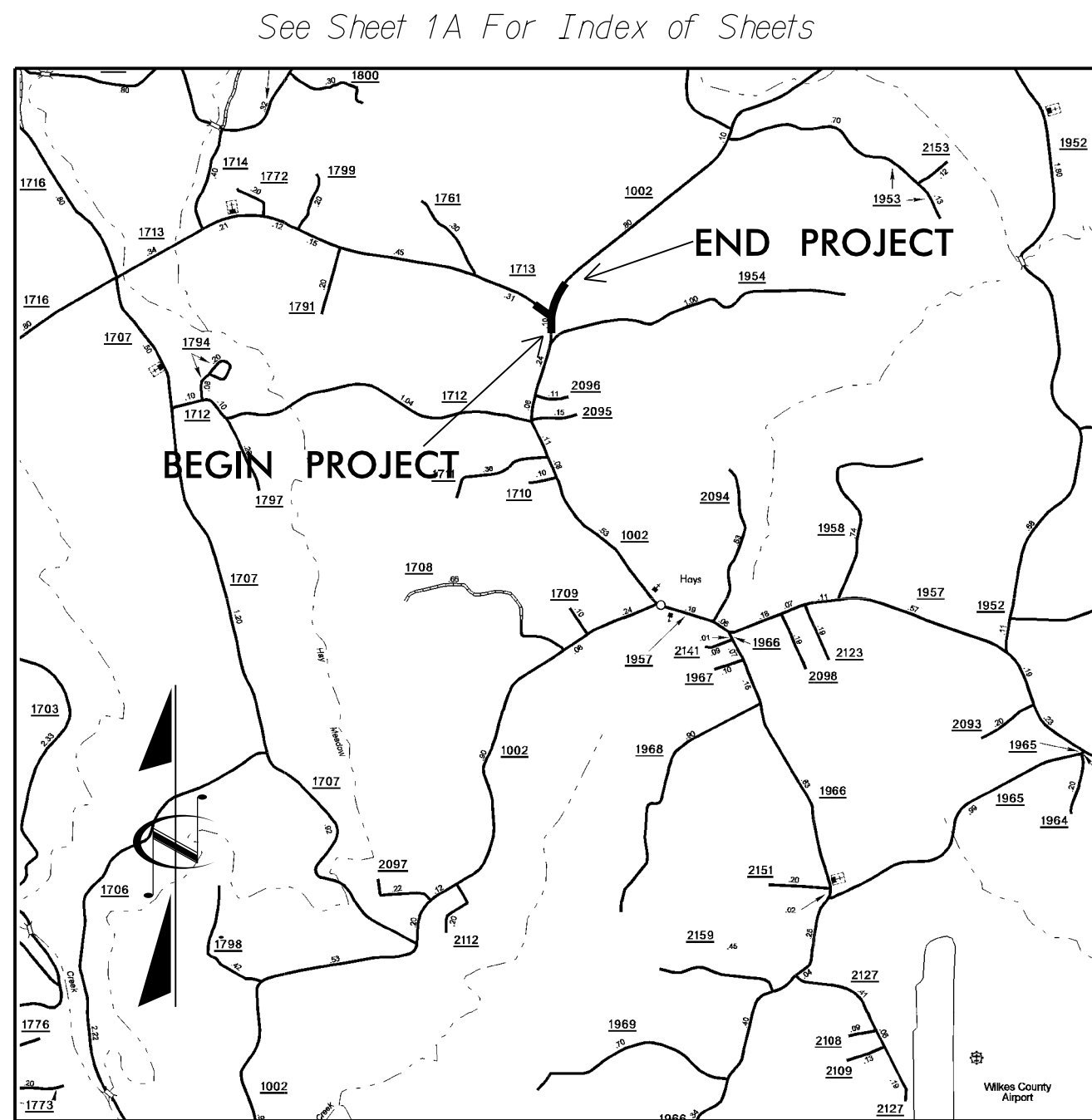


09/08/19
I5-JUN-2021 07:49
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TIP PROJECT: 47754

CONTRACT: DK00301



VICINITY MAP
(NOT TO SCALE)

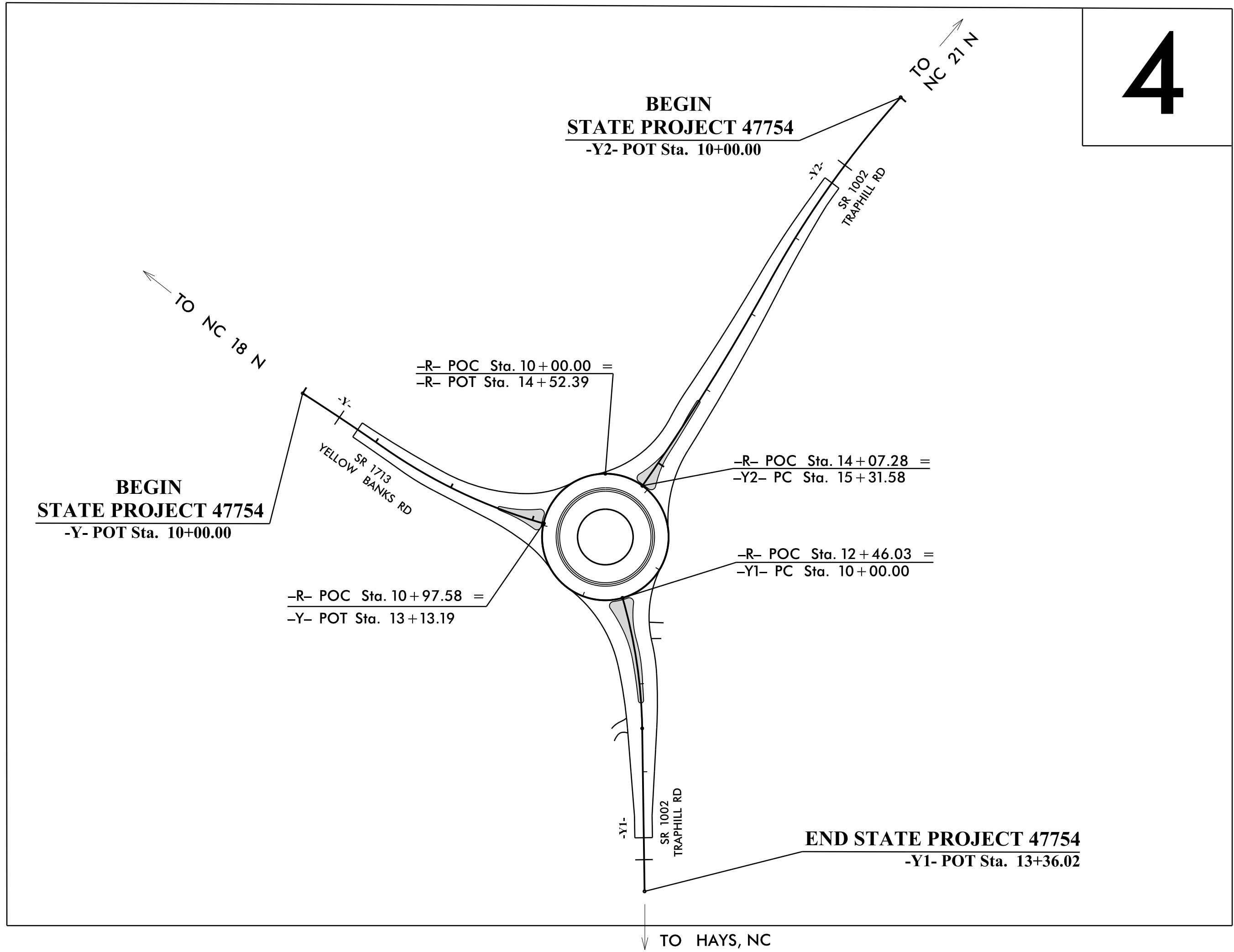
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILKES COUNTY

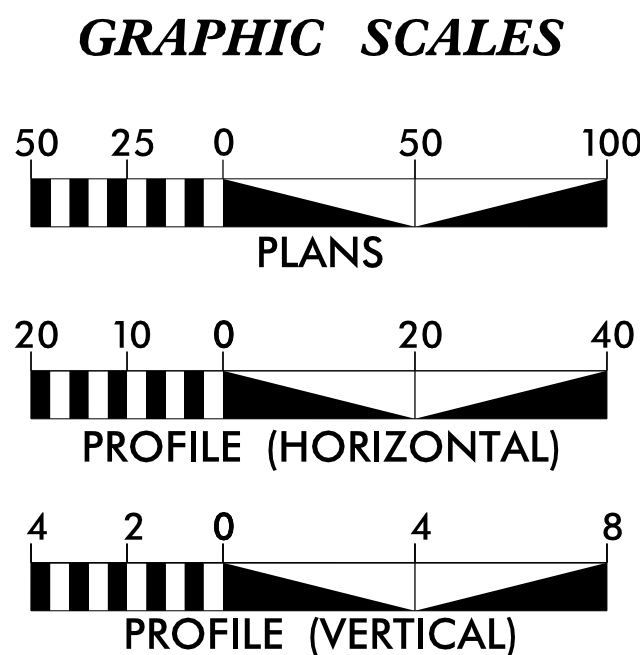
LOCATION: SR 1002 (TRAPHILL ROAD) INTERSECTION AT
SR 1713 (YELLOW BANKS RD.)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, GUARDRAIL,
SIGNING, AND PAVEMENT MARKING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47754	1	53
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47754		PE - RW- UTIL	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA	
ADT 2019 =	5,100
ADT 2040 =	6,300
DHV =	N/A %
D =	N/A %
T =	N/A % *
V =	60 MPH
* TTST =	N/A DUAL N/A
REGIONAL TIER DESIGN FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR	

PROJECT LENGTH
LENGTH ROADWAY PROJECT 47754 = 0.22 MILES
TOTAL LENGTH PROJECT 47754 = 0.22 MILES

Prepared In the Office of: DIVISION OF HIGHWAYS 801 STATESVILLE ROAD, NORTH WILKESBORO, N.C. 28659	
2018 STANDARD SPECIFICATIONS	DIVISION ENGINEER M.A. PETTYJOHN, PE
RIGHT OF WAY DATE: MAY 30, 2019	DocuSigned by: M. A. Pettyjohn 7/6/2021 P.E.
LETTING DATE: JULY 29, 2021	SIGNATURE DATE

HYDRAULICS ENGINEER RANDALL C. HENEGAR, PE	
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENEGAR	
DocuSigned by: Randall C. Henegar 7/6/2021 P.E.	7/2/2021 P.E.

DIVISION PROJECT TEAM LEAD RAMIE A. SHAW, PE	
NORTH CAROLINA PROFESSIONAL SEAL 049581 ENGINEER RAMIE A. SHAW	
DocuSigned by: Ramie A. Shaw 7/6/2021 P.E.	7/6/2021 P.E.

5/28/99

15-JUN-2021 07:49
R:\47754\SR\1002 Tropic Mill Rd\Roadway\Proj\47754_Fdy-sheet-1A.dgn
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

PROJECT REFERENCE NO.	SHEET NO.
47754	I-A

ROADWAY DESIGN
ENGINEER

SEAL

049581

ENGINEER

RAMIE A. SHAW
7/6/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2 THRU 2-B	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-C	ROUNDAABOUT DETAIL SHEET
3-A	ROADWAY SUMMARIES
3-B	DRAINAGE SUMMARIES
4	PLAN SHEET
RW-01 THRU RW-04	RIGHT OF WAY SURVEY SHEETS
5 THRU 8	PROFILE SHEETS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UC-1 THRU UC-4	UTILITIES CONSTRUCTION PLANS
UO-1 THRU UO-3	UTILITIES BY OTHERS PLANS
X	CROSS-SECTION INDEX
X-A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-12	CROSS-SECTIONS

GENERAL NOTES

GENERAL NOTES:	2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISED:
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 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.
DRIVEWAYS:	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
GUARDRAIL:	THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.
TEMPORARY SHORING:	SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.
SUBSURFACE PLANS:	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.
RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

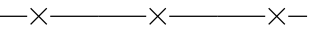
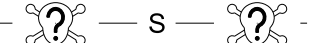
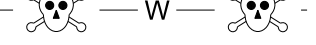
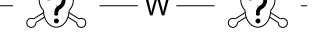
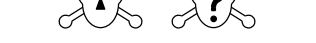
ROADWAY STANDARD DRAWINGS

2018 ROADWAY ENGLISH STANDARD DRAWINGS	EFF. 01-16-2018 REV.
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 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 7	- CONCRETE PAVEMENTS AND SHOULDERS
700.01	Concrete Pavement Joints - Construction and Contraction Joints
DIVISION 8	- INCIDENTALS
806.02	Granite Right-of-Way Marker
846.01	Concrete Curb, Gutter and Curb & Gutter
848.03	Driveway Turnout - Drop Curb Type
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

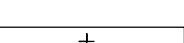
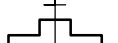
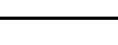
STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
47754	1-B

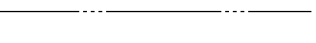
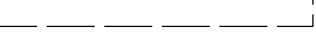
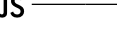
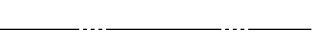
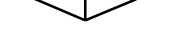
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

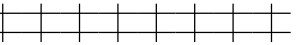
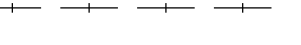
BUILDINGS AND OTHER CULTURE:

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

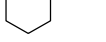
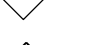
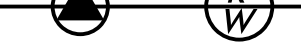
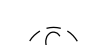
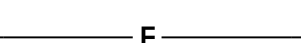
HYDROLOGY:

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

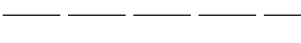
RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

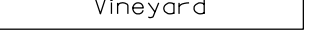
Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line 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:

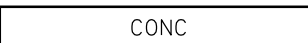
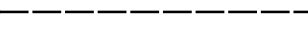
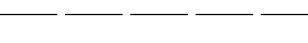
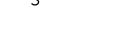
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

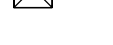
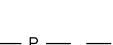
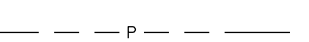
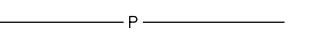
Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	

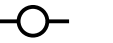
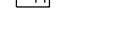
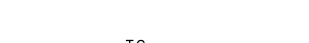
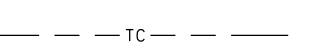
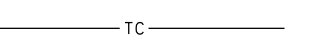
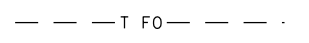
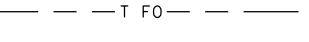
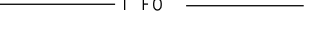
EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

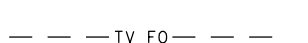
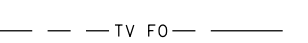
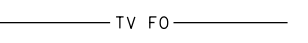
TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

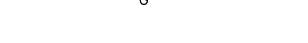
WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

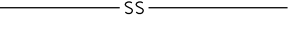
TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

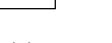
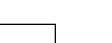
GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

MISCELLANEOUS:

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

PROJECT REFERENCE NO.
47754

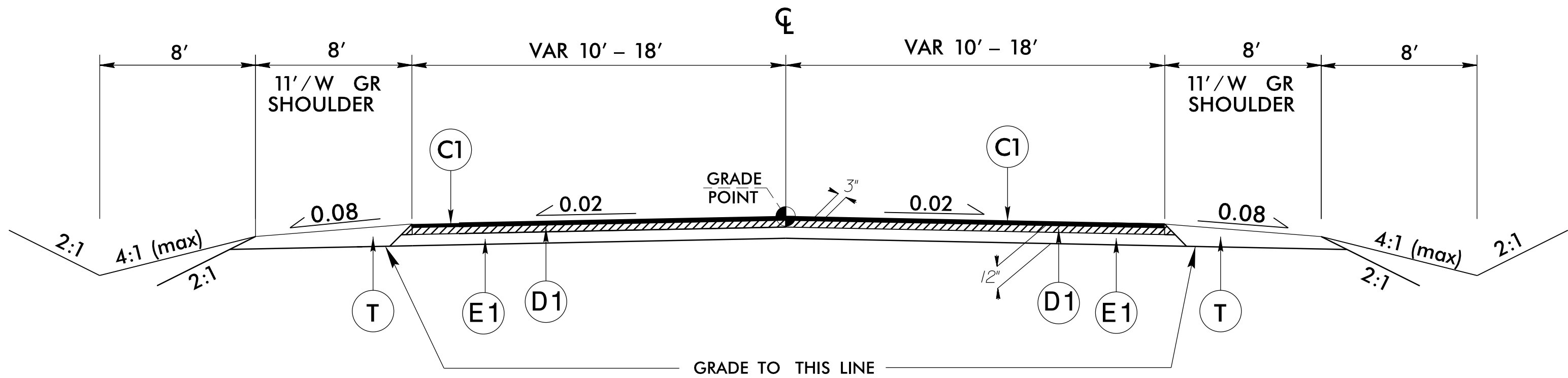
SHEET NO.
2-A

ROADWAY DESIGN
ENGINEER

SEAL
049581
ENGINEER

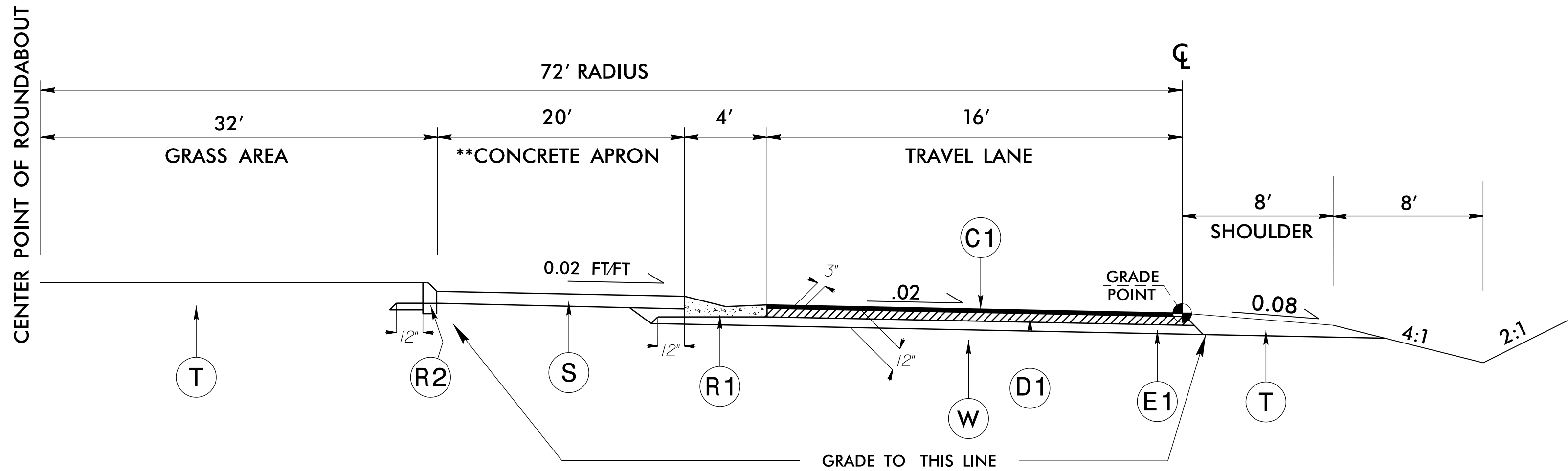
7/6/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TYPICAL SECTION NO. 1

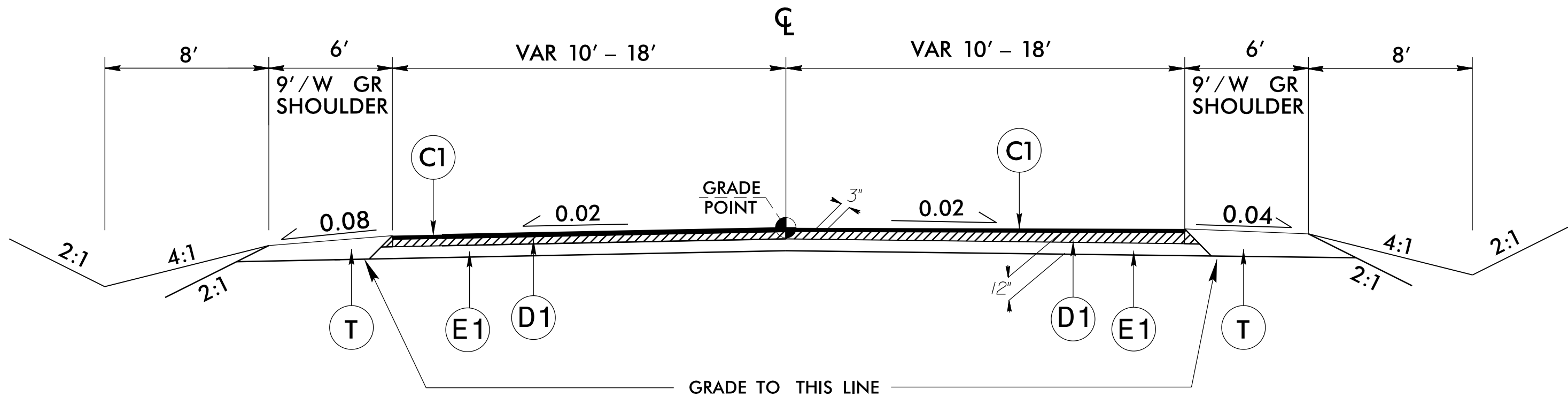
-Y1- STA. 10+00.00 TO STA. 11+50.00
-Y2- STA. 11+25.00 TO STA. 15+31.58



ROUNDAABOUT TYPICAL SECTION NO. 2

-R- STA 10+00.00 TO STA 14+52.39*

**7" JOINTED PLAIN CONCRETE REINFORCED WITH 4X4 W3.5 X W3.5 OR 6X6 W5 X W5 WIRE MESH.
CONSTRUCT THE APRON IN TWO 10 FT. WIDTHS AND TIE TOGETHER THE ADJACENT SLABS. JOINT
SPACING SHALL BE 10 FT., MEASURED ALONG THE LONGITUDINAL JOINTS BETWEEN SLAB.

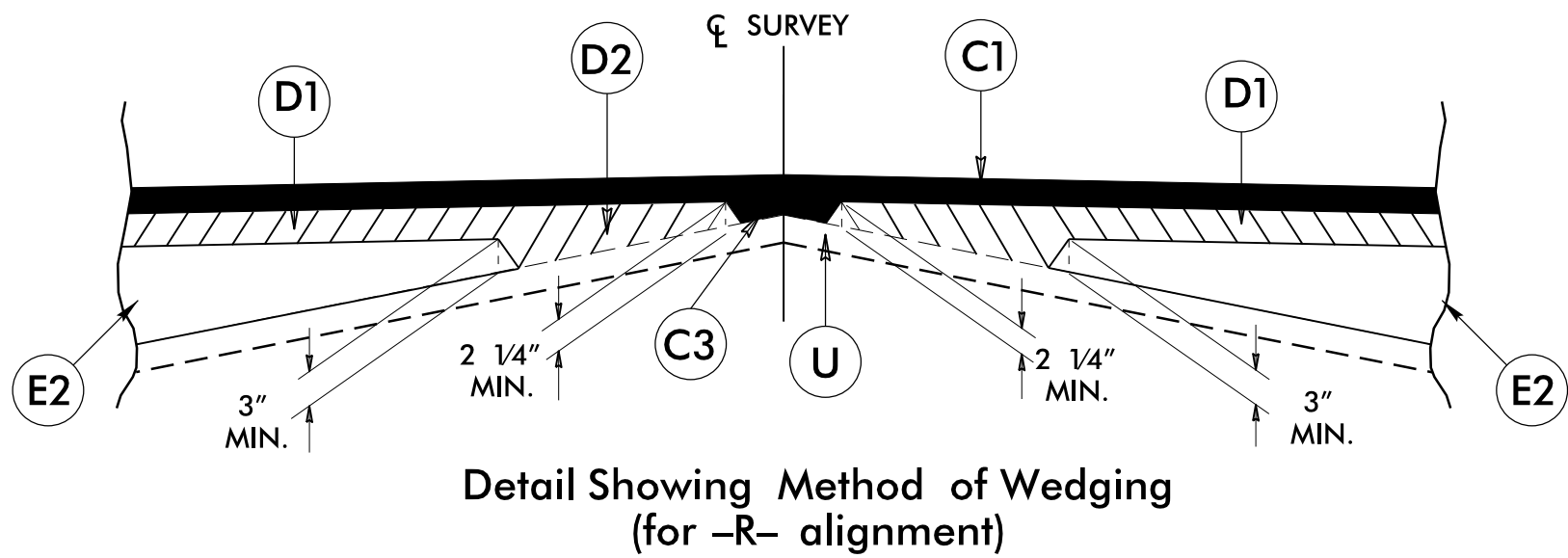


TYPICAL SECTION NO. 3

-Y- STA. 11+65.00 TO STA. 13+13.19

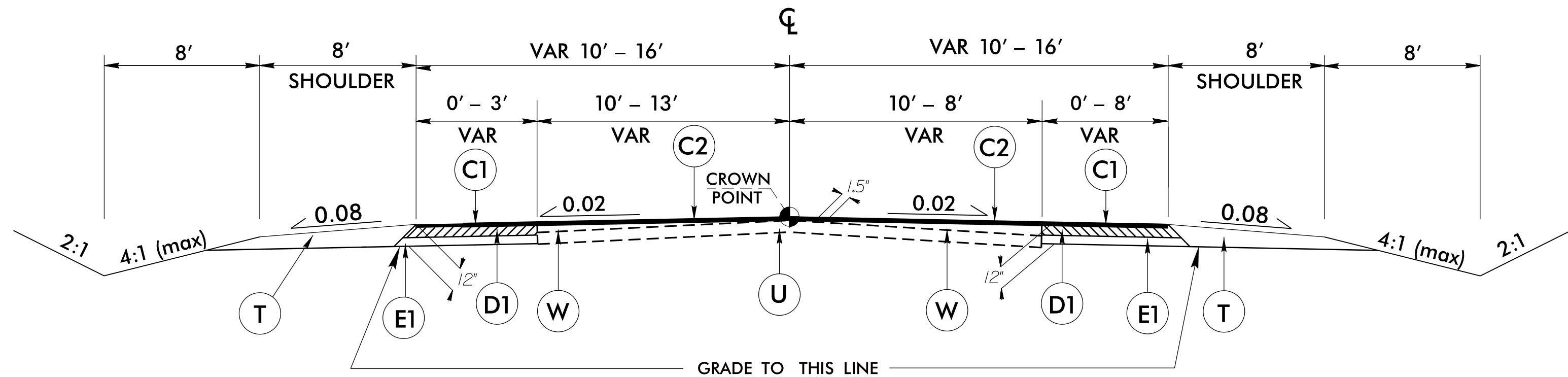
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2¼" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R1	4' EXPRESSWAY GUTTER
R2	9" X 12" CONCRETE CURB
S	7" CONCRETE APRON
T	EARTH MATERIAL
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)
U	EXISTING PAVEMENT

