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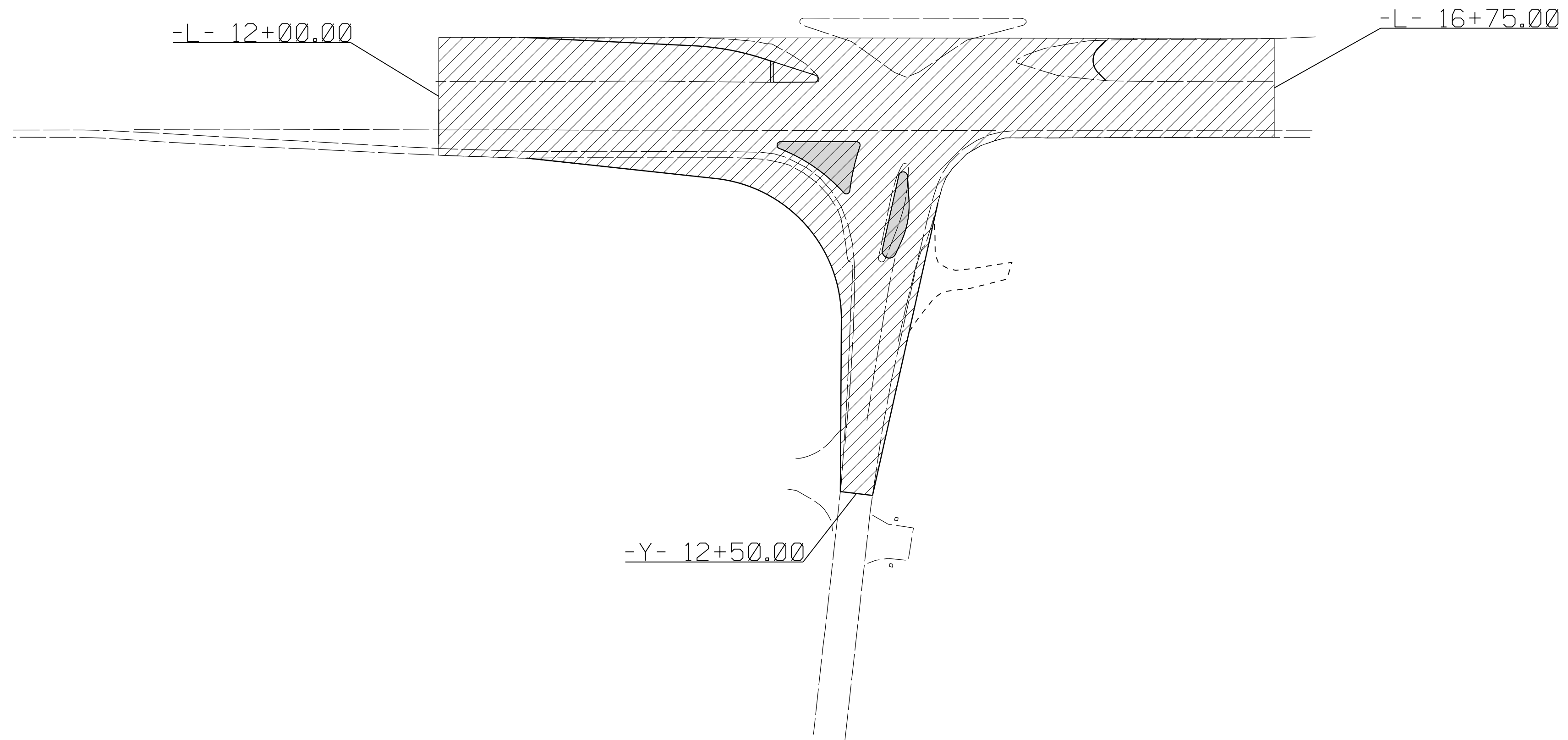
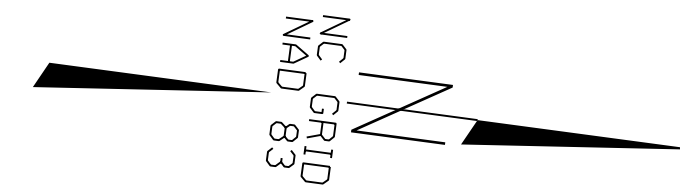
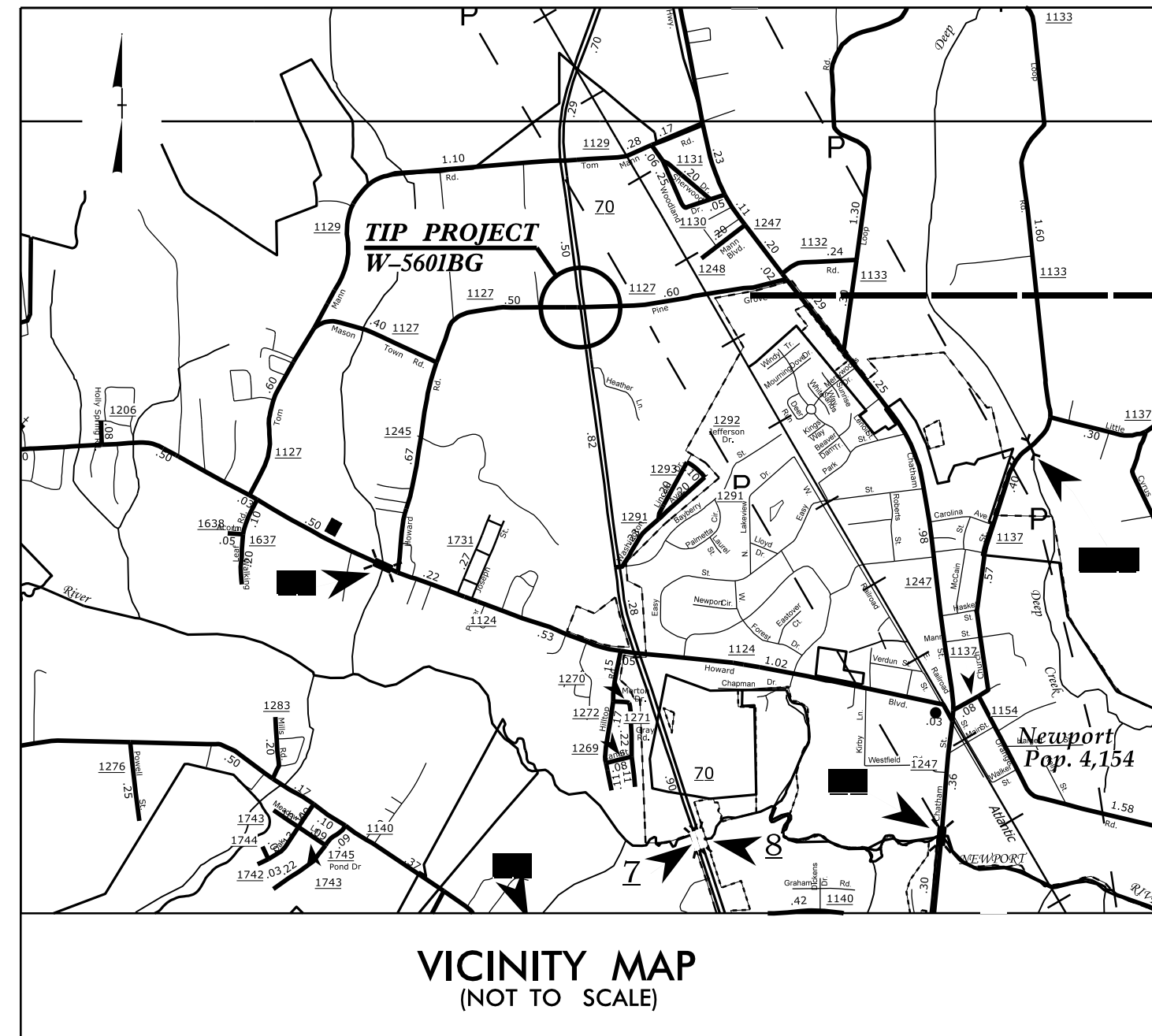
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | W-5601BG | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 50138.1.60 | HSIP-0070(190) | PE | |
| 50138.2.60 | HSIP-0070(190) | RW | |
| 50138.3.60 | HSIP-0070(190) | CONST | |
| | | | |
| | | | |
| | | | |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

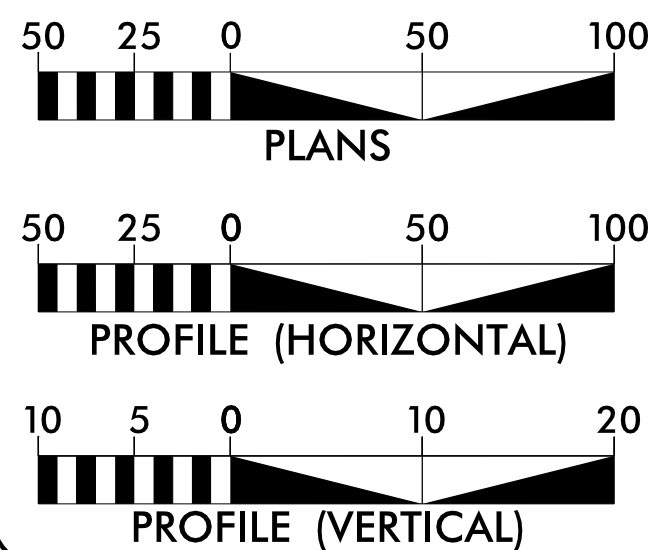
CARTERET COUNTY

LOCATION: INTERSECTION OF US 70 AND MASONTOWN RD

TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING, MONOLITHIC ISLANDS



GRAPHIC SCALES



PROJECT LENGTH

TOTAL LENGTH TIP PROJECT W-5601BG = 0.090 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1704 North Greene Street Greenville, NC 27835

2012 STANDARD SPECIFICATIONS

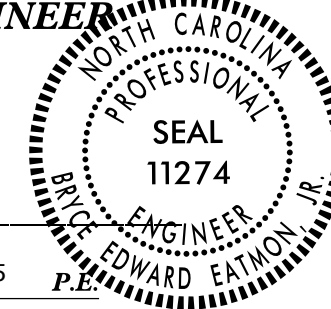
RIGHT OF WAY DATE:
AUGUST 2015

LETTING DATE:
NOVEMBER 2015

ED EATMON
PROJECT ENGINEER

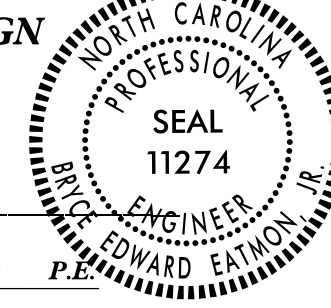
LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

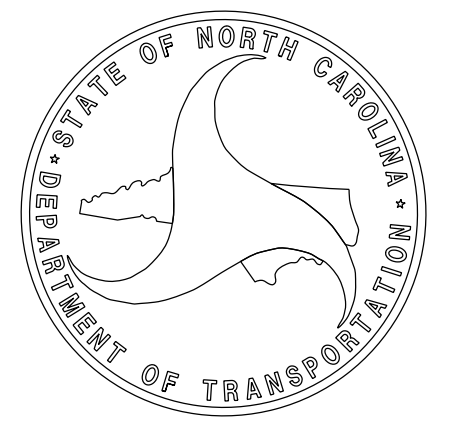


DocuSigned by:
Ed Eatmon
SIGNATURE: 9/17/2015 P.E.

