A) CABINET. EXT. ☐ PROP. ☐

6 MODEL 222, (2)-CHANNEL VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. ☐ PROP. ☐ W/ACT. & SIGN

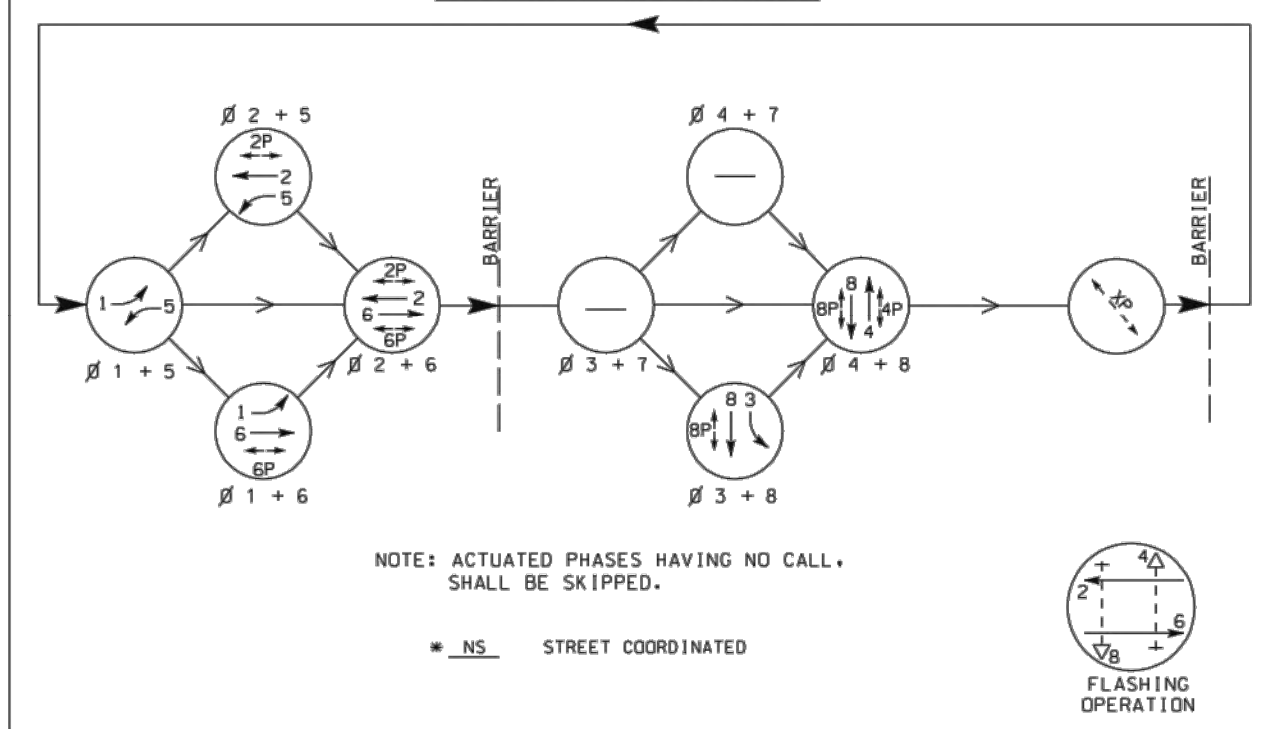
VEHICLE SIGNALS: EXT. ☐ PROP. ☐

DETECTORS: EXT. ☐ PROP. ☐ *NEW

SIGNAL NUMBER	1,6	2	3,8	4	5,2	6	8	2P	4P	6P	8P	XP
LENS												
PHASE	1,6	2	3,8	4	5,2	6	8	2P	4P	6P	8P	XP
SIZE	12"	12"	12"	12"	12"	12"	12"	16"	16"	16"	16"	16"
QUANTITY	1	1	1	1	1	1	1	2	2	2	2	2

EXISTING MAST ARM POLES:
SIGNAL HEADS TO BE LED WITH BACKPLATES AND RETROREFLECTIVE BORDERS
PED HEADS TO BE COUNT DOWN

NEMA PHASING



SIGNAL DISPLAY SEQUENCE
(PREFERENTIAL PHASING)