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

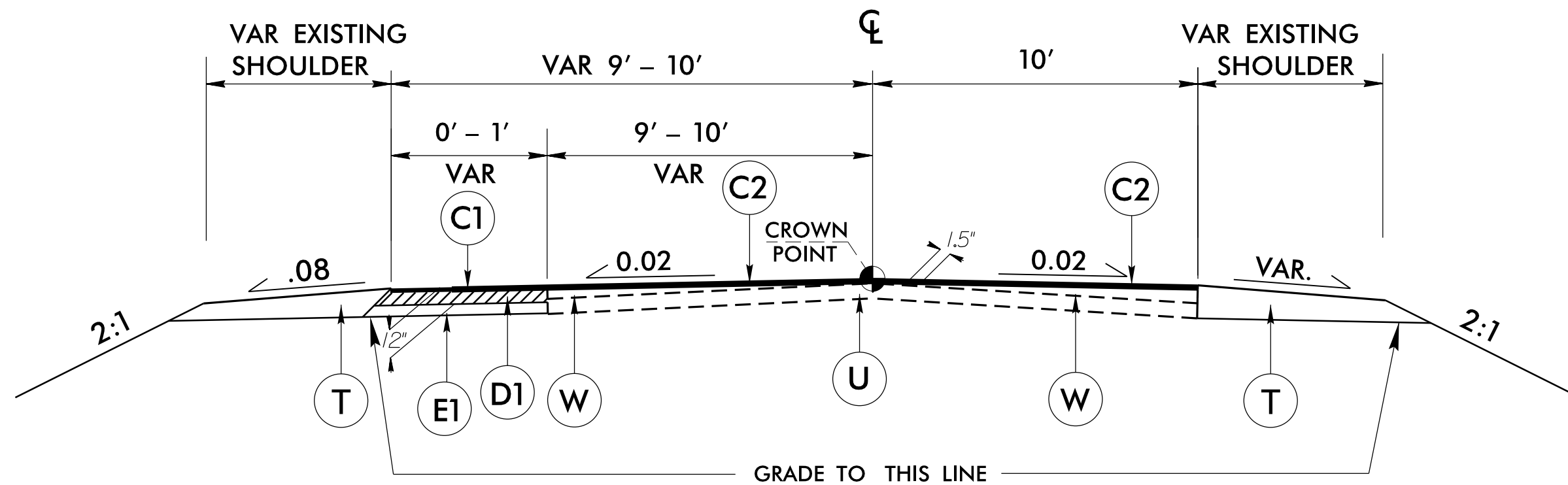


6/2/09

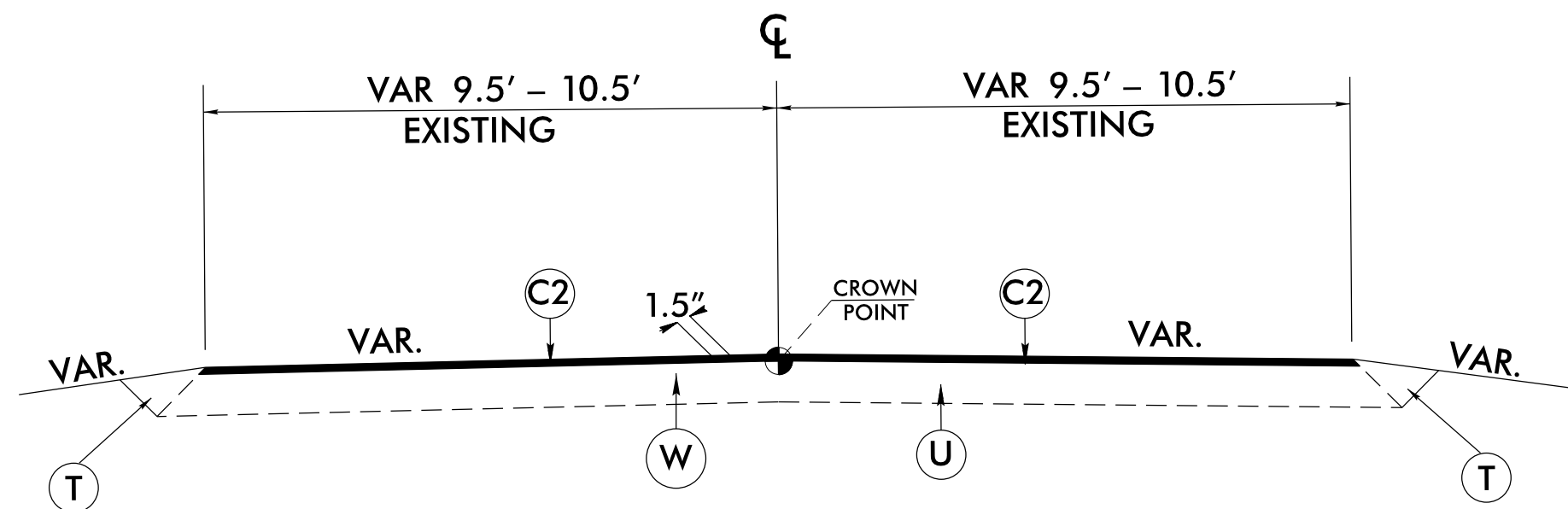
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\$\$\$\$\$USERNAME\$\$\$\$\$



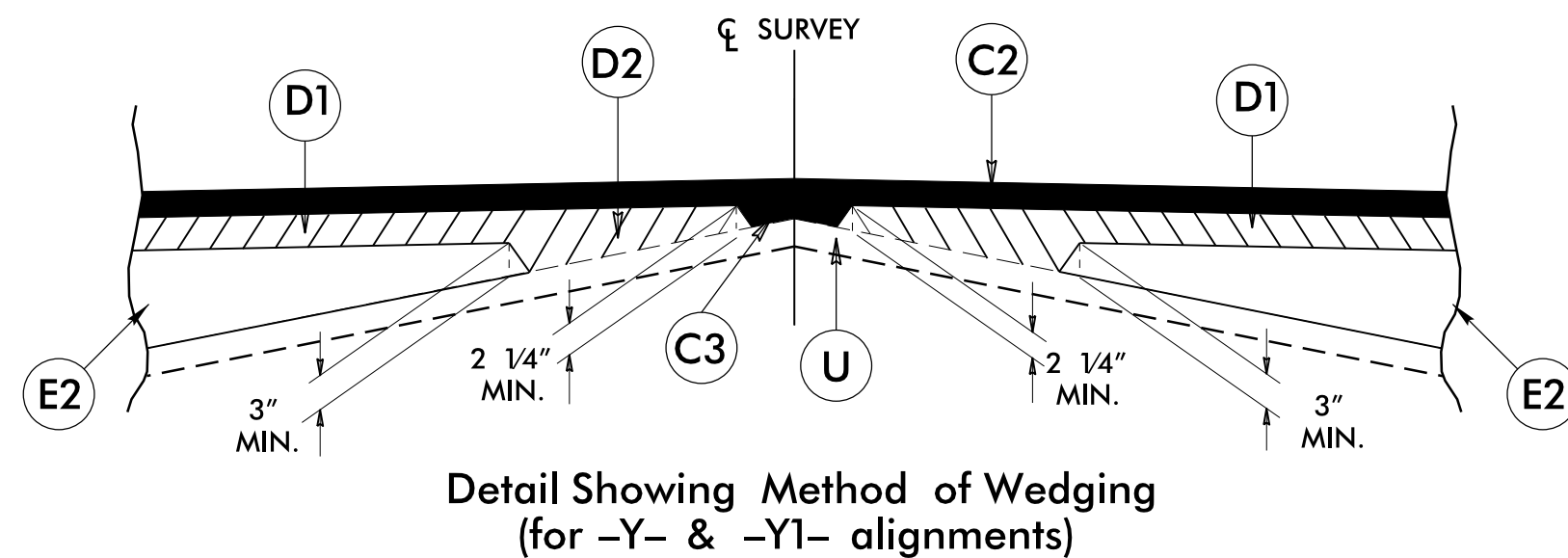
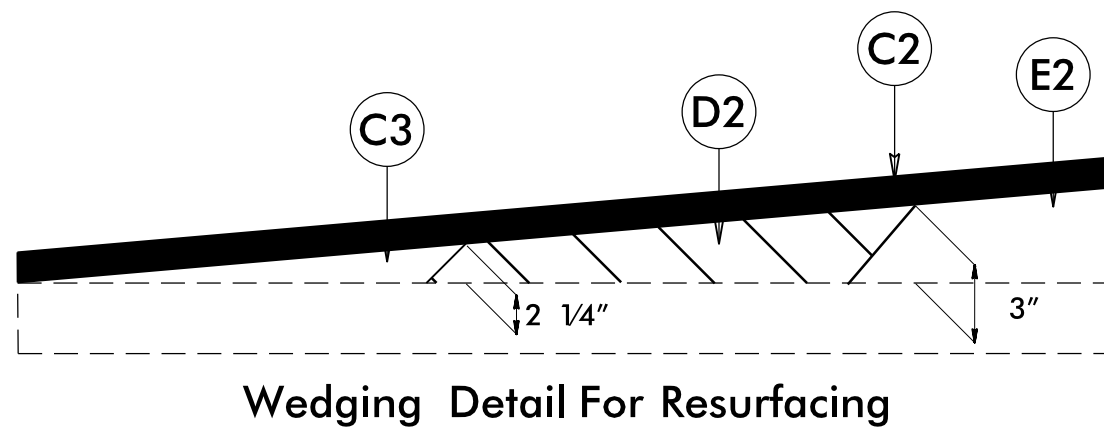
TYPICAL SECTION NO. 4
-Y1- STA. 12+75.00 TO STA. 11+50.00

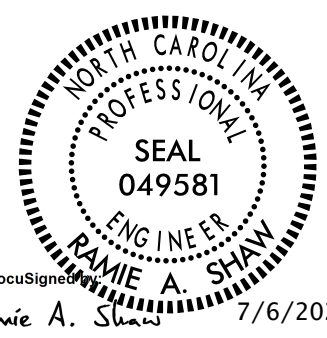


TYPICAL SECTION NO. 5
-Y- STA. 10+75.00 TO STA. 11+65.00



TYPICAL SECTION NO. 6
-Y- STA. 10+50.00 TO STA. 10+75.00 (RESURFACE)
-Y1- STA. 12+75.00 TO STA. 13+00.00 (RESURFACE)
-Y2- STA. 11+00.00 TO STA. 11+25.00 (RESURFACE)



PROJECT REFERENCE NO. 47754		SHEET NO. 2-B
ROADWAY DESIGN ENGINEER		 7/6/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2¼" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
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R2	9" X 12" CONCRETE CURB
S	7" CONCRETE APRON
T	EARTH MATERIAL
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)
U	EXISTING PAVEMENT

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

NC GRID
NAD 83/2011



PROJECT REFERENCE NO.	SHEET NO.
47754	3-A

**SUMMARY OF EXISTING ASPHALT
PAVEMENT REMOVAL**
[IN CUBIC YARDS]

SURVEY LINE	STATION	STATION	LOCATION LY/RV/CL	YD'
-R-	11 + 28	12 + 06	LT	166.81
-R-	12 + 79	13 + 57	LT	156.73
-Y-	10 + 75	13 + 13	RT	311.38
-Y1-	10 + 00	10 + 74	RT	100.66
-Y1-	10 + 00	10 + 38	LT	87.39
-Y1-	10 + 54	11 + 00	LT	25.50
-Y1-	11 + 38	11 + 56	RT	26.14
-Y2-	13 + 58	15 + 32	LT	260.22
			TOTAL:	1134.83
			SAY:	1140

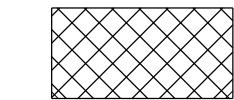
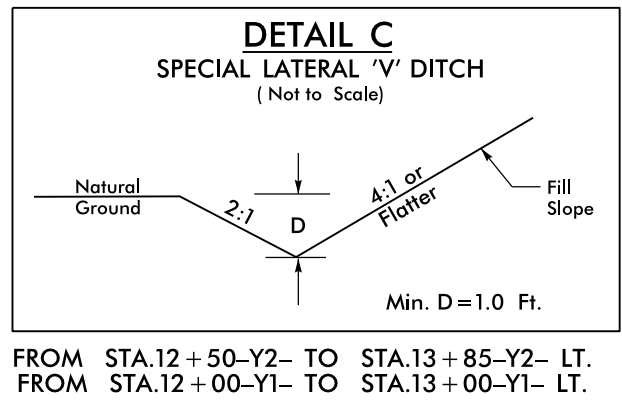
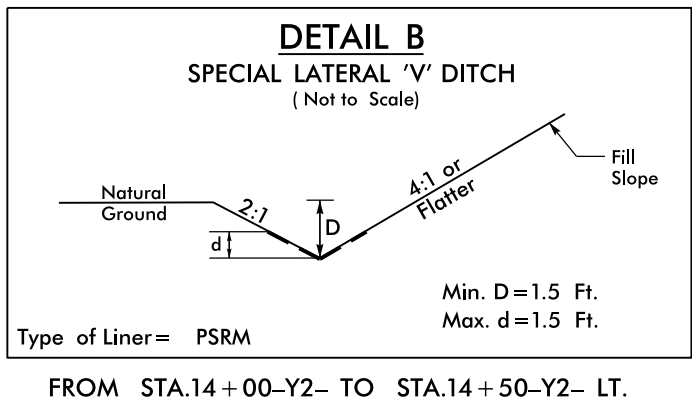
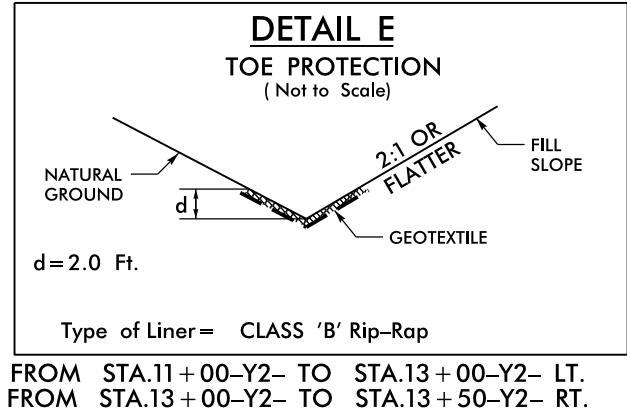
Approximate quantities only. Clearing and Grubbing, Unclassified Excavation, Fine Grading, Borrow Excavation, and Removal of Existing Asphalt Pavement will be paid for at the contract lump sum price for "Grading."

GUARDRAIL SUMMARY

[illegible]

PROJECT REFERENCE NO.		SHEET NO.	
47754		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NC GRID
NAD 83/2011



PAVEMENT TO
BE REMOVED

NOTES

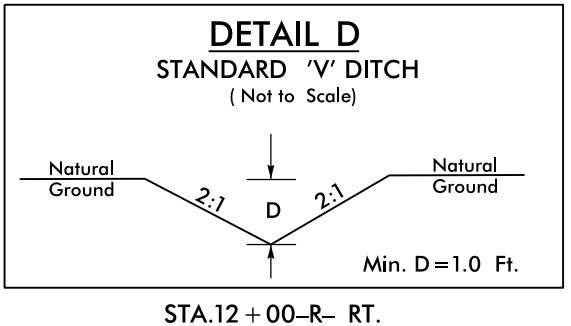
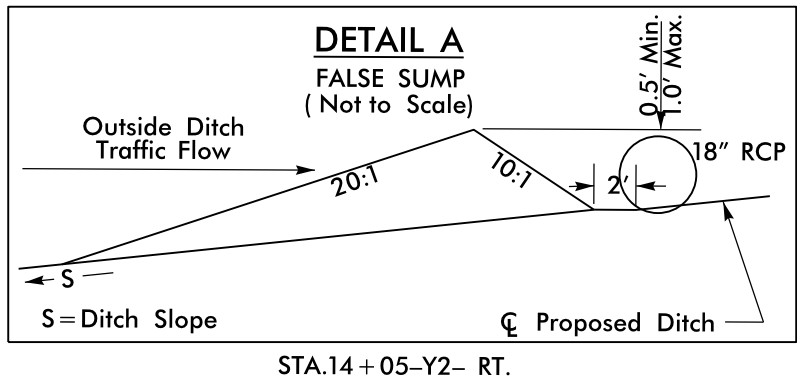
FOR -R- PROFILE SEE SHEET 5
FOR -Y- PROFILE SEE SHEET 6
FOR -Y1- PROFILE SEE SHEET 7
FOR -Y2- PROFILE SEE SHEET 8

BEGIN STATE PROJECT 47754
-Y- POT Sta. 10+00.00

BEGIN STATE PROJECT 47754
-Y2- POT Sta. 10+00.00

END STATE PROJECT 47754
-Y1- POT Sta. 13+36.02

-R-		
PI Sta 10+00.13	PI Sta 10+58.68	PI Sta 12+50.75
Δ = 359° 48' 03.8" (RT)	Δ = 2° 11' 56.5" (RT)	Δ = 26° 02' 39.7" (LT)
D = 79° 34' 38.9"	D = 2° 05' 00.5"	D = 9° 30' 45.3"
L = 452.14'	L = 105.55'	L = 273.79'
T = 0.13'	T = 52.78'	T = 139.30'
R = 72.00'	R = 2,750.00'	R = 602.32'
	SE = .02	SE = .02
		RUNOFF = 47'
-Y1-		
PI Sta 10+75.77	PI Sta 11+36.80	PI Sta 13+96.26
Δ = 15° 26' 55.6" (RT)	Δ = 12° 22' 22.8" (LT)	Δ = 6° 12' 26.3" (RT)
D = 10° 15' 26.6"	D = 5° 05' 34.6"	D = 2° 17' 28.7"
L = 150.61'	L = 242.94'	L = 270.91'
T = 75.77'	T = 121.95'	T = 135.59'
R = 558.58'	R = 1,125.00'	R = 2,500.58'
		SE = .06
		RUNOFF = 47'



1 DEBBIE G. STEELMAN
DB 1020 PG 153
DB 1020 PG 154
PB 3 PG 145

2 NORTHWIND PROPERTIES OF WILKES, LLC
DB 844 PG 162
PB 9 PG 470

3 EVERETTE MONROE HUFFMAN, III
AMANDA S. HUFFMAN
DB 1242 PG 90

5 WARREN STEVE SHEW
WANDA BYERLY SHEW
DB 731 PG 883
DB 730 PG 895

4 STONE MOUNTAIN
BAPTIST ASSOCIATION
DB 595 PG 684

09/08/99

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

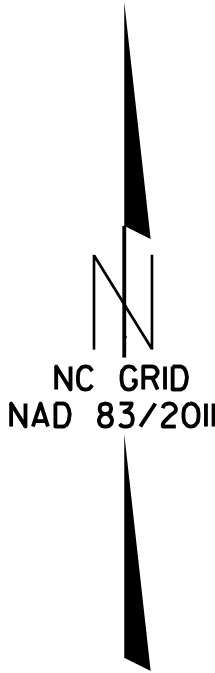
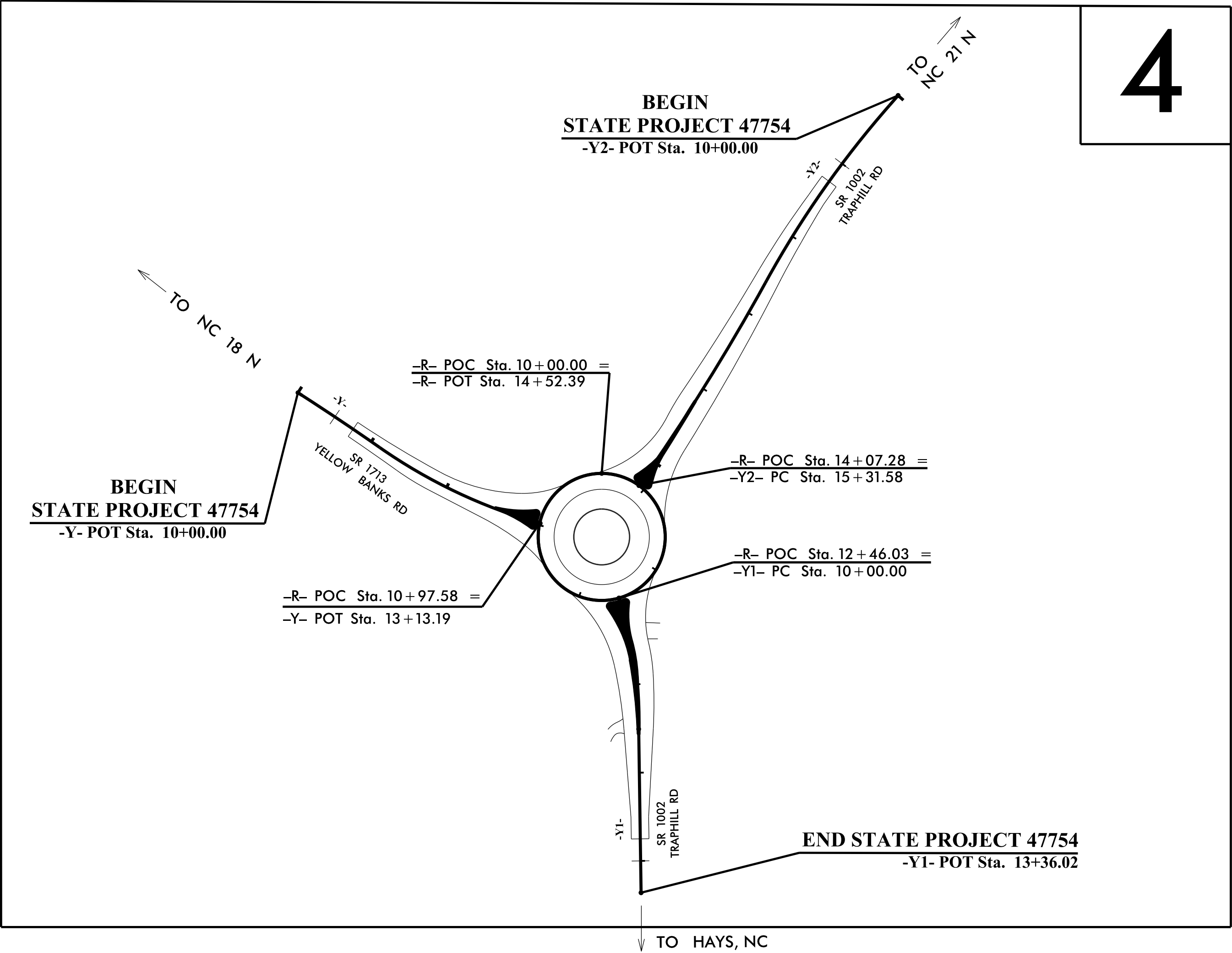
TIP PROJECT: 47754

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

WILKES COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47754	RW01	3



GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "47754-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 921343.4410(ft) EASTING: 1374398.1740(ft) ELEVATION: 1372.58(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99996798 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "47754-2" TO -L- STATION 10+00 IS N 24-53'14.09" X 749.8042(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

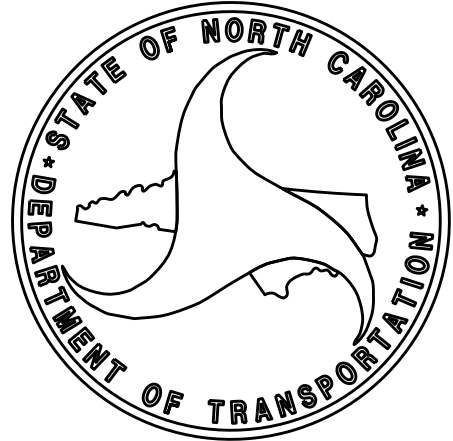
PROFESSIONAL LAND SURVEYOR

DocuSigned by:
R. Landon Wagner
94066137FD3042D...



