

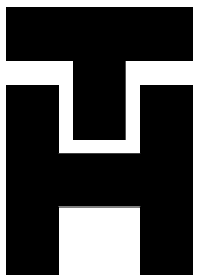
# STORMWATER POLLUTION PREVENTION PLAN

FOR:  
**2 DELL PARKWAY**  
NASHVILLE,  
DAVIDSON COUNTY, TENNESSEE

PREPARED FOR:  
**ARCO DESIGN/BUILD**

**OCTOBER 7, 2021**

**J-29470.0000**



Prepared by:

## THOMAS & HUTTON

Savannah, GA | Charleston, SC | Myrtle Beach, SC | Brunswick, GA | Columbia, SC  
| Charlotte, NC | Greenville, SC | Nashville, TN

## TABLE OF CONTENTS

1.0 Site Description.....	Page 1
2.0 Stormwater Runoff Controls.....	Page 3
3.0 Maintenance .....	Page 6
4.0 Inspections .....	Page 7
5.0 Non-Stormwater Discharges.....	Page 8
6.0 Signatures and Certifications .....	Page 9
7.0 Notice of Termination .....	Page 11

### APPENDICES:

Erosion & Sediment Control Plan and Details .....	Appendix A
Paving, Grading, & Drainage Plan .....	Appendix B
Location and Site Map .....	Appendix C
Notice of Coverage .....	Appendix D
Construction Storm Water Inspection Certification .....	Appendix E
Notice of Termination .....	Appendix F

## **1.0 Site Description**

The site is located at 2 Dell Parkway, Nashville, TN 37217. The site is identified on Davidson County Tax Map 120, Parcel 159. The site is approximately 32.2 acres, of which 11.53 acres will be disturbed to construct the new improvements, which include a 120,000 s.f. warehouse building and the addition of landscaped areas, stormwater best management practices, employee parking lots, and an access driveway. The site is presently a parking lot and consists of mainly asphalt pavement with associated landscape islands and grassy areas. Runoff currently drains to existing drainage inlets on-site and ultimately to a regional detention pond south of the proposed development. Runoff from the proposed site will be treated using stormwater BMPs and drain to the existing drainage system, which eventually drains to a tributary to Mill Creek.

### **1.1 Nature of Construction Activity**

As is typical for construction of any project of this magnitude; there are several types of construction. In order to accomplish the construction of the facility, the following types of construction will occur:

- Site grading;
- Rock excavation;
- Water, sewer, gas, electric, and storm sewer installation;
- Paving; and
- Building construction.

### **1.2 Construction Sequence**

The first element of construction is to attend a Metro Water Services – Stormwater Division – Pre-Construction Meeting. Then, install construction entrances, which are necessary for the vehicles to access the site. This will ensure that tracking of vehicle debris will not occur.

The second element of construction will be the installation of silt fence, the sediment basin, and construction fence. After installation of the previously mentioned devices, Metro Water Services – Stormwater Division will be contacted to perform an inspection of all erosion control devices in order to obtain a grading permit.

Once the grading permit has been obtained and these devices have been installed, clearing, grubbing, excavation, and general mass grading can begin. The remaining site will be constructed according to Nashville-Metro approved plans, including all additional erosion control devices.

Upon permanent site stabilization, silt fence and all other temporary erosion control devices will be removed. These procedures are discussed and shown on the Sediment & Erosion Control Plans (C3.1-C3.8), which are included in Appendix A.

The intent of the Storm Water Pollution Prevention Plan is to minimize the disturbance to the site and the surrounding areas. All construction shall be in accordance with the storm water runoff controls presented in section 2 of this Plan.

### **1.3 Area of Disturbance**

The project site consists of approximately 32.2 acres, of which 11.53 will be disturbed to construct new improvements. The attached Erosion Control Plans details these activities and are included in Appendix A.

#### **1.4 Site Soils**

According to the NRCS Soils Map, soil present on the site includes hydrologic soil group B, consisting of MaB (Maury Silt Loam, 2 to 7 percent slopes) and McB (Maury-Urban Land Complex, 2 to 7 percent slopes. The property is located in Zone X (area of minimal flood hazard) per FEMA Flood Insurance Rate Map Panel No. 47037C0356F for Davidson County, Tennessee.

#### **1.5 Curve Numbers**

The site is presently developed, and current site cover consists primarily of a parking lot, with surface cover mainly of asphalt pavement and some associated landscape islands and grassy areas. The calculated composite curve number for the existing condition is 89. Upon completion of the site, the estimated composite curve number will be 82.

#### **1.6 Location and Site Map**

A copy of the location and site map is included as Appendix C at the back of this Plan.

#### **1.7 Outfall Points**

Stormwater runoff will be treated with two Level 1 Bioretention Areas, one Level 2 Bioretention, and one Level 2 Water Quality Swale per the Nashville LID manual. After treatment, storm water is discharged into an existing 24" RCP pipe near Level 1 Bioretention Area #3. The existing drainage system flows to the southeast and ultimately discharges to a tributary of Mill Creek.

#### **1.8 Industrial Activities**

There are currently no industrial activities taking place at this site. In addition, there are no industrial activities planned for the facility.

#### **1.9 Receiving Stream and Wetlands**

Runoff from the site will be treated and drain to an existing 24" RCP pipe. The existing drainage system flows to the southeast and ultimately discharged to a tributary of Mill Creek.

#### **1.10 Buffer Zones**

There are not buffer zones on site.

#### **1.11 On Site Waste**

No on-site waste disposal or sewer septic systems are planned for the site.



## 2.0 Storm Water Runoff Controls

### 2.1 Erosion and Sediment Controls

#### 2.1.1 General Criteria and Requirements

- The erosion prevention and sediment controls have been designed to control the rainfall and runoff from a 5-year, 24-hour storm due to the ETW status of the tributary of Mill Creek.
- The construction-phase erosion and sediment controls shall be designed to minimize the dislodging and suspension of soil in water. Sediment controls shall be designed to retain mobilized sediment on site.
- All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. All control measures selected must be able to slow runoff so that rill and gully formation is prevented. When steep slopes and/or fine particle soils are present at the site, additional physical or chemical treatment of storm water runoff may be required, and must be fully described. If periodic inspections or other information indicates a control has been used inappropriately, or incorrectly, the permittee must replace or modify the control for relevant site situation.
- If permanent or temporary vegetation is to be used as a control measure, then the timing of the planting of the vegetation cover must be discussed in the SWPPP. Delay in planting cover vegetation cover until winter months or dry months should be avoided, if possible.
- If sediment escapes the construction site, off-site accumulations of sediment **that have not** reached a stream must be removed at a frequency sufficient to minimize offsite impacts (e.g., fugitive sediment that has escaped the construction site and has collected in a street must be removed so that it is not subsequently washed into storm sewers and streams by the next rain and/or so that it does not pose a safety hazard to users of public streets.) The permittees shall not initiate remediation/restoration of a stream without consulting the Division of Water Pollution Control first. This permit does not authorize access to private property. Arrangements concerning removal of sediment on adjoining property must be settled by the permittees with the adjoining property landowner.
- Sediment should be removed from sediment traps, silt fences, sedimentation ponds, and other sediment controls as necessary, and must be removed when design capacity has been reduced by 50%.
- Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events (e.g. forecasted by local weather reports), or otherwise prevented from becoming a pollutant source for storm water discharges (e.g., screening outfalls, daily pick-up, etc.). After use, materials used for erosion prevention and sediment control should be removed or otherwise prevented from becoming a pollutant source for storm water discharges.
- Offsite erodible material storage and/or borrow areas (also including overburden and stockpiles of dirt, etc.) used primarily by the permitted

project are considered a part of the project and shall be addressed in the SWPPP and included in the fee calculation.

- Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than 10 calendar days prior to grading or earth moving unless the area is seeded and/or mulched or other temporary cover is installed.
- Clearing and grubbing must be held to the minimum necessary for grading and equipment operation.
- Construction must be phased for projects in which over 50 acres of soil will be disturbed. Areas of the completed phase must be stabilized within 15 days (refer to Stabilization practices below). No more than 50 acres of active soil disturbance is allowed at any time during the construction project.
- Erosion prevention and sediment control measures must be in place and functional before earth moving operations begin, and must be constructed and maintained throughout the construction period. Temporary measures may be removed at the beginning of the workday, but must be replaced at the end of the workday.
- The following records must be kept on site: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated, inspection records, and rainfall records.
- Permittees shall maintain a rain gauge and daily rainfall records at the site, or use a reference site for a record of daily amount of precipitation.

### **2.1.2 Stabilization Practices**

The SWPPP shall include a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where attainable and that disturbed portions of the site are stabilized. Site plans should comply with buffer zone requirements, if applicable, in which construction activities, borrow and/or fill are prohibited. Stabilization practices may include temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Use of impervious surfaces for final stabilization in lieu of a permanent vegetative cover should be avoided where practicable. No stabilization, erosion control or sediment treatment measures are to be installed in a stream without obtaining an Aquatic Resource Alteration Permit (ARAP).

Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed not later than 15 days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following, situations, temporary stabilization measures are not required:

- Where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground

- conditions, stabilization measures shall be initiated as soon as practicable; or
- Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 15 days.

Permanent stabilization with perennial vegetative (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fines (silt and clay sized particles) or crusher runs will be considered a non-eroding surface.

### 2.1.3 Structural Practices

The attached drawings depict several structural practices to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices include, but are not limited to the following:

- Silt fences;
- Sediment basin;
- Earth dikes;
- Drainage swales;
- Check dams;
- Subsurface drains;
- Pipe slope drains;
- Level spreaders;
- Rock outlet protection;
- Reinforced soil retaining systems;
- Storm drainage inlet protection;
- Diversion ditch; and

Muddy water to be pumped from excavation and work areas must be held in settling basins, filtered, or chemically treated prior to its discharge into surface waters. Water must be discharged through a pipe, well-grassed or lined channel or other equivalent means so that the discharge does not cause erosion and sedimentation. Discharge water must not cause an objectionable color contrast with the receiving stream.

## 2.2 Storm Water Management

This portion of the Plan addresses measures that are installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed.

The general permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed, the site has undergone final stabilization, and the permit coverage has been terminated. Permittees are only responsible for the installation and maintenance of the storm water management measures prior to final stabilization of the site and are not responsible for maintenance after storm water discharges associated with construction activity have been eliminated from the site. All permittees are encouraged to limit the amount of post construction runoff, if not required

by local building regulations, in order to minimize in-stream channel erosion in the receiving stream.

The planned storm water management measures for the project include the final stabilization of graded areas. All graded areas shall receive erosion control fabric for those slopes specified on the drawings and all disturbed areas are to receive seeding and straw mulch in accordance with the landscaping drawings and specifications.

Any portions of the property that are sold prior to completion of construction will be required by the owner/developer to provide a separate sediment and erosion control plan for those portions to be sold. These plans shall be integrated into the overall sediment and erosion control site plan. In addition, the contractor will ensure that measures will be implemented which prevent the "taking" of legally protected state or federal listed threatened or endangered aquatic fauna.

### **2.3 Other Items Needing Control**

Construction and waste materials that are expected to be stored on site include those typically found at a building construction site. These may include:

- Lumber for forming and construction;
- Stockpiled piping and catch basins;
- Stockpiled rock and gravel;
- Structural steel and reinforcing bars;
- Building materials, such as studs, roof trusses, wiring, conduits, mortar, rock for veneer, shingles, sand, etc.; and
- Construction equipment and vehicles.

All materials shall be stored in such a manner that the materials containing potential pollutants (e.g. machine oils) cannot come in contact with rainwater. No solid materials, including building materials, shall be placed in waters of the state, except as authorized by a section 404 permit and/or an Aquatic Resource Alteration Permit.

Off-site vehicle tracking of sediments and the generation of dust shall be minimized.

### **2.4 Approved Local Government Sediment and Erosion Control Requirements**

The Grading and Drainage Plan, will be submitted, reviewed and approved by the Nashville Metro – Stormwater Division and is included as part of this Plan as Appendix B. All sediment and erosion control measures must be maintained throughout the life of the project. The site is subject to inspection by said Department at any time. The grading permit issued by said Department must be displayed at the project trailer.

This Plan may be amended to reflect any change that is instituted by the local government to sediment and erosion site plans or site permits, or storm water management site plans or site permits for which the owner (or any of its agents) receives written notice.

## **3.0 Maintenance**

The authorized contractor, as the site Operator, is responsible for ensuring that all vegetation, erosion, and sediment control measures, buffer zones, and other protective measures identified in the site plan are kept in good and effective operating condition. Maintenance needs

identified by inspections or other means shall be accomplished before the next storm event, but in no case more than seven days after the need is identified.

