

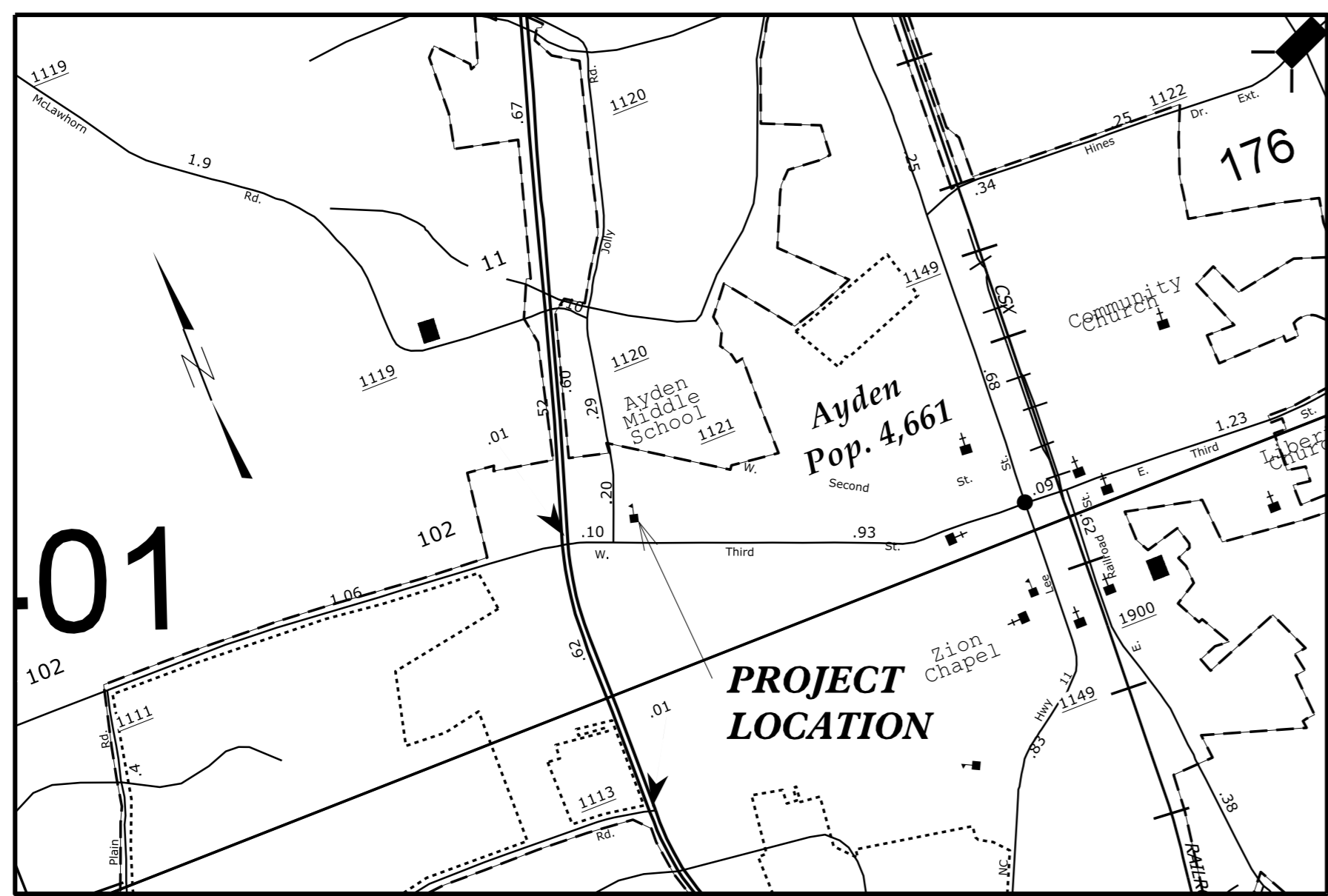
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49028	1	19
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

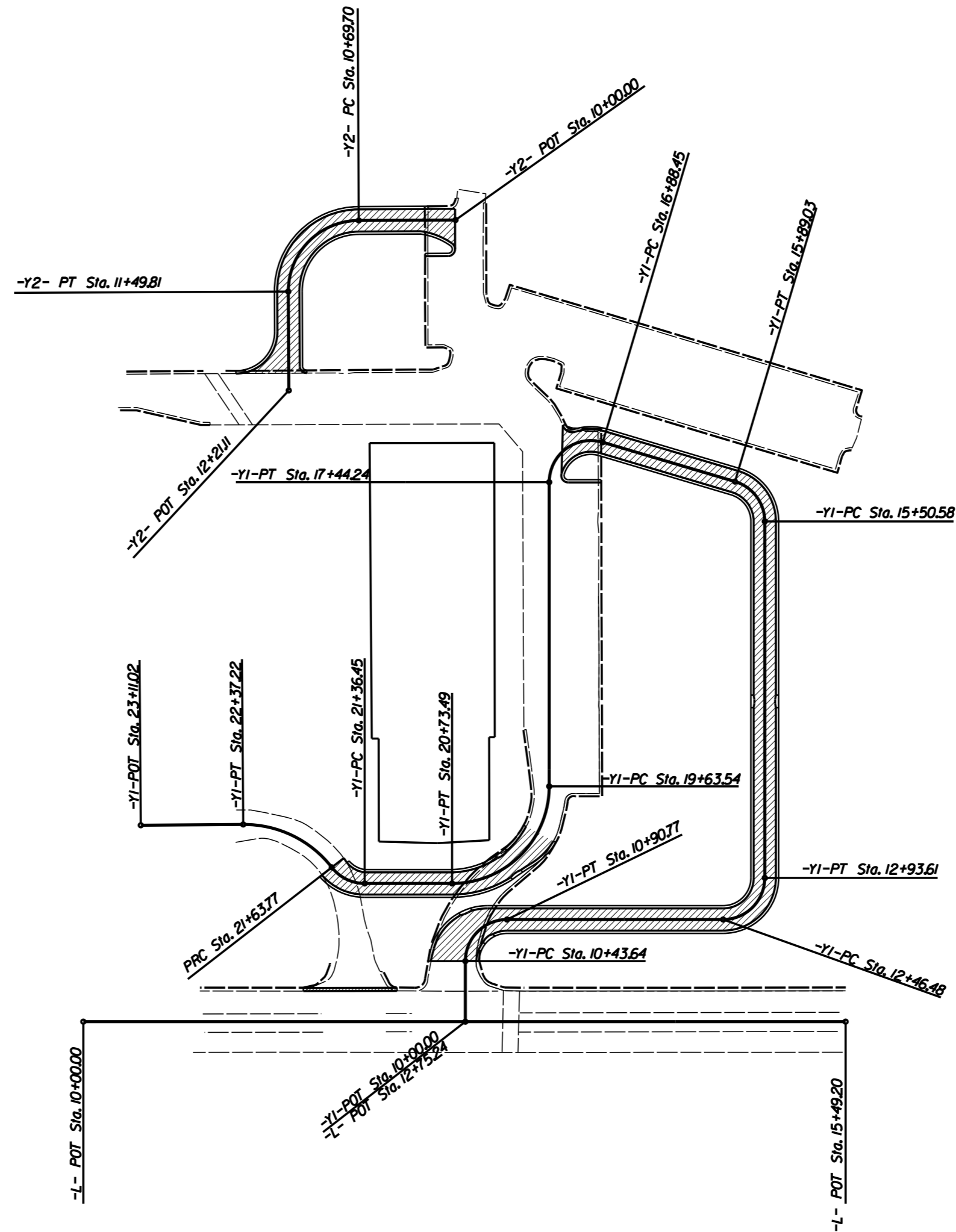
PITT COUNTY

LOCATION: AYDEN ELEMENTARY SCHOOL

TYPE OF WORK: GRADE, DRAIN, BASE AND PAVE
ON NEW LOCATION



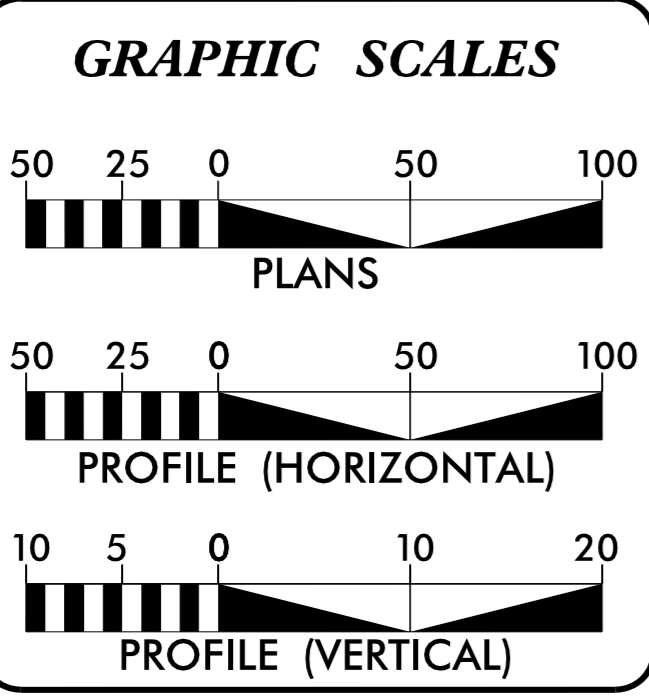
See Sheet 1A For Index of Sheets



PROJECT: 49028

PROJECT: DB00421

CONTRACT: DB00421



PROJECT LENGTH

LENGTH FOR PROJECT 49028 = 0.200 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
1037 WH SMITH BLVD., GREENVILLE, NC 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 2018

LETTING DATE: MAY 2018

WILLIAM C KINCANNON, PE
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

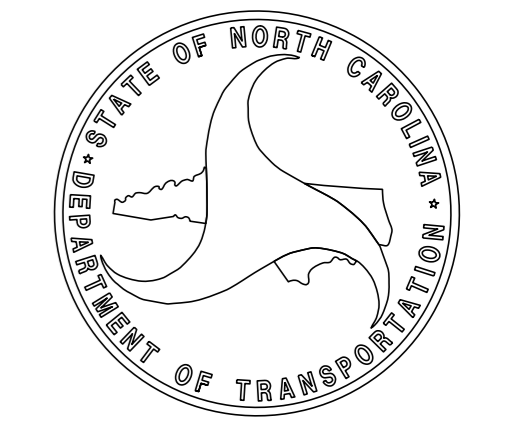
HYDRAULICS ENGINEER

DocuSigned by:
William C. Kincannon
4/11/2018

ROADWAY DESIGN ENGINEER

DocuSigned by:
William C. Kincannon
4/11/2018

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C	CHAIN DESCRIPTIONS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4-5	PLANSHEET
RW1	RIGHT OF WAY PLAN
EC1-EC3	EROSION CONTROL PLANS
PMP1	PAVEMENT MARKING PLAN
X1A	CROSS SECTION SUMMARY
X1-X4	CROSS SECTION SHEET

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

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

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.