SIGNATURE:

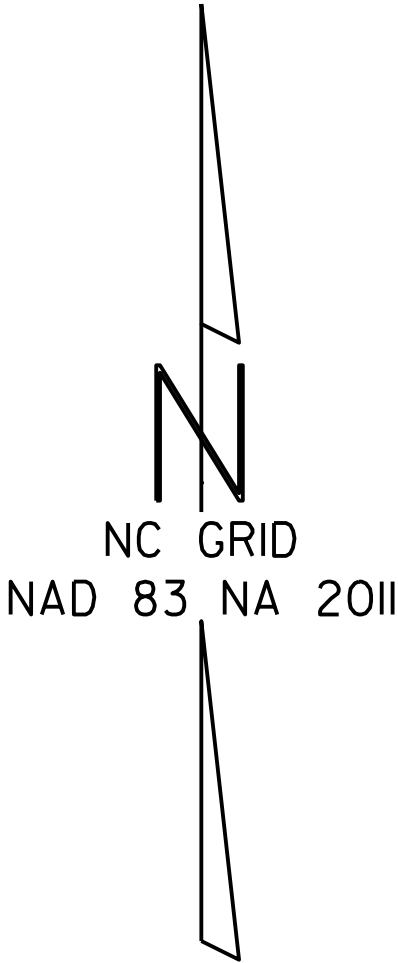
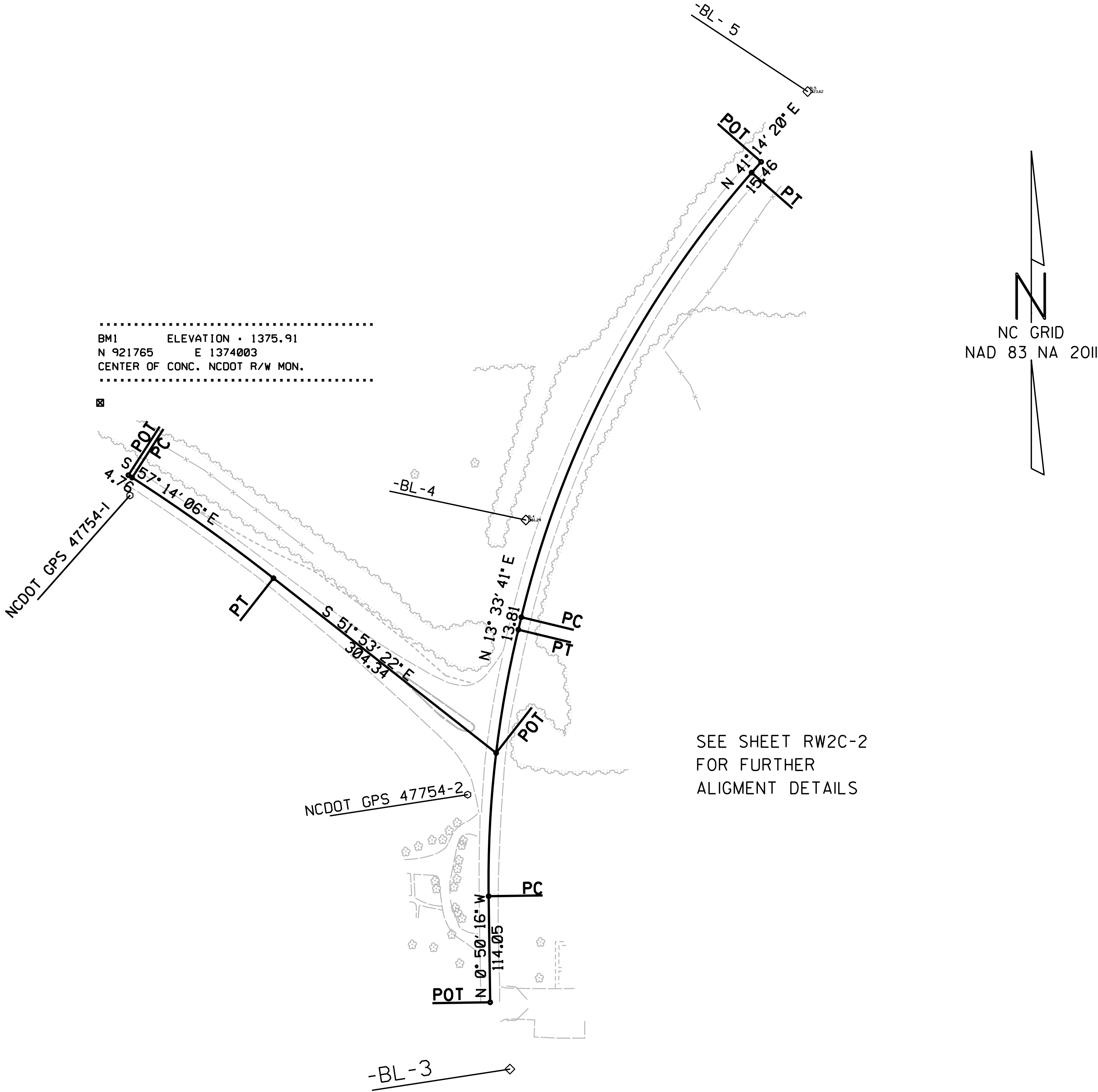
Date:



PROJECT REFERENCE NO.	SHEET NO.
47754	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

[illegible]

BM1 ELEVATION = 1375.91

N 921765 E 1374003

CENTER OF CONC. NCDOT R/W MON.

[illegible]

BL	POINT	DESC.	NORTH	EAST	ELEVATION
BL 3		BL - 3	921048.4280	1374443.5090	1377.63
477542		NCDOT GPS 47754	921343.4410	1374398.1740	1372.58
BL 4		BL - 4	921638.6300	1374460.6850	1361.29
BL 5		BL - 5	922099.1870	1374763.7080	1323.62

BY	POINT	DESC.	NORTH	EAST	ELEVATION
477541	NCDOT GPS 47754		921665.0690	1374034.9460	1372.45
BY2	NCDOT GPS 47754		921343.4410	1374398.1740	1372.58

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	921120.249	1374422.343							
LINE			N 00°50'15.9" W	114.05					
PC	921234.289	1374420.675							
CURVE			N 06°21'42.4" E	288.25	14°23'56.8"(RT)	04°58'56.1"	289.01	145.27	1150.00
PT	921520.763	1374452.615							
LINE			N 13°33'40.8" E	13.81					
PC	921534.186	1374455.853							
CURVE			N 27°24'00.4" E	538.18	27°40'39.1"(RT)	05°05'34.6"	543.45	277.13	1125.00
PT	922011.988	1374703.523							
LINE			N 41°14'19.9" E	15.46					
POT	922023.617	1374713.717							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	921686.832	1374033.322							
LINE			S 57°14'06.3" E	4.76					
PC	921684.255	1374037.325							
CURVE			S 54°33'43.9" E	186.53	05°20'44.7"(RT)	02°51'53.2"	186.60	93.37	2000.00
PT	921576.099	1374189.303							
LINE			S 51°53'21.6" E	304.34					
POT	921388.268	1374428.762							

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

\$SYTIME\$\$\$\$\$
 \$\$\$\$DGN\$\$\$\$\$
 \$\$\$USERNAME\$\$\$

6/2/99

REVISIONS

6/2/99

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
47754	RW02D-1
Location and Surveys	

R

TYPE	STATION	NORTH	EAST
PC	10+00.00	921595.4021	1374377.6957
PT	14+52.14	921595.4017	1374377.9457

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	921686.8322	1374033.3218
PC	10+05.90	921683.6380	1374038.2849
PRC	11+11.45	921624.8285	1374125.9200
PT	13+85.24	921523.4021	1374377.6957

Y1

TYPE	STATION	NORTH	EAST
PC	10+00.00	921454.1158	1374397.2767
PT	11+50.61	921305.6342	1374419.6321
POT	13+36.02	921120.2491	1374422.3429

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	922023.6166	1374713.7171
PC	10+14.85	922012.4489	1374703.9270
PT	12+57.79	921813.9552	1374564.6697
PC	12+60.67	921811.4337	1374563.2798
PT	15+31.58	921581.7263	1374419.9125

NOTES:

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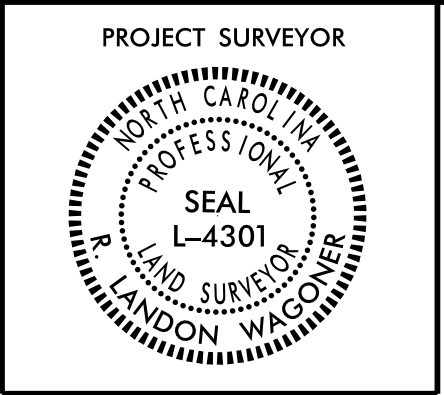
6/2/19

REVISIONS

6/2/19

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
47754	RW03E-1



ROW MARKER CONCRETE OR GRANITE -E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	12+45.00	-29.92	921588.6960	1374254.2579

ROW MARKER CONCRETE OR GRANITE -E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	11+42.84	32.60	921312.4702	1374386.8766
Y1	11+93.42	-30.36	921263.2737	1374450.6185
Y1	12+50.00	-30.00	921206.6944	1374451.0820
Y1	12+50.00	30.00	921205.8171	1374391.0885
Y1	12+75.00	-15.00	921181.4778	1374436.4492
Y1	12+75.00	15.00	921181.0391	1374406.4524

ROW MARKER CONCRETE OR GRANITE -E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	12+75.00	30.00	921813.5404	1374530.1385
Y2	15+00.00	30.00	921624.6149	1374413.1283

PROPOSED EASEMENT MISCELLANEOUS2 HATCHING PSD				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+00.00	-58.00	921911.5316	1374696.6529
Y2	11+00.00	-29.95	921928.3720	1374674.2255
Y2	11+50.00	-61.00	921871.2967	1374671.5068
Y2	12+51.00	-29.87	921805.3165	1374594.0411
Y2	12+51.03	-48.25	921796.3171	1374610.0700
Y2	13+00.00	60.00	921806.9327	1374491.9414
Y2	13+00.01	56.05	921804.9593	1374495.3666
Y2	13+00.10	30.00	921791.9559	1374517.9357
Y2	13+50.00	30.00	921749.4046	1374493.0300
Y2	13+50.00	45.00	921757.1106	1374480.1608
Y2	13+67.00	-37.72	921699.8399	1374542.2153
Y2	13+84.00	-47.00	921680.2507	1374541.0957
Y2	13+87.46	-41.01	921680.4051	1374534.1490
Y2	14+08.00	30.00	921700.5863	1374463.0237
Y2	14+18.00	47.00	921701.3670	1374443.3938
Y2	14+31.50	30.00	921681.0068	1374450.5450
Y2	14+36.00	37.00	921681.0714	1374442.2560

PROPOSED EASEMENT MISCELLANEOUS2 HATCHING PSD				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+03.00	99.55	921423.8309	1374302.4108
Y1	10+09.00	115.00	921414.9890	1374288.8404
Y1	10+25.00	85.69	921409.6421	1374320.4994
Y1	10+33.00	108.00	921398.0713	1374300.3169

I, R. Landon Wagoner, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 26th day of June, 2019.

DocuSigned by:
R. Landon Wagoner
94066137FD30A2D
Professional Land Surveyor

9/6/2019

L-4301
PLS *

Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

BEGIN STATE PROJECT 47754
-Y2- POT Sta. 10+00.00

NC GRID
NAD 83/2011

BMI ELEVATION = 1375.91
N 921765 E 1374003
CENTER OF CONC. NCDOT R/W MON.

1 DEBBIE G. STEELMAN
DB 1020 PG 153
DB 1020 PG 154
PB 3 PG 145

I, R. Landon Wagoner, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map, Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 20th day of June, 2019.

DocuSigned by:
R. Landon Wagoner 9/6/2019
94068137ED3042D
Professional Land Surveyor

L-4301
PLS

Seal

BEGIN STATE PROJECT 47754
-Y- POT Sta. 10+00.00

2 NORTHWIND PROPERTIES OF WILKES, LLC
DB 844 PG 162
PB 9 PG 470

5 WARREN STEVE SHEW
WANDA BRYERLY SHEW
DB 73 PG 883
DB 730 PG 895

3 EVERETTE MONROE HUFFMAN, III
AMANDA S. HUFFMAN
DB 1242 PG 90

4 STONE MOUNTAIN
BAPTIST ASSOCIATION
DB 595 PG 684

NOTES:

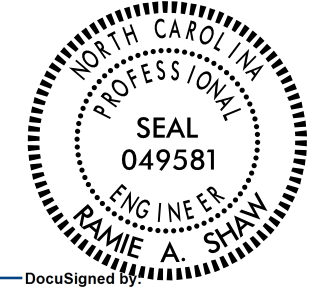
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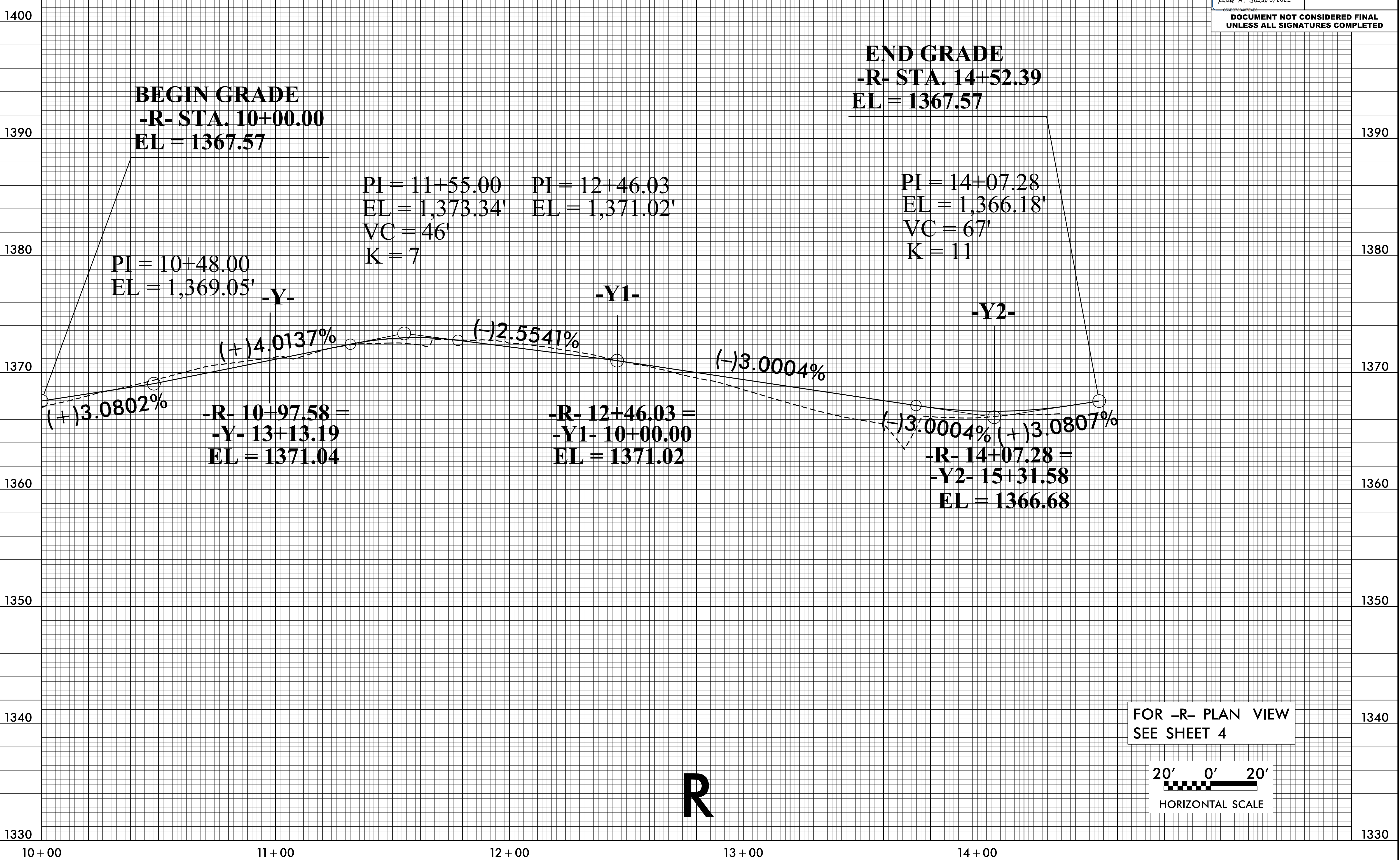
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

-R-	-Y-	-Y1-	-Y2-
PI Sta 10+00.13 Δ = 359° 48' 03.8" (LT) D = 79° 34' 38.9" L = 452.14' T = 0.13' R = 72.00'	PI Sta 10+58.68 Δ = 2° 11' 56.5" (RT) D = 2° 05' 00.5" L = 105.55' T = 52.78' R = 2,750.00'	PI Sta 12+50.75 Δ = 26° 02' 39.7" (LT) D = 9° 30' 45.3" L = 273.79' T = 139.30' R = 602.32'	PI Sta 13+96.26 Δ = 6° 12' 26.3" (RT) D = 2° 17' 28.7" L = 270.91' T = 135.59' R = 2,500.58'
-Y1-	-Y2-		
PI Sta 10+75.77 Δ = 15° 26' 55.6" (RT) D = 10° 15' 26.6" L = 150.61' T = 75.77' R = 558.58'	PI Sta 11+36.80 Δ = 12° 22' 22.8" (LT) D = 5° 05' 34.6" L = 242.94' T = 121.95' R = 1,125.00'	PI Sta 13+96.26 Δ = 6° 12' 26.3" (RT) D = 2° 17' 28.7" L = 270.91' T = 135.59' R = 2,500.58'	

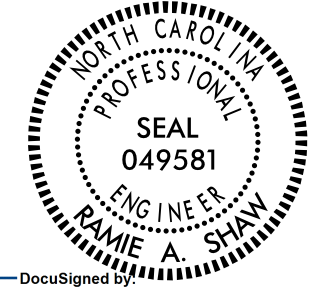
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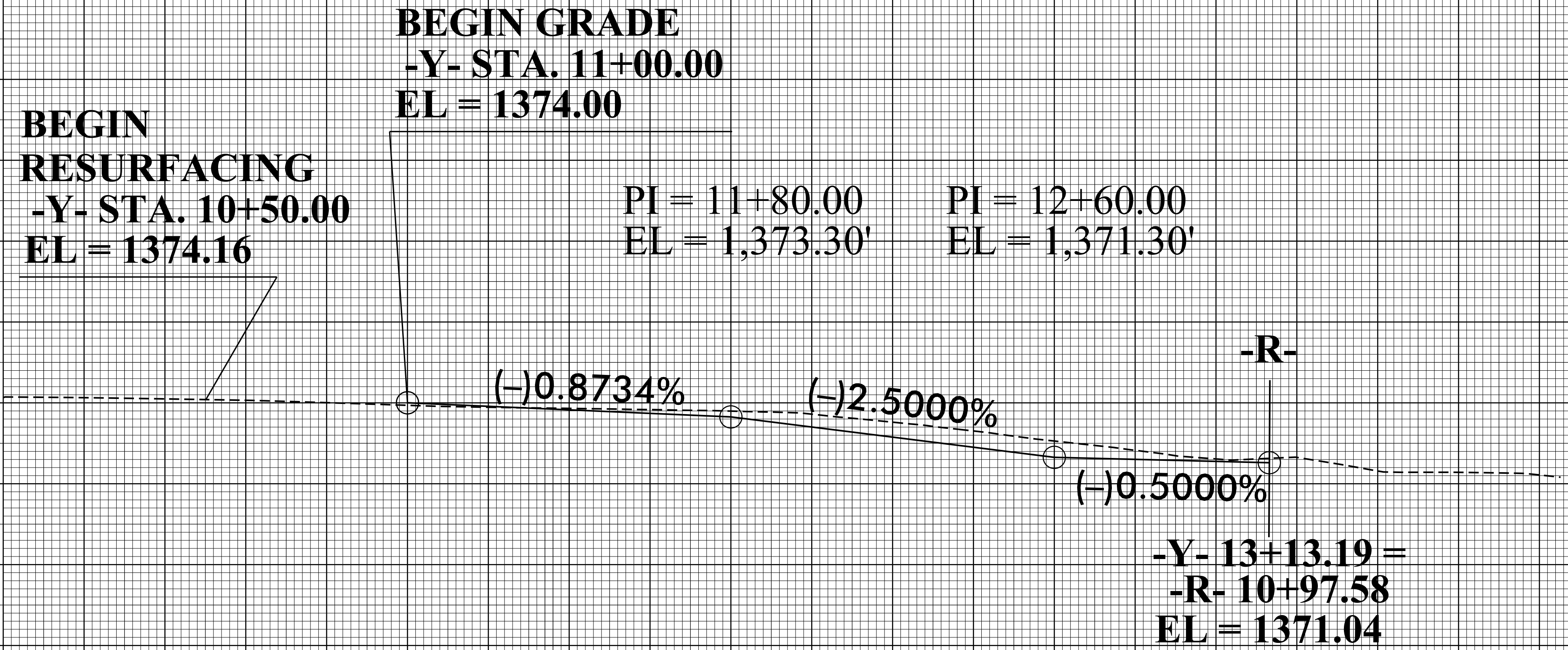
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\$\$\$\$\$USE ENVELOPE\$\$\$\$\$

PROJECT REFERENCE NO.		SHEET NO.	
47754		5	
ROADWAY DESIGN ENGINEER			
DocuSign Pamie A. Shaw 6/2021			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



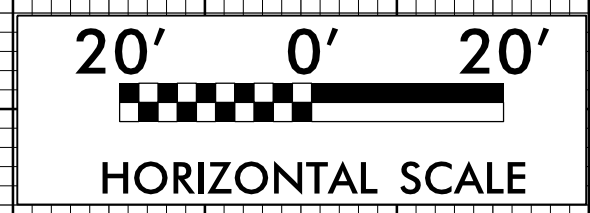
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PROJECT REFERENCE NO. 47754		SHEET NO. 6
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DocuSigned by Pamie A. Shaw 3/6/2021		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

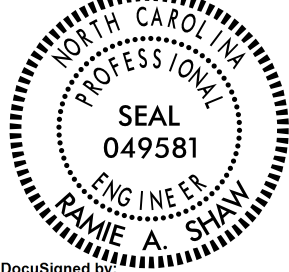
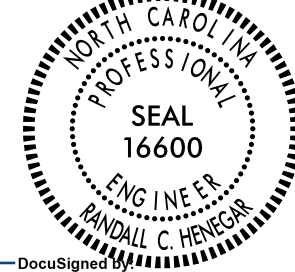


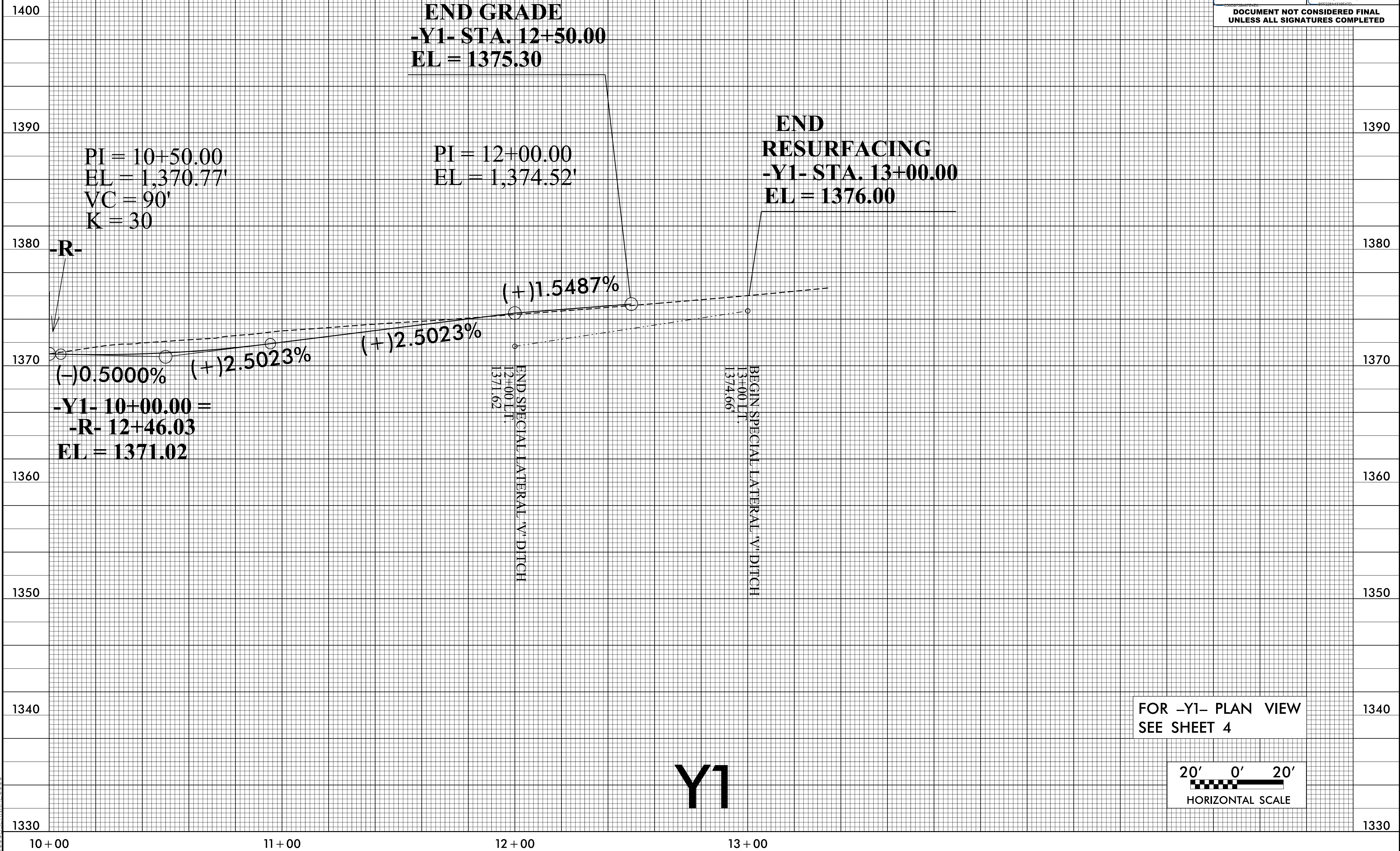
FOR -Y- PLAN VIEW
SEE SHEET 4

Y

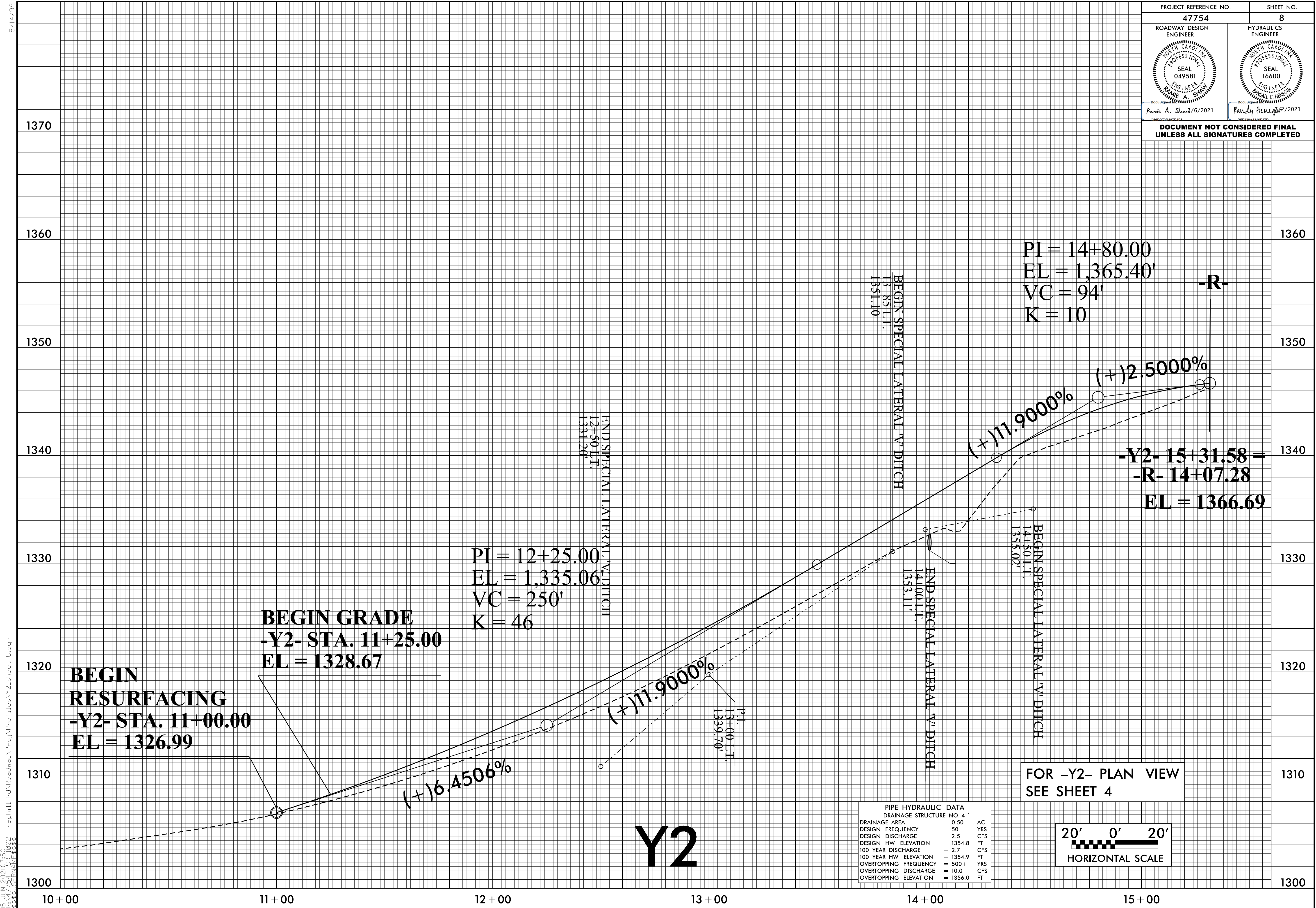


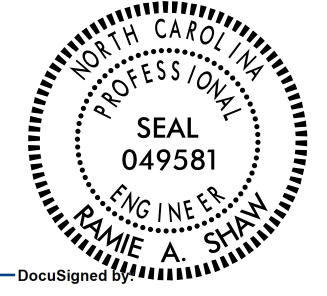
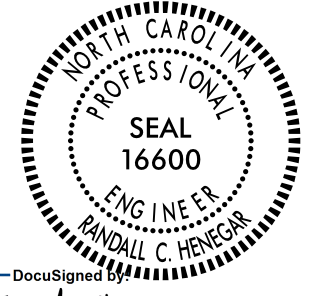
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PROJECT REFERENCE NO. 47754		SHEET NO. 7
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		
DocuSigned by: Pamie A. Shaw 3/6/2021		DocuSigned by: Randy Hinegar 2/2/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



