### SWPPP INDEX OF SHEETS

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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

### 1. SWPPP REQUIREMENTS (3.0)

- 1.1. HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.1.1)?
  - YES (CHECK ALL THAT APPLY BELOW) OR INO
    - CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
    - □ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
    - HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE
- 1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (3.1.1)? YES ☐ NO 🛛

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? YES NO

- 1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (5.4.1)? ☐ YES (CHECK ALL THAT APPLY BELOW) ⊠ NO
  - WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
  - □ EXCEPTIONAL TENNESSEE WATERS

IF YES TO SECTION 1.3, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.4.1.b)?

- ☐ YES (CHECK ALL THAT APPLY BELOW) ☐ NO
  - CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
  - □ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☐ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

#### 2. SITE DESCRIPTION (3.5.1)

- 2.1. PROJECT LIMITS (3.5.1.h): REFER TO TITLE SHEET
- 2.2. PROJECT DESCRIPTION (3.5.1.a): TITLE: SIA Bristol Metals COUNTY: Sullivan PIN: 123032.00
- 2.3. SITE MAP(S) (2.6.2.): REFER TO TITLE SHEET
- 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) <u>12-13</u>, DRAINAGE MAP SHEET(S) <u>N/A</u>, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.3.
- 2.5. MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY):
  - CLEARING AND GRUBBING **EXCAVATION** CUTTING AND FILLING

### S FINAL GRADING AND SHAPING UTILITIES OTHER (DESCRIBE):

- 2.6. TOTAL PROJECT AREA (3.5.1.c): 7.29 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 5.313 ACRES
- 2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
- 2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? IF YES, LIST THE CORRESPONDING PLAN SHEET: \_

2.10. WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?

YES \_\_\_\_\_ \_(DATE) 🖾 NO IF ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2.2)

2.11. SOIL PROPERTIES (3.5.1.f) (4.1.1).

SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

| SOIL PROPERTIES   |     |              |                          |  |  |  |  |
|-------------------|-----|--------------|--------------------------|--|--|--|--|
| PRIMARY SOIL NAME | HSG | % OF<br>SITE | ERODIBILITY<br>(k value) |  |  |  |  |
| CeC2              | С   | 14.6         | .37                      |  |  |  |  |
| CeD3              | С   | 40.9         | .28                      |  |  |  |  |
| St                | С   | 19.7         | .37                      |  |  |  |  |
| TbD2              | С   | 22.0         | .43                      |  |  |  |  |
| TbE2              | С   | 2.8          | .43                      |  |  |  |  |
|                   |     |              |                          |  |  |  |  |

- 2.12. IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
  - 2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? YES NO; AND
  - 2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? ☐YES ☐ NO ☐ N/À (TDOT SP107L WILL BE APPLIED.)

2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.g).

| RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS |          |                                    |              |             |  |  |
|---|----------|------------------------------------|--------------|-------------|--|--|
| AREA TYPE                                   | AREA(AC) | PERCENTAGE<br>OF TOTAL<br>AREA (%) | RUNOFF<br>CN | C<br>FACTOR |  |  |
| IMPERVIOUS                                  | 0.042    | 0.8                                | 98           |             |  |  |
| PERVIOUS                                    | 5.271    | 99.2                               | 70           |             |  |  |
|   |          |                                    |              |             |  |  |
| WEIGHTED CURVE                              | 70.2     |                                    |              |             |  |  |

| RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS |                    |       |              |             |    |  |
|--|--------------------|-------|--------------|-------------|----|--|
| AREA TYPE  | AREA TYPE AREA(AC) |       | RUNOFF<br>CN | C<br>FACTOR |    |  |
| IMPERVIOUS   | 1.63               | 30.7  | 98           |             |    |  |
| PERVIOUS   | 3.683              | 3.683 | 3.683        | 69.3        | 70 |  |
|  |                    |       |              |             |    |  |
| WEIGHTED CURVE                                       | 78.6               |       |              |             |    |  |

|  |   |  |  |  | TYPE                         | YEAR      | PROJECT NO.           | SHEET             |
|--|---|--|--|--|------------------------------|-----------|-----------------------|-------------------|
|  |   |  |  | t  | Const.                       | 2017      | 82953-3533-04         | <u>но.</u><br>S-1 |
|  |   |  |  | [  |                              |           |                       | 1                 |
| 3. ORDER OF CONSTRUCTION A<br>CONSTRUCTION SHALL BE<br>EXPOSURE TIME OF GRADEL<br>AND MINIMIZE SOIL COMPAC<br>CONTRACTOR'S PLAN FOR T<br>THE PLAN FOR STAGING OF<br>HAS BEEN ACCEPTED BY T<br>SHALL INCORPORATE AND<br>CONSTRUCTION ACTIVITIES<br>EPSC PLAN CONTAINED WITH | SEQUENCED AI<br>O OR DENUDED S<br>CTION. NO WORI<br>HE STAGING OF<br>TEMPORARY AN<br>HE ENGINEER.<br>SUPPLEMENT, A<br>AND THE BASIC I | ND STAC<br>SOIL ARE<br>( SHALL<br>THEIR (<br>D PERM/<br>THE COM<br>S ACCE<br>EPSC DE | GED TO: M<br>AS, PRESEF<br>BE STARTE<br>OPERATION:<br>ANENT EPS(<br>NTRACTOR'S<br>PTABLE, TH<br>VICES DEPI | RVE TOPSOII<br>ED UNTIL TH<br>S, INCLUDIN<br>C MEASURES<br>S EPSC PLA<br>E ORDER O | L,<br>E<br>G<br>S,<br>N<br>F |           |                       |                   |
| 3.1. SPECIAL SEQUENCING I  |   |  | EETS <u>N/A</u> )  |  |                              |           |                       |                   |
| <ul><li>3.2. INSTALL STABILIZED CO</li><li>3.3. INSTALL PERIMETER PF<br/>THE SITE.</li></ul>   |   |  | OFF SHEET  | FLOWS FRO  | Μ                            |           |                       |                   |
| 3.4. INSTALL INITIAL EPSC<br>EXCAVATION, GRADING<br>FILLING, OR ANY OTHEF<br>MAY BE NECESSARY TO   | , CULVERT OR B<br>R EARTHWORK C   | RIDGE CO<br>CCURS,   | ONSTRUCTI<br>EXCEPT AS   | ON, CUTTING  | G,                           |           |                       |                   |
| 3.5. PERFORM CLEARING A<br>TO GRADING OR EAF<br>PRACTICES BELOW.).   | ,   |  |  |  |                              |           |                       |                   |
| 3.6. REMOVE AND STORE TO   |   |  | 0 05 001   |  |                              |           |                       |                   |
| 3.7. STABILIZE DISTURBED<br>STAGE AND/OR PHASE (   |   | 14 DAY   | S OF COM   | PLETING AN   | Y                            |           |                       |                   |
| 3.8. INSTALL UTILITIES,<br>STRUCTURES.   | STORM SEWE  | RS, CU   | LVERTS A   | ND BRIDG   | E                            |           |                       |                   |
| 3.9. INSTALL INLET AND CU<br>PLACE AND CAPABLE O   |   |  | CE STRUCT  | URES ARE I   | N                            |           |                       |                   |
| 3.10. PERFORM FINAL GRADI  |   |  |  |  |                              |           |                       |                   |
| 3.11. COMPLETE FINAL PAVIN<br>3.12. INSTALL TRAFFIC CONT   |   |  |  |  |                              |           |                       |                   |
| 3.13. COMPLETE FINAL STAB  | ILIZATION (TOPS   |  |  | CH, EROSIO   | N                            |           |                       |                   |
| CONTROL BLANKET, SO<br>3.14. REMOVE TEMPORARY<br>SEDIMENT FROM AREAS   | EROSION CONTRACT  | TABLISHE   |  |  |                              |           |                       |                   |
| UNIFORM PERMANENT<br>3.15. RE-STABILIZE AREAS DI   |   |  | CTIVITIES  |  |                              |           |                       |                   |
|  |   |  | onvineo.   |  |                              |           |                       |                   |
| 4. <u>STREAM, OUTFALL, WETLAN</u><br>4.1. STREAM INFORMATION   |   | OLOGY I  | NFORMATIC  | <u>N</u>   |                              |           |                       |                   |
| 4.1.1. WILL CONSTRU<br>SEDIMENT COI  | JCTION AND/OF<br>NTROLS IMPAC<br>S? □YES ☑ N  | T ANY  |  |  |                              |           |                       |                   |
|  | IPACT(S) HAVE<br>CTS AND HAVE<br>TS.  |  |  |  |                              |           |                       |                   |
| EQUAL TO 1 F   | THE RECEIVING<br>LOW MILE DOW<br>LASSIFIED BY 1   | /N GRAE  | DIENT OF T   | HE PROJEC  | т                            |           |                       |                   |
| 🔲 303d WITH U  | NAVAILABLE PAF  | RAMETER  | S FOR SILT   | ATION  |                              |           |                       |                   |
| 303d WITH U  | NAVAILABLE PAF  | AMETER   | S FOR HABI   | ТАТ  |                              |           |                       |                   |
|  | AL TENNESSEE W  | /ATERS (   | ETW)   |  |                              |           |                       |                   |
| 4.1.3. RECEIVING WAT   | ERS OF THE STA  | ATE (3.5.1   | .k).   |  |                              |           |                       |                   |
| RECEIVING WA   | RECEIVING WATERS OF THE STATE INFORMATION   |  |  |  |                              |           |                       |                   |
| TDOT NAME OF<br>STATE WATER RECEIVING<br>LABEL FROM STATE WATER<br>EBR   | 303d WITH<br>UNAVAILABLE<br>PARAMETERS<br>FOR<br>SILTATION OR<br>HABITAT<br>ALTERATION<br>(YES OR NO)                                 | ETW<br>(YES<br>OR<br>NO)   | LOCATED<br>WITHIN<br>PROJECT<br>LIMITS<br>(YES OR<br>NO)   | LOCATED<br>WITHIN ≤<br>FLOW MIL<br>DOWN<br>GRADIENT<br>PROJECT LIN<br>(YES OR N    | 1<br>E<br>OF<br>MITS         | 2.5 m/201 | STATE OF TENNESSEE    |                   |
| STR-1 N/A  | No  | No   | No   | Yes  |                              | DEPA      | RTMENT OF TRANSPORT   | ATION             |
|  |   |  |  |  |                              | 100       | TORMWATE<br>POLLUTION | 201               |

PREVENTION PLAN

|  | RECEIVING WATERS OF THE STATE INFORMATION |  |                          |  |  |  |  |
|--|---|--|--------------------------|--|--|--|--|
| TDOT<br>STATE WATER<br>LABEL FROM<br>EBR | NAME OF<br>RECEIVING<br>STATE WATER       | UNAVAILABLE<br>PARAMETERS<br>FOR<br>SILTATION OR<br>HABITAT<br>ALTERATION<br>(YES OR NO) | ETW<br>(YES<br>OR<br>NO) | LOCATED<br>WITHIN<br>PROJECT<br>LIMITS<br>(YES OR<br>NO) | LOCATED<br>WITHIN ≤ 1<br>FLOW MILE<br>DOWN<br>GRADIENT OF<br>PROJECT LIMITS<br>(YES OR NO) |  |  |
|  |   |  |                          |  |  |  |  |
|  |   |  |                          |  |  |  |  |
|  |   |  |                          |  |  |  |  |

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2) ☐ YES ⊠ NO

#### BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) \_\_\_\_\_. IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER

60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION STE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES. BUT MUST BE APPLIED INDEPENDENTLY.

□ 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

- 4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0) □ YES ⊠ NO
- 4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) ☐ YES ⊠ NO IF YES, EXISTING CONDITIONS DESCRIPTION:
  - \_\_\_\_\_
- 4.1.7. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2.)
- 4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.
- 4.1.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL

RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? □ YES ☑ NO

| RECEIVING WOTUS (EPHEMERAL) INFORMATION |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
| TDOT<br>WOTUS<br>LABEL                  | LOCATED WITHIN PROJECT<br>LIMITS<br>(YES OR NO) | LOCATED WITHIN 15-FT OF THE<br>PROJECT LIMITS<br>(YES OR NO) |  |  |  |  |
|   |   |  |  |  |  |  |
|   |   |  |  |  |  |  |

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? ☐ YES ☐ NO

IF YES, A 15 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING EPHEMERAL STREAM IDENTIFIED AS A WOTUS (EPHEMERAL) BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) OR THE ENVIRONMENTAL PROTECTION AGENCY SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE.

