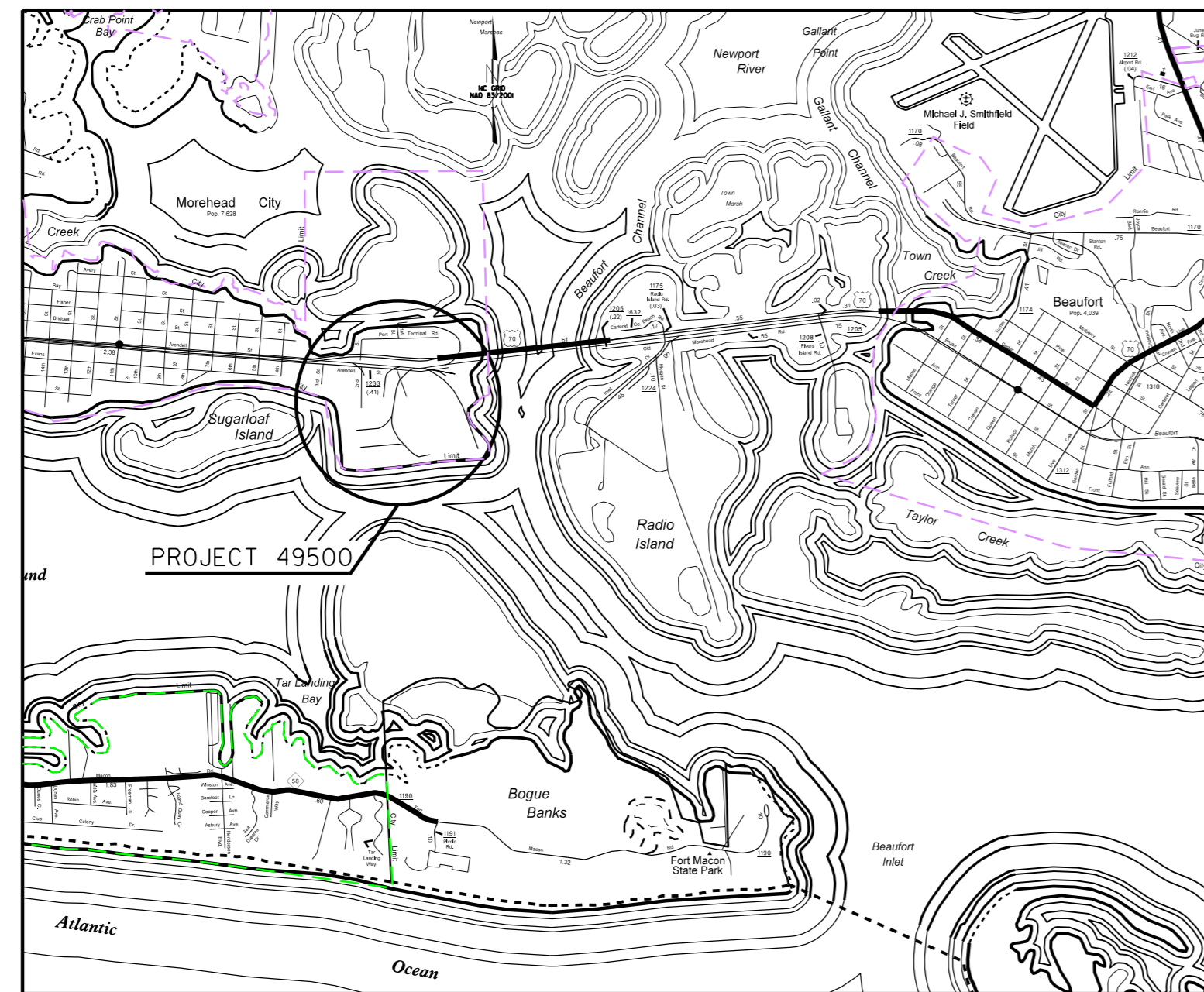


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49500	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

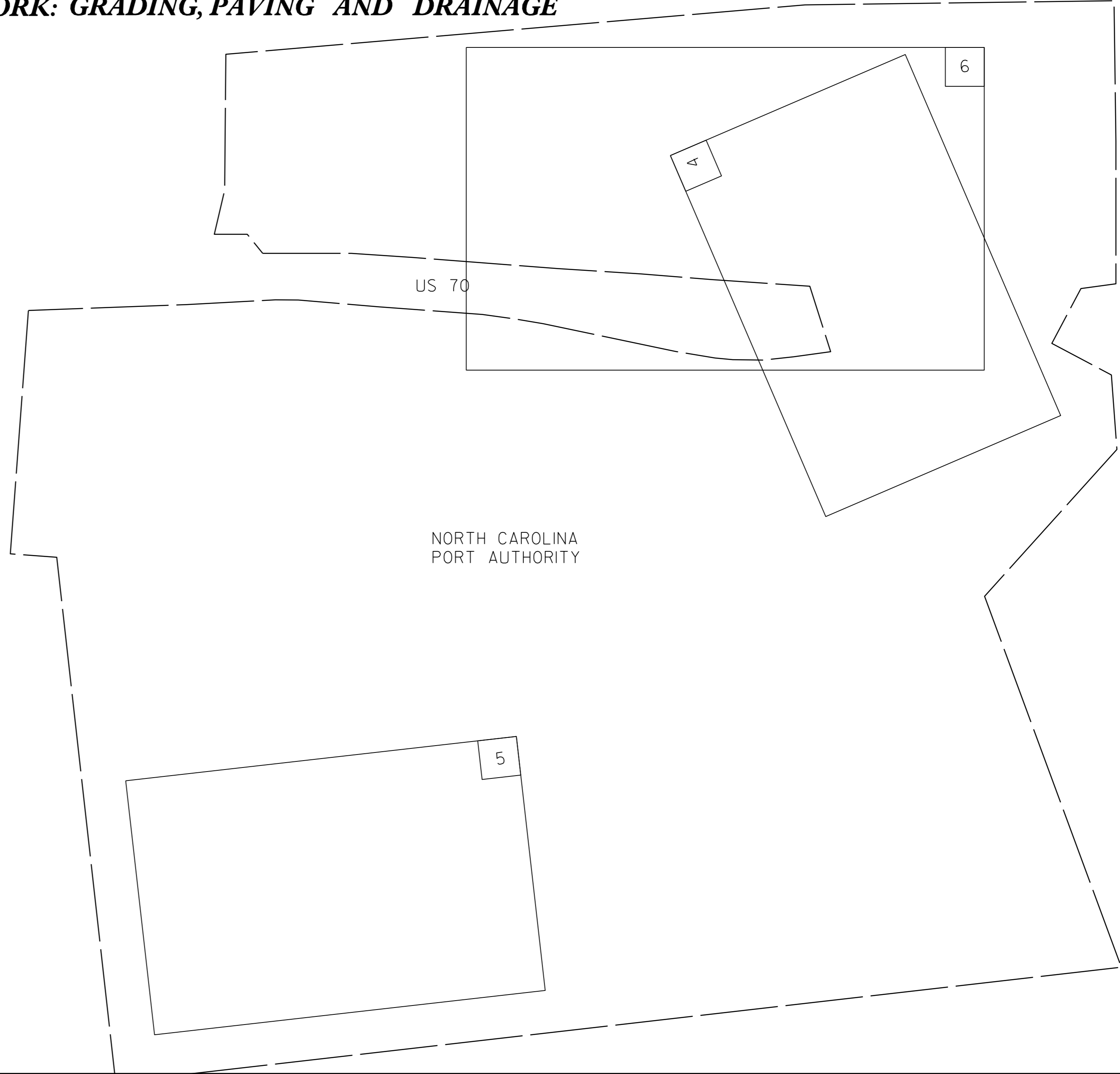
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CARTERET COUNTY**