5/14/99
15-JUN-2021 07:50
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PROJECT REFERENCE NO. 47754		SHEET NO. 8
ROADWAY DESIGN ENGINEER  Pamie A. Shaw DocuSigned by: Pamie A. Shaw 2021.06.02 10:16:45		HYDRAULICS ENGINEER  Randy H. Hargis DocuSigned by: Randy H. Hargis 2021.06.02 10:16:45
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

8/17/99

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TIP PROJECT: 47754

CONTRACT: DK00301

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

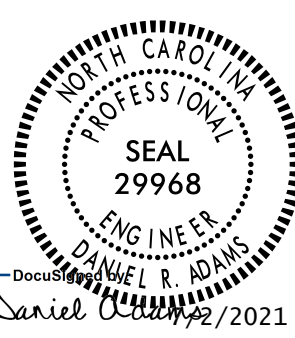
PAVEMENT MARKING PLAN
WILKES COUNTY

LOCATION: SR 1002 (TRAPHILL ROAD)

PROJECT REFERENCE NO.
47754

SHEET NO.
PMP-1

TRAFFIC
ENGINEER



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – PROJECT SERVICES UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.	TITLE
1205.01	PAVEMENT MARKINGS – LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS – TWO-LANE AND MULTI-LANE ROADWAYS
1205.08	PAVEMENT MARKINGS – SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS – PAINTED ISLANDS

PAVEMENT MARKING SCHEDULE

QUANTITY	DESCRIPTION
2276 L.F.	THERMOPLASTIC WHITE (4", 90 MIL)
1958 L.F.	THERMOPLASTIC YELLOW (4", 90 MIL)
181 L.F.	THERMOPLASTIC WHITE (8", 90 MIL)
103 L.F.	THERMOPLASTIC YELLOW (12", 90 MIL)
54 L.F.	THERMOPLASTIC WHITE (12", 90 MIL)
53 EA.	THERMOPLASTIC WHITE SYMBOL (24"x 36"TRIANGLE, 90 MIL)

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|---------------|
| ALL | THERMOPLASTIC | SNOW PLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

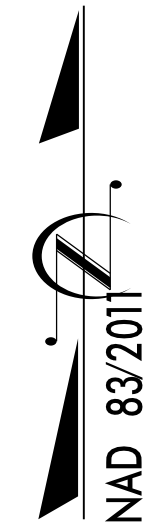
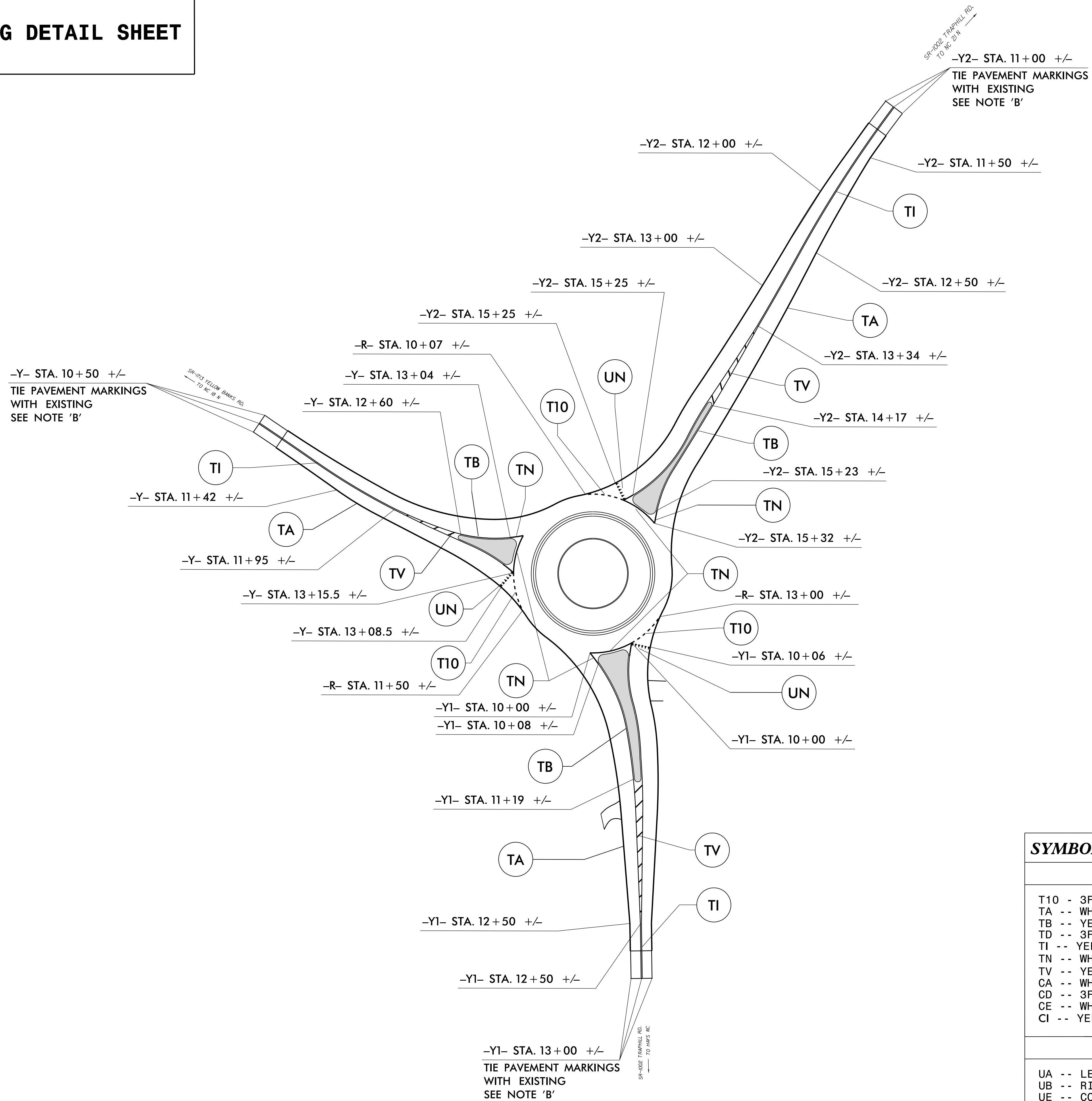
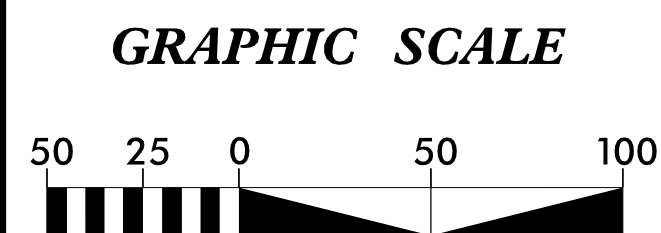
INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2	PAVEMENT MARKING DETAIL SHEET

8/17/99

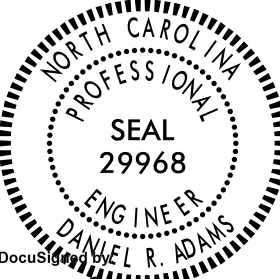
REVISIONS

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\$\$\$\$\$!SERNAME\$\$\$\$\$



PROJECT REFERENCE NO.	SHEET NO.
47754	PMP-2

TRAFFIC
ENGINEER



Document No. _____
Daniel Adams 12/31/2021

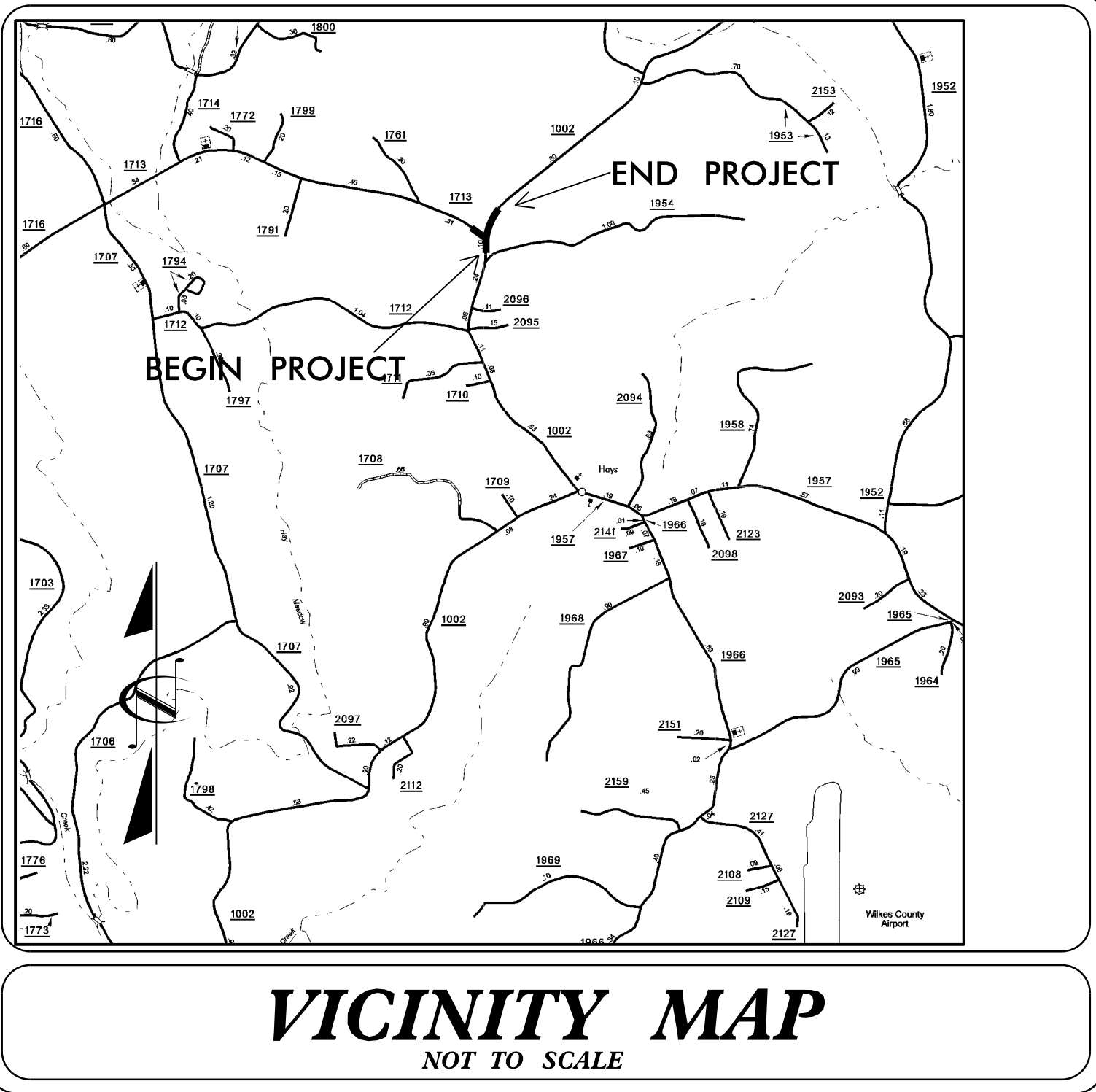
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

<i>SYMBOL AND PAVEMENT MARKING LEGEND</i>	
PAVEMENT MARKING LINES	
T10	- 3FT-3FT/SP WHITE MINISKIP(12",90MIL)THERMOPLASTIC
TA	-- WHITE EDGELINE (4",90MIL)THERMOPLASTIC
TB	-- YELLOW EDGELINE (4",90MIL)THERMOPLASTIC
TD	- 3FT-9FT/SP WHITE MINISKIP(4",90MIL)THERMOPLASTIC
TI	-- YELLOW DOUBLE CENTER(4",90MIL)THERMOPLASTIC
TN	-- WHITE GORELINE (8",90MIL)THERMOPLASTIC
TV	-- YELLOW DIAGONAL (12",90MIL)THERMOPLASTIC
CA	-- WHITE EDGELINE (4")COLD APPLIED, TYPE II
CD	-- 3FT-9FT/SP WHITE MINISKIP(4")COLD APPLIED, TYPE II
CE	-- WHITE SOLID LANE LINE(4")COLD APPLIED, TYPE II
CI	-- YELLOW DOUBLE CENTER(4")COLD APPLIED, TYPE II
PAVEMENT MARKING SYMBOLS	
UA	-- LEFT TURN ARROW(90MIL)THERMOPLASTIC
UB	-- RIGHT TURN ARROW(90MIL)THERMOPLASTIC
UE	-- COMBINATION STRAIGHT AND RIGHT TURN ARROW(90MIL)THERMOPLASTIC
UI	-- ONLY ALPHANUMERIC CHARACTERS(120MIL)
UN	-- 24" YIELD LINE TRIANGLE (90MIL) THERMOPLASTIC

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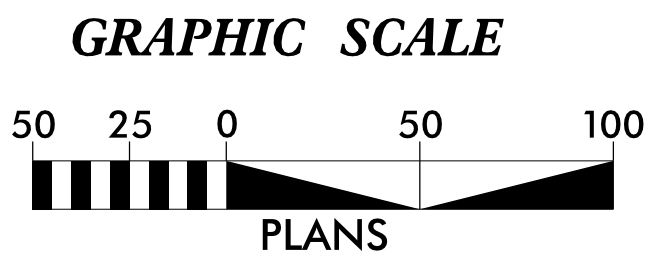
CONTRACT: DK00301

TIP PROJECT: 47754



METHOD OF CLEARING: TYPE II

THIS PROJECT IS NOT WITHIN
ANY MUNICIPAL BOUNDRIES

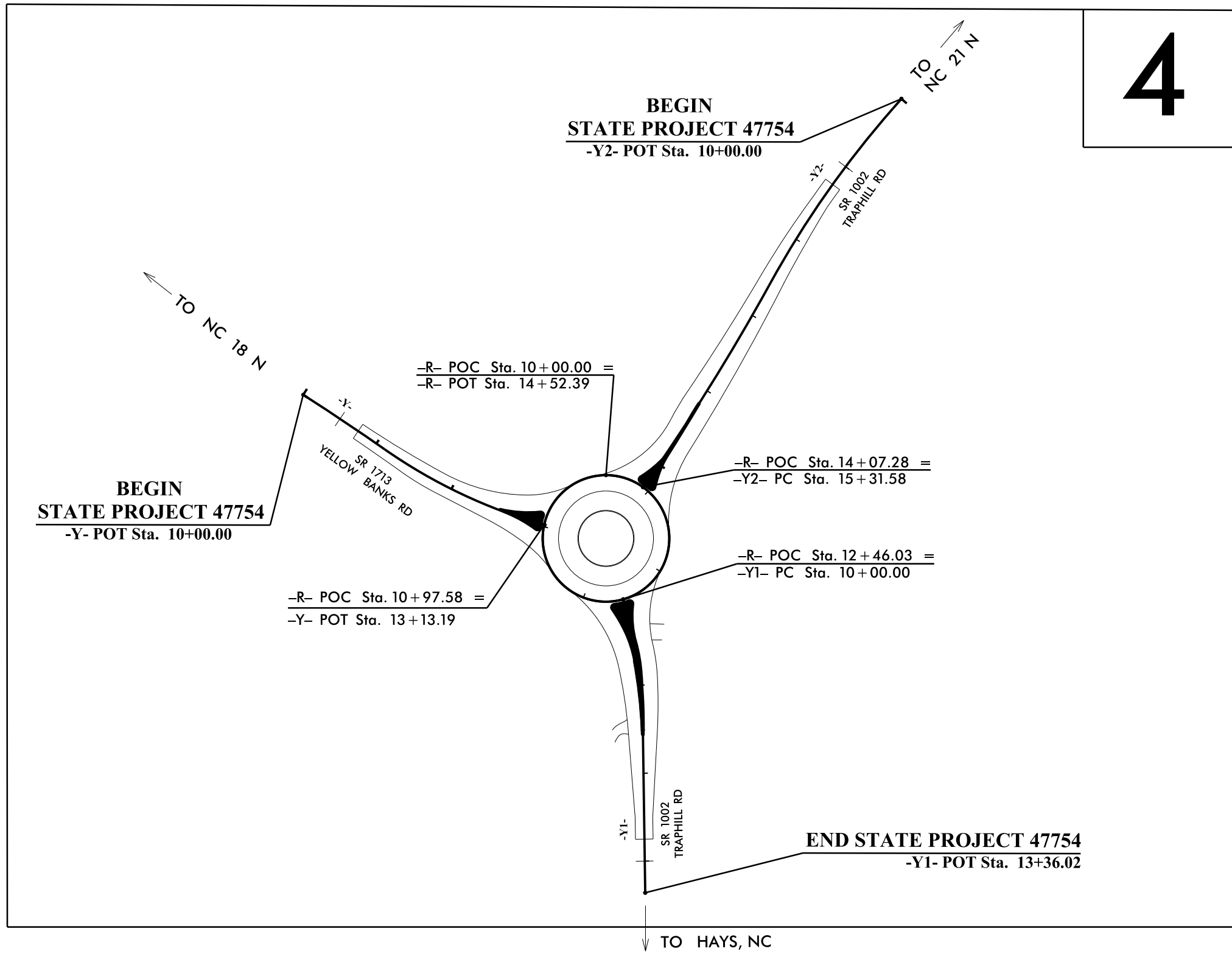


THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

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

LOCATION: INTERSECTION AT SR 1002 (TRAPHILL RD.)
AND SR 1713 (YELLOW BANKS RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
CURB & GUTTER AND PAVEMENT MARKINGS

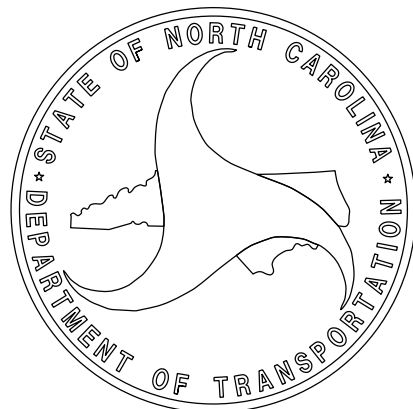


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47754	EC-1	7
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch.....	TSO
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.....	III III III
1630.02	Silt Basin Type B.....	III III III
1633.01	Temporary Rock Silt Check Type-A.....	III III III
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM).....	III III III
1633.02	Temporary Rock Silt Check Type-B.....	III III III
	Wattle / Coir Fiber Wattle.....	III III III
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM).....	III III III
1634.01	Temporary Rock Sediment Dam Type-A.....	III III III
1634.02	Temporary Rock Sediment Dam Type-B.....	III III III
1635.01	Rock Pipe Inlet Sediment Trap Type-A.....	III III III
1635.02	Rock Pipe Inlet Sediment Trap Type-B.....	III III III
1630.04	Stilling Basin.....	III III III
1630.06	Special Stilling Basin.....	III III III
	Rock Inlet Sediment Trap:	III III III
1632.01	Type A.....	III III III
1632.02	Type B.....	III III III
1632.03	Type C.....	III III III
	Skimmer Basin.....	III III III
	Tiered Skimmer Basin.....	III III III
	Infiltration Basin.....	III III III

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



Prepared In the Office of:
DIVISION OF HIGHWAYS
801 STATESVILLE ROAD, NORTH WILKESBORO,
N.C. 28659
2018 STANDARD SPECIFICATIONS

Designed by:
Greg Kirby **#3498**
NAME LEVEL III CERTIFICATION NO.

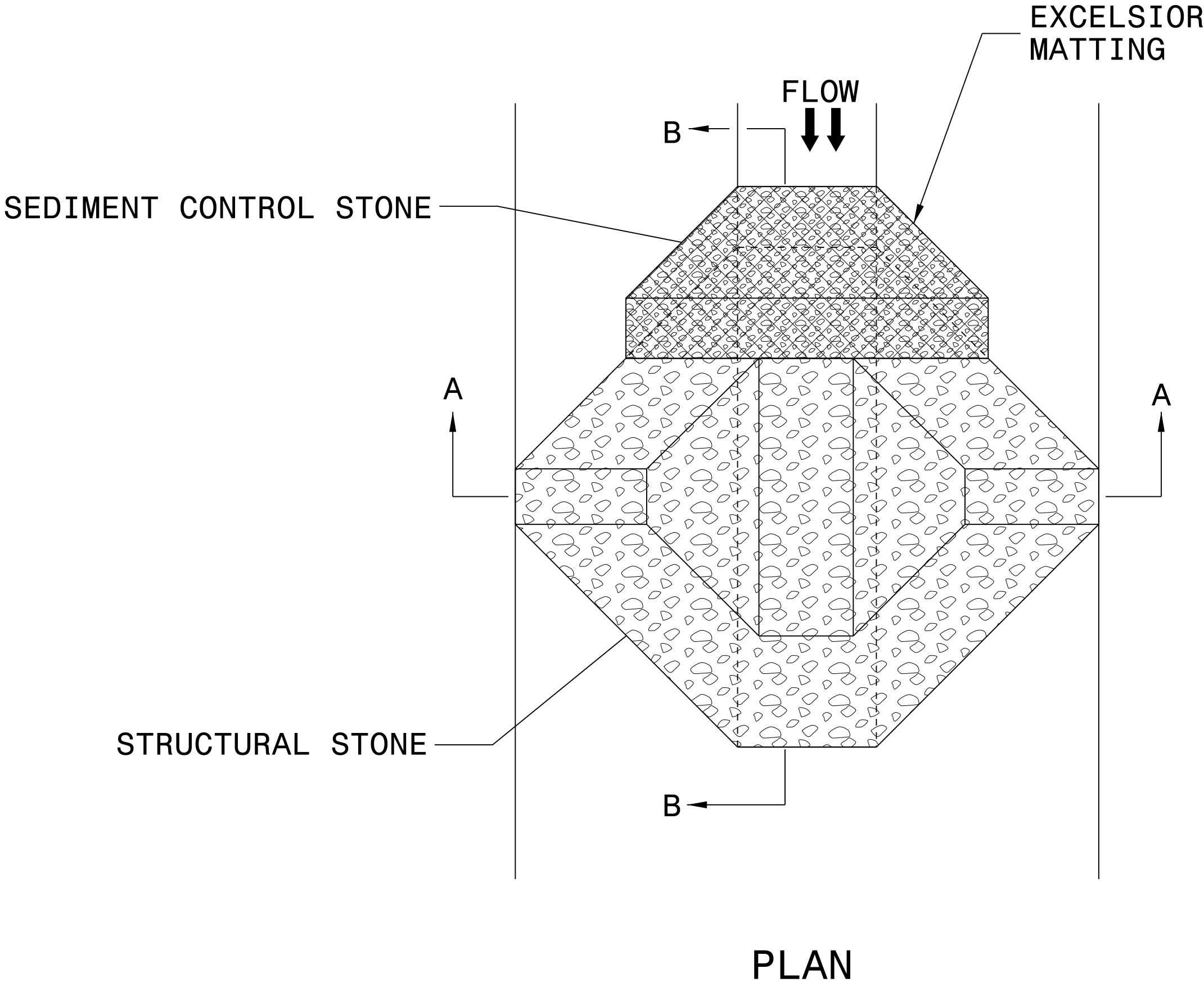
Roadway Standard Drawings

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 A	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 Jaffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

PROJECT REFERENCE NO.	SHEET NO.
47754	EC-2
R/W SHEET NO.	



