

CONTRACT:

PROJECT: 17BP.2.R.13



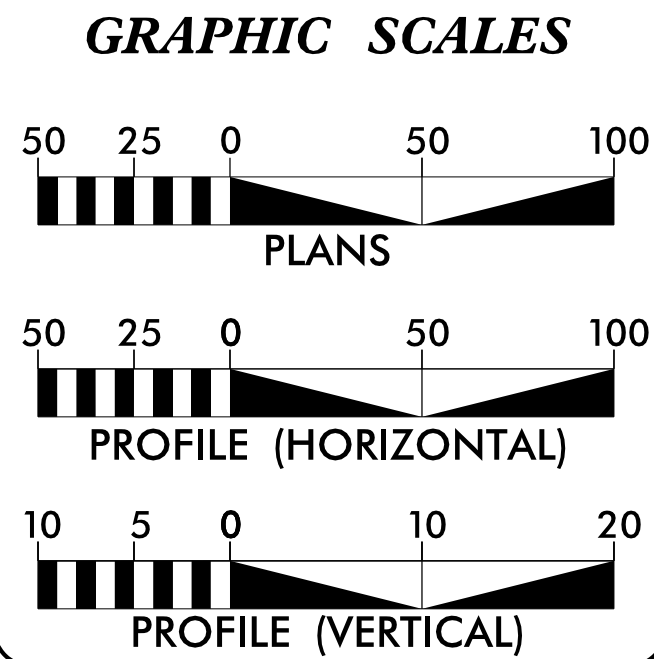
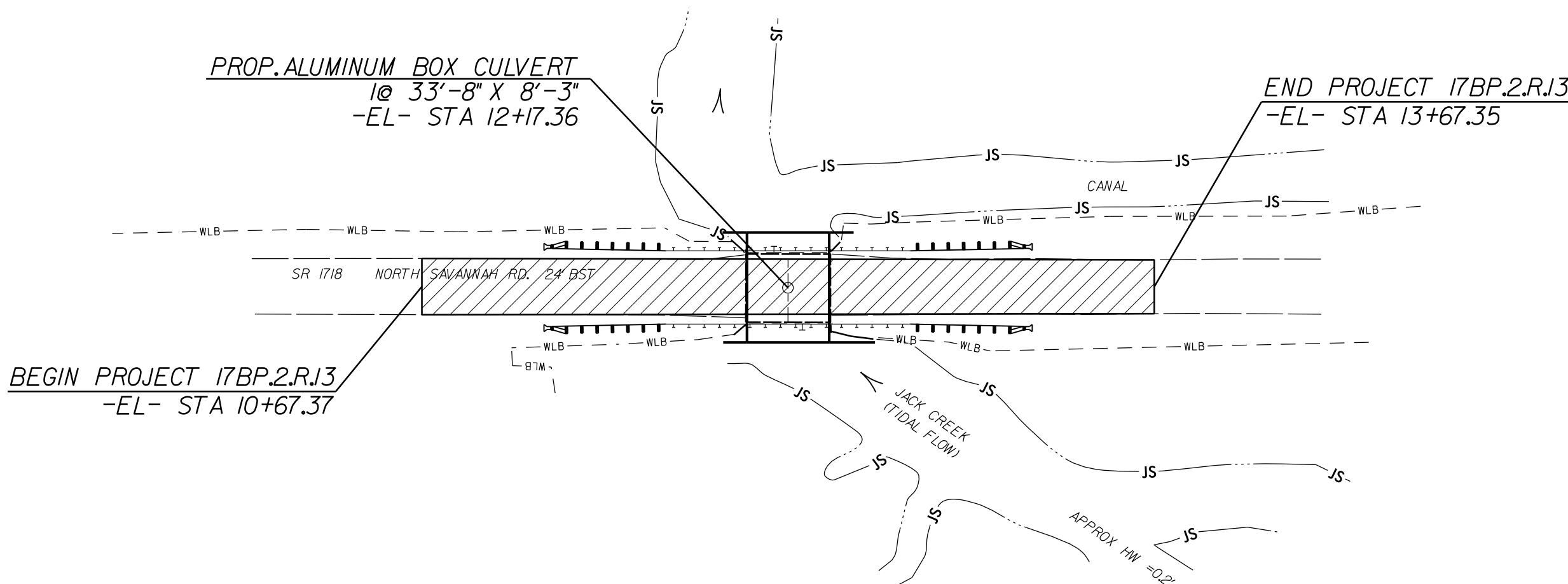
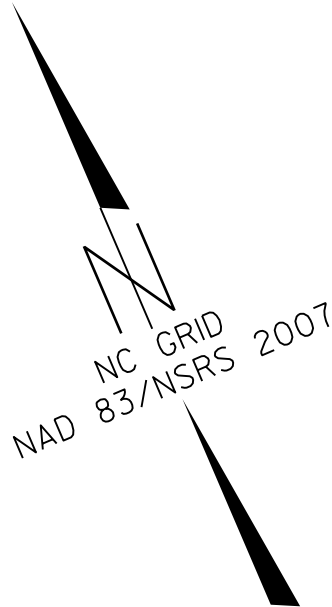
Vicinity Map
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE #124 OVER JACK CREEK ON SR 1718
BETWEEN NC 92 AND SR 1722

TYPE OF WORK: REPLACE BRIDGE WITH BOX CULVERT,
PAVING, GRADING AND DRAINAGE



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY PROJECT 17BP.2.R.13 = 0.051 MILES
LENGTH STRUCTURE PROJECT 17BP.2.R.13 = 0.006 MILES
TOTAL LENGTH PROJECT 17BP.2.R.13 = 0.057 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1704 N. GREENE ST. GREENVILLE, NC 27835

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
FEBRUARY 2013

DWAYNE ALLIGOOD
PROJECT ENGINEER

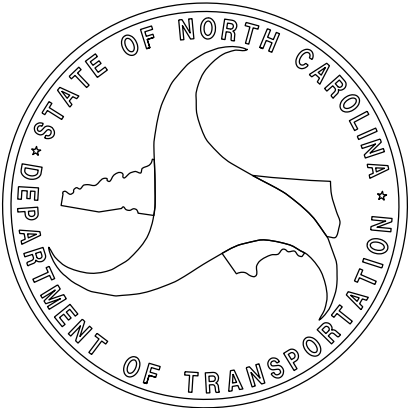
LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *Dwayne H. Alligood*
02/07/2013

ROADWAY DESIGN ENGINEER

SIGNATURE: *Dwayne H. Alligood*
02/07/2013



INDEX OF SHEETS

SHEET NUMBER	SHEET
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1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK, PAVEMENT REMOVAL, GUARDRAIL AND DRAINAGE QUANTITIES
4	PLAN AND PROFILE SHEET
UC1-UC4	UTILITY CONSTRUCTION PLANS
TMP1-TMP2	TRAFFIC MANAGEMENT PLANS
EC1-EC3	EROSION CONTROL SHEETS
X1A	CROSS-SECTION SUMMARY
X1-X2	CROSS-SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

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.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS.
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 STD. NO. 560.01.

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.

UTILITIES:

ALL EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE.

UTILITY OWNERS ON THIS PROJECT ARE AS FOLLOWS:
BEAUFORT CO. WATER DEPT. (WATER) CONTACT:ERICK JENNINGS 252-402-6547
TRI COUNTY TELECOM (PHONE/CATV) CONTACT: CECIL WALKER JR. 252-964-8000
TIDELAND EMC (POWER) CONTACT: MICHAEL MARSLENDER 252-943-3046

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

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 - Method 'A'

DIVISION 8 - INCIDENTALS	
876.02	Guide for Rip Rap at Pipe Outlets

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
17BP.2.RJ3	1B

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	----->
Property Monument	□ ECM
Parcel/Sequence Number	(I23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	-o-
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

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	----->
False Sump	◇

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	-----
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	----- (RW)
Proposed Right of Way Line with Iron Pin and Cap Marker	----- (RW) ▲
Proposed Right of Way Line with Concrete or Granite Marker	----- (RW) ●
Existing Control of Access	----- (CA)
Proposed Control of Access	----- (CA)
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
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 Wheel Chair Ramp	----- (WCR)
Existing Metal Guardrail	----- T
Proposed Guardrail	----- T
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	⊕
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	⊕
Telephone Booth	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	□
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	⊕
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	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	□
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:

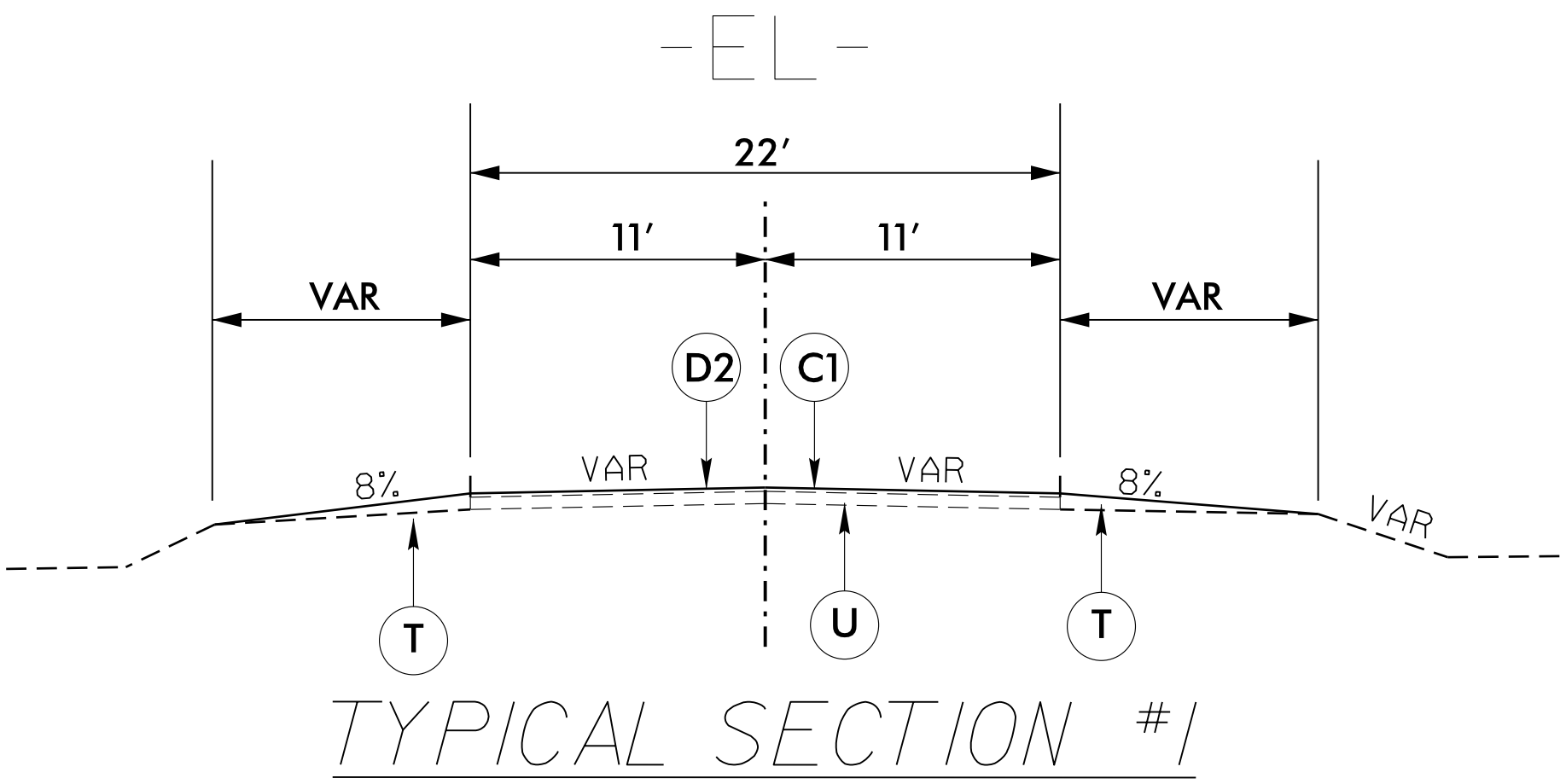
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

MISCELLANEOUS:

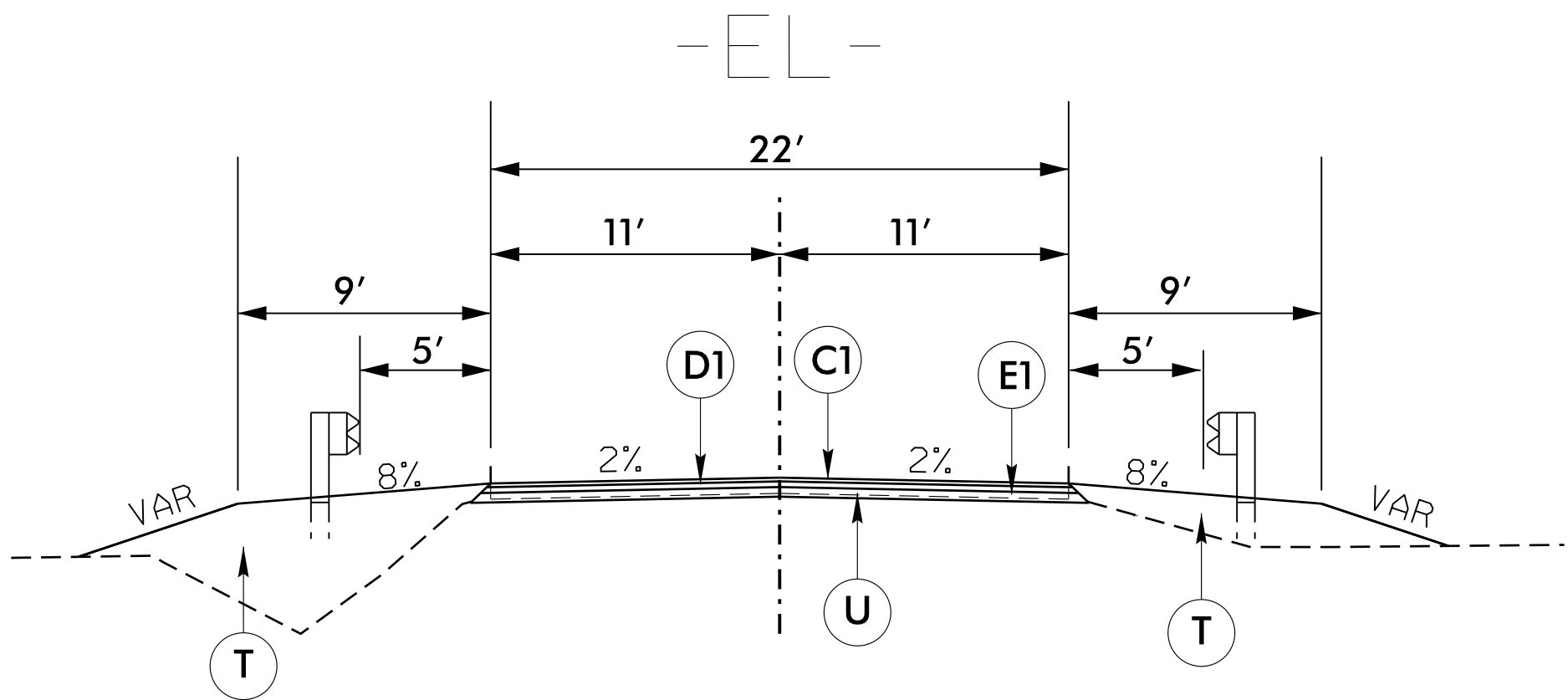
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 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.
D2	PROP. VARIABLE DEPTH WEDGING ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J	APPROX. 12" AGGREGATE BASE COURSE
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	FILTER FABRIC
Y	#57 WASHED STONE