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S)

- 4.3. OUTFALL INFORMATION
  - 4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-<u>8</u> FOR OUTFALL INFORMATION.
  - 4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)?  $\boxtimes$  YES  $\hfill \label{eq:2.1}$  NO
  - 4.3.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? ⊠YES □ NO
  - 4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA? ☑ YES □ NO □ N/A

4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? ☐ YES ☐ NO ⊠ N/A

4.3.6. A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3) OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT

#### CONTROL STABILIZA

IN BOTH IN DESIGN DIVIS WITH ANY RE THE OUTFALL

4.4. WETLAND INFORMATI WILL CONSTRUCTION IMPACT ANY WETLAN

> IF YES, THE STRUCTU TOTAL PROJECT IMPA

### WE TDOT WETLAND LABEL FROM STATION LT OR RT

4.5. TOTAL MAXIMUM DAII 4.5.1. IS THIS PRO

- MAINTAINS A HABITAT ALTE
- 4.5.2. IF YES, IS SUBWATERSH ⊠ YES □ N
- 4.5.3. IF YES, DOES 303(d) LISTED
  - 🗆 YES 🖾 NO
- 4.5.4. IF YES, HAS A SUBMITTED/R
- 4.6. ECOLOGY INFORMATI DOES THE TDOT E SPECIAL NOTES TO BU ☐ YES ⊠ NO

IF YES, THEY HAVE BI

4.7. ENVIRONMENTAL COM ARE THERE ANY NOTE ☑ YES □ NO IF YES, THEY HAVE BE

### 5. EROSION PREVENTION ANI

- 5.1. EPSC MEASURES MUS CONTROL STORMWA MINIMIZE EROSION (4.
- 5.2. EPSC MEASURES INCLUDING BOTH PEA MINIMIZE EROSION BANKS. (4.1.1)
- 5.3. HAVE THE CONTROL SLOPE OF THE DISTU ☐ YES ☐ NO
- 5.4. THE CONTROL MEAS THE 2-YEAR, 24 HOUR
- 5.5. ARE THE LIMITS OF PLANS (3.5.1.h)?
- 5.6. AREAS TO BE UNDIS BEFORE CONSTRUCT
- 5.7. UNLESS OTHERWISE NOT CLEAR/DISTURB ROW/ EASEMENT LIN

TENNESSEE DESIGN DIV

|  |  |   |                              | TYPE   | YEAR | PROJECT NO.                                 | SHEET<br>NO. |  |
|--|--|---|------------------------------|--------|------|---|--------------|--|
|  |  |   |                              | Const. | 2017 | 82953-3533-04                               | 8-2          |  |
|  |  |   |                              |        |      |   | _            |  |
|  | EASURES, SHAL<br>IN OF THE SITE. (   | L BE PROVIDEI<br>5.4.1.g).                        | D UNTIL FINA                 | AL.    |      |   |              |  |
| SION   | STANCES, THE ENVIRONMENTAL AND ROADWAY<br>SIONS MAY BE CONTACTED TO REVIEW AND CONCUR<br>EVISION OF THE SWPPP BEFORE DISTURBANCE OF<br>PROCEEDS. |   |                              |        |      |   |              |  |
|  | D/OR EROSION A   | ND SEDIMENT CO                                    | ONTROLS                      |        |      |   |              |  |
|  |  | ES HAVE BEEN IN<br>ATER QUALITY PE                |                              | IE     |      |   |              |  |
| WET  | LAND INFORMAT  | ION   |                              |        |      |   |              |  |
| ON   | TO STATION<br>LT OR RT   | TEMPORARY<br>IMPACTS (AC)                         | PERMANENT<br>IMPACTS<br>(AC) |        |      |   |              |  |
|  |  |   |                              | _      |      |   |              |  |
|  |  |   |                              |        |      |   |              |  |
| OJE<br>AN<br>FERA<br>O   | CT LOCATED IN<br>EPA APPROVED<br>TION?   | FORMATION (3.5.1<br>I A HUC-8 WAT<br>D TMDL FOR S | ERSHED THA                   | ID     |      |   |              |  |
|  |  | LOCATED WITH<br>LOAD ALLOCATIO                    |                              | 12     |      |   |              |  |
|  |  | VE A DIRECT DIS<br>TION OR HABITAT                |                              |        |      |   |              |  |
|  | ummary of the<br>Eived?  | E CONSULTATION                                    | N LETTER BEE                 | N      |      |   |              |  |
| ENV  | (3.5.5.e)<br>IRONMENTAL B<br>DDED TO THE PL  | OUNDARIES REI<br>AN SHEETS?                       | PORT SPECIF                  | Υ      |      |   |              |  |
| BEEN   | I INCLUDED ON P  | LAN SHEET(S)                                      | <u></u>                      |        |      |   |              |  |
|  | TMENTS<br>ON THE ENVIRON   | IMENTAL COMMIT                                    | MENT SHEET                   | ?      |      |   |              |  |
| BEEN   | I INCLUDED ON P  | LAN SHEET(S) <u>1B</u>                            | <u>.</u>                     |        |      |   |              |  |
|  |  | OL (EPSC) MEAS                                    | . ,                          |        |      |   |              |  |
|  | R VOLUME AND   | NSTALLED AND I<br>VELOCITY WITHI                  |                              |        |      |   |              |  |
| EAK  | FLOWS AND TO   | STORMWATER<br>TAL STORMWATE<br>EAM CHANNELS,      | R VOLUME, T                  | Ó      |      |   |              |  |
|  | L MEASURES BEEN DESIGNED PER THE SIZE AND<br>JRBED DRAINAGE AREA (3.5.3.3)?  |   |                              |        |      |   |              |  |
|  | ES HAVE, AT A I<br>ORM EVENT (3.5.   | MINIMUM, BEEN<br>3.3, 5.4.1.a).                   | DESIGNED FC                  | R      |      |   |              |  |
| F DISTURBANCE CLEARLY MARKED ON THE EPS( YES $\square$ NO              |  |   |                              |        |      |   |              |  |
| STURBED SHALL BE CLEARLY MARKED IN THE FIELD<br>TION ACTIVITIES BEGIN. |  |   |                              |        | DEF  | STATE OF TENNESSEE                          | ON           |  |
| 3 AN   |  | ANS, THE CONTI<br>15 FEET FROM S<br>SSER.         |                              |        |      | TORMWATE<br>POLLUTION<br>PREVENTION<br>PLAN |              |  |
|  |  |   |                              |        | 1    | 10 10 10 10 10 10 10 10 10 10 10 10 10 1    | _            |  |

- 5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)? YES ⊠ NO □ (IF YES, CHECK ONE BELOW)
  - 5.9.1. DROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
  - 5.9.2. X PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")? ☐ YES ☐ NO 🛛 N/A
- 5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1,j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET <u>S-7</u>. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET <u>8</u> HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.b).
- 5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.
- 5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
- 5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.). INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE 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). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.
- 5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- 5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET <u>2A</u> (3.5.3.1.n).
- 5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).
- 5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

- 5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).
- 5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.
- 5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.h).
- 5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).
- 5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE
- 5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- 5.30. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR pH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)
- 5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

### 6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.a)?  $\Box$  YES  $\boxtimes$  NO

IF YES, THE FOLLOWING NOTES APPLY:

- 6.1. POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:
  - 6.1.1. CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.
  - 6.1.2. ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.

- 6.1.3. ANIONIC AND OF 10% TO 55 24 MG/MOLES.
- 6.1.4. PAM MIXTURE
- 6.1.5. PAM SHALL ADDITIVES.
- 6.2. ALL PHYSICAL AND/OI APPLIED IN ACCORD
- 6.3. FLOCCULANTS SHALL OCCUPATIONAL SAFET SAFETY DATA SHEET ACCORDANCE WITH THE SPECIFIED USE C LAWS, RULES AND REC
- 6.4. ALL VENDORS AND SI SUPPLY A WRITTEN TO TOXICITY TESTS WHI ACCEPTABLE TOXICIT' REQUIREMENTS FOR STANDARDS. WHOLE REQUIREMENT AS PR POTENTIALS HAVE BEE
- 6.5. DO NOT APPLY FLOC ANY STREAMS, WETL LOCATED ON OR AD APPLY FLOCCULANTS SEDIMENT PONDS OF INTO A STREAM, WETL NOT APPLY FLOCCUL WHERE RUNOFF LEAV
- 6.6. BEFORE FLOCCULANT SITE-SPECIFIC SOIL S MANUFACTURER OR OPTIMUM FLOCCULA FLOCCULANT EFFICA SAMPLES WILL NEED WILL BE ACCESSED APPLIED ON A CON MANUFACTURER'S R APPLICATION METHO TARGET AREA. DO N DIRECTLY TO STORM OTHER WATER RESOU
- 6.7. FLOCCULANT POWDE MECHANICAL SPREAU FLOCCULANT MAY BE OR OTHER SOIL AME MAY ALSO BE APPLIE SEEDING. APPLICATIO TO THE TARGET AREA
- 6.8. MANUFACTURER'S GU AND SOCK SPACING O USED ON A CONSTR MUST BE OBTAINED REPRESENTATIVE, TO APPLICATION RATE. DEPENDENT ON SOIL FROM EACH SOIL EXCAVATION. FLOCCU SITE IN ACCORDANC APPLICATION OR DOS

### 7. UTILITY RELOCATION

ARE UTILITIES INCLUDED I

- IF YES, THE FOLLOWING A
- 7.1. STORMWATER WHICH PUMPED INTO A DEV AND TREATED PRIOR
- 7.2. SILT FENCE SHALL I STOCKPILED SOIL. CONVEYANCES SHAL AND STABILIZED BY T

|   | CI_DECENS             |      | 1                                   | Course of    |
|---|-----------------------|------|-------------------------------------|--------------|
|   | TYPE                  | YEAR | PROJECT NO.                         | SHEET<br>NO. |
|   | Const.                | 2017 | 82953-3533-04                       | 6-3          |
|   | 5                     |      |                                     | -            |
| D NEUTRALLY CHARGED PAM SHALL HAVE A DENSIT<br>5% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 T<br>S.  |                       |      |                                     |              |
| ES SHALL BE NON-COMBUSTIBLE.  |                       |      |                                     |              |
| CONTAIN ONLY MANUFACTURER-RECOMMENDE  | D                     |      |                                     |              |
| OR CHEMICAL TREATMENT WILL BE RESEARCHE<br>RDANCE WITH MANUFACTURE'S GUIDELINES AN<br>ON THE EPSC PLANS (3.5.3.1.b).  |                       |      |                                     |              |
| ALL BE HANDLED IN ACCORDANCE WITH AI<br>ETY AND HEALTH ADMINISTRATION (OSHA) MATERIA<br>T (MSDS) REQUIREMENTS AND SHALL BE APPLIED<br>THE MANUFACTURER'S RECOMMENDATIONS FC<br>CONFORMING TO ALL FEDERAL, STATE AND LOCA<br>EGULATIONS.   | AL<br>IN<br>DR        |      |                                     |              |
| SUPPLIERS OF FLOCCULANTS SHALL PRESENT OF<br>TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC<br>HICH VERIFIES THAT THE FLOCCULANT EXHIBITS<br>ITY PARAMETERS WHICH MEET OR EXCEED THE EPA<br>OR THE STATE AND FEDERAL WATER QUALITY<br>E EFFLUENT TESTING DOES NOT MEET THIS<br>PRIMARY REACTIONS HAVE OCCURRED AND TOXIC<br>EEN REDUCED.  | 2<br>8<br>4<br>(<br>8 |      |                                     |              |
| CCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF<br>TLANDS, OR OTHER NATURAL WATER RESOURCE<br>DJACENT TO THE CONSTRUCTION SITE. DO NOT<br>TS DIRECTLY INTO WATERS CONTAINED WITHIN<br>OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY<br>TLAND, OR OTHER NATURAL WATER RESOURCE. DC<br>JLANTS IMMEDIATELY AT A STORMWATER OUTFALL<br>AVES THE PROJECT LIMITS.   | E<br>F<br>N<br>(<br>) |      |                                     |              |
| NTS CAN BE USED ON A CONSTRUCTION PROJECT<br>SAMPLES MUST BE OBTAINED AND TESTED BY THE<br>R THEIR REPRESENTATIVE, TO IDENTIFY THE<br>LANT TYPE AND APPLICATION RATE. SINCE<br>ACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL<br>D TO BE OBTAINED FROM EACH SOIL HORIZON THAT<br>DURING EXCAVATION. FLOCCULANTS SHOULD BE<br>DNSTRUCTION SITE IN ACCORDANCE WITH THE<br>RECOMMENDED APPLICATION OR DOSAGE RATE<br>OD SHALL ENSURE UNIFORM COVERAGE TO THE<br>NOT APPLY EMULSION FORMS OF FLOCCULANTS<br>WWATER RUNOFF OR TO STREAMS, WETLANDS, OF<br>DURCES DUE TO SURFACTANT TOXICITY. |                       |      |                                     |              |
| DER MAY BE APPLIED BY A HAND SPREADER OR A<br>ADER. IF APPROVED BY THE MANUFACTURER<br>E MIXED WITH DRY SILICA SAND, FERTILIZER, SEED<br>IENDMENTS TO AID IN SPREADING. FLOCCULANTS<br>IED WITH A WATER TRUCK OR AS PART OF HYDRO<br>FION METHOD SHALL ENSURE UNIFORM COVERAGE<br>(A.   |                       |      |                                     |              |
| GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG<br>CONFIGURATIONS. BEFORE FLOCCULANTS CAN BE<br>RUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES<br>AND TESTED BY THE MANUFACTURER OR THEIF<br>TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND<br>E. SINCE FLOCCULANT EFFICACY IS HIGHLY<br>L TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED<br>HORIZON THAT WILL BE ACCESSED DURING<br>CULANTS SHOULD BE APPLIED ON A CONSTRUCTION<br>ICE WITH THE MANUFACTURER'S RECOMMENDED<br>ISAGE RATE.  |                       |      |                                     |              |
| IN THE CONTRACT? 🗌 YES 🛛 NO   |                       |      |                                     |              |
| CH COLLECTS IN THE UTILITY TRENCH SHALL E<br>WATERING STRUCTURE OR SEDIMENT FILTER BA   |                       |      |                                     | _            |
| R TO DISCHARGE.<br>BE INSTALLED ON THE DOWNGRADIENT SIDE C  |                       | DEF  | STATE OF TENNESSEE                  | NON          |
| ANY TRENCHING ACROSS WET WEATHE<br>ALL BE DONE DURING DRY CONDITIONS, REMOVE<br>THE END OF THE WORK DAY.  |                       | 23   | TORMWATE<br>POLLUTION<br>PREVENTION |              |

PLAN

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- 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
  - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
  - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAI
  - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

#### 8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (3.5.8)
  - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):
    - 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

- 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
- 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
- 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
- 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).
- 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
- 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
- 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
- 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR")
- 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).
- 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL

### CONTRACT

- OR RULES (3.5.8.2.h).
- 8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)

- OF THE CONTRACTOR
- 8.3.3. (3582e)

- HEIGHT OF THE DAM.
- 8.3.7. OF THE STATE/U.S.
  - REMOVED (3.5.3.1.f).
- 8.3.9.

### 9. SITE ASSESSMENTS (3.1.2)

GUIDELINES.

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BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION 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

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY

UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS. ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).

DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (1/2) THE

> SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS

8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE

ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.



QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE

### 10. STORMWATER MANAGEMENT (3.5.4)

- 10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.
- 10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4): N/A
- 10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)

CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

☑ LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES

CONCRETE WASHOUT

☑ PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)

MINERAL AGGREGATES, ASPHALT

🖾 EARTH

LIQUID TRAFFIC STRIPING MATERIALS, PAINT

🖾 ROCK

CURING COMPOUND

EXPLOSIVES

OTHER \_\_\_\_\_

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. HAZARDOUS WASTE (3.5.5.c) (7.9)

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL

10.6. SANITARY WASTE (3.5.5.b)

PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

FERTILIZERS AND LIME

PESTICIDES AND/OR HERBICIDES

DIESEL AND GASOLINE

MACHINERY LUBRICANTS (OIL AND GREASE)

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

#### 11. NON-STORMWATER DISCHARGES (3.5.9)

- 11.1. THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT (CHECK ALL THAT APPI Y)
  - DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER.

- WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE.
- ☑ WATER USED TO CONTROL DUST. (3.5.3.1.n)
- D POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE.
- UNCONTAMINATED GROUNDWATER OR SPRING WATER.
- ☐ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS.

□ OTHER:

- 11.2. ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 11.3. THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.
- 11.4. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS
- 11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED (3.5.1.i)?

□ YES 🖾 NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER:

#### 12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1)

- 12.1. SPILL PREVENTION (3.5.5.c)
  - 12.1.1. CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.
  - 12.1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW.
  - 12.1.3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

ONLY NEEDED PRODUCTS WILL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED.

12.3. PRODUCT SPECIFIC PRACTICES

12.3.1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

12.4. SPILL MANAGEMENT

IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY:

- **CLEANUP**
- STABILIZED.

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MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL pH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

12.3.2. FERTILIZERS: FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY THE SOIL ANALYSIS OR TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS

12.3.3. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

12.3.4. CONCRETE TRUCKS: CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

12.4.1. FOR ALL HAZARDOUS MATERIALS STORED ON SITE. THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.2. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.

12.4.3. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.4. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND

12.4.5. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN

12.4.6. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE

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MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES

- 12.4.7. IF A SPILL OCCURS THE CONTRACTOR'S SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT CONSTRUCTION ENGINEER AND/OR PROJECT ENGINEER. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- 12.4.8. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.5. SPILL NOTIFICATION (5.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD

- 12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.
- 12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.
- 12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.
- 12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE. CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES

#### 13. RECORD-KEEPING

13.1 REQUIRED RECORDS

TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (4.1.5.) (6.2.1):

- 13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
- 13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE
- 13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED
- 13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.
- 13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.
- 13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING
- 13.1.7. COPY OF REQUIRED SOIL ANALYSIS
- 13.1.8. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.
- 13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):
  - 13.2.1. EQUIPMENT

AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION

THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS

- RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE RÉPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING
- 13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS. THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.
- 13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.
- 13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS
- 13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT

13.3. KEEPING PLANS CURRENT (3.4)

- 13.3.1. THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.
- 13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

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13.4. MAKING PLANS ACCES

- 13.4.1. TDOT WILL RE OF THE "DO CONSTRUCTIO TDEC AND COMMENCES HAVE A COP WHERE WOR OPERATORS RESPONSIBILI
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13.5. NOTICE OF TERMINATI

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|  |   |  |               |  | -          |
| REPRE  | DOT EPSC INSPECTOR OR THEIR DULY AUTHORIZE<br>SENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHE<br>F THE FOLLOWING CONDITIONS APPLY:   |  |               |  |            |
| 13.3.3.1.  | WHENEVER THERE IS A CHANGE IN THE SCOPE OF TH<br>PROJECT THAT WOULD BE EXPECTED TO HAVE<br>SIGNIFICANT EFFECT ON THE DISCHARGE OF<br>POLLUTANTS TO THE WATERS OF THE STATE AND WHICH<br>HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP   | A<br>DF<br>CH  |               |  |            |
| 13.3.3.2.  | WHENEVER INSPECTIONS OR INVESTIGATIONS BY SIT<br>OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIAL<br>INDICATE THE SWPPP IS PROVING INEFFECTIVE<br>ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT<br>FROM CONSTRUCTION ACTIVITY SOURCES, OR<br>OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVE<br>OF CONTROLLING POLLUTANTS IN STORMWATE<br>DISCHARGES ASSOCIATED WITH CONSTRUCTIO<br>ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIAL<br>DETERMINE THAT THE SWPPP IS INEFFECTIVE<br>ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTAN<br>SOURCES, A COPY OF ANY CORRESPONDENCE TO THA<br>EFFECT MUST BE RETAINED IN THE SWPPP; | LS<br>IN<br>TS<br>IS<br>ES<br>ER<br>DN<br>LS<br>IN<br>IT |               |  |            |
| 13.3.3.3.  | WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR<br>ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY T<br>IMPLEMENT A PORTION OF THE SWPPP;  |  |               |  |            |
| 13.3.3.4.  | TO PREVENT A NEGATIVE IMPACT TO LEGALL<br>PROTECTED STATE OR FEDERALLY LISTED O<br>PROPOSED THREATENED OR ENDANGERED AQUAT<br>FAUNA;  | R  |               |  |            |
| 13.3.3.5.  | WHEN THERE IS A CHANGE IN CHEMICAL TREATMEN<br>METHODS INCLUDING: USE OF DIFFERENT TREATMEN<br>CHEMICALS, DIFFERENT DOSAGE OR APPLICATIO<br>RATES OR A DIFFERENT AREA OF APPLICATION NO<br>SPECIFIED ON THE EPSC PLANS.   | NT<br>N  |               |  |            |
| 13.3.3.6.  | ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN DAYS BY THE PROJECT EPSC INSPECTOR.  | 7  |               |  |            |
| 13.3.3.7.  | WHEN A TMDL IS DEVELOPED FOR THE RECEIVIN<br>WATERS FOR A POLLUTANT OF CONCERN (SILTATIC<br>AND/OR HABITAT ALTERATION), CONSTRUCTION SHAI<br>NOTIFY THE PERMITS SECTION FOR PROPE<br>COORDINATION.  | )N<br>LL   |               |  |            |
| IG PLANS   | ACCESSIBLE  |  |               |  |            |
| OF TH<br>CONST<br>TDEC<br>COMME<br>HAVE A<br>WHERE<br>OPERA<br>RESPO | VILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COP<br>E "DOCUMENTATION AND PERMITS" BINDER AT TH<br>RUCTION SITE (OR OTHER LOCATION ACCESSIBLE T<br>AND THE PUBLIC) FROM THE DATE CONSTRUCTIO<br>ENCES TO THE DATE OF FINAL STABILIZATION. TDOT WIL<br>A COPY OF THE SWPPP AVAILABLE AT THE LOCATIO<br>E WORK IS OCCURRING ON-SITE FOR THE USE OF<br>TORS AND THOSE IDENTIFIED AS HAVIN<br>NSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE OF<br>DISTRUCTION SITE (6.2).   | HE<br>TO<br>DN<br>LL<br>DN<br>DF<br>IG                   |               |  |            |
| UNTIL<br>TDOT C<br>A NOTI  | TO THE INITIATION OF LAND DISTURBING ACTIVITIES AN<br>THE SITE HAS MET THE FINAL STABILIZATION CRITERI<br>OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POS<br>CE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION<br>ITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):   | A,<br>ST   |               |  |            |
| 13.4.2.1.  | A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THNPDES PERMIT NUMBER FOR THE PROJECT;  | ΙE   |               |  |            |
| 13.4.2.2.  | THE INDIVIDUAL NAME, COMPANY NAME, E-MA<br>ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER O<br>THE LOCAL PROJECT SITE OWNER AND OPERATO<br>CONTACT;   | )F   |               |  |            |
| 13.4.2.3.  | A BRIEF DESCRIPTION OF THE PROJECT; AND   |  |               |  |            |
| 13.4.2.4.  | THE LOCATION OF THE SWPPP.  |  |               |  |            |
| MAINTA<br>INFORM<br>SAFETY<br>BUILDIN<br>ACCES                       | FORMATION DESCRIBED IN SECTION 13.4.2 MUST E<br>NED IN LEGIBLE CONDITION. IF POSTING TH<br>ATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE T<br>CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCA<br>NG. THE NOTICE MUST BE PLACED IN A PUBLICI<br>SIBLE LOCATION WHERE CONSTRUCTION IS ACTIVEL<br>WAY AND MOVED AS NECESSARY.  | IS<br>TO<br>AL<br>_Y                                     | Carles Carles | STATE OF TENNESSEE<br>PARTMENT OF TRANSPORTA | G1220-24   |
| E OF TEF   | RMINATION (8.0)   |  |               | POLLUTION                                    |            |

PREVENTION PLAN

Ŋ.

ΗE

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.

- 13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE
  - 13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
  - 13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND
  - 13,5,2,3, ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND
  - 13,5,2,4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
  - 13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND
  - 13,5,2,6, TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
  - 13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.
- 13.6 RETENTION OF RECORDS (6.2)

TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)

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.

-11 MK

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

John Barrett PRINTED NAME

Transportation Project Manager II

8/9/2017

DATE

#### 15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED 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 CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

### 16. ENVIRONMENTAL PERMITS (9.0)

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT (TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE):

| ENVIRONMENTAL PERMITS            |           |                           |                     |  |  |
|----------------------------------|-----------|---------------------------|---------------------|--|--|
| PERMIT                           | YES OR NO | PERMIT<br>OR TRACKING NO. | EXPIRATION<br>DATE* |  |  |
| TDEC ARAP                        |           |                           |                     |  |  |
| CORPS OF<br>ENGINEERS<br>(USACE) |           |                           |                     |  |  |
| TVA 26A                          |           |                           |                     |  |  |
| TDEC CGP                         |           |                           |                     |  |  |
| OTHER:                           |           |                           |                     |  |  |

\*THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

| TYPE  | YEAR | PROJECT NO.   |
|-------|------|---------------|
| Const | 2017 | 82953-3533-04 |

### OUTFALL TABLE (3.5.1.d, 5.4.1.g)

| E | PSC STAGE | OUTFALL LABEL | SUB<br>OUT-FALL | STATION<br>CL, LT<br>OR RT | SLOPE WITHIN<br>ROW<br>(%) | STAGE 1<br>DRAINAGE<br>AREA<br>(AC) | STAGE 2<br>DRAINAGE<br>AREA<br>(AC) | STAGE 3 DRAINAGE<br>AREA<br>(AC) | SEDIMENT BASIN OR<br>EQUIVALENT MEASURE(S)<br>(YES, NO OR N/A) | RECEIVING RESOURCE<br>(TDOT EBR LABEL) OR OTHER | COMMENTS |
|---|-----------|---------------|-----------------|----------------------------|----------------------------|-------------------------------------|-------------------------------------|----------------------------------|--|---|----------|
|   | 1         | OUT-1         |                 | RT                         | 12.16                      | 2.69                                |                                     |                                  | N/A  | STR-1   |          |
|   | 2, 3      | OUT-1         |                 | RT                         | 8.16                       |                                     | 7.54                                | 7.54                             | N/A  | STR-1   |          |
|   | 1         | OUT-2         |                 | RT                         | 5.1                        | 9.47                                |                                     |                                  | N/A  | STR-1   |          |
|   | 2, 3      | OUT-2         |                 | RT                         | 4.35                       |                                     | 4.62                                | 4.62                             | N/A  | STR-1   |          |
|   | 1         | OUT-3         |                 | LT                         | 12.48                      | 0.78                                |                                     |                                  | N/A  | OTHER   |          |
|   | 2, 3      | OUT-3         |                 | LT                         | 6.33                       |                                     | 2.05                                | 2.05                             | N/A  | OTHER   |          |
|   | 2, 3      | OUT-4         |                 | RT                         | 4.18                       |                                     | 0.50                                | 0.50                             | N/A  | OTHER   |          |

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

FILE NO.

| TYPE   | YEAR | PROJECT NO.   | SHEET NO. |
|--------|------|---------------|-----------|
| Const. | 2017 | 82953-3533-04 | 6-8       |
|        |      |               |           |



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| RIGHT-OF-WAY ACQUISITION TABLE, RIGHT-OF-WAY NOTES, UTILITY NOTE UTILITY OWNERS. |         |
| PRESENT LAYOUT   | 4 - 5   |
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| PROPOSED PROFILE   | 4C      |
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| EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS AND NOTES.                    |         |
| ROADWAY CROSS SECTIONS   |         |
| SIDE ROAD CROSS SECTIONS   | 18 - 24 |

## STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION **BUREAU OF ENGINEERING**

# **SULLIVAN COUNTY**

INDUSTRIAL ACCESS ROAD SERVING BRISTOL METALS

**RIGHT-OF-WAY** 

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A



TO HOLSTON VALLEY

N

### END PROJECT NO. 82953-1533-04 R.O.W.

STA. 108+33.79 N 825012.8237 E 3090096.5976

### BEGIN PROJECT NO. 82953-1533-04 R.O.W.

### STA. 102+00.00

TDOT ROAD SP. SV. 1: JORDAN LIVESAY

123032.00

82953-1533-04 (DESIGN)

DESIGNER : ALEX KEELTY

P.E. NO.

PIN NO.

N 824526.7072 E 3089696.1112

### SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

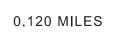
THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

R.O.W. LENGTH

TO BL

SCALE: 1"= 1000

VESSEX DE



 $3000^{\circ}$ 

BRISTOL POP. 25,259 (2004 EST.)