## **4.0 Inspections**

### **4.1 Inspector Training and Certification**

Inspectors must have successfully completed the "Fundamentals of Erosion Prevention and Sediment Control" course, or an equivalent course, for individuals involved in land-disturbing activities, which provides a working knowledge of erosion prevention and sediment controls. This requirement goes in effect 24 months following the new permit effective date (June 17, 2005). A copy of the certification or training record for inspector certification should be kept on site.

### **4.2 Schedule of Inspections**

- a) Inspections described in paragraphs c, d and e listed below, shall be performed at least twice every calendar week. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes. Inspections requirements do not apply to definable areas that have been finally stabilized. Written notification of the intent to conduct only monthly inspections and the justification for such request must be submitted to the local Environmental Field Office, or the division's Nashville Central Office for projects of the Tennessee Department of Transportation (TDOT) and the Tennessee Valley Authority (TVA).
- b) Qualified personnel (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.
- c) Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion prevention and sediment control measures identified in the SWPPP shall be observed to ensure that they are operating correctly.
- d) Outfall points (where discharges leave the site or enter water of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving water. Where discharge location are inaccessible, nearby downstream locations shall be impacted. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
- e) Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.
- f) Based on the results of the inspection, the site description identified in the SWPPP in accordance with this permit and pollution prevention measures identified in the SWPPP in accordance with this permit shall be revised as

appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes of the SWPPP, but in no case later than 14 days following the inspection.

- g) Inspections shall be documented and include the scope of the inspection, name(s) and title of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan (including the location(s) of discharges of sediment or other pollutants from the site and of any control device that failed to operate as designed or proved inadequate for a particular location), and actions taken in accordance with the Inspections Section of this permit. Inspection documentation will be maintained on site and made available upon request. Inspection reports must be submitted to the division within 10 days of the request. Permittees not discharging into impaired or high quality waters may, but are not required to, use the inspection form provided in Appendix E.

### **5.0 Non-Storm Water Discharges**

The following non-storm water discharges from active construction sites are authorized under the general permit and are anticipated during construction:

- Dewatering of work areas of collected storm water and ground water;
- Water used to wash vehicles (of dust and soil, not process materials such as oils, asphalt or concrete) where detergents are not used and detention and/or filtering is provided before the water leaves sites;
- Water use to control dust;
- Potable water sources including waterline flushings from which chlorine has been removed to the maximum extent practicable;
- Routine external building wash down which does not use detergents or other chemicals;
- Uncontaminated ground water or spring water; and
- Foundation or footing drains where flows are not contaminated with pollutants (process materials such as solvents, heavy metals, etc.).

All non-storm water discharges, not limited to those identified above shall be discharged through stable discharge structures. These would include the temporary sedimentation basins or the subsurface drainage system shown on the attached grading plan(s). All non-storm water discharges authorized by the General Permit must be free of sediment or other solids and must not cause erosion of soil or the stream bank, or result in sediment impacts to the receiving stream.

## 6.0 Signatures and Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<u>VP Portfolio Asset Mgr.</u>	<u></u>	<u>8/23/21</u>
Title	Signature	Date

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP reference above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fines and imprisonment, for knowing violations and for failure to comply with these permit requirements.

### Construction Manager:

<u>Project Manager</u>	<u></u>	<u>8/19/2021</u>
Title	Signature	Date

**ADDITIONAL SUB-CONTRACTORS**

**Company:** ARCO Design/Build

Project Manager

Title

Brian Warr

Signature

8/19/2021

Date

**Company:** \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**Company:** \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



**7.0 Notice of Termination - (Construction Site Operator)**

Where a site has been finally stabilized and all storm water discharges from Construction activities that are authorized by this permit are eliminated, or where storm water discharges have otherwise been eliminated, or where the operator of all storm water discharges at a facility changes, the permittee must submit a signed Notice of Termination, which is included in Appendix F.

## Appendix A Erosion & Sediment Control Plan and Details



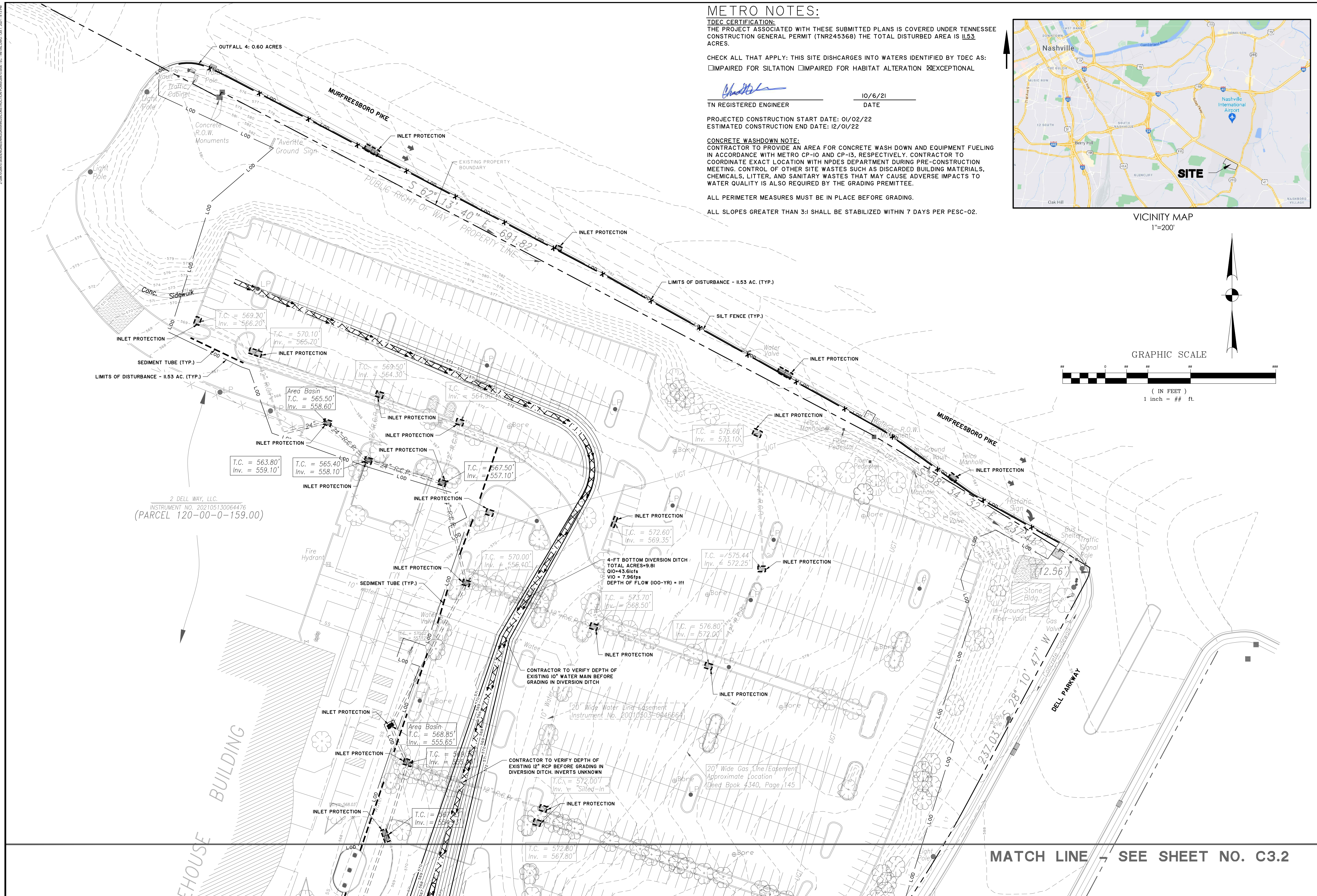
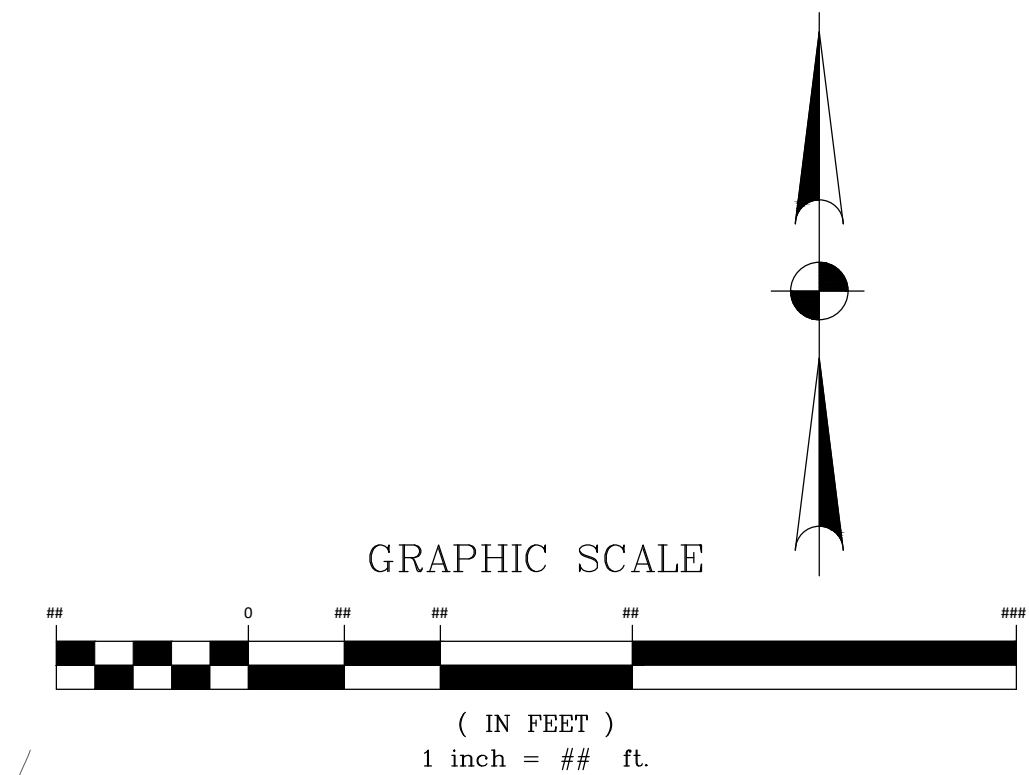
**TDEC CERTIFICATION:**  
THE PROJECT ASSOCIATED WITH THESE SUBMITTED PLANS IS COVERED UNDER TENNESSEE  
CONSTRUCTION GENERAL PERMIT (TNR245368) THE TOTAL DISTURBED AREA IS 11.53  
ACRES.

☐IMPAIRED FOR SILTATION ☐IMPAIRED FOR HABITAT ALTERATION ☒EXCEPTIONAL

DATE \_\_\_\_\_

ESTIMATED CONSTRUCTION END DATE: 12/01/22

ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITHIN 7 DAYS PER PESC-02.

[illegible]

**THOMAS & HUTTON**  
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ARCO DESIGN/BUILD  
DAVIDSON COUNTY, TN  
2 DELL PARKWAY  
EROSION CONTROL - INITIAL

NO:	J- 29470.0000
:	8-19-21
WN:	CSH
GNED:	CSH
EWED:	CAG
MOVED:	CAG
E:	1° = 40'