F	S	SIGNAL HEAD NUMBER	01				05				02				06				04				08				EXP			
			R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP				
Y		1.6	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP	R	W	BARR	EXP				
Y		2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
Y		3.8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
R		4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
Y		5.2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
Y		6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
R		8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
		2P	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
		4P	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
		6P	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
		8P	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
		XP	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				



1. SIZE AND GRADING STANDARDS OF PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK", BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, INC.
2. HEIGHT AND WIDTH SPECIFICATIONS INDICATED ON PLANT SCHEDULE SHALL TAKE PRECEDENCE OVER CONTAINER SIZE AND CALIPER.
3. ALL ANNUAL/PERENNIAL BEDS SHALL BE AMENDED BY THE CONTRACTOR PER THE SPECIFICATIONS AND RAISED 8" ABOVE EXISTING PROPOSED FINISH GRADE. CONTRACTOR SHALL PROVIDE TOPSOIL AS REQUIRED TO RAISE GRADES.
4. CONTRACTOR SHALL MULCH ALL SHRUB BEDS WITH 3" AGED SHREDDED HARDWOOD BARK. CONTRACTOR SHALL MULCH ALL ANNUAL/PERENNIAL BEDS WITH 1" PINE BARK FINES.
5. CONTRACTOR SHALL RESEED/RESOD LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.
6. ALL DISTURBED AREAS NOT INDICATED TO RECEIVE SOD OR MULCH SHALL BE SEEDED BY THE CONTRACTOR.
7. CONTRACTOR SHALL REMOVE ALL HARD LUMPS OF CLAY, STONES OVER 1" IN DIAMETER, AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL TO THE PROPOSED ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND PLANTING AREAS.
8. IN AREAS WHERE CONSTRUCTION GRAVEL IS EMBEDDED IN THE SOIL, CONTRACTOR SHALL REMOVE CONTAMINATED SOIL TO A DEPTH OF 8" AND REPLACE WITH CLEAN TOPSOIL TO THE PROPOSED FINISH TOPSOIL AT NO CHARGE TO OWNER IF REQUIRED TO FILL THESE EXCAVATIONS.
9. CONTRACTOR SHALL COORDINATE ALL PLANTING IN THE RIGHT-OF-WAY WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION OR LOCAL TRANSPORTATION DEPARTMENT.
10. ALL STRAPPING AND TOP 1/3 OF WIRE BASKET SHALL BE CUT AWAY AND REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE TOP 1/3 OF THE BURLAP FROM ROOT BALL.
11. LARGE MATURING TREES SHALL BE A MINIMUM 25 TO 30 FEET FROM ANY UTILITIES OR DISTRIBUTION TRANSMISSION LINES. IF TREES DO CONFLICT WITH POWER LINES OR SIGNS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
12. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT AND OR PROJECT ENGINEER IF ANY OF THE SPECIFIED PLANT MATERIAL LOCATIONS CONFLICT WITH PROPOSED IMPROVEMENTS.
13. INSTALLER SHALL BE RESPONSIBLE TO REPAIR OR REPLACE PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD (ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER).
14. STREETSCAPE DOES NOT INCLUDE EXISTING OR PROPOSED IRRIGATION. INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING WATERING SERVICE FOR THE INITIAL GROWING PERIOD.
15. FOR SEEDED AREAS, AN ACCEPTABLE LAWN AT THE END OF THE MAINTENANCE PERIOD SHALL CONSIST OF A HEALTHY, UNIFORM, CLOSE STAND OF GRASS, FREE OF WEEDS AND SURFACE CRACKS. GRASS SHALL BE 90% COVERED WITH GRASSIES, WITH 10% COVERED WITH WEEDS. GRASS SHALL BE 90 PERCENT OVER ANY 10 TO 50 FT. AND BARE SPOTS NOT EXCEEDING 5 BY 6 INCHES, WITH 95% COVERED WITH GRASS. TOTAL GRASS COVERAGE SHALL BE 90% OF THE SPECIFIED GRASS SPECIES.