ROADWAY DESIGN ENGINEER



DocuSigned by:
Ed Eatmon
SIGNATURE: 9/17/2015 P.E.



TIP PROJECT: W-5601BG

CONTRACT: DB00248

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INDEX OF SHEETS

| SHEET NUMBER | SHEET |
|--------------|---|
| 1 | TITLE SHEET |
| 1A | INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS |
| 1B | CONVENTIONAL SYMBOLS |
| 2 | TYPICAL SECTIONS |
| 3 | SUMMARY OF QUANTITIES |
| 3A | SUMMARY OF DRAINAGE QUANTITIES AND EARTHWORK |
| 4 | PLAN SHEET |
| EC1- EC3 | EROSION CONTROL SHEETS |
| PM 1 | PAVEMENT MARKINGS |
| X1A | CROSS-SECTION SUMMARY |
| X1-2 | CROSS-SECTIONS |

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

RIGHT-OF-WAY MARKERS:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-17-2012
REV. 10-30-2012

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

| STD. NO. | TITLE |
|----------------------------|--|
| DIVISION 2 - EARTHWORK | |
| 225.02 | Guide for Grading Subgrade - Secondary and Local |
| 228.03 | Deceleration and Acceleration Lanes |
| DIVISION 3 - PIPE CULVERTS | |
| 300.01 | Method of Pipe Installation |
| DIVISION 8 - INCIDENTALS | |
| 840.22 | Frames and Wide Slot Sag Grates |
| 840.27 | Brick Grated Drop Inlet Type "B" - 12" thru 36" Pipe |
| 852.01 | Concrete Islands |

Note: Not to Scale
*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary, Existing Historic Property Boundary, Known Soil Contamination: Area or Site, Potential Soil Contamination: Area or Site.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for hydrology: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Wetland, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for right of way: Baseline Control Point, Existing Right of Way Marker, Existing Right of Way Line, Proposed Right of Way Line, Proposed Right of Way Line with Iron Pin and Cap Marker, Proposed Right of Way Line with Concrete or Granite R/W Marker, Proposed Control of Access Line with Concrete CA Marker, Existing Control of Access, Proposed Control of Access, Existing Easement Line, Proposed Temporary Construction Easement, Proposed Temporary Drainage Easement, Proposed Permanent Drainage Easement, Proposed Permanent Drainage / Utility Easement, Proposed Permanent Utility Easement, Proposed Temporary Utility Easement, Proposed Aerial Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Curb Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line.

Table listing symbols for orchard and vineyard.

EXISTING STRUCTURES:

Table listing symbols for existing structures: MAJOR: Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall; MINOR: Head and End Wall, Pipe Culvert, Footbridge, Drainage Box: Catch Basin, DI or JB, Paved Ditch Gutter, Storm Sewer Manhole, Storm Sewer.

UTILITIES:

Table listing symbols for utilities: POWER: Existing Power Pole, Proposed Power Pole, Existing Joint Use Pole, Proposed Joint Use Pole, Power Manhole, Power Line Tower, Power Transformer, U/G Power Cable Hand Hole, H-Frame Pole, U/G Power Line LOS B (S.U.E.*), U/G Power Line LOS C (S.U.E.*), U/G Power Line LOS D (S.U.E.*); TELEPHONE: Existing Telephone Pole, Proposed Telephone Pole, Telephone Manhole, Telephone Pedestal, Telephone Cell Tower, U/G Telephone Cable Hand Hole, U/G Telephone Cable LOS B (S.U.E.*), U/G Telephone Cable LOS C (S.U.E.*), U/G Telephone Cable LOS D (S.U.E.*), U/G Telephone Conduit LOS B (S.U.E.*), U/G Telephone Conduit LOS C (S.U.E.*), U/G Telephone Conduit LOS D (S.U.E.*), U/G Fiber Optics Cable LOS B (S.U.E.*), U/G Fiber Optics Cable LOS C (S.U.E.*), U/G Fiber Optics Cable LOS D (S.U.E.*).

WATER:

Table listing symbols for water: Water Manhole, Water Meter, Water Valve, Water Hydrant, U/G Water Line LOS B (S.U.E.*), U/G Water Line LOS C (S.U.E.*), U/G Water Line LOS D (S.U.E.*), Above Ground Water Line.

TV:

Table listing symbols for TV: TV Pedestal, TV Tower, U/G TV Cable Hand Hole, U/G TV Cable LOS B (S.U.E.*), U/G TV Cable LOS C (S.U.E.*), U/G TV Cable LOS D (S.U.E.*), U/G Fiber Optic Cable LOS B (S.U.E.*), U/G Fiber Optic Cable LOS C (S.U.E.*), U/G Fiber Optic Cable LOS D (S.U.E.*).

GAS:

Table listing symbols for gas: Gas Valve, Gas Meter, U/G Gas Line LOS B (S.U.E.*), U/G Gas Line LOS C (S.U.E.*), U/G Gas Line LOS D (S.U.E.*), Above Ground Gas Line.

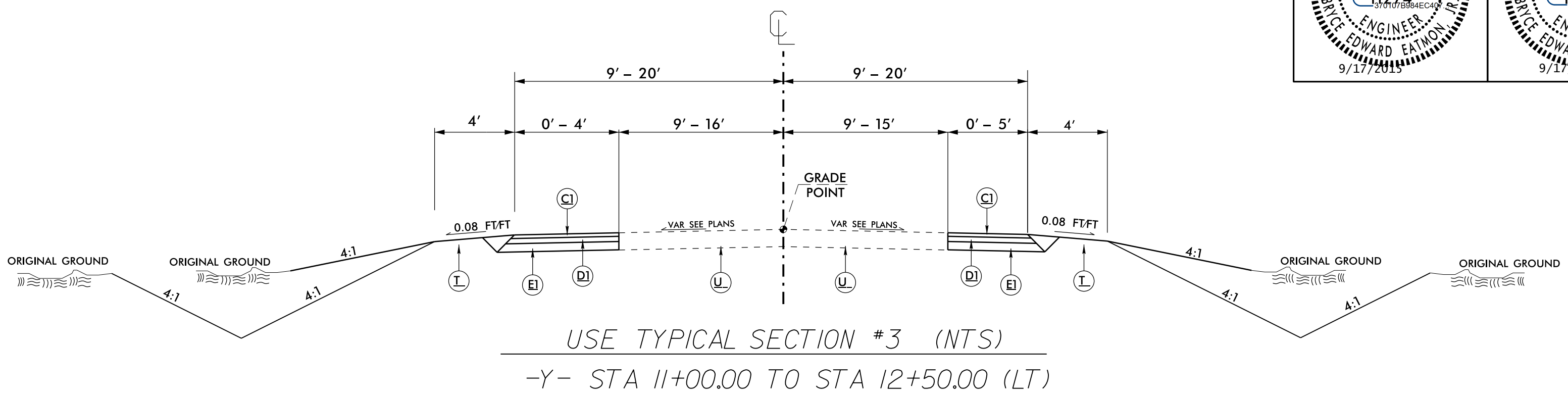
SANITARY SEWER:

Table listing symbols for sanitary sewer: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, SS Forced Main Line LOS B (S.U.E.*), SS Forced Main Line LOS C (S.U.E.*), SS Forced Main Line LOS D (S.U.E.*).

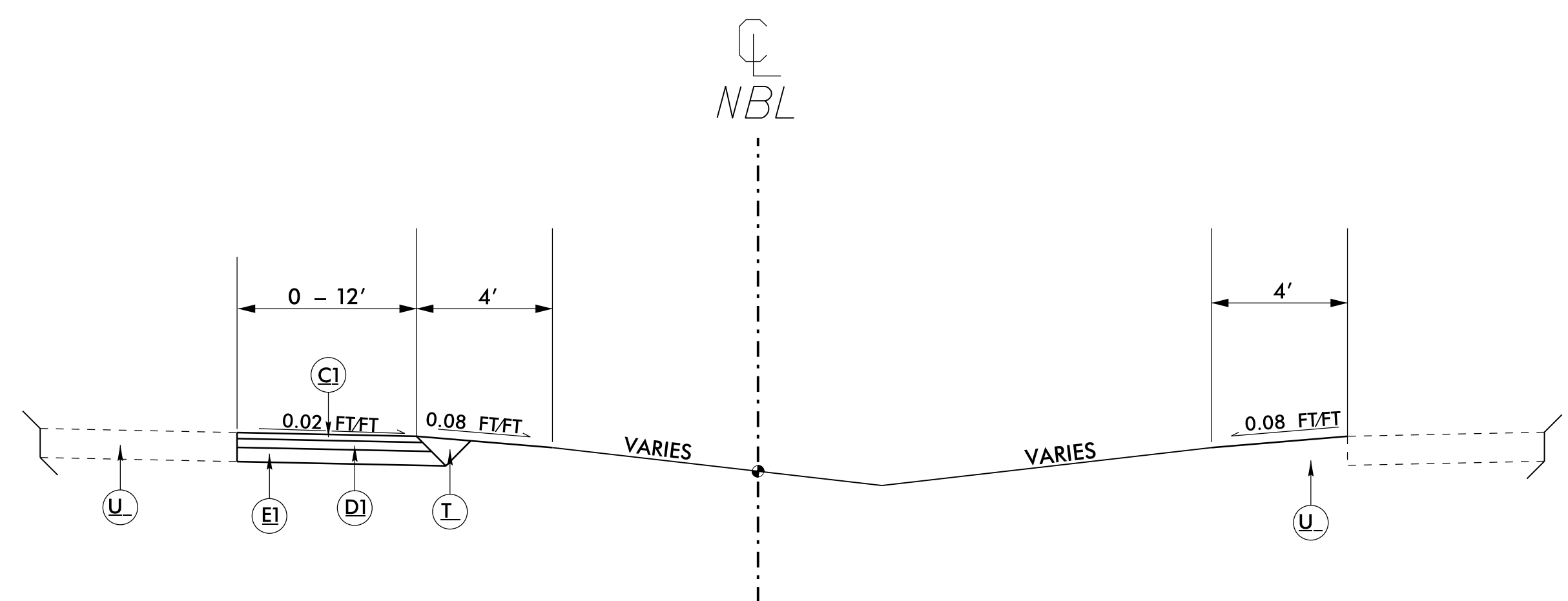
MISCELLANEOUS:

Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line LOS B (S.U.E.*), U/G Tank; Water, Gas, Oil, Underground Storage Tank, Approx. Loc., A/G Tank; Water, Gas, Oil, Geoenvironmental Boring, U/G Test Hole LOS A (S.U.E.*), Abandoned According to Utility Records, End of Information.