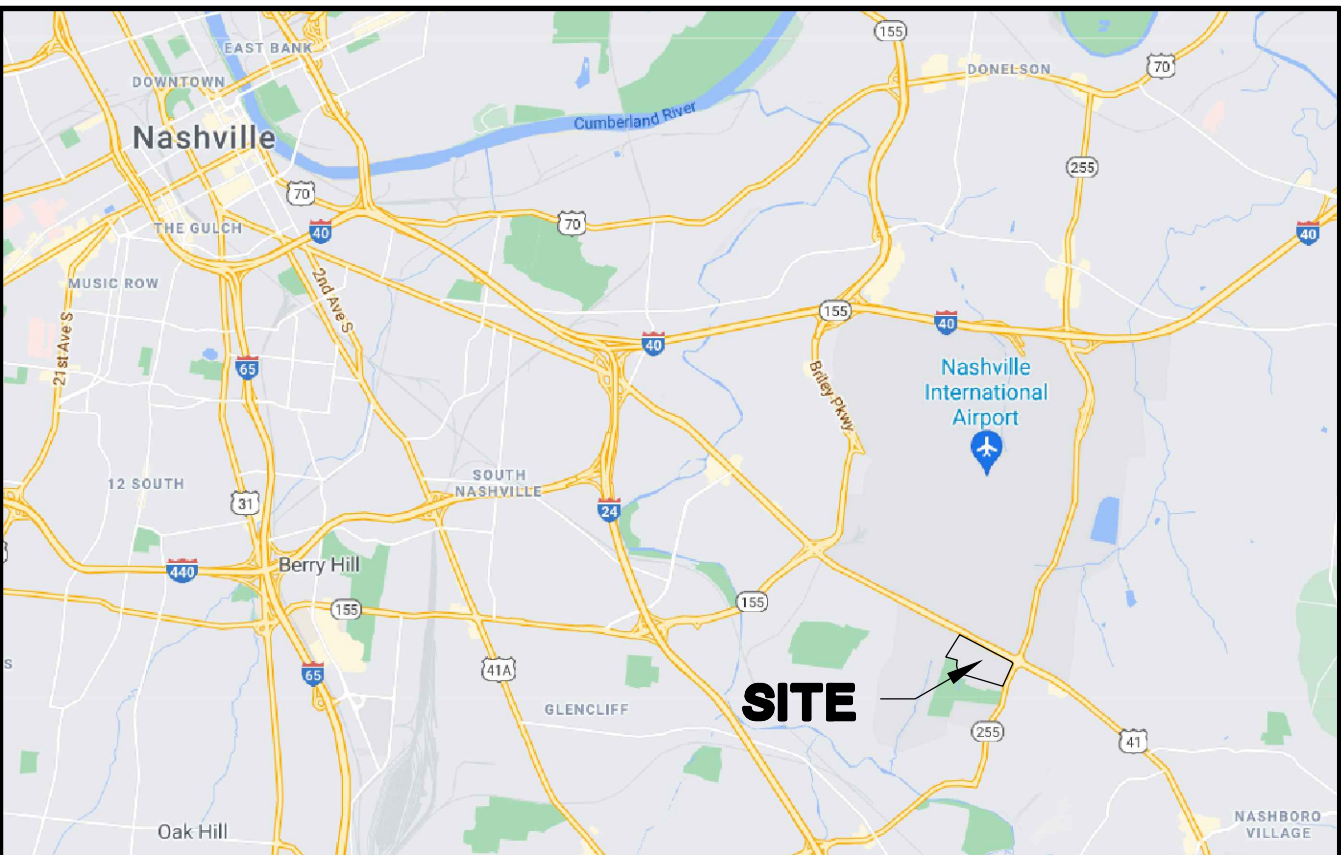
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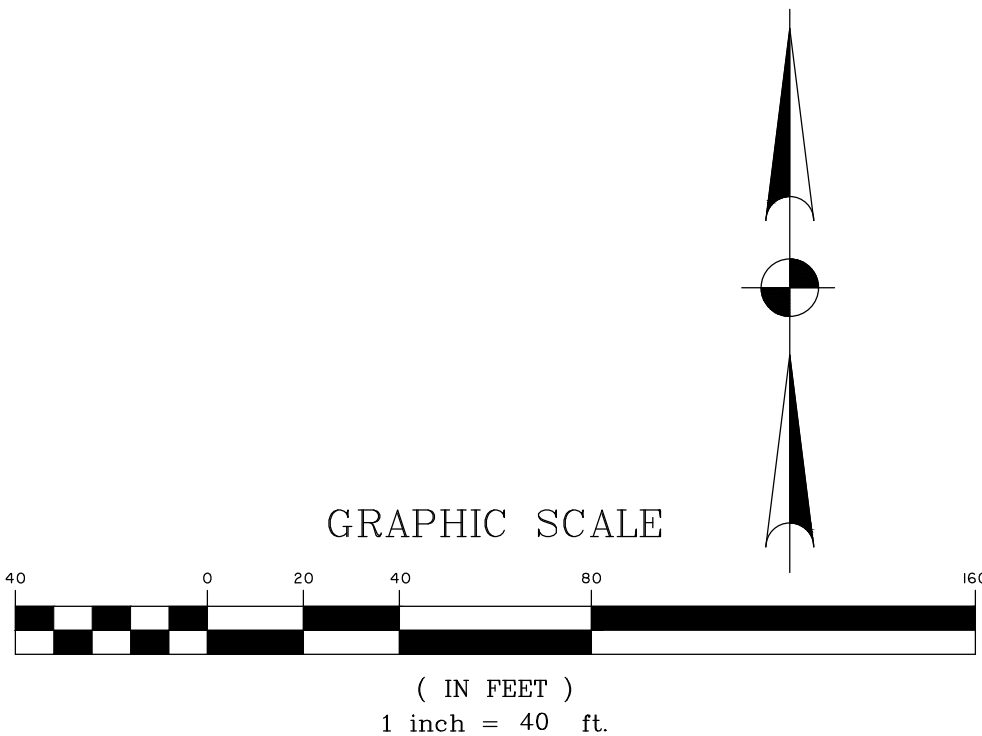




ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITHIN 7 DAYS PER PESC-02.



VICINITY MAP  
1"=200'

[illegible]

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**ARCO DESIGN/BUILD**  
DAVIDSON COUNTY, TN

2 DELL PARKWAY

**EROSION CONTROL - INTERMEDIATE**

JOB NO:	J-29470.0000
DATE:	8-19-21
DRAWN:	CSH
DESIGNED:	CSH
REVIEWED:	CAG
APPROVED:	CAG
SCALE:	1" = 40'

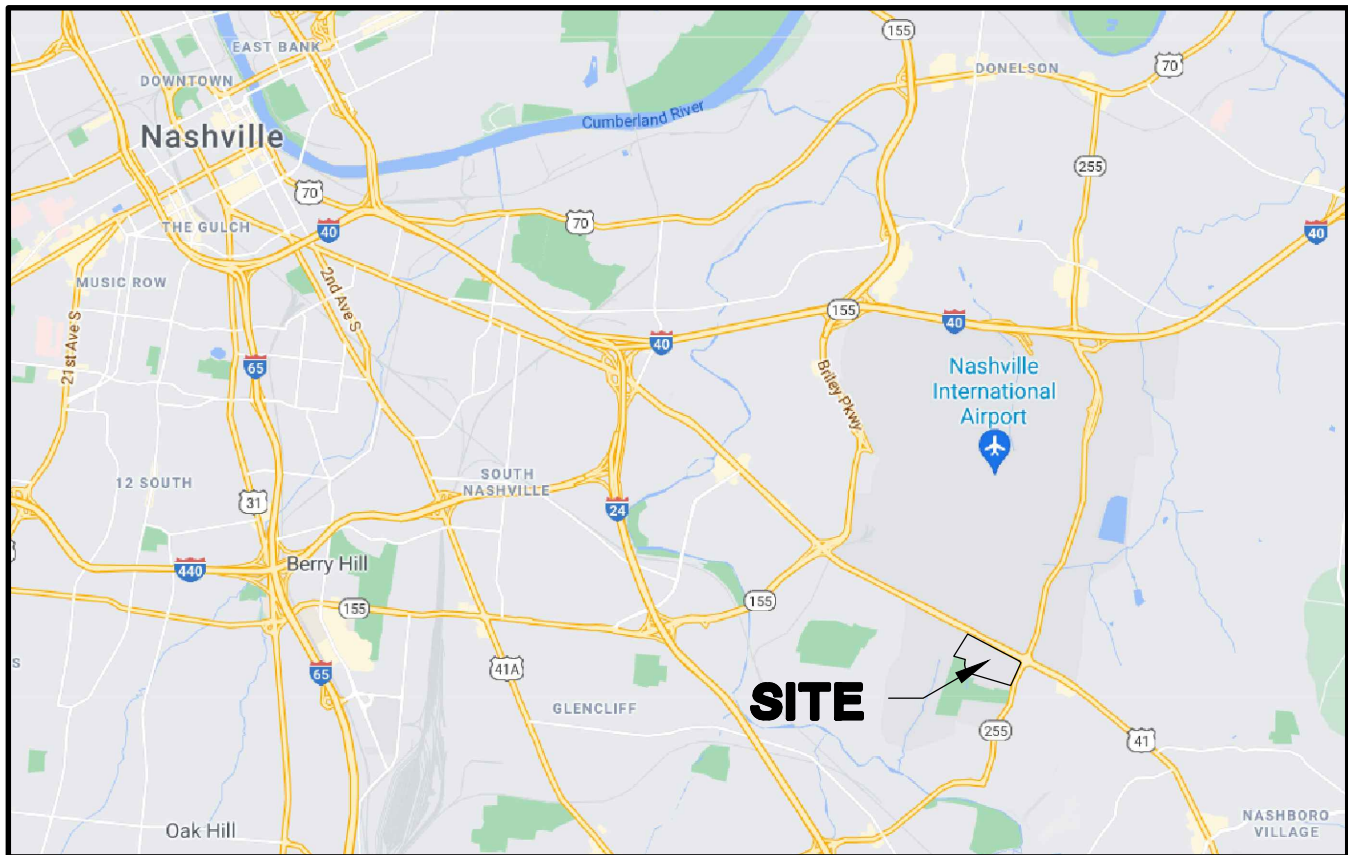
**C3.3**



[illegible]

GRAPHIC SCALE

( IN FEET )  
1 inch = 40 ft.



VICINITY MAP  
1"=200'

[illegible]

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&  
HUTTON**

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# ARCO DESIGN/BUILD

2 DELL PARKWAY

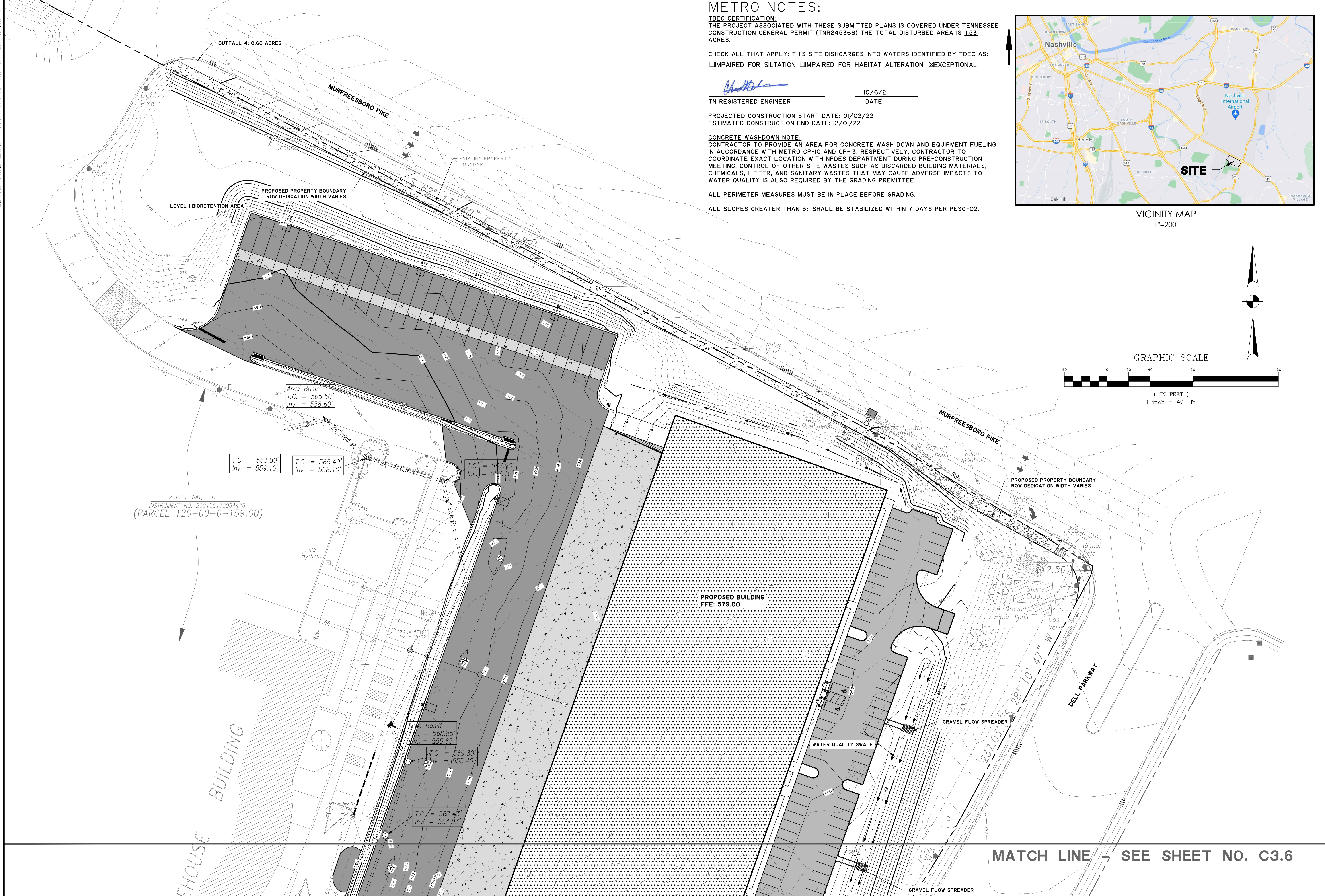
EROSION CONTROL - INTERMEDIATE

JOB NO:	J-29470.0000
DATE:	8-19-21
DRAWN:	CSH
DESIGNED:	CSH
REVIEWED:	CAG
APPROVED:	CAG
SCALE:	1" = 40'

## C3.4



J:\29470\29470.0000\ENGINEERING\DRAWINGS\CONSTRUCTION\PLANS\29470.0000 - EC - FINAL.dwg - 04/7/2021 - 4:48 PM



METRO NOTES:

**TDEC CERTIFICATION:**  
THE PROJECT ASSOCIATED WITH THESE SUBMITTED PLANS IS COVERED UNDER TENNESSEE CONSTRUCTION GENERAL PERMIT (TNR245368) THE TOTAL DISTURBED AREA IS 11.53 ACRES.