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:

OWNERS:
PITT COUNTY SCHOOLS
TOWN OF AYDEN

2018 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 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
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
840.03	FRAMES, GRATES AND HOOD- FOR USE ON STANDARD CATCH BASIN
840.71	CONCRETE AND BRICK PIPE PLUG
846.01	CONCRETE CURB
848.02	DRIVEWAY TURNOUT-RADIUS TYPE
848.06	CURB RAMP-EXISTING CURB & GUTTER
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	LINE TYPES OFFSETS
1205.08	SYMBOLS AND WORD MESSAGES
1266.01	TUBULAR MARKERS
DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE
1632.03	ROCK INLET SEDIMENT TRAP, TYPE C
1635.01	ROCK PIPE INLET SEDIMENT TRAP, TYPE A

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	○ _{EP}
Computed Property Corner	----->
Property Monument	□ _{EDM}
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}
Existing Historic Property Boundary	----- _{HPB}
Known Contamination Area: Soil	---S---S---
Potential Contamination Area: Soil	---S---S---
Known Contamination Area: Water	---W---W---
Potential Contamination Area: Water	---W---W---
Contaminated Site: Known or Potential	☠ ?

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	○ _{MILEPOST 35}
Switch	□ _{SWITCH}
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	▲
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

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	☼

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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	●
U/G Power Line LOS B (S.U.E.*)	----- _P
U/G Power Line LOS C (S.U.E.*)	----- _P
U/G Power Line LOS D (S.U.E.*)	----- _P

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.*)	----- _T
U/G Telephone Cable LOS C (S.U.E.*)	----- _T
U/G Telephone Cable LOS D (S.U.E.*)	----- _T
U/G Telephone Conduit LOS B (S.U.E.*)	----- _{TC}
U/G Telephone Conduit LOS C (S.U.E.*)	----- _{TC}
U/G Telephone Conduit LOS D (S.U.E.*)	----- _{TC}
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- _{T FO}
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- _{T FO}
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- _{T FO}

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- _W
U/G Water Line LOS C (S.U.E.*)	----- _W
U/G Water Line LOS D (S.U.E.*)	----- _W
Above Ground Water Line	----- _{A/G Water}

TV:

TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	----- _{TV}
U/G TV Cable LOS C (S.U.E.*)	----- _{TV}
U/G TV Cable LOS D (S.U.E.*)	----- _{TV}
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- _{TV FO}
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- _{TV FO}
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- _{TV FO}

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	----- _G
U/G Gas Line LOS C (S.U.E.*)	----- _G
U/G Gas Line LOS D (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}
SS Forced Main Line LOS B (S.U.E.*)	----- _{FSS}
SS Forced Main Line LOS C (S.U.E.*)	----- _{FSS}
SS Forced Main Line LOS D (S.U.E.*)	----- _{FSS}

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/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 LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

CHAIN DESCRIPTIONS

-Y1- DESCRIPTION

Point 3000 N 631,265.0293 E 2,467,004.3215 Sta 10+00.00
 Course from 3000 to PC Y1C1 N 21° 26' 27.51" E Dist 43.6431

Back = N 21° 26' 25.63" E
 Ahead = N 52° 00' 18.42" W
 Chord Bear = N 15° 16' 56.40" W

Ahead = N 16° 23' 36.43" W
 Chord Bear = N 42° 28' 35.40" W

Curve Data
 x-----x

Curve Y1C1
 P.I. Station 10+73.64 N 631,333.5757 E 2,467,031.2411
 Delta = 89° 59' 58.12" (RT)
 Degree = 190° 59' 09.35"
 Tangent = 29.9997
 Length = 47.1236
 Radius = 30.0000
 External = 12.4262
 Long Chord = 42.4262
 Mid.Ord. = 8.7867

Course from PT Y1C3 to PC Y1C4 N 52° 00' 18.42" W Dist 99.4147

Curve Data
 x-----x

Curve Y1C4
 P.I. Station 17+28.66 N 631,642.3970 E 2,467,217.4337
 Delta = 106° 33' 15.95" (LT)
 Degree = 190° 59' 09.35"
 Tangent = 40.2147
 Length = 55.7918
 Radius = 30.0000
 External = 20.1719
 Long Chord = 48.0923
 Mid.Ord. = 12.0617

Curve Data
 x-----x

Curve Y1C7
 P.I. Station 22+03.31 N 631,441.6844 E 2,466,944.2521
 Delta = 52° 36' 20.76" (LT)
 Degree = 71° 37' 11.01"
 Tangent = 39.5435
 Length = 73.4515
 Radius = 80.0000
 External = 9.2395
 Long Chord = 70.8986
 Mid.Ord. = 8.2829

P.C. Station 10+43.64 N 631,305.6521 E 2,467,020.2749
 P.T. Station 10+90.77 N 631,322.6098 E 2,467,059.1648
 C.C. N 631,294.6858 E 2,467,048.1987
 Back = N 21° 26' 27.51" E
 Ahead = S 68° 33' 34.37" E
 Chord Bear = N 66° 26' 26.57" E

P.C. Station 16+88.451 N 631,617.6411 E 2,467,249.1256
 P.T. Station 17+44.24 N 631,604.9652 E 2,467,202.7339
 C.C. N 631,593.9992 E 2,467,230.6578
 Back = N 52° 00' 18.42" W
 Ahead = S 21° 26' 25.63" W
 Chord Bear = S 74° 43' 03.60" W

P.C. Station 21+63.77 N 631,403.7485 E 2,466,955.4125
 P.T. Station 22+37.22 N 631,455.8560 E 2,466,907.3353
 C.C. N 631,381.1699 E 2,466,878.6648
 Back = N 16° 23' 36.43" W
 Ahead = N 68° 59' 57.19" W
 Chord Bear = N 42° 41' 46.81" W

Course from PT Y1C1 to PC Y1C2 S 68° 33' 34.37" E Dist 155.7173

Course from PT Y1C4 to PC Y1C5 S 21° 26' 25.63" W Dist 219.2953

Course from PT Y1C7 to 3006 N 68° 59' 57.19" W Dist 73.8010

Point 3006 N 631,482.3048 E 2,466,838.4364 Sta 23+11.02

Curve Data
 x-----x

Curve Y1C2
 P.I. Station 12+76.48 N 631,254.7238 E 2,467,232.0300
 Delta = 90° 00' 00.00" (LT)
 Degree = 190° 59' 09.35"
 Tangent = 30.0000
 Length = 47.1239
 Radius = 30.0000
 External = 12.4264
 Long Chord = 42.4264
 Mid.Ord. = 8.7868
 P.C. Station 12+46.48 N 631,265.6898 E 2,467,204.1061
 P.T. Station 12+93.61 N 631,282.6477 E 2,467,242.9960
 C.C. N 631,293.6138 E 2,467,215.0721
 Back = S 68° 33' 34.37" E
 Ahead = N 21° 26' 25.63" E
 Chord Bear = N 66° 26' 25.63" E

Curve Data
 x-----x

Curve Y1C5
 P.I. Station 20+33.54 N 631,335.6898 E 2,467,096.9866
 Delta = 90° 00' 00.00" (RT)
 Degree = 81° 51' 04.01"
 Tangent = 70.0000
 Length = 109.9557
 Radius = 70.0000
 External = 28.9949
 Long Chord = 98.9949
 Mid.Ord. = 20.5025
 P.C. Station 19+63.54 N 631,400.8456 E 2,467,122.5740
 P.T. Station 20+73.49 N 631,361.2771 E 2,467,031.8308
 C.C. N 631,426.4330 E 2,467,057.4182
 Back = S 21° 26' 25.63" W
 Ahead = N 68° 33' 34.37" W
 Chord Bear = S 66° 26' 25.63" W

-Y2- DESCRIPTION

Point 2000 N 631,805.5550 E 2,467,208.9709 Sta 10+00.00
 Course from 2000 to PC Y2C1 N 68° 49' 57.67" W Dist 69.7008

Course from PT Y1C2 to PC Y1C3 N 21° 26' 25.63" E Dist 256.9694

Course from PT Y1C5 to PC Y1C6 N 68° 33' 34.37" W Dist 62.9609

Curve Data
 x-----x

Curve Y2C1
 P.I. Station 11+20.70 N 631,849.1392 E 2,467,096.4138
 Delta = 90° 00' 00.00" (LT)
 Degree = 112° 20' 40.80"
 Tangent = 51.0000
 Length = 80.1106
 Radius = 51.0000
 External = 21.1249
 Long Chord = 72.1249
 Mid.Ord. = 14.9376
 P.C. Station 10+69.70 N 631,830.7234 E 2,467,143.9729
 P.T. Station 11+49.81 N 631,801.5801 E 2,467,077.9981
 C.C. N 631,783.1644 E 2,467,125.5571
 Back = N 68° 49' 57.67" W
 Ahead = S 21° 10' 02.33" W
 Chord Bear = S 66° 10' 02.33" W

Curve Data
 x-----x

Curve Y1C3
 P.I. Station 15+72.96 N 631,542.6655 E 2,467,345.1077
 Delta = 73° 26' 44.05" (LT)
 Degree = 190° 59' 09.35"
 Tangent = 22.3799
 Length = 38.4560
 Radius = 30.0000
 External = 7.4280
 Long Chord = 35.8766
 Mid.Ord. = 5.9539
 P.C. Station 15+50.58 N 631,521.8344 E 2,467,336.9271
 P.T. Station 15+89.03 N 631,556.4423 E 2,467,327.4709
 C.C. N 631,532.8004 E 2,467,309.0031