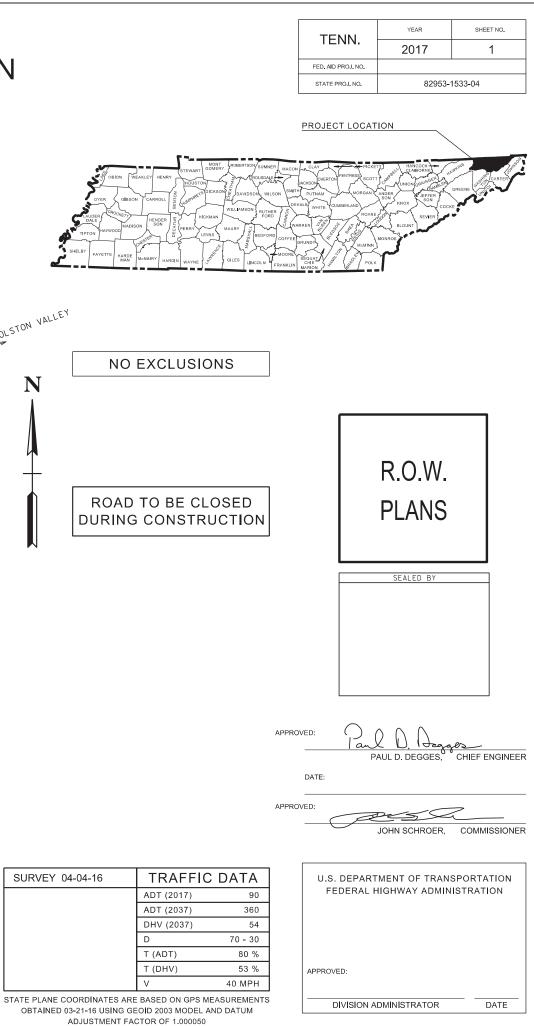
AIRWOOD DR

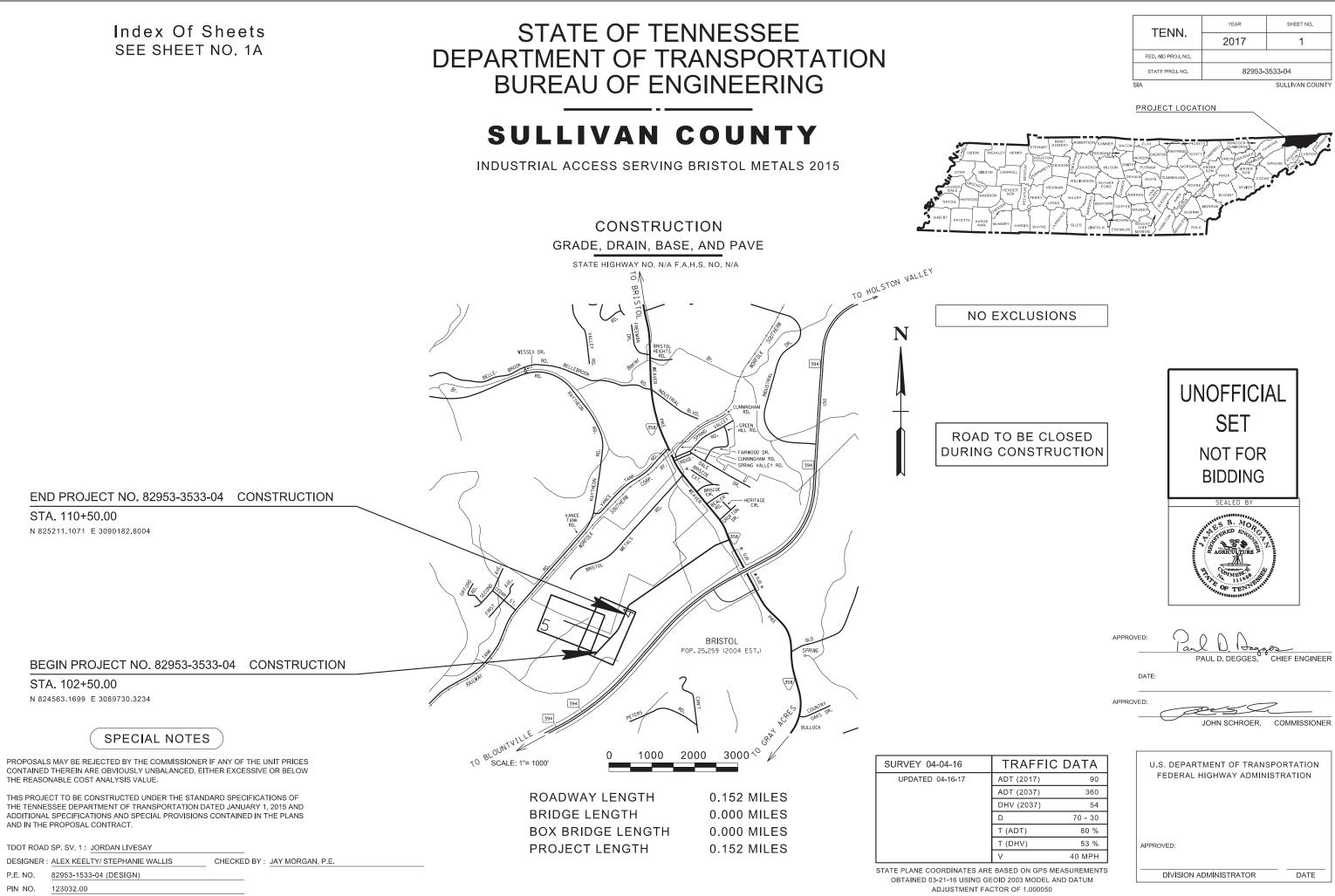
SURVEY 04-04-16

CHECKED BY : JAY MORGAN, P.E.

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1000





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### **ROADWAY INDEX**

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| UTILITIES INDEX   | U1-1           |
| NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USE<br>OF SHEETS.     | D IN NUMBERING |

## STANDARD ROADWAY DRAWINGS

| DWG.       | REV.     | DESCRIPTION  | DWG.                    | REV.                 | DESCRIPTIO                    |
|------------|----------|--|-------------------------|----------------------|-------------------------------|
| ROADWAY    | DESIGN   | STANDARDS  | T-WZ-36                 | 03-05-17             | LANE CLOSURE                  |
| RD-A-1     | 12-18-99 | STANDARD ABBREVIATIONS   | EROSION                 | PREVENT              | ION AND SEDI                  |
| RD-L-1     | 10-26-94 | STANDARD LEGEND  | EC-STR-3B               | 03-16-17             | SILT FENCE                    |
| RD-L-2     | 09-05-01 | STANDARD LEGEND FOR UTILITY INSTALLATIONS  | EC-STR-3C               | 08-01-12             | SILT FENCE WIT                |
| RD-L-5     | 05-01-08 | STANDARD LEGEND FOR EROSION PREVENTION AND<br>SEDIMENT CONTROL                               | EC-STR-3E               | 04-01-08             | SILT FENCE FAB                |
| RD-L-6     | 03-30-10 | STANDARD LEGEND FOR EROSION PREVENTION AND   | EC-STR-27               | 08-01-12             | TEMPORARY SL                  |
|            |          | SEDIMENT CONTROL   | EC-STR-34               | 08-01-12             | EROSION CONTI<br>INSTALLATION |
| RD-L-7     | 05-24-12 | STANDARD LEGEND FOR EROSION PREVENTION AND<br>SEDIMENT CONTROL                               | EC-STR-6                | 05-06-16             | ROCK CHECK D                  |
| RD01-TS-1A | 02-05-16 | DESIGN STANDARDS FOR LOW-VOLUME LOCAL<br>ROADS (ADT<=400)                                    | EC-STR-6A               | 05-06-16             | ENHANCED ROC                  |
| RD01-SE-3  | 10-15-02 | RURAL SUPERELEVATION DETAILS   | EC-STR-11A<br>EC-STR-25 | 08-01-12<br>08-01-12 | CULVERT PROT                  |
| RD01-S-11  | 04-04-03 | DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE<br>SLOPE DEVELOPMENT                            | EC-31R-23               | 00-01-12             | EXIT, CONSTRU                 |
| RD01-S-11A | 10-15-02 | ROADSIDE DITCH DETAILS FOR DESIGN AND<br>CONSTRUCTION  |                         |                      |                               |
| RD01-SD-1  |          | INTERSECTION SIGHT DISTANCE DESIGN AND<br>GENERAL NOTES                                      |                         |                      |                               |
| RD01-SD-2  |          | INTERSECTION SIGHT DISTANCE LANDSCAPE AND<br>OBSTRUCTION                                     |                         |                      |                               |
| RD01-SD-3  |          | INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS  |                         |                      |                               |
| PIPE CULV  | ERTS AN  | D ENDWALLS   |                         |                      |                               |
| D-PB-1     | 03-16-17 | STANDARD DETAILS FOR CONCRETE PIPE<br>INSTALLATION   |                         |                      |                               |
| D-PB-2     | 01-29-14 | STANDARD DETAILS FOR FLEXIBLE PIPE   |                         |                      |                               |
| D-PB-3     |          | INDUCED TRENCH SOIL EMBANKMENT FOR PIPE<br>CULVERT INSTALLATION                              |                         |                      |                               |
| D-PG-3     | 04-15-97 | FERROUS AND ALUMINUM CORRUGATED METAL PIPE   |                         |                      |                               |
| D-PS-1     | 03-15-76 | STRUTTING DETAILS FOR CORR. METAL &<br>STRUCTURAL PLATE ROUND PIPE                           |                         |                      |                               |
| D-PE-24A   | 01-21-16 | 24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)                                 |                         |                      |                               |
| D-PE-24B   |          | 24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)                                 |                         |                      |                               |
| D-PE-4     | 10-10-16 | STRAIGHT CONCRETE ENDWALL  |                         |                      |                               |
| SAFETY D   | ESIGN AN | ID FENCES  |                         |                      |                               |
| S-CZ-1     |          | CLEAR ZONE CRITERIA  |                         |                      |                               |
| S-PL-1     |          | SAFETY PLAN AT ROADSIDE HAZARDS  |                         |                      |                               |
| S-PL-2     | 10-10-16 | SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES   |                         |                      |                               |
| DESIGN - 1 | RAFFIC   | CONTROL  |                         |                      |                               |
| T-M-1      | 07-24-14 | DETAILS OF PAVEMENT MARKINGS FOR<br>CONVENTIONAL ROADS AND MARKING<br>ABBREVIATIONS          |                         |                      |                               |
| T-M-2      | 10-10-16 | DETAILS OF PAVEMENT MARKINGS FOR<br>CONVENTIONAL ROADS                                       |                         |                      |                               |
| T-M-3      | 07-24-14 | MARKING STANDARDS FOR TRAFFIC ISLANDS,<br>MEDIANS & PAVED SHOULDERS ON CONVENTIONAL<br>ROADS |                         |                      |                               |
| T-M-4      | 10-10-16 | STANDARD INTERSECTION PAVEMENT MARKINGS  |                         |                      |                               |
| T-WZ-10    | 04-02-12 | ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS   |                         |                      |                               |

| TYPE              | YEAR | PROJECT NO.   | SHEET<br>NO. |
|-------------------|------|---------------|--------------|
| CONST.            | 2017 | 82953-3533-04 | 1A           |
|                   |      |               |              |
|                   |      |               |              |
|                   |      |               |              |
| SIA SULLIVAN COUN |      |               |              |

82953-3533-04 (CONST.)

### TION

JRE ON LOW-VOLUME 2-LANE HIGHWAY

### EDIMENT CONTROL

WITH WIRE BACKING

FABRIC JOINING DETAILS

SLOPE DRAIN AND BERM

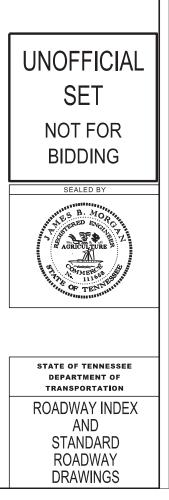
ONTROL BLANKET FOR SLOPE

### K DAM

ROCK CHECK DAM

ROTECTION TYPE 2

Y CULVERT CROSSING, CONSTRUCTION

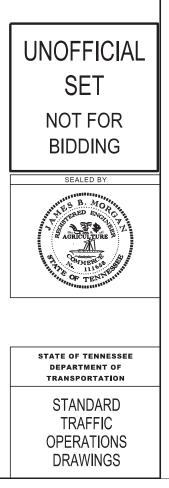


### STANDARD TRAFFIC OPERATIONS DRAWINGS

| DWG.   | REV.     | DESCRIPTION   |
|--------|----------|---|
| SIGNS  |          |   |
| T-S-9  | 06-10-14 | STANDARD LAYOUT GROUND MOUNTED SIGNS                                  |
| T-S-10 | 04-04-12 | STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN      |
| T-S-16 | 07-02-15 | GROUND MOUNTED ROADSIDE SIGN PLACEMENT<br>DETAILS                     |
| T-S-17 | 07-02-15 | STANDARD GROUND MOUNTED SIGN USING<br>PERFORATED/KNOCKOUT SQUARE TUBE |
| T-S-18 | 02-14-14 | END OF ROADWAY, DEAD END SIGNS, AND METAL<br>BARRICADES (TYPE III)    |
| T-S-19 | 07-19-15 | STANDARD STEEL SIGN SUPPORTS  |
| T-S-20 | 11-01-11 | SIGN DETAILS  |

IB-17-03

| TYPE   | YEAR | PROJECT NO.   | SHEET<br>NO. |  |
|--|------|---------------|--------------|--|
| CONST.                                       | 2017 | 82953-3533-04 | 1A1          |  |
|  |      |               |              |  |
|  |      |               |              |  |
|  |      |               |              |  |
| SIA SULLIVAN COUNT<br>82953-3533-04 (CONST.) |      |               |              |  |



