See Sheet 1-A For Index of Sheets

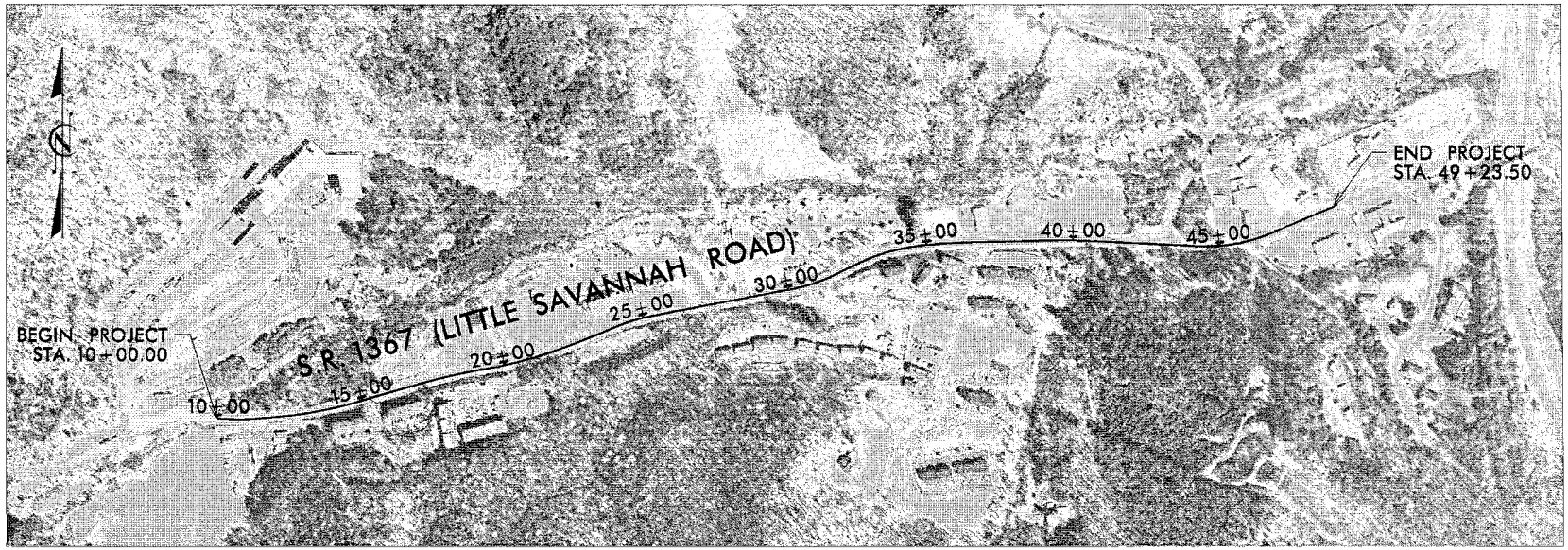
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JACKSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	43599	1	51

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

LOCATION: S.R. 1367 (LITTLE SAVANNAH ROAD)
FROM 4,547' SOUTHWEST OF NC 107
TO 620' SOUTHWEST OF NC 107
TYPE OF WORK: GRADING, PAVING, CURB & GUTTER, DRAINAGE, SIDEWALK, TRAFFIC CONTROL



CONTRACT: DN00207

TIP PROJECT: N/A

GRAPHIC SCALES

25' 12.5' 0 25' 50'
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

DESIGN DATA

PROJECT LENGTH

-L- LINE = 3,923.5'

Prepared In the Office of:
DIVISION OF HIGHWAYS
178 Henry Bird Rd., Whittier NC, 28789

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

JONATHAN L. WOODARD, P.E.
PROJECT ENGINEER

JEFFREY E. ALSPAUGH, E.I.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: P.E.

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION

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04/08/14

PROJECT REFERENCE NO.	SHEET NO.
43599	1-A
	ROADWAY DESIGN ENGINEER

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
~~3A~~	~~SUMMARY OF DRAINAGE QUANTITIES SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY~~
4 THRU 6	PLAN SHEET
	~~PROFILE SHEET~~
TCP-1 THRU TCP-5	TRAFFIC CONTROL PLANS
PM-1	PAVEMENT MARKING PLANS
~~L-1 THRU L-~~	~~LANDSCAPE PLANS~~
~~RF-1 THRU RF-~~	~~REFORESTATION PLANS~~
EC-1 THRU EC-5	EROSION CONTROL PLANS
~~SIGN-1 THRU SIGN-~~	~~SIGNING PLANS~~
~~U-1 THRU U-~~	~~UTILITIES PLANS~~
X-1 THRU X-32	CROSS-SECTIONS
~~S-1 THRU S-~~	~~STRUCTURE PLANS~~

EFF. 01-17-2012
REV. 10-30-2012
2012 ROADWAY ENGLISH STANDARD DRAWINGS

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
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
	DIVISION 3 - PIPE CULVERTS
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
	DIVISION 8 - INCIDENTALS
816.02	Aggregate Shoulder Drain
838.05	Concrete 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.20	Frames and Wide Slot Flat Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.05	Curb Ramp - Proposed Curb & Gutter
848.06	Curb Ramp - Existing Curb & Gutter
850.01	Concrete Paved Ditches

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.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04
SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH

SHOULDER DRAINS:

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

WESTERN CAROLINA UNIVERSITY; UNKNOWN WATER & SEWER; UNKNOWN POWER

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

CURB RAMPS:

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

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12/05/11

PROJECT REFERENCE NO.	SHEET NO.
43599	1-B

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — IP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

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 C/A Marker
- Existing Control of Access
- Proposed Control of Access
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line

- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

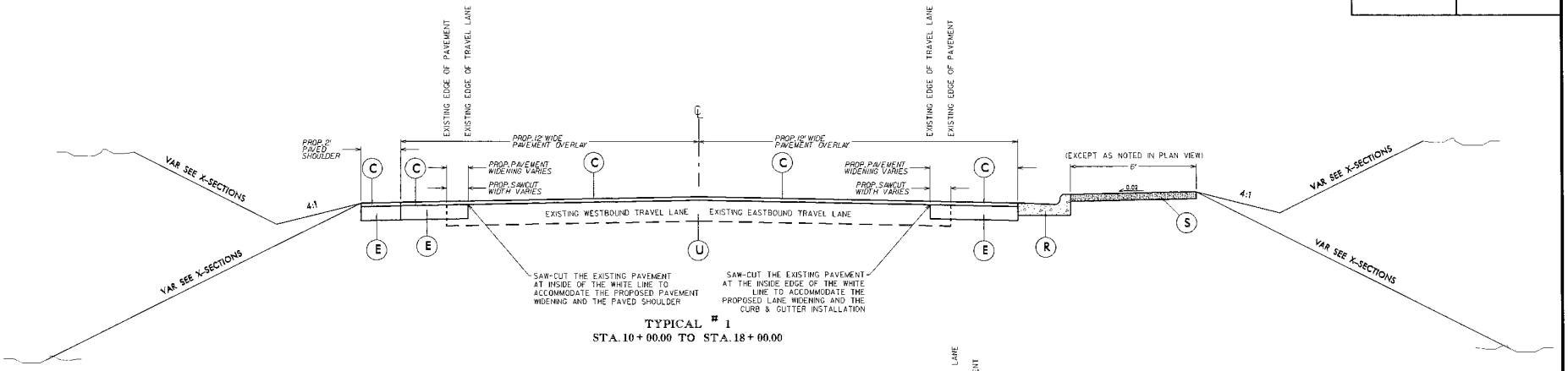
SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