Curve Data
 x-----x

Curve Y1C6
 P.I. Station 21+51.14 N 631,389.6597 E 2,466,959.5573
 Delta = 52° 09' 57.95" (RT)
 Degree = 190° 59' 09.35"
 Tangent = 14.6858
 Length = 27.3141
 Radius = 30.0000
 External = 3.4017
 Long Chord = 26.3804
 Mid.Ord. = 3.0553
 P.C. Station 21+36.45 N 631,384.2915 E 2,466,973.2269
 P.T. Station 21+63.77 N 631,403.7485 E 2,466,955.4125
 C.C. N 631,412.2154 E 2,466,984.1929
 Back = N 68° 33' 34.37" W

Course from PT Y2C1 to 2002 S 21° 10' 02.33" W Dist 71.2979

Point 2002 N 631,735.0927 E 2,467,052.2530 Sta 12+21.11

-L- DESCRIPTION

Point 1000 N 631,365.6408 E 2,466,748.1308 Sta 10+00.00
 Course from 1000 to 1001 S 68° 33' 32.49" E Dist 549.1959
 Point 1001 N 631,164.8863 E 2,467,259.3193 Sta 15+49.20

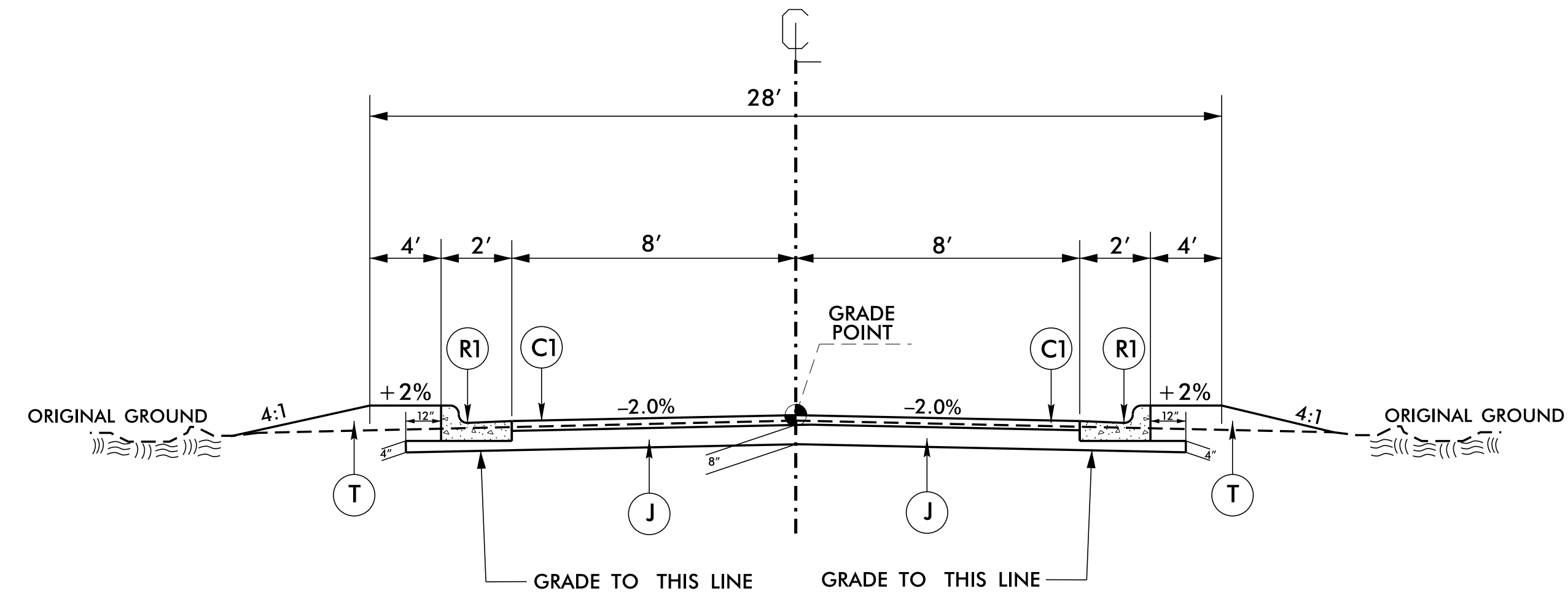
REVISIONS

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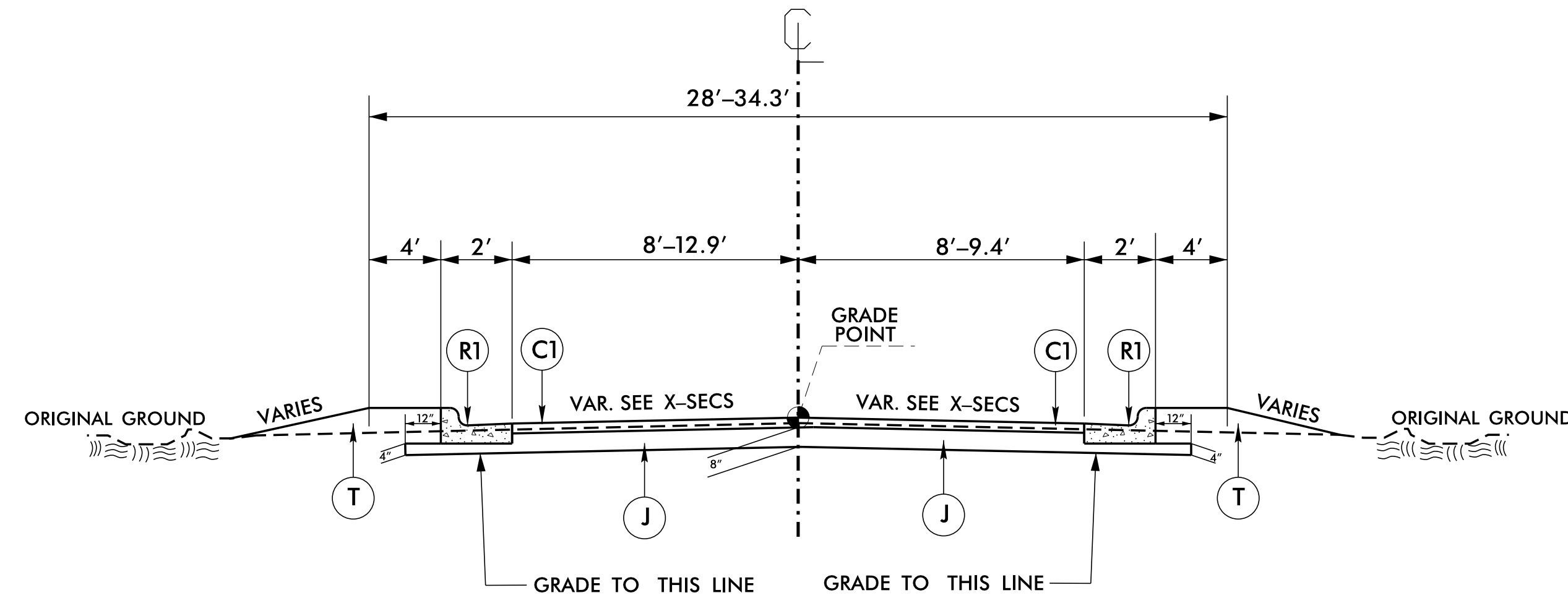
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD. IN TWO LAYERS
J	PROP. 8" AGGREGATE BASE COURSE
R1	PROP. 2'-0" CONCRETE CURB AND GUTTER
R2	PROP. 2'-6" CONCRETE CURB AND GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING