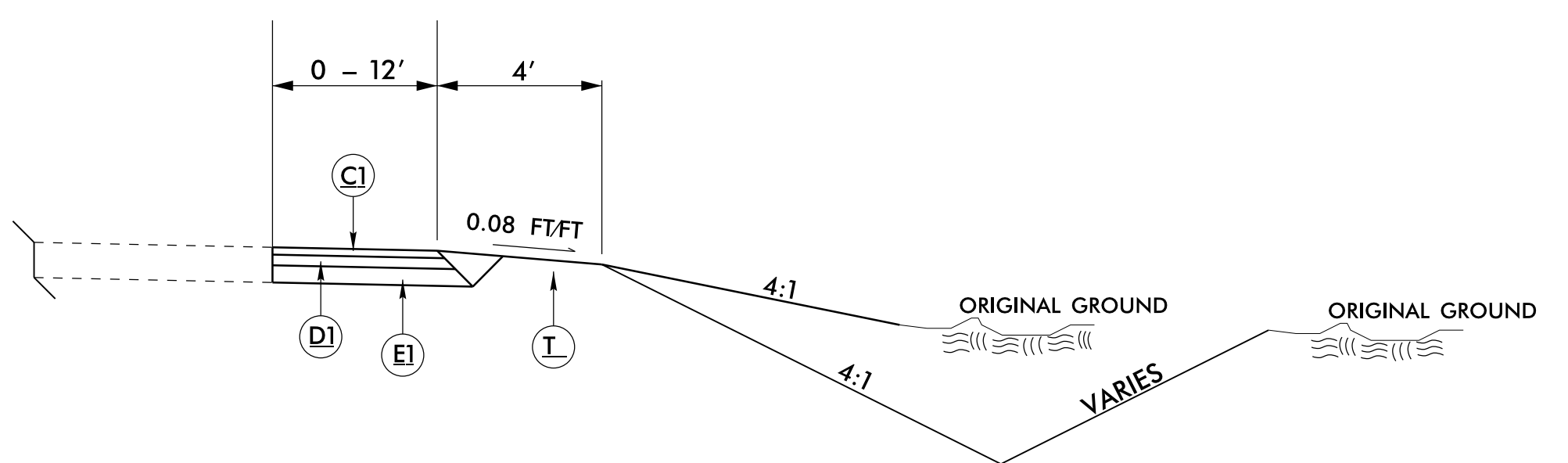
| | |
|-----------|--|
| C1 | PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 171 LBS. PER SQ.YD. |
| D1 | PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. |
| E1 | PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. |
| T | EARTH MATERIAL. |
| U | EXISTING PAVEMENT. |



NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION #1 (NTS)
 -L- STA 12+50.00 TO STA 14+15.58 CL
 -L- STA 15+29.00 TO STA 16+00.00 CL



USE TYPICAL SECTION #1 (NTS)
 -L- STA 12+50.00 TO STA 13+57.35 RT

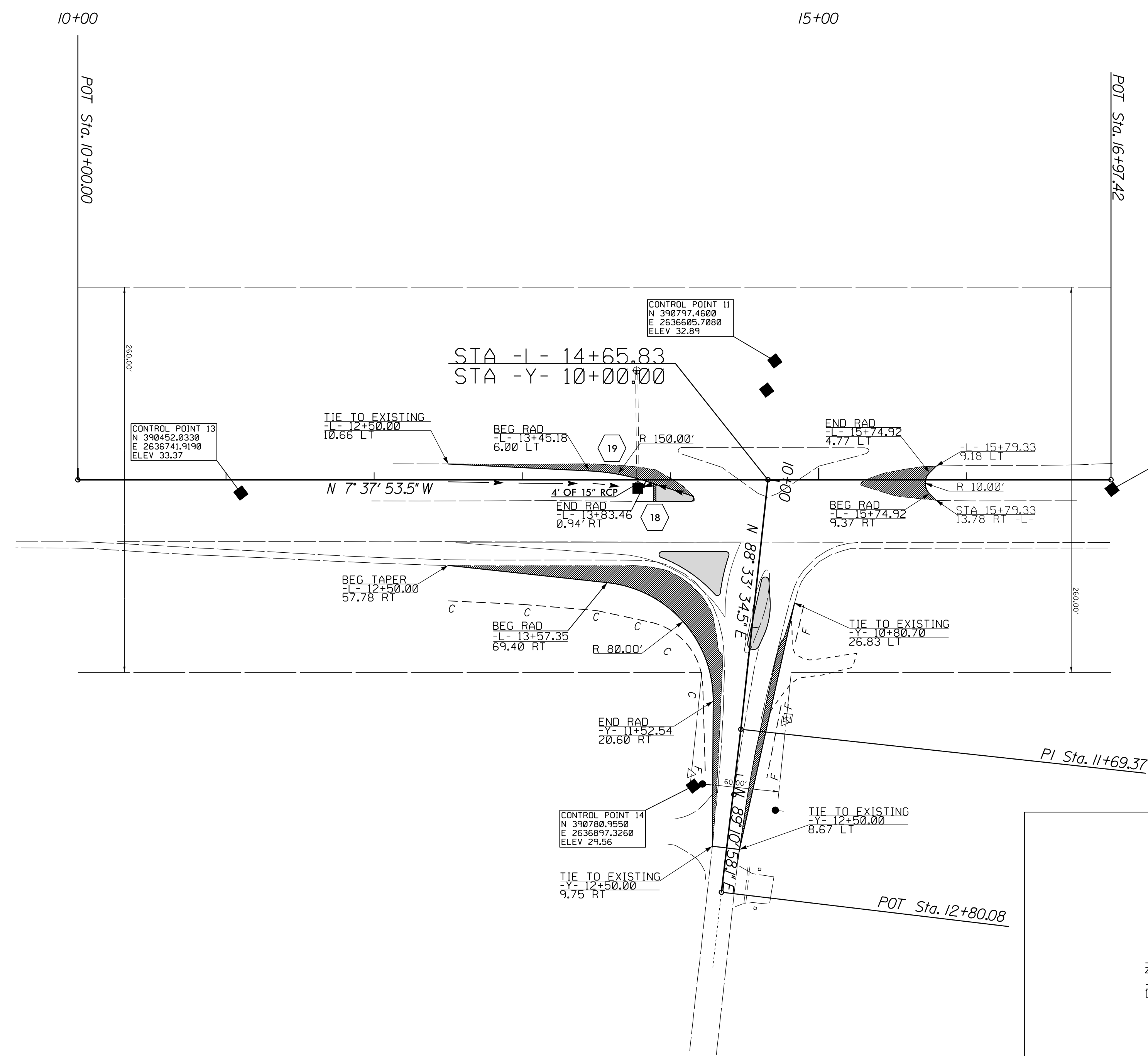
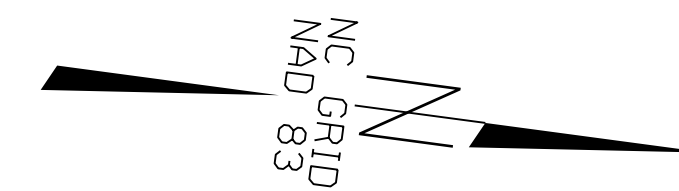
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

| ITEM | SECT | QUANTITY | UNIT | ITEM DESCRIPTION |
|------|------|----------|------|---|
| 1 | 800 | 1 | LS | MOBILIZATION |
| 2 | 801 | 1 | LS | CONSTRUCTION SURVEYING |
| 3 | SP | 1 | LS | GRADING |
| 4 | 300 | 10 | TON | FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES |
| 5 | 300 | 10 | SY | FOUNDATION CONDITIONING GEOTEXTILE |
| 6 | 310 | 4 | LF | 18" RC PIPE CULVERTS, CLASS III |
| 7 | 610 | 200 | TON | ASPHALT CONCRETE BASE COURSE B25.0B |
| 8 | 610 | 110 | TON | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B |
| 9 | 610 | 55 | TON | ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B |
| 10 | 620 | 20 | TON | ASPHALT BINDER FOR PLANT MIX |
| 11 | 840 | 1 | EA | FRAMES WTH TWO GRATES, STD. 840.22 |
| 12 | 840 | 1 | EA | MASONRY DRAINAGE STRUCTURES |
| 13 | 852 | 150 | SY | 5' MONOLITHIC CONCRETE ISLANDS (KEYED IN) |
| 14 | 1605 | 130 | LF | TEMPORARY SILT FENCE |
| 15 | 1610 | 1 | TON | SEDIMENT CONTROL STONE |
| 16 | 1615 | 1 | ACRE | TEMPORARY MULCHING |
| 17 | 1620 | 50 | LB | SEED FOR TEMPORARY SEEDING |
| 18 | 1620 | 0.2 | TON | FERTILIZER FOR TEMPORARY SEEDING |
| 19 | 1632 | 40 | LF | 1/4" HARDWARE CLOTH |
| 20 | SP | 90 | LF | WATTLE |
| 21 | SP | 5 | LB | POLYACRYLAMIDE (PAM) |
| 22 | 1660 | 1 | ACRE | SEEDING AND MULCHING |
| 23 | 1661 | 50 | LB | SEED FOR REPAIR SEEDING |
| 24 | 1661 | 0.2 | TON | FERTILIZER FOR REPAIR SEEDING |
| 25 | SP | 3 | EA | RESPONSE FOR EROSION CONTROL |
| 26 | 1205 | 1,200 | LF | THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) |
| 27 | 1205 | 280 | LF | THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS) |
| 28 | 1205 | 50 | LF | THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) |

REVISIONS

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 8/17/99

| | |
|-----------------------------------|---------------------|
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| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| | |