CHECK ALL THAT APPLY: THIS SITE DISCHARGES INTO WATERS IDENTIFIED BY TDEC AS:  
☐IMPAIRED FOR SILTATION ☐IMPAIRED FOR HABITAT ALTERATION ☒EXCEPTIONAL

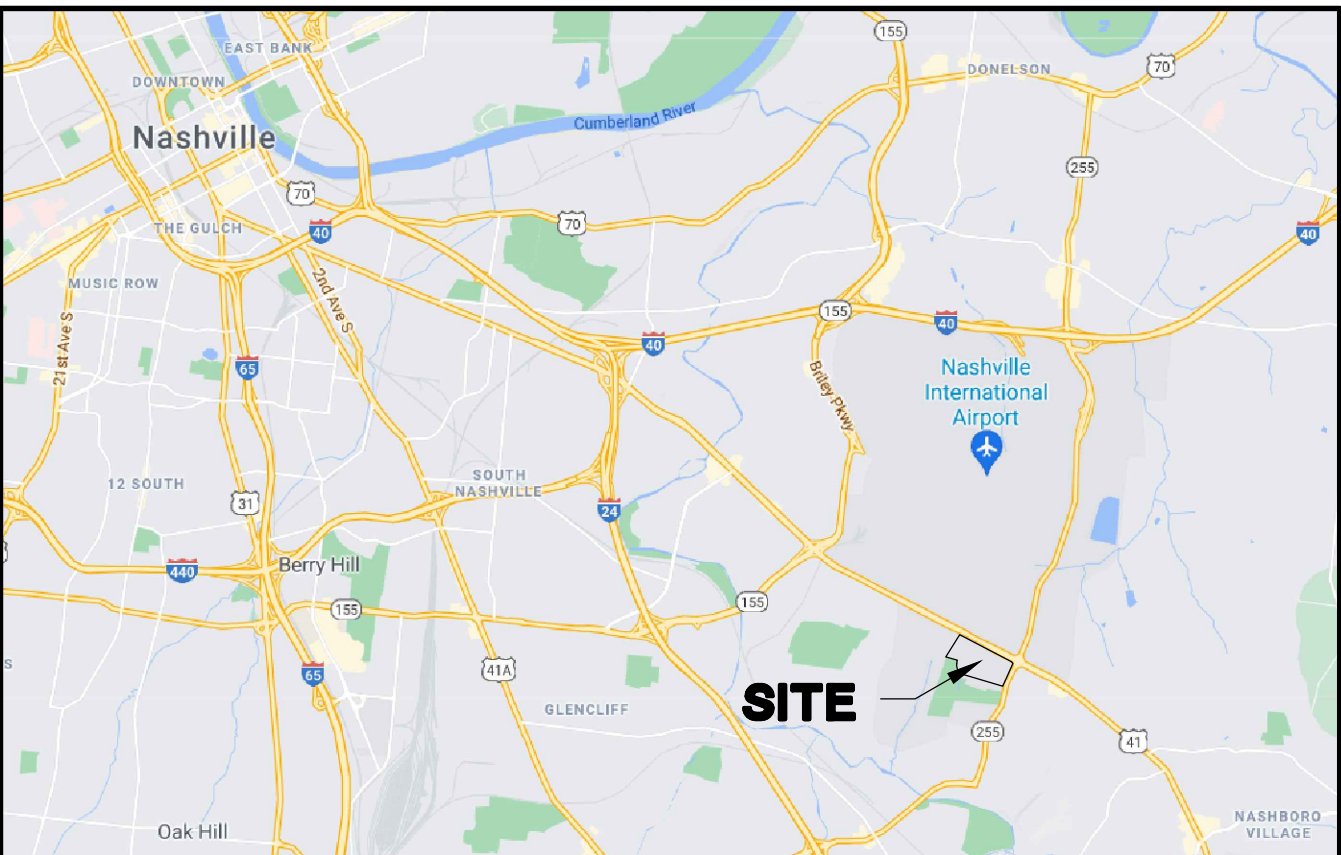
[Signature] 10/6/21  
TN REGISTERED ENGINEER DATE

PROJECTED CONSTRUCTION START DATE: 01/02/22  
ESTIMATED CONSTRUCTION END DATE: 12/01/22

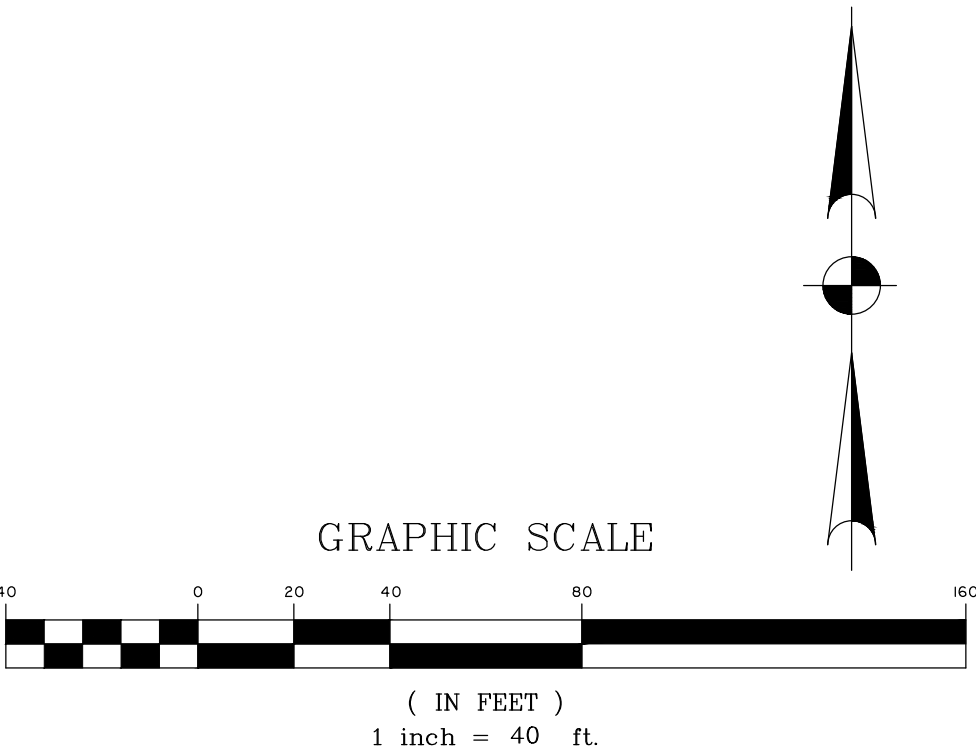
**CONCRETE WASHDOWN NOTE:**  
CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRE-CONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.

ALL PERIMETER MEASURES MUST BE IN PLACE BEFORE GRADING.

ALL SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITHIN 7 DAYS PER PESC-02.



VICINITY MAP  
1"=200'



2 DELL WAY, LLC.  
INSTRUMENT NO. 202105130064476  
(PARCEL 120-00-0-159.00)



NO.	REVISIONS	BY	DATE

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**ARCO DESIGN/BUILD**  
DAVIDSON COUNTY, TN  
2 DELL PARKWAY  
EROSION CONTROL - FINAL

JOB NO: J-29470.0000  
DATE: 8-19-21  
DRAWN: CSH  
DESIGNED: CSH  
REVIEWED: CAG  
APPROVED: CAG  
SCALE: 1" = 40'

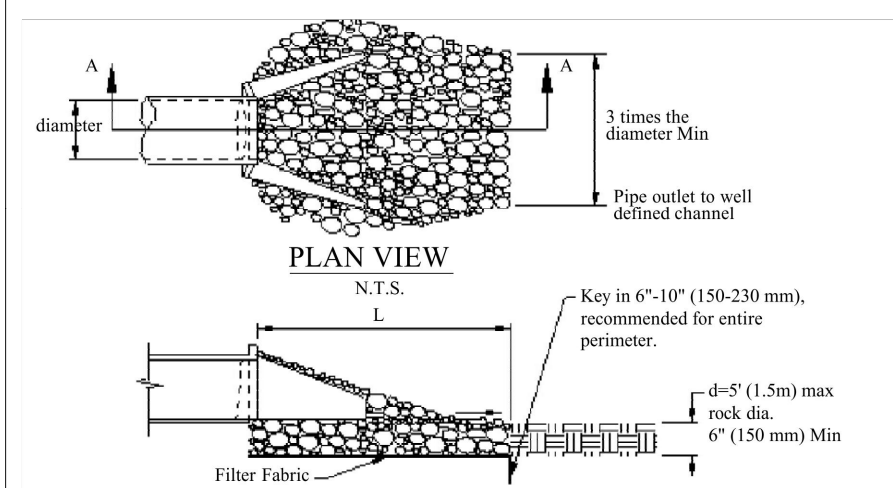
**C3.5**







<b>ACTIVITY:</b> Temporary Outlet Protection	TCP – 25
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Pipe Diameter (in mm)	Discharge ( $\text{m}^3/\text{sec}/\%$ )	Apron Length, L (ft (m))	Rip-Rap D <sub>50</sub> Diameter Min (in (mm))
12 (300)	4.9 (0.14)	10 (3)	4 (100)
	9.89 (0.28)	13 (4)	6 (150)
18 (450)	9.89 (0.28)	10 (3)	6 (150)
	20.13 (0.57)	16 (5)	8 (200)
	30.01 (0.85)	23 (7)	12 (300)
	39.90 (1.13)	26 (8)	16 (400)
24 (600)	30.01 (0.85)	16 (5)	8 (200)
	39.90 (1.13)	26 (8)	12 (300)
	50.14 (1.42)	26 (8)	12 (300)
	60.03 (1.70)	30 (9)	16 (400)

Source: USDA-SCS

Figure TCP-25-1  
Outlet Protection Sizing

Volume 4: Stormwater Best Management Practices – Temporary Construction Management Practices	TCP-25-4	February 2000
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<b>ACTIVITY:</b> Temporary Inlet Protection	TCP – 24
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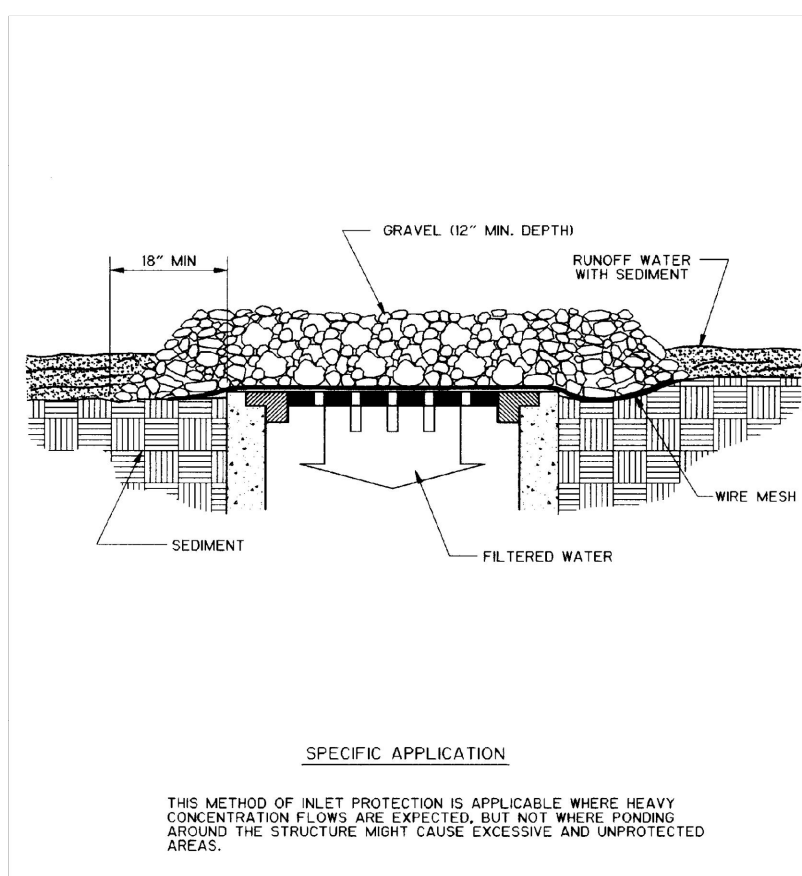