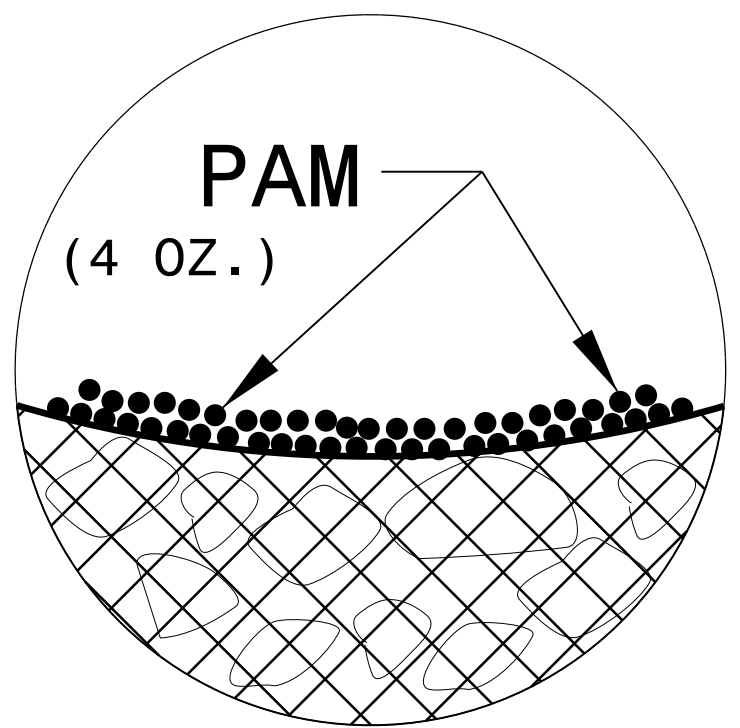
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

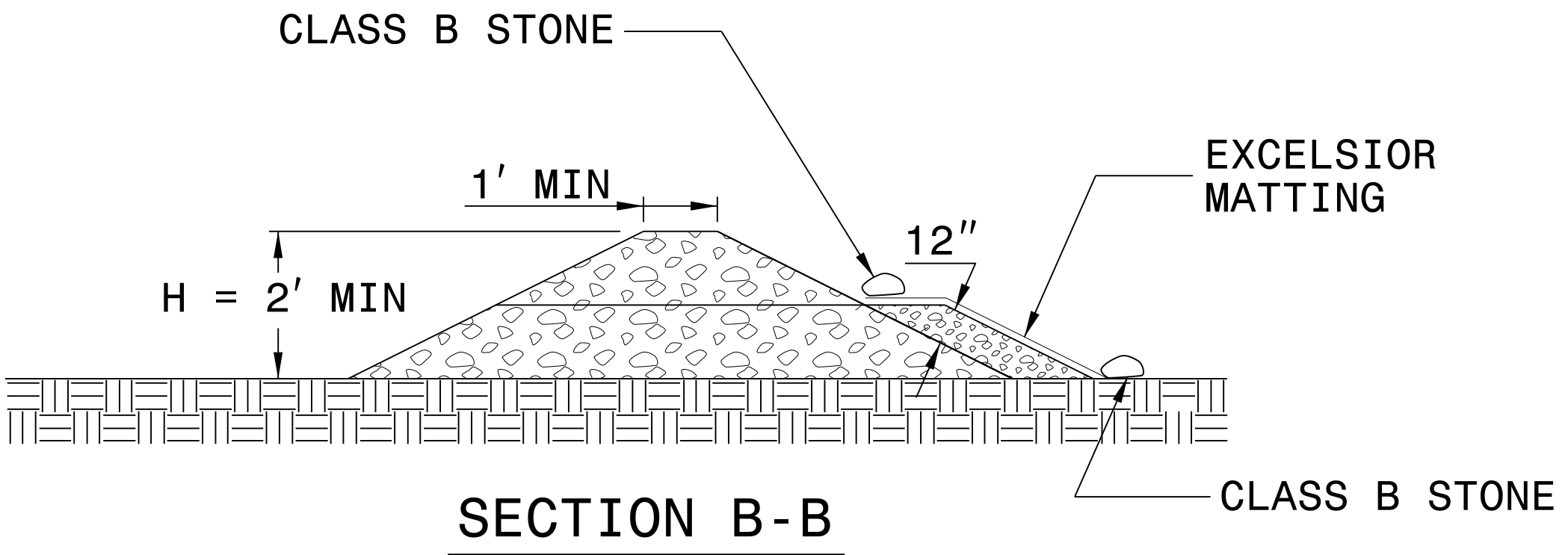
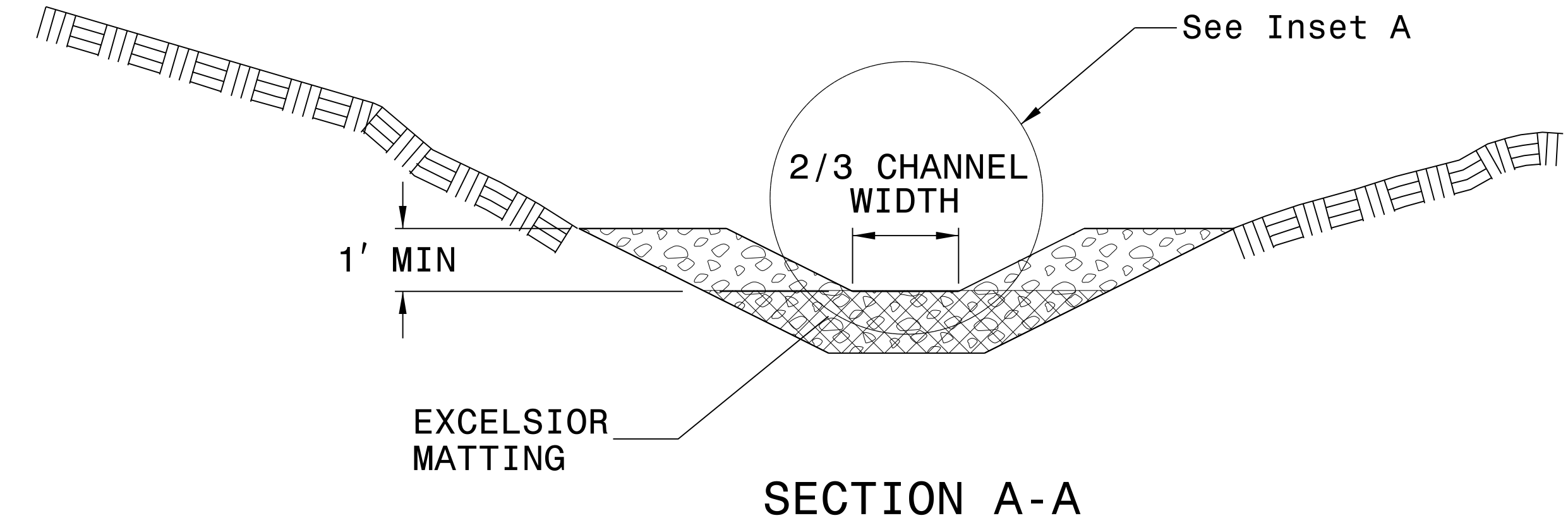
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



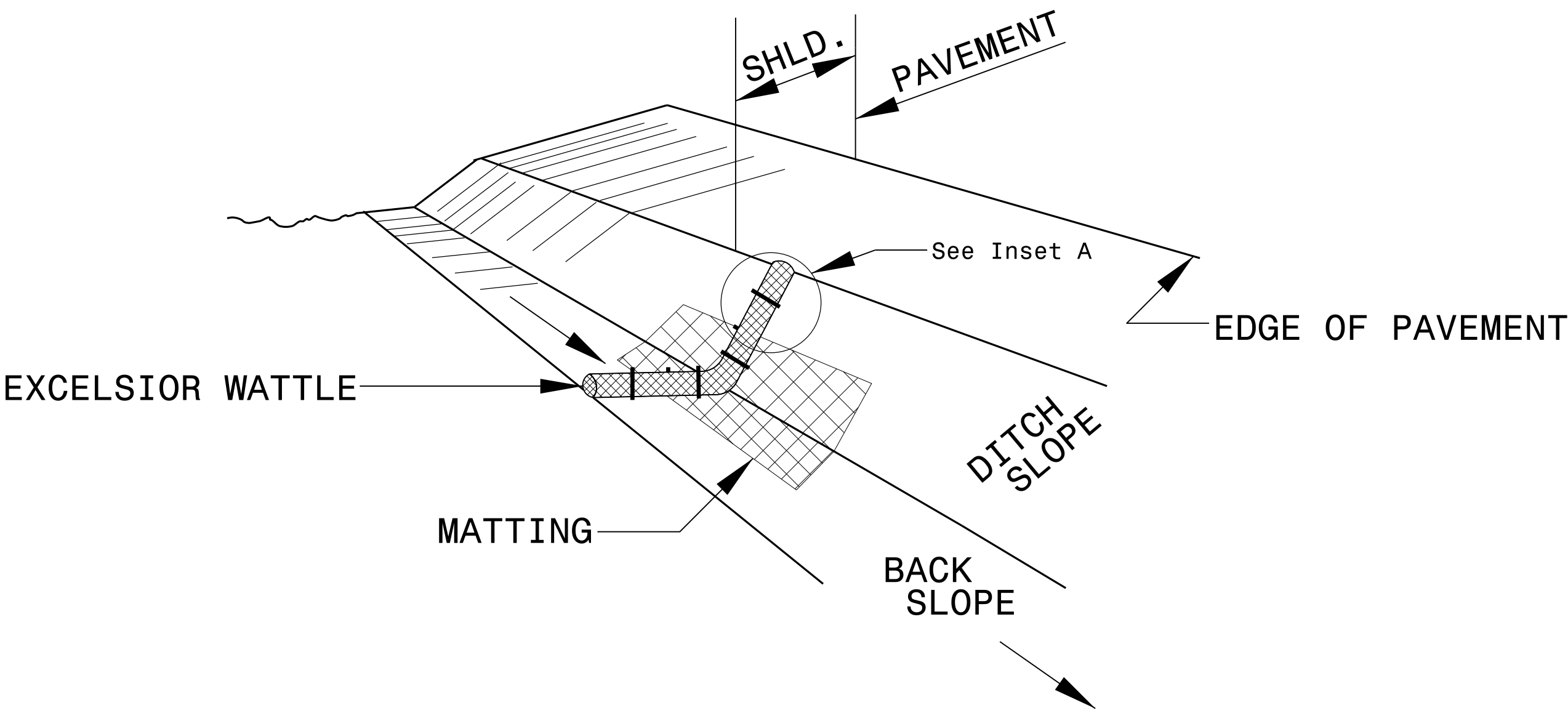
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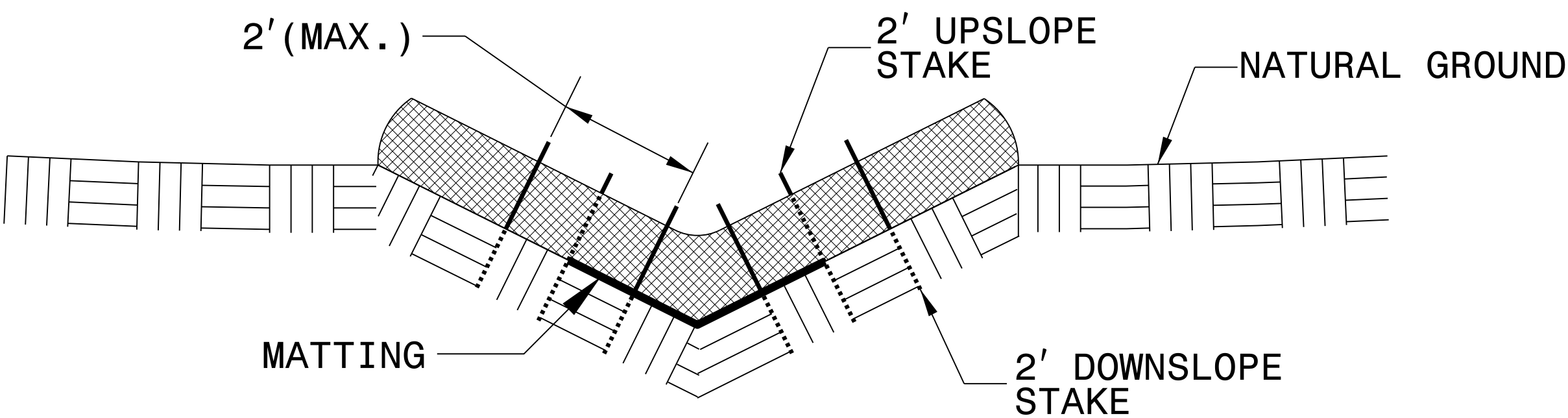
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WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

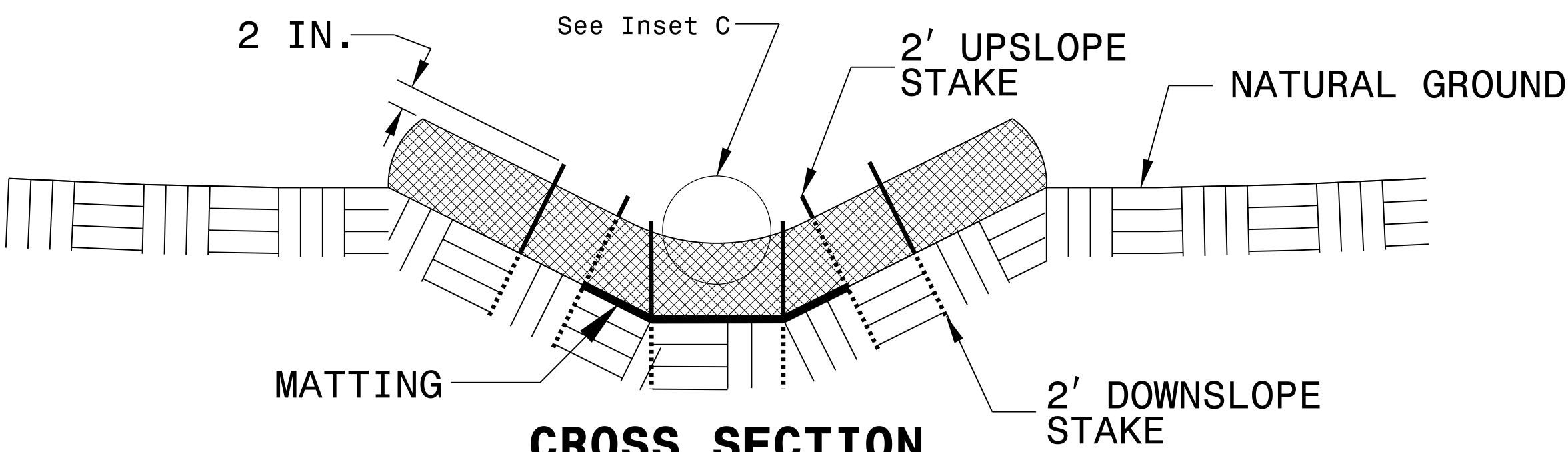
PROJECT REFERENCE NO.	SHEET NO.
47754	EC-2A
R/W SHEET NO.	



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

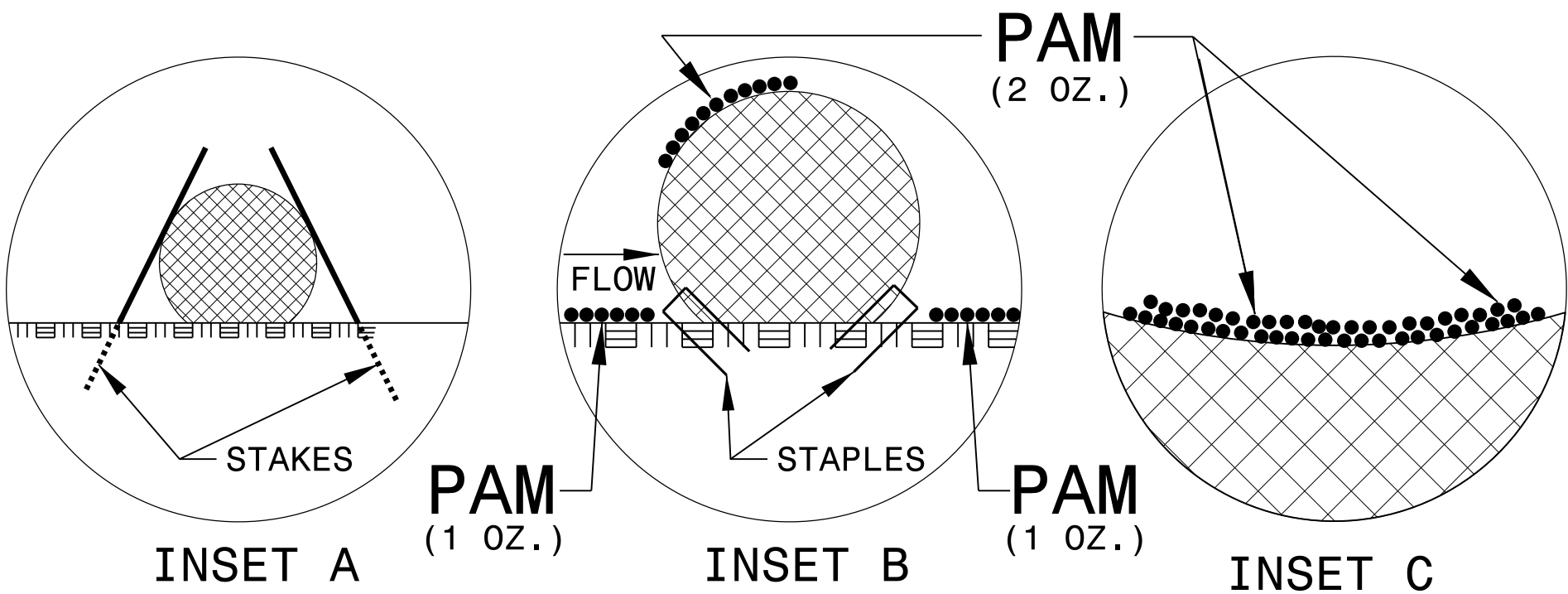
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

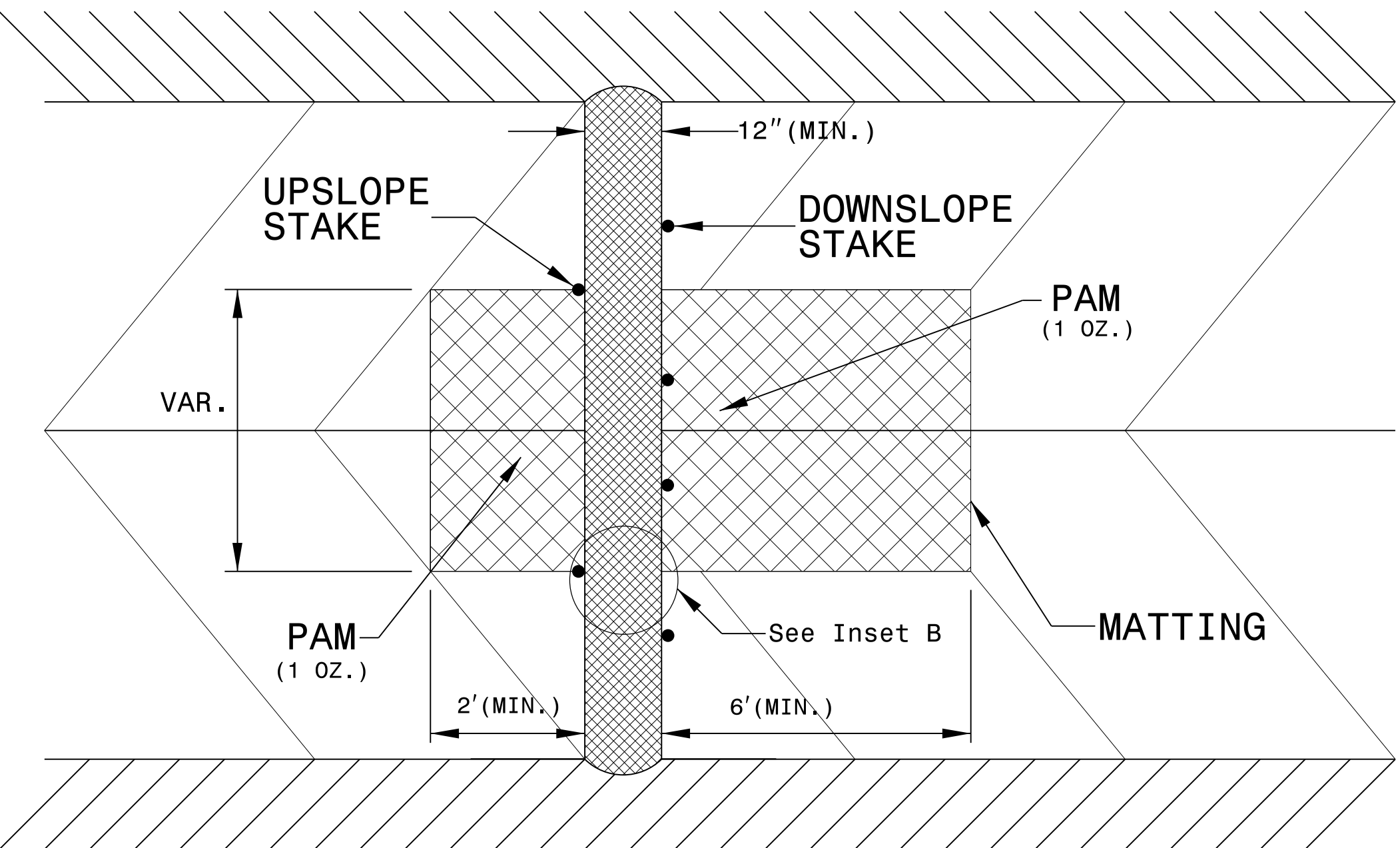
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



FLOW →



TOP VIEW

SION CONTROL PERMANENT SOLUTION

	FROM	TO		
--	------	----	--	--

[illegible]

	FROM	TO		
--	------	----	--	--

[illegible]

47754	EC-3
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47754	EC-3
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
47754	EC-3A

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, 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.

8/17/99

15-JUN-2021 07:50
R:\47754\SP1002\Trophill Rd\Roadway\Proj\Erosion_Control\47754_ddc-EC4.dgn
###USER NAME###

REVISIONS

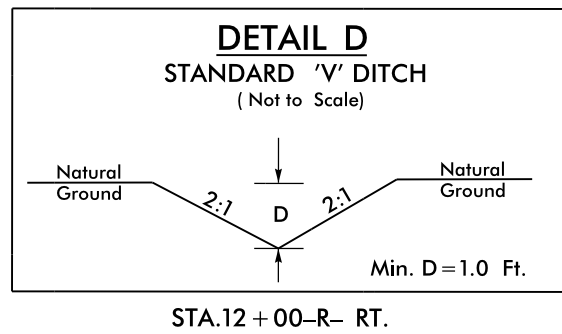
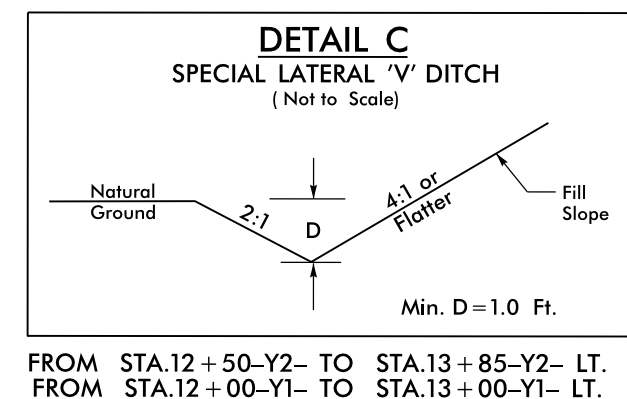
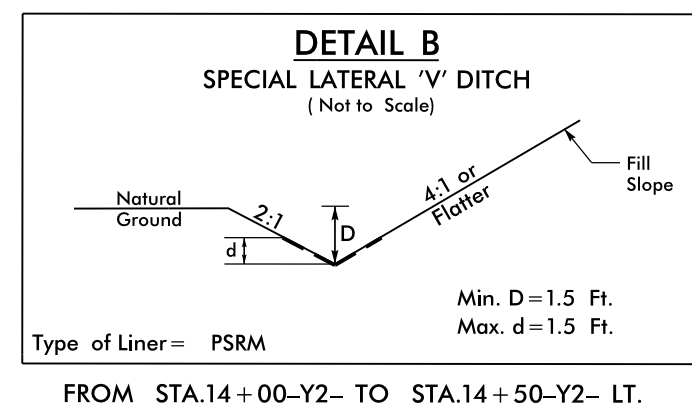
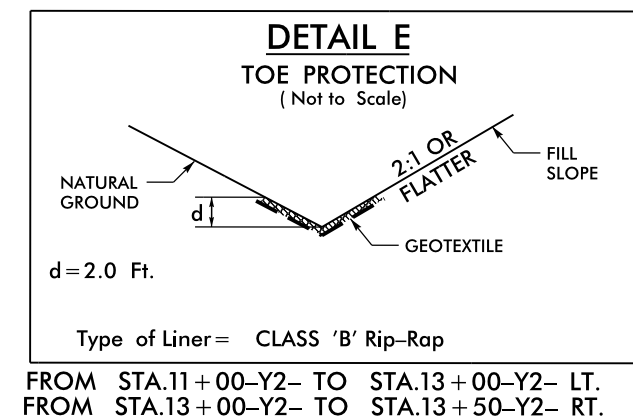
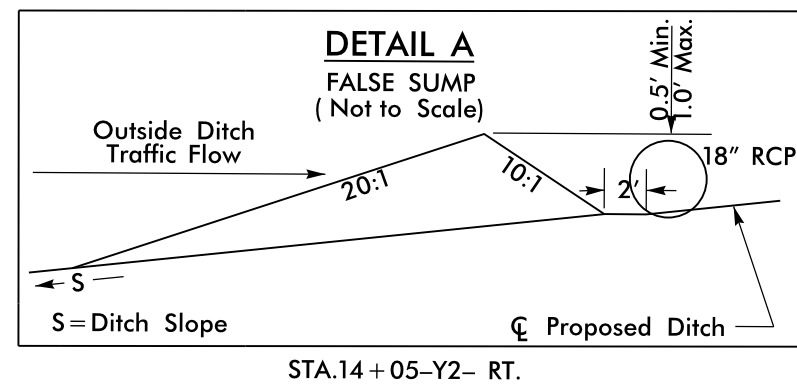
BEGIN STATE PROJECT 47754
-Y- POT Sta. 10+00.00

BEGIN STATE PROJECT 47754
-Y2- POT Sta. 10+00.00

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
47754	EC4/CONST.4
R/W SHEET NO.	

NC GRID
NAD 83/2011



INSTALL DRIVEWAY PIPE DURING
CLEARING & GRUBBING PHASE

NOTE:

PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:

PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

END STATE PROJECT 47754
-Y1- POT Sta. 13+36.02

END CONSTRUCTION
-Y1- Sta. 12+75.00
END RESURFACING
-Y1- Sta. 13+00.00

1 DEBBIE G. STEELMAN
DB 1020 PG 153
DB 1020 PG 154
PB 3 PG 145

5 WARREN STEVE SHEW
WANDA BYERLY SHEW
DB 721 PG 687

4 STONE MOUNTAIN
BAPTIST ASSOCIATION
DB 595 PG 684

2 NORTHWIND PROPERTIES OF WILK
DB 844 PG 162
PB 9 PG 470

3 EVERETTE MONROE HUFFMAN, III
AMANDA S. HUFFMAN
DB 1242 PG 90

8/17/99

15-JUN-2021 07:50
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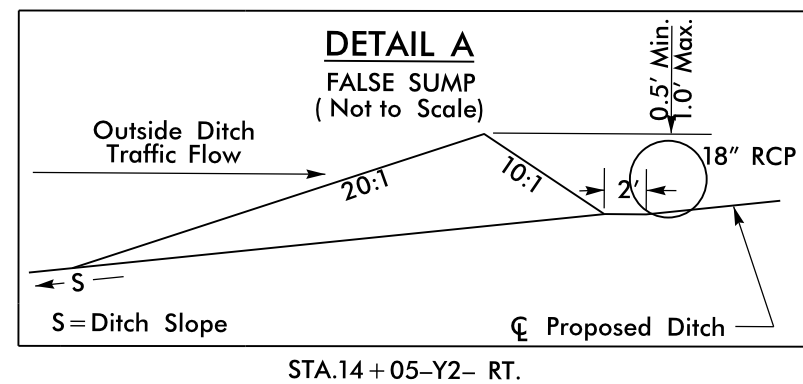
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
47754	EC5/CONST.4
RW SHEET NO.	