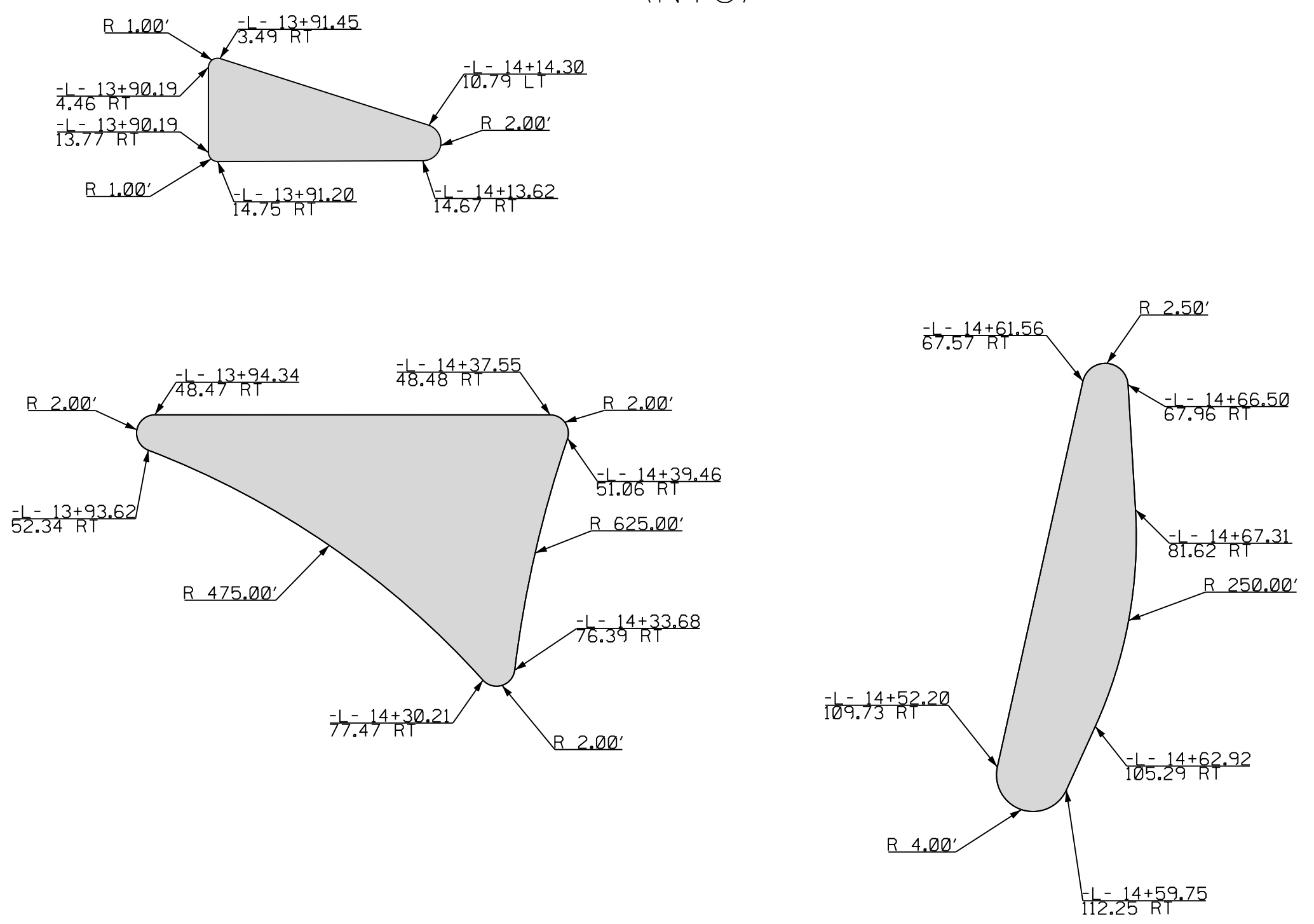


REVISIONS

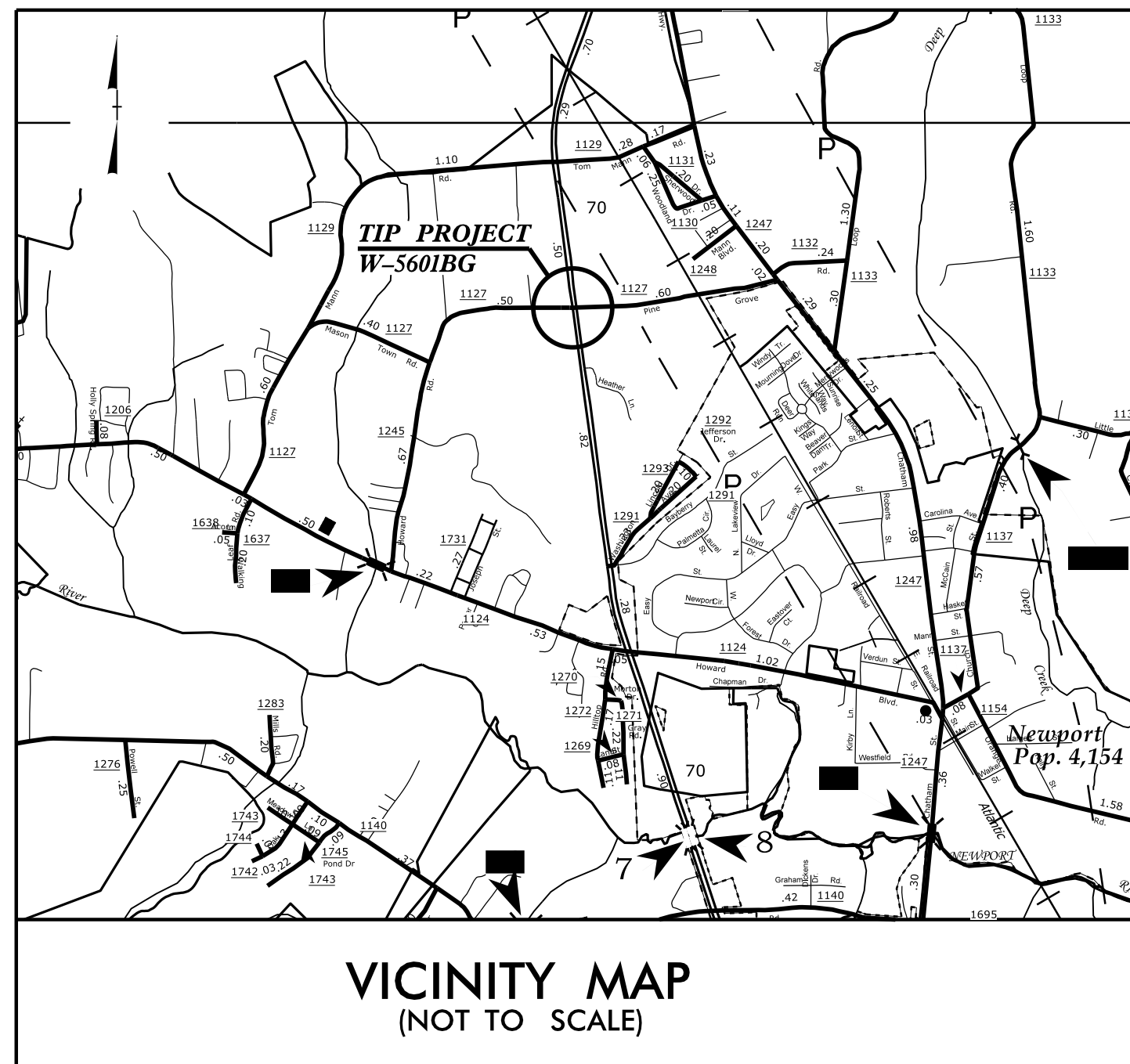
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MONOLITHIC ISLAND DETAIL (NTS)



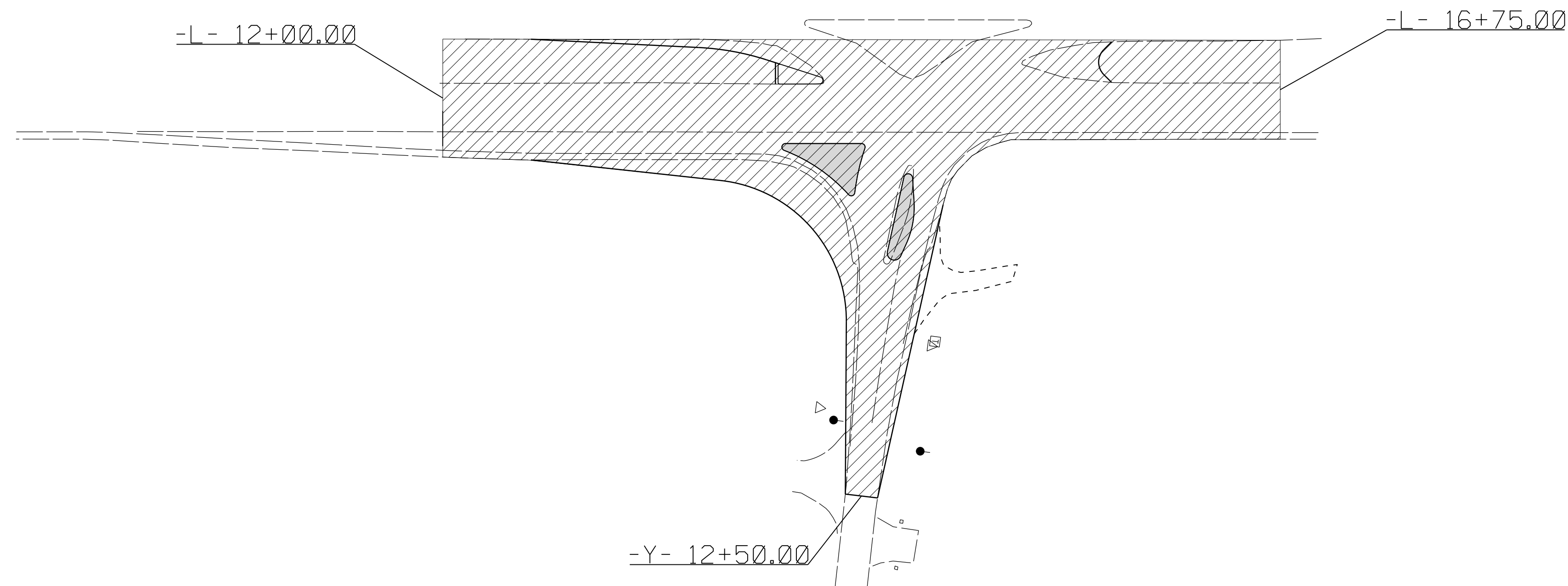
TIP PROJECT: W-5601BG



VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: INTERSECTION OF US 70 AND MASONTOWN RD



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | W-5601BG | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 50138.1.60 | HSIP-0070(190) | PE | |
| 50138.2.60 | HSIP-0070(190) | RW | |
| 50138.3.60 | HSIP-0070(190) | CONST | |

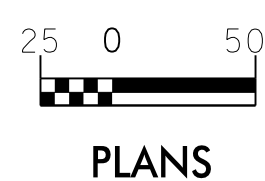
EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|--|--------|
| 1630.05 | Temporary Silt Ditch | TD |
| 1630.05 | Temporary Diversion | TD |
| 1605.01 | Temporary Silt Fence | |
| 1606.01 | Special Sediment Control Fence | ▲▲▲ |
| 1622.01 | Temporary Berms and Slope Drains | — |
| 1630.02 | Silt Basin Type B | ▨ |
| 1633.01 | Temporary Rock Silt Check Type-A | ▨ |
| | Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM) | ▨ |
| 1633.02 | Temporary Rock Silt Check Type-B | ▨ |
| | Wattle / Coir Fiber Wattle | — |
| | Wattle / Coir Fiber Wattle with Polyacrylamide (PAM) | — |
| 1654.01 | Temporary Rock Sediment Dam Type-A | ▨ |
| 1654.02 | Temporary Rock Sediment Dam Type-B | ▨ |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A | ⊓ |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | ⊓ |
| 1650.04 | Stilling Basin | ▭ |
| 1650.06 | Special Stilling Basin | ▭ |
| | Rock Inlet Sediment Trap: | |
| 1632.01 | Type A | A |
| 1632.02 | Type B | B |
| 1632.05 | Type C | C |
| | Skimmer Basin | ▭ |
| | Tiered Skimmer Basin | ▭ |
| | Infiltration Basin | ▭ |