1. PLANTING MIX SHALL BE NATURAL, FERTILE, AGRICULTURAL TOPSOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT MAY BE DEVELOPED BY AMENDING THE EXISTING SOIL OR REMOVING THE EXISTING SOIL AND REPLACING WITH NEW SOIL. IT SHALL BE OF UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND OTHER EXTRANEANUS MATTER. PLANTING MIX SHALL NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. THE PLANTING MIX SHALL CONTAIN THE FOLLOWING SPECIFIED PERCENTAGES OF CONSTITUENTS:

CLAY - MINIMUM 10% / MAXIMUM 30% CLAY (RED CLAY, WELL PLUMBERIZED);
CLAY SHALL BE STERILE



SILT - MINIMUM 30% / MAXIMUM 50%

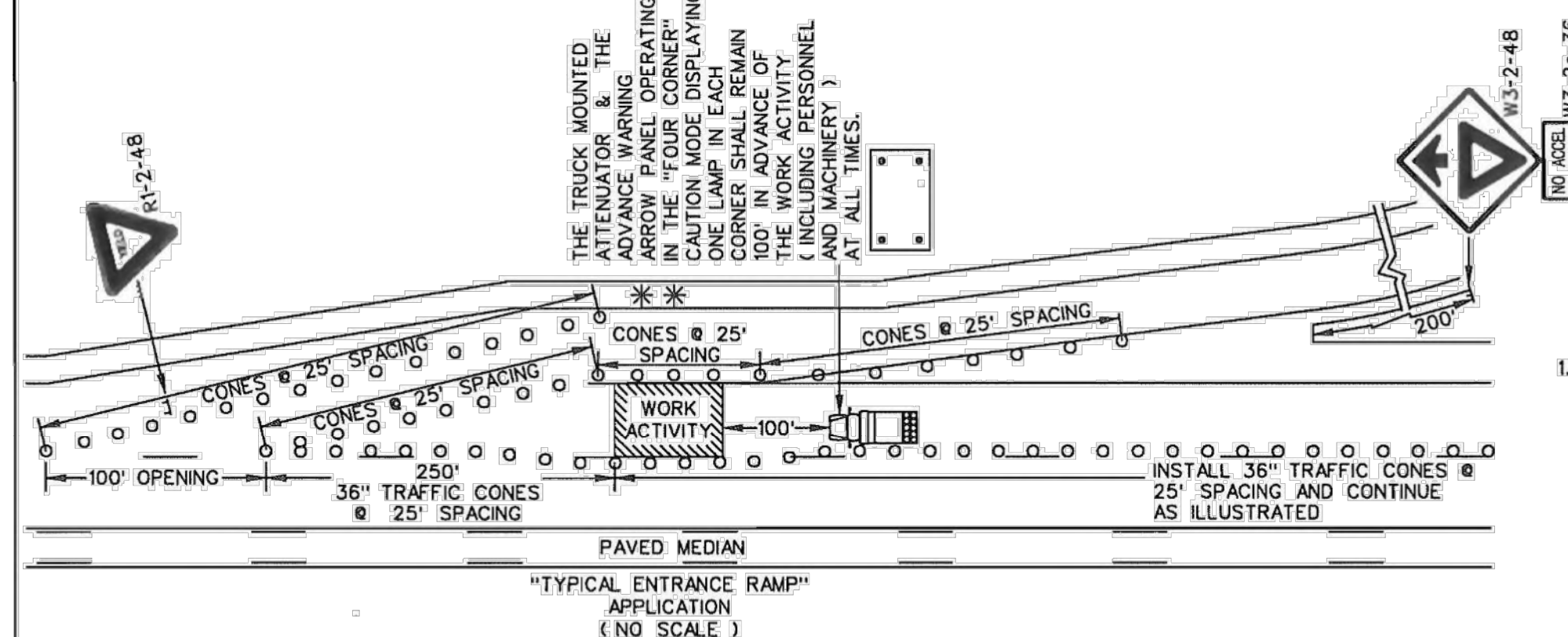
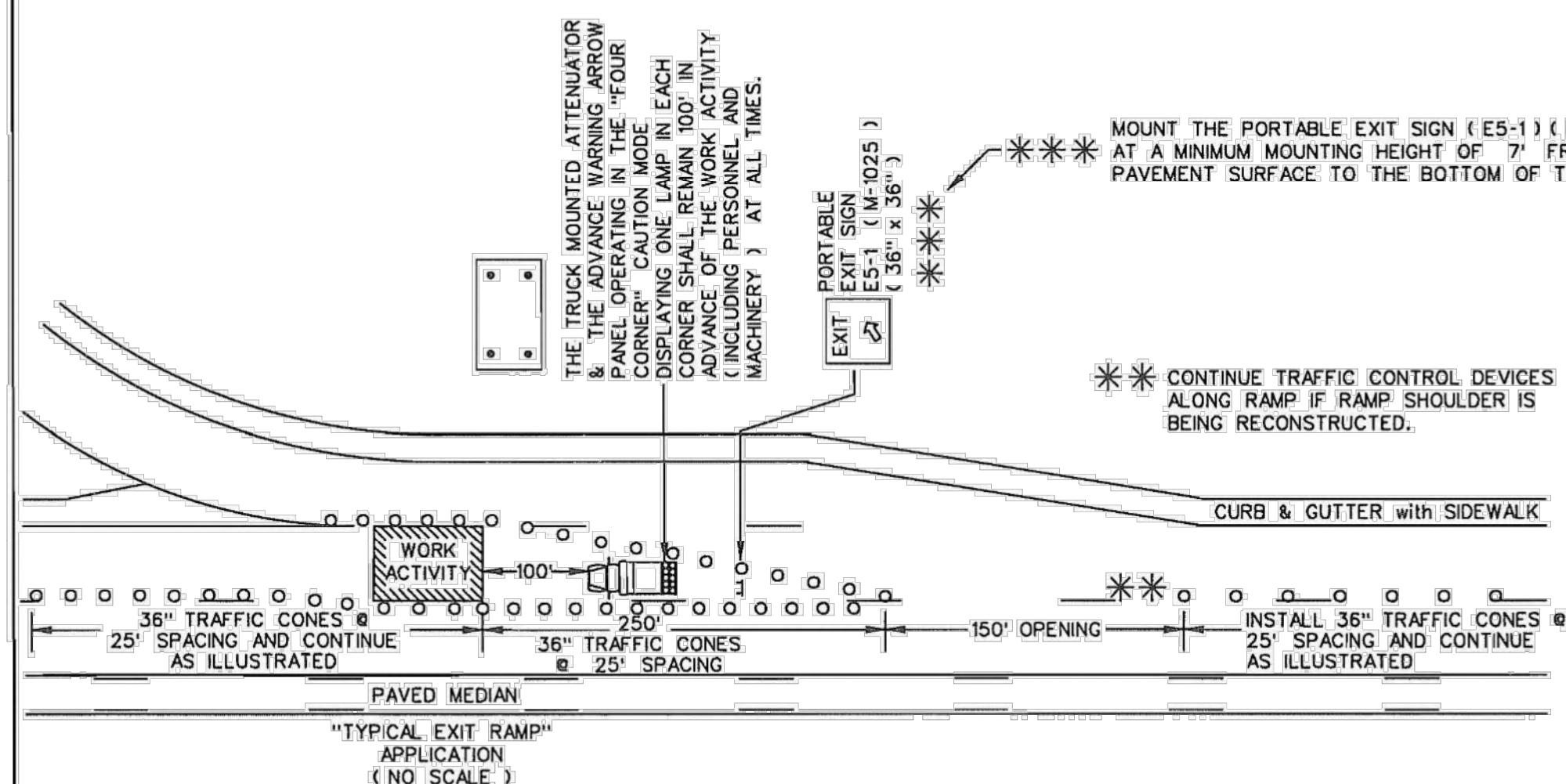
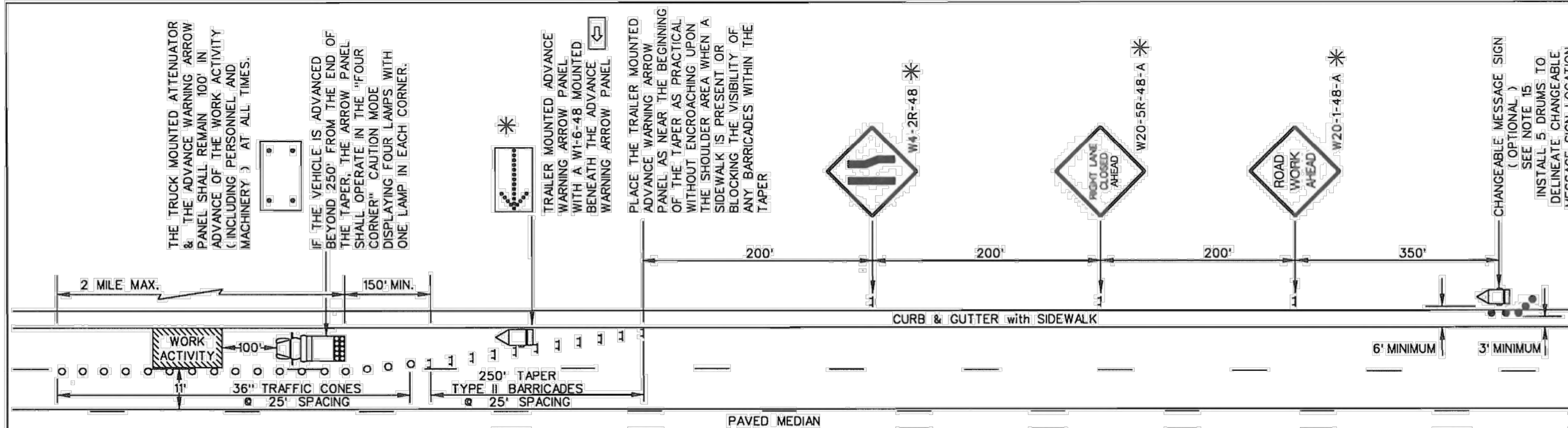
COARSE SAND - MINIMUM 30% / MAXIMUM 45% COARSE SAND AND FREE OF ROCK, 1.0mm TO 0.5mm IN DIAMETER.