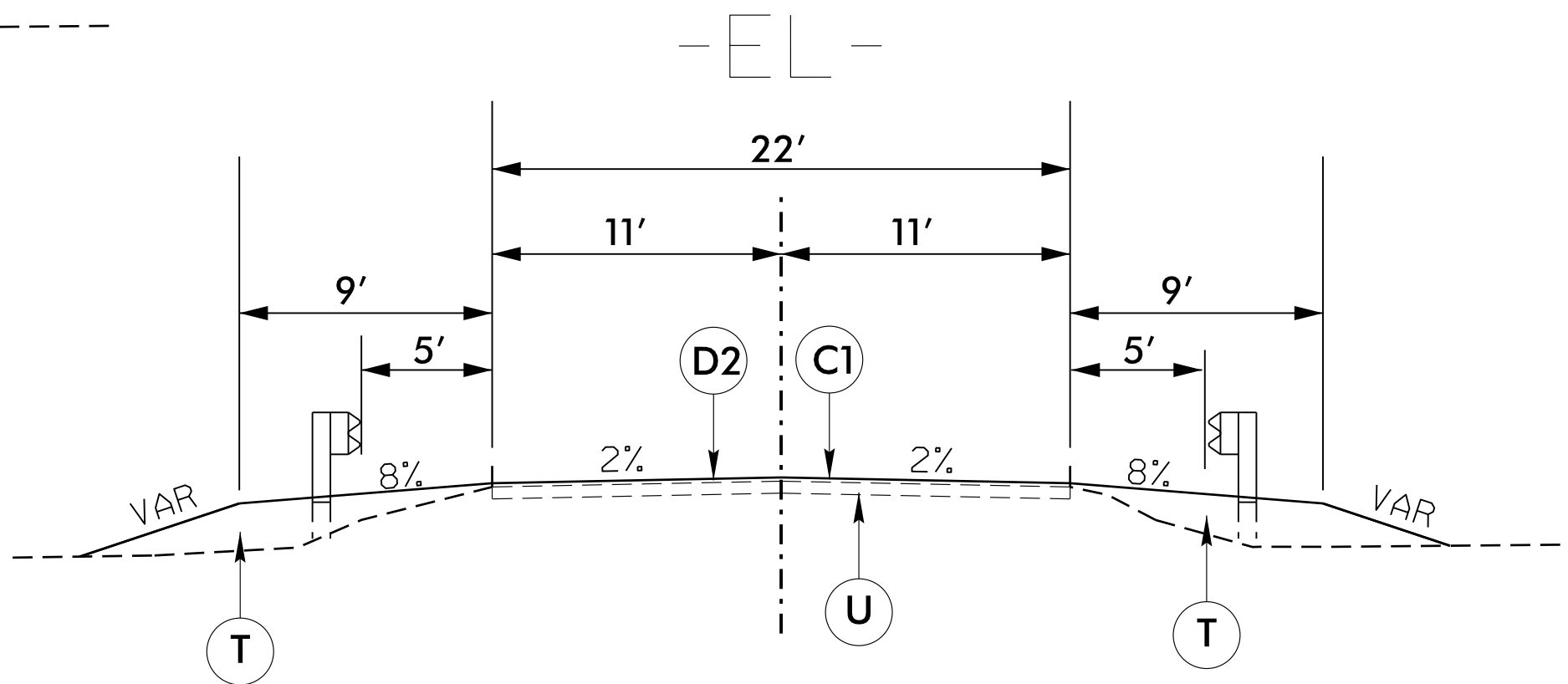
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



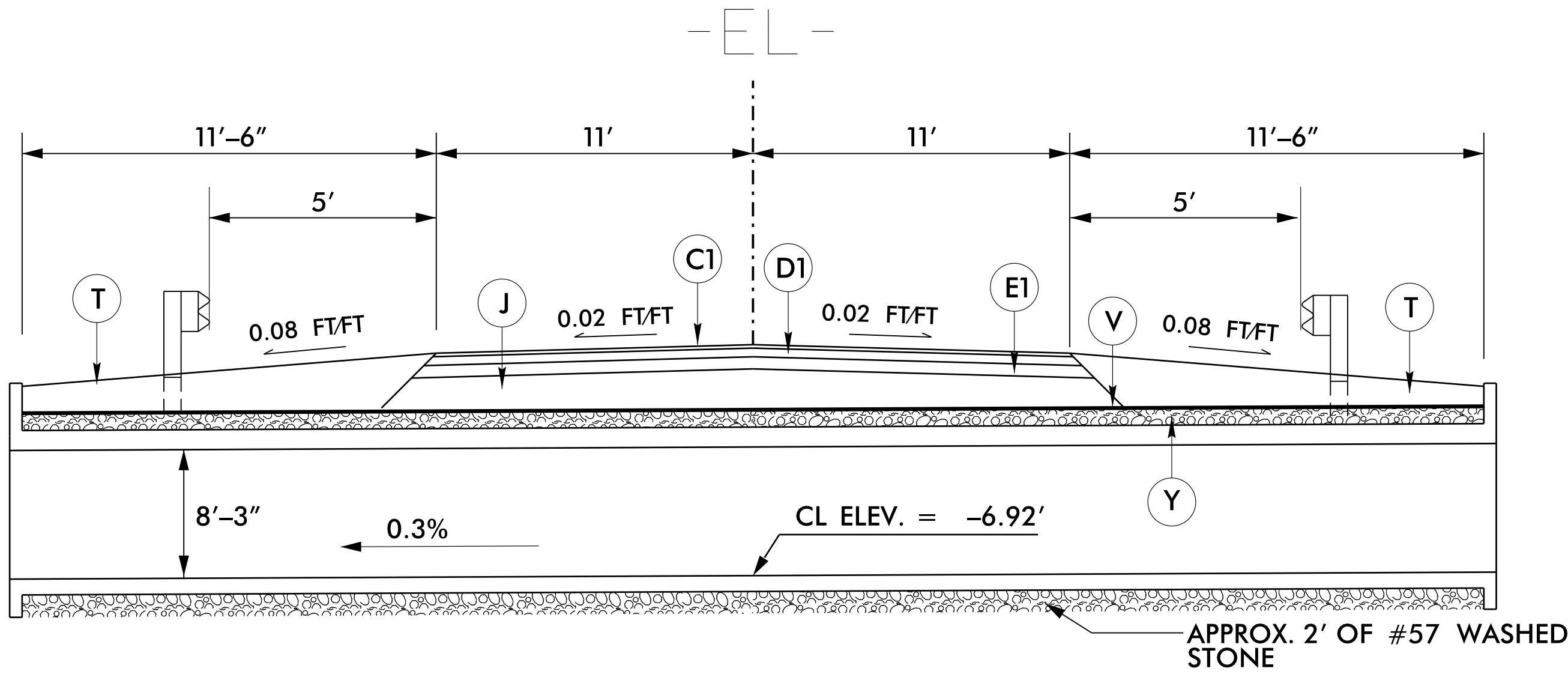
TRANSITION FROM TYPICAL
SECTION #1 TO TYPICAL SECTION #2
-EL- STATION 10+67.37 - 11+17.37
-EL- STATION 13+17.35 - 13+67.35



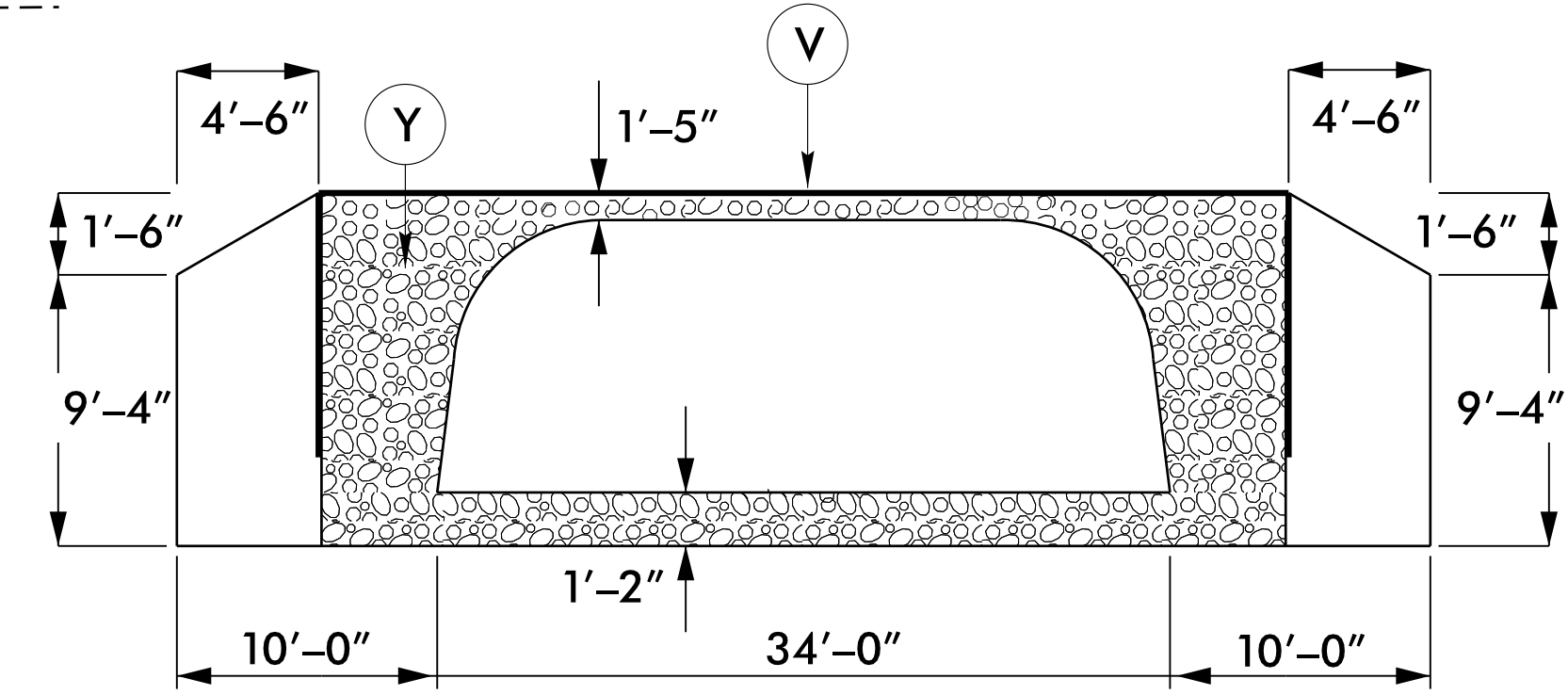
TYPICAL SECTION #3
-EL- STATION 11+73.85 - 12+60.42



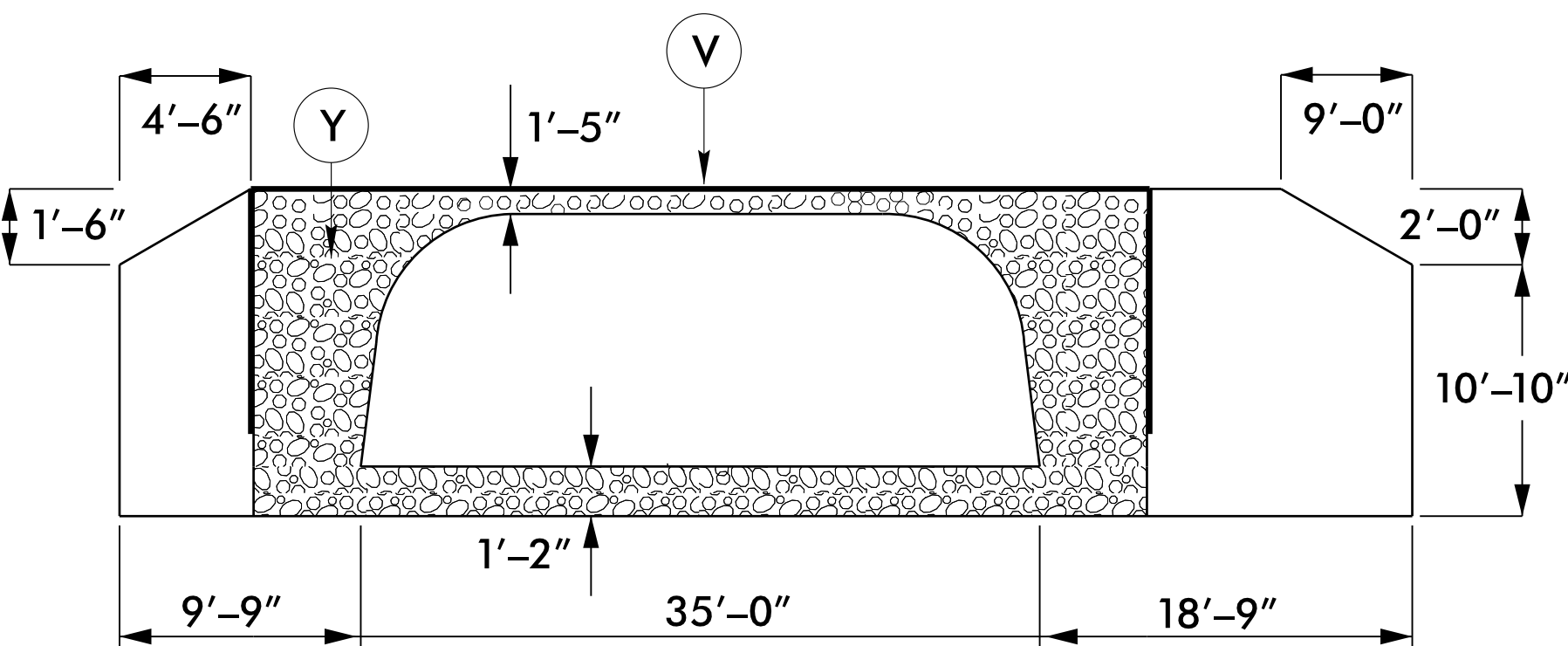
TYPICAL SECTION #2
-EL- STATION 11+17.37 - 11+73.85
-EL- STATION 12+60.42 - 13+17.35



TYPICAL BOX CULVERT SECTION #4 (NTS)



OUTLET END VIEW BOX CULVERT (NTS)



INLET END VIEW BOX CULVERT (NTS)

PROJECT REFERENCE NO.		SHEET NO.
17BP.2.R.13		2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DWAYNE H. ALLIGOOD 16710 02/07/13	THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DWAYNE H. ALLIGOOD 16710 02/07/13	

NOTE: REVISED END VIEW BOX CULVERT
TO INCLUDE HEADWALL AND DIMENSIONS.