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

GRAPHIC SCALE



PLANS

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

2012 STANDARD SPECIFICATIONS

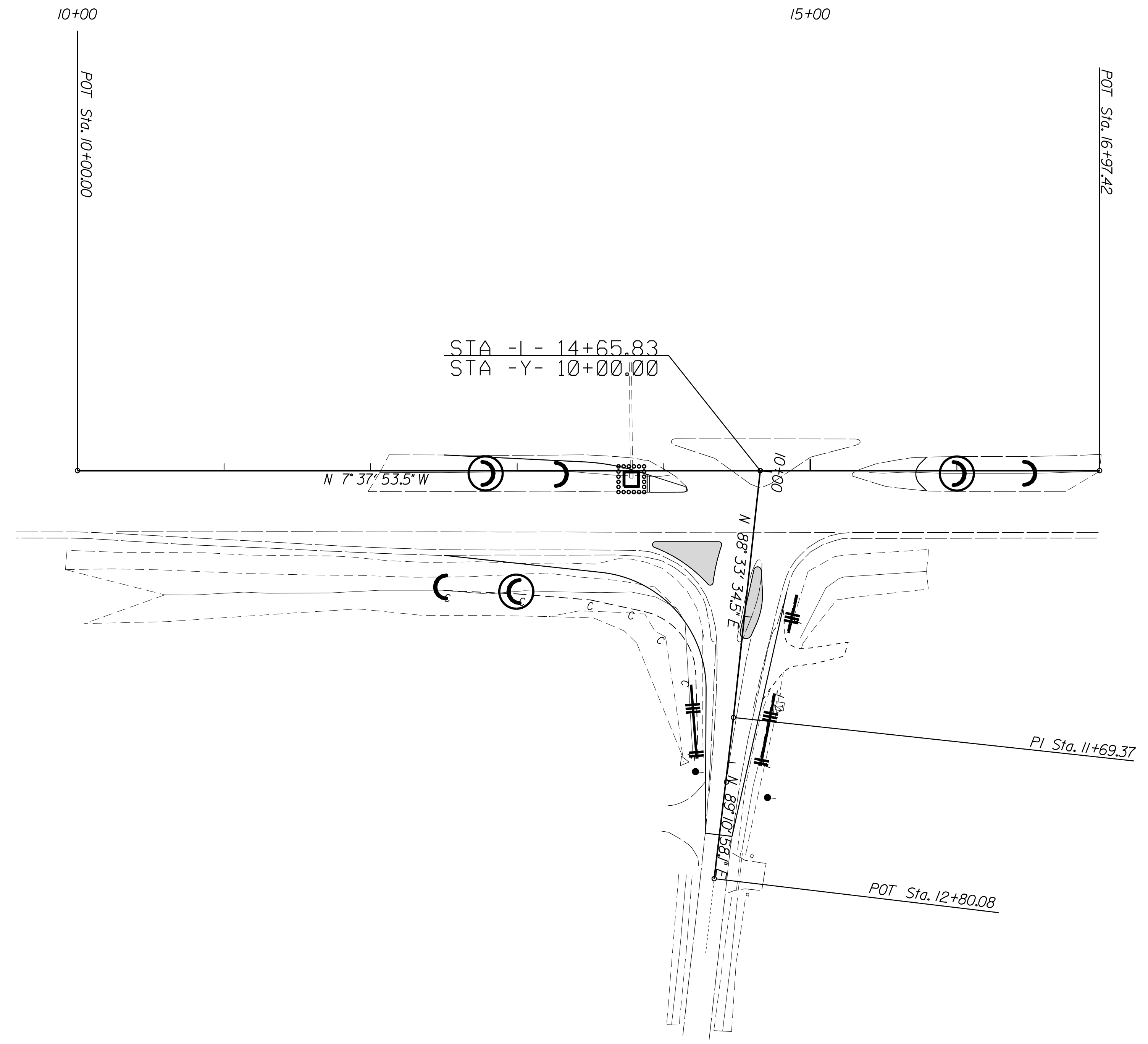
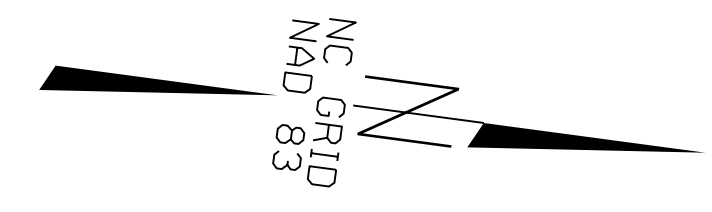
Prepared in the Office of:
DIVISION 2 DDC
1704 NORTH GREENE STREET
GREENVILLE, NC 27835

Timothy Pinkham
Level III
Certification # 3510

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 1604.01 Railroad Erosion Control Detail | 1632.01 Rock Inlet Sediment Trap Type A |
| 1605.01 Temporary Silt Fence | 1632.02 Rock Inlet Sediment Trap Type B |
| 1606.01 Special Sediment Control Fence | 1632.03 Rock Inlet Sediment Trap Type C |
| 1607.01 Gravel Construction Entrance | 1633.01 Temporary Rock Silt Check Type A |
| 1622.01 Temporary Berms and Slope Drains | 1633.02 Temporary Rock Silt Check Type B |
| 1630.01 Riser Basin | 1633.01 Temporary Rock Silt Check Type A |
| 1630.02 Silt Basin Type B | 1634.01 Temporary Rock Sediment Dam Type A |
| 1630.03 Temporary Silt Ditch | 1634.02 Temporary Rock Sediment Dam Type B |
| 1630.04 Stilling Basin | 1635.01 Rock Pipe Inlet Sediment Trap Type A |
| 1630.05 Temporary Diversion | 1635.02 Rock Pipe Inlet Sediment Trap Type B |
| 1630.06 Special Stilling Basin | 1640.01 Coir Fiber Baffle |
| 1631.01 Matting Installation | 1645.01 Temporary Stream Crossing |



STA -I- 14+65.83
STA -Y- 10+00.00

N 7° 37' 53.5\"/>

N 88° 33' 34.5\"/>

PI Sta. 11+69.37

POT Sta. 12+80.08

SOIL STABILIZATION TIMEFRAMES

| SITE DESCRIPTION | STABILIZATION TIME | TIMEFRAME EXCEPTIONS |
|--|--------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HOW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH. |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE, EXCEPT FOR PERIMETERS AND HOW ZONES. |

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

| Std. # | Description | Symbol |
|---------|---------------------------------|--------|
| 1632.03 | Rock Inlet Sediment Trap Type C | |
| SP | Wattle with Polyacrylamide | |
| SP | Wattle | |

REVISIONS

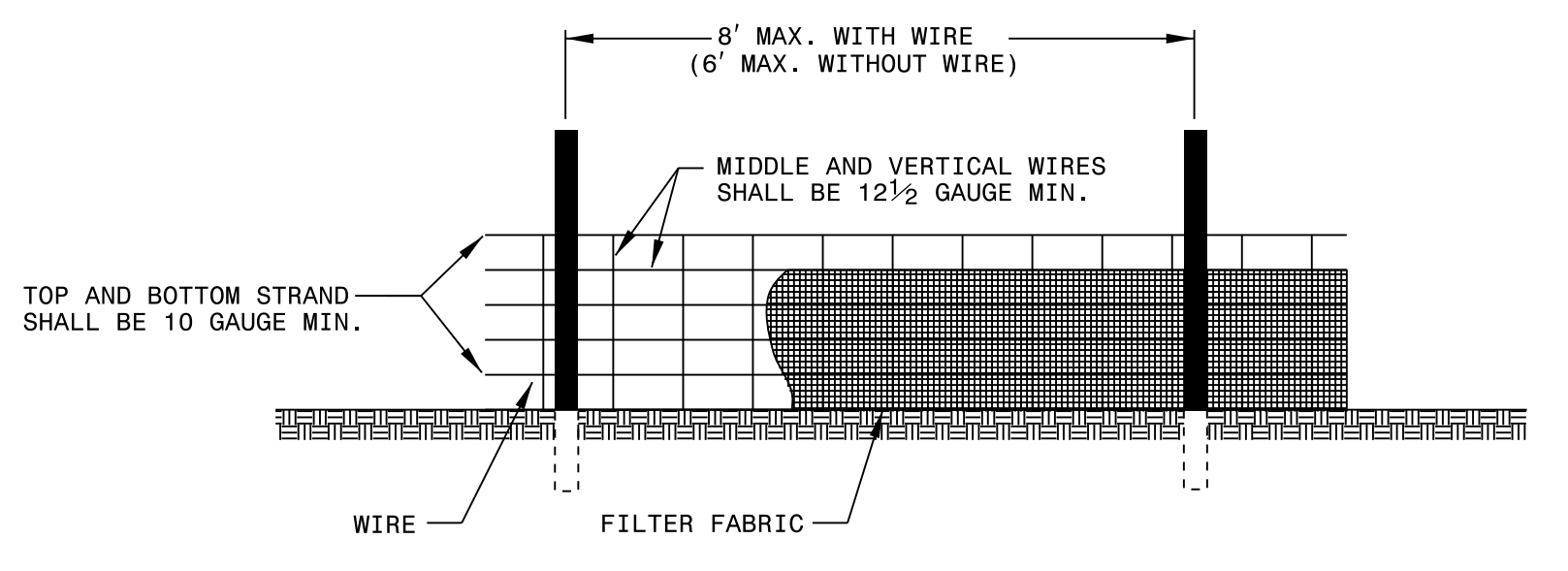
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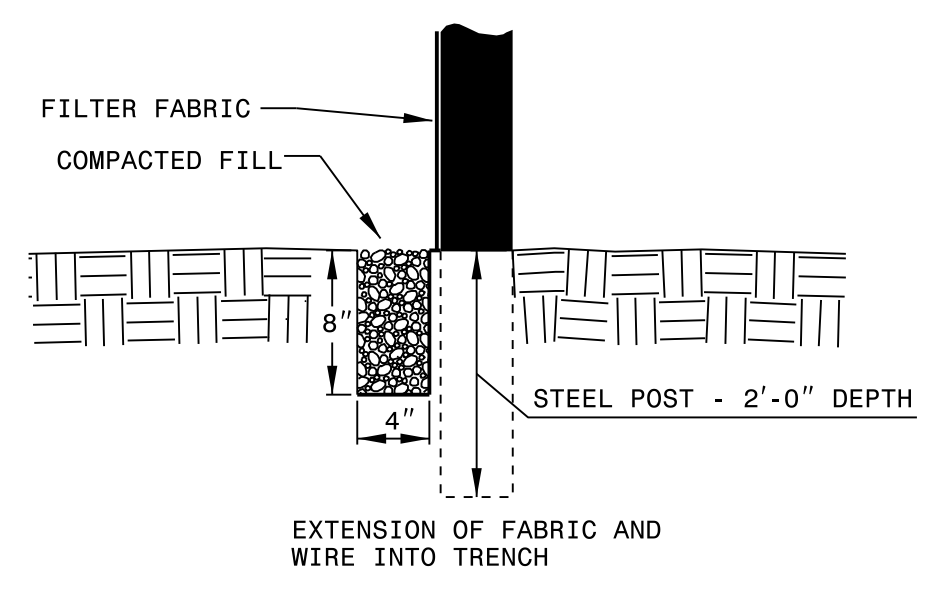
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TEMPORARY SILT FENCE