LOCATION: NORTH CAROLINA PORT AUTHORITY  
TYPE OF WORK: GRADING, PAVING AND DRAINAGE



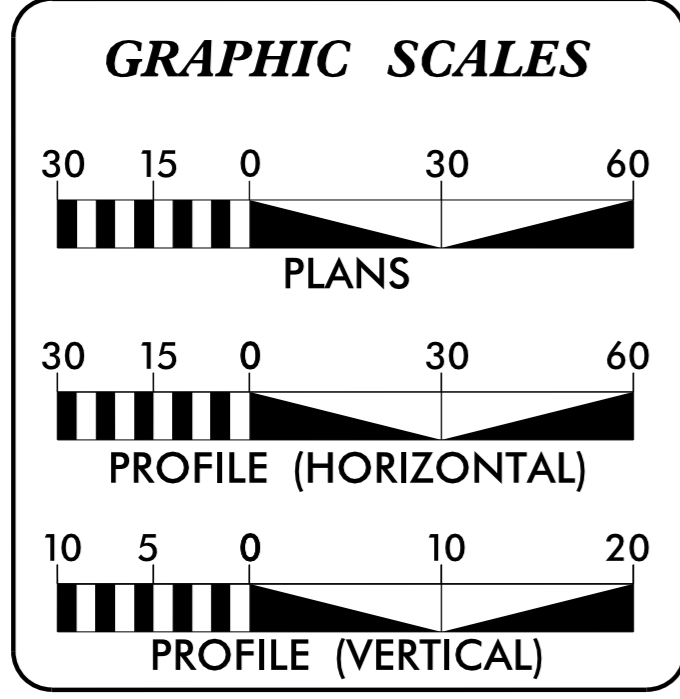
See Sheet 1-A For Index of Sheets



PROJECT: 49500

CONTRACT: 49500

CONTRACT: 49500



**PROJECT LENGTH**

PROJECT 49500 LENGTH = 0.190 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1704 North Greene St., Greenville NC, 27834

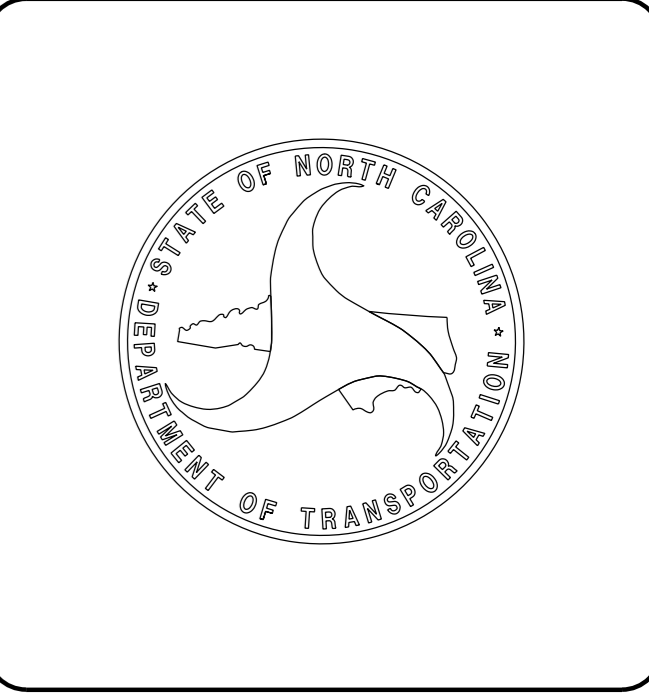
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: NA	DWAYNE ALLIGOOD PROJECT ENGINEER
LETTING DATE: OCTOBER 2014	LANG JONES PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

*Dwayne H. Alligood*  
SIGNATURE: 09/24/2014

**ROADWAY DESIGN ENGINEER**

*Dwayne H. Alligood*  
SIGNATURE: 09/24/2014



09/08/09  
 24-SEP-2014 09:04  
 G:\PROJECTS\CARTERET\NCPA\NCPA\_PSHI.DGN  
 \$\$\$USERNAME\$\$\$

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
2A	DETAILS - EROSION CONTROL
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF DRAINAGE, EARTHWORK AND PAVEMENT REMOVAL
4-6	PLAN SHEETS
X1A	CROSS-SECTION SUMMARY
X1-X4	CROSS-SECTIONS

GENERAL NOTES:

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

GRADE LINE:  
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED 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 11
225.02	Guide for Grading Subgrade - Secondary and Local
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 8 - INCIDENTALS	
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
846.01	Concrete Curb, Gutter and Curb & Gutter

12/05/11

Note: Not to Scale

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

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	----->
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- MLB
Proposed Wetland Boundary	--- MLB
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	--- MLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION 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	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW ▲
Proposed Right of Way Line with Concrete or Granite RW Marker	----- RW ●
Proposed Control of Access Line with Concrete CA Marker	----- CA
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 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	⊕
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:

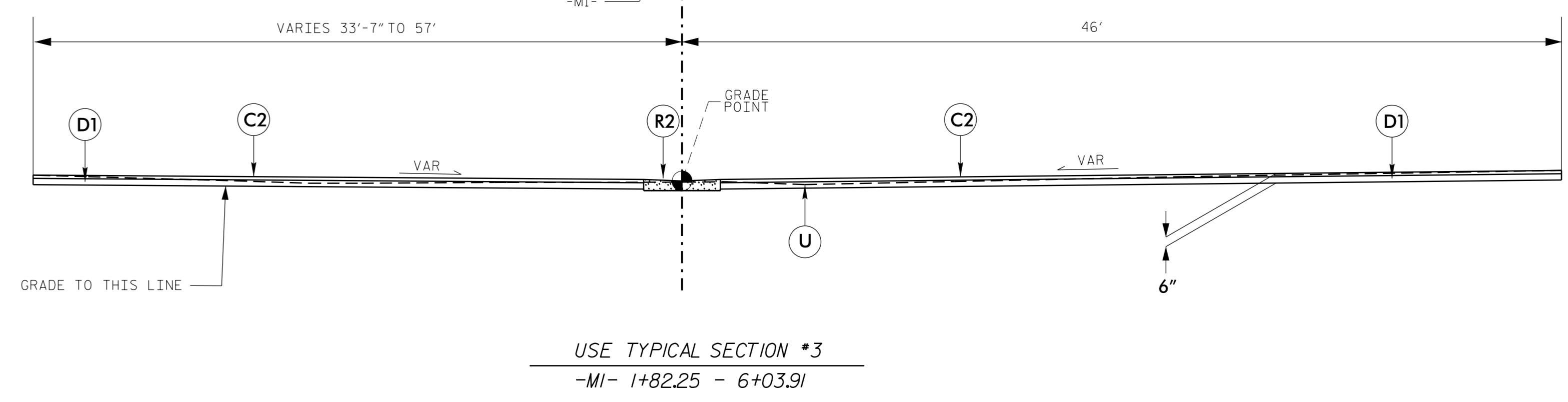
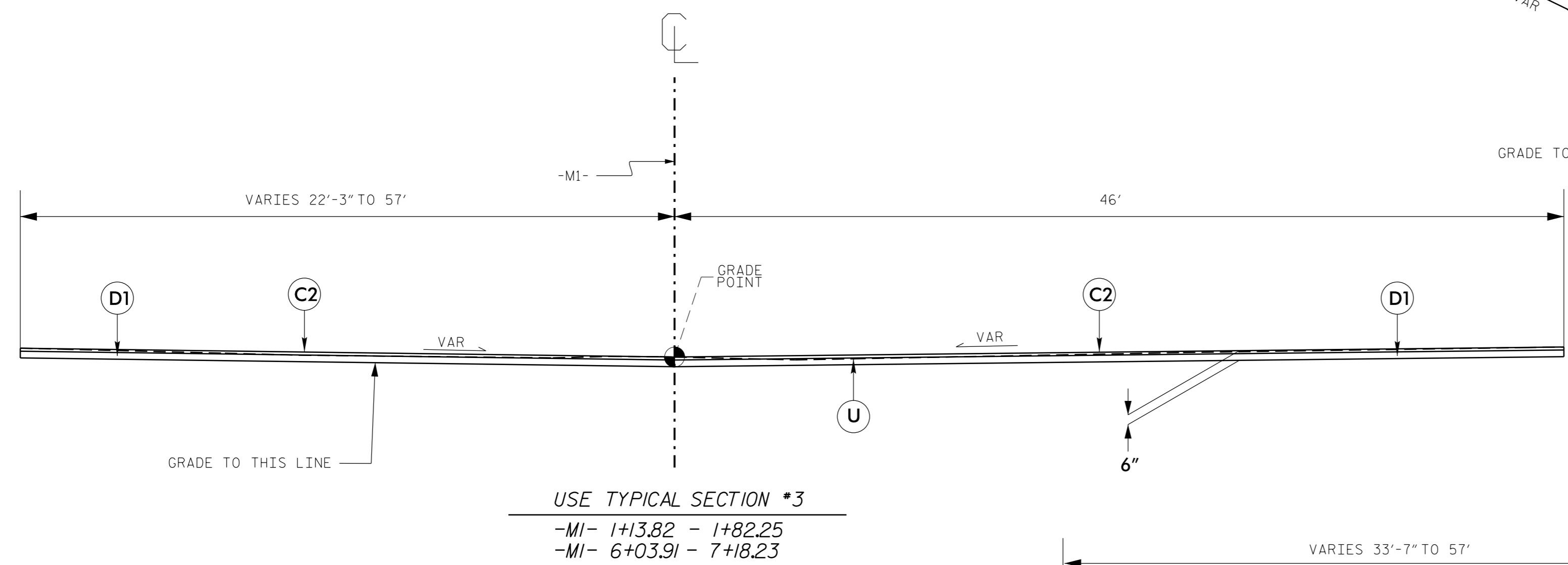
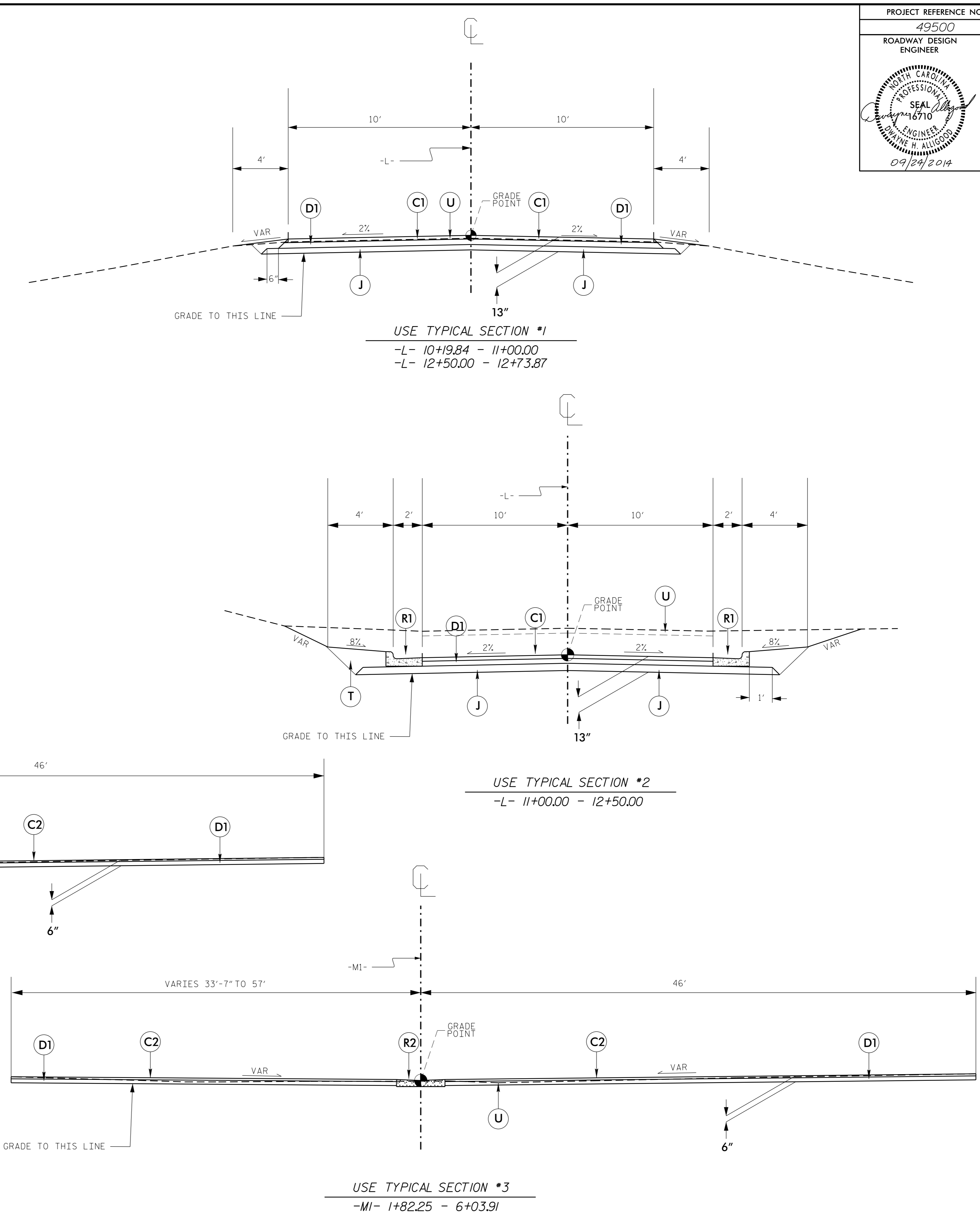
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to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