REVISIONS

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8/17/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION
801	1	LS	CONSTRUCTION SURVEYING
SP	1	LS	GRADING
SP	100	CY	UNDERCUT EXCAVATION
520	65	TON	AGGREGATE BASE COURSE
610	80	TON	ASPHALT CONCRETE BASE COURSE,TYPE B25.0B
610	45	TON	ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE I19.0B
610	80	TON	ASPHALT CONCRETE SURFACE COURSE,TYPE S9.5B
620	15	TON	ASPHALT BINDER FOR PLANT MIX,GRADE PG64-22
862	200	LF	STEEL BEAM GUARDRAIL
SP	4	EA	GUARDRAIL ANCHOR UNITS,TYPE 350
876	250	SY	GEOTEXTILE FOR DRAINAGE
1605	650	LF	TEMPORARY SILT FENCE
1610	10	TON	STONE FOR EROSION CONTROL,CLASS B
1610	10	TON	SEDIMENT CONTROL STONE
1615	0.5	ACRE	TEMPORARY MULCHING
1620	20	LB	SEED FOR TEMPORARY SEEDING
1620	0.1	TON	FERTILIZER FOR TEMPORARY SEEDING
1630	30	CY	SILT EXCAVATION
1631	1000	SY	MATTING FOR EROSION CONTROL
1632	100	LF	1/4" HARDWARE CLOTH
SP	100	LF	WATTLE
1660	1	ACRE	SEEDING AND MULCHING
1661	50	LB	SEED FOR REPAIR SEEDING
1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
SP	150	SY	TURBIDITY CURTAIN
SP	3	EA	RESPONSE FOR EROSION CONTROL
402	1	LS	REMOVAL OF EXISTING STRUCTURE AT -EL- STATION 12+17.36
SP	1	LS	1 @ 8'-3" X 33'-8" CORRUGATED ALUMINUM BOX CULVERT WITH HEADWALLS AT -EL- STATION 12+17.36
SP	1	LS	RELOCATE EXISTING 6" WATER MAIN

LIST OF PIPES, ENDWALLS, ETC.

[illegible]

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	STRUCTURE EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
–EL– 10 + 67.37 – 13 + 67.35	54	1,175	0	473	473	1,175
UNDERCUT (CONTINGENCY)	0	0	100	120	120	100
SUB TOTAL	54	1,175	100	593	593	1,275
SAY	60	1,200	100	600	600	1,300

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–EL–	11 + 73.85 – 12 + 60.42	CL	140
TOTAL			140
SAY			150

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE 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."

GUARDRAIL SUMMARY

[illegible]

PROJECT REFERENCE NO.
17BP.2.R.13

SHEET NO.
4

R/W SHEET NO.

ROADWAY DESIGN ENGINEER


02/07/2013

HYDRAULICS ENGINEER


02/07/2013

50 25 0 50 100

PLANS

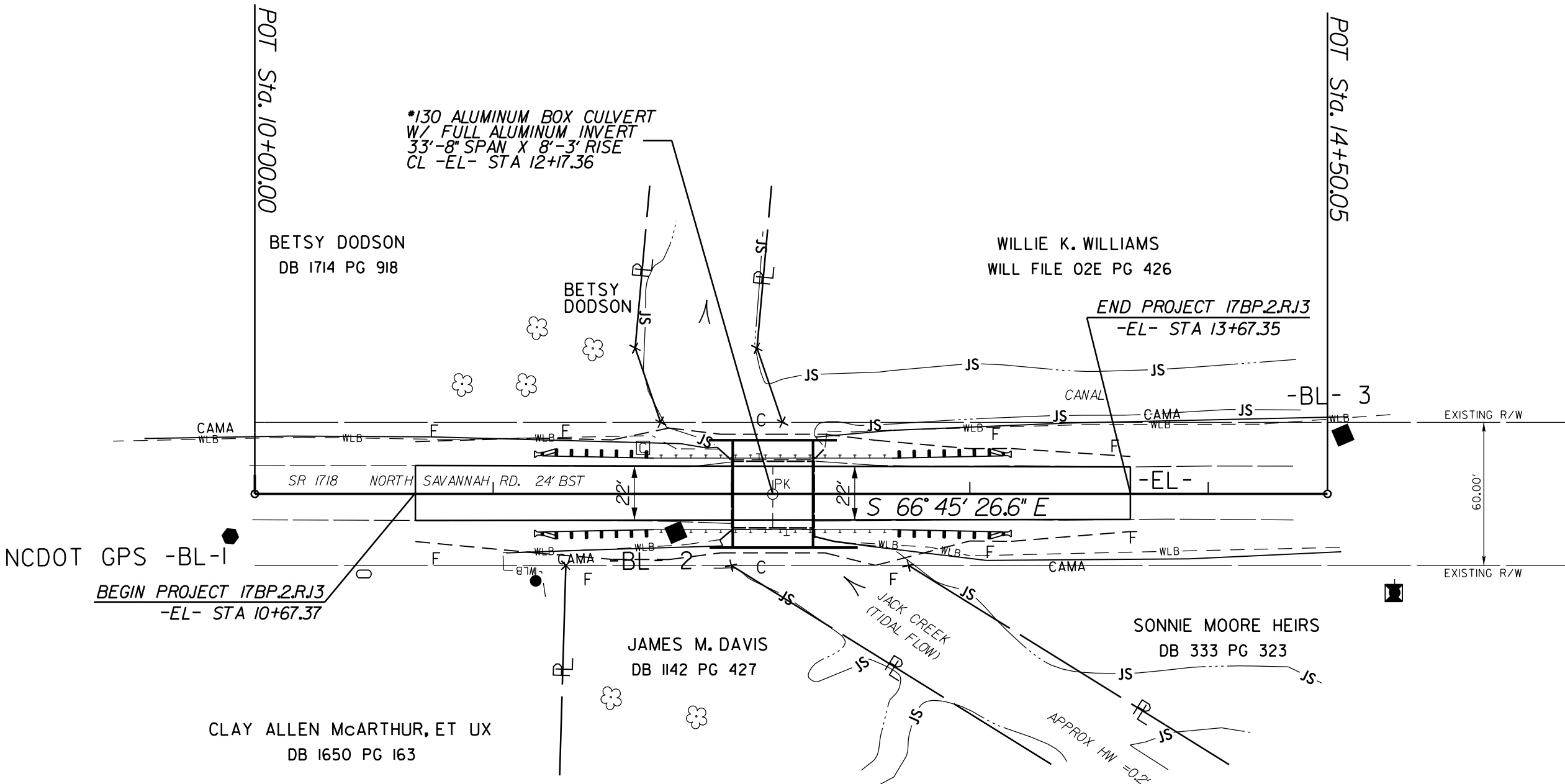
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL1" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 637043.228(±) EASTING: 2693804.837(±) ELEVATION: 2.732(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999886050

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL1" TO -EL- STATION 10+00.00 IS
N 53°13'35.6"E 20.51'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



Point	North	East	Elevation	Description
BL1	637043.2280	2693804.8370	2.7320	NCDOT GPS BL-1
BL2	636970.8698	2693977.1979	2.8600	BL-2
BL3	636897.9527	2694250.4511	2.1200	BL-3
BM1	636828.6987	2694243.9158	3.8700	RR SPIKE SET IN PP

-L- PROFILE
SCALE: 1"=50' HORIZ.
1"=10' VERT.

LEGEND
PROPOSED
STRUCTURE
EXCAVATION

BEGIN GRADE
-EL- STA 10+67.37
ELEV.= 4.47

END GRADE
-EL- STA 13+67.37
ELEV.= 3.50

HYDRAULIC DATA					
DESIGN:	DISCHARGE	350 C.F.S.	FREQUENCY	25 Y.	ELEV. 13'
BASE FLOOD:	DISCHARGE	540 C.F.S.	FREQUENCY	100 Y.	ELEV. 21'
OVERTOPPING:	DISCHARGE	779 C.F.S.	FREQUENCY	500 Y.	ELEV. 27'

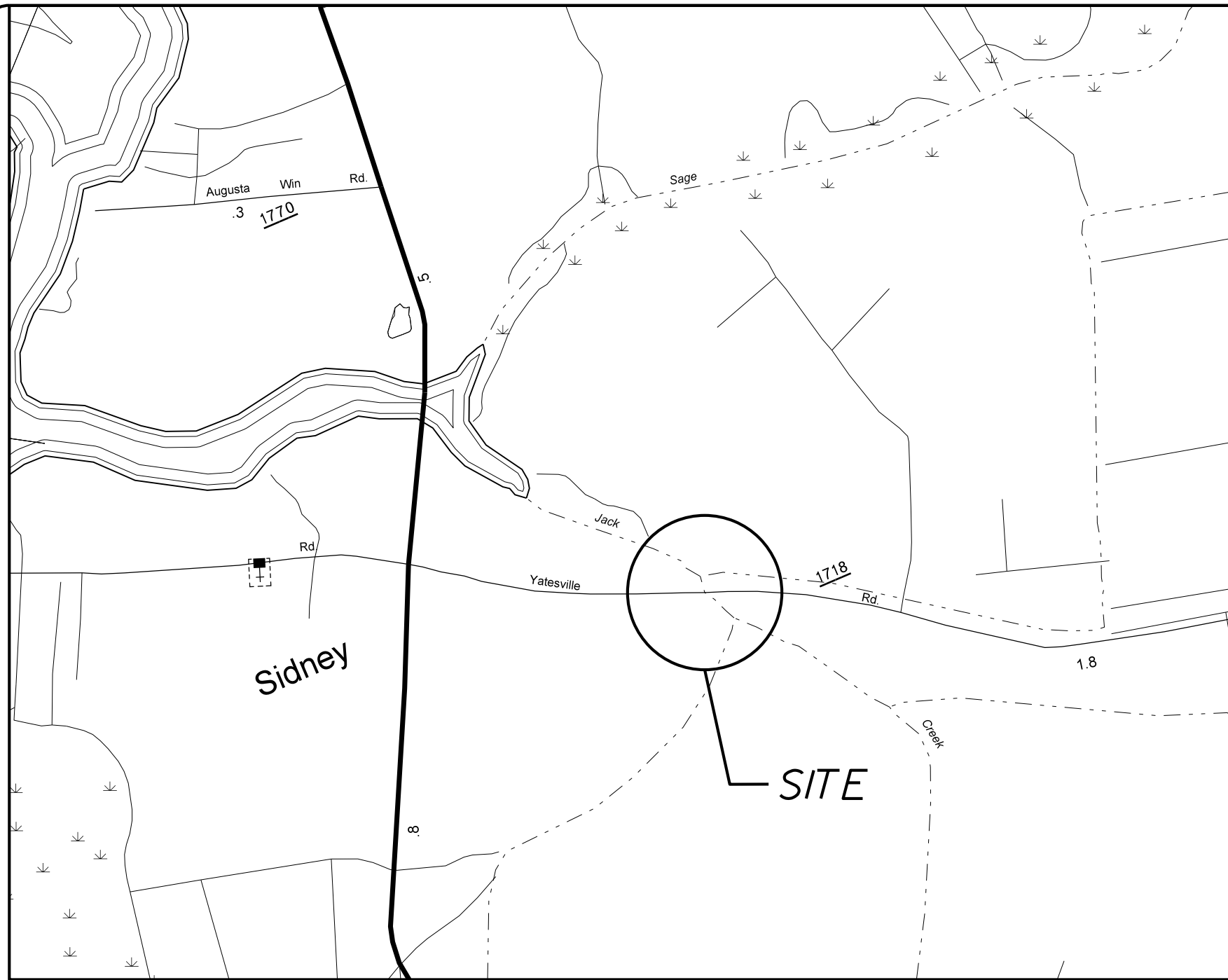
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.2.R.13	U1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