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



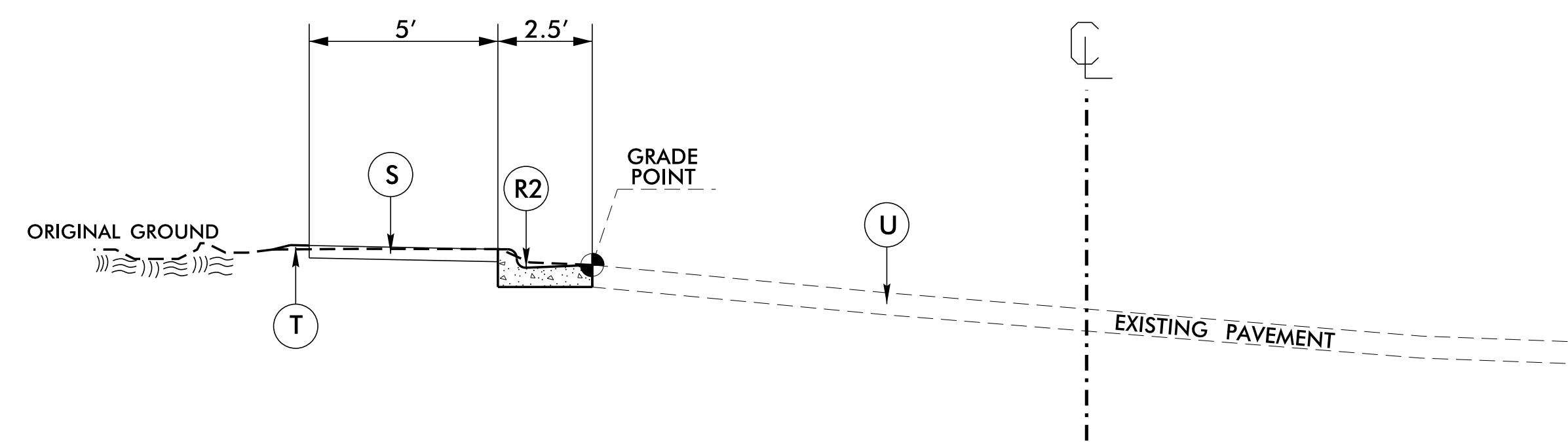
USE TYPICAL SECTION #1

-Y1- 11+00.00 - 16+91.91
-Y2- 10+19.85 - 12+08.69



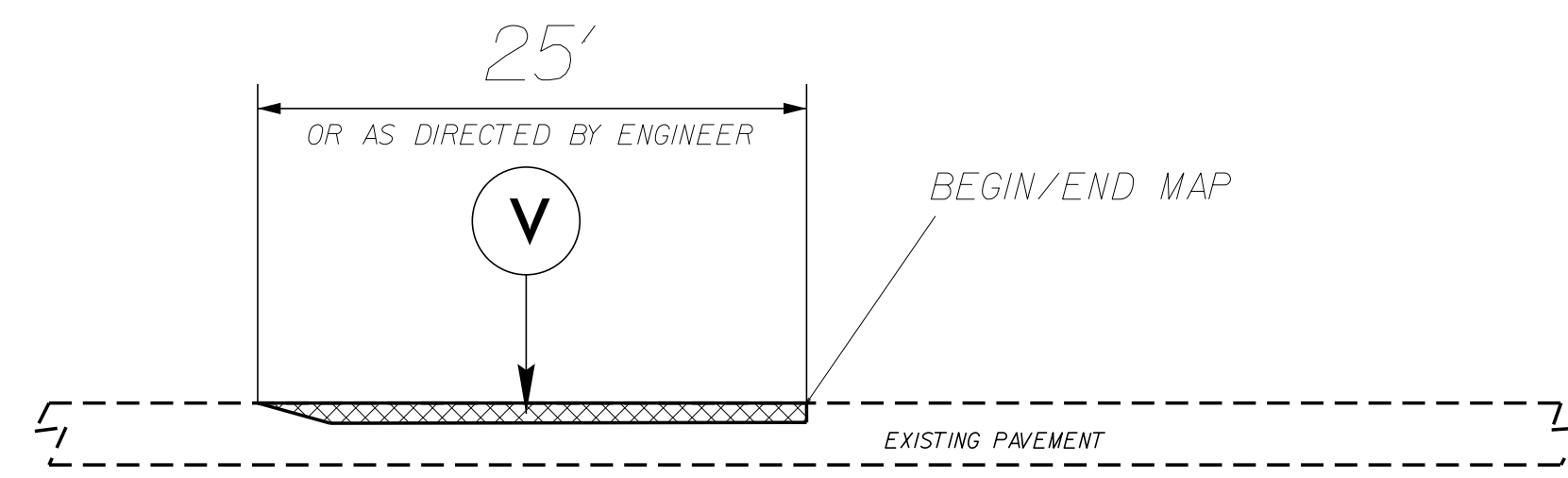
USE TYPICAL SECTION #2

-Y1- 19+98.28 - 21+63.77



USE TYPICAL SECTION #3

-L- 11+58.48 - 12+26.01



MILLING DETAIL 1
BEGIN/END MAP TIE INS

NOTE:
MILLING SHALL BE PERFORMED AT MAIN LINE TIE INS AND Y-LINE TIE INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL

REVISIONS

8/17/99

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

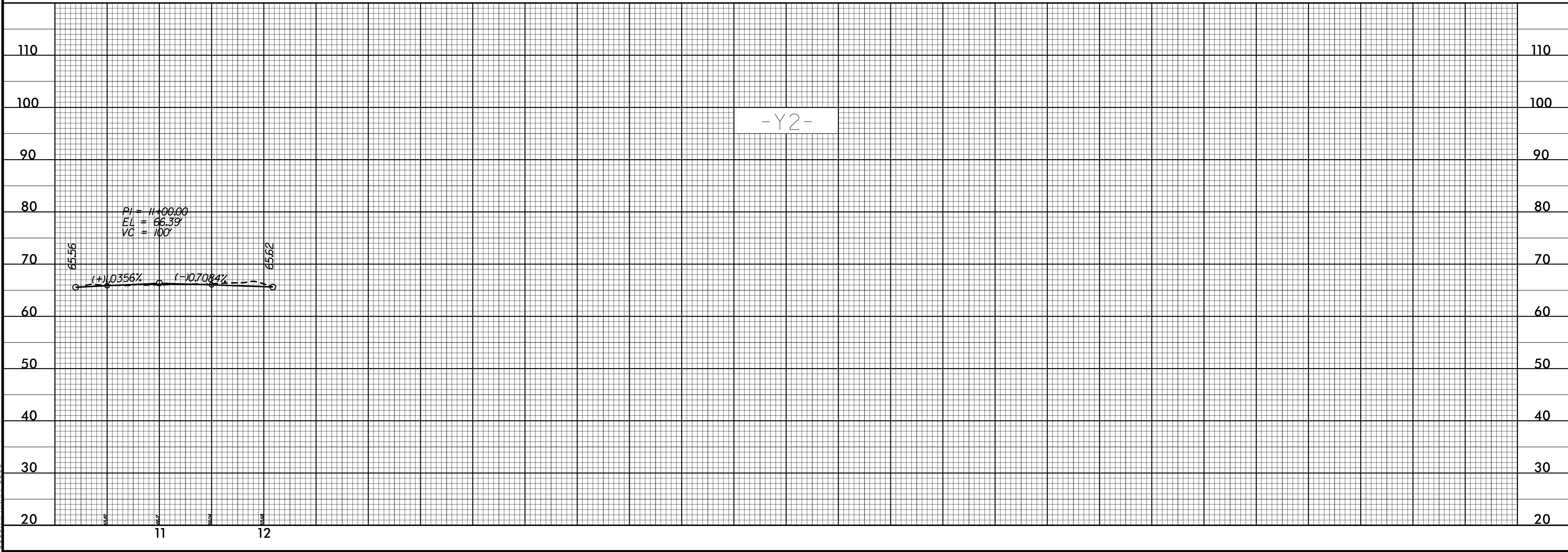
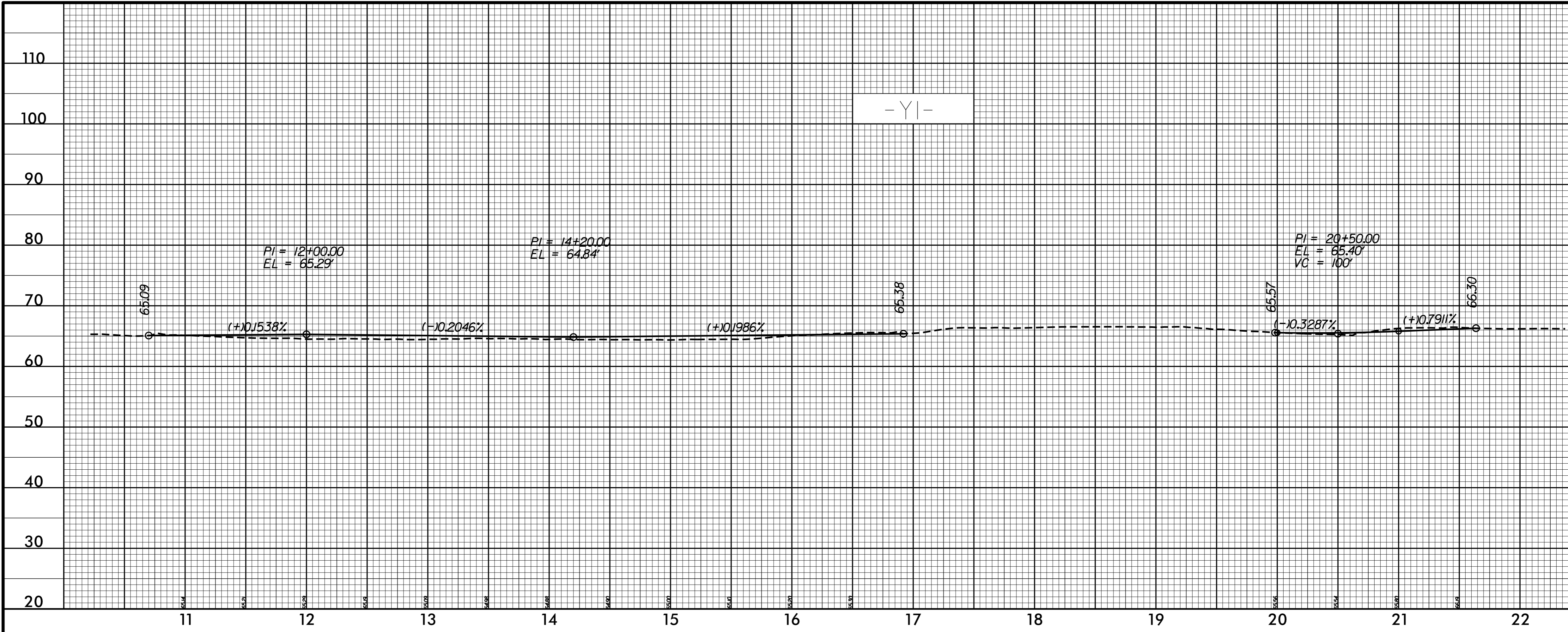
SECT	QUANTITY	UNIT	ITEM DESCRIPTION	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION	846	71	LF	2'-6" CONCRETE CURB & GUTTER
801	1	LS	CONSTRUCTION SURVEYING	846	41	LF	CONCRETE VALLEY GUTTER
226	1	LS	GRADING	846	65	SY	4" CONCRETE SIDEWALK
270	740	SY	GEOTEXTILE FOR SOIL STABILIZATION (CONTINGENCY)	848	3	EA	CONCRETE CURB RAMP
300	40	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	SP	48	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
300	100	SY	FOUNDATION CONDITIONING GEOTEXTILE	SP	1	LS	TEMPORARY TRAFFIC CONTROL
310	16	LF	12" RC PIPE CULVERTS, CLASS III	1205	440	LF	PAINT PAVEMENT MARKING LINES (4")
310	165	LF	15" RC PIPE CULVERTS, CLASS III	1205	12	EA	PAINT PAVEMENT MARKING SYMBOL
310	118	LF	15" RC PIPE CULVERTS, CLASS IV	1266	12	EA	TUBULAR MARKERS (FIXED)
340	124	LF	PIPE REMOVAL	SP	1	EA	CONCRETE WASHOUT STRUCTURE
505	250	CY	SHALLOW UNDERCUT; 12" DEPTH (CONTINGENCY)	1605	1,340	LF	TEMPORARY SILT FENCE
505	350	TON	CLASS IV SUBGRADE STABILIZATION (CONTINGENCY)	1610	1	TON	SEDIMENT CONTROL STONE
520	1095	TON	AGGREGATE BASE COURSE	1610	1	TON	STONE FOR EROSION CONTROL, CLASS B
607	255	SY	INCIDENTAL MILLING	1630	5	CY	SILT EXCAVATION
610	340	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	1631	70	SY	MATTING FOR EROSION CONTROL
620	25	TON	ASPHALT BINDER PLANT MIX	1632	130	LF	1/4" HARDWARE CLOTH
840	9	EA	MASONARY DRAINAGE STRUCTURES	1660	1	AC	SEEDING AND MULCHING
840	6	EA	FRAME WITH GRATE, STD 840.03	SP	4	EA	RESPONSE FOR EROSION CONTROL
840	3	EA	FRAME WITH GRATE, STD 840.16	SP	100	LF	COIR FIBER WATTLES
840	1	CY	PIPE PLUGS				
846	2,159	LF	2'-0" CONCRETE CURB & GUTTER				