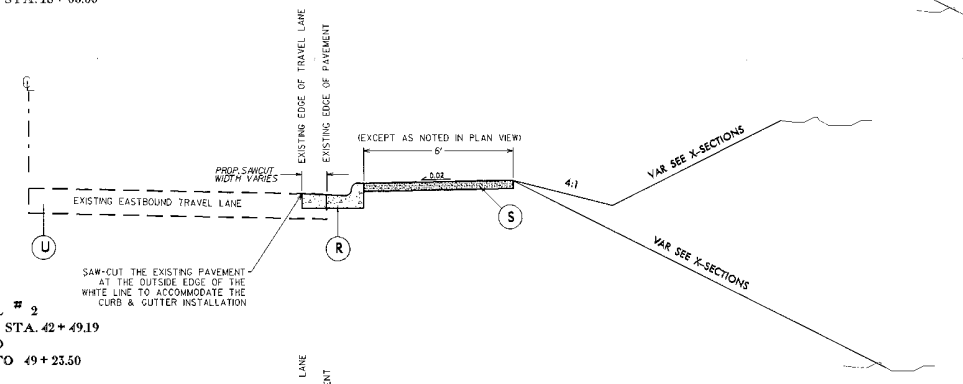
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?U/L
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
43599	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

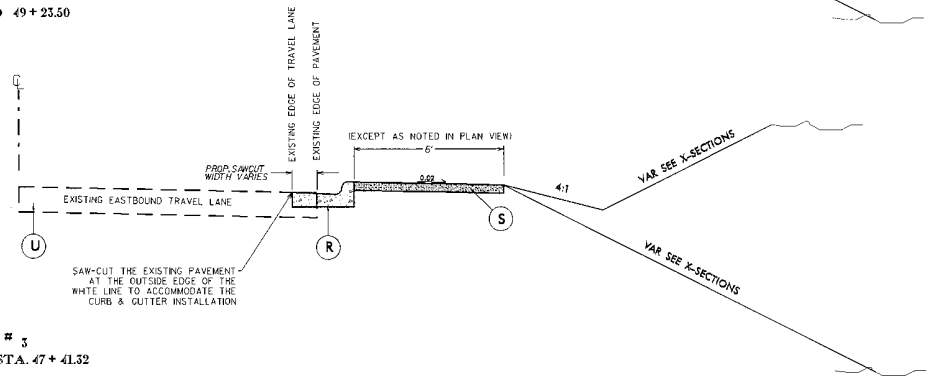


TYPICAL # 1
STA. 10 + 00.00 TO STA. 18 + 00.00

C	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE S25.0B, AT AN AVERAGE RATE OF 458 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
R	2'-6" CONCRETE CURB AND GUTTER.
S	4" CONCRETE SIDEWALK.
U	EXISTING PAVEMENT.



TYPICAL # 2
STA. 18 + 00.00 TO STA. 42 + 49.19
AND
STA. 47 + 41.32 TO 49 + 23.50



TYPICAL # 3
STA. 42 + 49.19 TO STA. 47 + 41.32

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CHECKED BY: _____ DATE: _____

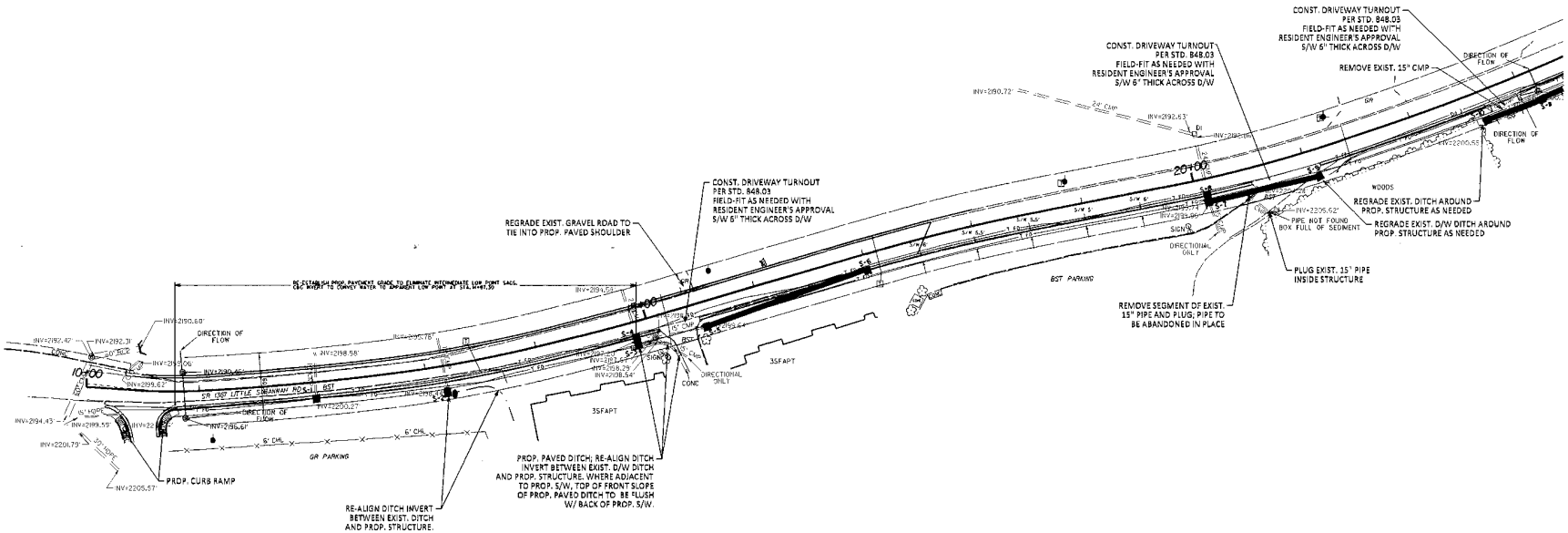
PROJECT REFERENCE NO.	SHEET NO.
43559	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE / THICKNESS OR GAUGE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" .064 | 15" .064 | 18" .064 | 24" .064 | 36" .079 | 42" .109 | 48" .109 | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | *** R.C. PIPE (CLASS V) | ** R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE | * R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL LF FOR PAY QUANTITY, SEE EXCEL COL. "A" + (1.5 X COL."B") LIN. FT. A | B | C.B. STD. 840.01 PER EACH (0' THRU 5.0') | 5.0' THRU 10.0' | 10.0' AND ABOVE | C.B. STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION CATCH BASIN | DROP INLET | C.B. (OPEN THROATED) 840.04 | CONV. EXIST. D.I. TO C.B. (OPEN THROATED) | CONV. EXIST. D.I. TO J.B. | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | J.B. STD. 840.31 OR 840.32 | G.D.I. FRAME & GRATE STD. 840.20 | N.H. FRAME & COVER STD. 840.54 | DRIVEWAY DROP INLET STD. 840.30, LIN.FT. | CONC. COLLARS CL "B" C.Y. STD. 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

PROJECT REFERENCE NO.	SHEET NO.
43599	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