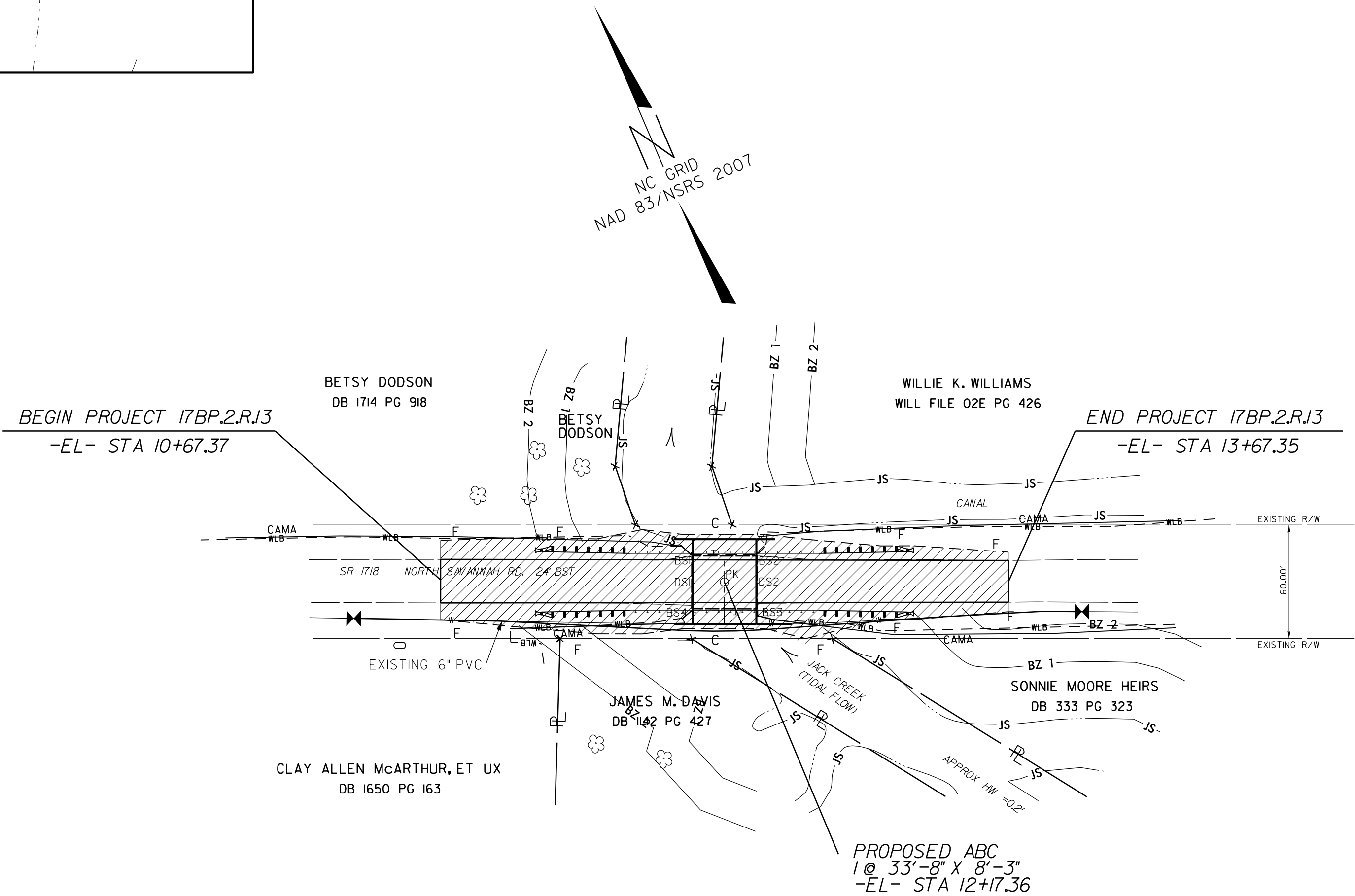
BEAUFORT COUNTY

LOCATION: BRIDGE #124 OVER JACK CREEK ON SR 1718
BETWEEN NC 92 AND SR 1722

TYPE OF WORK: UTILITY CONSTRUCTION
WATER MAIN RELOCATION

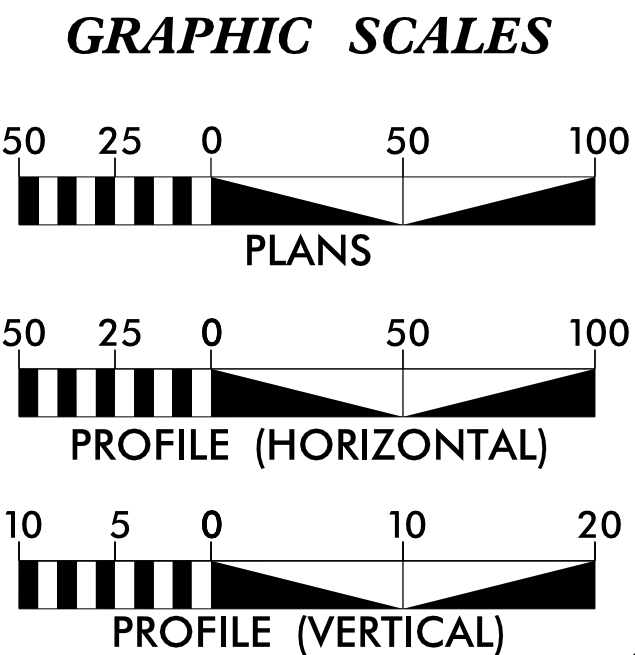


Vicinity Map



TIP PROJECT: 17.BP.2.R.13

CONTRACT:



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY PROJECT 17BP.2.R.13 = 0.051 MILES
LENGTH STRUCTURE PROJECT 17BP.2.R.13 = 0.006 MILES
TOTAL LENGTH PROJECT 17BP.2.R.13 = 0.057 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1704 N. GREENE ST. GREENVILLE NC, 27835

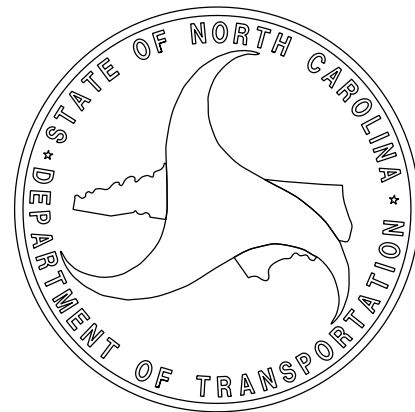
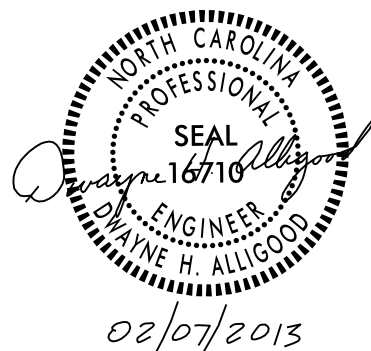
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
February 2013

DWAYNE ALLIGOOD
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

UTILITIES ENGINEER



REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
17BP.2.RJ3	UC2

UTILITIES
ENGINEER

Wayne H. Allgood
02/07/2013

UTILITY CONSTRUCTION

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

<i>WATER MAIN</i>	<i>QUANTITY</i>	<i>UNIT</i>	<i>ITEM DESCRIPTION</i>
	40	LF	6" DI PIPE
	326	LF	8" HDPE PIPE DR9 (AWWA C906)
	2	EA	6" GATE VALVE AND VALVE BOX
	2	EA	DI PIPE TO HDPE TRANSITION
	2	EA	CONCRETE THRUST COLLAR
	100	LF	TEMPORARY SILT FENCE
	.2	ACRES	SEEDING AND MULCHING

8/17/99

REVISIONS

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PROJECT REFERENCE NO.
17BP.2.R.13

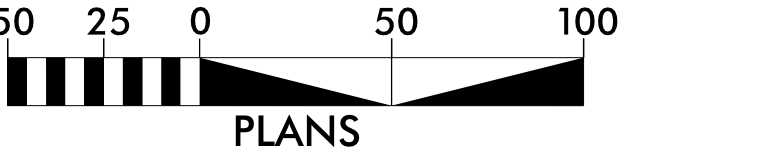
SHEET NO.
U3

UTILITY ENGINEER

SEAL

02/07/2013

DAVID H. ALLGOOD



- NOTES:
- WATER MAIN**
1. 8" HDPE WATER MAIN TO CONFORM TO THE FOLLOWING: AWWA C906, PRESSURE CLASS 200, DR9, DUCTILE IRON PIPE SIZE (DIPS) DIMENSIONS, AND MATERIAL DESIGNATION PE 3408 AND NSF APPROVED FOR POTABLE WATER.
 2. THE PROPOSED WATER MAIN RELOCATION DOES NOT IMPACT ANY ENVIRONMENTALLY SENSITIVE AREAS.
 3. LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR AND MAINTAIN 18" MINIMUM VERTICAL SEPARATION.

- LEGEND:**
- Gate Valve
- HDPE to DIP Transition
- Thrust Collar

DATUM DESCRIPTION

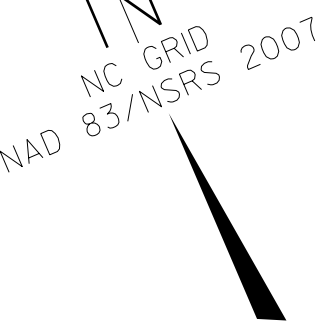
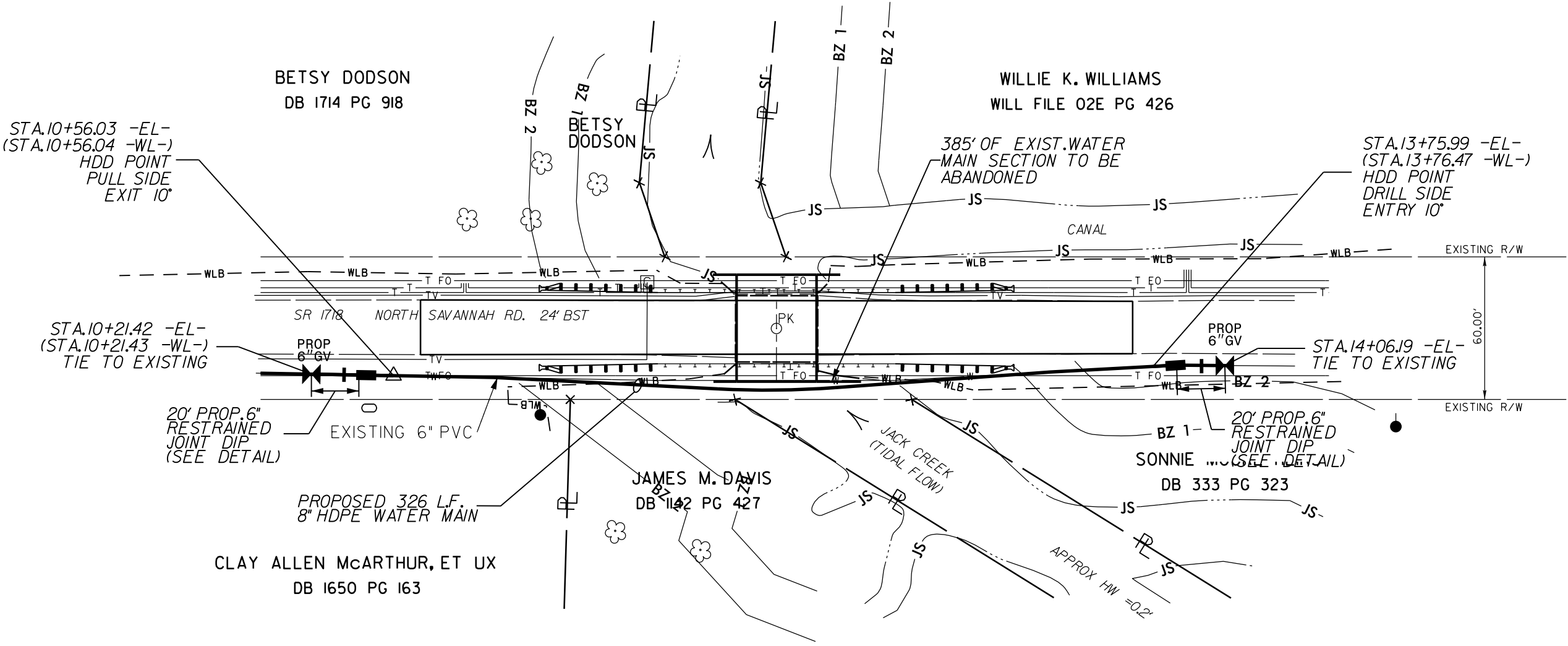
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL1"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 637043.228(±) EASTING: 2693804.837(±)
ELEVATION: 2.732(±)

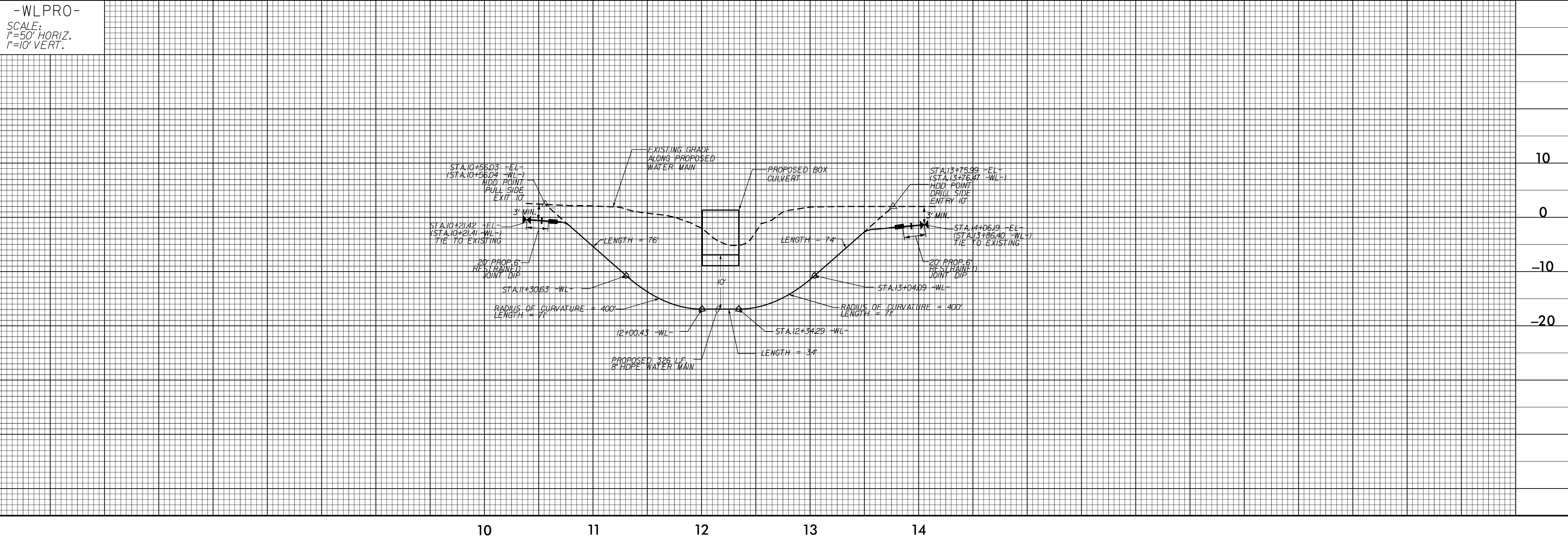
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999886050

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL1" TO -EL- STATION 10+00.00 IS
N 53°13'35.6"E 20.51'