PROJECT REFERENCE NO.	SHEET NO.
49500	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

6/2/99  
24 SEP 2014 09:04  
C:\PROJECTS\NCPA\ncpa\_psh2.dgn  
D:\USER\NCPA\NCPA\_PSH2.DGN

<b>C1</b>	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
<b>C2</b>	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
<b>D1</b>	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
<b>J</b>	PROP. APPROX. 6" AGGREGATE BASE COURSE
<b>R1</b>	PROPOSED 2' - 6" CONCRETE CURB AND GUTTER
<b>R2</b>	PROPOSED 4' - 0" CONCRETE VALLEY GUTTER
<b>T</b>	EARTH MATERIAL.
<b>U</b>	EXISTING PAVEMENT.(TO BE REMOVED)

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





## DETAILS - EROSION CONTROL

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<p style="text-align: center;"><b>SECTION A-A</b> MULTI-DIRECTIONAL FLOW</p> <p style="text-align: center;"><b>SECTION Y-Y</b> SINGLE-DIRECTIONAL FLOW</p> <p style="text-align: center;">NOT TO SCALE</p>	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
<b>ENGLISH STANDARD DRAWING FOR ROCK INLET SEDIMENT TRAP TYPE 'C'</b>	<b>ENGLISH STANDARD DRAWING FOR ROCK INLET SEDIMENT TRAP TYPE 'C'</b>	<b>ENGLISH STANDARD DRAWING FOR ROCK INLET SEDIMENT TRAP TYPE 'C'</b>
SHEET 1 OF 1 <b>1632.03</b>	SHEET 1 OF 1 <b>1632.03</b>	SHEET 1 OF 1 <b>1632.03</b>

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<p style="text-align: center;"><b>TEMPORARY SILT FENCE</b></p> <p style="text-align: center;">NOT TO SCALE</p>	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
<b>ENGLISH STANDARD DRAWING FOR TEMPORARY SILT FENCE</b>	<b>ENGLISH STANDARD DRAWING FOR TEMPORARY SILT FENCE</b>	<b>ENGLISH STANDARD DRAWING FOR TEMPORARY SILT FENCE</b>
SHEET 1 OF 1 <b>1605.01</b>	SHEET 1 OF 1 <b>1605.01</b>	SHEET 1 OF 1 <b>1605.01</b>

REVISIONS

8/17/99

24 SEP 2014 09:04 AM  
C:\PROJECTS\2014\ERET\NCPA\NCPA-ps-h2A.dgn  
938415121.DWG

8/17/99

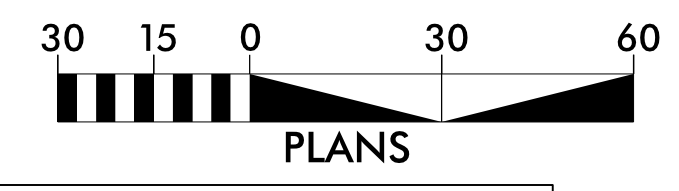
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
SUMMARY OF QUANTITIES

ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
1	800	1	LS	MOBILIZATION
2	801	1	LS	CONSTRUCTION SURVEYING
3	SP	1	LS	GRADING
4	300	20	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
5	300	50	SY	FOUNDATION CONDITIONING GEOTEXTILE
6	310	102	LF	15" R.C. PIPE CULVERTS, CLASS IV
7	310	36	LF	18" R.C. PIPE CULVERTS, CLASS IV
8	520	270	TON	AGGREGATE BASE COURSE
9	610	1430	TON	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0B
10	610	750	TON	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
11	620	115	TON	ASPHALT BINDER FOR PLANT MIX
12	840	3	EA	MASONRY DRAINAGE STRUCTURES
13	840	3	EA	FRAME, GRATES AND HOOD (STD 840.03)
14	846	300	LF	2' - 6" CONCRETE CURB AND GUTTER
15	846	412	LF	4' - 0" CONCRETE VALLEY GUTTER
16	1605	100	LF	TEMPORARY SILT FENCE
17	1610	15	TON	SEDIMENT CONTROL STONE
18	1620	50	LB	SEED FOR TEMPORARY SEEDING
19	1620	0.2	TON	FERTILIZER FOR TEMPORARY SEEDING
20	1630	30	CY	SILT EXCAVATION
21	1632	370	LF	1/4" HARDWARE CLOTH
22	1660	0.5	ACRE	SEEDING AND MULCHING