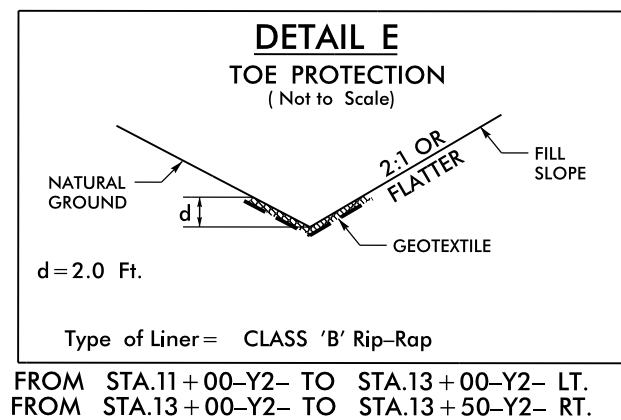
NC GRID
NAD 83/2011

BEGIN STATE PROJECT 47754

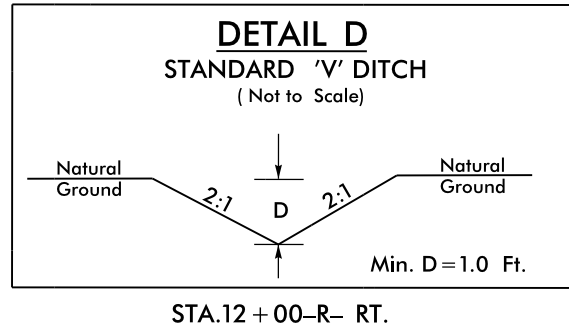
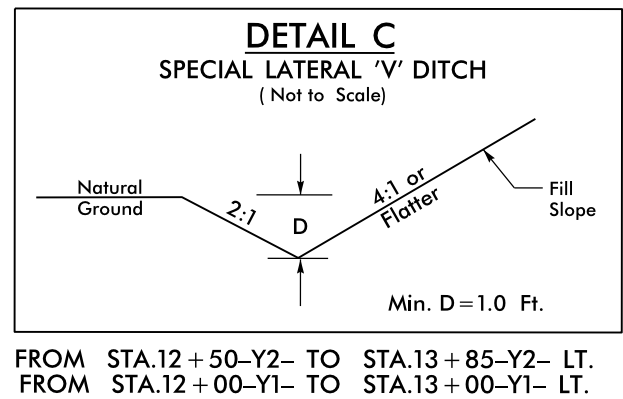
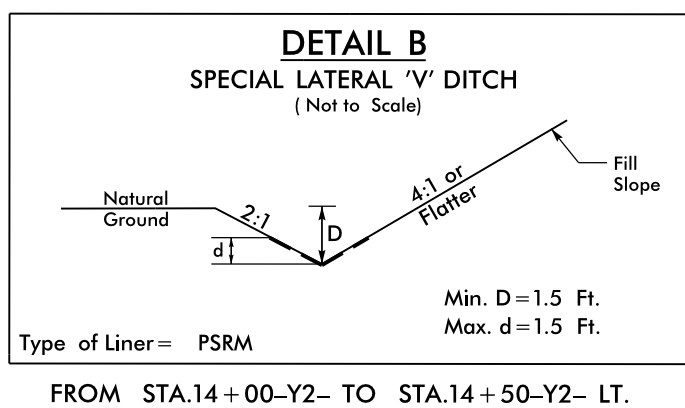
-Y2- POT Sta. 10+00.00



Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 11+50 to Sta. 13+00 RT



Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 11+50 to Sta. 12+75 LT



BEGIN STATE PROJECT 47754

-Y- POT Sta. 10+00.00

2 NORTHWIND PROPERTIES OF WILK
DB 844 PG 162
PB 9 PG 470

3 EVERETTE MONROE HUFFMAN, III
AMANDA S. HUFFMAN
DB 1242 PG 90

4 STONE MOUNTAIN
BAPTIST ASSOCIATION
DB 595 PG 684

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

END STATE PROJECT 47754

-Y1- POT Sta. 13+36.02

3/5/14

S:\Traffic\Jonesville-Roundabout\Roadway\Project\JONESVILLE_Sgn_Sgn_Sign.dgn
RUSTESKAL

TIP PROJECT: 47754

CONTRACT: DK00301

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

SIGNING PLAN

WILKES COUNTY

LOCATION: SR 1002 (TRAPHILL ROAD)

TIP NO.

47754

SHEET NO.

SIGN-1

APPROVED: _____

DATE: _____

SEAL

DocuSigned by:
Daniel Adams
CAF2103E030040E...

PROFESSIONAL SEAL
29968
ENGINEER
DANIEL R. ADAMS

7/2/2021

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – PROJECT SERVICES UNIT – 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.	TITLE
910.40	SINGLE LANE ROUNDABOUT SIGNING
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) SIGNS FURNISHED BY STATE.
- B) ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- C) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- D) ALL EXISTING SIGNS ON 'U' CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- E) THE BACKGROUND FOR TYPE 'E' AND 'F' SIGNS SHALL BE TYPE 'C' REFLECTIVE SHEETING.

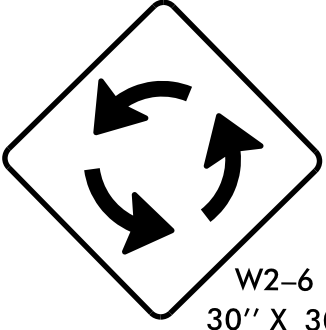
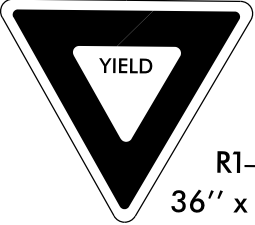
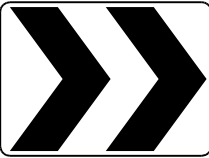
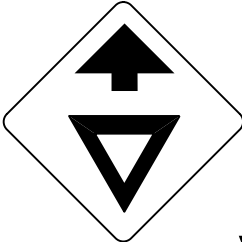
PROJECT NOTES

1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	STOCKPILE AND RELOCATE ON NEW SUPPORT
3	SEE STD DGN 910.40 FOR ALL SIGN SPACINGS

INDEX

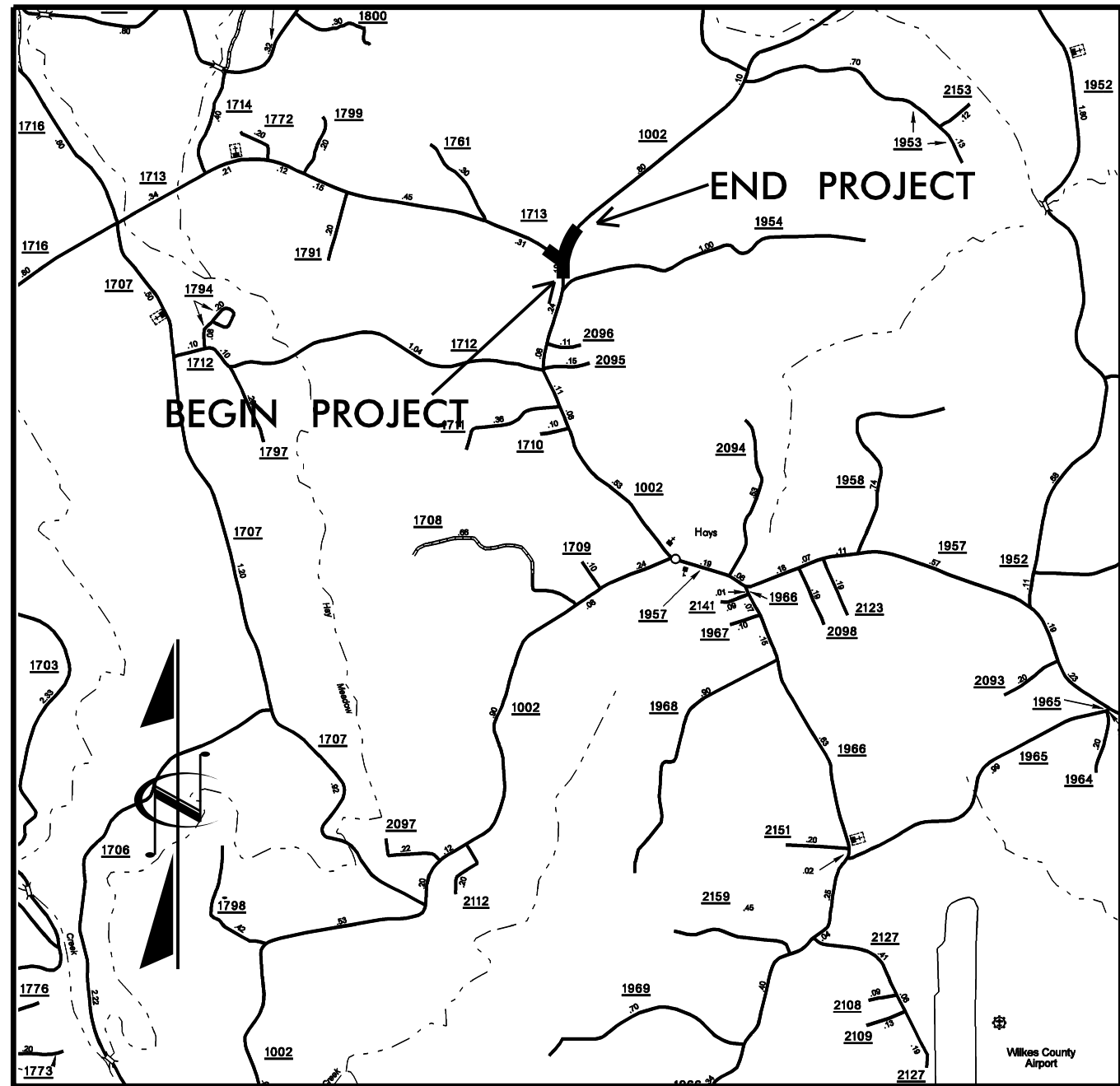
SHEET NO.	DESCRIPTION
SIGN-1	SIGNING PLAN TITLE SHEET
SIGN-2	TYPE 'E, F' SIGNS
SIGN-3	SIGN DETAIL SHEET

S:\Traffic\Jonesville-Roundabout\Roadway\Propo\JONESVILLE_Sgn_Sgn_Sign.dgn
RUSTESKAL

401 QUANTITY REQ'D 3  W2-6 30" X 30" ONE "U" POST PER SIGN		406 QUANTITY REQ'D 1 TRAPHILL RD. W16-8P VAR x 8"						TIP NO. 47754 SHEET NO. SIGN-2 APPROVED: _____ DATE: _____ SEAL DocuSigned by: Daniel Adams CAF2103E09D040E NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 29968 DANIEL R. ADAMS 7/2/2021	
402 QUANTITY REQ'D 6  R1-2 36" x 36" x 36" ONE "U" POST PER SIGN		407 QUANTITY REQ'D 1 YELLOWBANKS RD. W16-8P VAR x 8"							
403 QUANTITY REQ'D 3  R6-4 30" X 24" ONE "U" POST PER SIGN		408 QUANTITY REQ'D 1 TRAPHILL RD. YELLOWBANKS RD.  W16-8AP VAR x 15"							
404 QUANTITY REQ'D 3  R4-7 24" X 30" ONE "U" POST PER SIGN		409 QUANTITY REQ'D 2 SPEED LIMIT 55 R2-1 24" X 30" ONE "U" POST PER SIGN							
405 QUANTITY REQ'D 3  W3-2 30" X 30" ONE "U" POST PER SIGN									

CONTRACT: TIP PROJECT: 47754

CONTRACT: TIP PROJECT: 47754



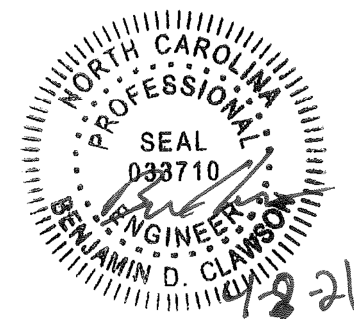
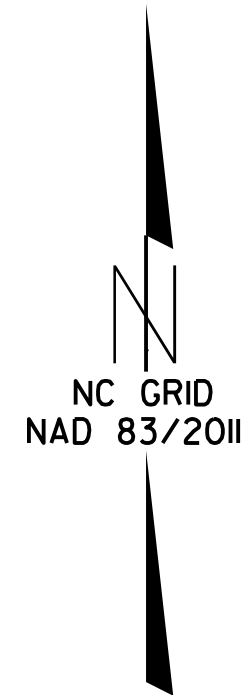
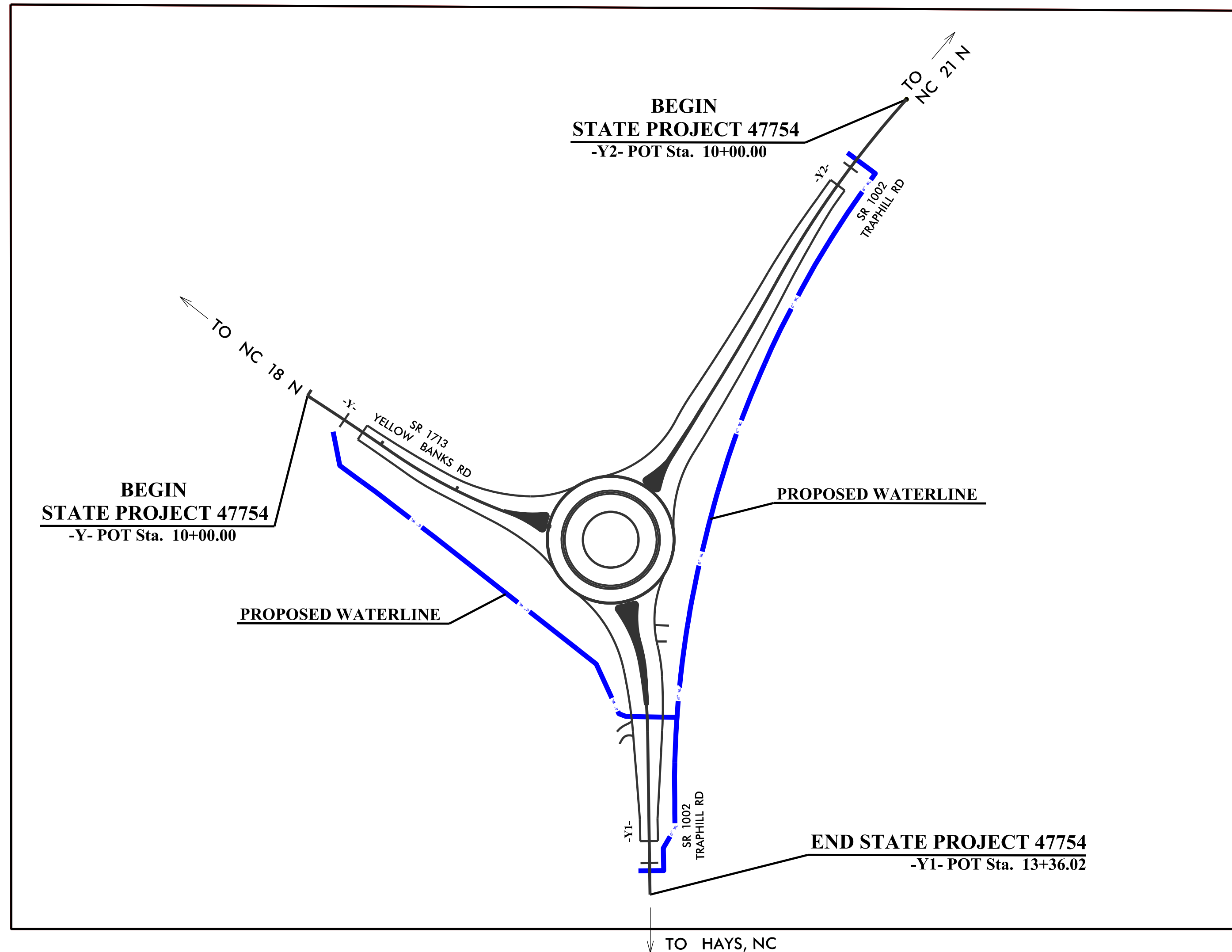
VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

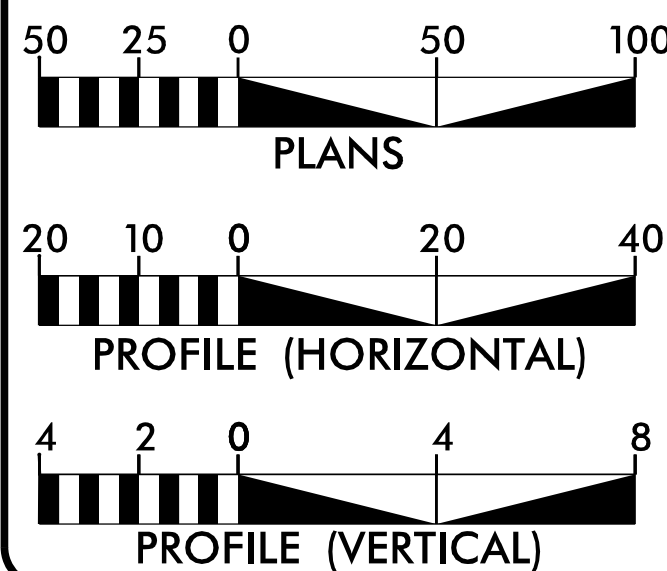
WILKES COUNTY

LOCATION: SR 1002 (TRAPHILL ROAD)
TYPE OF WORK: UTILITY RELOCATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47754	UC-1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	



GRAPHIC SCALES

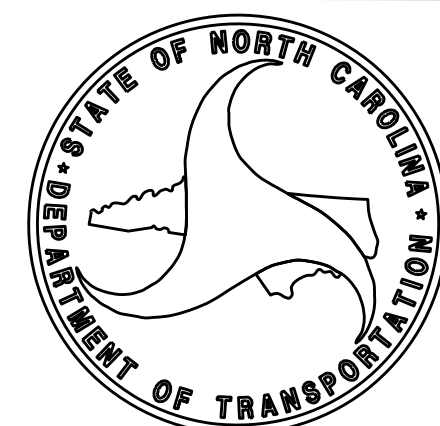


INDEX OF SHEETS

SHEET No.	DESCRIPTION
UC-1	TITLE SHEETS
UC-2	PLAN SHEET SYMBOLS
UC-3A - UC-3B	GENERAL NOTES AND DETAILS
UC-4	PLAN AND PROFILE

UTILITY OWNERS ON PROJECT

BLUE RIDGE WATER ASSOCIATION



Ben Clawson
PROJECT DESIGN ENGINEER (MESCO)

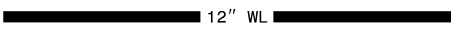
Greg Kirby
NCDOT CONTACT

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

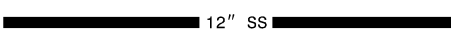
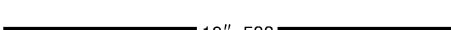
PROJECT REFERENCE NO.	SHEET NO.
TIP 47754	UC-2

UTILITIES PLAN SHEET SYMBOLS

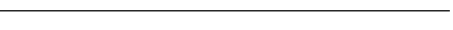
PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

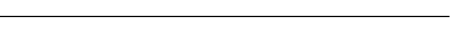
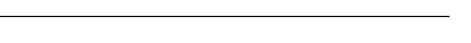
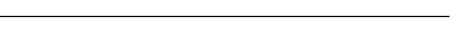
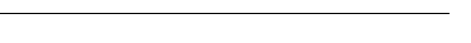
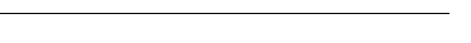
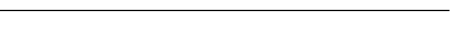
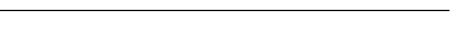
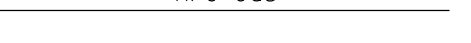
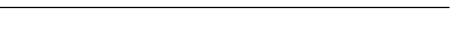
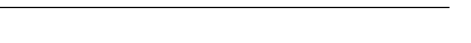
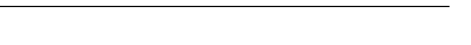
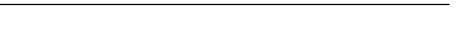
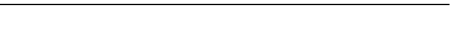
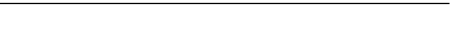
PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

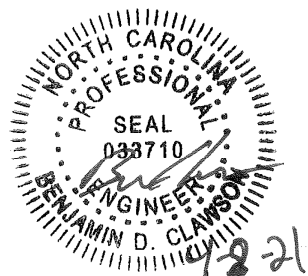
Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

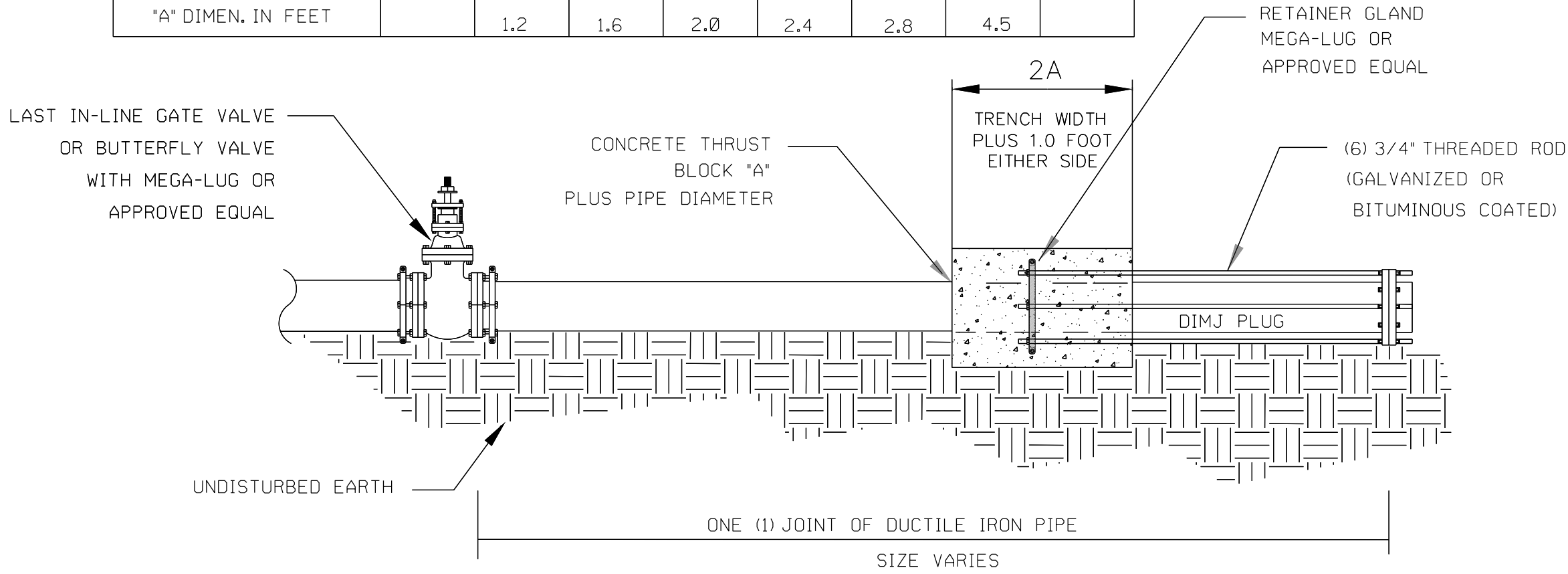
Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

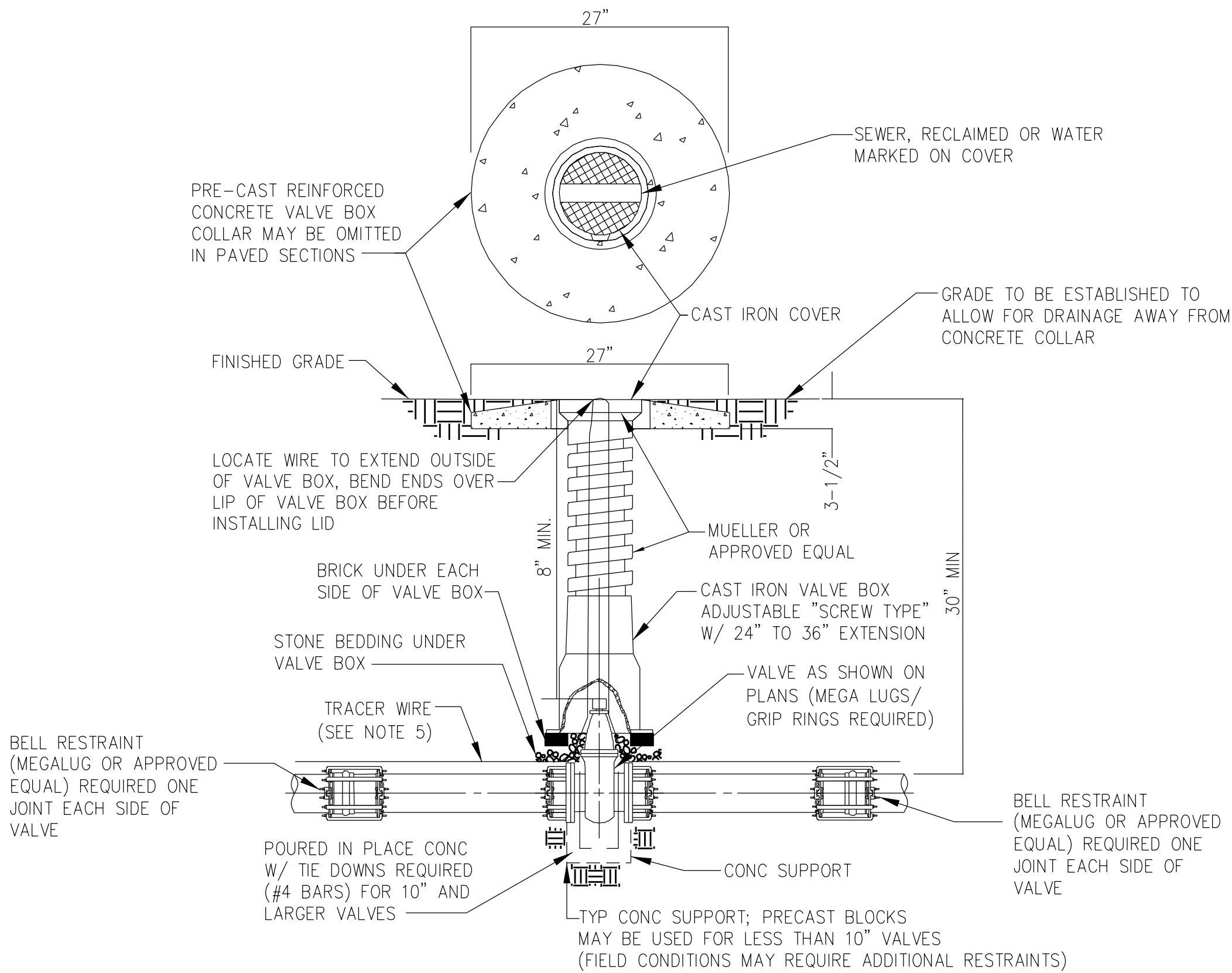
*For Existing Utilities
Utility Line Drawn from Record (Type as Shown)
Designated Utility Line (Type as Shown)