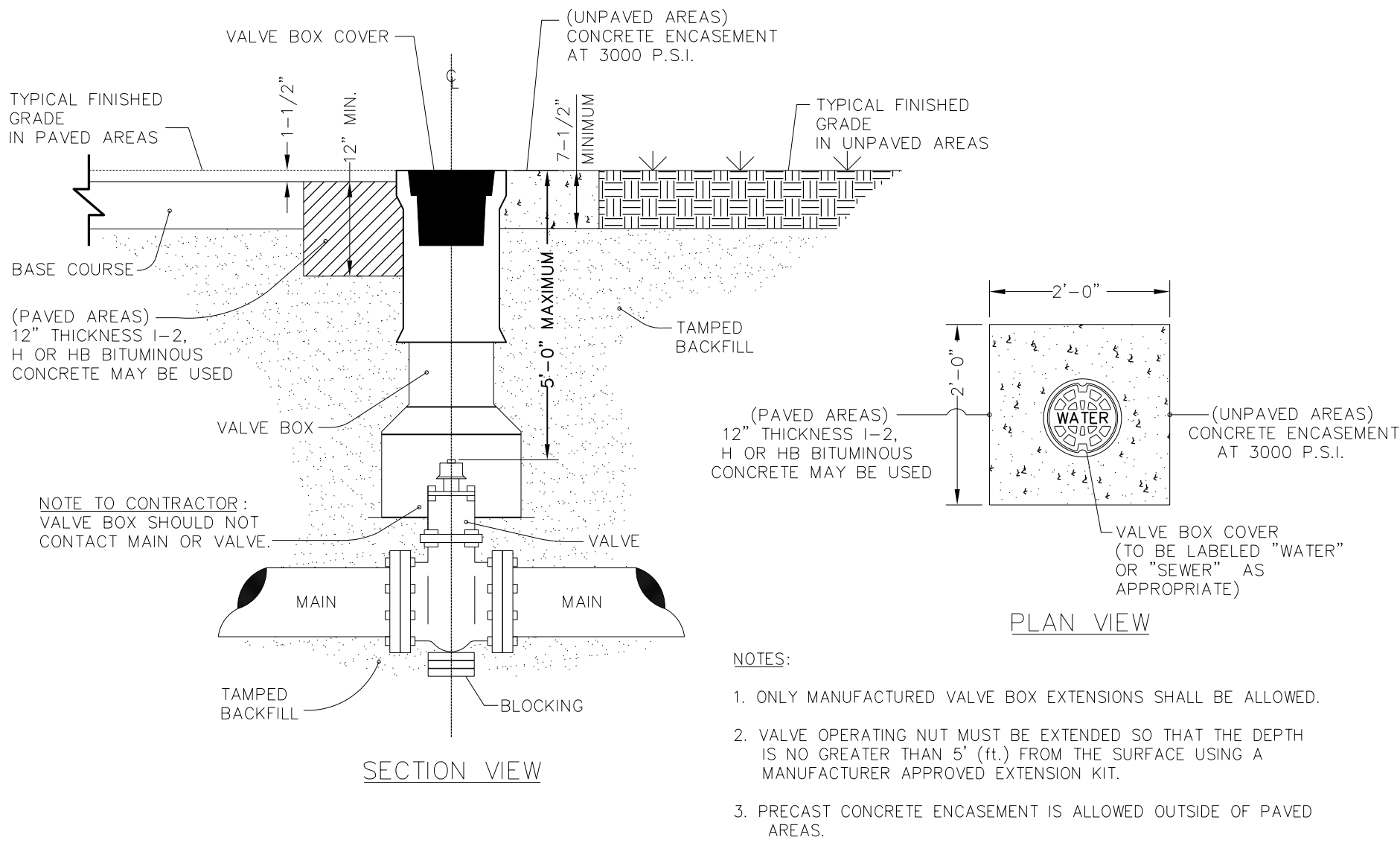
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