8/17/99

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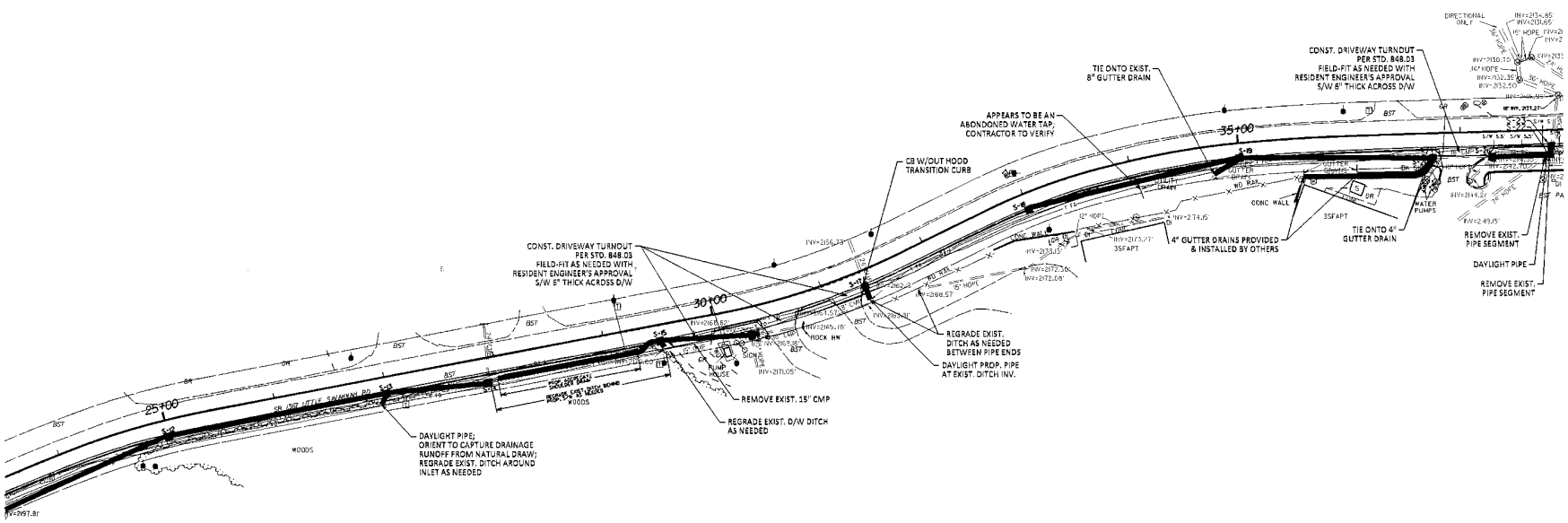
43599	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

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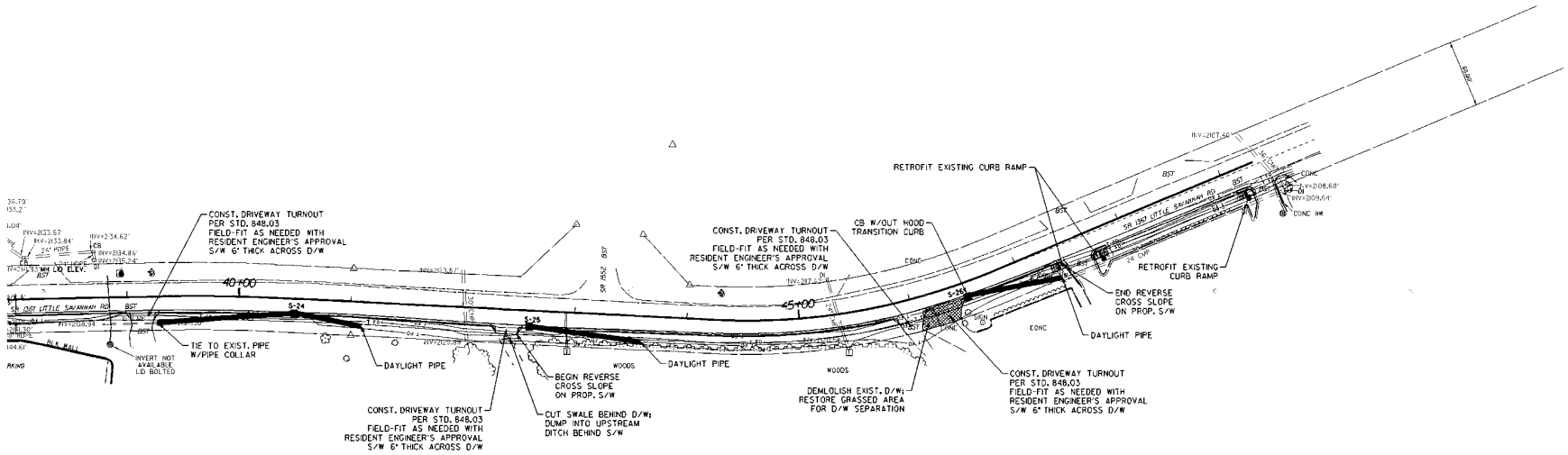
PROJECT REFERENCE NO.	SHEET NO.
43599	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

8/17/94

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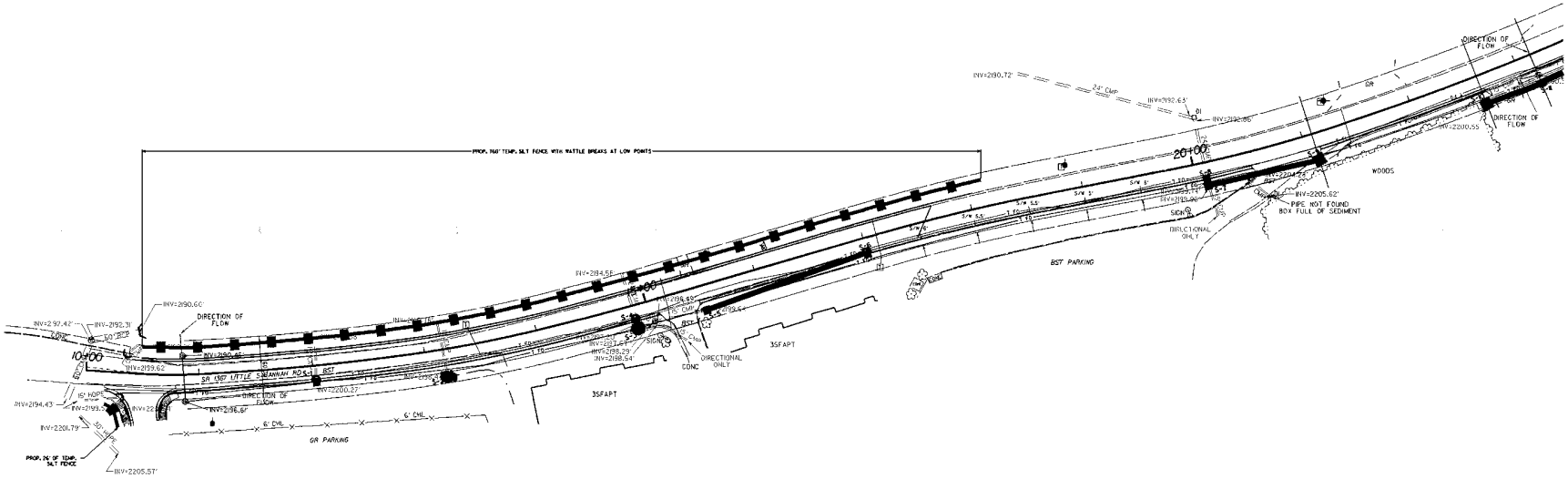
PROJECT REFERENCE NO.	SHEET NO.
43599	EC-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION CONTROL PLAN