SHEET 1 OF 1 1605.01



NOTES
 USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

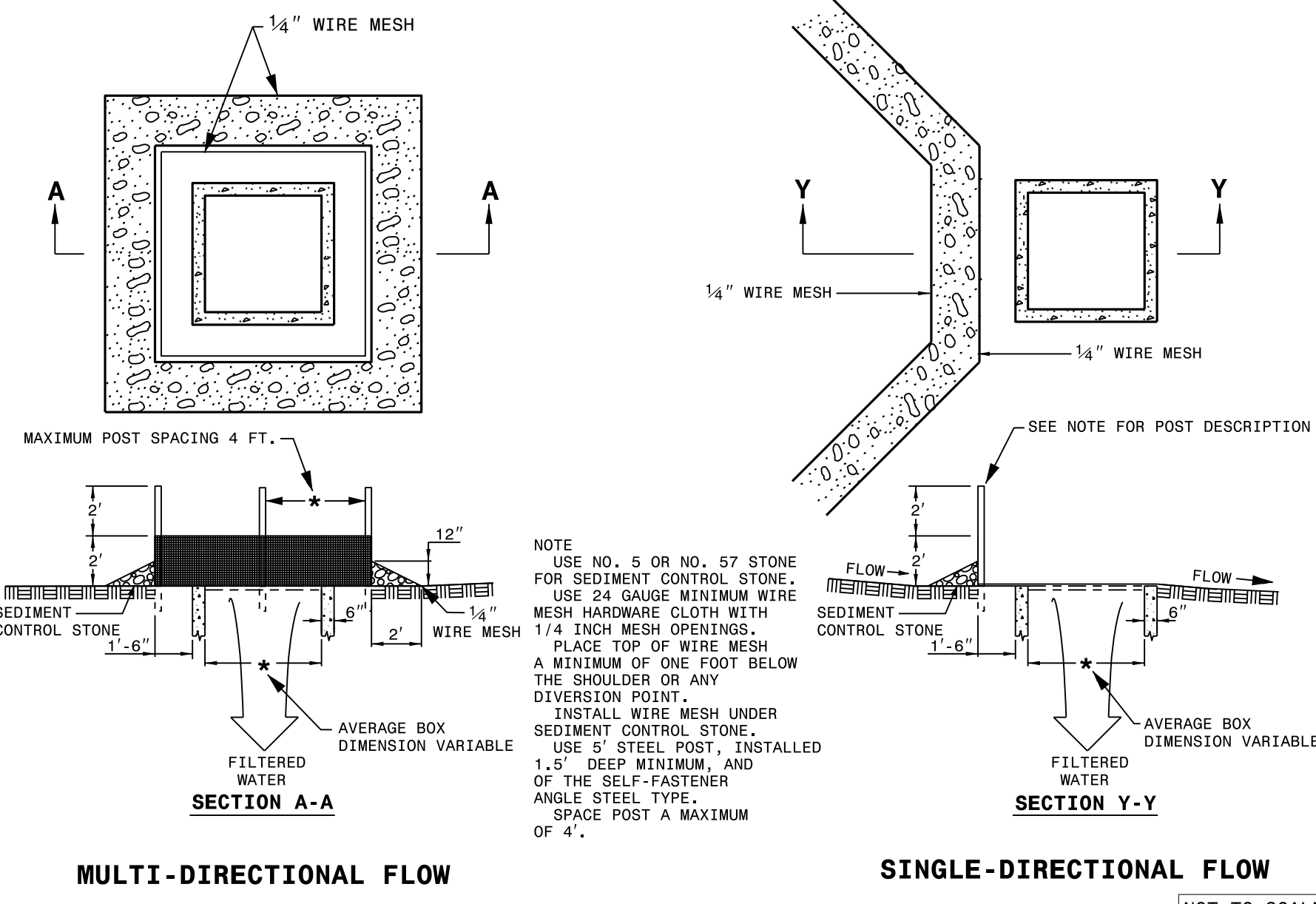
ENGLISH STANDARD DRAWING FOR TEMPORARY SILT FENCE

SHEET 1 OF 1 1605.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 1 OF 1 1632.03



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

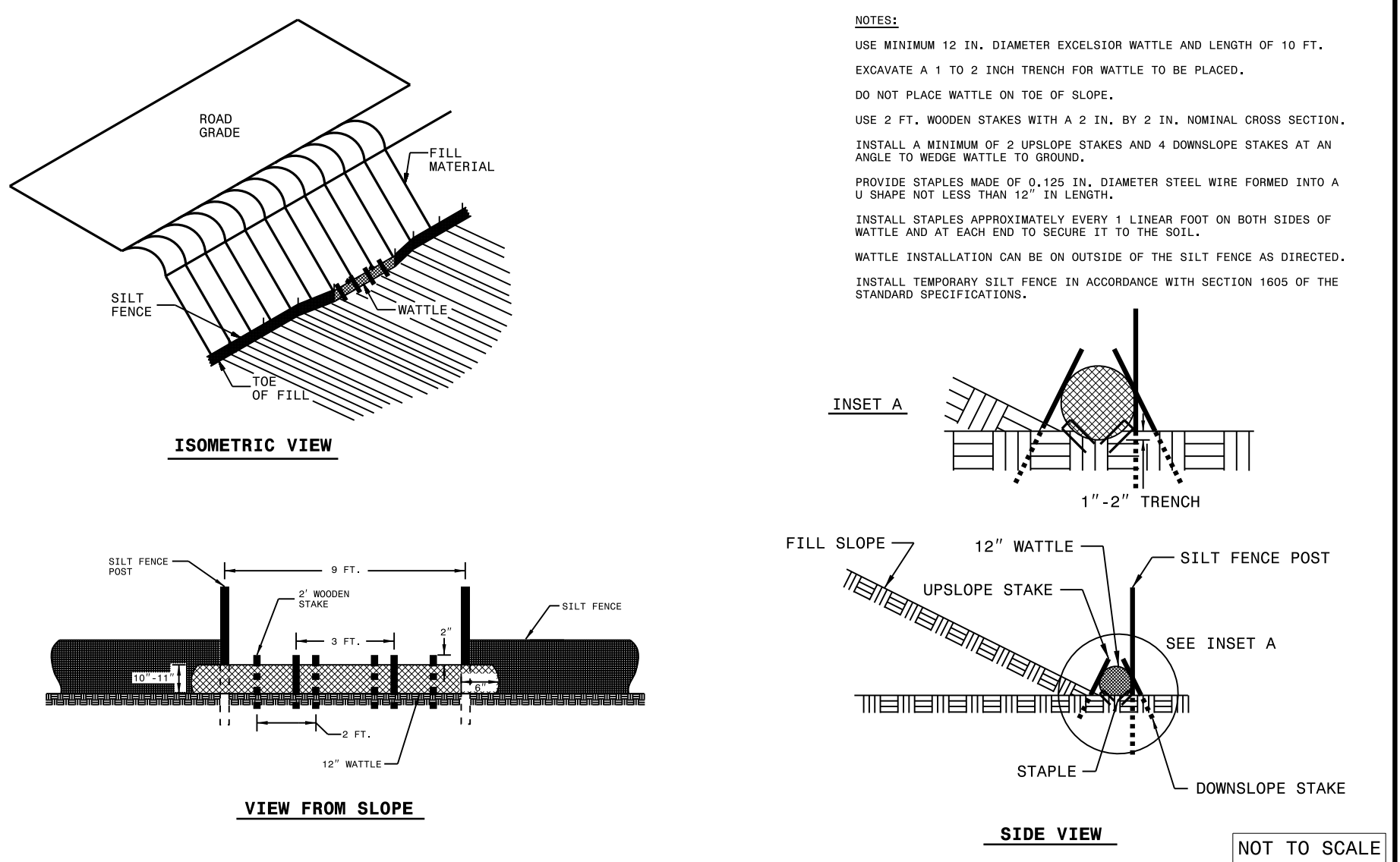
ENGLISH STANDARD DRAWING FOR ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 1 OF 1 1632.03

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

SHEET 1 OF 1 1632.03

SILT FENCE WATTLE BREAK DETAIL



NOT TO SCALE

MATTING INSTALLATION DETAIL

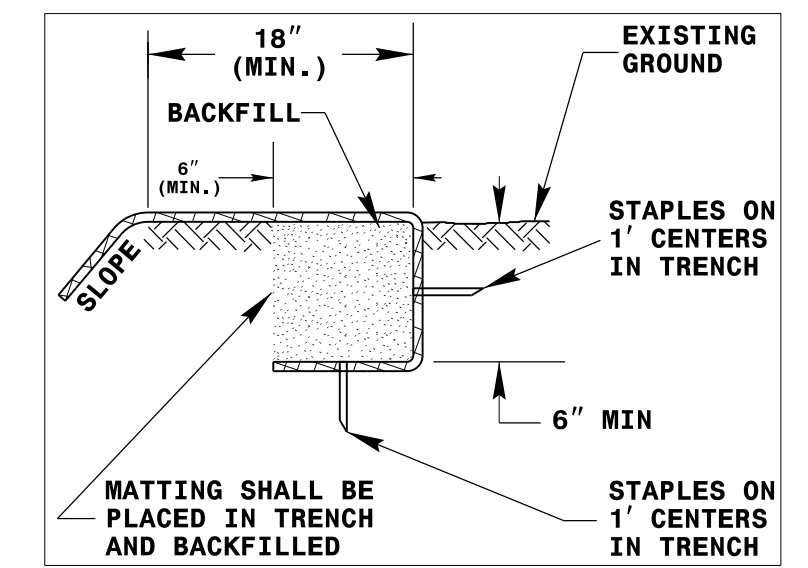
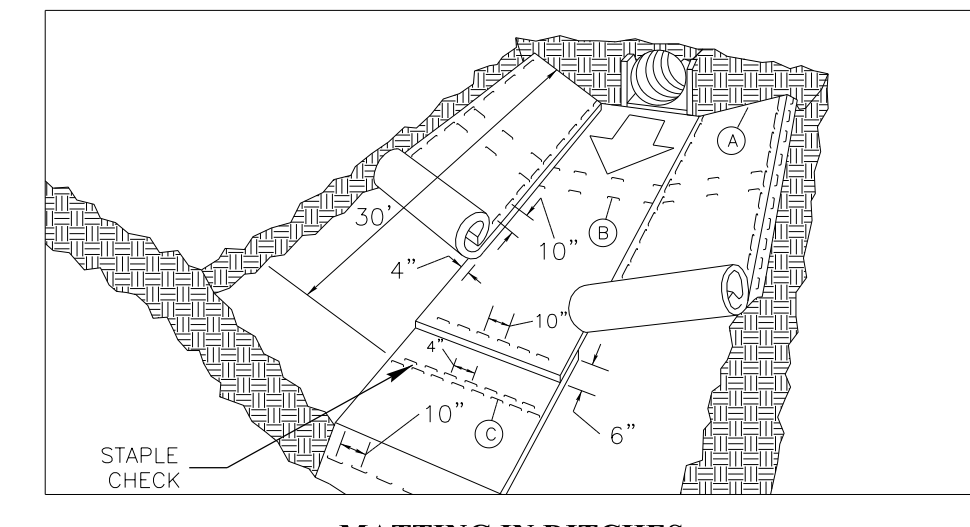
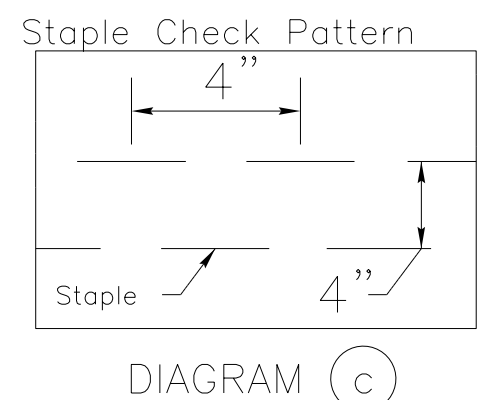
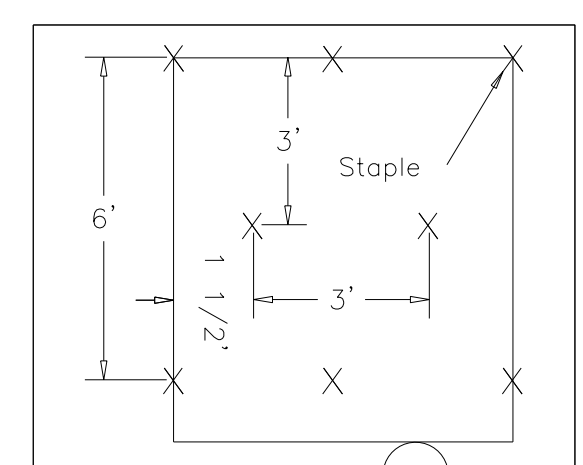
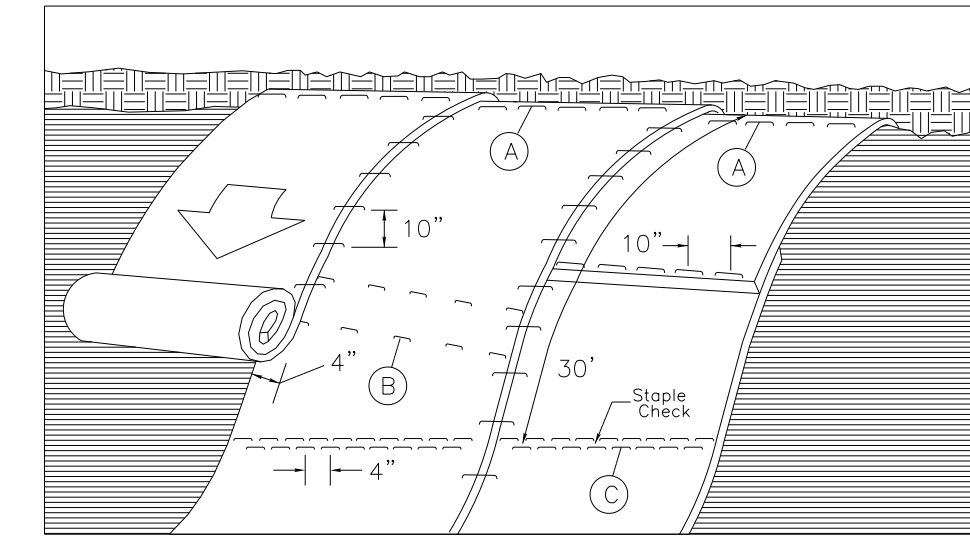