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PROJECT REFERENCE NO. 49028	SHEET NO. 5
ROADWAY DESIGN ENGINEER MUSKIE, ENGR 33793 WILLIAM C. KINCANNON 4/11/2018	HYDRAULICS ENGINEER MUSKIE, ENGR 33793 WILLIAM C. KINCANNON 4/11/2018

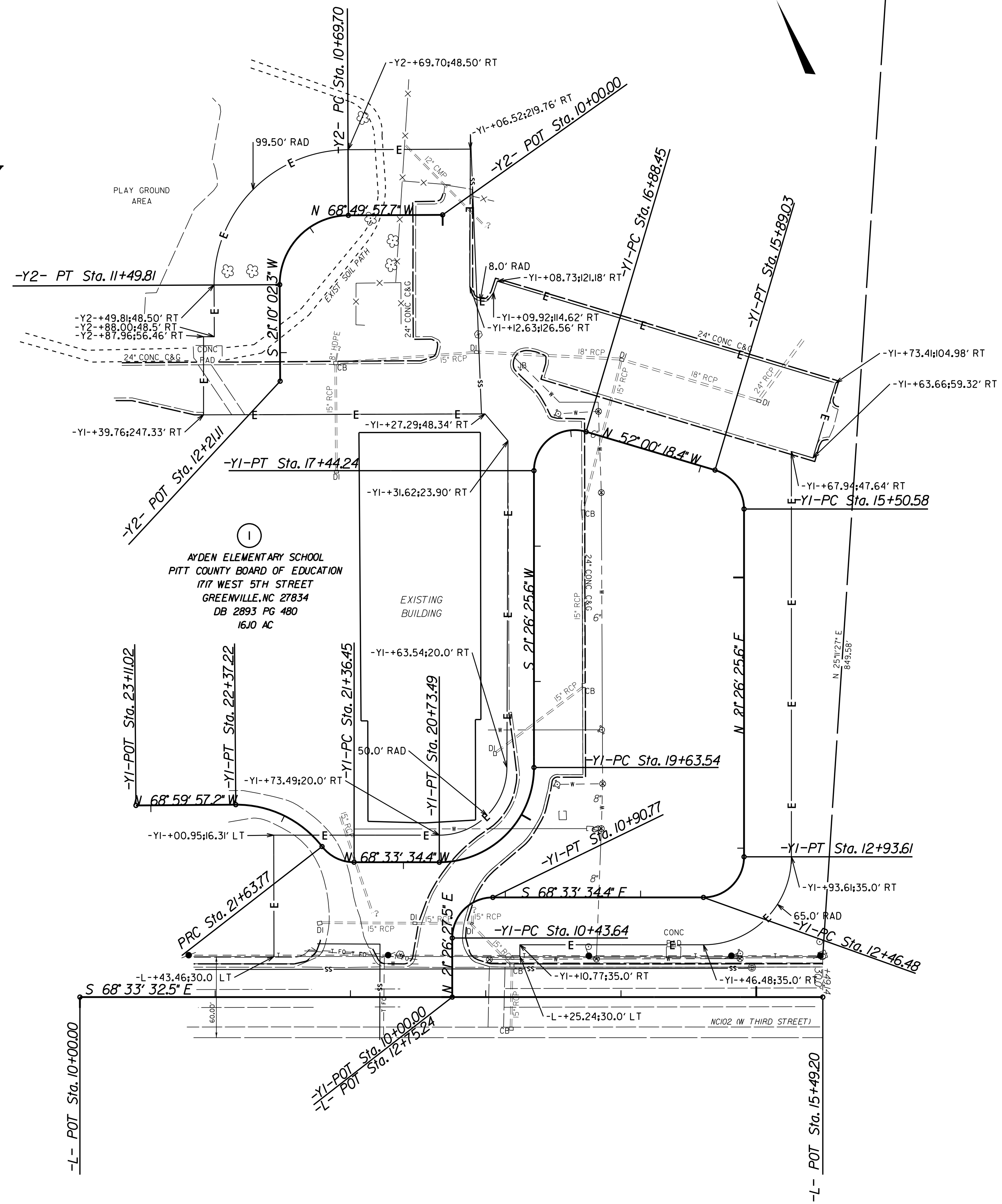
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TEMPORARY CONSTRUCTION EASEMENT AREA SUMMARY

PARCEL NO.	PROPERTY OWNER NAME	LOCATION	TOTAL PARCEL AREA [ACRES]	AREA TO BE (TCE) [ACRES]	PARCEL AREA REMAINING [ACRES]
1	PITT COUNTY BOARD OF EDU.	-Y1--Y2--L-	16.10	3.45	12.65

STATION/OFFSET	LOCATION	NORTH	EAST	DESCRIPTION
-L-11 + 43.46; 30.0'	LT	N 631341.1230	E 2466892.6312	(TCE) TIE POINT
-Y1-21 + 00.95; 16.31'	LT	N 631424.6294	E 2466925.2246	(TCE) CORNER
-Y1-20 + 73.49; 20.0'	RT	N 631379.8931	E 2467039.1415	(TCE) PC POINT
-Y1-19 + 63.54; 20.0'	RT	N 631408.1563	E 2467103.9581	(TCE) PT POINT
-Y1-17 + 31.62; 23.91'	RT	N 631632.4800	E 2467192.9060	(TCE) CORNER
-Y1-17 + 27.29; 48.34'	RT	N 631657.2250	E 2467184.3950	(TCE) CORNER
-Y1-17 + 39.76; 247.34'	RT	N 631732.6530	E 2466990.4700	(TCE) CORNER
-Y2-11 + 87.96; 56.46'	RT	N 631786.3919	E 2467011.5744	(TCE) CORNER
-Y2-11 + 88.00; 48.50'	RT	N 631783.4830	E 2467018.9815	(TCE) CORNER
-Y2-11 + 49.81; 48.50'	RT	N 631819.0931	E 2467032.7704	(TCE) PC POINT
-Y2-10 + 69.70; 48.50'	RT	N 631875.9511	E 2467161.4859	(TCE) PT POINT
-Y1-17 + 06.52; 219.76'	RT	N 631843.2961	E 2467245.8183	(TCE) CORNER
-Y1-17 + 12.63; 126.56'	RT	N 631748.9680	E 2467208.3660	(TCE) PC POINT
-Y1-17 + 09.92; 114.62'	RT	N 631738.4200	E 2467223.0780	(TCE) PT POINT
-Y1-17 + 08.73; 121.19'	RT	N 631745.1730	E 2467228.7050	(TCE) CORNER
-Y1-15 + 73.41; 104.98'	RT	N 631583.7120	E 2467434.0160	(TCE) CORNER
-Y1-15 + 63.66; 59.32'	RT	N 631538.3310	E 2467398.1510	(TCE) CORNER
-Y1-15 + 67.94; 47.64'	RT	N 631574.2509	E 2467352.1399	(TCE) CORNER
-Y1-12 + 93.61; 35.00'	RT	N 631284.4754	E 2467238.3420	(TCE) PC POINT
-Y1-12 + 46.48; 35.00'	RT	N 631247.7333	E 2467154.0804	(TCE) PT POINT
-Y1-11 + 10.77; 35.00'	RT	N 631282.7212	E 2467064.9870	(TCE) CORNER
-L-13 + 25.24; 30.00'	LT	N 631274.6760	E 2467061.8275	(TCE) TIE POINT