SEE SHEETS EC-4 AND EC-5
FOR EROSION CONTROL
SYMBOLS AND DETAILS



JEFFREY E. ALSPAUGH, E.I.
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

GRAPHIC SCALE

50' 25' 0 50' 100'
PLANS

REVISIONS

8/17/99

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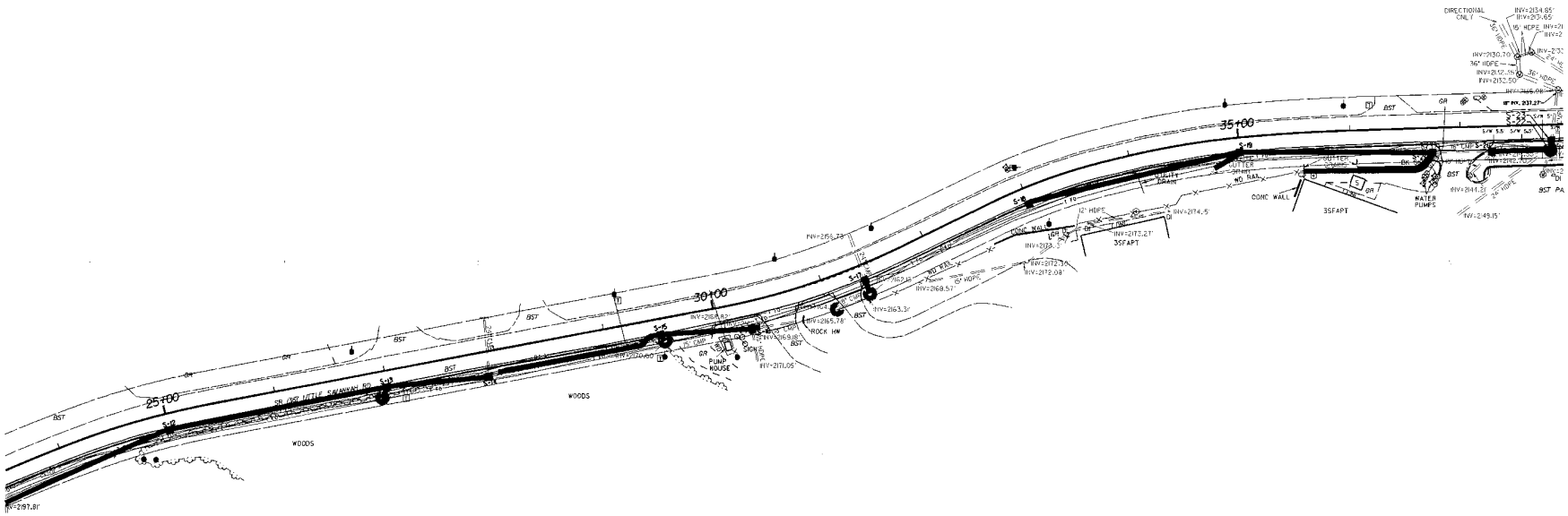
PROJECT REFERENCE NO.	SHEET NO.
43599	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION CONTROL PLAN

SEE SHEETS EC-4 AND EC-5
FOR EROSION CONTROL
SYMBOLS AND DETAILS



JEFFREY E. ALSPAUGH, E.I.
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

GRAPHIC SCALE

50' 25' 0 50' 100'

PLANS

REVISIONS

8/17/99

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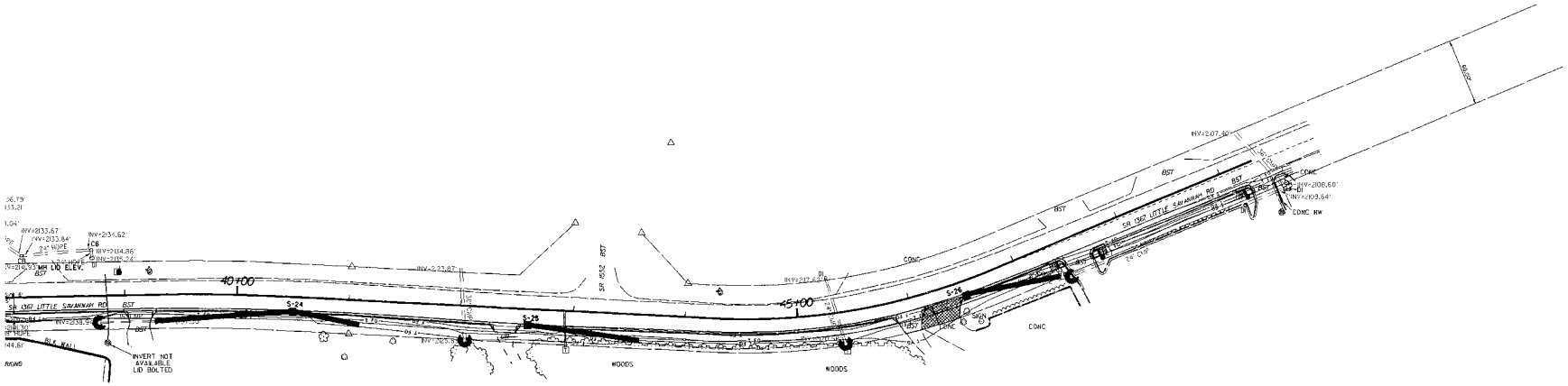
PROJECT REFERENCE NO.	SHEET NO.
43599	EC-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEETS EC-4 AND EC-5
FOR EROSION CONTROL
SYMBOLS AND DETAILS



REVISIONS

JEFFREY E. ALSPAUGH, E.I.
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

GRAPHIC SCALE

50' 25' 0 50' 100'

PLANS

8/17/99

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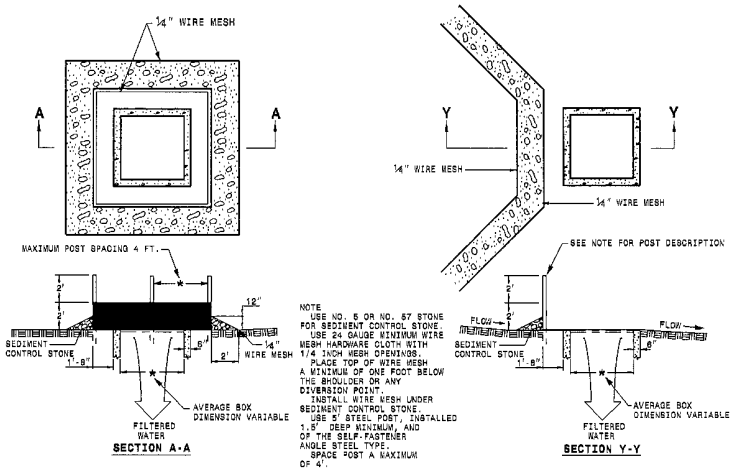
PROJECT REFERENCE NO.	SHEET NO.
43599	EC-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ROCK INLET SEDIMENT TRAP TYPE 'C'



NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 5' STEEL POST, INSTALLED 1.5' DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4'.

MULTI-DIRECTIONAL FLOW

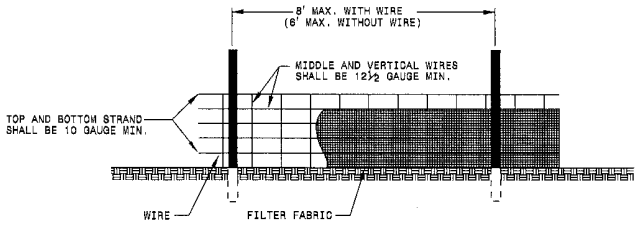
SINGLE-DIRECTIONAL FLOW

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
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	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

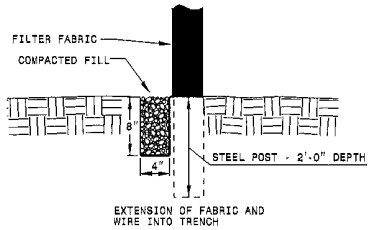
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

TEMPORARY SILT FENCE



NOTES
USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 8 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.



2012 STANDARD DRAWINGS

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	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	*STABILIZATION TIME*	*TIMEFRAME EXCEPTIONS*
PERIMETER DIKES, BERMS, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 HQW ZONES.