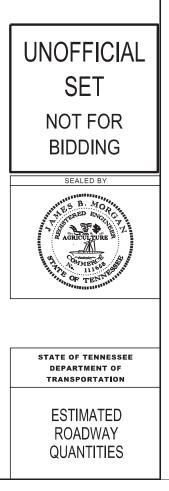
|      |             | ITEM NO.  | DESCRIPTION   | UNIT              | QUANTITY |
|------|-------------|-----------|---|-------------------|----------|
|      |             | 105-01    | CONSTRUCTION STAKES, LINES AND GRADES                 | LS                | 1        |
| 14   |             | 201-01    | CLEARING AND GRUBBING                                 | LS                | 1        |
| 2    | 1331        | 203-01    | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)             | C.Y.              | 23405    |
| ©    |             | 203-04    | PLACING AND SPREADING TOPSOIL                         | C.Y.              | 716      |
| 057  |             | 203-06    | WATER   | M.G.              | 40       |
|      | 2           | 203-07    | FURNISHING & SPREADING TOPSOIL                        | C.Y.              | 886      |
| ſ    |             | 209-02.06 | 15" TEMPORARY SLOPE DRAIN                             | L.F.              | 377      |
|      | [           | 209-05    | SEDIMENT REMOVAL                                      | C.Y.              | 6        |
| 33   | [           | 209-08.02 | TEMPORARY SILT FENCE (WITH BACKING)                   | L.F.              | 491      |
|      | [           | 209-08.03 | TEMPORARY SILT FENCE (WITHOUT BACKING)                | L.F.              | 381      |
|      | 1           | 209-08.07 | ROCK CHECK DAM PER                                    | EACH              | 28       |
|      |             | 209-08.08 | ENHANCED ROCK CHECK DAM                               | EACH              | 3        |
| 1.1  |             | 303-01    | MINERAL AGGREGATE, TYPE A BASE, GRADING D             | TON               | 3737     |
|      | (4)         | 303-01.01 | GRANULAR BACKFILL (ROADWAY)                           | TON               | 81       |
|      | 13(3)5)     | 303-10.01 | MINERAL AGGREGATE (SIZE 57)                           | TON               | 58       |
|      | ~~~         | 307-01.01 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A    | TON               | 1460     |
|      |             | 307-01.08 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 | TON               | 921      |
|      | ľ           | 402-01    | BITUMINOUS MATERIAL FOR PRIME COAT (PC)               | TON               | 14       |
|      | ŀ           | 403-01    | BITUMINOUS MATERIAL FOR TACK COAT (TC)                | TON               | 6        |
|      | ŀ           | 411-01.10 | ACS MIX(PG64-22) GRADING D                            | TON               | 558      |
|      | ł           | 415-01.02 | COLD PLANING BITUMINOUS PAVEMENT                      | S.Y.              | 467      |
|      | 6           | 607-05.30 | 24" PIPE CULVERT                                      | L.F.              | 95       |
|      | <b>S</b>    | 611-07.01 | CLASS A CONCRETE (PIPE ENDWALLS)                      | C.Y.              | 1.5      |
|      |             | 611-07.02 | STEEL BAR REINFORCEMENT (PIPE ENDWALLS)               | LB.               | 70       |
|      |             | 611-07.57 | 24IN ENDWALL (CROSS DRAIN) 3:1                        | EACH              | 1        |
| Г    |             | 621-03.02 | 18" TEMPORARY DRAINAGE PIPE                           | L.F.              | 34       |
| 0    | Ø           | 709-05.05 | MACHINED RIP-RAP (CLASS A-3)                          | TON               | 329      |
| 013  | 8           | 709-05.06 | MACHINED RIP-RAP (CLASS A-3)                          | TON               | 380      |
| L    | <u> </u>    | 709-05.08 | MACHINED RIP-RAP (CLASS A-1)                          | TON               | 21       |
|      | 9           |           | TRAFFIC CONTROL                                       | 1.5203392.022.510 |          |
| Г    |             | 712-01    |   | LS                | 1        |
|      | -           | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING)                         | EACH              | 25       |
| (10) | ŀ           | 712-05.01 | WARNING LIGHTS (TYPE A)                               | EACH              | 2        |
| L    |             | 712-06    | SIGNS (CONSTRUCTION)                                  | S.F.              | 42       |
|      |             | 712-07.03 | TEMPORARY BARRICADES (TYPE III)                       | L.F.              | 40       |
|      |             | 713-02.30 | FLEXIELE TUBULAR DELINEATOR                           | EACH              | 19       |
|      |             | 713-15.35 | METAL BARRICADE (TYPE III)                            | EACH              | 2        |
|      |             | 713-16.06 | DEAD END SIGN AND SUPPORT                             | EACH              | 1        |
|      |             | 713-16.07 | END OF ROADWAY SIGN AND SUPPORT                       | EACH              | 2        |
|      | ļ           | 713-16.20 | SIGNS (R1-1)  | EACH              | 1        |
|      | 1           | 713-16.21 | SIGNS (W3-1)  | EACH              | 1        |
|      |             | 716-02.04 | PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)     | S.Y.              | 38       |
|      | ļ           | 716-02.05 | PLASTIC PAVEMENT MARKING (STOP LINE)                  | L.F.              | 18       |
|      | ļ           | 716-05.01 | PAINTED PAVEMENT MARKING (4" LINE)                    | L.M.              | 1.88     |
|      |             | 717-01    | MOBILIZATION  | LS                | 1        |
|      | 1           | 740-06.01 | GEOMEMBRANE   | S.Y.              | 2322     |
|      | (13)(3)(12) | 740-10.03 | GEOTEXTILE (TYPE III)(EROSION CONTROL)                | S.Y.              | 326      |
|      |             | 801-01.07 | TEMPORARY SEEDING (WITH MULCH)                        | UNIT              | 87       |
|      |             | 801-02    | SEEDING (WITHOUT MULCH)                               | UNIT              | 87       |
|      |             | 801-03    | WATER (SEEDING & SODDING)                             | M.G.              | 18       |
|      |             | 801-08    | FERTILIZER (SUPPLEMENTA_ APPLICATION)                 | TON               | 1        |
|      | (13(3)      | 805-12.01 | EROSION CONTROL BLANKET (TYPE I)                      | S.Y.              | 9615     |

### FOOTNOTES

- INCLUDES 7 C.Y. FOR TEMP. CONST. EXIT., 865 FOR TEMP. BERM AND 22533 C.Y. FOR EARTHWORK. 1
- SEE GRADING SPECIAL NOTES ON SHEET 2D.
- 2 3 SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- TO BE USED FOR "V" BOTTOM RIP-RAP (CLASS A-1) DITCH. 4
- 3 INCLUDES 53 TONS FOR TEMP. CULVERT CROSSING AND 5 TONS FOR CULVERT INLET PROTECTION (TYPE 2). INCLUDES COST OF BEDDING MATERIAL. 6
- $\overline{O}$ INCLUDES 50 TONS FOR TEMP. CONST. EXIT. AND 279 TONS FOR DITCHES.
- (8) INCLUDES 137 TONS FOR TEMP. CULVERT CROSSING AND 243 TONS FOR SPECIAL DITCHES.
- 9 TO BE USED FOR RIP-RAP APRON.
- 10 BE INCREASED OR DECREASED AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT SUPERVISOR.
- TO BE USED ALONG ALL PROPOSED DITCHES.
- INCLUDES 20 S.Y. FOR CULVERT INLET PROTECTION (TYPE 2), 86 S.Y. FOR TEMP. CONST. EXIT, AND 220 S.Y. FOR 12 TEMP. CULVERT CROSSING.
- (3) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

| TYPE   | YEAR | PROJECT NO.   | SHEET |
|--------|------|---------------|-------|
|        |      | 11002011101   | NO.   |
| CONST. | 2017 | 82953-3533-04 | 2A    |
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### **GENERAL NOTES**

### GRADING

- ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION (1) DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE
- CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN (2) ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR (3) OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

### SEEDING AND SODDING

- ITEM NO. 801-02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER (1) AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.
- ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL (2)BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

### DRAINAGE

- THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. (1) THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- EXCAVATION FOR 607-05.30 WILL NOT BE MEASURED AND PAID FOR (2) DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PERLINEAR FOOT OF PIPE ( PIPE CULVERTS, STORM SEWERS, CONDUITS, ALLOTHER CULVERTS AND MINOR STRUCTURES).
- THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS (3) OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND FAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION (4)OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DEGREAGE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST (5) ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC. AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

### FENCING

THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO (1) WEEKS NOTICE PRIOR TO CUTTING FENCES.

### MISCELLANEOUS

- ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE (1)CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL (2) RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

### PAVEMENT MARKINGS

### FINAL PAVEMENT MARKING

PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT (1) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4IN LINE), L.M.

### PAVEMENT

### PAVING

- THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF (1) TRAFFIC
- THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE (2)DIRECTION OF TRAFFIC.
- THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE (3)PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

### RIPRAP

- (1) RIPRAP SHALL CONSIST OF FURNISHING AND PLACING EITHER RUBBLE STONES BY HAND OR MACHINED. RUBBLE STONE SHALL MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE CLEAN (FREE FROM ORGANIC MATTER), DURABLE, ANGULAR WITH FRACTURED FACES, NEARLY RECTANGULAR IN SHAPE WITH A BREADTH OR THICKNESS AT LEAST ONE THIRD ITS LENGTH.
- (2)F THE CONTRACTOR ELECTS TO USE MACHINED RIPRAP, IT SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS, AND SHALL VARY IN SIZE FROM 3" TO 2'- 3", THE STONE SIZES SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE SIZE RANGE WITH NO MORE THAN 20% OF THE MATERIAL (BY WEIGHT) LESS THAN 6". THE THICKNESS OF THE STONE LAYER SHALL BE 2.5' (+/-4") AND THE SIZE GRADATION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE LAYER THICKNESS AND FROM TOP TO BOTTOM OF THE SLOPE. UPON COMPLETION OF THE PROJECT, A VISUAL INSPECTION SHALL REVEAL THAT APPROXIMATELY 50% OF THE SURFACE AREA CONSISTS OF STONES 1.5" OR LARGER. PAYMENT WILL BE MADE UNDER ITEM 709-05.08 AND QUANTITIES WILL BE BASED ON A THICKNESS OF 3'- 00"
- (3)F THE CONTRACTOR ELECTS TO USE MACHINED RIPRAP, IT SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS, AND SHALL VARY IN SIZE FROM 2" TO 6". THE STONE SIZES SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE SIZE RANGE WITH NO MORE THAN 20% OF THE MATERIAL (BY WEIGHT) LESS THAN 4". THE THICKNESS OF THE STONE LAYER SHALL BE 12" AND THE SIZE GRADATION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE LAYER THICKNESS AND FROM TOP TO BOTTOM OF THE SLOPE. UPON COMPLETION OF THE PROJECT, A VISUAL INSPECTION SHALL REVEAL THAT APPROXIMATELY 50% OF THE SURFACE AREA CONSISTS OF STONES 3" OR LARGER. PAYMENT WILL BE MADE UNDER ITEM 709-05.05 AND QUANTITIES WILL BE BASED ON A THICKNESS OF 0'- 06".
- F THE CONTRACTOR ELECTS TO USE MACHINED RIPRAP, IT SHALL BE IN (4)ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS, AND SHALL VARY IN SIZE FROM 2" TO 1'- 3". THE STONE SIZES SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE SIZE RANGE WITH NO MORE THAN 20% OF THE MATERIAL (BY WEIGHT) LESS THAN 4". THE THICKNESS OF THE STONE LAYER SHALL BE 1.5' (+/-3") AND THE SIZE GRADATION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE LAYER THICKNESS AND FROM TOP TO BOTTOM OF THE SLOPE. UPON COMPLETION OF THE PROJECT, A VISUAL INSPECTION SHALL REVEAL THAT APPROXIMATELY 50% OF THE SURFACE AREA CONSISTS OF STONES 7.5" OR LARGER. PAYMENT WILL BE MADE UNDER ITEM 709-05.06 AND QUANTITIES WILL BE BASED ON A THICKNESS OF 1'- 6".

### SIGNING

- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE (1) GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO (2)ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(3) ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS

### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN (1) FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. FACE IS FULLY COVERED.
- IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR (2) OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE (CONSTRUCTION) PER SQUARE FOOT.
- A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER (3) FACE IS FULLY COVERED.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED (4)
- (5) ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS REQUEST THE ENGINEER'S APPROVAL TO USE THEM
- (6) CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT (7) ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL (8) PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

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| TYPE               | YEAR | PROJECT NO.   | SHEET<br>NO. |  |  |  |  |
|--------------------|------|---------------|--------------|--|--|--|--|
| CONST.             | 2017 | 82953-3533-04 | 2C           |  |  |  |  |
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THE LETTER\$, DIGTS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES

SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN

REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS INCLUDED IN THE DRIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS

SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN

UNI ESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING

USE OF BARRICADES, PORTAELE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED PURPOSES FOR RDADWAYS WITH CURRENT ACT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK. THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND

THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TOFORTY-FIVE (45) FEET FOR SPEED OF 6C MPHOR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR

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UNOFFICIAL SE<sup>-</sup> NOT FOR BIDDING SEALED BY STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION GENERAL NOTES

## **GENERAL NOTES (CONT.)**

### EROSION PREVENTION AND SEDIMENT CONTROL

### NATURAL RESOURCES

- SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE (1) STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS. WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TOOT STANDARDS, EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND (2) STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., (4) INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS (5) SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING
- STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR (6) CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVCID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED (7)TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS, ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR (8) TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY (9) CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE. THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

### SPECIES

- NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE (10) SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGG3, OR BIRDS (11)(YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO

LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES MPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

F THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (12)(DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TOOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

### **INSPECTION, MAINTENANCE & REPAIR**

REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN (13)SHEETS (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

### PERMITS, PLANS & RECORDS

- (14) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE CPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (15) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TOOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (16) F A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, NCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE (17)THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. F WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDCT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (18)ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY, THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

### **GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL**

- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM (19)ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT (20)PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND **ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION** ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS (21)ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT

BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

- WHEEL WASH WATER SHALL EE COLLECTED AND ALLOWED TO SETTLE (22) OR STORMWATER TREATMENT SYSTEM.
- IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION (23)SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (24) THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS STORED IN CRIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S LISE AND DISPOSAL
- (25)WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN (26)NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF STATE AND LOCAL REGULATIONS.
- (27) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN & MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE FRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY (28) LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO (29) AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT (30) BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF DISPOSE OF WASTE MATERIALS.

### SUPPORT ACTIVITIES

(31) WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE TO COMMENCE PERMIT RENEWAL PROCESS.

| TYPE   | YEAR               | PROJECT NO.   | SHEET<br>NO. |  |  |  |  |  |
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| CONST. | 2017               | 82953-3533-04 | 2C1          |  |  |  |  |  |
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OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM

ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER

ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE

FOLLOWED, THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY

MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS

REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO

MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT CONTRACTOR SHALL CONTACT THE TOOT PROJECT RESPONSIBLE PARTY

82953-3533-04 (CONST.)