ORGANIC MATERIAL - MINIMUM 5% ORGANIC MATERIAL IS DEFINED AS COMPOST/ HUMUS SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE DECOMPOSITION PROCESS. PERCENTAGE OF ORGANIC MATERIAL SHALL BE DETERMINED BY LOSS ON IGNITION, OF MOISTURE FREE SAMPLES DRIED AT 65 DEGREES.

ACTIVITY RANGE - PL 5.5 TO PH 7.0.

ELEMENTS - THE PLANTING MIX SHALL HAVE THE FOLLOWING NUTRIENTS AT THE SPECIFIED PERCENTAGE BASE SATURATION, TO BE DETERMINED BY SOIL TEST REQUIRED BY THE PROJECT: CALCIUM: 5% TO 8%, MAGNESIUM: 10% TO 30%, POTASSIUM: 5% TO 8%

		BOLTON & MENK SOUTHEAST, LLC No. 6475	
<div style="border: 2px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">***CAUTION***</p>  <p style="text-align: center; font-weight: bold; font-size: 1.2em;">South Carolina 811</p> <p style="text-align: center; font-weight: bold; font-size: 0.8em;">Call 811 Before you Dig</p> </div> <p style="text-align: center; margin-top: 10px;">A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.</p>			
<p>THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.</p>			
DIVISION N/A		PLANT N/A	
BY PK DATE 08/03/2021		BY MG DATE 08/03/2021	
CUSNO		PROJ. NO. 1454.01.02	
SCALE N.T.S.		FILE SERVER N/A	
Dwg. NO.		SHEET 9 OF 9	
REV.		A	



ADVANCE WARNING ARROW PANEL

ALL ADVANCE WARNING ARROW PANELS SHALL BE 48" x 96" WITH A MINIMUM LEGIBILITY DISTANCE OF 1 MILE. PLACEMENT OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

WHEN AN ADVANCE WARNING ARROW PANEL IS REQUIRED TO OPERATE IN THE CAUTION MODE, THE ADVANCE WARNING ARROW PANEL SHALL DISPLAY THE "FOUR CORNERS" CAUTION MODE, WITH ONE LAMP IN EACH CORNER. DISPLAY OF ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE SUCH AS THE "FLASHING BAR" OR THE "ALTERNATING DIAMOND" CAUTION MODES ARE UNACCEPTABLE AND PROHIBITED.