Figure TCP-24-4  
Wire Mesh and Gravel Inlet Filter

Volume 4: Stormwater Best Management Practices – Temporary Construction Management Practices	TCP-24-8	September 2013
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<b>ACTIVITY:</b> Stabilized Construction Entrance	TCP – 03
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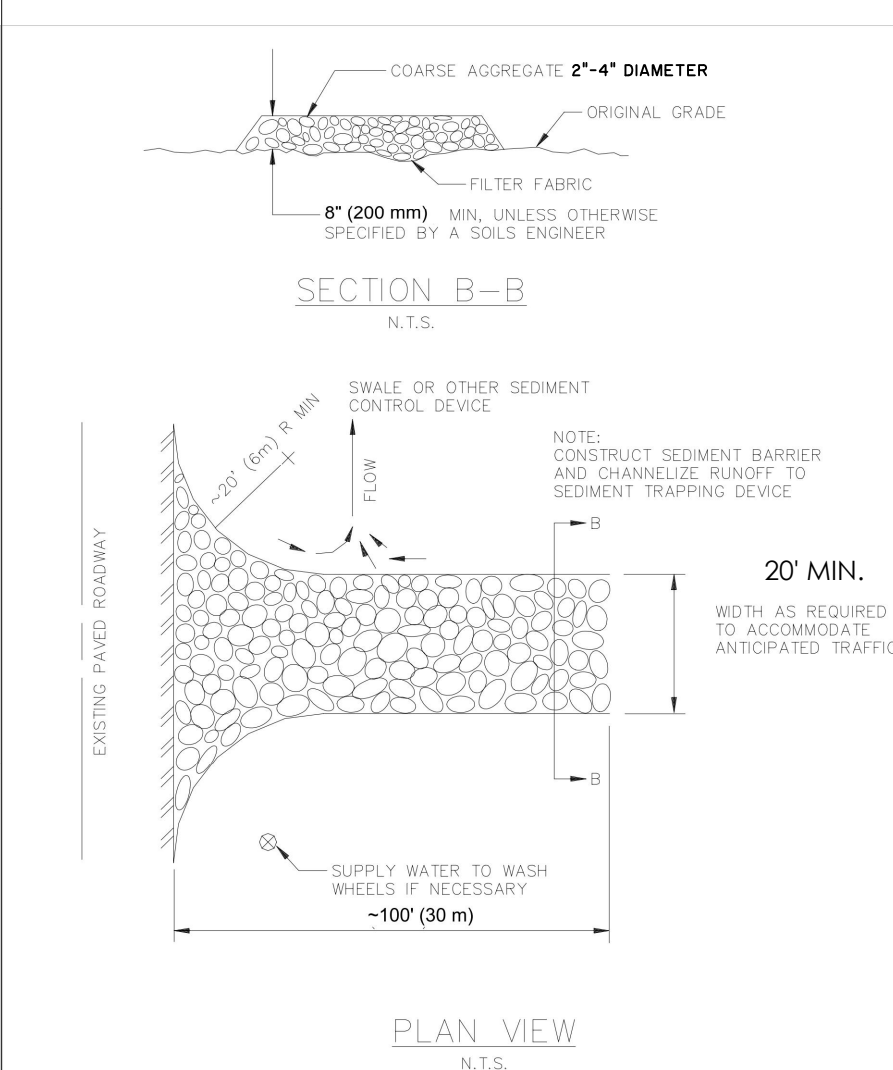


Figure TCP-03-1  
Stabilized Construction Entrance

Volume 4:  
Stormwater Best Management Practices –  
Temp. Construction Site Management Practices TCP-03-5 September 2013

<b>ACTIVITY:</b> Geotextiles	PESC – 02
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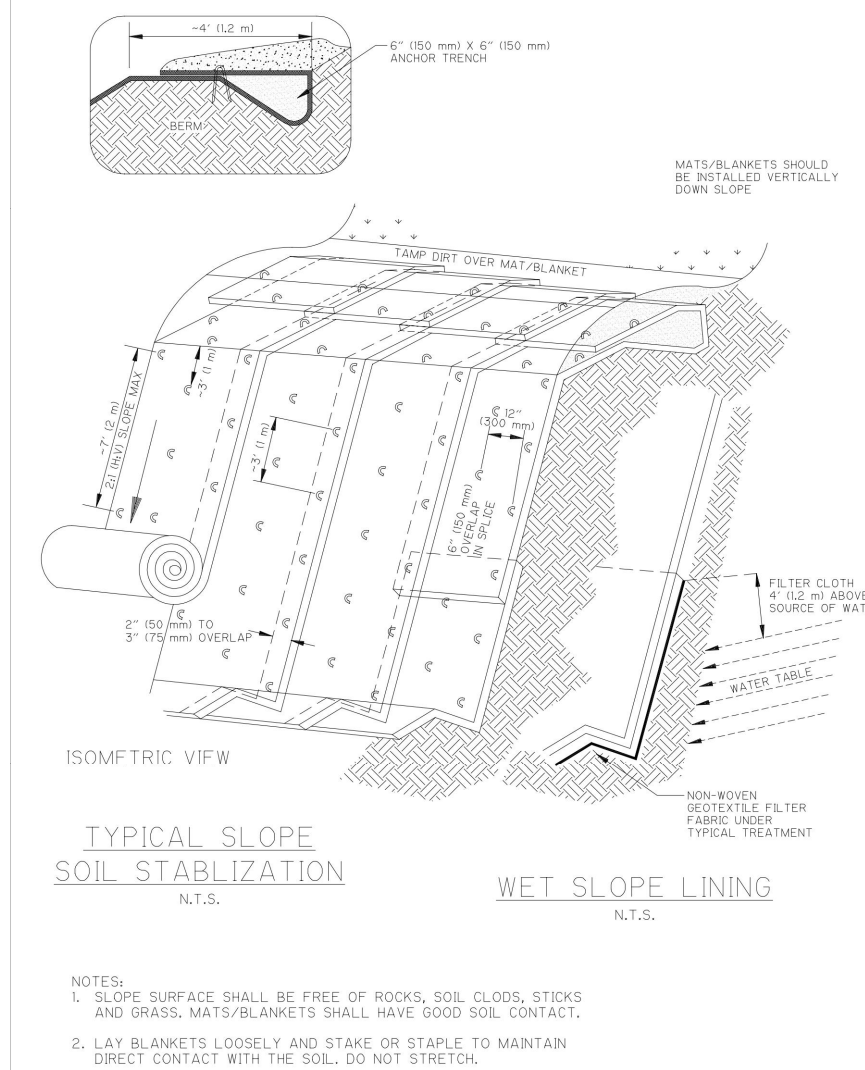


Figure PESC-02-2  
Anchoring Geotextiles on Embankments

Volume 4:  
Stormwater Best Management Practices –  
Permanent E&S Control Management Practices PESC-02-4 February 2000

<b>ACTIVITY:</b> Weighted Sediment Tube	TCP – 14
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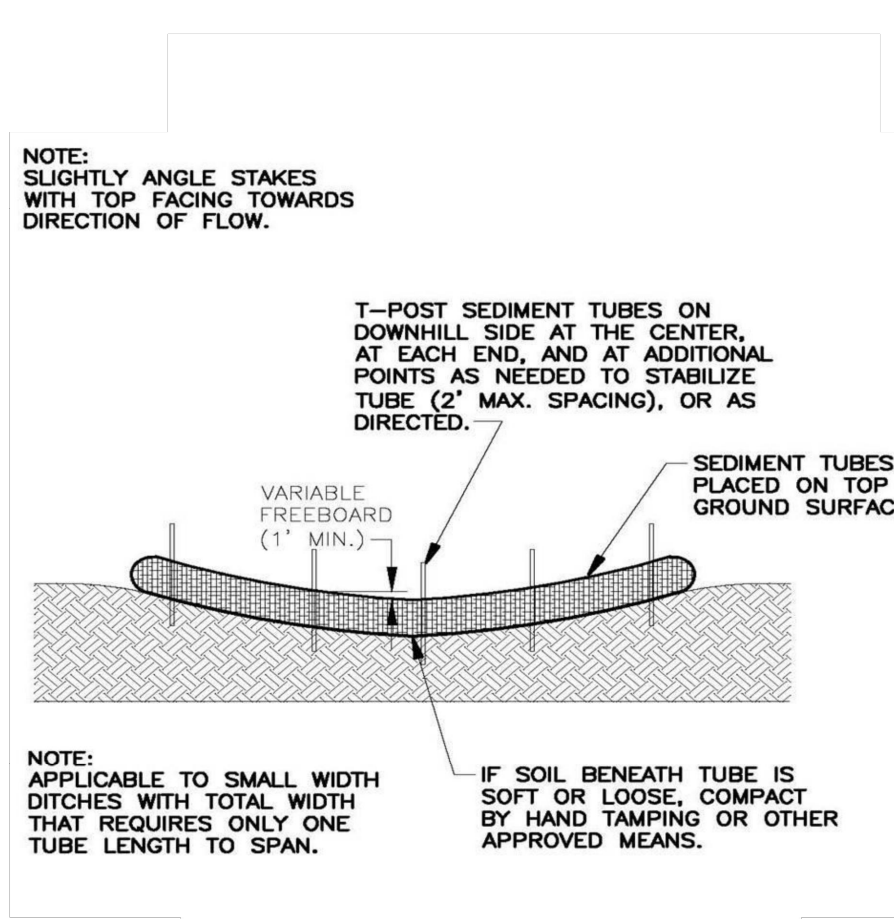