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SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION



## SPECIAL NOTES

### GRADING

- (1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.
- (2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.
- (3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.
- (4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PRCVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- (5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.
- (6) UNDERCUTTING IS NOT RECOMENDED THROUGHTOUT THE PROJECT TO REDUCE THE RISK OF ENCOUNTERING GROUNDWATER. REFER TO PROJECT COMMITMENTS IF GROUNDWATER IS ENCOUNTERED.
- (7) THERE SHALL NOT BE ANY TOPSOIL STRIPPING ALLOWED IN THE FILL AREAS THROUGHTOUT THE PROJECT TO REDUCE THE RISK OF ENCOUNTERING GROUNDWATER. REFER TO PROJECT COMMITMENTS IF GROUNDWATER IS ENCOUNTERED.

### EROSION PREVENTION AND SEDIMENT CONTROL

### ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

### ECOLOGY

- (2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- (3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- (4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

### PROJECT COMMITMENTS

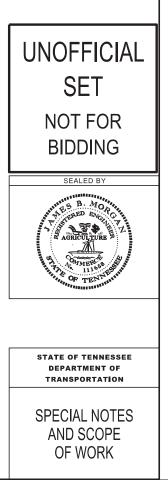
(5) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

## SCOPE OF WORK

- (1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT OF PARTNERSHIP PARK AND NEW ACCESS ROAD AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT SUPERVISOR.
- (2) THIS PROJECT INCLUDES THE INSTALLATION OF RIP RAP, A PIPE CULVERT, AND SPECIAL DITCHES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT SUPERVISOR.
- (3) THIS PROJECT INCLUDES THE APPLICATION OF PAVEMENT MARKERS, EROSION CONTROL BLANKET, SEED WITHOUT MULCH, TRAFFIC CONTROL DEVICES, EPSC DEVICES, AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT SUPERVISOR.

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| TYPE                                       | YEAR | PROJECT NO.   | SHEET<br>NO. |  |  |  |  |  |  |
|--|------|---------------|--------------|--|--|--|--|--|--|
| CONST.                                     | 2017 | 82953-3533-04 | 2D           |  |  |  |  |  |  |
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| SIA SULLIVAN COU<br>82953-3533-04 (CONST.) |      |               |              |  |  |  |  |  |  |



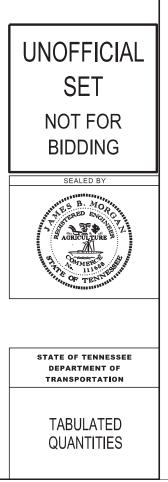
|           |           |                 | CR       | OSS DF         | RAIN | ENDW                                 | ALLS                             |                                     |                | _                                       |                |
|-----------|-----------|-----------------|----------|----------------|------|--------------------------------------|----------------------------------|-------------------------------------|----------------|---|----------------|
| LOCATION  | STATION   | OFFSET<br>(FT.) | TYPE     | DRAWING<br>NO. | SKEW | RIP-RAP<br>CLASS<br>"B"<br>709-05.08 | CLASS<br>A<br>CONC.<br>611-07.01 | STEEL<br>BAR<br>REINF.<br>611-07.02 | 24" IN.<br>3:1 | ENDWALLS<br>24" IN.<br>4:1<br>611-07.58 | 24" IN.<br>6:1 |
|           |           | (, 1,)          |          | NO.            |      | (TON)                                | (C.Y.)                           | (LB.)                               | (EACH)         | (EACH)                                  | (EACH)         |
| Access Rd | 248+54.00 | 60.00 RT        | U        | D-PE-24A       | 75°  | 21                                   |                                  |                                     | 1              |   |                |
| Access Rd | 248+79.00 | 32.50 LT        | Straight | D-PE-4         |      |                                      | 1.5                              | 70                                  |                |   |                |
|           |           | TOTALS          |          |                |      | 21                                   | 1.5                              | 70                                  | 1              | 0                                       | 0              |

|           |      |   | 000.0        |        |     | MD 447 | ~~  |          |         |        |          |  |  |  |
|-----------|------|---|--------------|--------|-----|--------|-----|----------|---------|--------|----------|--|--|--|
|           |      |   | - NAVES - 35 | LASS I |     |        |     | L        | END TRE |        |          |  |  |  |
| STATION   | SKEW | OR PVC OR SRTRP OR HDPE OR PP<br>(L.F.)<br>FILL HEIGHT ≲ 16 FT. |              |        |     | OR PP  |     | INLET    |         | OUTLET | REMARKS  |  |  |  |
|           |      | 18"   | 24"          | 30"    | 36" | 42"    | 48" | TYPE     | D-PE-   | TYPE   | D-PE-    |  |  |  |
| 248+70.00 | 75°  |   | 95           |        |     |        |     | STRAIGHT | D-PE-4  | U      | D-PE-24A |  |  |  |
| ΤΟΤΑΙ     | LS   | 0   | 95           | 0      | 0   | 0      | 0   |          |         |        |          |  |  |  |

| ROAD                  | STATION   |           | sı | DE | WIDTH  | 709-05.05<br>A-3, RIP-RAP | 709-05.06<br>A-1, RIP-RAP | REMARKS |  |
|-----------------------|-----------|-----------|----|----|--------|---------------------------|---------------------------|---------|--|
| F                     | FROM      | TO        | LT | RT | (L.F.) | (TONS)                    | (TONS)                    |         |  |
| Partnership Park Road | 103+00.00 | 103+50.00 |    | X  | 4      | 6.48                      |                           |         |  |
| Partnership Park Road | 103+50.00 | 105+00.00 |    | X  | 4      | 19.43                     |                           | SPECIAL |  |
| Partnership Park Road | 105+00.00 | 108+25.00 |    | X  | 4      | 42.09                     |                           |         |  |
| Partnership Park Road | 105+50.00 | 107+50.00 | X  |    | 4      | 32.38                     |                           |         |  |
| Partnership Park Road | 108+25.00 | 108+75.00 |    | X  | 8      |                           | 40.50                     | SPECIAL |  |
| Partnership Park Road | 108+75.00 | 110+00.00 |    | X  | 4      | 16.19                     |                           |         |  |
| Partnership Park Road | 109+50.00 | 110+00.00 | X  |    | 4      | 6.48                      |                           |         |  |
| Access Road           | 240+00.00 | 242+50.00 | X  |    | 8      |                           | 202.56                    | SPECIAL |  |
| Access Road           | 242+50.00 | 247+00.00 | X  |    | 4      | 64.75                     |                           |         |  |
| Access Road           | 243+50.00 | 247+50.00 |    | X  | 4      | 58.28                     |                           |         |  |
| Access Road           | 247+50.00 | 248+79.00 | X  |    | 4      | 16.71                     |                           | SPECIAL |  |
| Access Road           | 248+79.00 | 250+00.00 | X  |    | 4      | 15.68                     | 2                         | SPECIAL |  |
| TOTALS                |           |           |    |    |        | 279                       | 243                       |         |  |

| ESTIMATED GRADING QUANTITIES |                                      |                         |                              |              |  |  |  |  |  |  |
|------------------------------|--------------------------------------|-------------------------|------------------------------|--------------|--|--|--|--|--|--|
| STATION TO STATION           | ROAD & DRAINAGE EXC. (UNCL.)<br>C.Y. | CHANNEL<br>EXC.<br>C.Y. | EXCESS EXC.<br>WASTE<br>C.Y. | EMB.<br>C.Y. |  |  |  |  |  |  |
| 103+00.00 TO 110+00.00       | 3826                                 | N/A                     | 3011                         | 776          |  |  |  |  |  |  |
| 240+00.00 TO 249+50.00       | 18707                                | N/A                     | 3715                         | 13596        |  |  |  |  |  |  |
| TOTALS                       | 22533                                | 0                       | 6726                         | 14372        |  |  |  |  |  |  |

| TYPE                                       | YEAR | PROJECT NO.   | SHEET<br>NO. |  |  |  |  |  |  |
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| SIA SULLIVAN COU<br>82953-3533-04 (CONST.) |      |               |              |  |  |  |  |  |  |



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|   |                                       |      |   | 1         1         1         1         1         1           1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1 |   |      |                                       |   |                                       | 1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1   | 1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1   |                                       |       |     |             |  |   |                            |               |   |   |   |        |          |                                       | INV. 1 | 624.71  |             |   |                                       |   |                                       |   |                         |                             |            |          |                              |              |
|   |                                       |      |   |   |   |      |                                       |   | INV. 1630                             | .59 (1<br>EW  | )   | · · · · · · · · ·                     |       |     |             |  |   |                            |               | · · · · · · · · · · · · · · · · · · ·   |   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         | -                           |            |          |                              |              |
|   | · · · · · · · · · · · · · · · · · · · |      |   | · · · · · · · · · · · · · · · · · · ·   |   |      |                                       |   |                                       |   | 1         1         1         1         1         1           1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1   | · · · · · · · · · · · · · · · · · · · |       |     | ن<br>۲<br>۲ |  |   |                            |               | · · · · · · · · · · · · · · · · · · ·   | · · · · · · · ·   |   |        |          | +54.00<br>RT                          |        |   |             |   | · · · · · · · · · · ·                 |   |                                       |   |                         | _                           |            |          |                              |              |
|   |                                       |      |   |   |   |      |                                       |   | 14.34                                 | 248+79.(<br>50' I T   |   |                                       |       |     | Ē           |  |   |                            |               |   |   |   |        |          | TA. 248<br>60.00                      |        |   |             |   |                                       |   |                                       |   |                         |                             |            |          |                              |              |
|   |                                       | <br> |   |   |   |      |                                       |   | <br>  0FFSET -44<br>0EL.1631.24       | STA.  | 4.1:1   |                                       | 0.039 | 0.0 |             |  |   | .019                       |               | -0.03   | 94.1:1  |   |        |          |                                       |        | 2   |             |   |                                       |   |                                       |   |                         |                             |            |          |                              |              |
|   |                                       |      |   |   | <br>  | <br> |                                       |   |                                       | <u>–</u> []   | OFFSET - 25.94  |                                       |       |     |             | _6.2%  |   |                            |               |   | . 46  | M   |        | <u> </u> |                                       |        | - 1624.01<br>- SET 73.32                                      | TYPI<br>RIP | <u>= "B"</u><br>RAP   | · · · · · · · · · · · · · · · · · · · |   |                                       |   |                         | _                           |            |          |                              |              |
|   |                                       |      |   |   |   |      |                                       |   |                                       |   | OFFSET  |                                       |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        | AN AN<br>AN AN AN<br>AN AN A |             | 3.00′   |                                       |   |                                       |   | · · ·<br>· · ·<br>· · · |                             |            |          |                              |              |
|   |                                       |      |   |   | 1         2         1         1         1         1         1           1         2         2         2         2         2         3         1           1         2         2         2         2         2         3         1         1           1         2         2         2         2         2         3         1         1           1         2         2         2         2         3         3         3         1           1         2         2         3   |      |                                       |   |                                       |   | · · · · · · · · · · · · · · · · · · ·   |                                       |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        | 14.00   |             |   |                                       |   |                                       |   |                         |                             |            |          |                              |              |
|   |                                       |      |   |   |   |      |                                       |   |                                       |   | · · · · · · · · · · · · · · · · · · ·   |                                       |       |     |             | PIPE CU<br>STATIO<br>STRUCT  | N: 248<br>URE:  | 3+70.00<br>95.90' - 2      |               |   |   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         | -                           | _          |          |                              |              |
|   |                                       |      | ·         · | · · · · · · · · · · · · · · · · · · ·   |   |      |                                       |   |                                       | ·         · | · · · · · · · · · · · · · · · · · · ·   |                                       |       |     |             | SKEW<br>DRAINA<br>DESIGN   |   | EA<br>IARGE (C             | 150)          |   | 75<br>9.17<br><u>10.59</u>  | 5 DEG. I<br>7 AC.<br>9 <del>CFS</del><br>9 CFS  | LT.    |          | · · · · · · · · · · · · · · · · · · · |        |   |             |   | ACCE<br>248+                          |   | ROA                                   | D | · · ·<br>· · ·<br>· · · | _                           | U          | INO      | FFIC                         | IAL          |
|   |                                       |      |   |   |   |      |                                       |   |                                       |   | •         • |                                       |       |     |             | Q50 HEA<br>Q100 HE   | ADWAT   | TER<br>TER<br>(TER<br>0)   |               |   | 1632.48<br>1632.6<br>8.80   | 9 CFS<br>B ELEV.<br>1 ELEV.<br>0 FT/S<br>5 FT/S |        |          |                                       |        |   |             |   | 2401                                  | - 0.  |                                       |   |                         |                             |            | S        | SET                          |              |
|   |                                       |      |   |   |   |      |                                       |   |                                       |   |   |                                       |       |     |             | SKEW<br>DRAINA<br>DESIGN<br>Q50 HEA<br>Q100 HE<br>VELOCI<br>VELOCI<br>VELOCI<br>ENDWA<br>STANDA<br>D-PE-24 | TY (Q1)<br>LLS RE<br>LL (INL  | 00)<br>EQUIRED<br>.ET) AND | : S<br>U-TYPE |   | 9.08<br>IT TYPE<br>ET)  | 5 FT/S  |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         |                             |            |          | T FO                         |              |
|   |                                       |      |   |   |   |      |                                       |   |                                       |   |   |                                       |       |     |             | STANDA<br>D-PE-24  | ARD DR<br><u>A, &amp; D-</u>  | RAWING<br>PE-24B           | NOS.: D       | )-PB-1, I   | D-PE-4,   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         | -                           |            |          | DDIN                         | G            |
|   |                                       |      |   |   | ·                                         |      | · · · · · · · · · · · · · · · · · · · |   |                                       |   |   | · · · · · · · · · · · · · · · · · · · |       |     |             |  | 1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1           1         1         1         1         1         1 |                            |               | ······         ······         ·····         ·····         ·····           ·····         ······         ·····         ·····         ·····         ·····           ·····         ·····         ·····         ·····         ·····         ·····           ·····         ·····         ·····         ·····         ·····         ·····           ·····         ·····         ·····         ·····         ·····         ·····           ·····         ·····         ·····         ·····         ·····         ·····           ····         ·····         ·····         ·····         ·····         ·····   | ·         · |   |        |          |                                       |        |   |             |   |                                       |   | · · · · · · · · · · · · · · · · · · · |   |                         |                             |            | 188888 G | B. MO                        | *****        |
|   |                                       |      | -         - |   | I         I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<> |      |                                       |   |                                       | 1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1         1           1   | 1         1         1         1         1         1           1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1   |                                       |       |     |             |  |   |                            |               | ·         · |   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         |                             |            |          | RED EN                       | C N N        |
|   |                                       |      |   |   |   |      |                                       |   | · · · · · · · · · · · · · · · · · · · |   |   | · · · · · · · · ·                     |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         | -                           |            | STRY'S   | OWMERC'S<br>111658           | AP PROVIDENT |
|   |                                       |      |   | · · · · · · · · · · · · · · · · · · ·   |   |      |                                       |   |                                       | •         • | · · · · · · · · · · · · · · · · · · ·   |                                       |       |     |             |  |   |                            |               | · · · · · · · · · · · · · · · · · · ·   | · · · · · · · ·   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   | · · ·<br>· · ·<br>· · · | _                           |            | *****    | A STATE OF STATES            | •<br>        |
| 5 |                                       |      |   |   |   |      |                                       |   |                                       | 1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1   | ·         · |                                       |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        |   |             | ·         · |                                       |   |                                       |   |                         |                             |            |          |                              |              |
|   |                                       |      |   | 1         1         1         1         1         1           1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1           1         1         1         1         1         1         1         1         1   |   |      |                                       |   |                                       | •         • |   | · · · · · · · · ·                     |       |     |             |  |   |                            |               |   | · · · · · · · ·   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         | 1                           |            |          | OF TENNE<br>OF TRANS         |              |
|   |                                       |      |   |   |   |      |                                       |   |                                       | ·         · | ·         · | · · · · · · · · ·                     |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        |   |             |   |                                       | 1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1   |                                       |   |                         | -                           |            |          |                              |              |
|   |                                       |      |   | 1     1     1     1     1       1     1     1     1     1       1     1     1     1     1       1     1     1     1     1       1     1     1     1     1       1     1     1     1     1       1     1     1     1     1       1     1     1     1     1   |   |      |                                       |   |                                       |   | ·         · |                                       |       |     |             |  |   |                            |               |   |   |   |        |          |                                       |        |   |             |   |                                       |   |                                       |   |                         |                             |            | CL<br>SE | JLVER <sup>-</sup><br>ECTION | Г<br>Į       |
|   |                                       |      |   |   |   |      |                                       | I |                                       |   |   |                                       |       |     |             | •  |   |                            | -             | 1   |   |   |        |          | ·                                     |        |   |             |   |                                       |   |                                       |   |                         | _                           |            |          |                              |              |