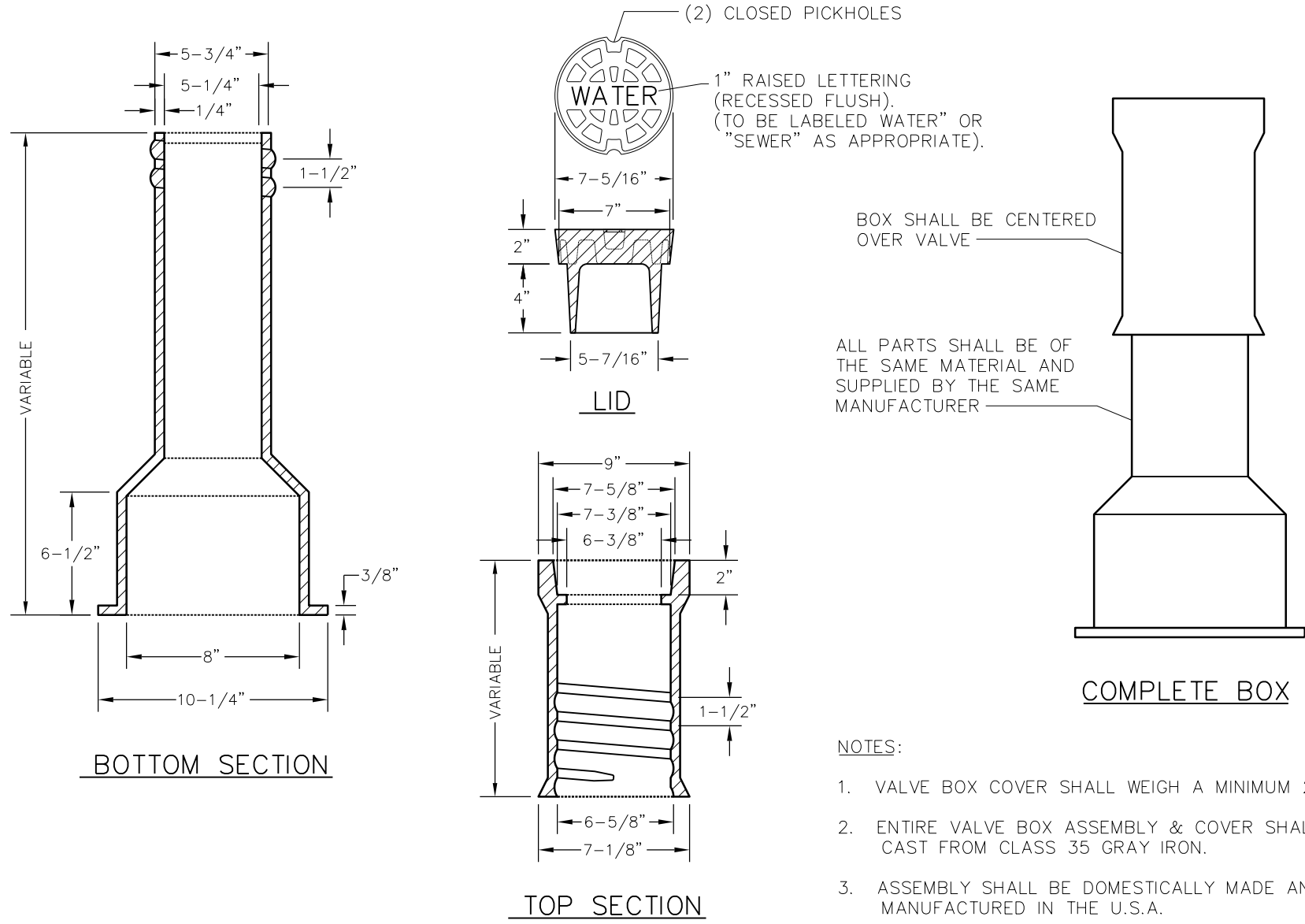
PROFILE ALONG PROPOSED WATER MAIN



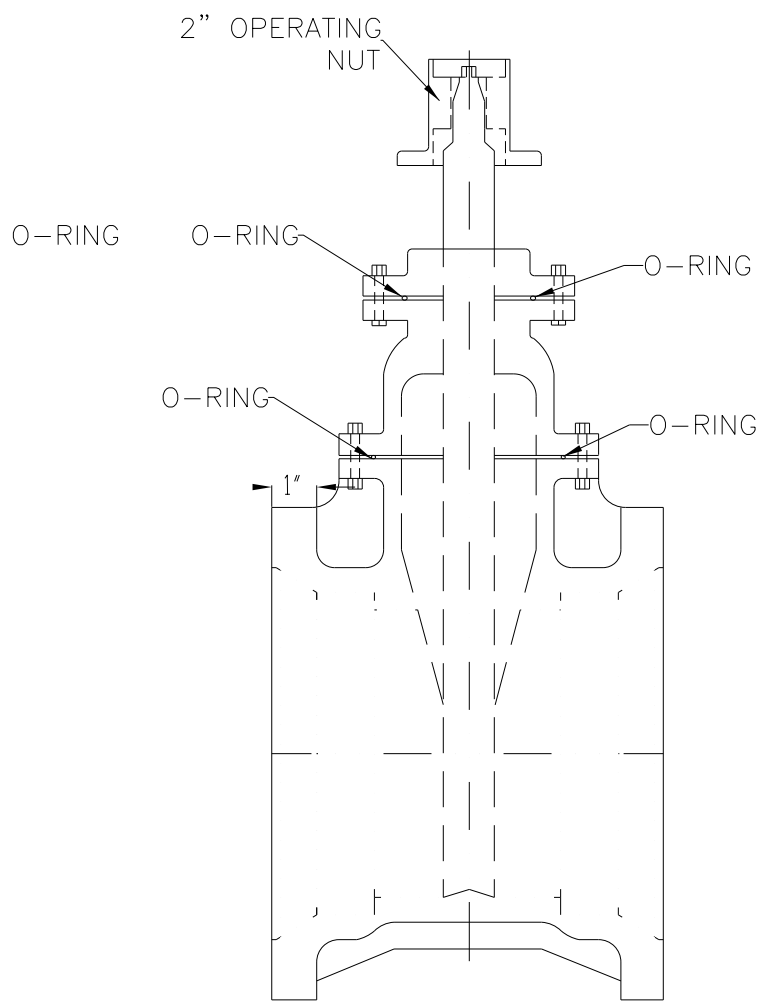
UTILITY CONSTRUCTION
DETAIL SHEET



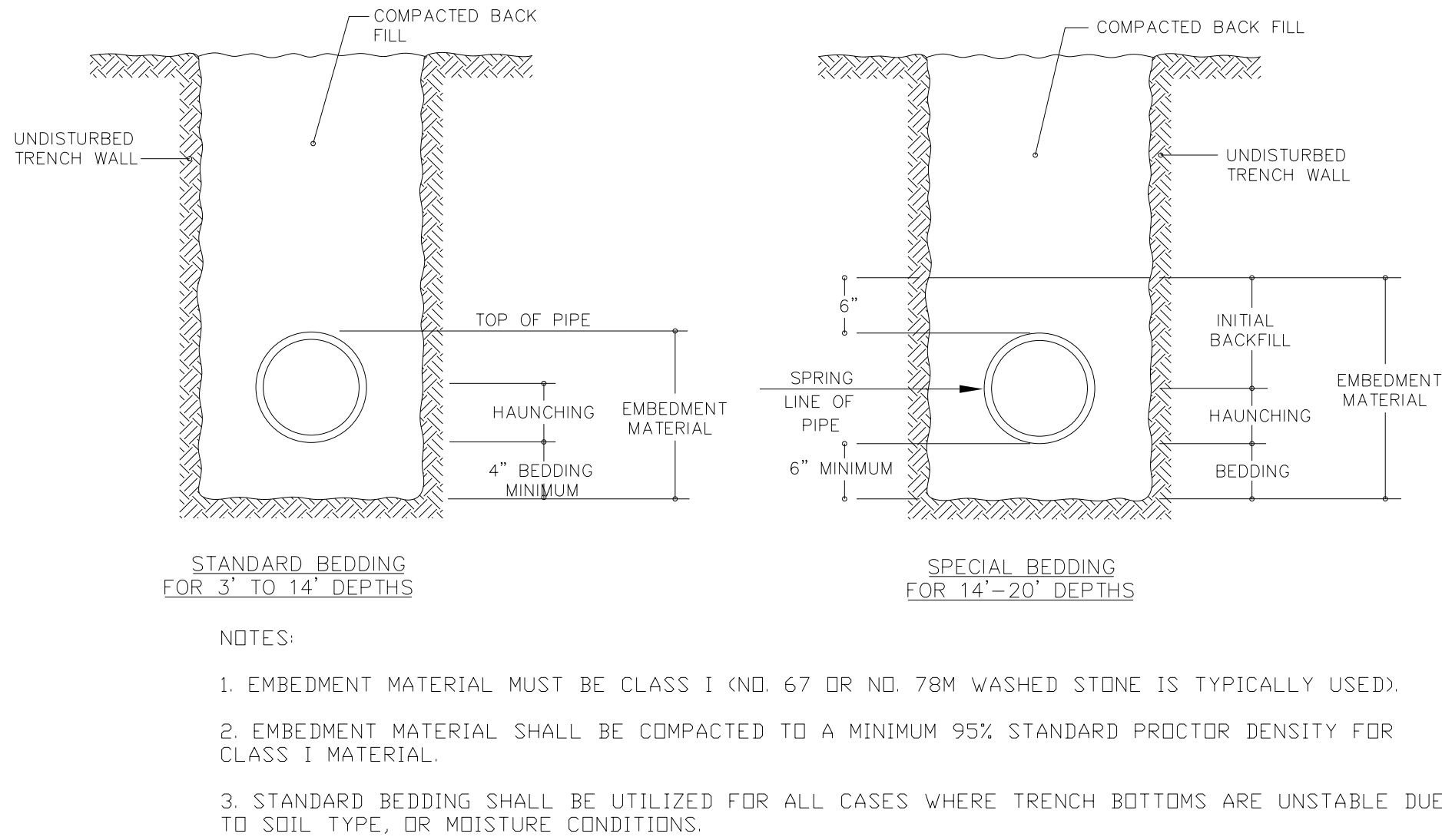
TYPICAL VALVE BOX
NTS



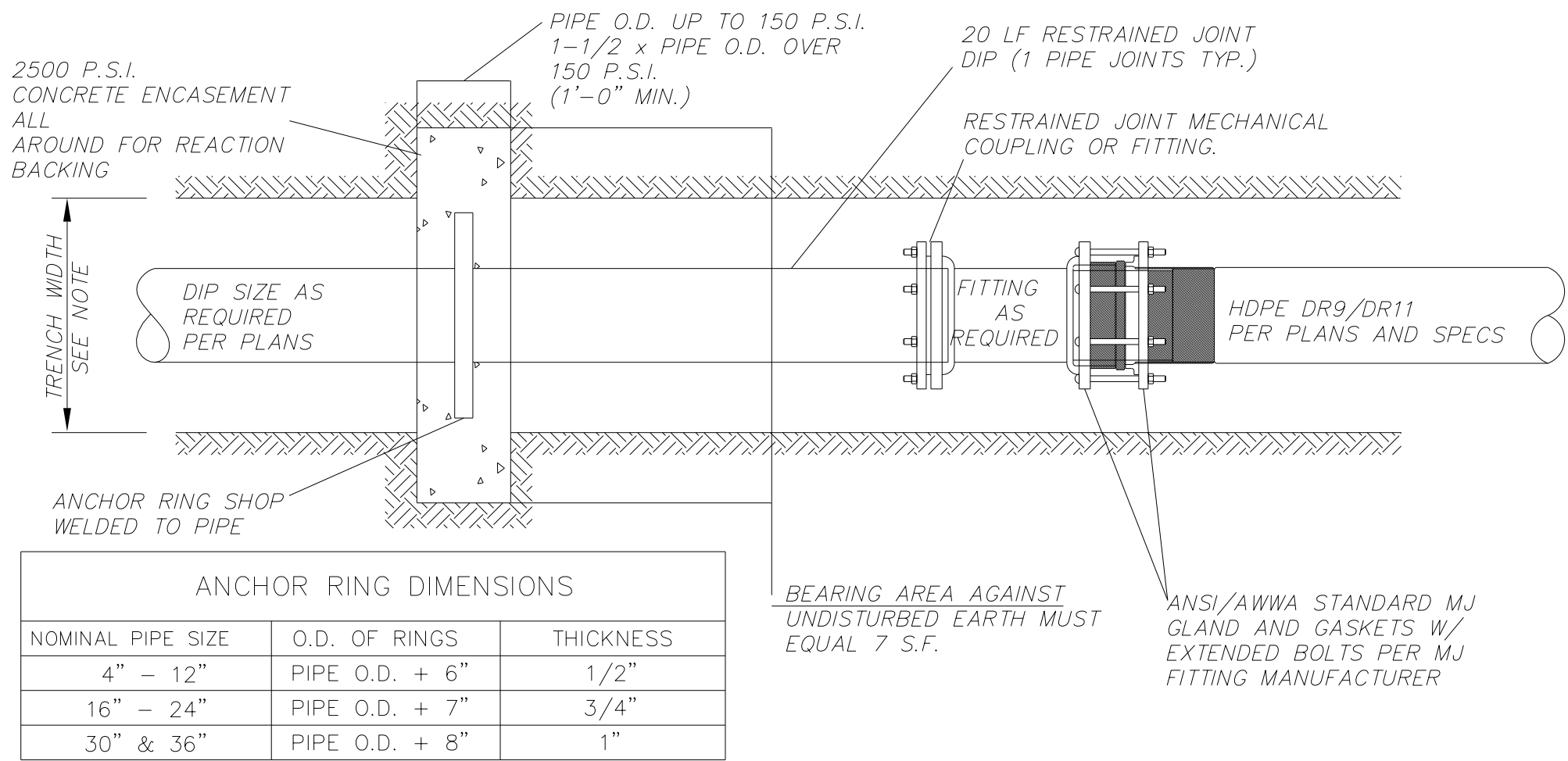
TYPICAL VALVE BOX
NTS



TYPICAL RESILIENT MECHANICAL
JOINT GATE VALVE DETAIL
NTS



TYPICAL BEDDING FOR FLEXIBLE & SEMI-RIGID PIPE
NTS

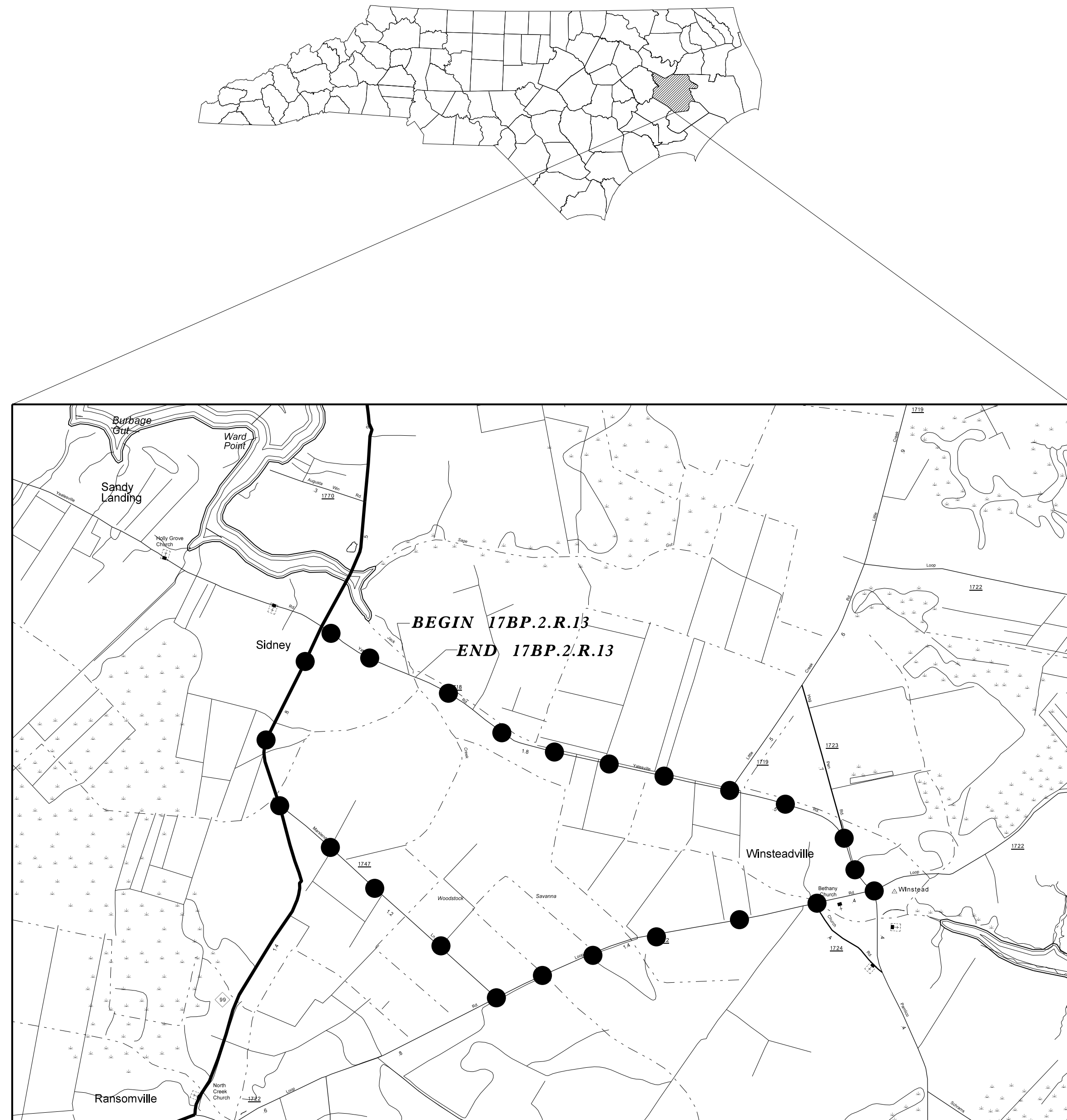


TYPICAL DIP TO HDPE TRANSITION DETAIL WITH THRUST COLLAR
NTS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

BEAUFORT COUNTY



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP & INDEX OF SHEETS; LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS & LEGEND
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANAUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM

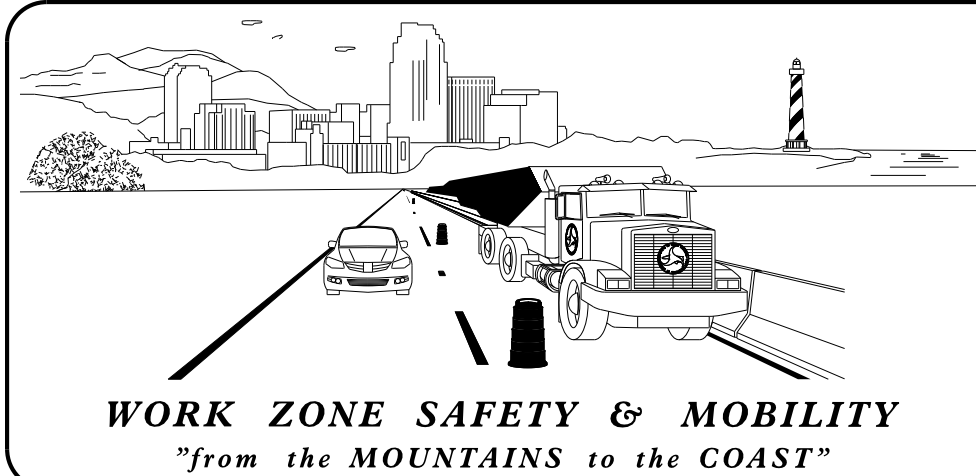
LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA

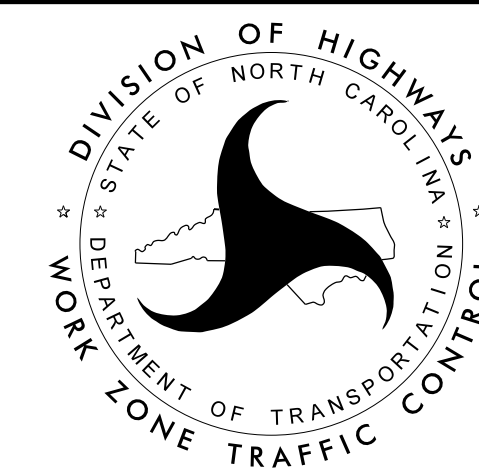
TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER



N.C.D.O.T. DIVISION TWO DDC
1704 N. GREENE ST.
GREENVILLE, NC 27835
PHONE 252-439-2800

DWAYNE ALLIGOOD TRAFFIC CONTROL PROJECT ENGINEER
LANG JONES TRAFFIC CONTROL PROJECT DESIGN ENGINEER
LANG JONES TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: *Dwayne H. Alligood*
DATE: 02/07/2013

SEAL



17BP.2.R.13

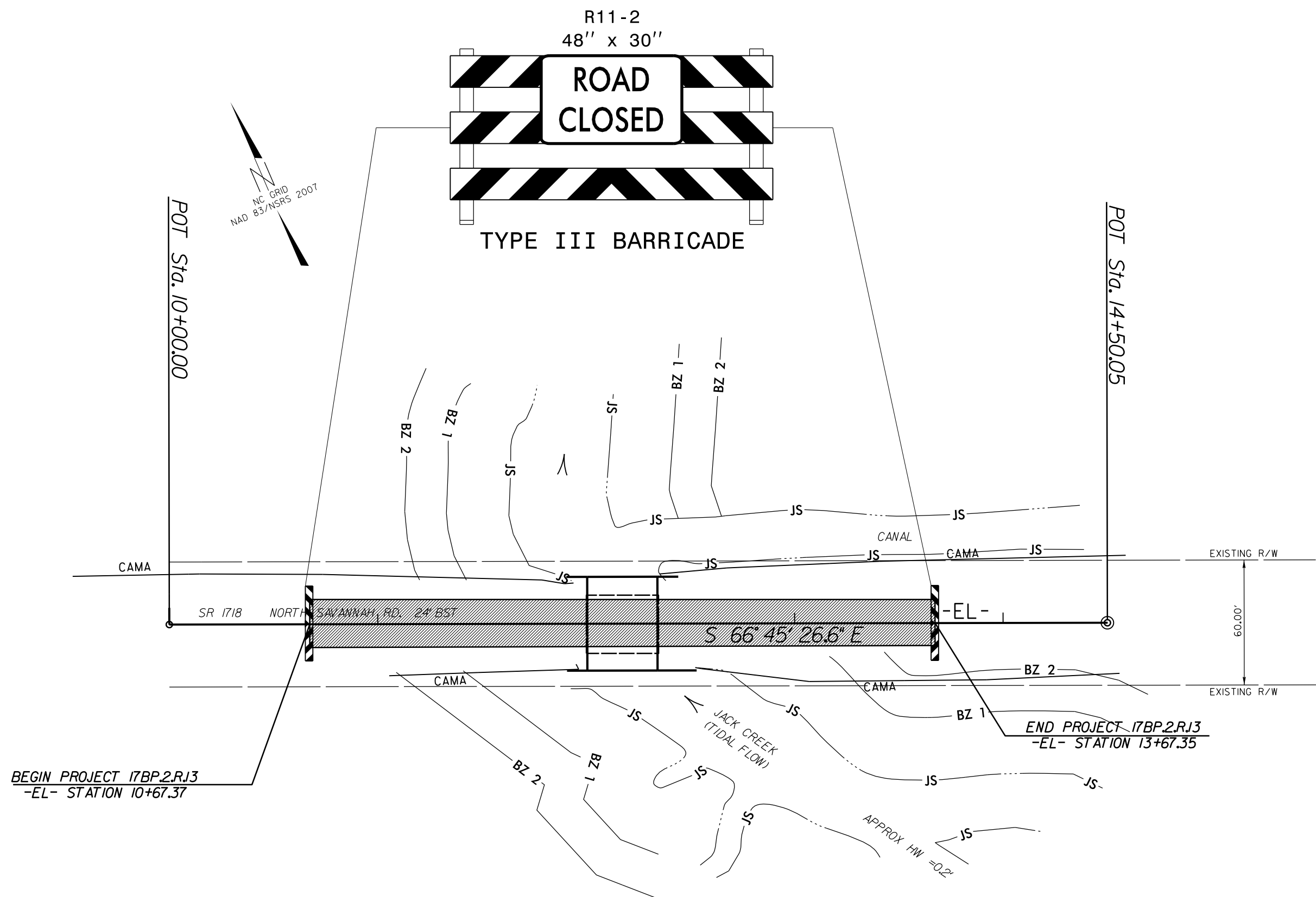
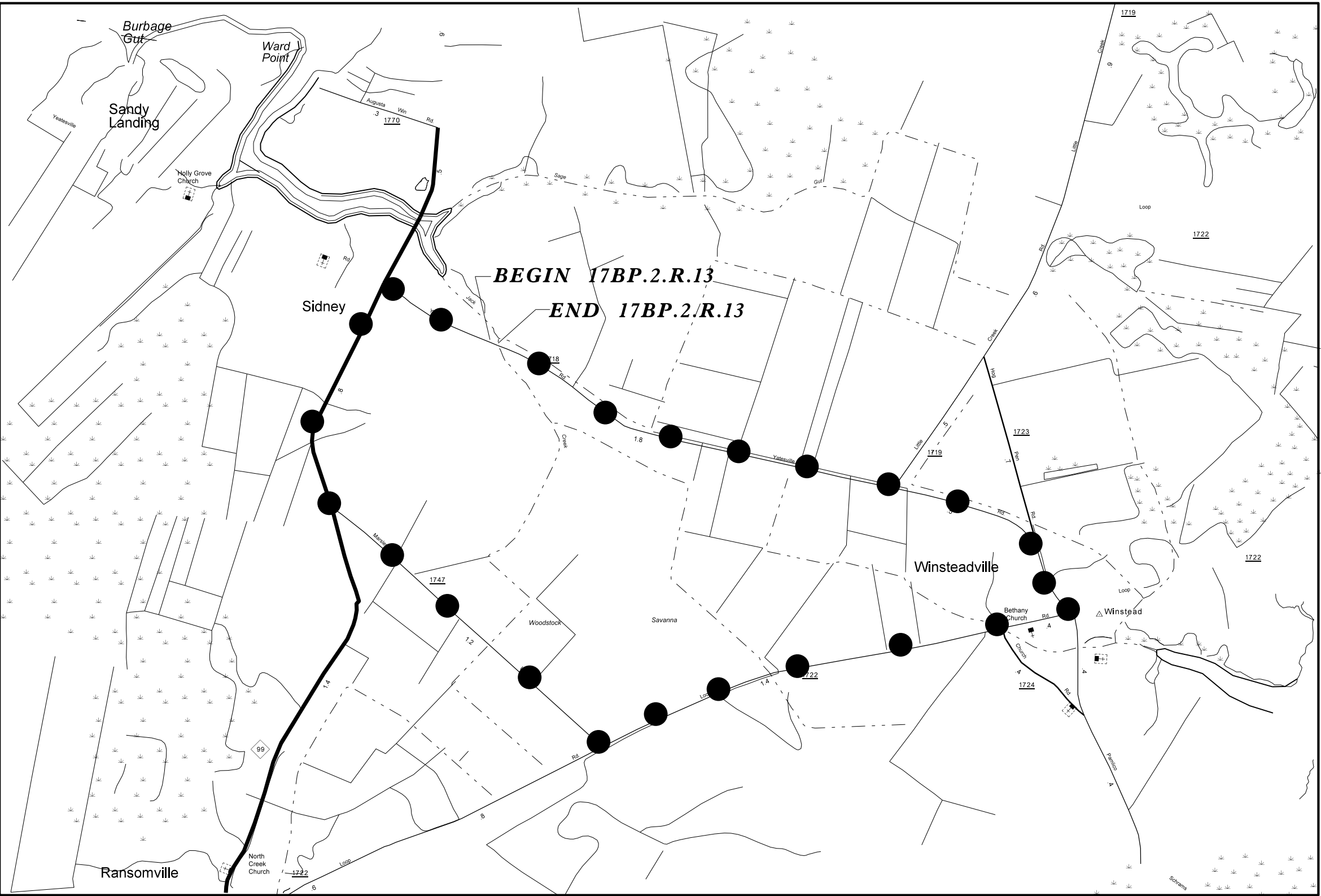
PROJECT:

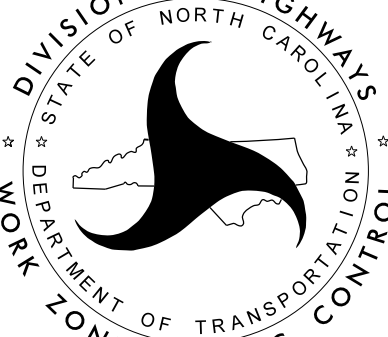
GENERAL NOTES

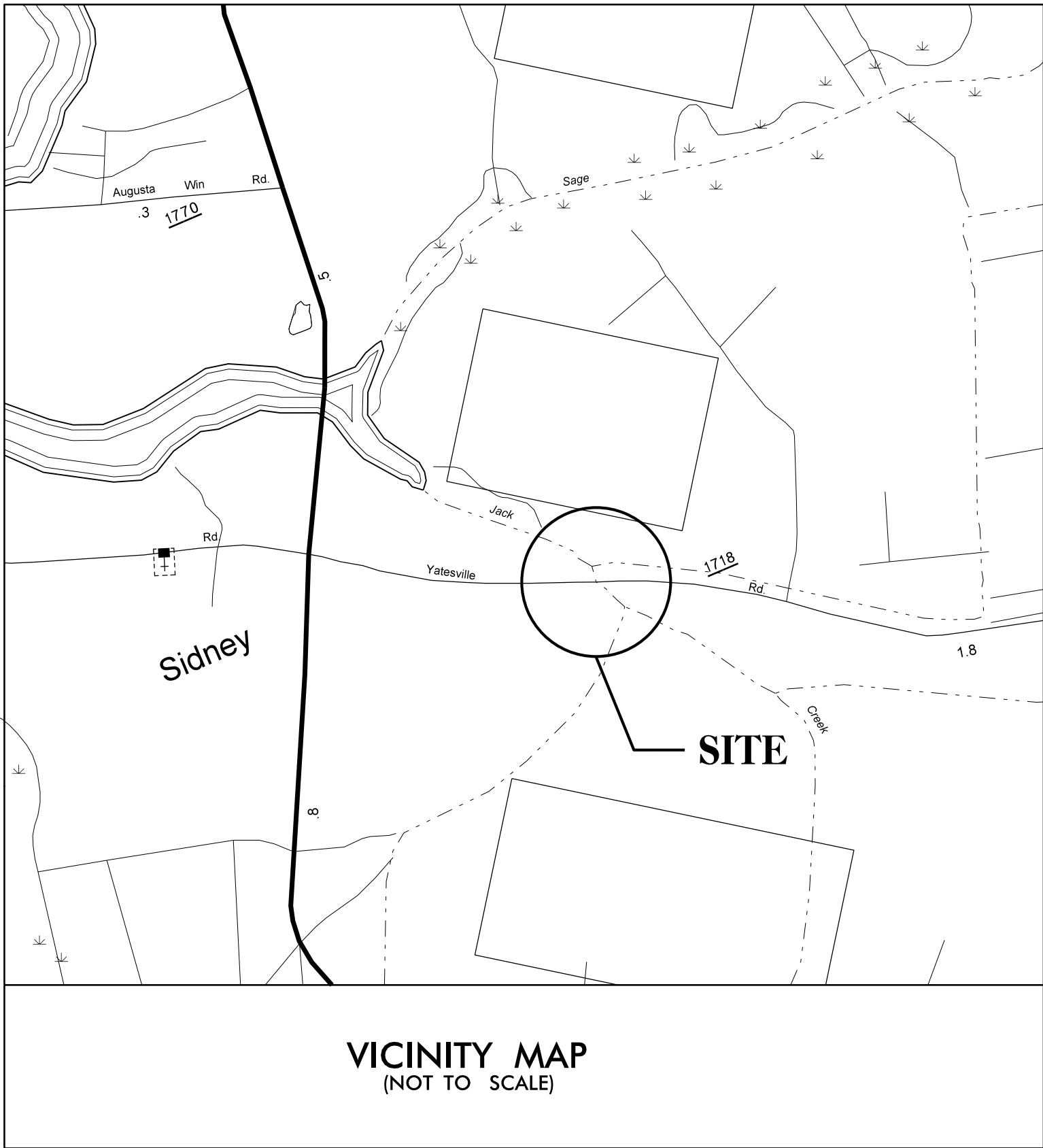
IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

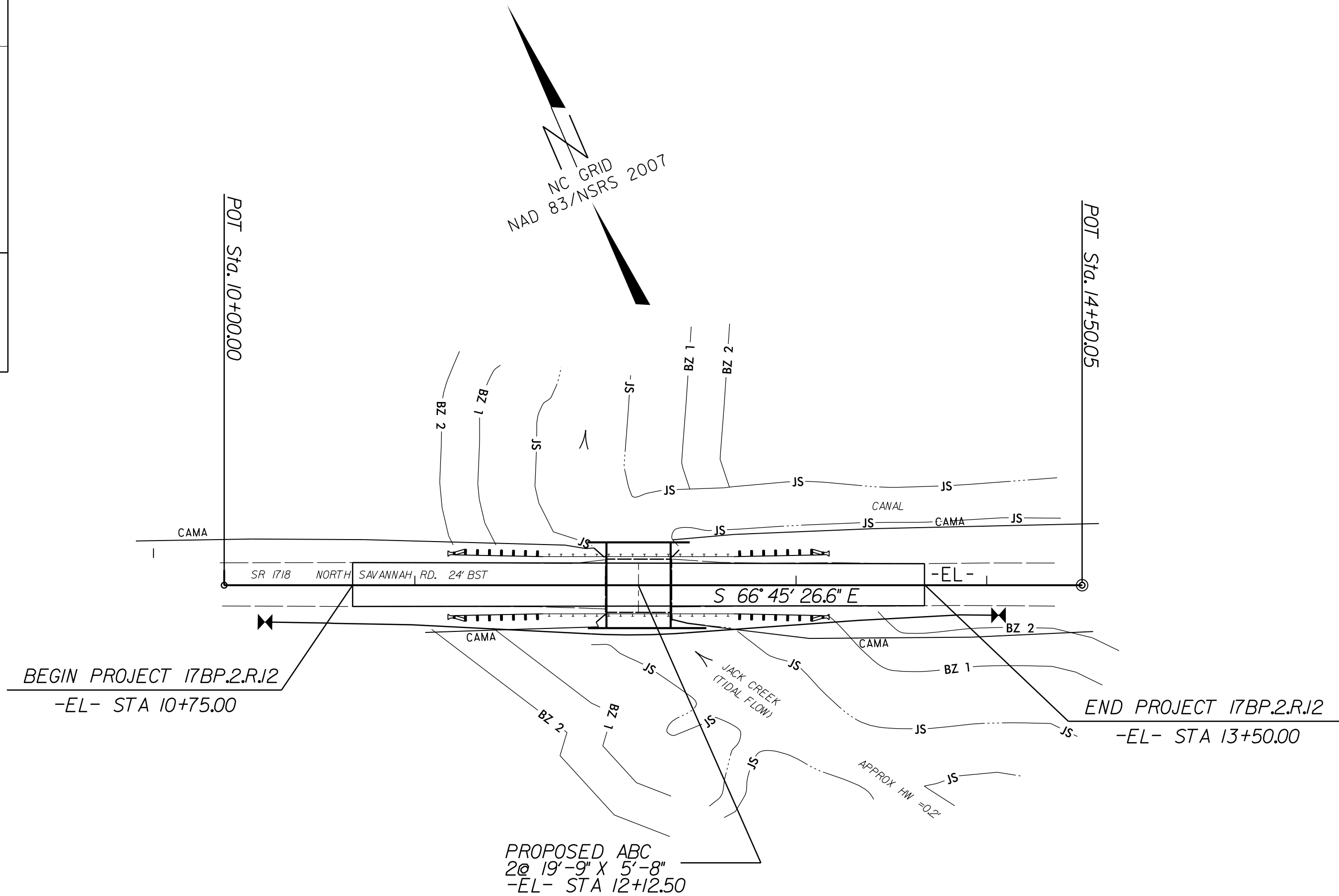
STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR AND THE TYPE III BARRICADES AT THE PROJECT LIMITS. STATE FORCES WILL INSTALL PAINT AND MARKERS ON THE FINISHED PROJECT. CALL JIM EVANS AT 252-830-3493 FOR COORDINATION.



APPROVED: <i>Wayne H. Allgood</i> DATE: 02/07/2015		
SEAL 		



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



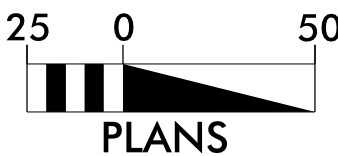
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.2.R.13	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	SCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	SCA
1633.02	Temporary Rock Silt Check Type-B	SCB
	Wattle / Coir Fiber Wattle	W
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	SDA
1634.02	Temporary Rock Sediment Dam Type-B	SDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	STPA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	STPB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB
	Rock Inlet Sediment Trap:	
1632.01	Type A	STA
1632.02	Type B	STB
1632.03	Type C	STC
	Skimmer Basin	SB
	Tiered Skimmer Basin	SB
	Infiltration Basin	SB

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

GRAPHIC SCALE



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

Lang Jones, DDC Engineer
Level IIIA
Certification #274

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.

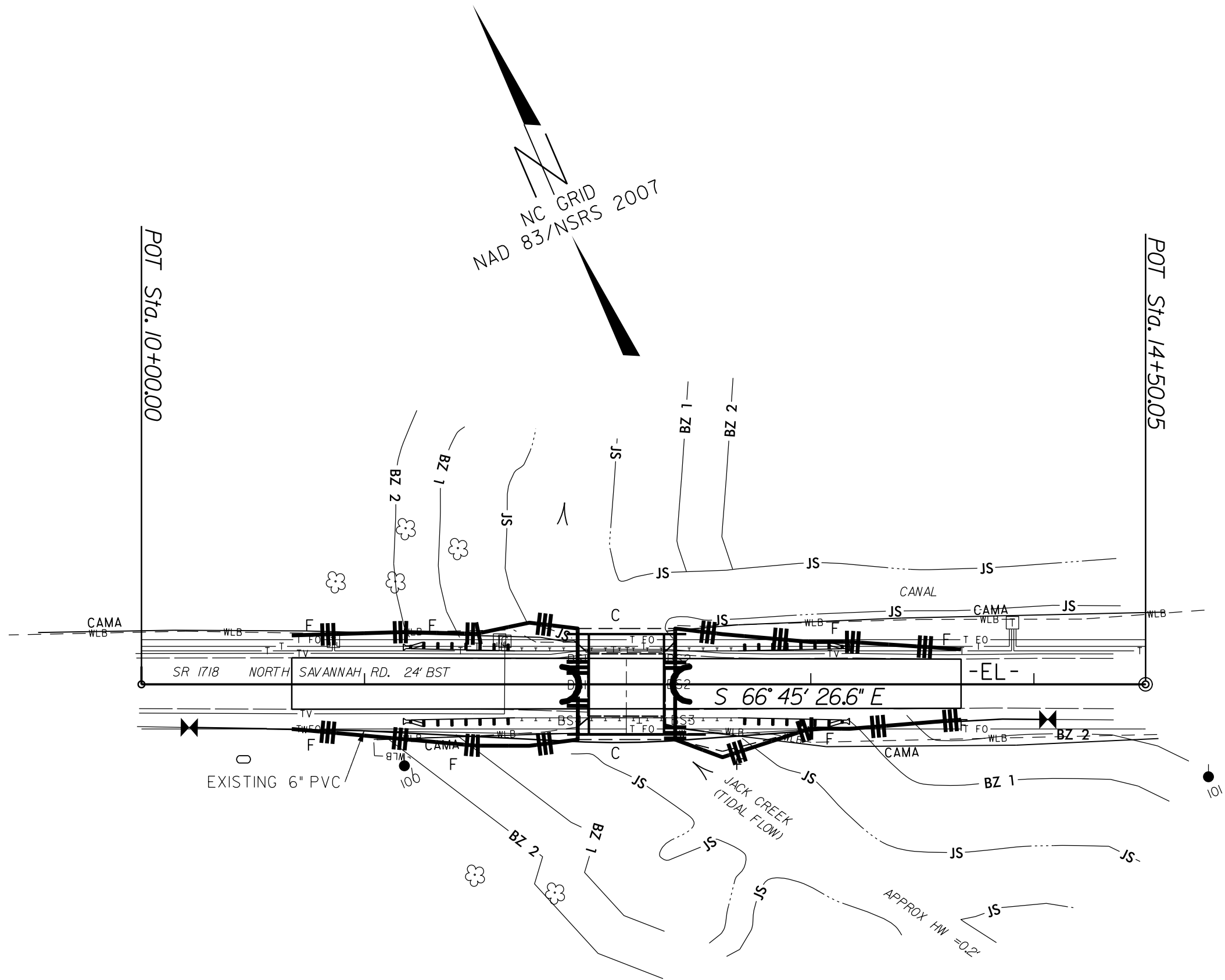
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	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		

8/17/99

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
17BP.2.R.13	EC2



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.