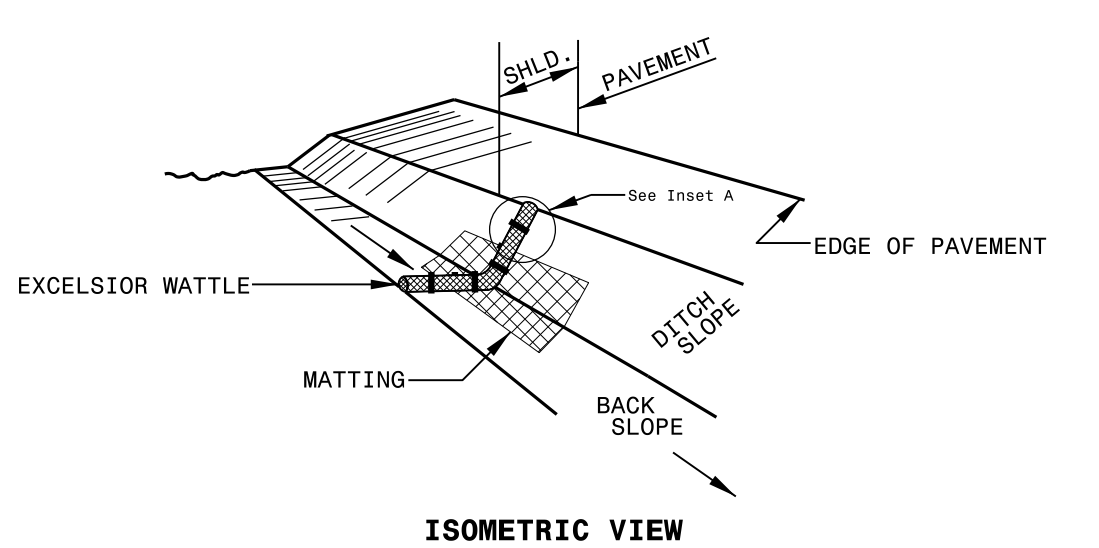
DIAGRAM (A)



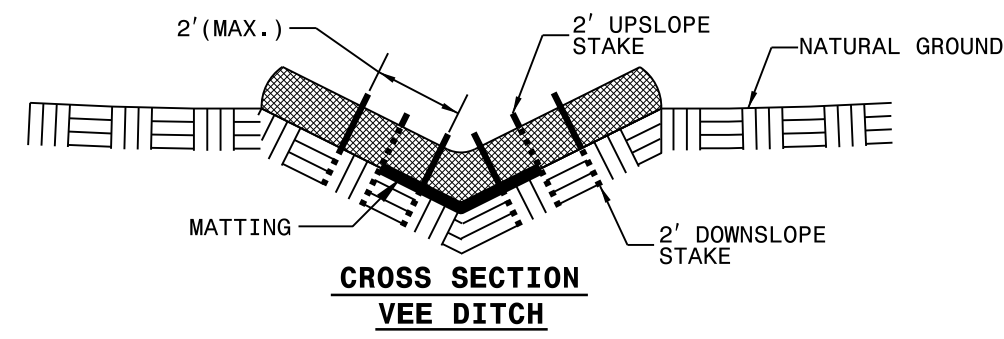
NOTES:
 THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.
 STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

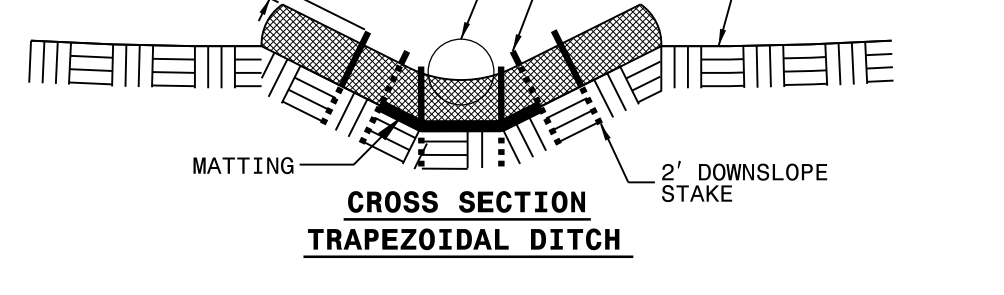
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW

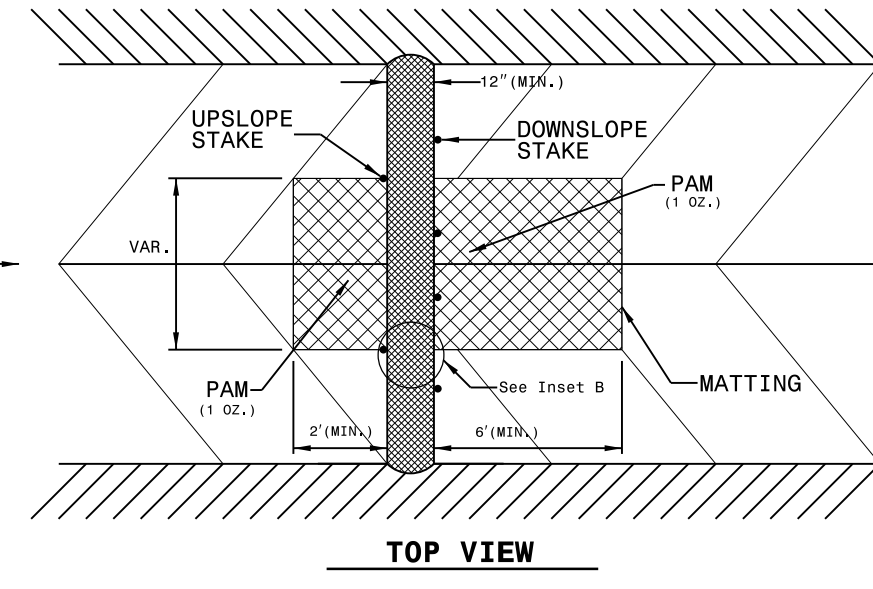
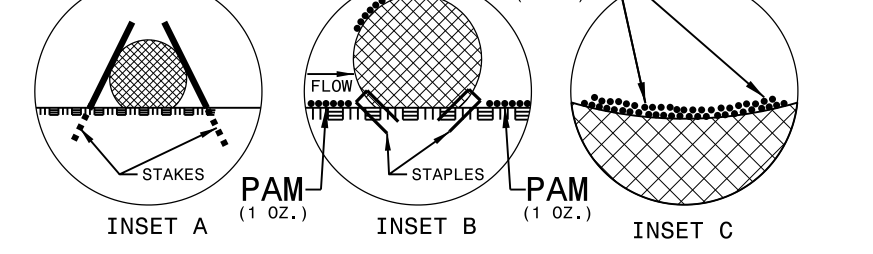


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:
 USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



NOT TO SCALE

REVISIONS

8/17/99

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PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

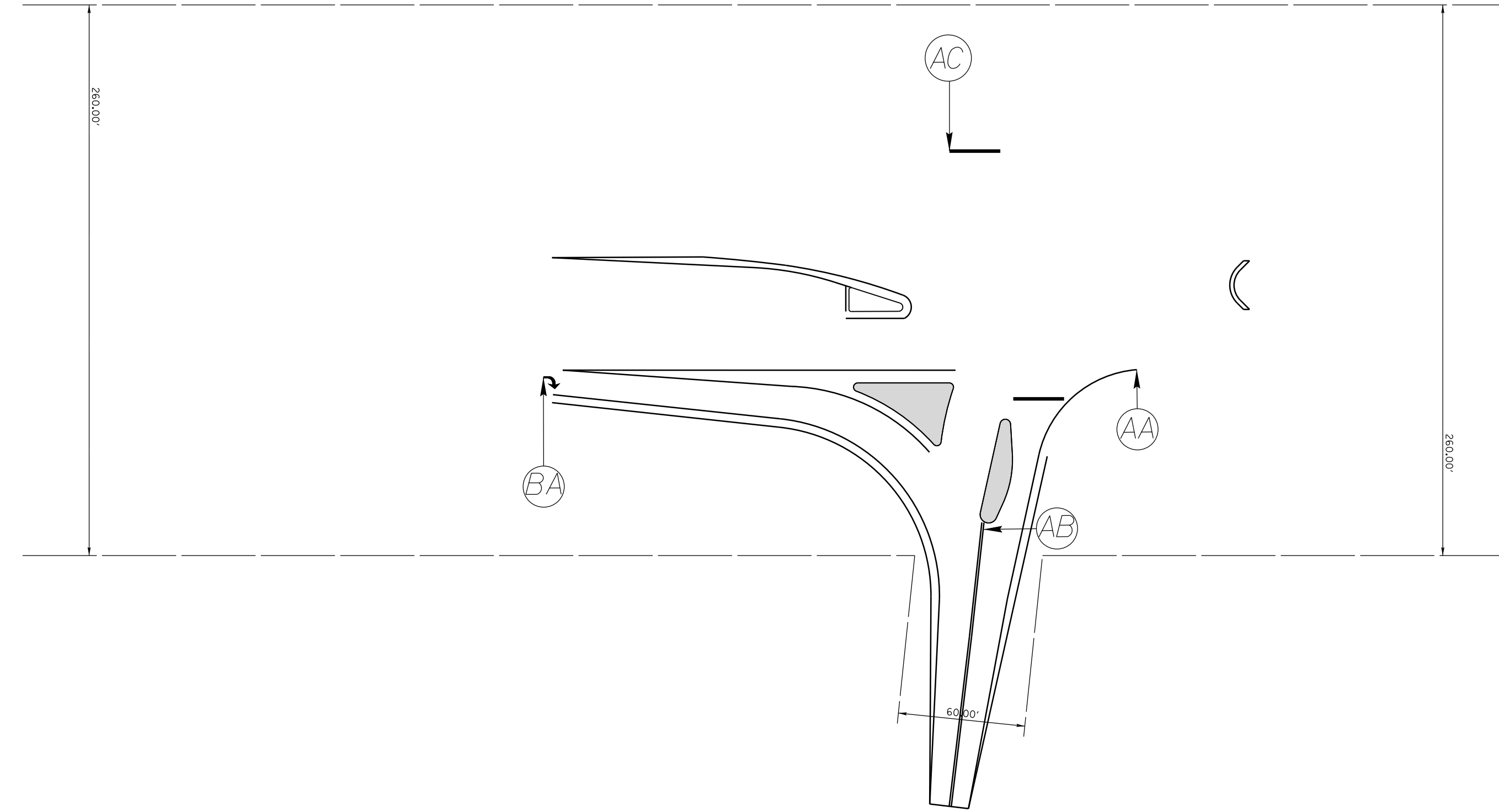
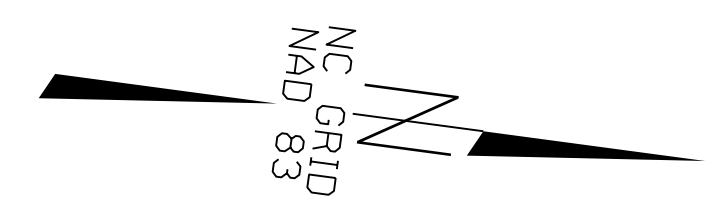
- AA - THERMOPLASTIC (6" WHITE, 90 MILS) EDGE LINE
- AB - THERMOPLASTIC (4" YELLOW, 120 MILS) SOLID DOUBLE YELLOW
- AC - THERMOPLASTIC (24" WHITE, 120 MILS) STOP BAR