LEGEND

○ 36" TRAFFIC CONES

THIS DRAWING IS NOT TO SCALE

PORTABLE TRUCK MOUNTED ATTENUATOR

- UTILIZE A TRUCK MOUNTED ATTENUATOR ATTACHED TO THE REAR OF A TRUCK WITH A MINIMUM GROSS VEHICULAR WEIGHT (GVW) OF 15,000 POUNDS (ACTUAL WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE ATTACHED TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE IN ANY MANNER.
- LOCATE THE TRUCK MOUNTED ATTENUATOR 100 FEET IN ADVANCE OF THE WORK AREA UNLESS OTHERWISE SPECIFIED.
- PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- DUE TO THE WEIGHT OF A TRUCK MOUNTED ATTENUATOR, THE TRUCK MOUNTED ATTENUATOR SUPPLEMENTED WITH AN ADVANCE WARNING ARROW PANEL MAY BE REPLACED WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL WHEN THIS TRAFFIC CONTROL SETUP IS UTILIZED FOR ASPHALT CONCRETE PAVEMENT OPERATIONS. REPLACEMENT WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL SHALL REQUIRE THE ENGINEER'S APPROVAL.

GENERAL NOTES

- ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS.
- ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CORNER POSTS OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org.
- THE CONTRACTOR SHALL PROVIDE AND UTILIZE ANY SPECIAL SIGN MOUNTING ASSEMBLIES AND HARDWARE THAT MAY BE NECESSARY FOR INSTALLING AND MOUNTING SIGNS IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLEFACED GUARDRAIL.
- REFLECTORIZATION OF 36" TRAFFIC CONES USED DURING DAYLIGHT HOURS IS NOT REQUIRED. IF THIS TRAFFIC CONTROL SETUP EXTENDS INTO THE NIGHTTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE III FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- REFLECTORIZE ALL BARRICADES WITH A TYPE VIII OR IX PRISMATIC RETROREFLECTIVE SHEETING ON ALL PROJECTS LET TO CONTRACT AFTER MAY 1, 2012 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- TYPE II BARRICADES SHALL HAVE A MINIMUM WIDTH OF 3 FEET UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- CONDUCT THE WORK IN SUCH A MANNER THAT WILL MINIMIZE ENCROACHMENT OF TRAFFIC CONTROL DEVICES, EQUIPMENT, PERSONNEL, MATERIALS OR ANY WORK RELATED VEHICLES ONTO AN ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAINTAIN AND ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA.
- LANE CLOSURES ARE RESTRICTED TO MAXIMUM LENGTHS OF 2 MILES UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DEPARTMENT.
- IF WORK IS BEING CONDUCTED SIMULTANEOUSLY AT TWO DIFFERENT LOCATIONS WITHIN THE SAME TRAVEL LANE UNDER TWO SEPARATE LANE CLOSURES ON A LOW SPEED URBAN ROADWAY, SEPARATE THE TWO LANE CLOSURES BY NO LESS THAN 1 MILE FROM THE END OF THE FIRST CLOSURE THAT A MOTORIST WILL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CLOSURE.
- IF WORK IS BEING CONDUCTED SIMULTANEOUSLY AT TWO DIFFERENT LOCATIONS IN THE SAME DIRECTION BUT WITHIN DIFFERENT TRAVEL LANES UNDER TWO SEPARATE LANE CLOSURES ON A LOW SPEED URBAN ROADWAY, SEPARATE THE TWO LANE CLOSURES BY NO LESS THAN 2 MILES FROM THE END OF THE FIRST CLOSURE THAT A MOTORIST WILL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CLOSURE.
- UTILIZATION OF A CHANGEABLE MESSAGE SIGN IS OPTIONAL WITH THIS TRAFFIC CONTROL SETUP. HOWEVER, WHEN A CHANGEABLE MESSAGE SIGN IS UTILIZED, INSTALL THE SIGN AS ILLUSTRATED ON THIS STANDARD DRAWING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS, THE PLANS AND/OR THE ENGINEER. INSTALL THE CHANGEABLE MESSAGE SIGN NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE AND SUPPLEMENT THE SIGN LOCATION WITH NO LESS THAN 5 PORTABLE PLASTIC DRUMS FOR DELINEATION AS ILLUSTRATED. 36" STANDARD TRAFFIC CONES OR 42" OVERSIZED TRAFFIC CONES ARE PROHIBITED AS SUBSTITUTES FOR THE PORTABLE PLASTIC DRUMS IN THIS APPLICATION. DURING A RIGHT LANE CLOSURE, THE SIGN SHOULD FLASH ALTERNATELY TO READ "RIGHT LANE CLOSED", "MERGE LEFT" AT A RATE THAT WILL PERMIT MOTORISTS TO READ BOTH MESSAGES AT LEAST ONCE.
- THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
- THIS TYPICAL TRAFFIC CONTROL SETUP APPLIES TO THE INSTALLATION OF A LANE CLOSURE ON AN URBAN ROADWAY WITH A POSTED REGULATORY SPEED LIMIT OF 35 MPH OR LESS.