Std. #	Description	Symbol
1605.01	High Vis Temporary Silt Fence.....	
1632.03	Rock Inlet Sediment Trap Type C.....	
SP	Wattle with Polyacrylamide.....	
SP	Wattle.....	
	Ditch Flow Line.....	

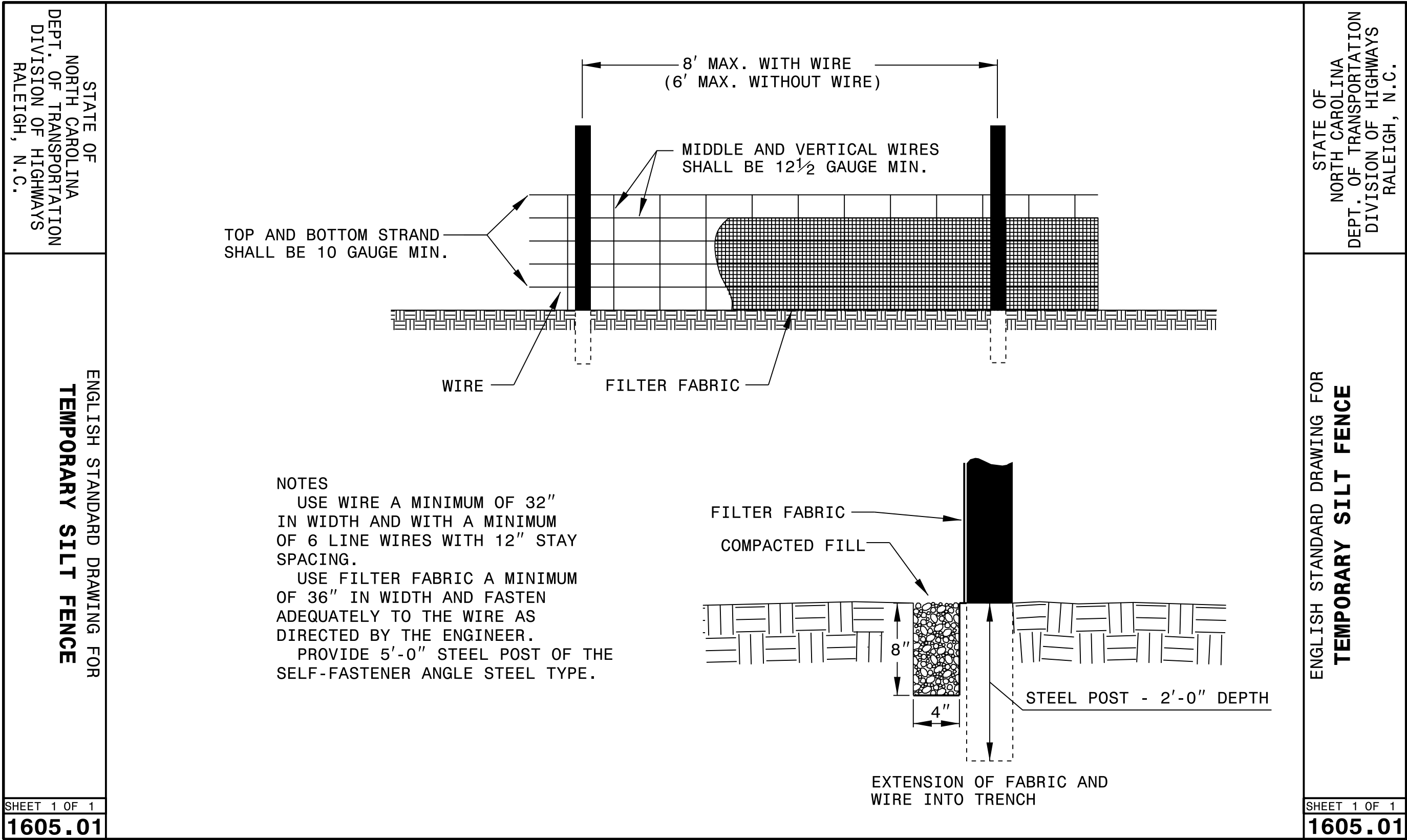
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

REVISIONS

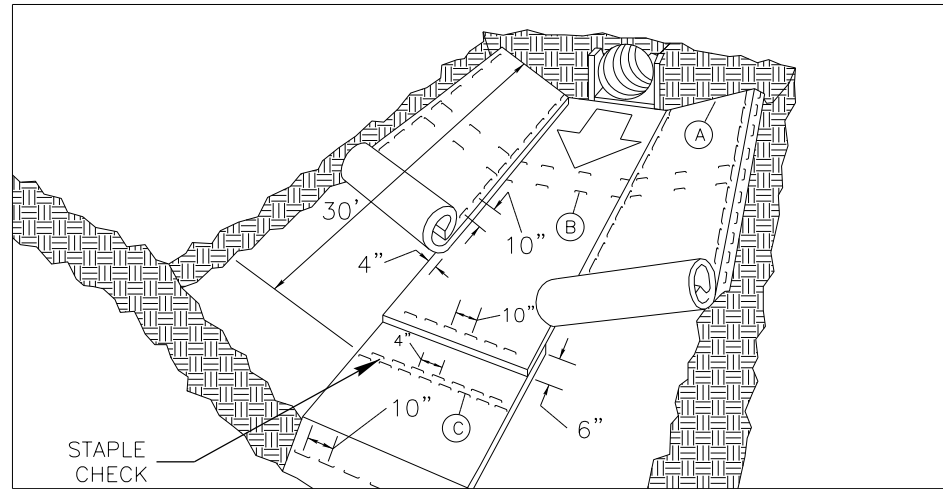
8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
17BP.2.RJ3	EC3



MATting INSTALLATION DETAIL



MATting IN DITCHES

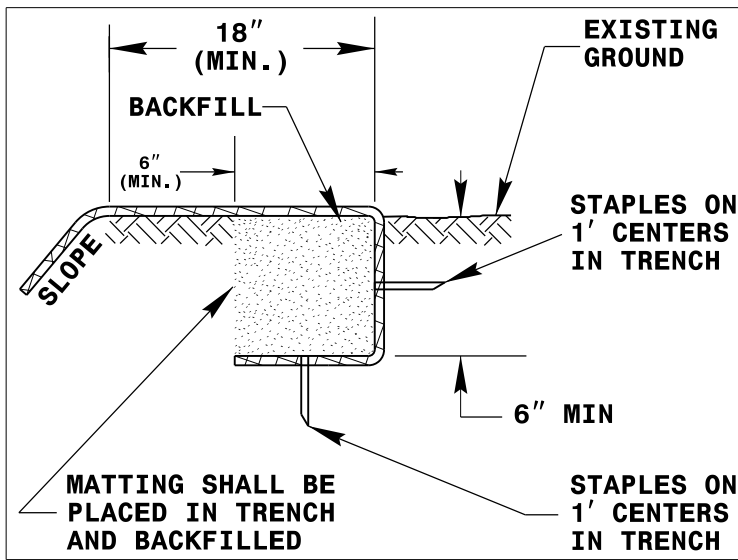
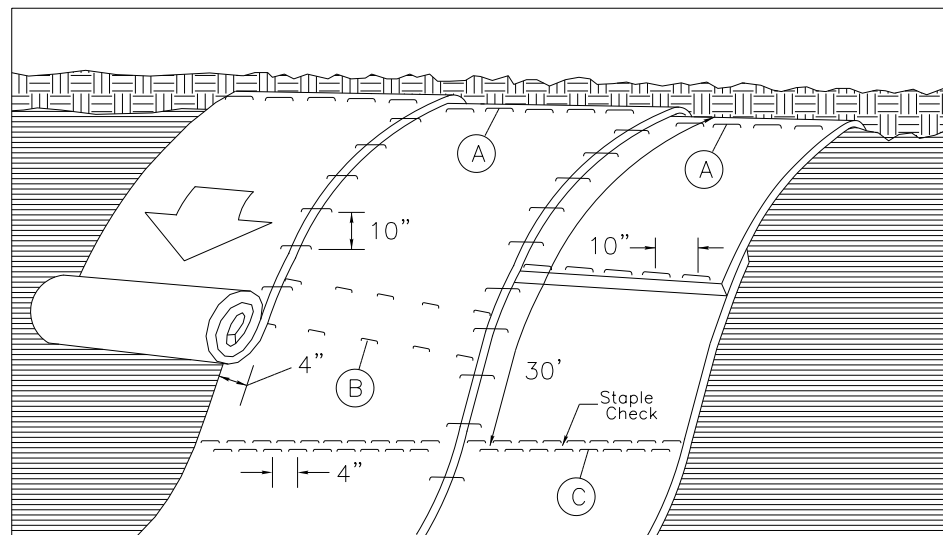


DIAGRAM A



MATting ON SLOPES

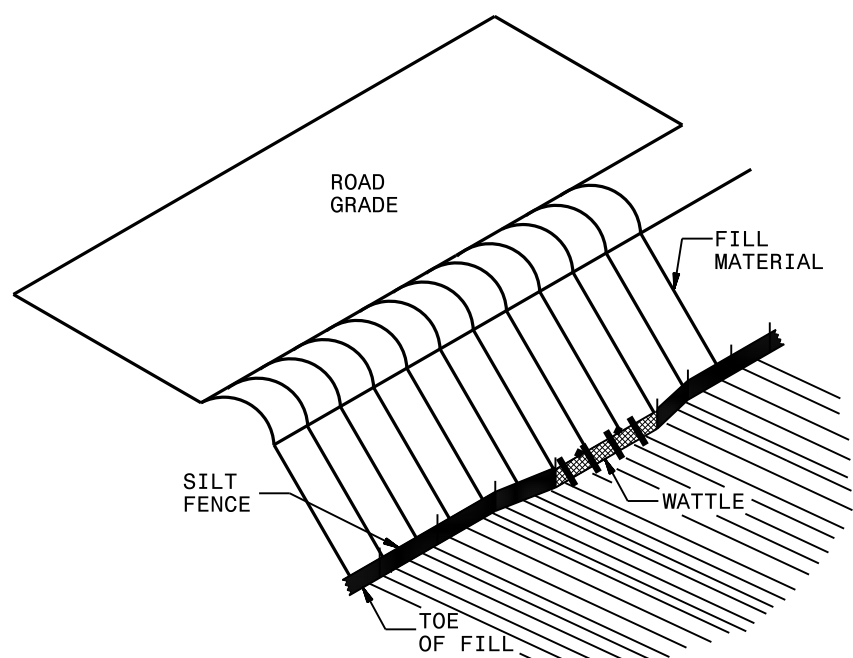
NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

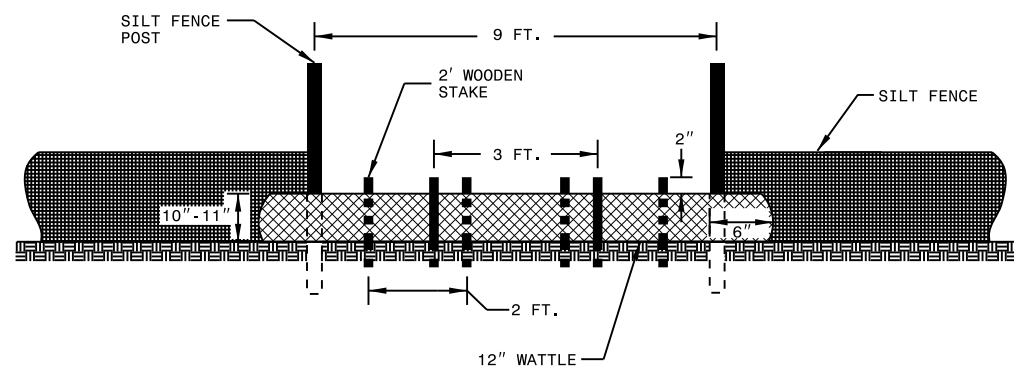
STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

SILT FENCE WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

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.

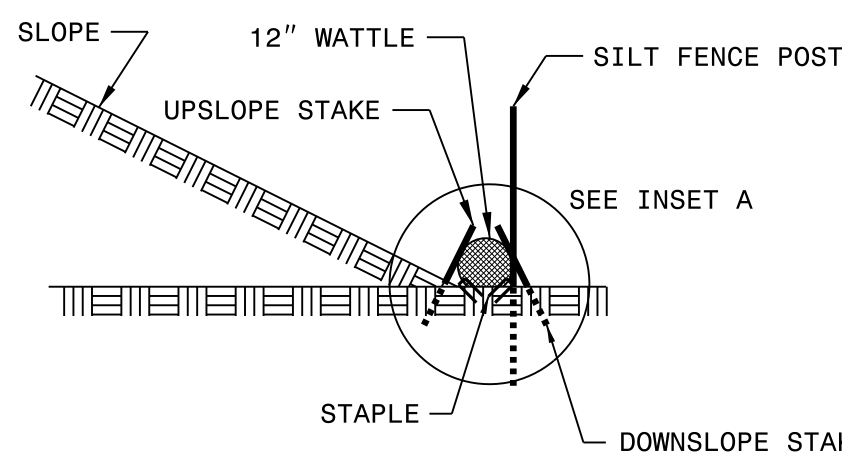
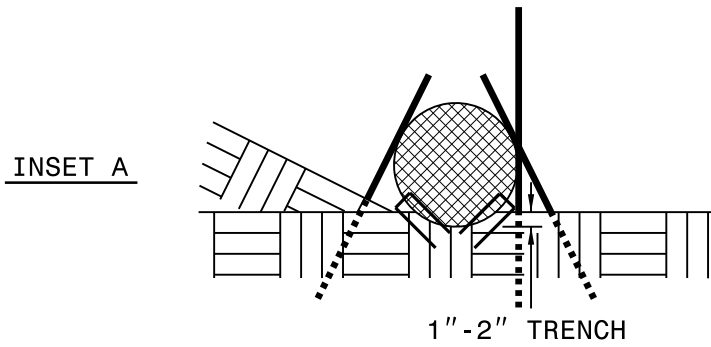
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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.



SIDE VIEW

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY
IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	STRUCTURE EXCAVATION
10 + 67.37	0	0	0	0
11 + 17.37	0	0	19	0
11 + 50.00	0	0	14	0
11 + 73.85	7	0	12	0
11 + 95.52	11	0	23	246
12 + 17.36	5	0	181	340
12 + 39.20	6	0	173	344
12 + 60.42	13	0	17	245
13 + 00.00	12	0	20	0
13 + 17.35	0	0	5	0
13 + 67.35	0	0	9	0

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,
UNCLASSIFIED STRUCTURE 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."