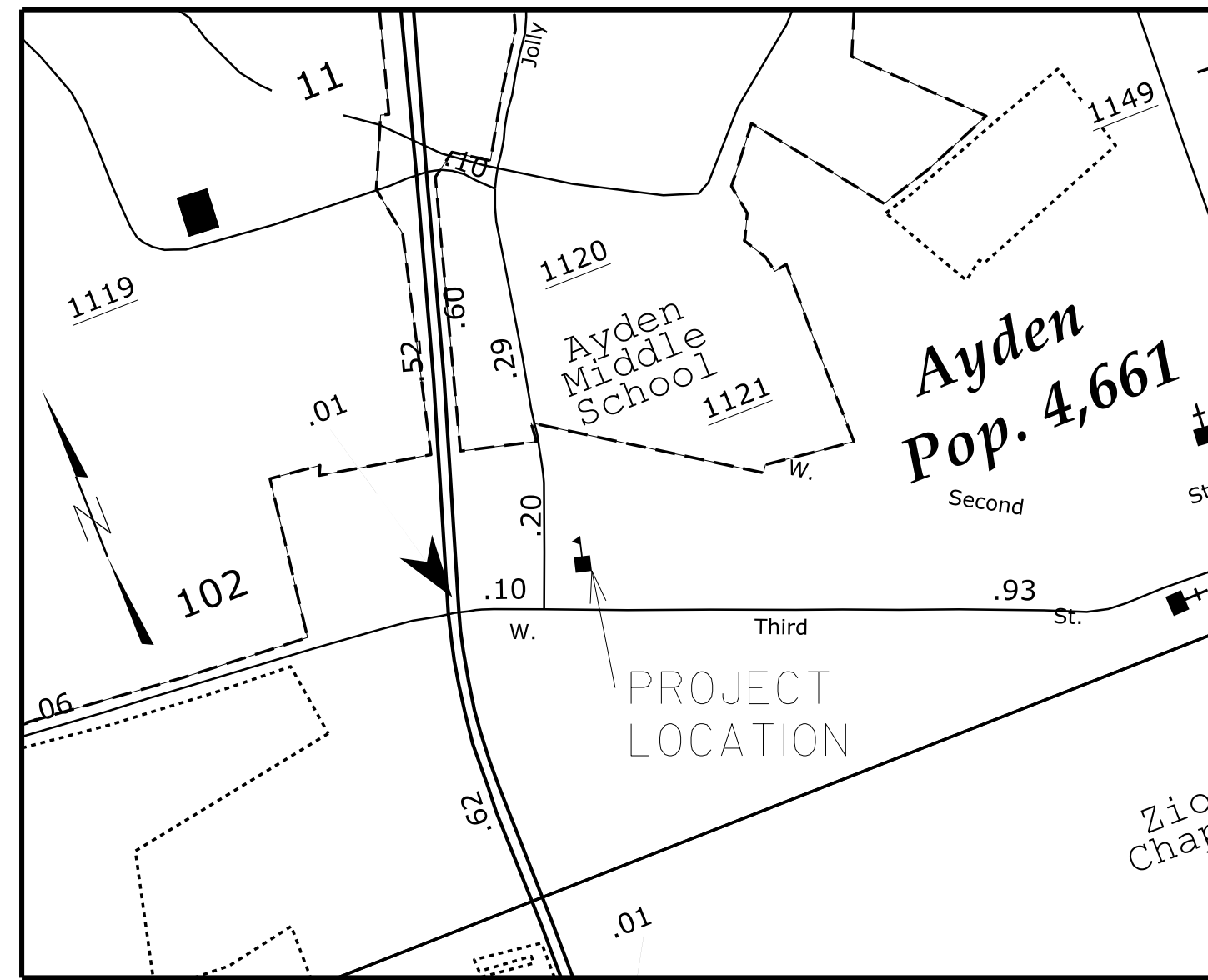


REVISIONS

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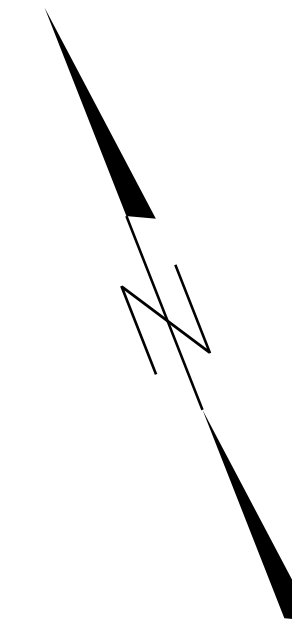
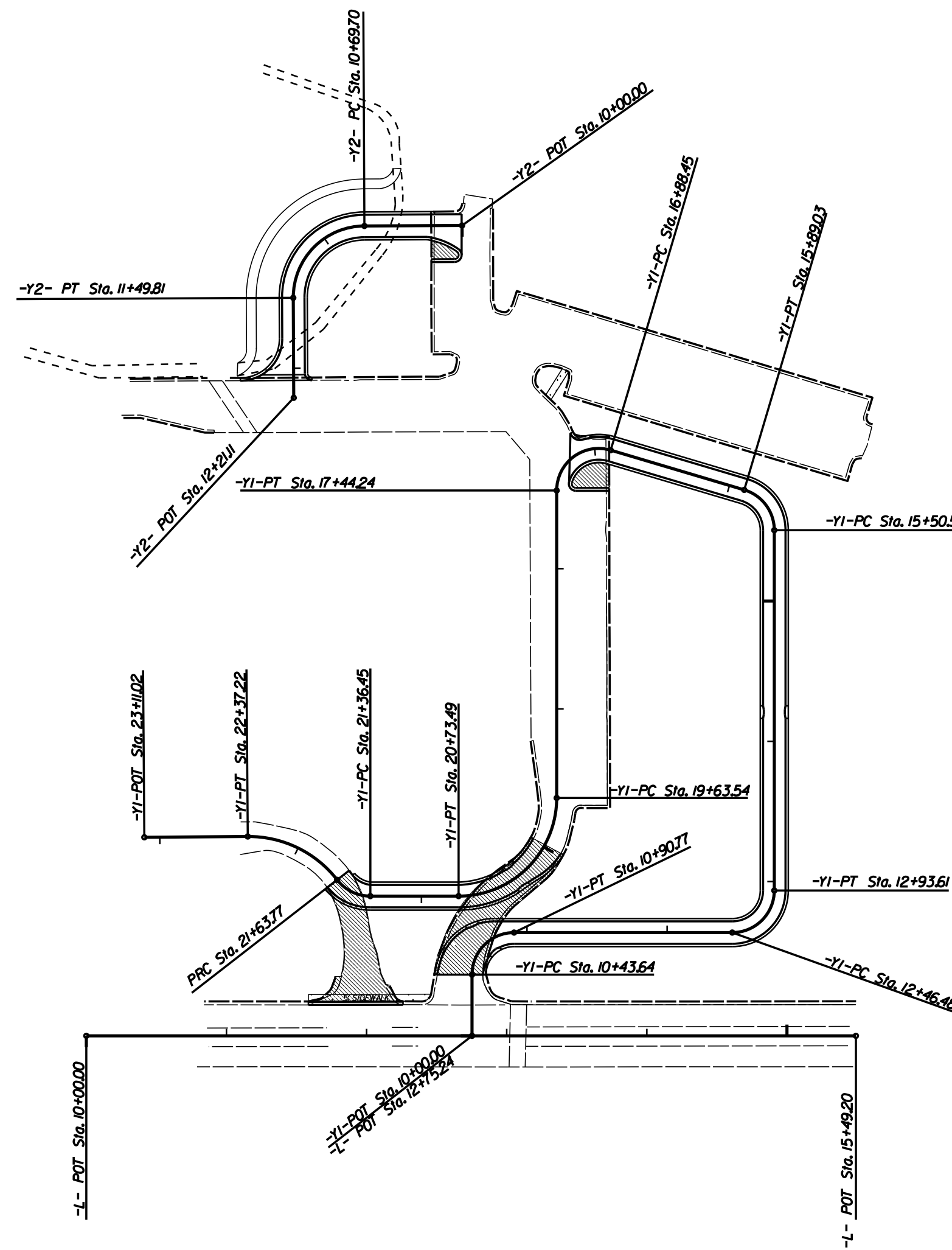
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PROJECT: 49028



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

LOCATION: AYDEN ELEMENTARY SCHOOL



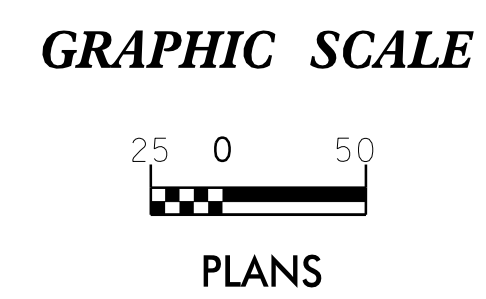
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49028	EC-1	3
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Sta. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WCFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WCFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDA-B
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRA-B
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SB
	Tiered Skimmer Basin	TSB
	Infiltration Basin	IB

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.



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 1, 2016 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

2018 STANDARD SPECIFICATIONS

Prepared in the Office of:
DIVISION OF HIGHWAYS
1037 WH SMITH BLVD
GREENVILLE, NC 27835

Rich Godley
Level III
Certification #3559

Roadway Standard Drawings

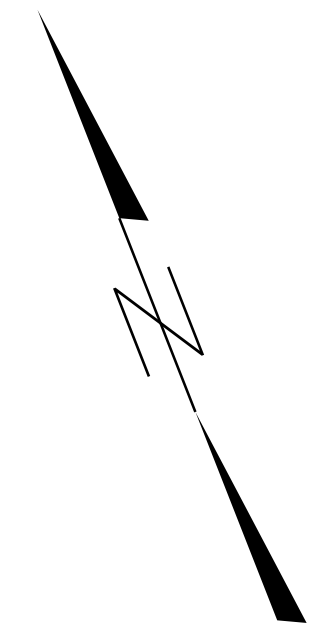
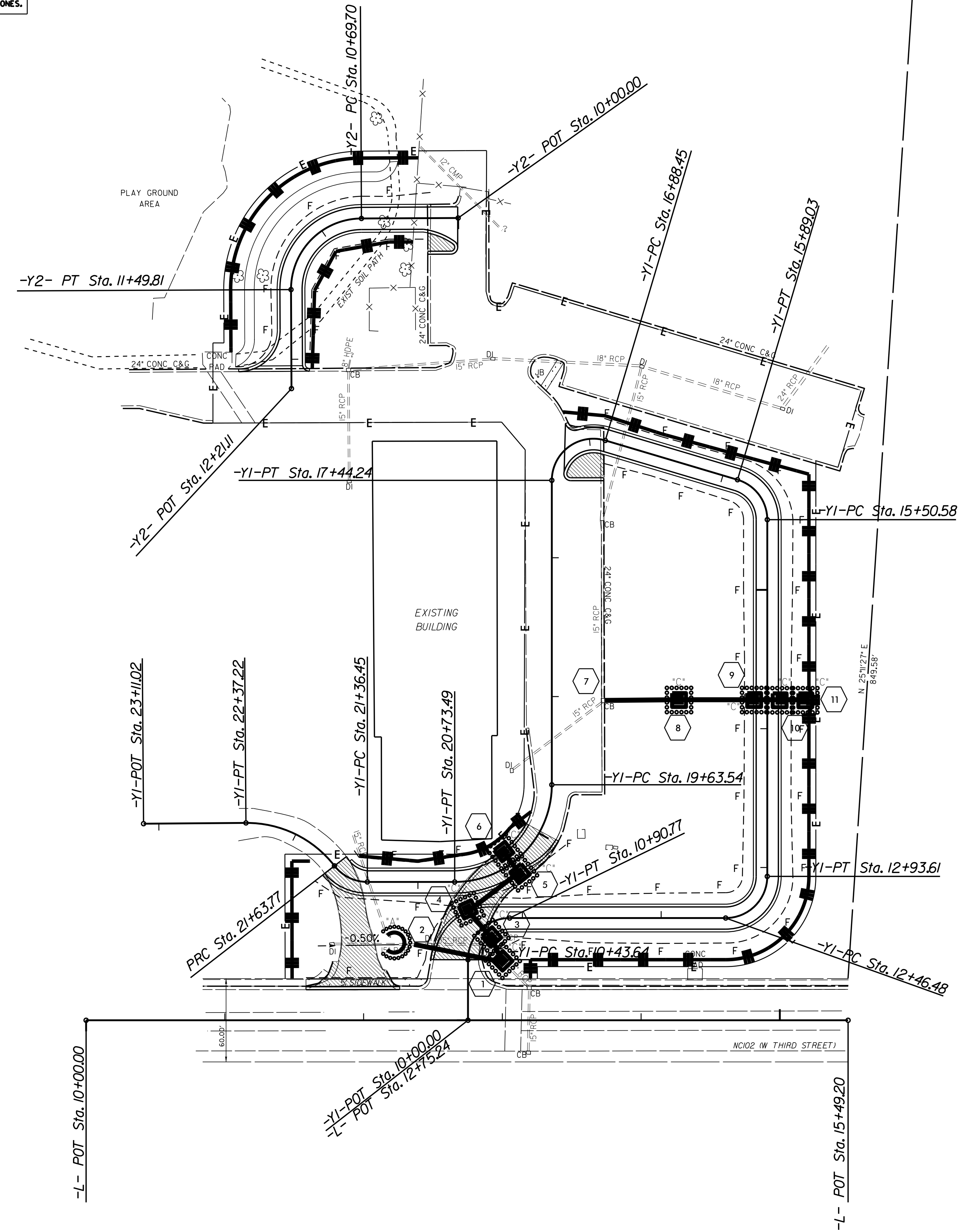
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