-JUL-2017 17:35 Howers A state at the conditional second second

## **EPSC NOTES**

### ENVIRONMENTAL

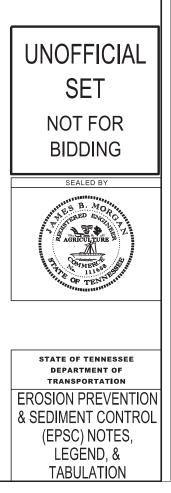
(1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

|                  | ON PREVENTION<br>ENT CONTROL L                  |            |  |  |  |
|------------------|---|------------|--|--|--|
| SYMBOL           | ITEM  | STD. DWG.  |  |  |  |
| * SF * SF * SF * | SILT FENCE                                      | EC-STR-3B  |  |  |  |
| *SFB*SFB*SFB*    | SILT FENCE WITH WIRE<br>BACKING                 | EC-STR-3C  |  |  |  |
|                  | ROCK CHECK DAM (V-DITCH)                        | EC-STR-6   |  |  |  |
| $\bullet$        | ENHANCED ROCK CHECK DAM<br>(V-DITCH)            | EC-STR-6A  |  |  |  |
| <i>i</i>         | CULVERT PROTECTION<br>(TYPE 2)                  | EC-STR-11A |  |  |  |
| œ                | TEMPORARY CONSTRUCTION<br>EXIT                  | EC-STR-25  |  |  |  |
|                  | TEMPORARY CULVERT<br>CROSSING (1 - 18″<br>PIPE) | EC-STR-25  |  |  |  |
|                  | TEMPORARY SLOPE DRAIN<br>WITH TEMPORARY BERM    | EC-STR-27  |  |  |  |
|                  | EROSION CONTROL BLANKET                         | EC-STR-34  |  |  |  |

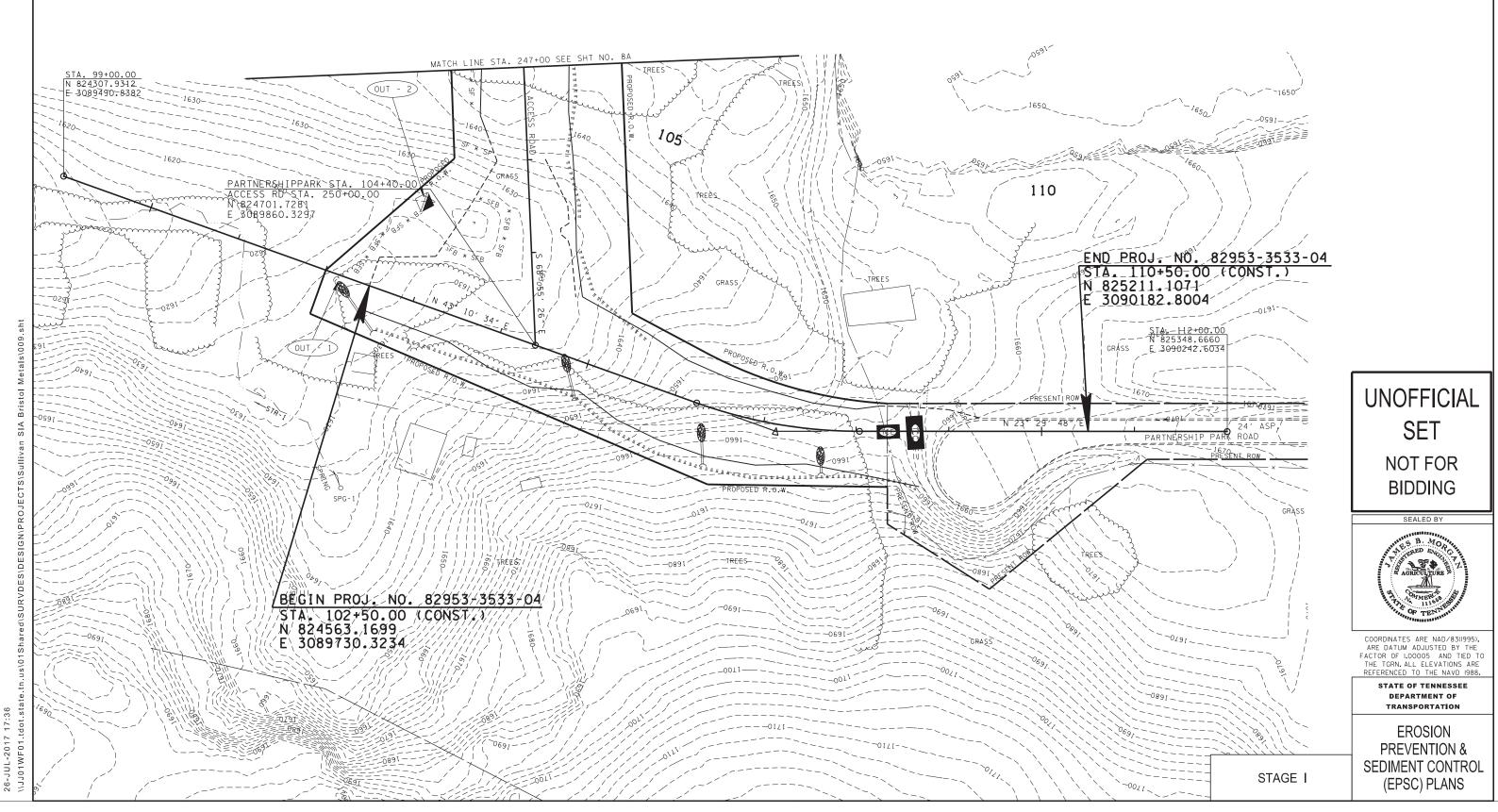
| SEDIMENT CONTROL QUANTITIES |   |      |          |  |  |  |  |  |
|-----------------------------|---|------|----------|--|--|--|--|--|
| ITEM NO.                    | DESCRIPTION                               | UNIT | QUANTITY |  |  |  |  |  |
| 203-01                      | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) | C.Y. | 872      |  |  |  |  |  |
| 209-02.06                   | 15" TEMPORARY SLOPE DRAIN                 | L.F. | 377      |  |  |  |  |  |
| 209-05                      | SEDIMENT REMOVAL                          | C.Y. | 6        |  |  |  |  |  |
| 209-08.02                   | TEMPORARY SILT FENCE (WITH BACKING)       | L.F. | 491      |  |  |  |  |  |
| 209-08.03                   | TEMPORARY SILT FENCE (WITHOUT BACKING)    | L.F. | 381      |  |  |  |  |  |
| 209-08.07                   | ROCK CHECK DAM PER                        | EACH | 28       |  |  |  |  |  |
| 209-08.08                   | ENHANCED ROCK CHECK DAM                   | EACH | 3        |  |  |  |  |  |
| 303-10.01                   | MINERAL AGGREGATE (SIZE 57)               | TON  | 58       |  |  |  |  |  |
| 621-03.02                   | 18" TEMPORARY DRAINAGE PIPE               | L.F. | 34       |  |  |  |  |  |
| 709-05.05                   | MACHINED RIP-RAP (CLASS A-3)              | TON  | 50       |  |  |  |  |  |
| 709-05.06                   | MACHINED RIP-RAP (CLASS A-1)              | TON  | 137      |  |  |  |  |  |
| 740-10.03                   | GEOTEXTILE (TYPE III)(EROSION CONTROL)    | S.Y. | 326      |  |  |  |  |  |
| 805-12.01                   | EROSION CONTROL BLANKET (TYPE I)          | S.Y. | 9616     |  |  |  |  |  |

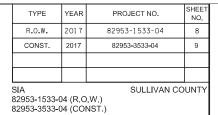
B-17-08

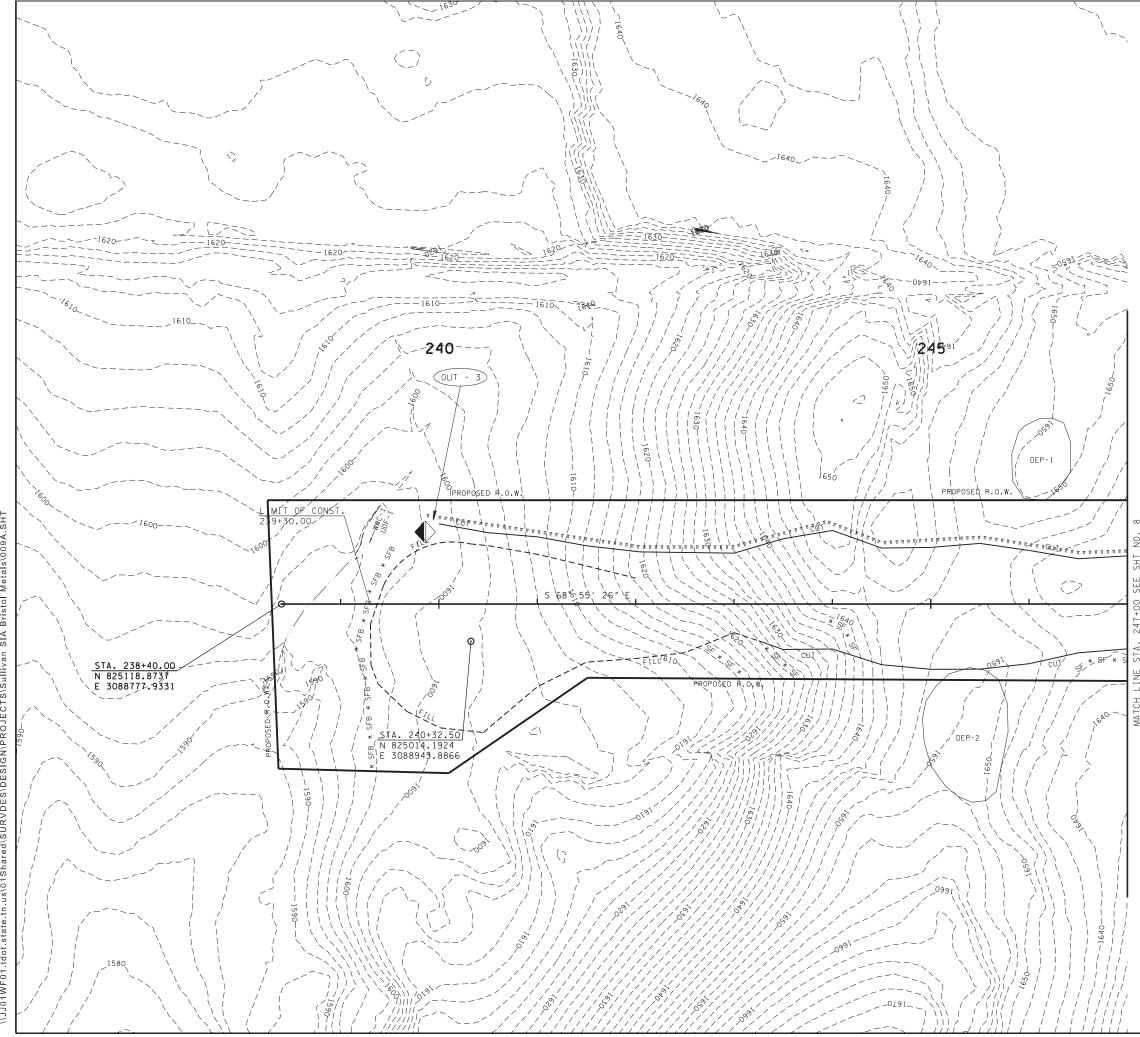
| TYPE                                       | YEAR | PROJECT NO.   | SHEET<br>NO. |  |  |  |  |  |  |
|--|------|---------------|--------------|--|--|--|--|--|--|
| CONST.                                     | 2017 | 82953-3533-04 | 8            |  |  |  |  |  |  |
|  |      |               |              |  |  |  |  |  |  |
|  |      |               |              |  |  |  |  |  |  |
|  |      |               |              |  |  |  |  |  |  |
| SIA SULLIVAN COU<br>82953-3533-04 (CONST.) |      |               |              |  |  |  |  |  |  |



| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>Slope |
|-------------|------------------|---------------|
| OUTFALL - 1 | 2.69 AC          | 12.16%        |
| OUTFALL - 2 | 9.47 AC          | 5.10%         |







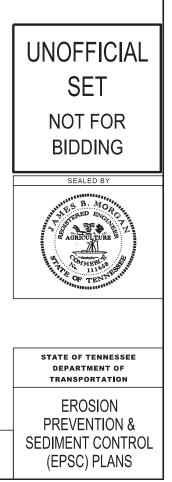
26-JUL-2017 17:36 \\JJ01WF01.tdot.state.tn.us\01Shared\SURVDES\DESIGN\PROJECTS\Sullivan SIA Bristol Metals\009A.SHT



SIA 82953-1533-04 (R.O.W.) 82953-3533-04 (CONST.)