PIPE SIZE (NOMINAL DIAMETER IN INCHES)							
	6	8	10	12	16	24	
A DIMEN. IN FEET	1.2	1.6	2.0	2.4	2.8	4.5	



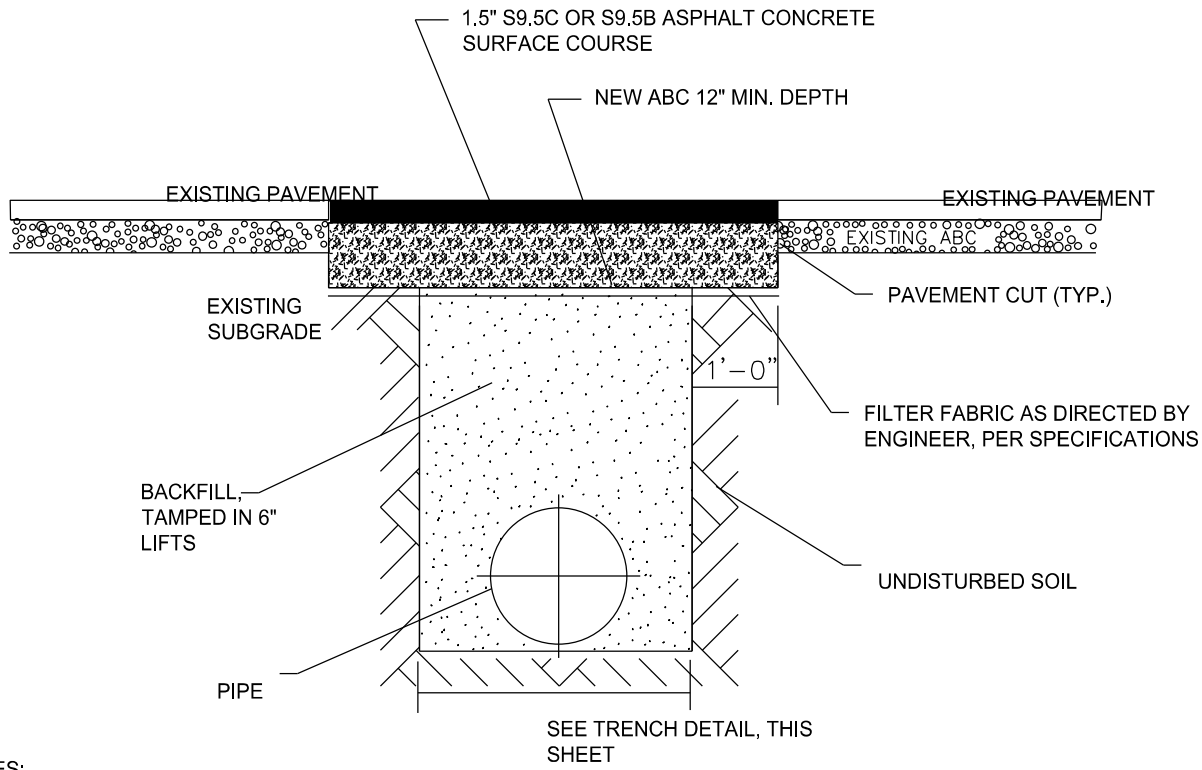
- ALL FITTINGS MUST BE RESTRAINED WITH RETAINER GLAND, MEGA-LUG THRUST BLOCKS OR AN APPROVED EQUAL.
 - DIMENSION TABLE GIVEN IS A GUIDE ONLY. ENGINEER SHALL BE RESPONSIBLE TO CALCULATE THRUST BLOCK DIMENSIONS BASED ON ACTUAL SOIL AND OPERATING
 - FITTING JOINTS SHALL BE KEPT FREE OF CONCRETE. A LAYER OF POLYETHYLENE PLASTIC SHALL BE PLACED BETWEEN THE FITTING AND THE CONCRETE.
- END OF LINE PLUG**



- NOTES:
- TOP OF VALVE BOX AND COLLAR SHALL BE PAINTED GREEN FOR SEWER FM, PURPLE FOR RECLAIMED WATER, AND BLUE FOR WATER.
 - EXTENSION STEM WILL BE REQUIRED TO BE WITHIN 2 FEET OF THE SURFACE IF OPERATING NUT WOULD OTHERWISE BE OVER 5 FEET BELOW GRADE. EXTENSIONS SHALL BE PERMANENTLY ATTACHED TO VALVE NUT AND SHALL BE PROVIDED WITH HORIZONTAL SPACERS FOR VERTICAL ALIGNMENT WITHIN THE VALVE BOX.
 - MINIMUM CLEARANCE TO EXTENSION IS 8".
 - WIRE COLORS REQUIRED: SEWER-GREEN/WATER-BLUE/RECLAIMED WATER-PURPLE OR GREEN WITH PURPLE STRIPE
 - 12 GA. COPPERHEAD SUPER FLEX TRACER WIRE OR APPROVED EQUAL.

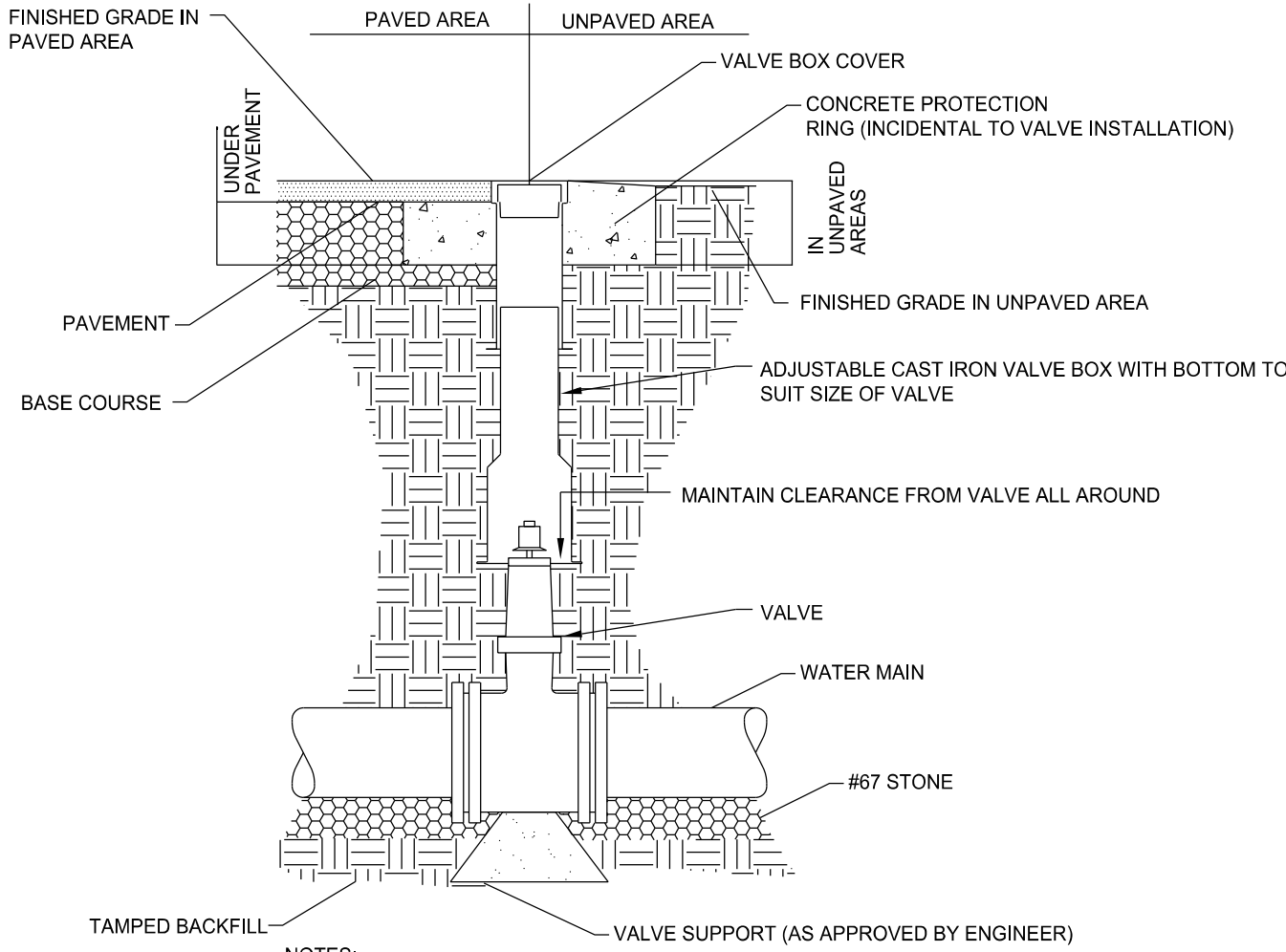
VALVE BOX DETAIL

PROJECT TYPICAL DETAILS



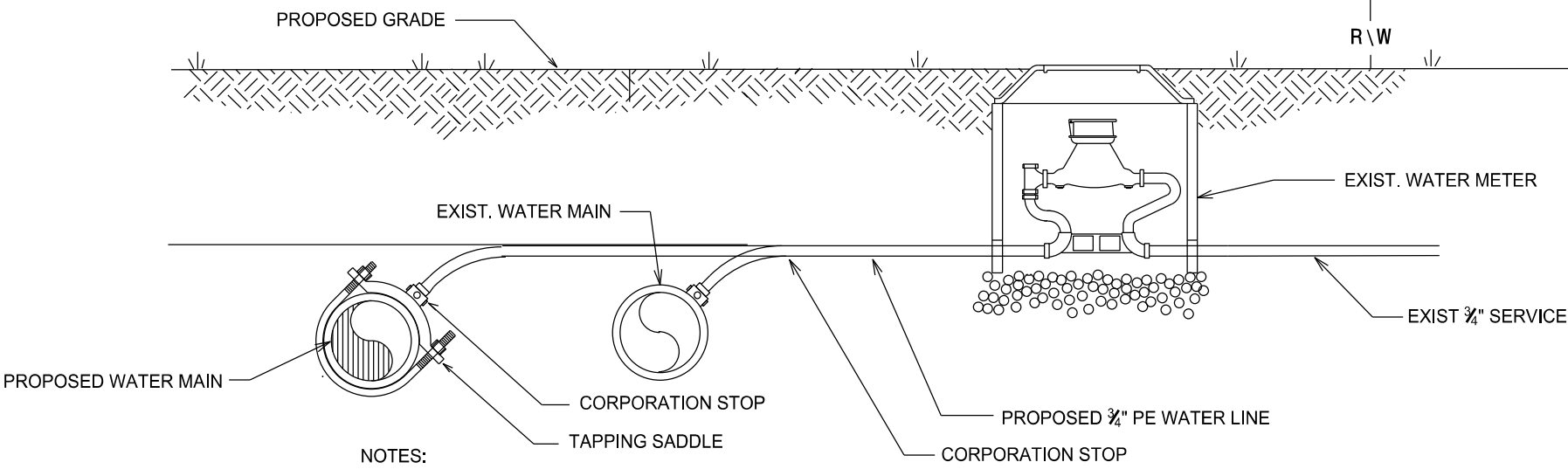
- NOTES:
- THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROVED SAW CUT MACHINE.
 - THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 - THE FINAL 1" OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
 - THE ENTIRE THICKNESS/VERTICAL EDGE OF CUT SHALL BE TACKED.
 - THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 1 1/2" THICK.
 - THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
 - REFER ADDITIONAL TRENCH DETAILS, THIS SHEET.
 - NO HAND PATCHING ALLOWED.
 - PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

STANDARD ASPHALT PAVEMENT PATCH DETAIL



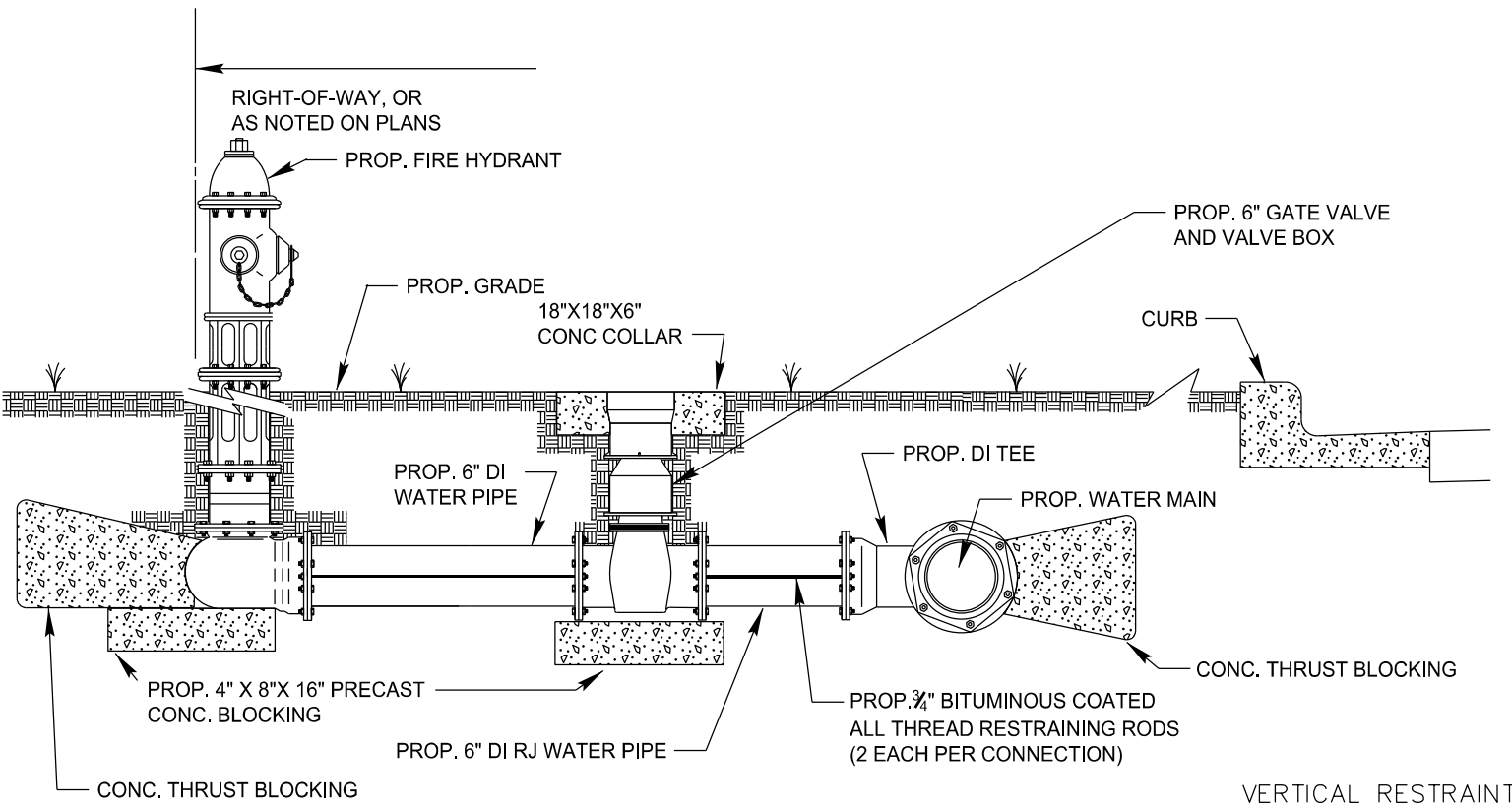
- NOTES:
- DIP MAY BE USED FOR VALVE BOX EXTENSION
 - VALVE BOX SHALL NOT CONTACT WATERMAIN OR VALVE
 - CONCRETE PROTECTION RING SHALL BE USED IN ALL UNPAVED AREAS
 - VALVE BOX AND COVER INCIDENTAL TO VALVE INSTALLATION

TYPICAL VALVE DETAIL



- NOTES:
- INSTALLATION SHALL INCLUDE THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
 - THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

RECONNECT EXISTING WATER METER DETAIL



FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)

PROJECT REFERENCE NO.		SHEET NO.	
TIP 47754		UC-3A	
DESIGNED BY: B.DIXON			
DRAWN BY: R.MOSS			
CHECKED BY: G.FLOWERS			
APPROVED BY:			
REVISED:			
MUNICIPAL ENGINEERING SERVICES COMPANY, PA.			
P.O. BOX 97 GARNER, NC 27529 (919) 772-5393		UTILITY CONSTRUCTION PLANS ONLY	

PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.
TIP 47754

SHEET NO.
UC-3B

DESIGNED BY: B.DIXON

DRAWN BY: R.MOSS

CHECKED BY: G.FLOWERS

APPROVED BY:

REVISED:

MUNICIPAL ENGINEERING SERVICES COMPANY, PA.

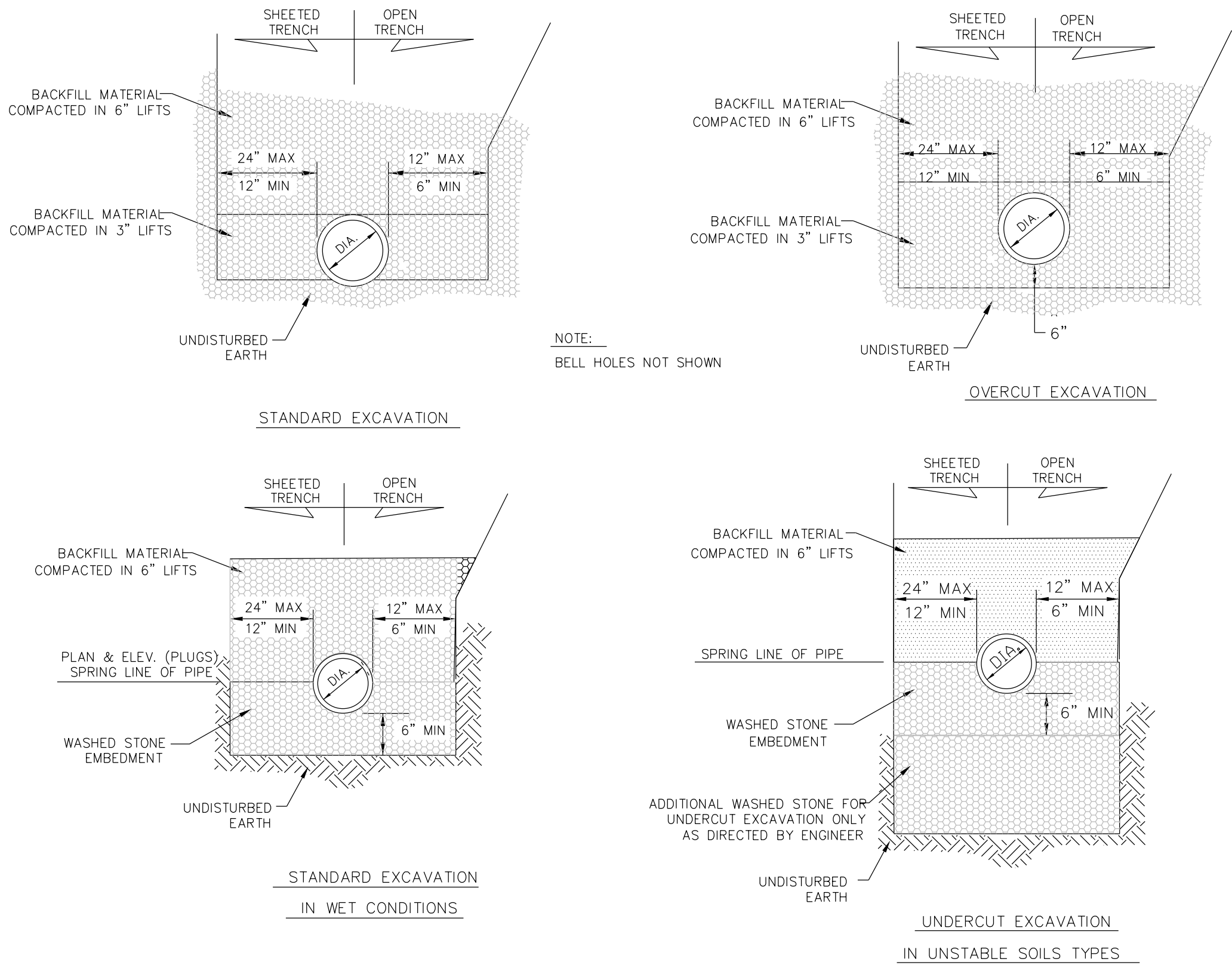
P.O. BOX 97
GARNER, NC 27529
(919) 772-5393

UTILITY CONSTRUCTION PLANS ONLY

PROFESSIONAL SEAL
038710
BENJAMIN D. CLARK, P.E.

12-21

UTILITY CONSTRUCTION



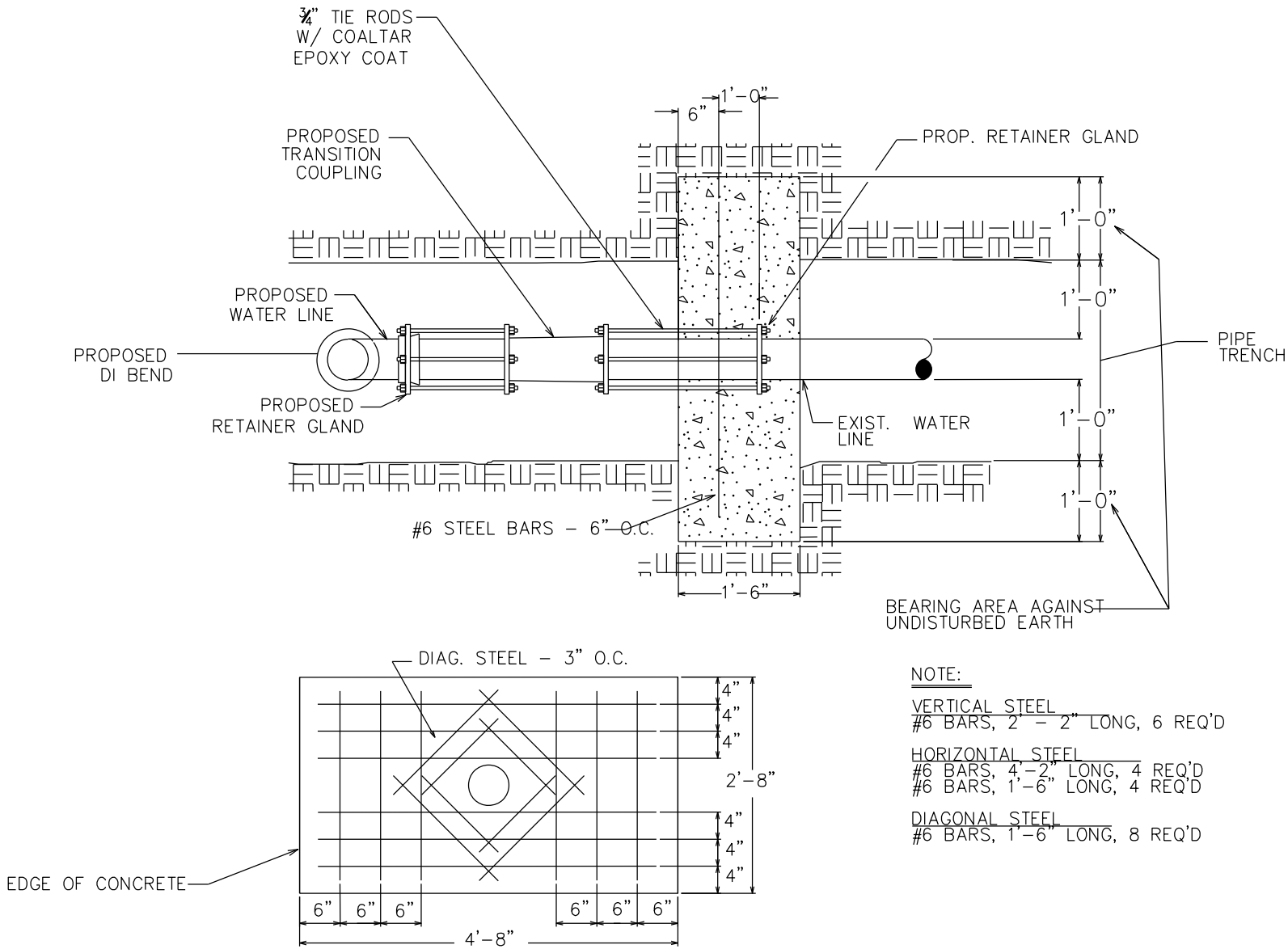
TYPICAL TRENCH DETAIL

MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
6	30	24	48
10	34	36	60
16	40	54	78

NOTES:
CONSTRUCTION OF TRENCHES SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

NO BOULDERS OR STONES IN EXCESS OF 4" IN SIZE SHALL BE USED AS PART OF THE INITIAL BACKFILL.

PIPE BEDDING MATERIAL SHALL BE # 57 WASHED STONE.