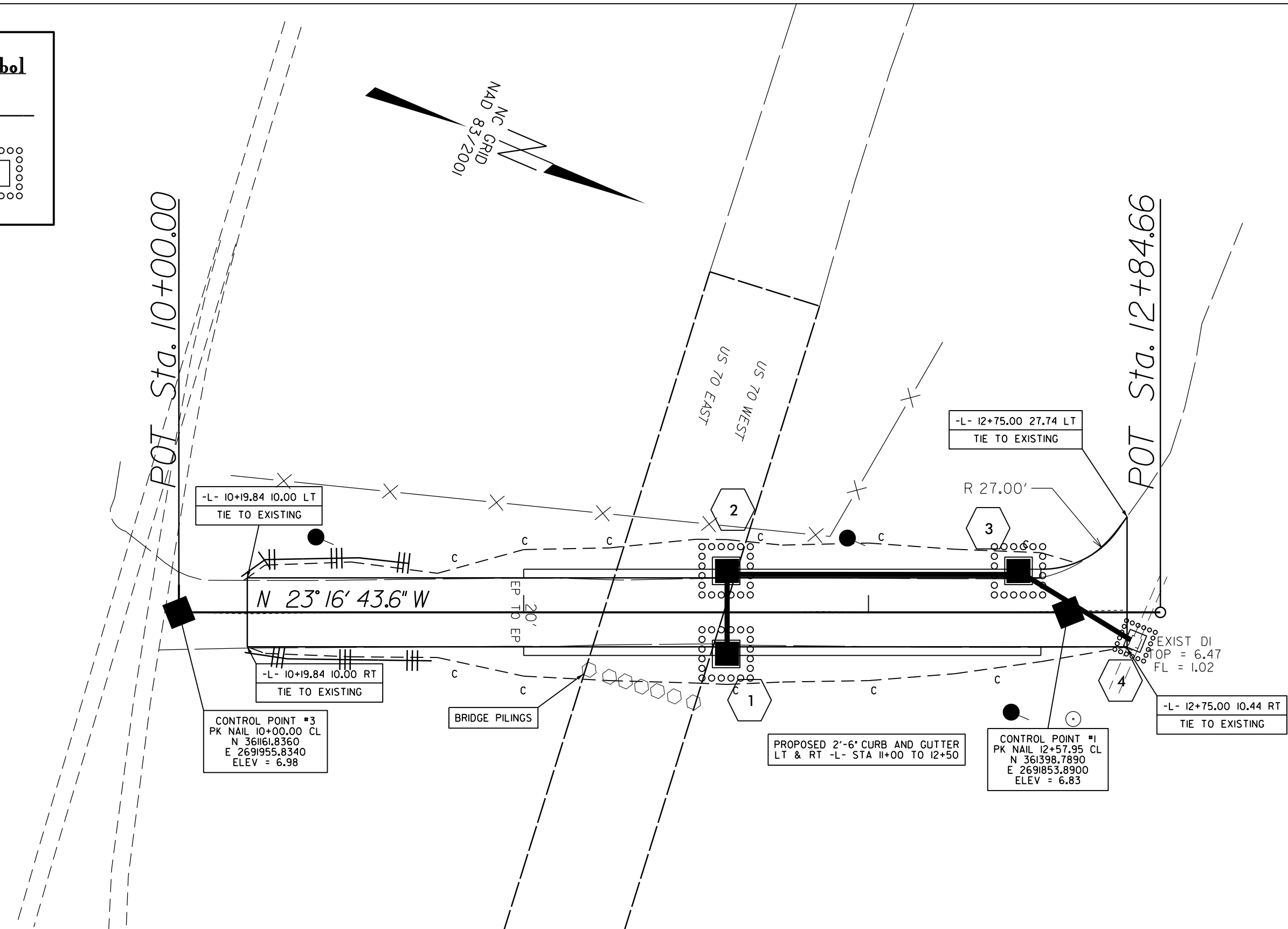
REVISIONS

24\SEP\_2014\_09:04  
9:58 AM  
G:\PROJECTS\NCPA\NCPA\_psh3.dgn

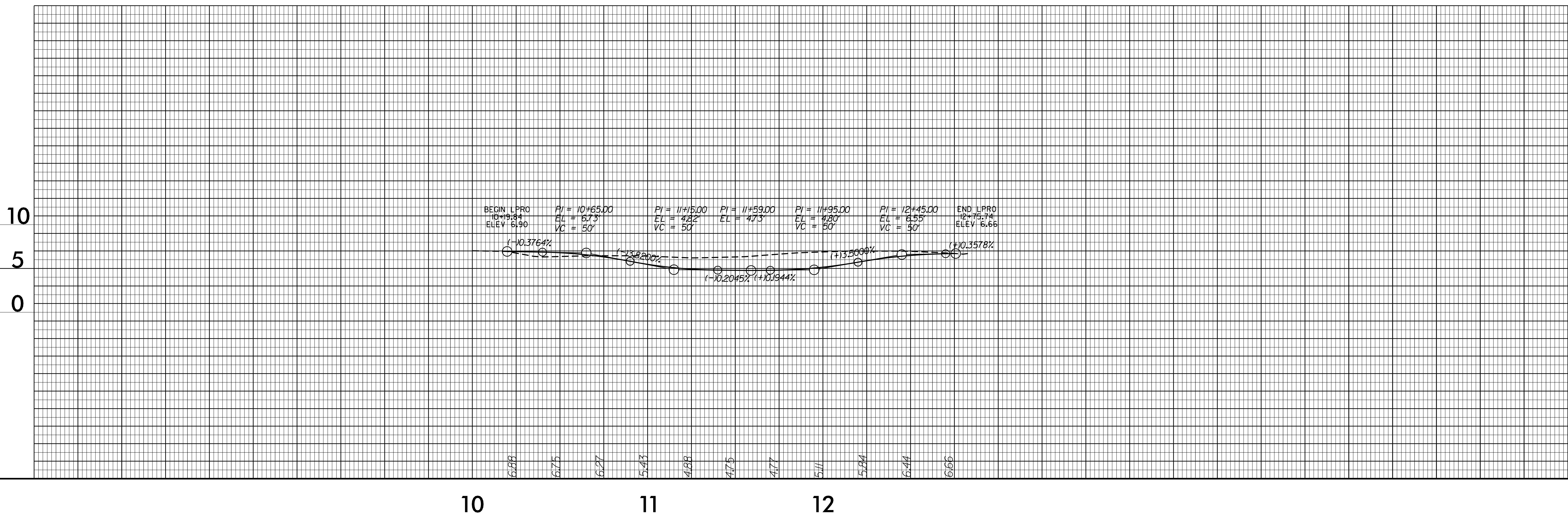




Std. #	Description	Symbol
1605.01	High Vis Temporary Silt Fence	
1632.03	Rock Inlet Sediment Trap Type C	□