JEFFREY E. ALSPAUGH, E.I.
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

REVISIONS

8/17/99

06-MAY-2013 09:42
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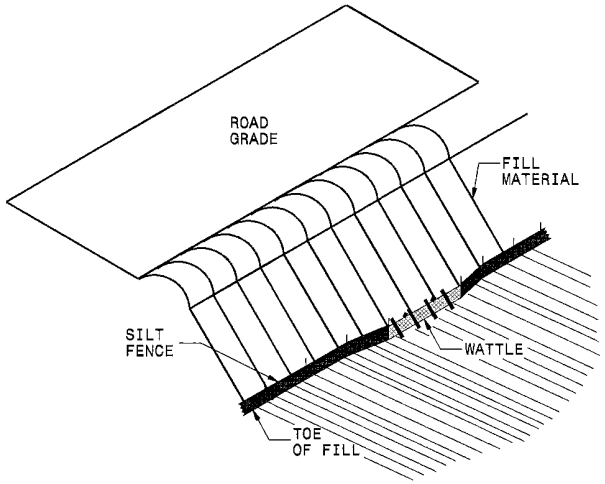
PROJECT REFERENCE NO.	SHEET NO.
43599	EC-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT FENCE WATTLE BREAK DETAIL



ISOMETRIC VIEW

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

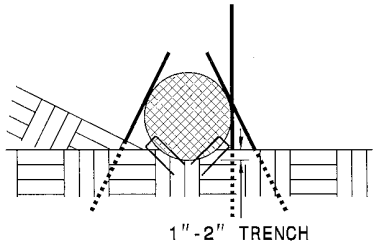
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

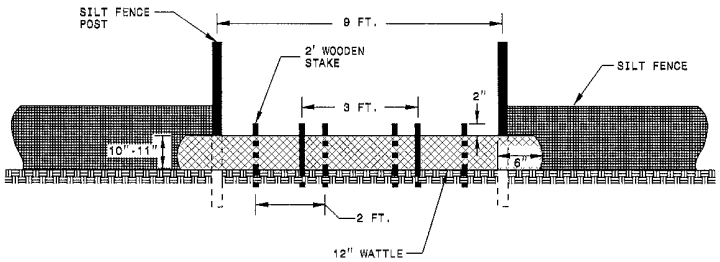
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

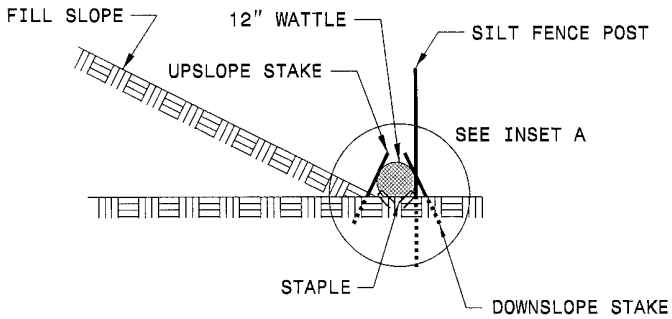
INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





VIEW FROM SLOPE



SIDE VIEW

JEFFREY E. ALSPAUGH, E.I.
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

REVISIONS

5/17/99

06-MAY-2013 09:13
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PROJECT REFERENCE NO.	SHEET NO.
43599	TC-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE 1 - WESTBOUND LANE CLOSURE (STA. 10+00 TO STA. 18+00)

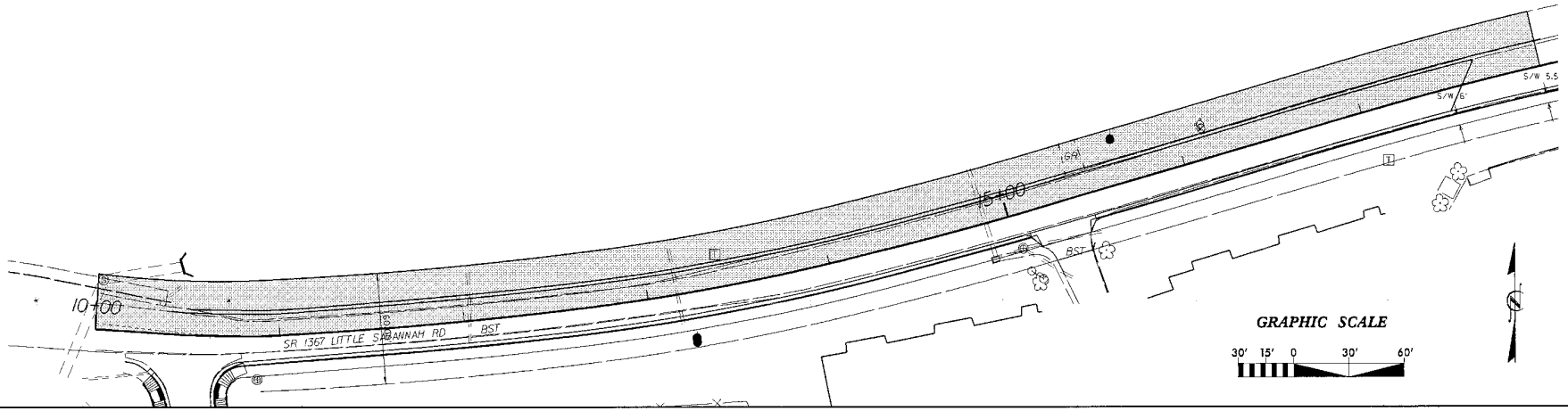
INSTALL REQUIRED EROSION CONTROL MEASURES (** THIS ACTIVITY MAY ONLY REQUIRE A SHOULDER CLOSURE, DEPENDING ON PROXIMITY TO TRAVEL LANE AND TIMING OF SUBSEQUENT WORK ACTIVITIES **).

ALONG THE EDGE OF THE TRAVEL LANE, SAWCUT THE EXSTING ASPHALT PAVEMENT, REMOVING THE EXISTING PAVED SHOULDER, INCLUDING THE WHITE LINE.

CLEAR AND GRADE FOR: LANE WIDENING, 2-FT PAVED SHOULDER, PAVED DRIVEWAY ENTRANCE TO GRAVEL ROAD.

INSTALL 8"OF BLACK BASE FOR LANE WIDENING AND 2-FT PAVED SHOULDER; PROPOSED BLACK BASE ELEVATION TO MATCH EXISTING PAVEMENT GRADE AND TO MATCH EXISTING PAVEMENT CROSS-SLOPE, EXCEPT AS NOTED ON PLAN SHEETS.

WORK ZONE AREA



PHASE 2 - EASTBOUND LANE CLOSURE (STA. 10+00 TO STA. 18+00)

INSTALL REQUIRED EROSION CONTROL MEASURES (** THIS ACTIVITY MAY ONLY REQUIRE A SHOULDER CLOSURE, DEPENDING ON PROXIMITY TO TRAVEL LANE AND TIMING OF SUBSEQUENT WORK ACTIVITIES **).

ALONG THE EDGE OF THE TRAVEL LANE, SAWCUT THE EXSTING ASPHALT PAVEMENT, REMOVING THE EXISTING PAVED SHOULDER, INCLUDING THE WHITE LINE.