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SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERMETER 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 PERMETERS AND HOW ZONES.



NOTE: 70SY OF DITCH LINER REQUIRED -L-STA.11+67 TO 12+35 LT

Std. #	Description	Symbol
1605.01	Temporary Silt Fence
1632.05	Rock Inlet Sediment Trap, Type "C" ...	□
1635.01	Rock Pipe Inlet Sediment Trap, Type "A" ...	⊂

NOTE: THE CONTRACTOR SHALL INSTALL WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR AS DIRECTED BY THE ENGINEER.

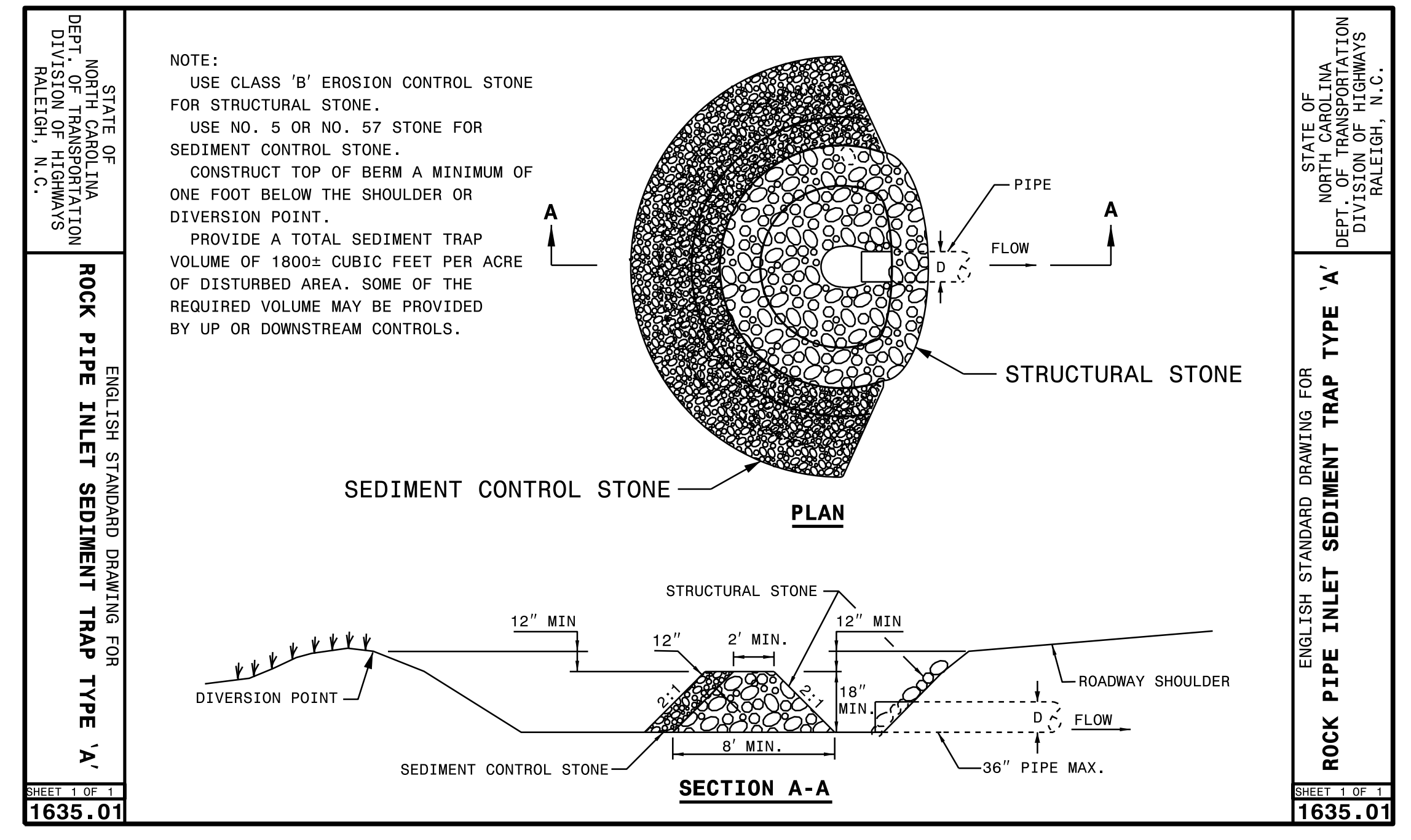
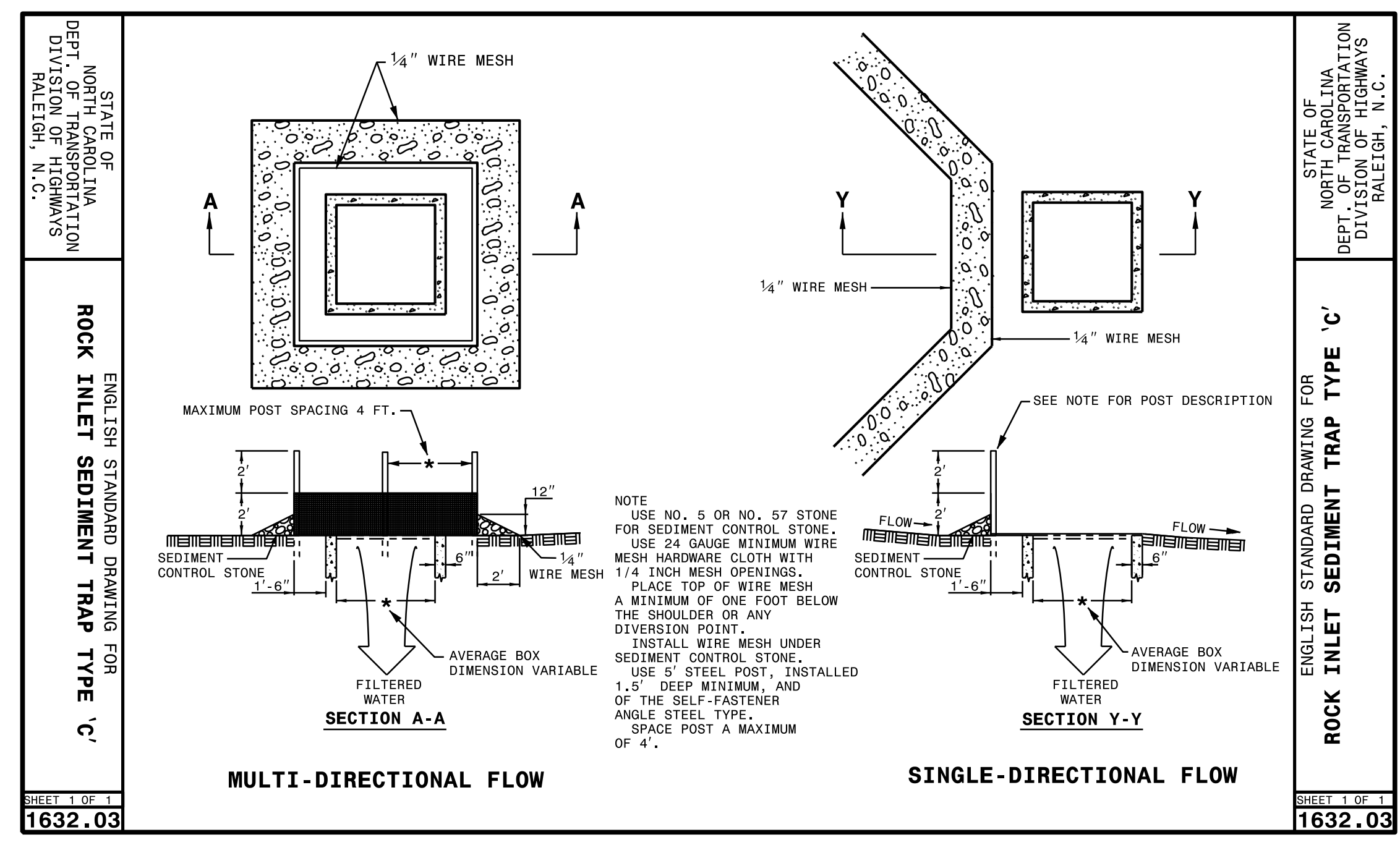
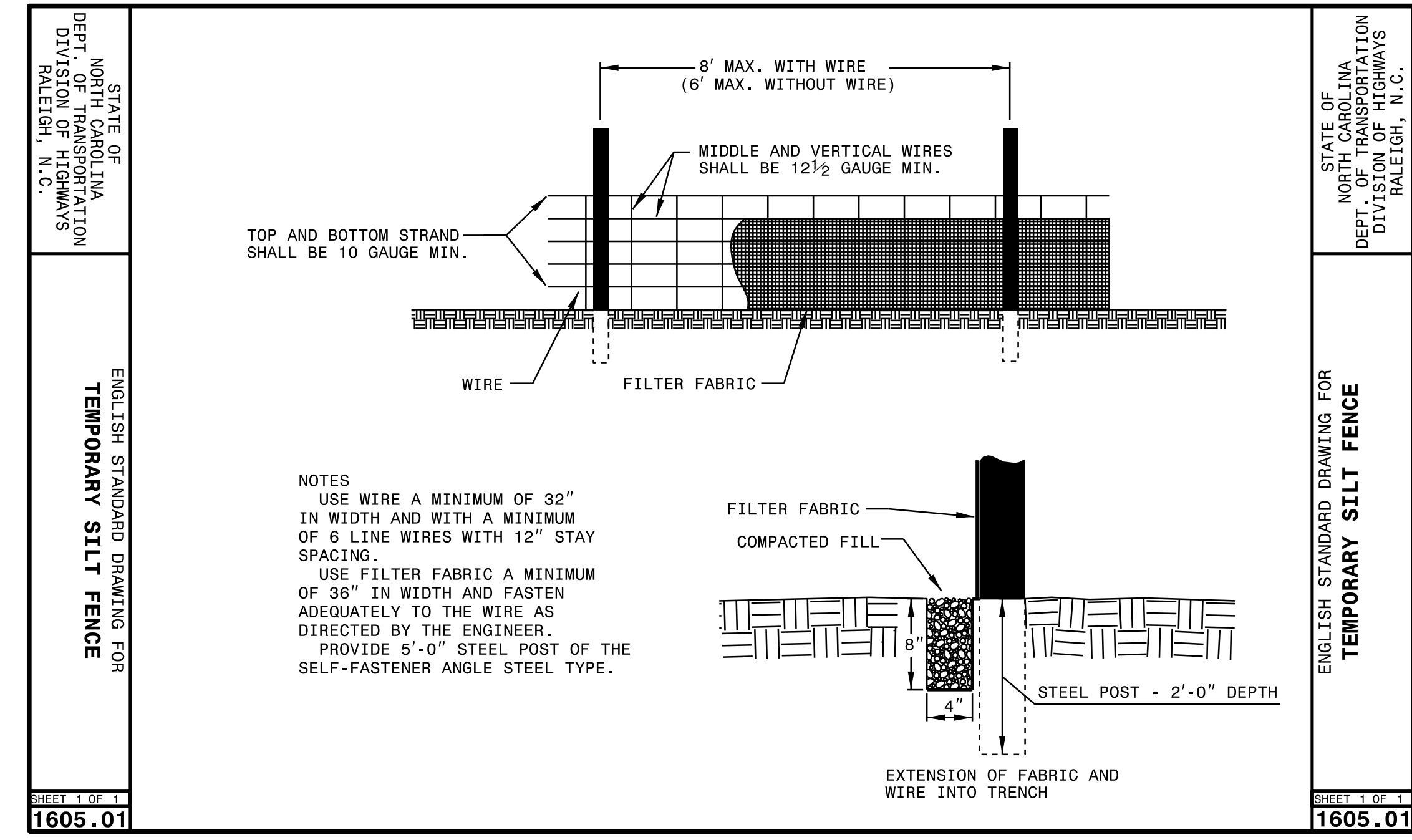
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