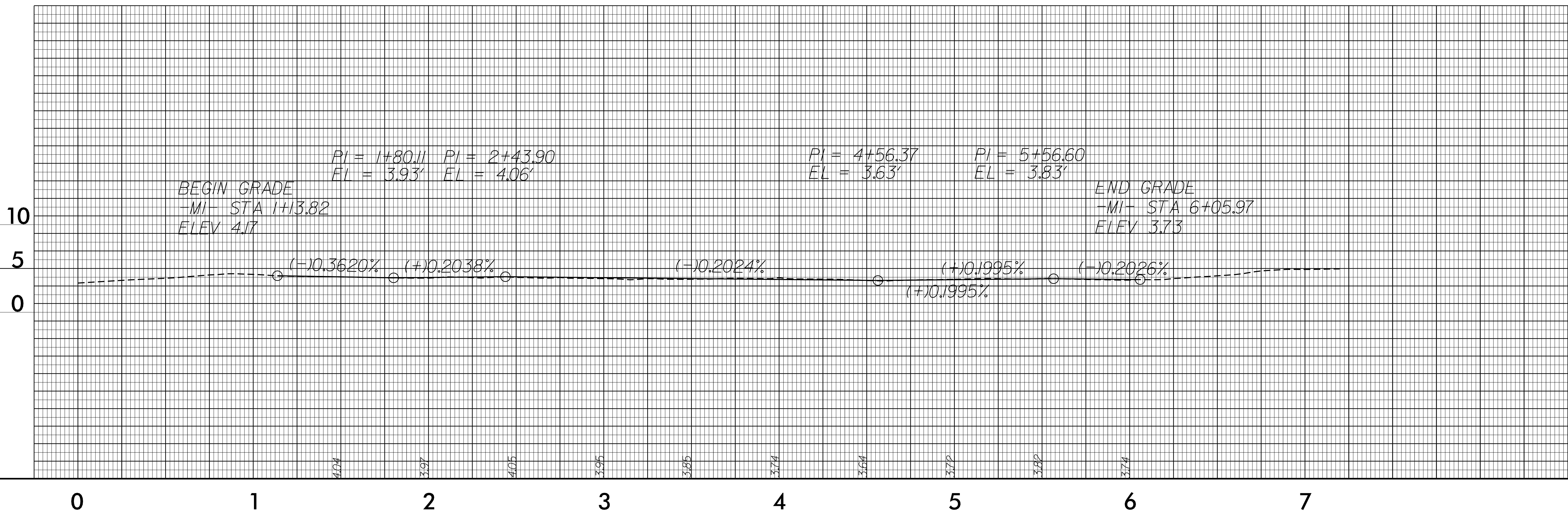
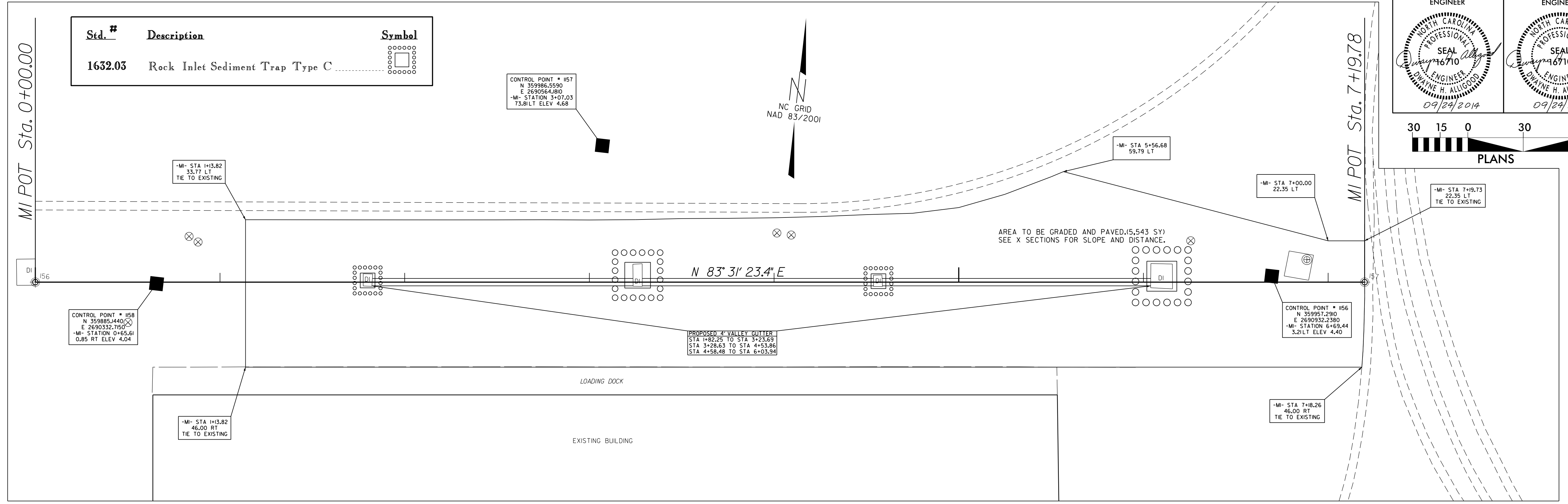
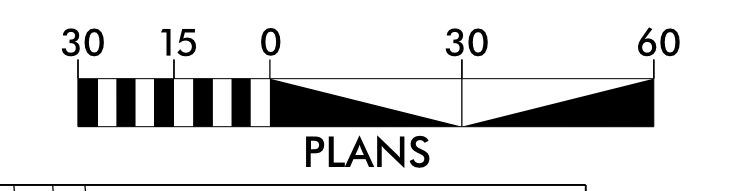
REVISIONS