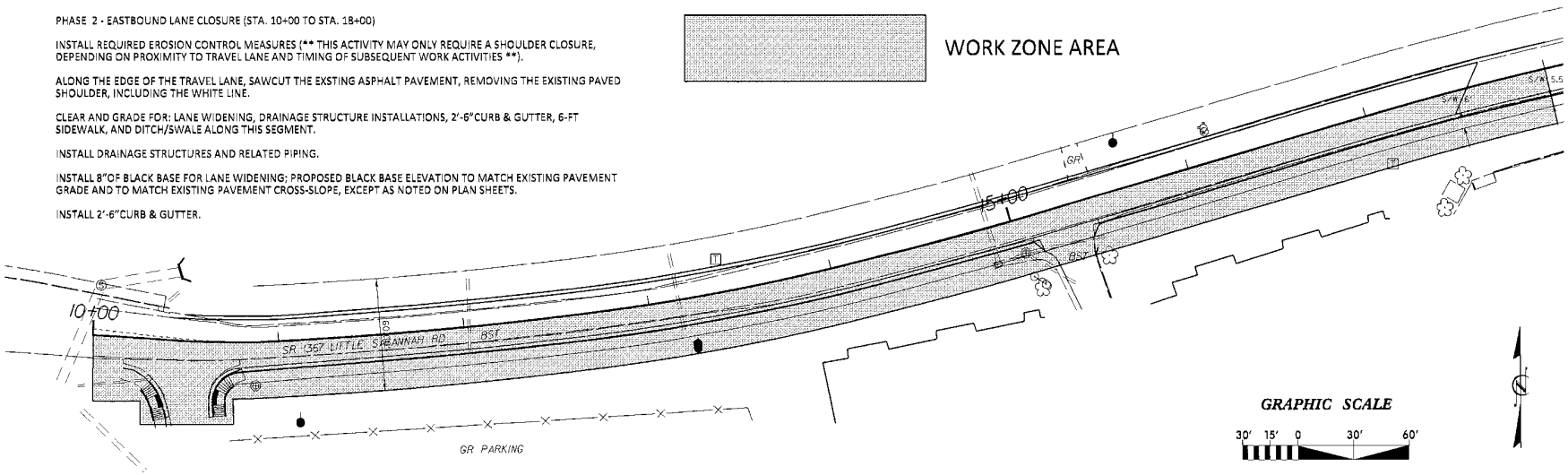
CLEAR AND GRADE FOR: LANE WIDENING, DRAINAGE STRUCTURE INSTALLATIONS, 2'-6"CURB & GUTTER, 6-FT SIDEWALK, AND DITCH/SWALE ALONG THIS SEGMENT.

INSTALL DRAINAGE STRUCTURES AND RELATED PIPING.

INSTALL 8"OF BLACK BASE FOR LANE WIDENING; PROPOSED BLACK BASE ELEVATION TO MATCH EXISTING PAVEMENT GRADE AND TO MATCH EXISTING PAVEMENT CROSS-SLOPE, EXCEPT AS NOTED ON PLAN SHEETS.

INSTALL 2'-6"CURB & GUTTER.

WORK ZONE AREA



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
43599	TC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE 3 - WESTBOUND LANE CLOSURE (STA. 10+00 TO STA. 18+00)

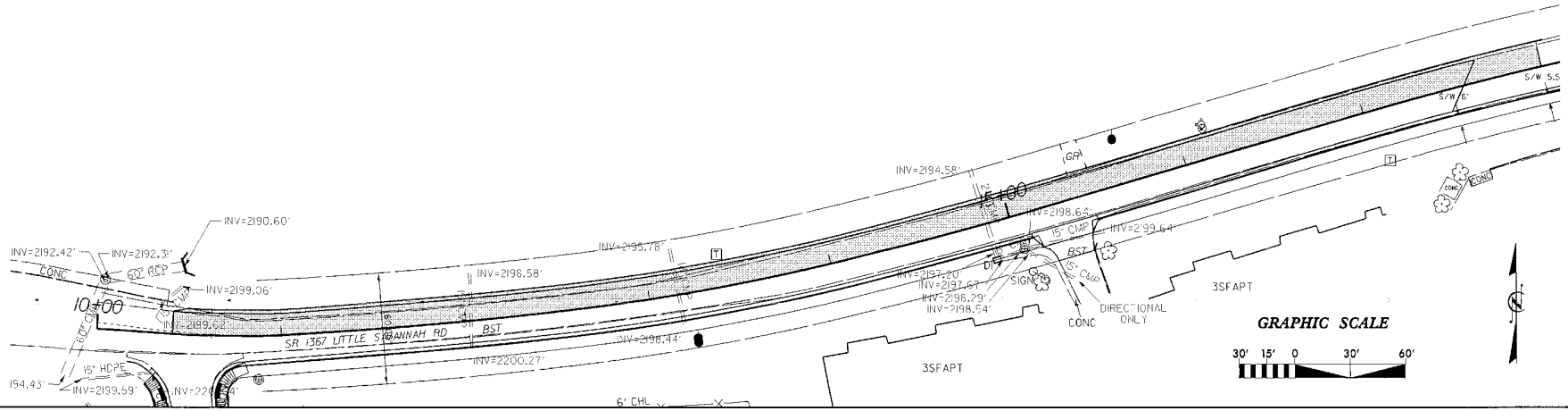
INSTALL 2"OF S9.5B SURFACE COURSE FOR THE WB TRAVEL LANE AND PAVED SHOULDER.

APPLY TWO COATS OF PAINTED PAVEMENT MARKING LINES.

INSTALL SNOW PLOWABLE RMPs AS NEEDED.

RESTORE VEGETATION AS REQUIRED. (THIS ACTIVITY MAY ONLY REQUIRE A SHOULDER CLOSURE, DEPENDING ON PROXIMITY TO TRAVEL LANE).

WORK ZONE AREA



PHASE 4 - EASTBOUND LANE CLOSURE (STA. 10+00 TO STA. 18+00)

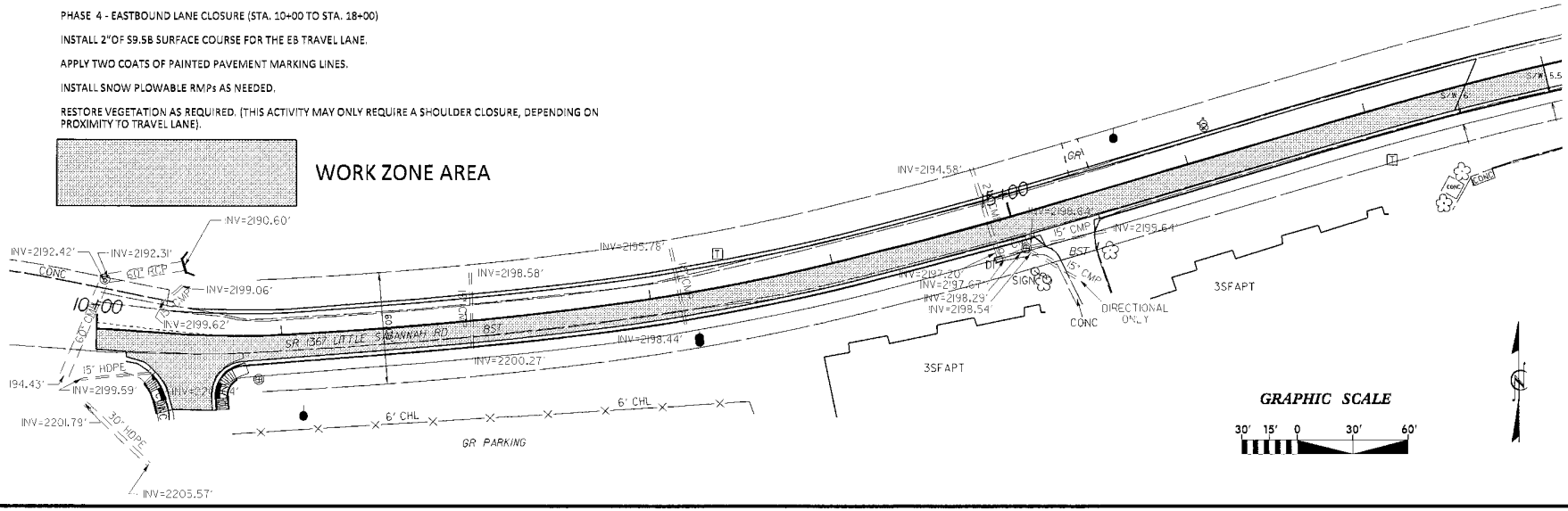
INSTALL 2"OF S9.5B SURFACE COURSE FOR THE EB TRAVEL LANE.