Figure TCP-14-1  
Small Ditch Checks for Sediment Tubes

Volume 4: Stormwater Best Management Practices – Temp. Construction Management Practices	TCP-14-6	August 2009
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<b>ACTIVITY:</b> Temporary Diversions, Drains and Swales	TCP – 22
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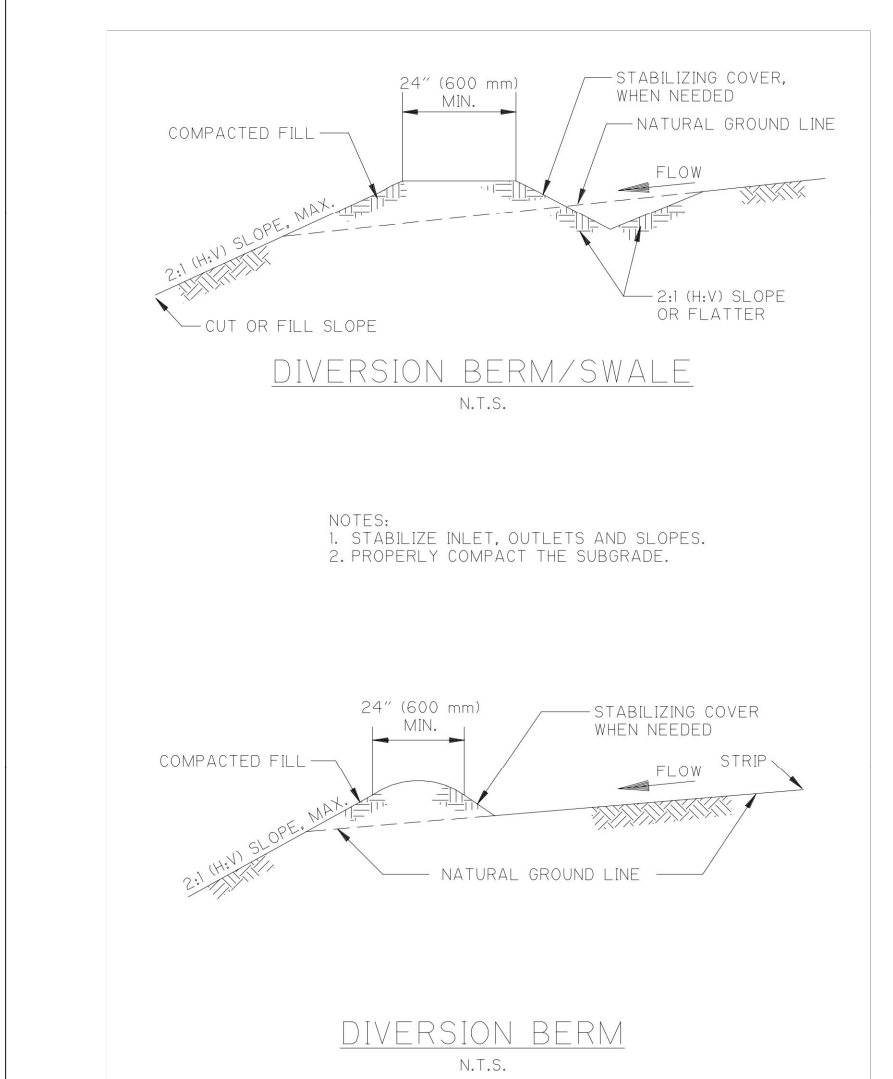
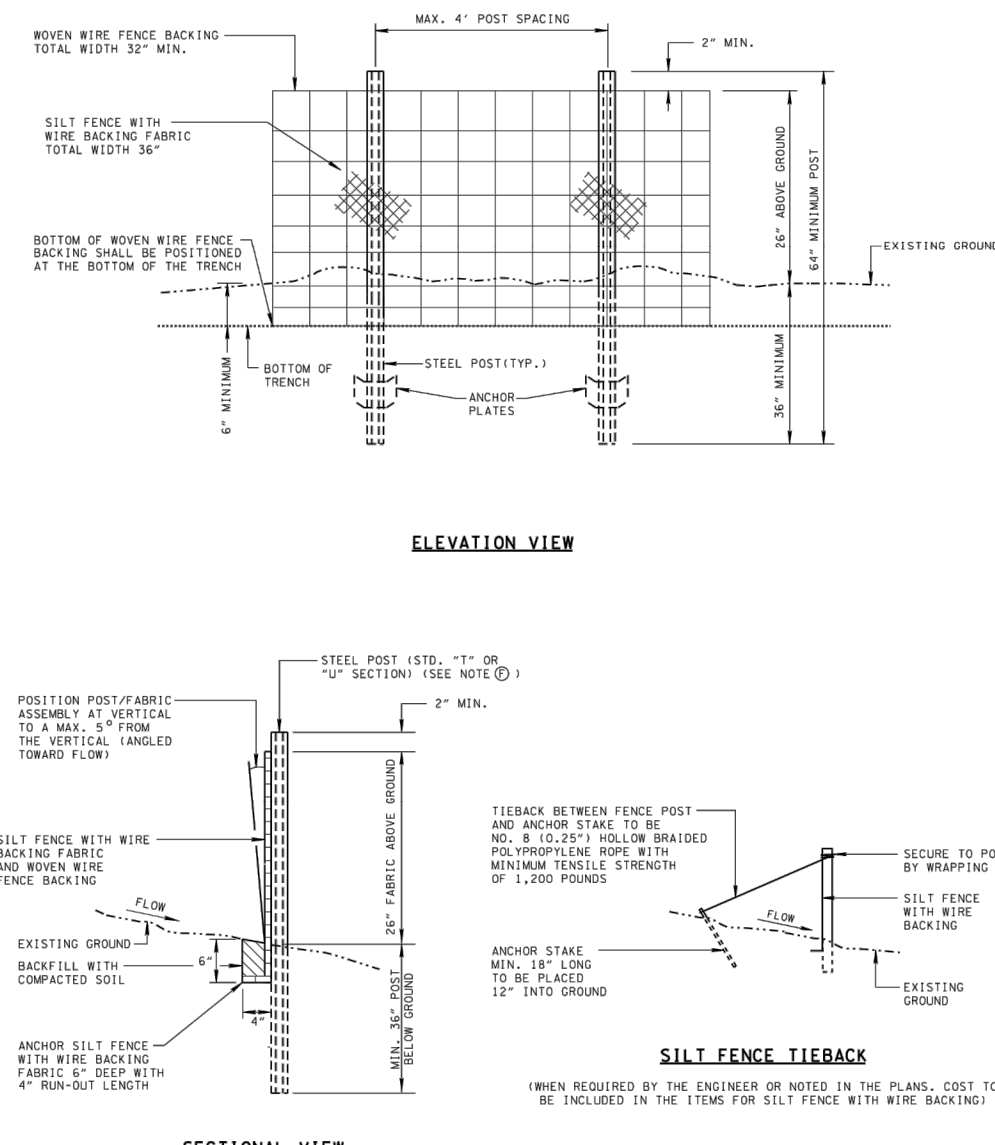


Figure TCP-22-4  
Diversion Berm and Berm/Swale

Volume 4: Stormwater Best Management Practices – Temp. Construction Management Practices	TCP-22-12	February 2000
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SILT FENCE TIEBACK

EROSION CONTROL PLAN LEGEND: • SFB • SFB • SFB • SILT FENCE WITH WIRE BACKING

SILT FINE WITH WIRE BAKING FABRIC SPECIFICATIONS	
FABRIC PROPERTIES AND TEST METHODS	REQUIRED PHYSICAL PROPERTIES (MINIMUM VALUES OF TEST DATA)
GEOTEXTILE FABRIC TYPE (ASTM D4856)	WOVEN MONOLAM (LANT)
APPARENT OPENING SIZE (ASTM D4856)	* TO 10" LO STANDARD SIEVE
WATER FLOW (ASTM D4856)	18 GPM/FT <sup>2</sup>
TENSILE STRENGTH (ASTM D4862)	* 210 LBS. (HARP DIRECTION) X 210 LBS. (WELL DIRECTION)
ULTRAVIOLET STABILITY (AFTER 500 HRS PER ASTM D3658)	2.900
BURST STRENGTH (ASTM D3686)	4.200 PSI
PUNCTURE STRENGTH (ASTM D4883)	2.105 LBS.
TRAPEZOIDAL TEAR (ASTM D4855)	* 210 LBS. (HARP DIRECTION) X 210 LBS. (WELL DIRECTION)

## SILT FENCE WITH WIRE BACKING GENERAL NOTES

- [illegible]