24 SEP 2014 09:04 AM C:\PROJECT\NCPA\ncpa.psh4.dgn

8/17/99

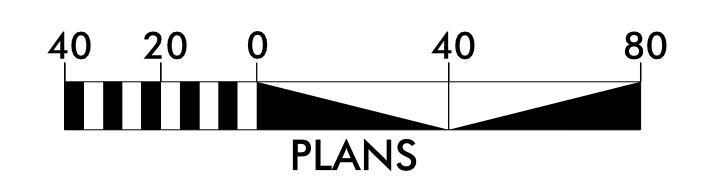




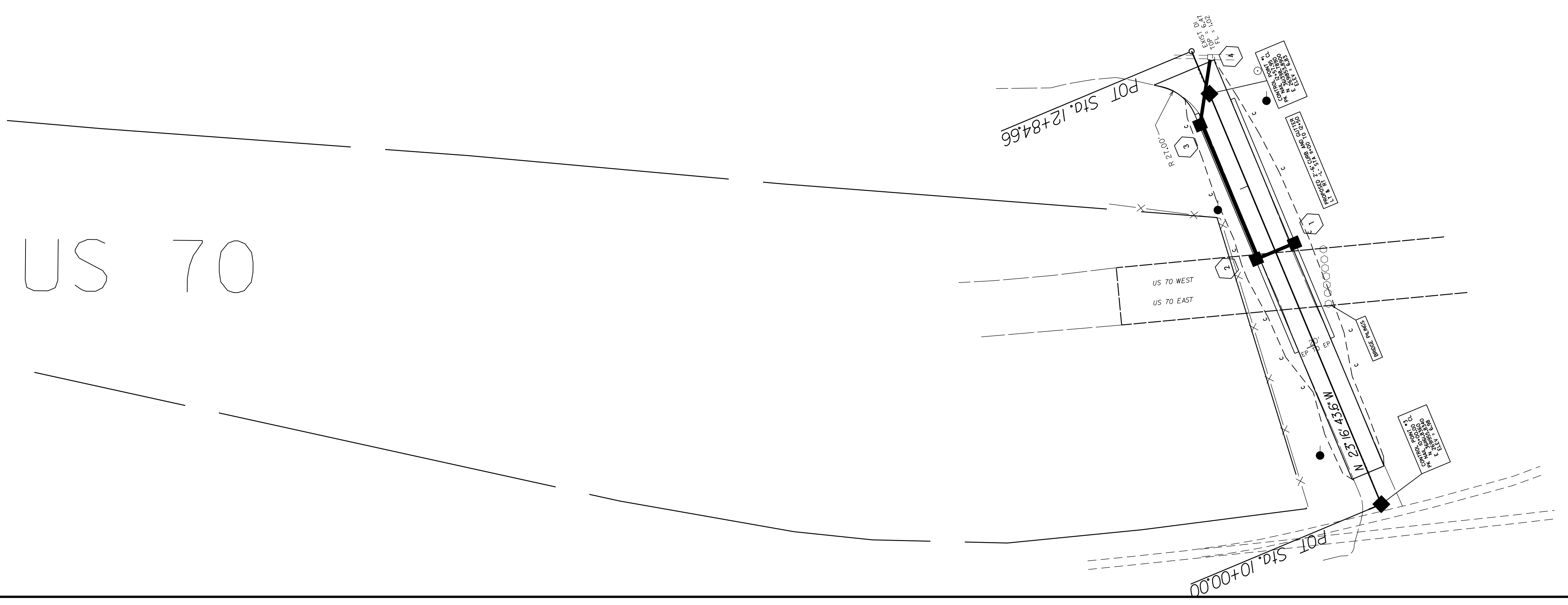
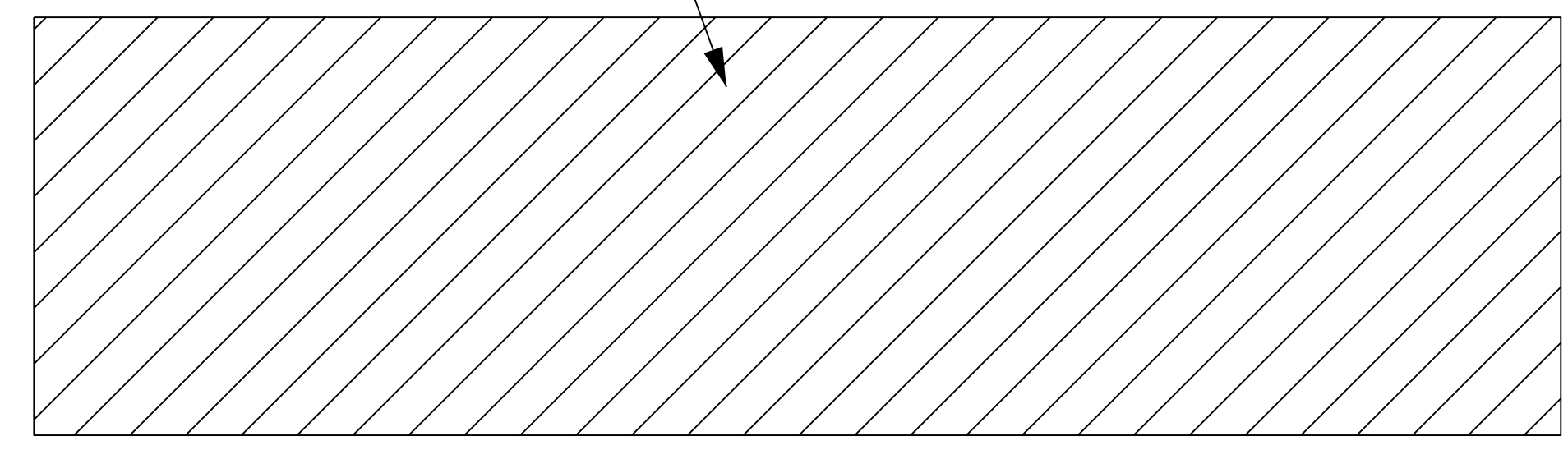
REVISIONS

8/17/99

24 SEP 2014 09:05:05 F:\PROJECT\NCPA\NCPA\_PSH5.dgn



ALLOWABLE WASTE SITE FOR SOIL AND AGGREGATE MATERIAL FROM PROJECT.  
 (COORDINATE WITH TIM WILSON - MAINTENANCE OPERATIONS SUPERVISOR WITH NC PORTS - 252-808-4233)