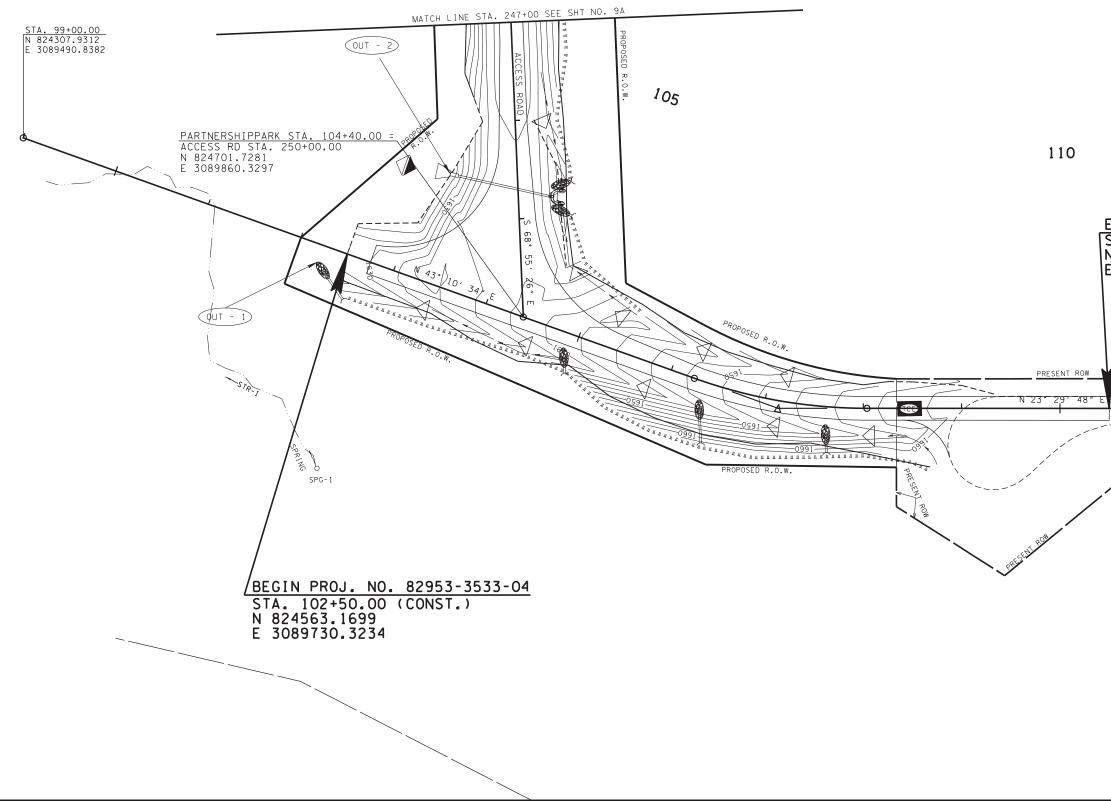


| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>SLOPE |  |
|-------------|------------------|---------------|--|
| OUTFALL - 3 | 0.78 AC          | 12.48%        |  |



STAGE I

| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>Slope |
|-------------|------------------|---------------|
| OUTFALL - 1 | 7.54 AC          | 8.16%         |
| OUTFALL - 2 | 4.62 AC          | 4.35%         |



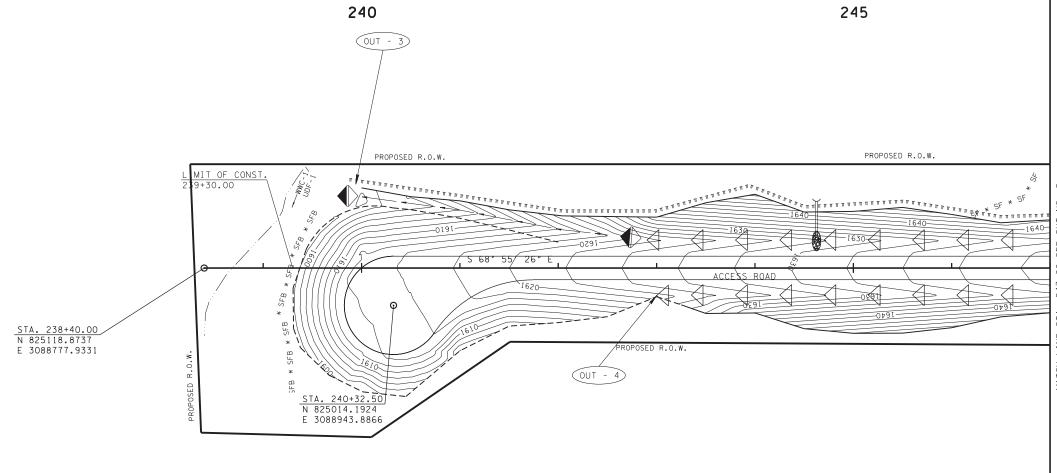
| TYPE   | YEAR | PROJECT NO.   | SHEET<br>NO. |
|--------|------|---------------|--------------|
| R.O.W. | 2017 | 82953-1533-04 | 9            |
| CONST. | 2017 | 82953-3533-04 | 10           |
|        |      |               |              |
|        |      |               |              |
| SIA    |      | SULLIVAN CO   | UNTY         |

82953-1533-04 (R.O.W.) 82953-3533-04 (CONST.)



# END PROJ. NO. 82953-3533-04 STA. 110+50.00 (CONST.) N 825211.1071 E 3090182.8004 <u>STA. 112+00.00</u> N 825348.6660 E 3090242.6034 UNOFFICIAL SET PARTNERSHIP PARK ROAD PRESENT ROW NOT FOR BIDDING SEALED BY COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF LOOOOS AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988. STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION EROSION **PREVENTION &** SEDIMENT CONTROL STAGE II (EPSC) PLANS

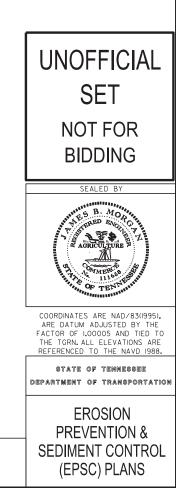
| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>Slope |
|-------------|------------------|---------------|
| OUTFALL - 3 | 2.05 AC          | 6.33%         |
| OUTFALL - 4 | 0.50 AC          | 4.18%         |





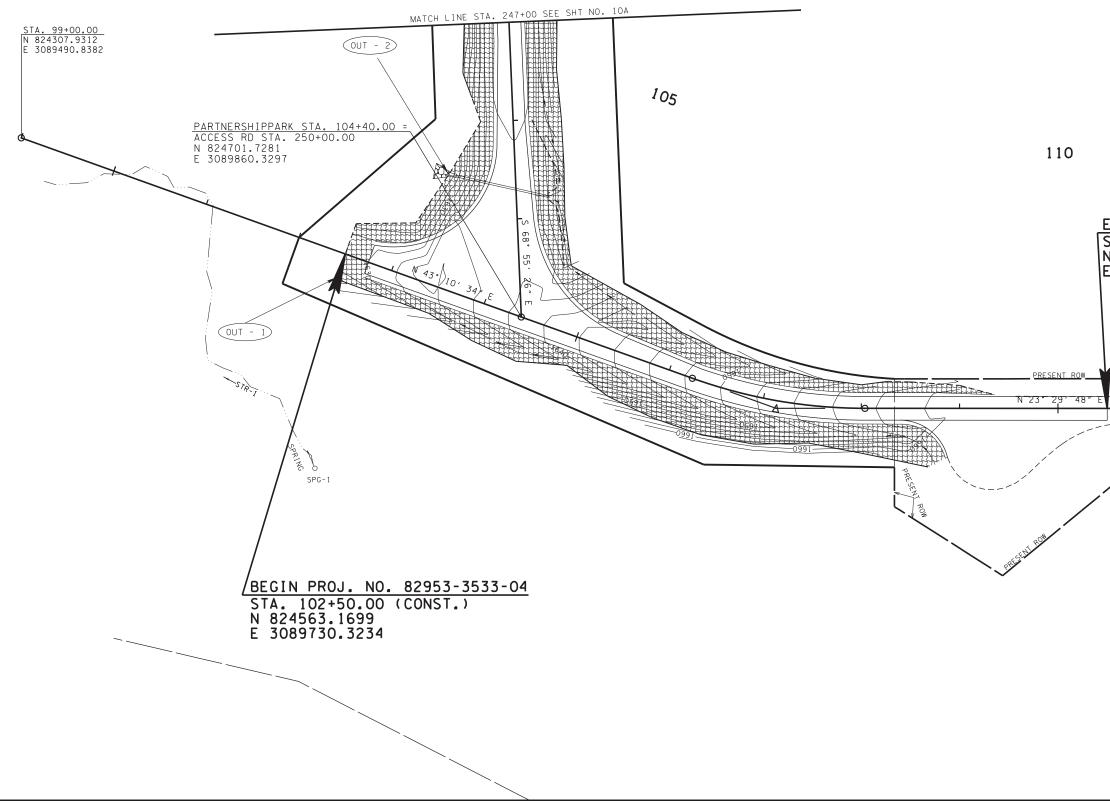
| TYPE   | YEAR | PROJECT NO.   | SHEET<br>NO. |
|--------|------|---------------|--------------|
| R.O.W. | 2017 | 82953-1533-04 | 9A           |
| CONST. | 2017 | 82953-3533-04 | 1 O A        |
|        |      |               |              |
|        |      |               |              |
| SIA    |      | SULLIVAN CO   | UNTY         |

SIA 82953-1533-04 (R.O.W.) 82953-3533-04 (CONST.)



STAGE II

| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>Slope |
|-------------|------------------|---------------|
| OUTFALL - 1 | 7.54 AC          | 8.16%         |
| OUTFALL - 2 | 4.62 AC          | 4.35%         |



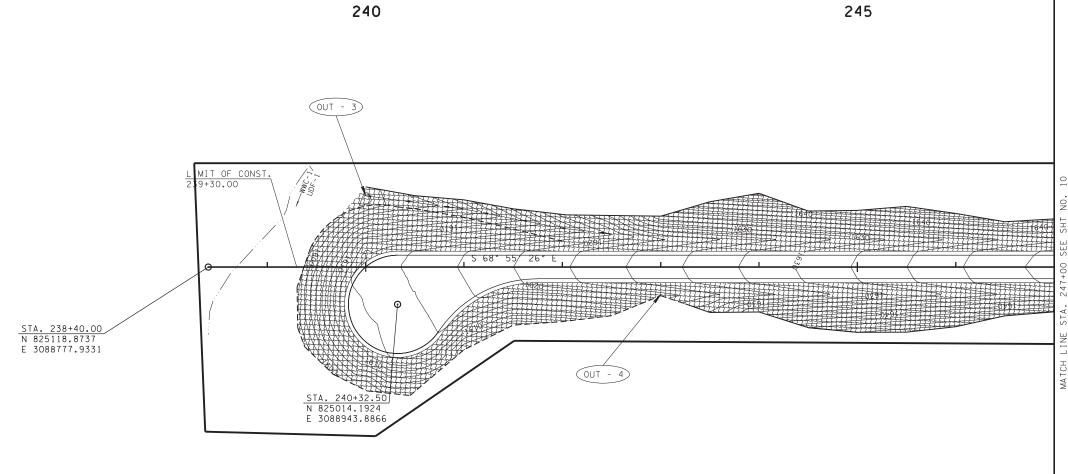
|   | TYPE   | YEAR | PROJECT NO.   | SHEET<br>NO. |
|---|--------|------|---------------|--------------|
|   | R.O.W. | 2017 | 82953-1533-04 | 10           |
|   | CONST. | 2017 | 82953-3533-04 | 11           |
|   |        |      |               |              |
|   |        |      |               |              |
| 1 | SIA    |      | SULLIVAN CO   | UNTY         |

82953-1533-04 (R.O.W.) 82953-3533-04 (CONST.)



# END PROJ. NO. 82953-3533-04 STA. 110+50.00 (CONST.) N 825211.1071 E 3090182.8004 STA. 112+00.00 N 825348.6660 E 3090242.6034 UNOFFICIAL SET PRESENT ROW NOT FOR BIDDING SEALED BY COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF LOOOOS AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988. STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION EROSION **PREVENTION &** SEDIMENT CONTROL STAGE III (EPSC) PLANS

| OUTFALL     | DRAINAGE<br>AREA | AVG.<br>Slope |
|-------------|------------------|---------------|
| OUTFALL - 3 | 2.05 AC          | 6.33%         |
| OUTFALL - 4 | 0.50 AC          | 4.18%         |





|                 | TYPE   | YEAR | PROJECT NO.   | SHEET<br>NO. |
|-----------------|--------|------|---------------|--------------|
|                 | R.O.W. | 2017 | 82953-1533-04 | 1 O A        |
|                 | CONST. | 2017 | 82953-3533-04 | 11 A         |
|                 |        |      |               |              |
|                 |        |      |               |              |
| SIA SULLIVAN CO |        |      | UNTY          |              |

SIA 82953-1533-04 (R.O.W.) 82953-3533-04 (CONST.)