PAVEMENT MARKING SYMBOLS

- BA - THERMOPLASTIC (RIGHT ARROW, 90 MILS)

NOTE

PAINT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM. ALL EDGE LINES SHALL BE 2' OFF EOP.



REVISIONS

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

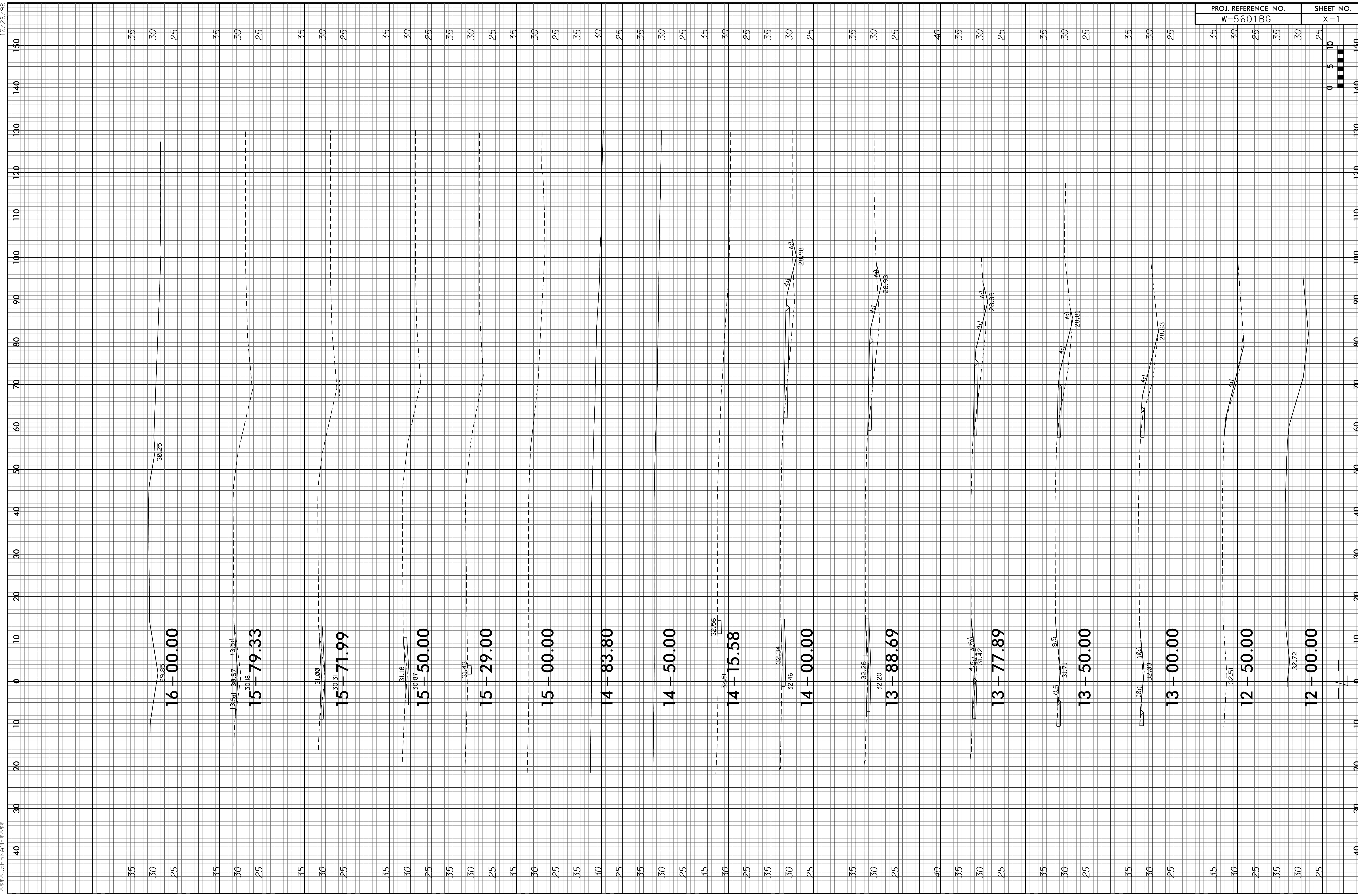
CROSS-SECTION SUMMARY
IN CUBIC YARDS

| LOCATION (-L-) | UNCLASSIFIED EXCAVATION | UNDERCUT | EMBANKMENT |
|-------------------|----------------------------|----------|------------|
| 12+00.00 | 0 | | 0 |
| 12+50.00 | 1 | | 5 |
| 13+00.00 | 9 | | 27 |
| 13+50.00 | 17 | | 46 |
| 13+77.89 | 12 | | 28 |
| 13+88.69 | 7 | | 11 |
| 14+00.00 | 10 | | 11 |
| 14+15.58 | 7 | | 8 |
| | | | |
| 15+00.00 | 0 | | 0 |
| 15+29.00 | 1 | | 0 |
| 15+50.00 | 4 | | 0 |
| 15+71.99 | 8 | | 1 |
| 15+79.33 | 1 | | 2 |
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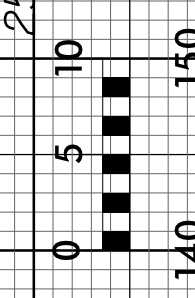
| LOCATION (-Y-) | UNCLASSIFIED EXCAVATION | UNDERCUT | EMBANKMENT |
|-------------------|----------------------------|----------|------------|
| 11+00.00 | 0 | | 0 |
| 11+50.00 | 16 | | 6 |
| 12+00.00 | 12 | | 6 |
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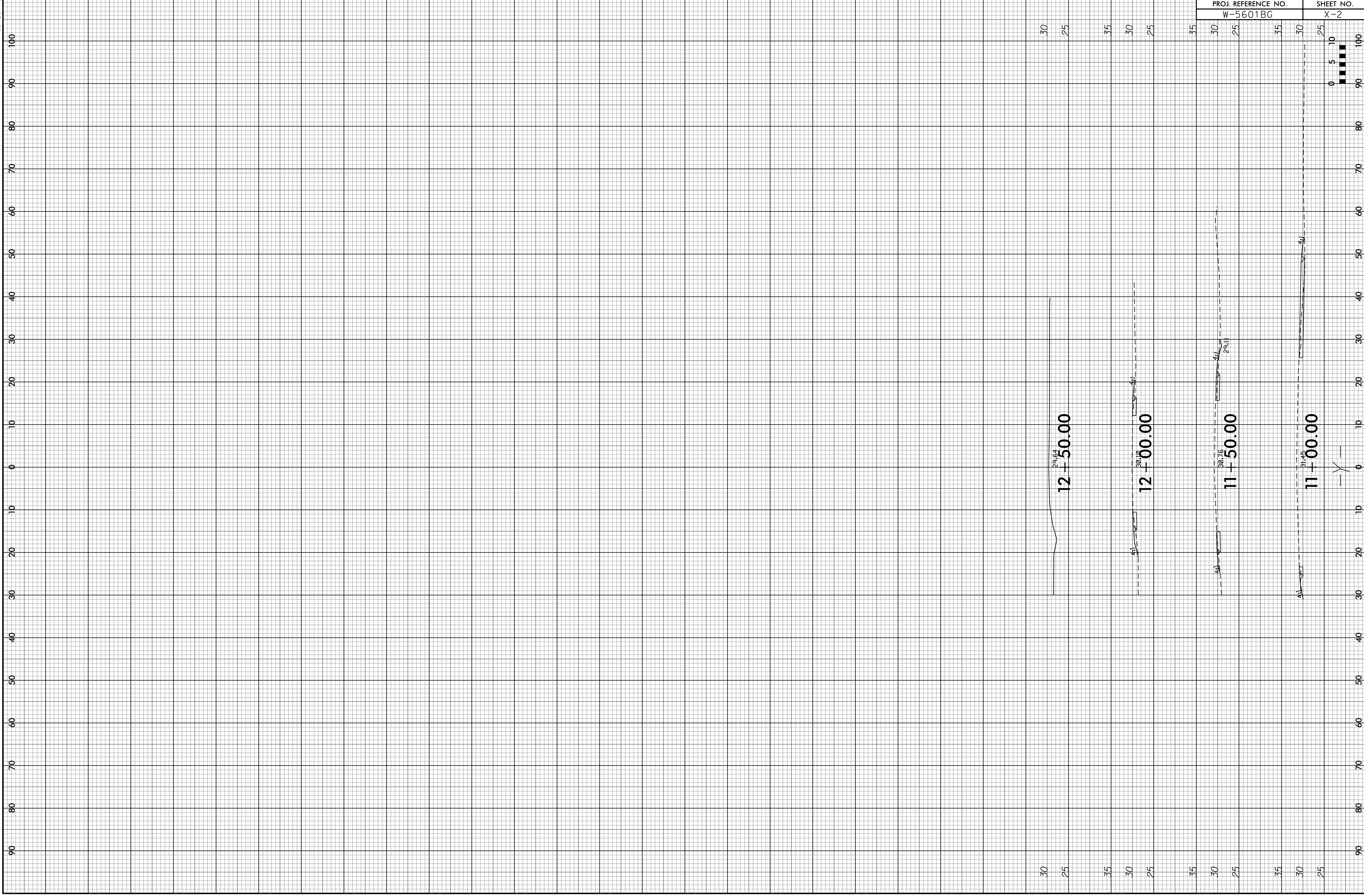
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,
BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING
AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE
CONTRACT LUMP SUM PRICE FOR "GRADING."



| PROJ. REFERENCE NO. | | | | SHEET NO. | |
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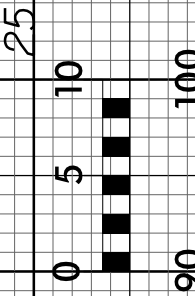
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|---------------------|--|-----------|
| W-5601BG | | X-2 |

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12+50.00
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11+00.00



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