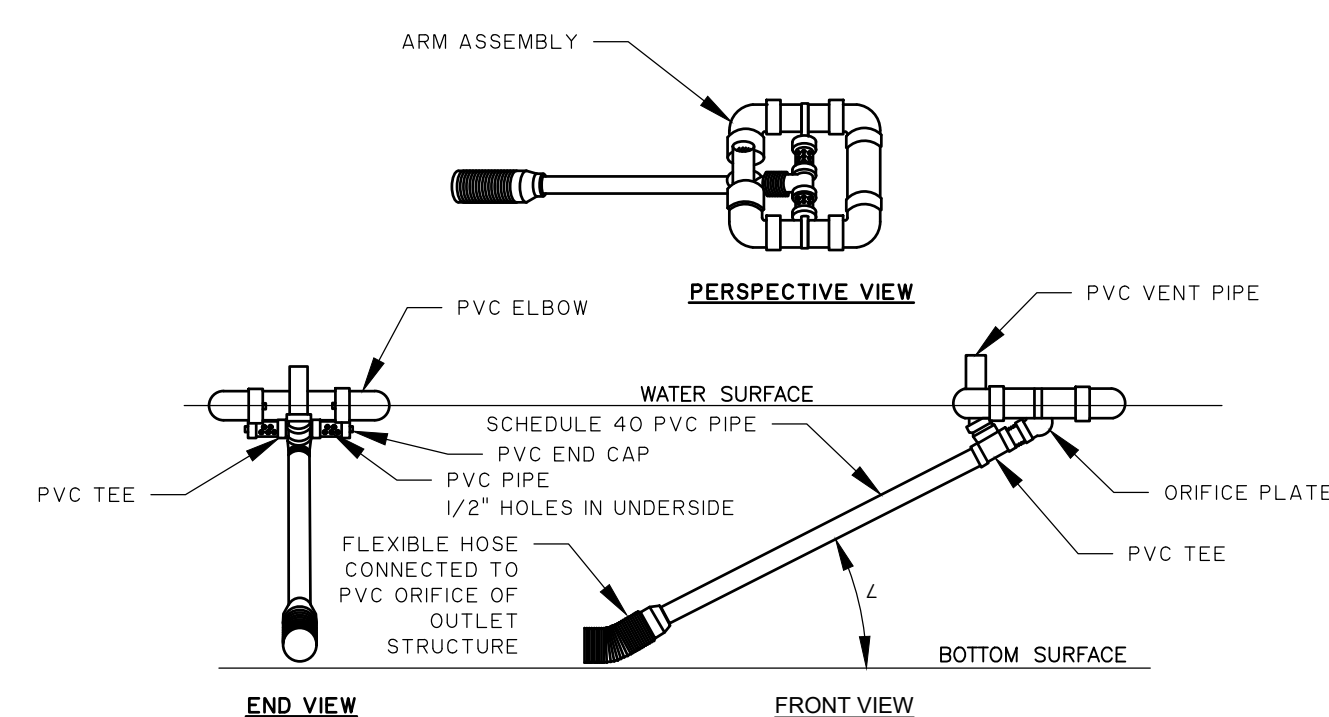
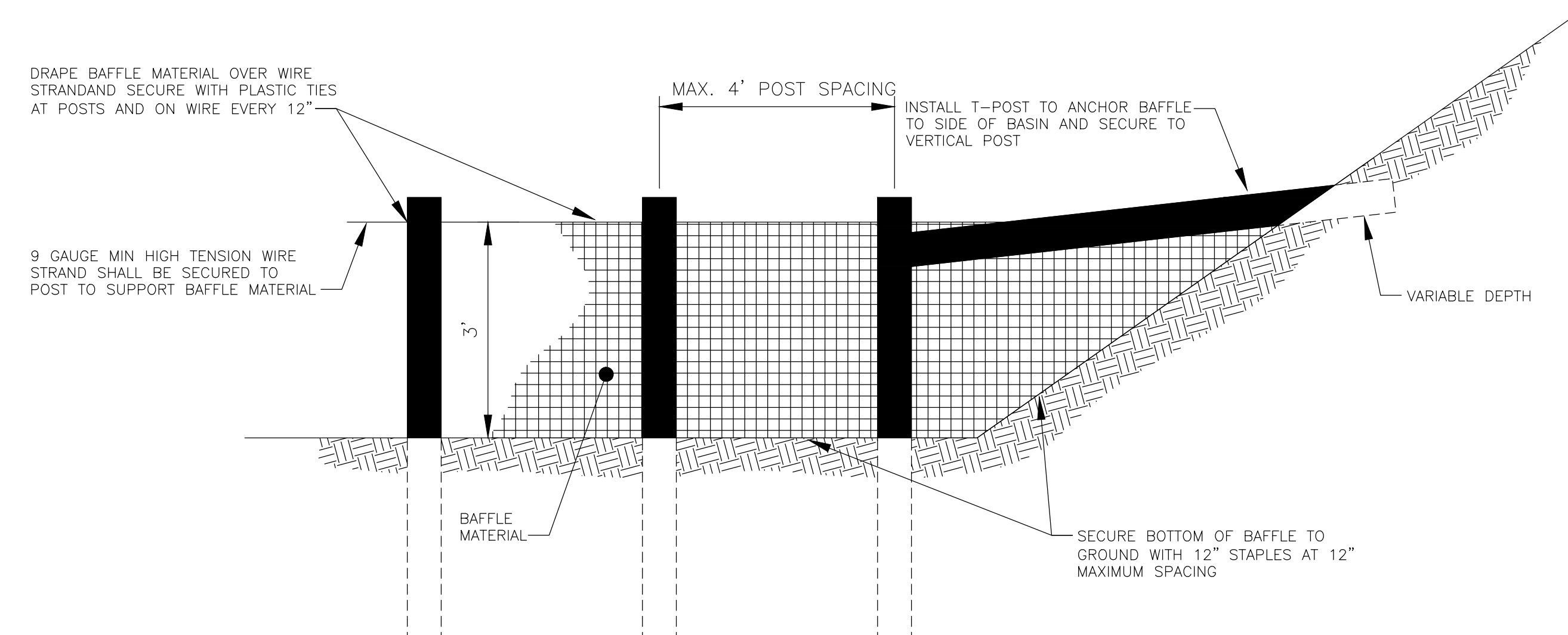
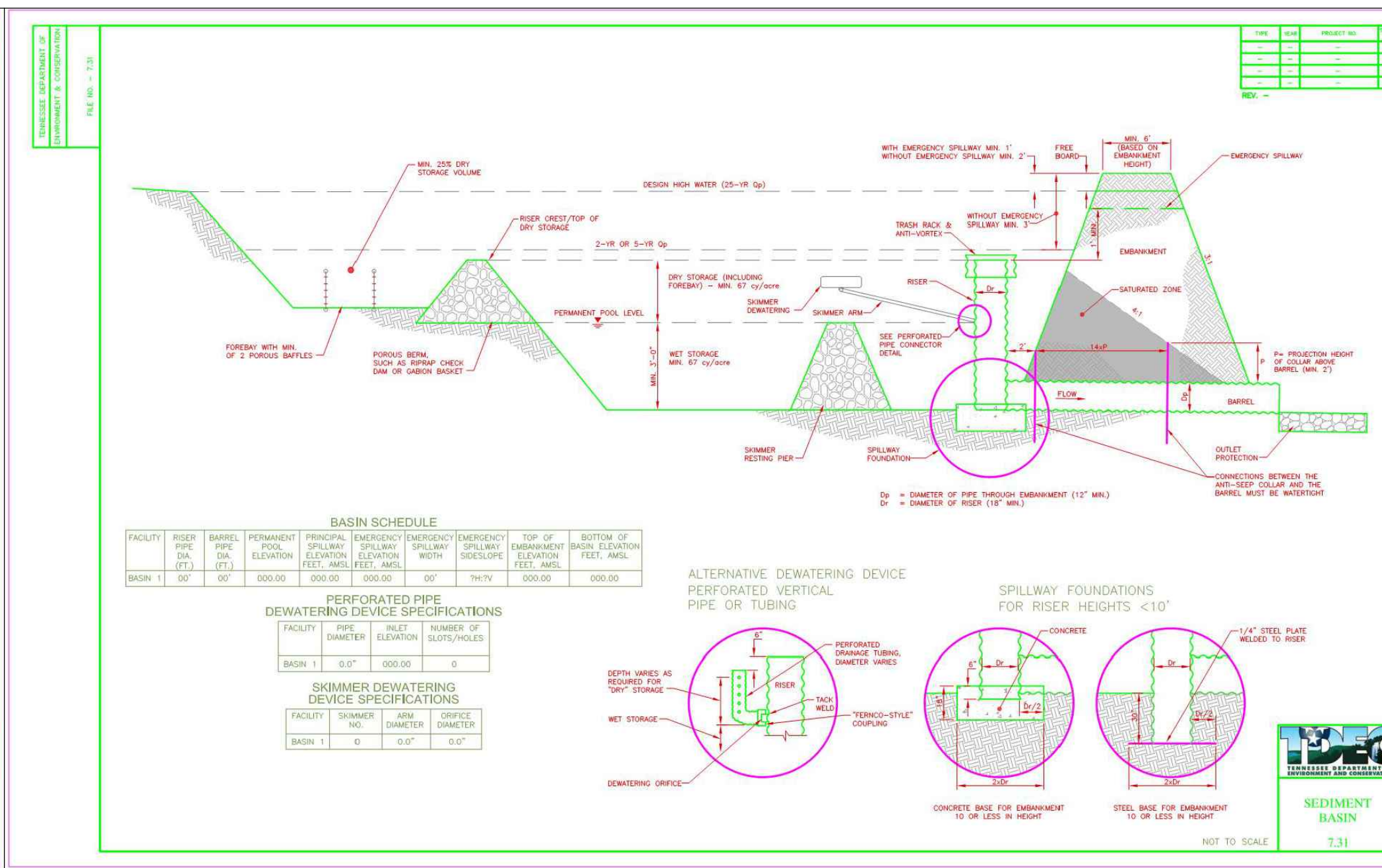
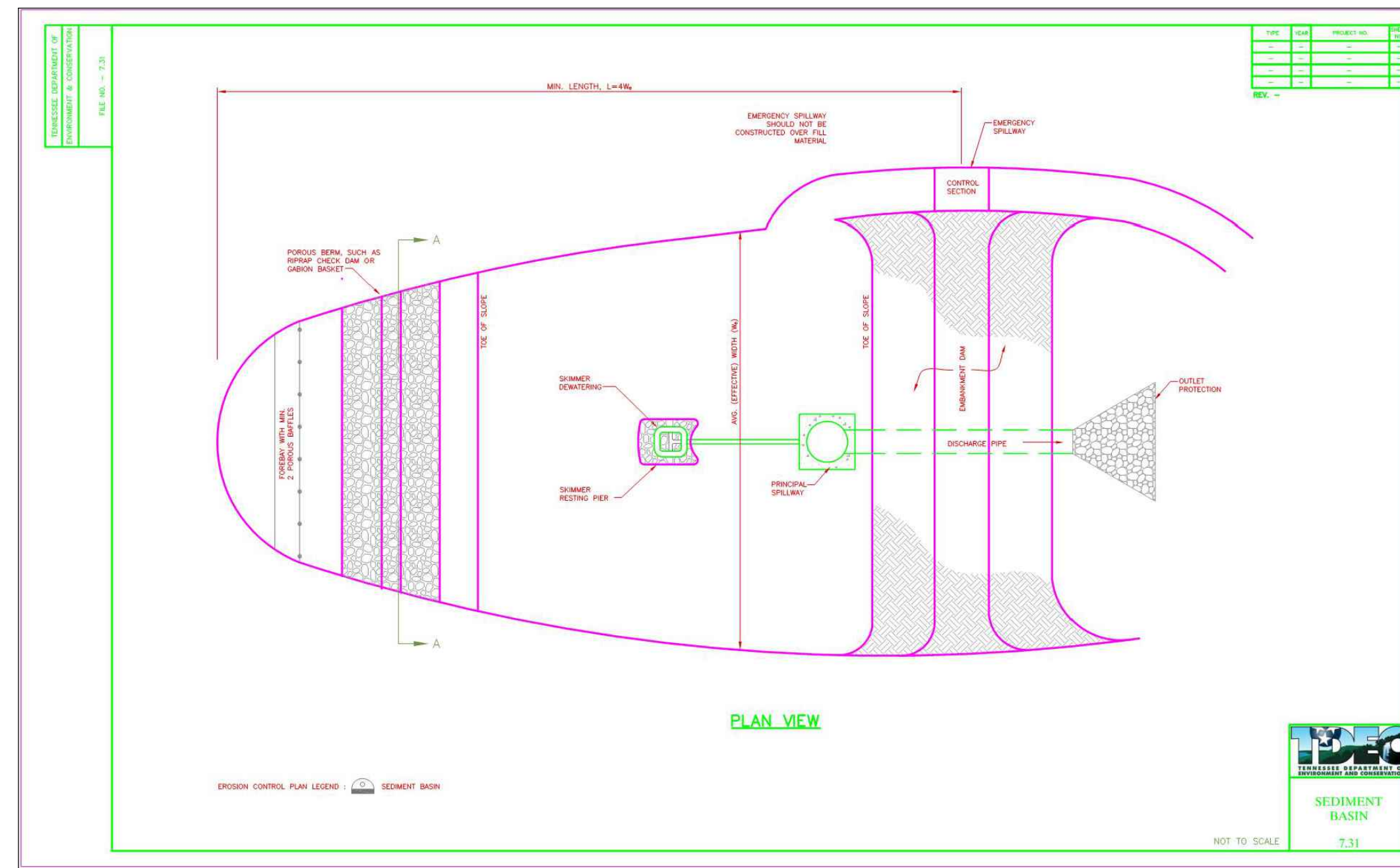
- REV. 12-18-03: MODIFIED TABLE ② AND GENERAL NOTE ①.
- REV. 7-29-04: CHANGED VALUES IN TABLE 2 FROM MEAN TO MAXY VALUES.
- REV. 4-15-06: MODIFIED FABRIC HEIGHT, ADDED NOTES ② AND ③, REVISED TABLE TITLE, REORDERED GENERAL NOTES, REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.
- REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, AND MISC. EDITS TO DRAWING.
- REV. 8-11-12: MINOR EDITS TO DRAIN PIPING

☐ MINOR REVISION -- FHWA  
APPROVAL NOT REQUIRED.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SILT FENCE  
WITH WIRE  
BACKING





NOTES:  
1. CONTRACTOR TO REMOVE SKIMMER UPON STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA AND INSTALL PERMANENT PVC ORIFICE PER OUTLET STRUCTURE DETAILS.

## SKIMMER DETAIL

NOT TO SCALE

POROUS BAFFLE

[illegible]

**THOMAS & HUTTON**  
615 Main Street • Suite 124  
Nashville, TN 37206 • 615.349.4990  
[www.thomasandhutton.com](http://www.thomasandhutton.com)

**ARCO DESIGN/BUILD**  
DAVIDSON COUNTY, TN  
**2 DELL PARKWAY**  
**EROSION CONTROL DETAIL**

JOB NO:	J-29470.0000
DATE:	8-19-21
DRAWN:	CSH
DESIGNED:	CSH
REVIEWED:	CAG
APPROVED:	CAG
SCALE:	N.T.S.