REVISIONS

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REVISIONS



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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK
IN CUBIC YARDS

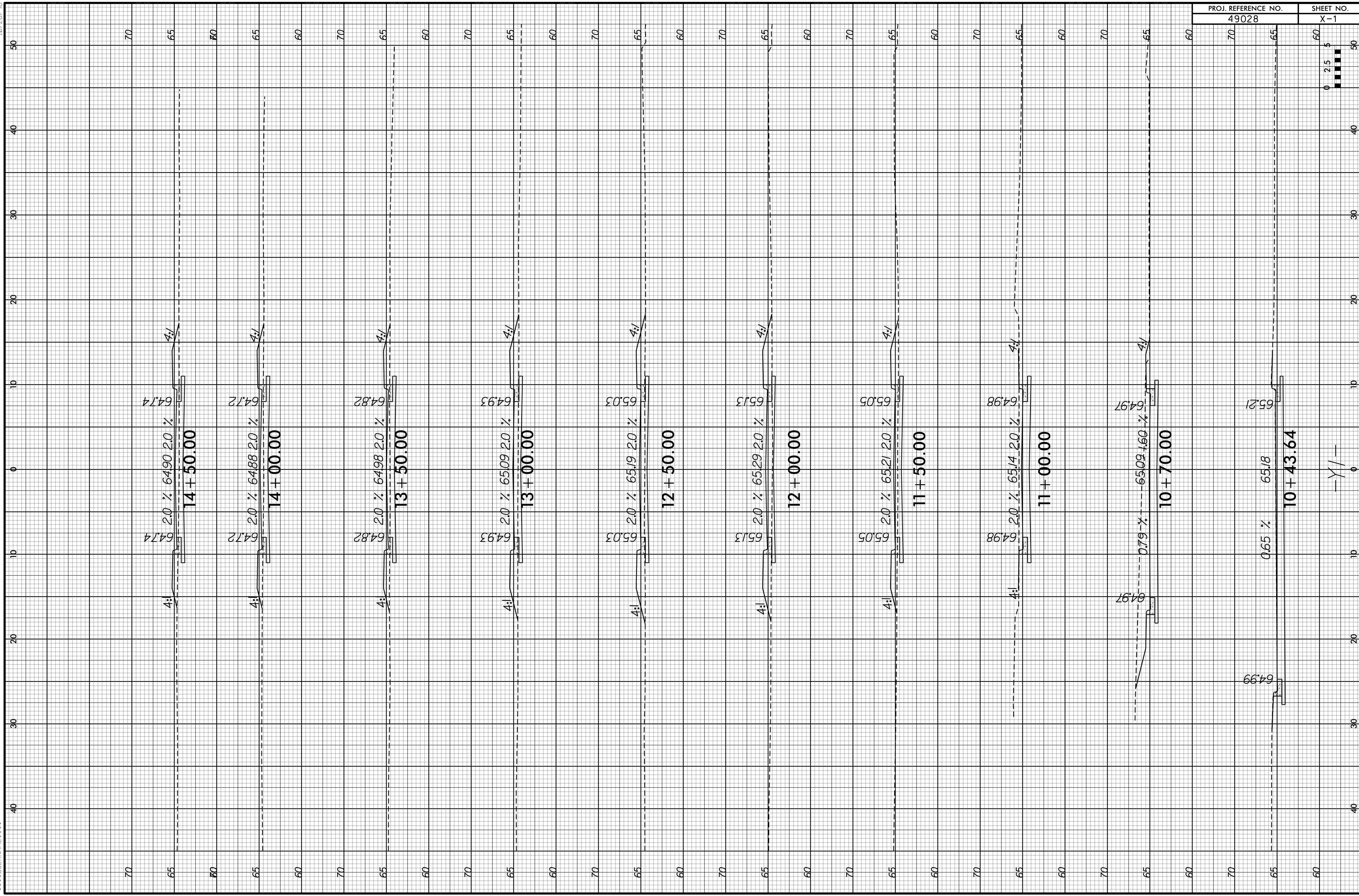
LOCATION (-Y1-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
<i>10 + 43.64</i>	<i>0</i>		<i>0</i>
<i>10 + 70.00</i>	<i>45</i>		<i>0</i>
<i>11 + 00.00</i>	<i>47</i>		<i>1</i>
<i>11 + 50.00</i>	<i>35</i>		<i>11</i>
<i>12 + 00.00</i>	<i>16</i>		<i>24</i>
<i>12 + 50.00</i>	<i>13</i>		<i>28</i>
<i>13 + 00.00</i>	<i>16</i>		<i>27</i>
<i>13 + 50.00</i>	<i>21</i>		<i>22</i>
<i>14 + 00.00</i>	<i>25</i>		<i>17</i>
<i>14 + 50.00</i>	<i>24</i>		<i>17</i>
<i>15 + 00.00</i>	<i>19</i>		<i>21</i>
<i>15 + 50.00</i>	<i>16</i>		<i>25</i>
<i>16 + 00.00</i>	<i>25</i>		<i>17</i>
<i>16 + 50.00</i>	<i>41</i>		<i>5</i>
<i>16 + 91.91</i>	<i>35</i>		<i>4</i>
<i>19 + 98.28</i>	<i>0</i>		<i>0</i>
<i>20 + 50.00</i>	<i>37</i>		<i>13</i>
<i>21 + 00.00</i>	<i>39</i>		<i>11</i>
<i>21 + 50.00</i>	<i>51</i>		<i>3</i>
<i>21 + 63.77</i>	<i>12</i>		<i>2</i>

LOCATION (-Y2-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
<i>10 + 19.85</i>	<i>0</i>		<i>0</i>
<i>10 + 50.00</i>	<i>25</i>		<i>9</i>
<i>11 + 00.00</i>	<i>39</i>		<i>8</i>
<i>11 + 50.00</i>	<i>40</i>		<i>6</i>
<i>11 + 78.76</i>	<i>31</i>		<i>1</i>

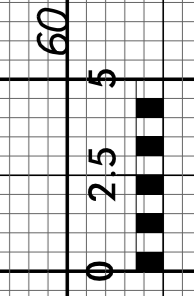
LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
<i>11 + 58.48</i>	<i>0</i>		<i>0</i>
<i>12 + 00.00</i>	<i>5</i>		<i>0</i>
<i>12 + 26.01</i>	<i>3</i>		<i>0</i>

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.
49028	X-1



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