LEFT LANE CLOSURE

- SIGNS ILLUSTRATED ARE FOR A RIGHT LANE CLOSURE.
- WHEN CLOSING THE LEFT TRAVEL LANE, USE THE FOLLOWING:
1 - W4-2L-48
1 - W20-5L-48-A
- THE STRIPES ON THE BARRICADES TO THE LEFT OF TRAFFIC SHALL SLOPE DOWNWARD FROM THE UPPER LEFT TO THE LOWER RIGHT.
- THE FLASHING ARROW AND THE "LARGE ARROW" SIGN (W1-6-48) SHALL POINT TO THE RIGHT.
- THE CHANGEABLE MESSAGE SIGN SHALL FLASH ALTERNATELY TO READ "LEFT LANE CLOSED", "MERGE RIGHT".

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



SIGNATURE
8/2/12
DATE

#	DATE	CHK	DESCRIPTION
6			
5			
4			
3			
2	2-11-11	JCS	GENERAL UPDATE
1	5-28-10	JCS	CORRECTION
0	8-21-07	JCS	DRAWING NO. UPDATE

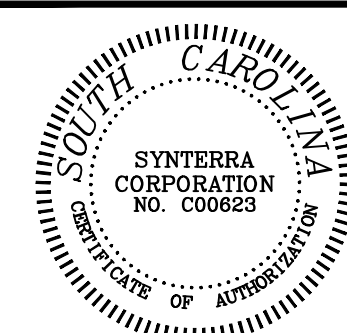
SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

LANE CLOSURE
DAYTIME
URBAN LOW SPEED
≤ 35 MPH

610-010-00
EFFECTIVE LETTING DATE: JAN, 2013

PRELIMINARY NOT FOR CONSTRUCTION



CAUTION

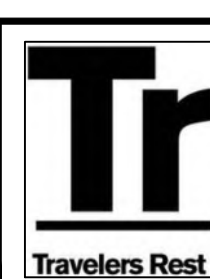


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E	DATE	REVISION
D	10/18/2021	FOR AGENCY REVIEW
C	09/23/2021	FOR AGENCY REVIEW
B	08/10/2021	FOR AGENCY REVIEW
A	07/08/2021	FOR AGENCY REVIEW

TOLERANCES—UNLESS NOTED	BY
FRACTIONAL: ± 1/16"	GTC
DECIMAL: ± 0.010"	GTC
ANGLE: ± 0.1°	GTC
THIS DRAWING IN DESIGN AND DETAIL IS THE PROPERTY OF VULCAN MATERIALS COMPANY AND MUST BE RETURNED UPON DEMAND. THIS DRAWING MUST NOT BE COPIED, REPRODUCED, OR USED WITHOUT PERMISSION.	GTC