APPLY TWO COATS OF PAINTED PAVEMENT MARKING LINES.

INSTALL SNOW PLOWABLE RMPs AS NEEDED.

RESTORE VEGETATION AS REQUIRED. (THIS ACTIVITY MAY ONLY REQUIRE A SHOULDER CLOSURE, DEPENDING ON PROXIMITY TO TRAVEL LANE).

WORK ZONE AREA



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
43599	TC-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

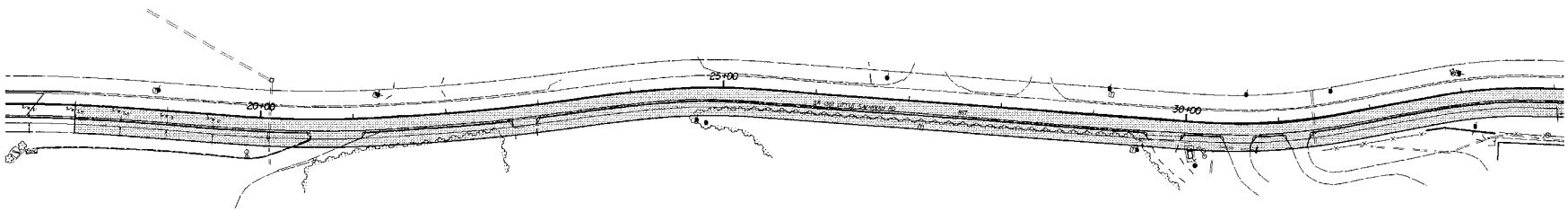
PHASE 5 - EASTBOUND LANE CLOSURE (STA. 18+00 TO STA. 49+23.50)

ALONG THE EDGE OF THE TRAVEL LANE, SAWCUT THE EXSTING ASPHALT PAVEMENT, REMOVING THE EXISTING PAVED SHOULDER, EXCLUDING THE WHITE LINE.

CLEAR AND GRADE FOR: DRAINAGE STRUCTURE INSTALLATIONS, 2'-6"CURB & GUTTER, 6-FT SIDEWALK, DITCH/SWALE RE-ALIGMENTS ALONG THIS SEGMENT.

INSTALL DRAINAGE STRUCTURES AND RELATED PIPING.

INSTALL PROPOSED 2'-6"CURB & GUTTER.



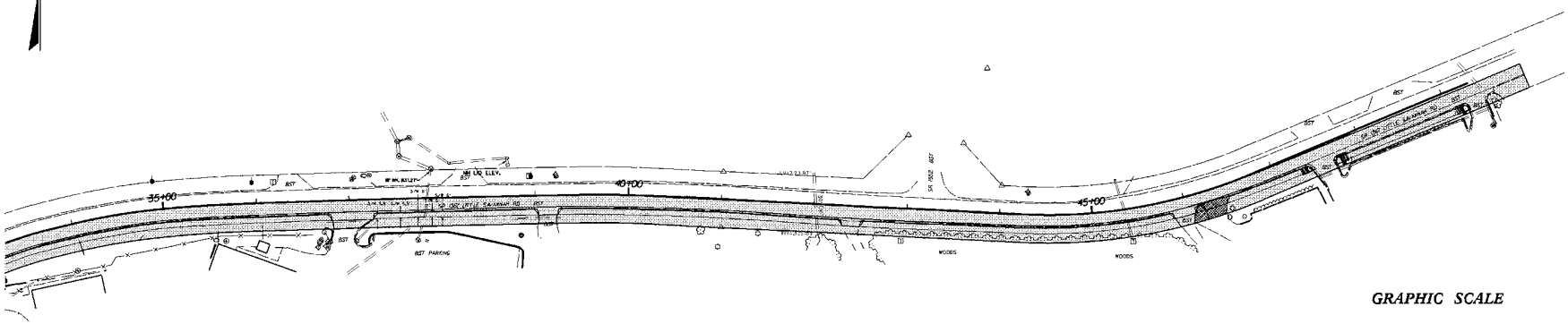
GRAPHIC SCALE

60' 30' 0 60' 120'

PLANS

WORK ZONE AREA

PHASE 5 - (CONTINUED FROM ABOVE)



GRAPHIC SCALE

60' 30' 0 60' 120'

PLANS

WORK ZONE AREA

REVISIONS

8/17/99

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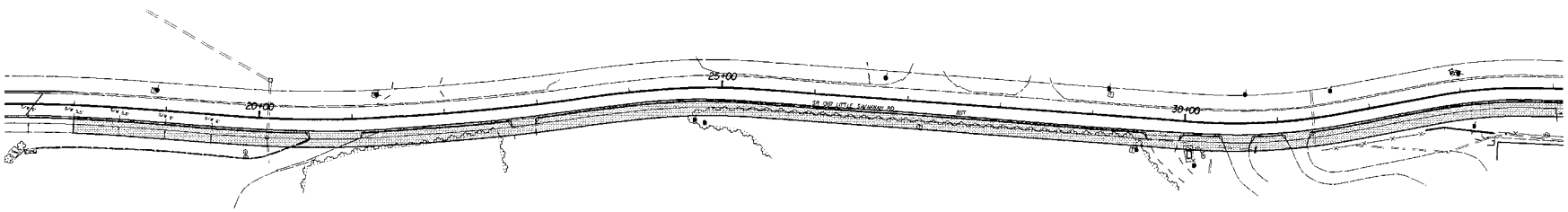
PROJECT REFERENCE NO.	SHEET NO.
43599	TC-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE 6 - EASTBOUND SHOULDER CLOSURE (STA. 18+00 TO STA. 49+23.50)

INSTALL 6-FT CONCRETE SIDEWALK.

PEFORM FINAL GRADING.

RESTORE VEGETATION AS REQUIRED.



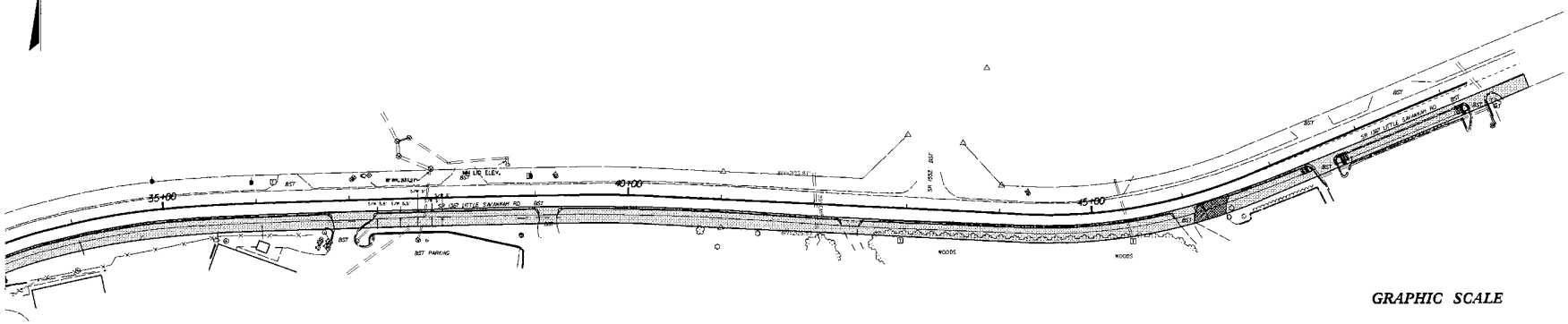
GRAPHIC SCALE

60' 30' 0 60' 120'