US 70

REVISIONS

8/17/99

24 SEP 2014 09:05  
 \\FRET\NCPA\ncpa\_psh6.dgn  
 9:58:51 AM

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

## CROSS-SECTION SUMMARY

IN CUBIC YARDS

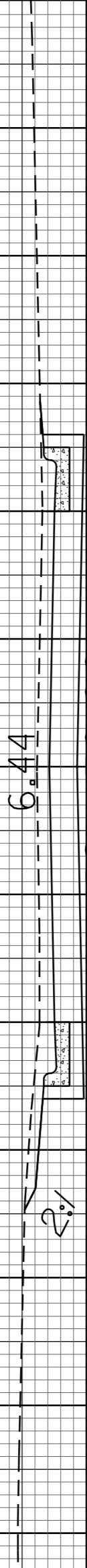
LOCATION (-M1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
1+13.82	0		0
1+25.00	14		0
1+50.00	30		0
1+75.00	31		0
1+80.11	6		0
2+00.00	24		0
2+25.00	30		0
2+50.00	29		0
2+75.00	27		0
3+00.00	26		0
3+25.00	25		0
3+26.42	1		0
3+50.00	24		0
3+75.00	29		0
4+00.00	31		0
4+25.00	30		0
4+50.00	29		0
4+56.37	7		0
4+75.00	20		0
5+00.00	28		0
5+25.00	33		0
5+50.00	37		0
5+75.00	32		0
6+00.00	27		0
6+05.97	6		0
6+25.00	24		0
6+50.00	37		0
6+05.97	39		0
6+25.00	36		0
6+50.00	23		0

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
10+19.84	0		0
10+25.00	4		0
10+50.00	19		0
10+75.00	24		0
11+00.00	40		0
11+25.00	57		0
11+50.00	69		0
11+58.99	28		0
11+75.00	52		0
12+00.00	82		0
12+25.00	69		0
12+50.00	49		0
12+75.00	39		0

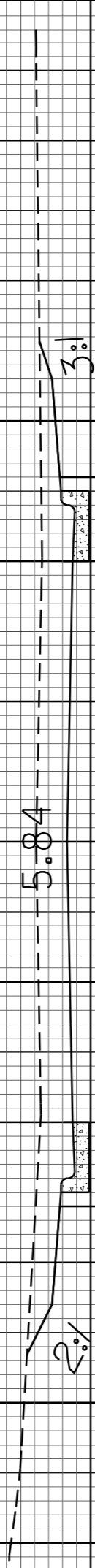
NOTE:  
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,  
BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING  
AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE  
CONTRACT LUMP SUM PRICE FOR "GRADING."

TIE TO EXISTING

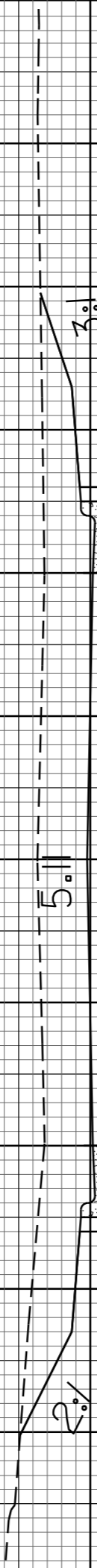
12 + 75.00



12 + 50.00



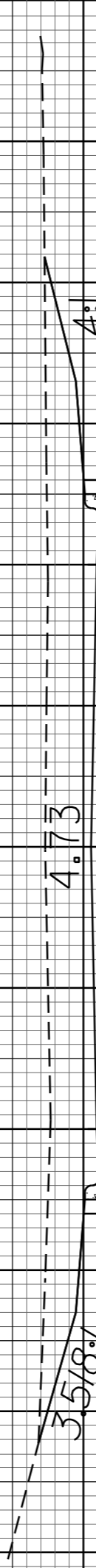
12 + 25.00



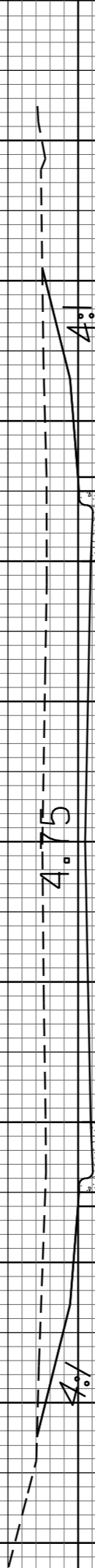
12 + 00.00



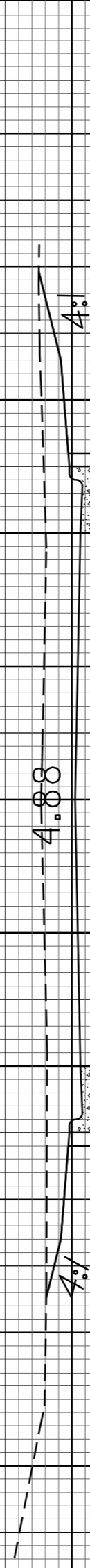
11 + 75.00



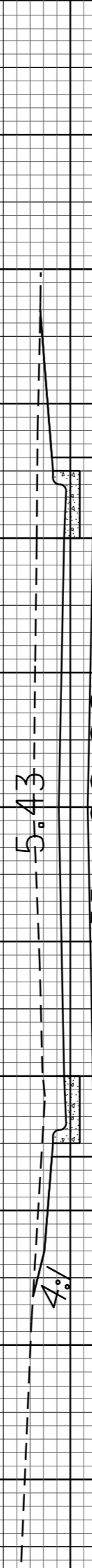
11 + 58.99



11 + 50.00



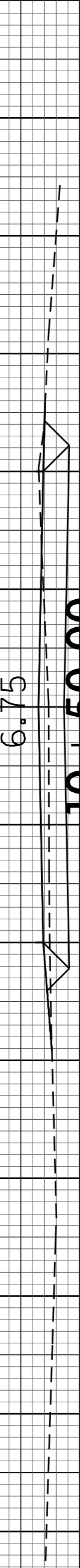
11 + 25.00



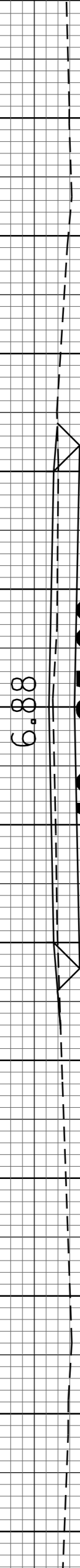
11 + 00.00



10 + 75.00



10 + 50.00

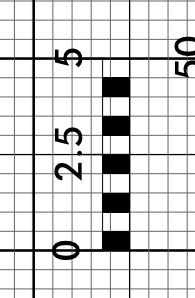


10 + 25.00

TIE TO EXISTING

10 + 19.84

PROJ. REFERENCE NO.	SHEET NO.
49500	X-1



40 30 20 10 0 10 20 30 40 50