CITY OF TRAVELERS REST
125 TRAILBLAZER DRIVE
TRAVELERS REST, SC 29690
PHONE 864-634-8740

DIAGONAL CROSSING AND SIGNAL MODIFICATIONS

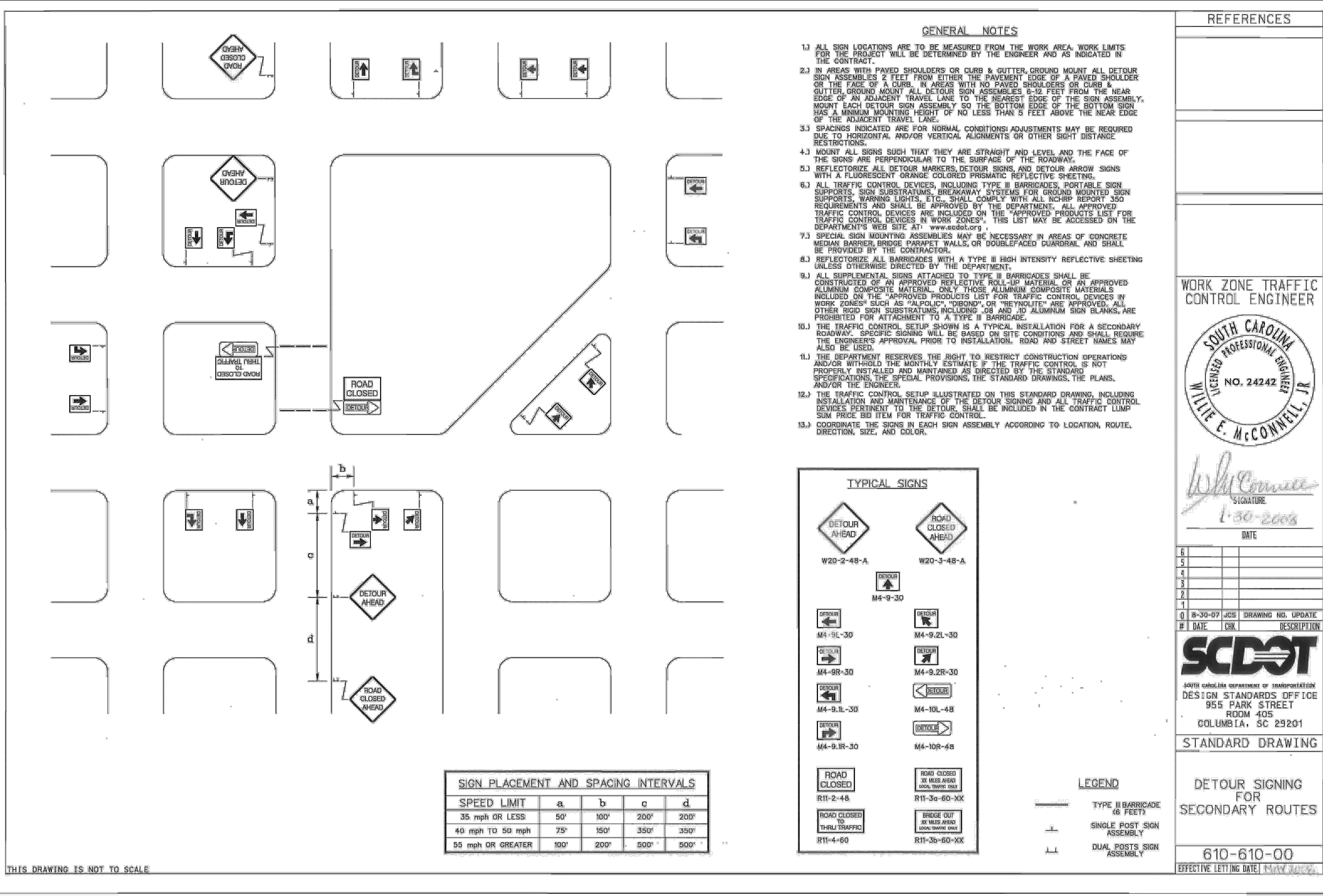
SCDOT TRAFFIC CONTROL PLAN

DIVISION	PLANT
N/A	N/A
BY T. COLTON	PROJ. NO. 1454.01.02
DATE 10/18/2021	FILE SERVER N/A
BY B. GREEN	SCALE N.T.S.
DATE 10/18/2021	SHEET 10 OF 13
DWG. NO.	REV.

C10

D





PRELIMINARY NOT FOR CONSTRUCTION

SOUTH CAROLINA SYNTERRA CORPORATION NO. C00823

CAUTION

South Carolina 811 Call 811 Before you Dig

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

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