PLANS

WORK ZONE AREA

PHASE 6 - (CONTINUED FROM ABOVE)



GRAPHIC SCALE

60' 30' 0 60' 120'

PLANS

WORK ZONE AREA

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
43599	TC-5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

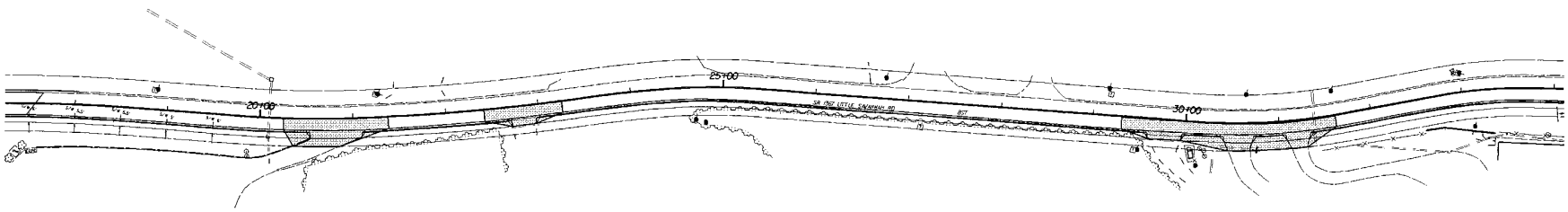
PHASE 7 - EASTBOUND LANE/SHOULDER CLOSURES (AT VARIOUS DRIVEWAY LOCATIONS BETWEEN STA. 18+00 TO STA. 49+23.50)

DEMOLISH EXISTING DRIVEWAYS FROM EXISTING EDGE OF TRAVEL LANE TO R.O.W. LINE.

CONSTRUCT CONCRETE REPLACEMENTS TO EXISTING DRIVEWAYS.

RESTORE VEGETATION AS REQUIRED.

NOTE: WHEN WORKING WITHIN 2-FT OF TRAVEL LANE, A LANE CLOSURE SHALL BE IN PLACE. WHEN WORKING BETWEEN 2-FT AND 15-FT OF THE EDGE OF THE TRAVEL LANE, A SHOULDER CLOSURE SHALL BE REQUIRED.



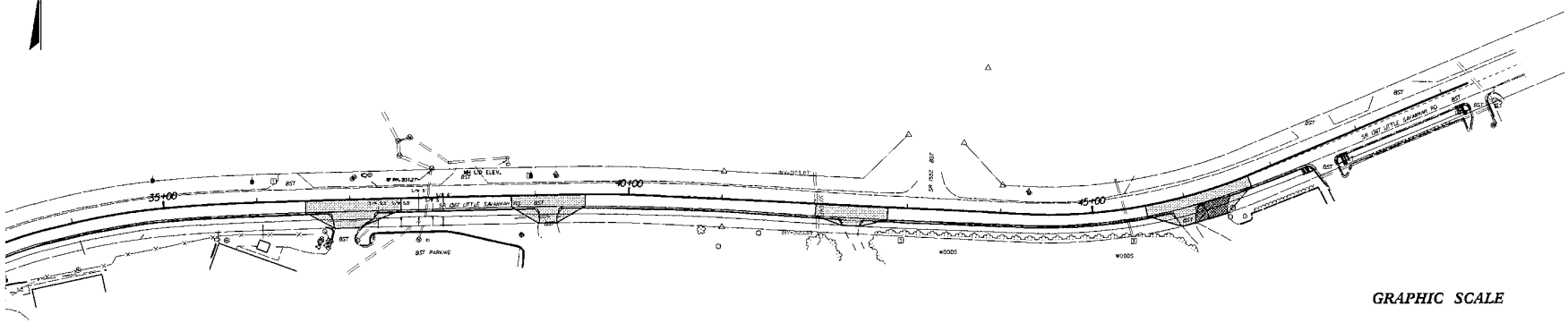
GRAPHIC SCALE

60' 30' 0 60' 120'

PLANS

WORK ZONE AREA

PHASE 7 - (CONTINUED FROM ABOVE)



GRAPHIC SCALE

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PLANS

WORK ZONE AREA

REVISIONS

8/17/99

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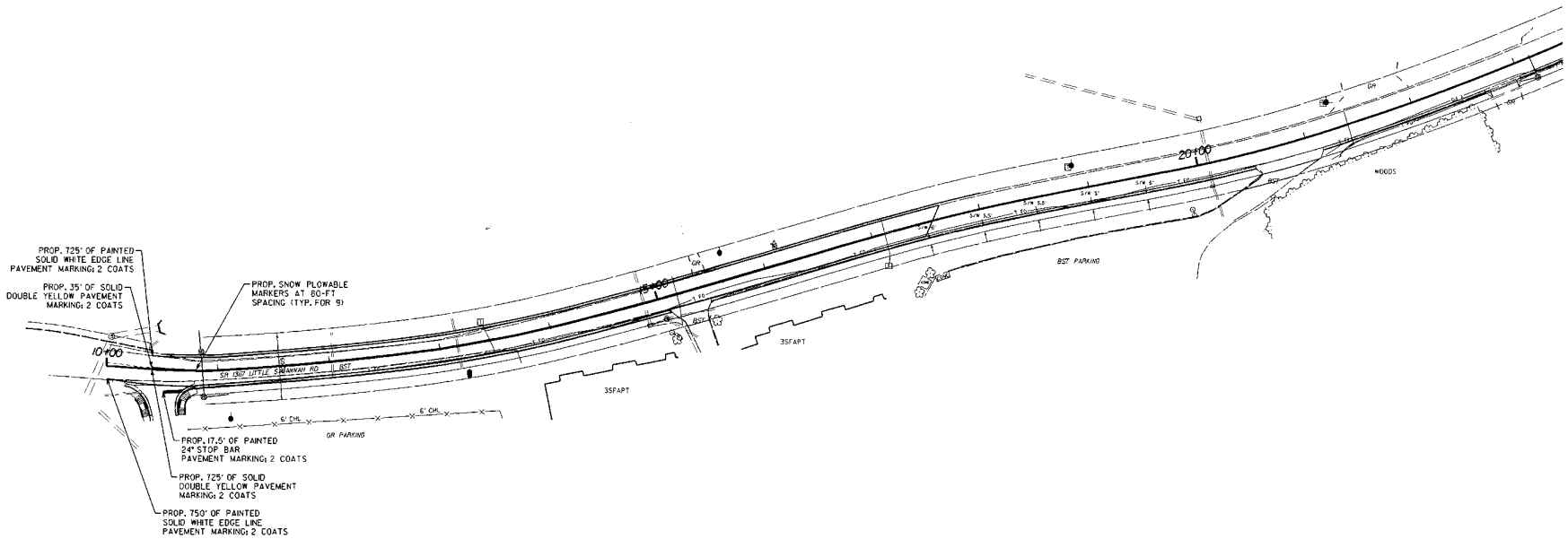
PROJECT REFERENCE NO.	SHEET NO.
43599	PM-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



GRAPHIC SCALE

50' 25' 0 50' 100'

PLANS

REVISIONS

8/17/99

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