### C3.8

## Appendix B Paving, Grading, and Drainage Plan



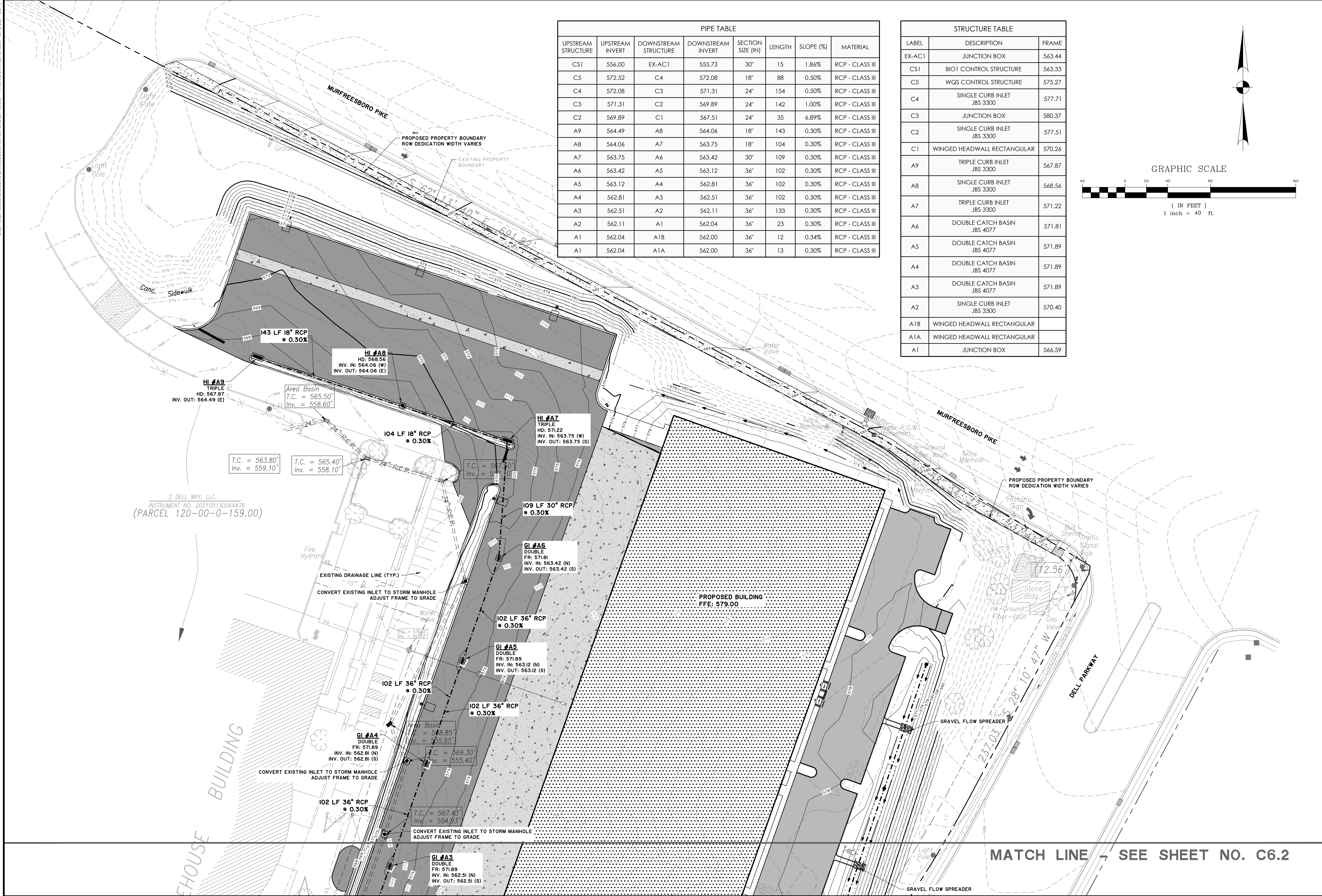






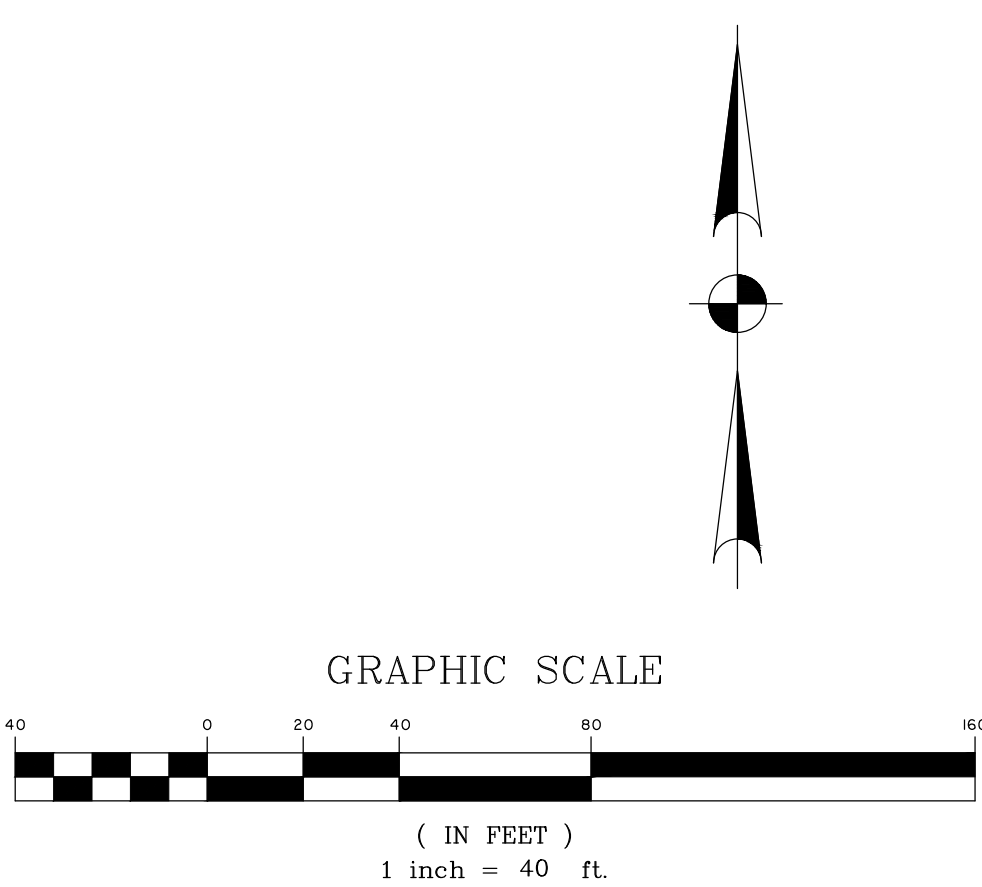


J:\2024\24170\24170.DWG (PAVING AND DRAINAGE PLANS) - 10/06/2021 - 10:08 PM



PIPE TABLE							
UPSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM STRUCTURE	DOWNSTREAM INVERT	SECTION SIZE (IN)	LENGTH	SLOPE (%)	MATERIAL
CS1	556.00	EX-AC1	555.73	30"	15	1.86%	RCP - CLASS III
C5	572.52	C4	572.08	18"	88	0.50%	RCP - CLASS III
C4	572.08	C3	571.31	24"	154	0.50%	RCP - CLASS III
C3	571.31	C2	569.89	24"	142	1.00%	RCP - CLASS III
C2	569.89	C1	567.51	24"	35	6.89%	RCP - CLASS III
A9	564.49	A8	564.06	18"	143	0.30%	RCP - CLASS III
A8	564.06	A7	563.75	18"	104	0.30%	RCP - CLASS III
A7	563.75	A6	563.42	30"	109	0.30%	RCP - CLASS III
A6	563.42	A5	563.12	36"	102	0.30%	RCP - CLASS III
A5	563.12	A4	562.81	36"	102	0.30%	RCP - CLASS III
A4	562.81	A3	562.51	36"	102	0.30%	RCP - CLASS III
A3	562.51	A2	562.11	36"	133	0.30%	RCP - CLASS III
A2	562.11	A1	562.04	36"	23	0.30%	RCP - CLASS III
A1	562.04	A1B	562.00	36"	12	0.34%	RCP - CLASS III
A1	562.04	A1A	562.00	36"	13	0.30%	RCP - CLASS III

STRUCTURE TABLE		
LABEL	DESCRIPTION	FRAME
EX-AC1	JUNCTION BOX	563.44
CS1	BIO1 CONTROL STRUCTURE	563.33
C5	WQS CONTROL STRUCTURE	575.27
C4	SINGLE CURB INLET JBS 3300	577.71
C3	JUNCTION BOX	580.37
C2	SINGLE CURB INLET JBS 3300	577.51
C1	WINGED HEADWALL RECTANGULAR	570.26
A9	TRIPLE CURB INLET JBS 3300	567.87
A8	SINGLE CURB INLET JBS 3300	568.56
A7	TRIPLE CURB INLET JBS 3300	571.22
A6	DOUBLE CATCH BASIN JBS 4077	571.81
A5	DOUBLE CATCH BASIN JBS 4077	571.89
A4	DOUBLE CATCH BASIN JBS 4077	571.89
A3	DOUBLE CATCH BASIN JBS 4077	571.89
A2	SINGLE CURB INLET JBS 3300	570.40
A1B	WINGED HEADWALL RECTANGULAR	
A1A	WINGED HEADWALL RECTANGULAR	
A1	JUNCTION BOX	566.59



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www.thomasandhutton.com

ARCO DESIGN/BUILD

DAVIDSON COUNTY, TN

2 DELL PARKWAY

PAVING & DRAINAGE PLAN

JOB NO: J-29470.0000  
DATE: 9-22-21  
DRAWN: CSH  
DESIGNED: CSH  
REVIEWED: CAG  
APPROVED: CAG  
SCALE: 1" = 40'

C6.1

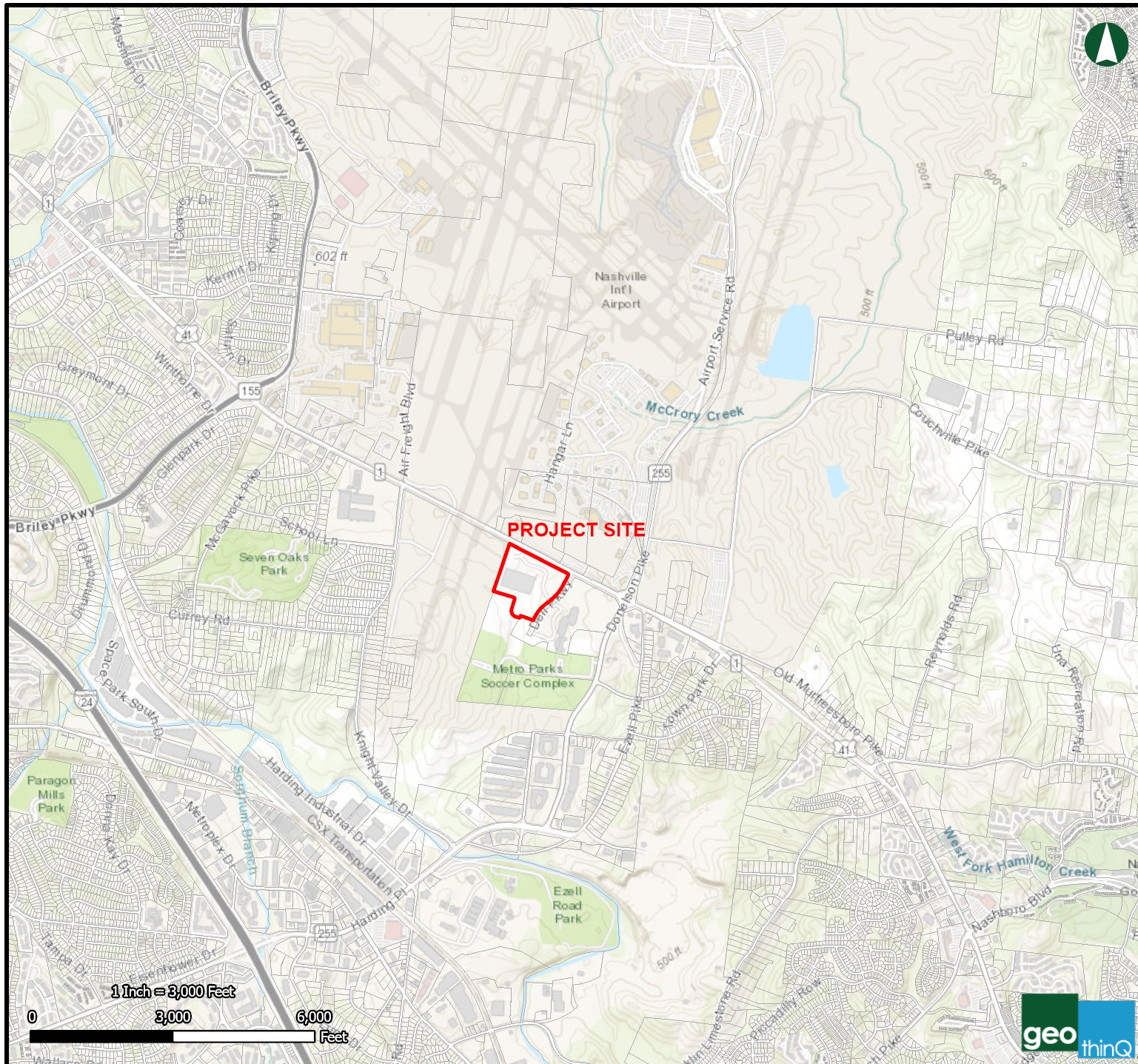






## Appendix C Location and Site Map





## 2 DELL PARKWAY

SITE LOCATION MAP

08/18/2021

 Parcels



## Appendix D Notice of Coverage

## Appendix E Construction Storm Water Inspection Certification

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)**

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

**General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)****Construction Stormwater Inspection Certification (Twice-Weekly Inspections)**

<b>Site or Project Name:</b>		<b>NPDES Tracking Number: TNR</b>
Primary Permittee Name:		Date of Inspection:
Current approximate disturbed acreage:	Has rainfall been checked/documentd daily? Yes      No	Name of Inspector:
Current weather conditions:		Inspector's Training Certification Number:

**Please check the box if the following items are on-site:**

Notice of Coverage (NOC)	Stormwater Pollution Prevention Plan (SWPPP)	Twice-weekly inspection documentation
Site contact information	Rain Gage	Off-site Reference Rain Gage Location: _____

**Best Management Practices (BMPs):****Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly:** If "No," describe below in Comment Section

1. Are all applicable EPSCs installed and maintained per the SWPPP?	Yes	No
2. Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?	Yes	No
3. Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?	Yes	No
4. Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	Yes	No
5. If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If "No," describe below the measures to be implemented to address deficiencies.	Yes	No
6. If construction activity at any location has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If "No," describe below each location and measures taken to stabilize the area(s)	Yes	No
7. Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If "No," describe below the measures to be implemented to address deficiencies.	Yes	No
8. If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If "No," describe below the measures to be implemented to address deficiencies.	N/A	Yes      No
9. Have all previous deficiencies been addressed? If "No," describe remaining deficiencies in Comment section. Check if deficiencies/corrective measures have been reported on a previous form.	Yes	No

Comment Section. If the answer is "No" for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

**Certification and Signature** (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Inspector Name and Title:	Signature:	Date:
Primary Permittee Name and Title:	Signature:	Date:



## Construction Stormwater Inspection Certification Form (Twice-Weekly Inspections)

### **Purpose of this form/ Instructions**

An inspection, as described in section 3.5.8.2. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at least twice every calendar week and documented on this form. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

As described in section 3.5.8.1 of the Permit, inspectors performing the required twice weekly inspections must have an active certification by completing the "Fundamentals of Erosion Prevention and Sediment Control Level I" course (<http://www.tnepsc.org/>). Twice weekly inspections can also be performed by: a licensed professional engineer or landscape architect; a Certified Professional in Erosion and Sediment Control (CPESC) or a person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course. A copy of the certification or training record for inspector certification should be kept on site.

Qualified personnel, (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site's drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 3.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 3.5.2 of the Permit, shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the division's form and the permittee has obtained a written approval from the division to use the alternative form. Inspection documentation will be maintained on site and made available to the division upon request. Inspection reports must be submitted to the division within 10 days of the request.

Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.

## Appendix F Notice of Termination

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)**

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243  
1-888-891-TDEC (8332)**Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)**

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

**Type or print clearly, using ink.**

<b>Site or Project Name:</b>	<b>NPDES Tracking Number: TNR</b>
Street Address or Location:	County(ies):

**Name of Permittee Requesting Termination of Coverage:**

Permittee Contact Name:	Title or Position:		
Mailing Address:	City:	State:	Zip:
Phone:	E-mail:		

**Check the reason(s) for termination of permit coverage:**

<input type="checkbox"/>	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
<input type="checkbox"/>	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

**Certification and Signature:** (must be signed by president, vice-president or equivalent ranking elected official)

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type):	Signature:	Date:
---------------------------------	------------	-------

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	1301 Riverfront Parkway, Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601