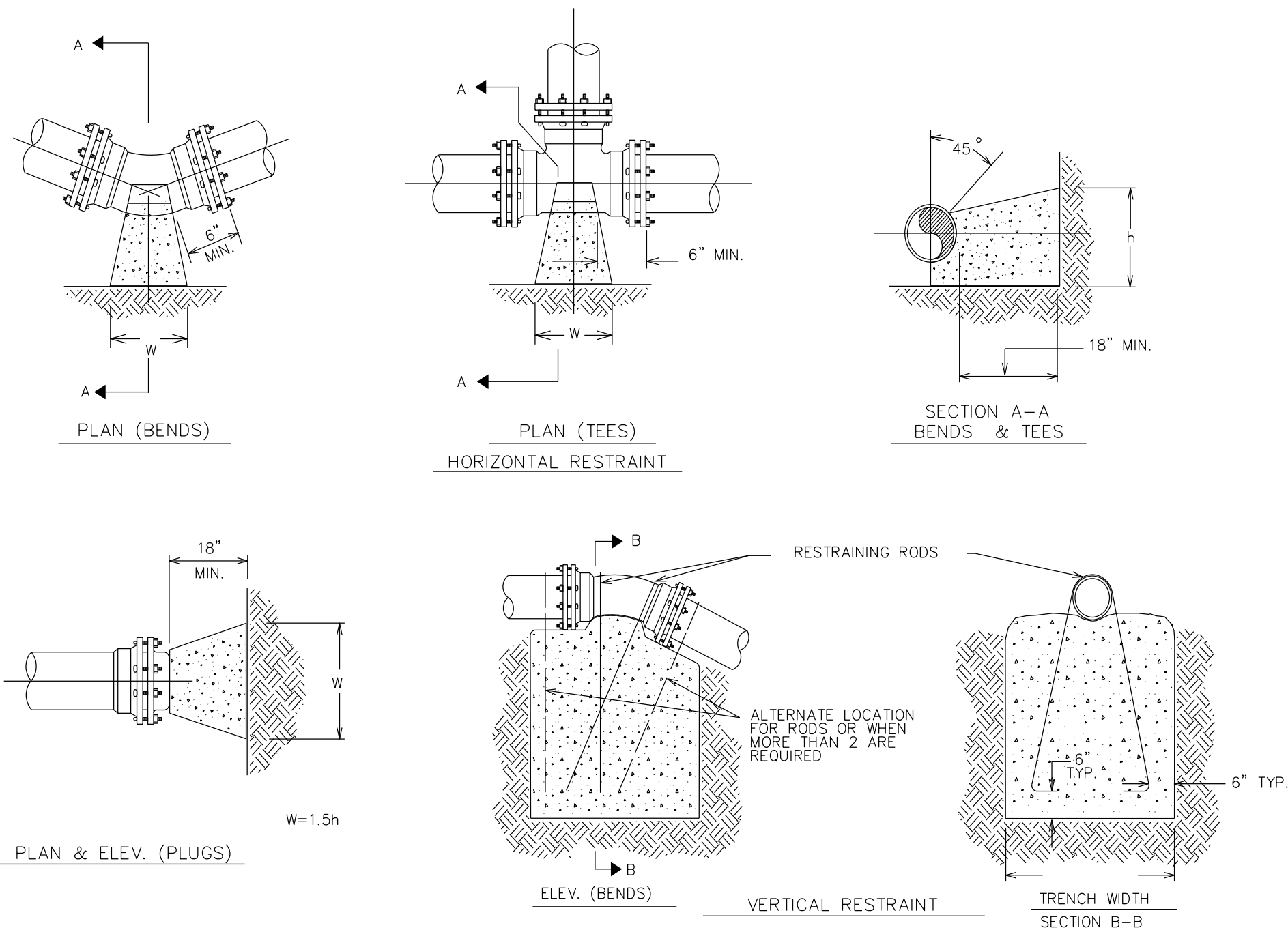
THRUST RESTRAINT WITH RETAINER GLANDS FOR PROP. PIPE TO EXIST. PIPE

BASED ON TEST PRESSURE OF 200 P.S.I.											
HORIZONTAL RESTRAINT (ALL AREAS GIVEN ARE IN SQUARE FEET)								VERTICAL RESTRAINT (ALL VOLUMES GIVEN ARE IN CUBIC YARDS)**			
PIPE SIZE	DEGREE OF BEND	LBS. STATIC THRUST *	ALLOWABLE SOIL BEARING (PSF)								PIPE SIZE
			1000	2000	3000	4000	5000	6000	7000	8000	
6"	11 1/4°	1,385	2	1	1	1	1	1	1	1	6"
	22 1/2°	2,758	3	2	1	1	1	1	1	1	
	45°	5,409	5	3	2	2	1	1	1	1	
	90°	9,999	10	5	3	3	2	2	2	1	
	TEE/PLUG	7,068	7	4	3	2	2	1	1	1	
10"	11 1/4°	3,846	4	2	2	1	1	1	1	1	10"
	22 1/2°	7,661	8	4	3	2	2	1	1	1	
	45°	15,028	15	8	5	4	3	2	2	2	
	90°	27,768	28	14	9	7	6	5	4	3	
	TEE/PLUG	19,635	20	10	7	5	4	3	3	2	
16"	11 1/4°	9,854	10	5	3	3	2	2	2	2	16"
	22 1/2°	19,612	20	10	7	5	4	3	3	3	
	45°	38,471	38	17	13	10	8	6	5	5	
	90°	71,085	71	36	24	18	14	12	10	9	
	TEE/PLUG	50,265	50	25	17	13	10	8	7	6	

* INCLUDES 1.25 SAFETY FACTOR

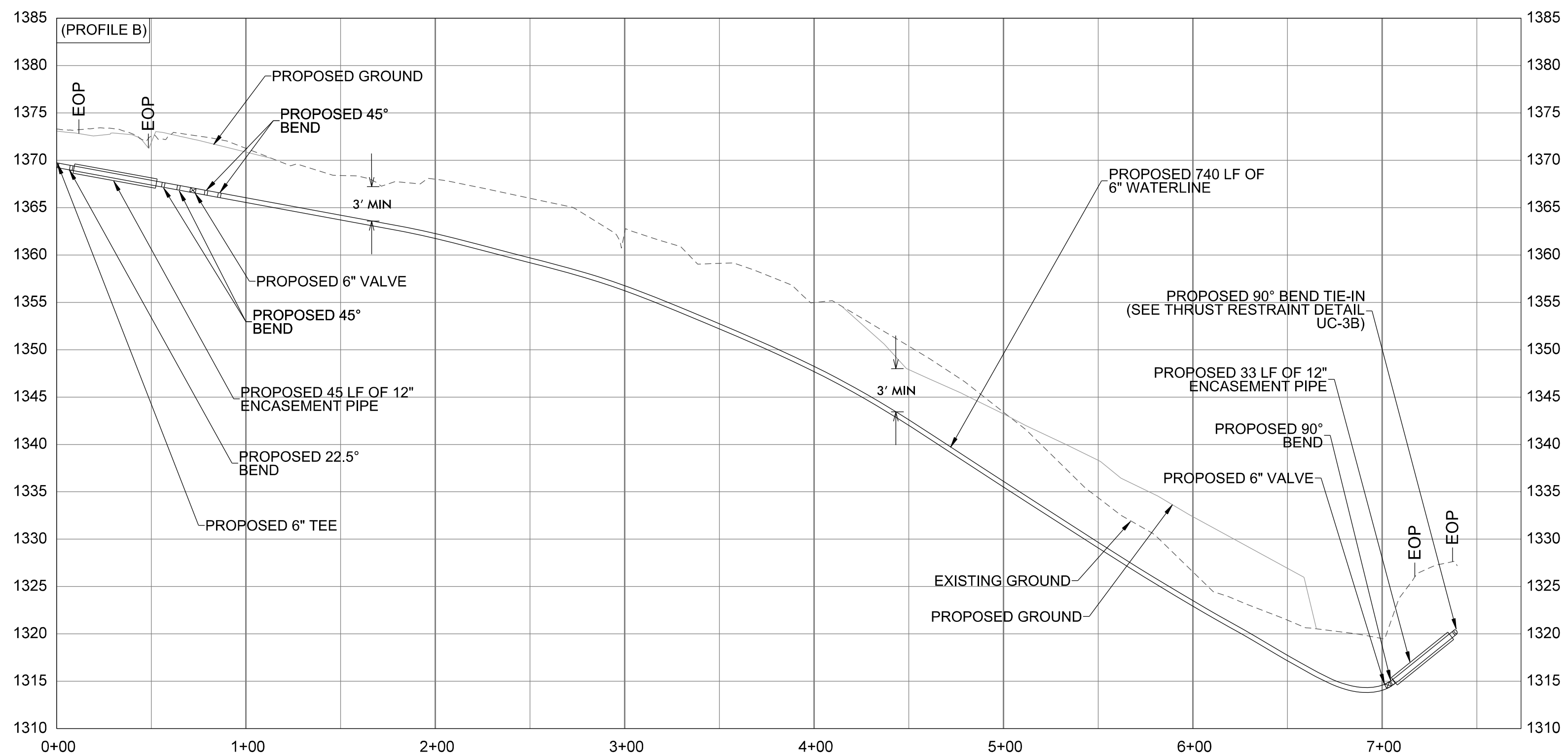
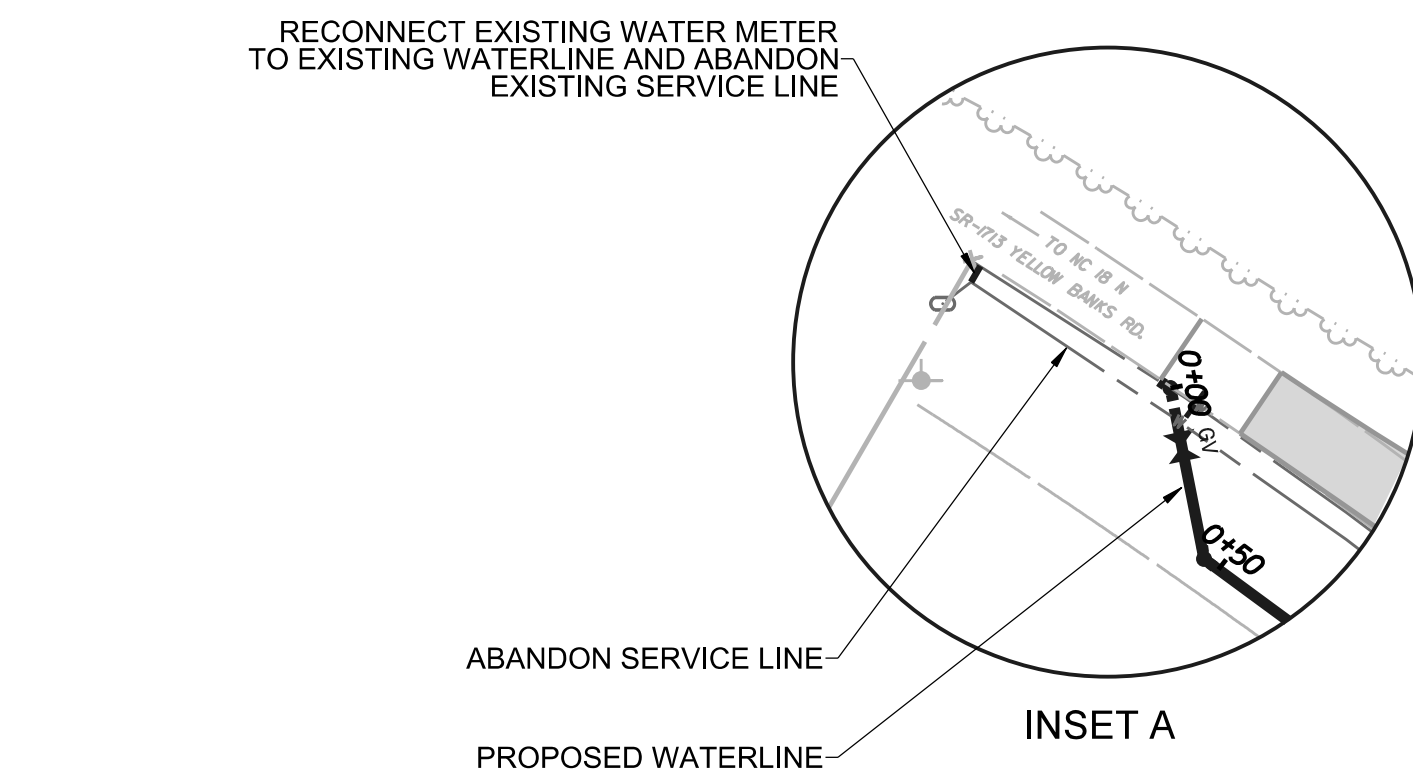
- GENERAL NOTES:
- CONCRETE SHALL BE CLASS "B"
 - CONCRETE SHALL NOT CONTACT BOLTS ENDS OF MECHANICAL JOINT FITTINGS.
 - CONSULT WITH ENGINEER FOR CONCRETE REQUIREMENTS ON MAINS LARGER THAN 16 INCHES. (FOR VERTICAL & HORIZONTAL BENDS)
 - ALLOWABLE SOIL BEARING SHALL BE DETERMINED BY THE ENGINEER.

THRUST RESTRAINT FOR WATER MAINS



THRUST RESTRAINT FOR PIPE LINES

1. ALL PIPE LINE FITTINGS AND INSTALLATION SHALL BE INCIDENTAL TO THE COST OF THE PROPOSED PIPE LINE.
2. THE CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE SIZED SLEEVE TO MAKE PROPER CONNECTIONS TO EXISTING PIPE LINES.
3. WHEN CROSSING PIPE LINES UNDER PROPOSED AND/OR EXISTING DITCHES INSURE THAT PIPE LINE WILL HAVE A MINIMUM OF 4' COVER FROM FINISHED GRADE.
4. USE RESTRAINED JOINTS AT FIRST TWO JOINTS BEYOND EACH SIDE OF FITTING IN ADDITION TO THRUST BLOCKING AT FITTING.
5. IF AN ITEM IS NOT CALLED OUT IN A BOX, IT IS INCIDENTAL TO AND INCLUDED IN THE UNIT COST OF THE PIPE LINE.
6. TWO OR MORE ADJACENT METERS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAIL. ALL GANG METER INSTALLATIONS ON THIS PROJECT SHALL HAVE A 1-INCH SERVICE TAP & SUPPLY LINE FROM MAIN LINE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
7. PIPE LINE ABANDONMENT SHALL BE AFTER NEW PIPE LINE HAS BEEN TESTED AND ACCEPTED. PIPE LINE ABANDONMENT SHALL BE IN ACCORDANCE WITH SECTION 1530 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.



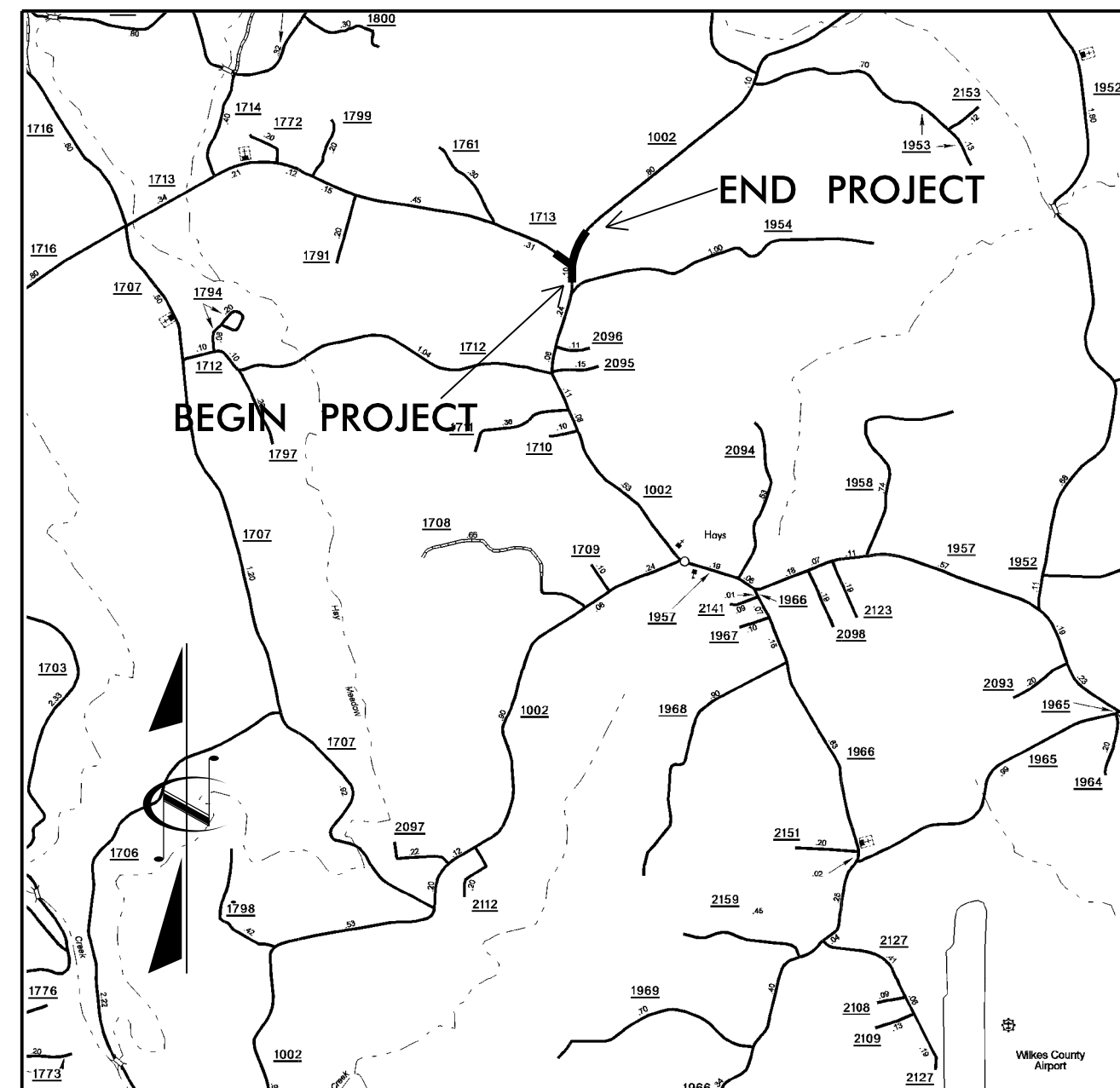
CLEARING & GRUBBING AREA TOTALS	
AREA 1	.13 ACRES
AREA 2	.008 ACRES
AREA 3	.03 ACRES
TOTAL	.17 ACRES

PROJECT REFERENCE NO.		SHEET NO.	
TIP 47754		UC-4	
DESIGNED BY: B. DIXON			
DRAWN BY: R. MOSS			
CHECKED BY: G. FLOWERS			
APPROVED BY:			
REVISED:			
MUNICIPAL ENGINEERING SERVICES COMPANY, PA.		12 21 UTILITY CONSTRUCTION PLANS ONLY	
P.O. BOX 97 GARNER, NC. 27529 (919) 772-5393			

UTILITY CONSTRUCTION

TIP PROJECT: 47754

See Sheet 1A For Index of Sheets



VICINITY MAP
(NOT TO SCALE)

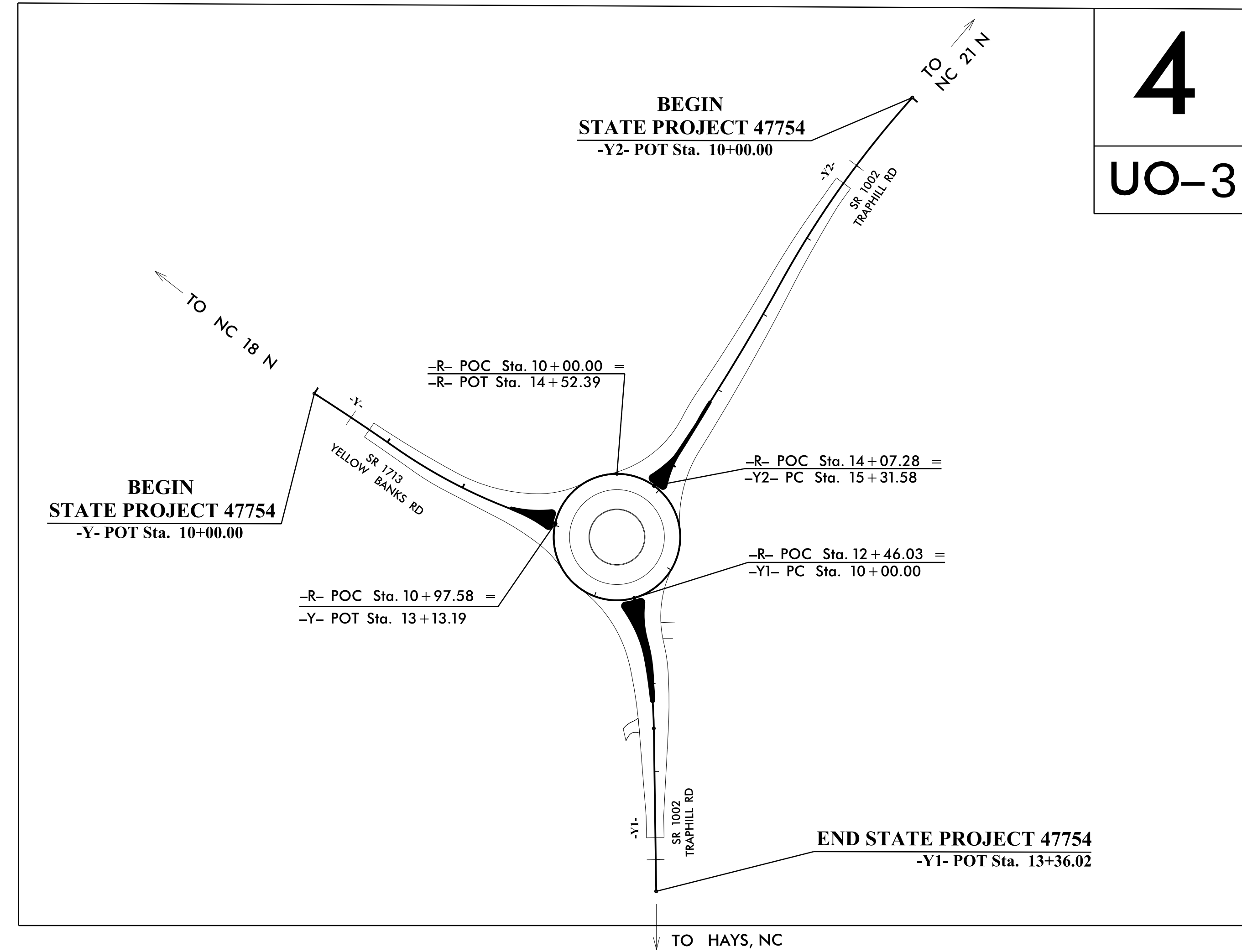
THIS PROJECT IS NOT WITHIN
ANY MUNICIPAL BOUNDRIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
WILKES COUNTY

LOCATION: SR 1002 (TRAPHILL ROAD)

TYPE OF WORK: AERIAL & BURIED UTILITIES

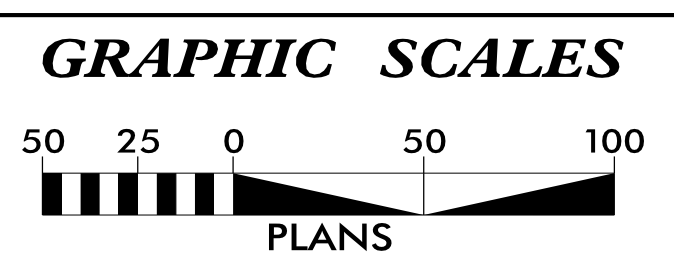


4
UO-3



T.I.P. NO.	SHEET NO.
47754	UO-1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



INDEX OF SHEETS

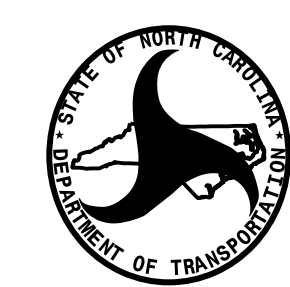
SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	SYMBOLGY SHEET
UO-3	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

- (A) TELEPHONE - CENTURY LINK
TIMMIE HYLTON (336) 789 - 0016
- (B) WATER - BLUE RIDGE WATER
GREG REAVIS (336) 696 - 4713
- *NOTE: SEE UC PLANS FOR WATER
UTILITY RELOCATIONS

UTILITY OWNERS
WITHOUT CONFLICTS

- (A) POWER - DUKE ENERGY
LANCE MUELLER (336) 840 - 8842
- (B) CABLE - SPECTRUM
JEREMY STORIE (828) 514 - 5034
- (C) CABLE - WILKES COMMUNICATIONS
SCOTTY BARE (336) 452 - 9702



PREPARED IN THE OFFICE OF:

DIVISION OF HIGHWAYS
DIVISION II

801 STATESVILLE ROAD
NORTH WILKESBORO, N.C. 28659

SUSIE HUFFMAN	DIV. II UTILITY COORDINATOR
RAMIE SHAW, P.E.	DIV. II PROJ. DEV. TEAM LEAD
DESIREE HAGWOOD	DIV. II DDC ENGINEER

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" WL
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line 12" SS
(Sized as Shown)

Force Main Sewer Line 12" FSS
(Sized as Shown)

Manhole
(Sized per Note)

Sewer Pump Station PS(SS)

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	 PROP O/H POW LINES
Trenchless Installation	 12" TL INSTALL
Encasement by Open Cut	 24" ENCAS BY OC
Encasement	 24" ENCASUREMENT

Thrust Block			
Air Release Valve			
Utility Vault			
Concrete Pier			
Steel Pier			
Plan Note		NOTE	
Pay Item Note		<table><tr><td>PAY ITEM</td></tr></table>	PAY ITEM
PAY ITEM			

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records ...	AATUR
End of Information	E.O.I.

*Underground Power Line	_____
*Underground Telephone Cable	_____
*Underground Telephone Conduit	_____
*Underground Fiber Optics Telephone Cable	_____
*Underground TV Cable	_____
*Underground Fiber Optics TV Cable	_____
*Underground Gas Pipeline	_____
Aboveground Gas Pipeline	_____ A/G Gas
*Underground Water Line	_____
Aboveground Water Line	_____ A/G Water
*Underground Gravity Sanitary Sewer Line	_____ ss
Aboveground Gravity Sanitary Sewer Line	_____ A/G Sanitary Sewer
*Underground SS Forced Main Line	_____
Underground Unknown Utility Line	_____
SUE Test Hole	_____ 
Water Meter	_____ 
Water Valve	_____ 
Fire Hydrant	_____ 
Sanitary Sewer Cleanout	_____ 

*For Existing Utilities

Utility Line Drawn from Record
(Type as Shown)
Designated Utility Line
(Type as Shown)

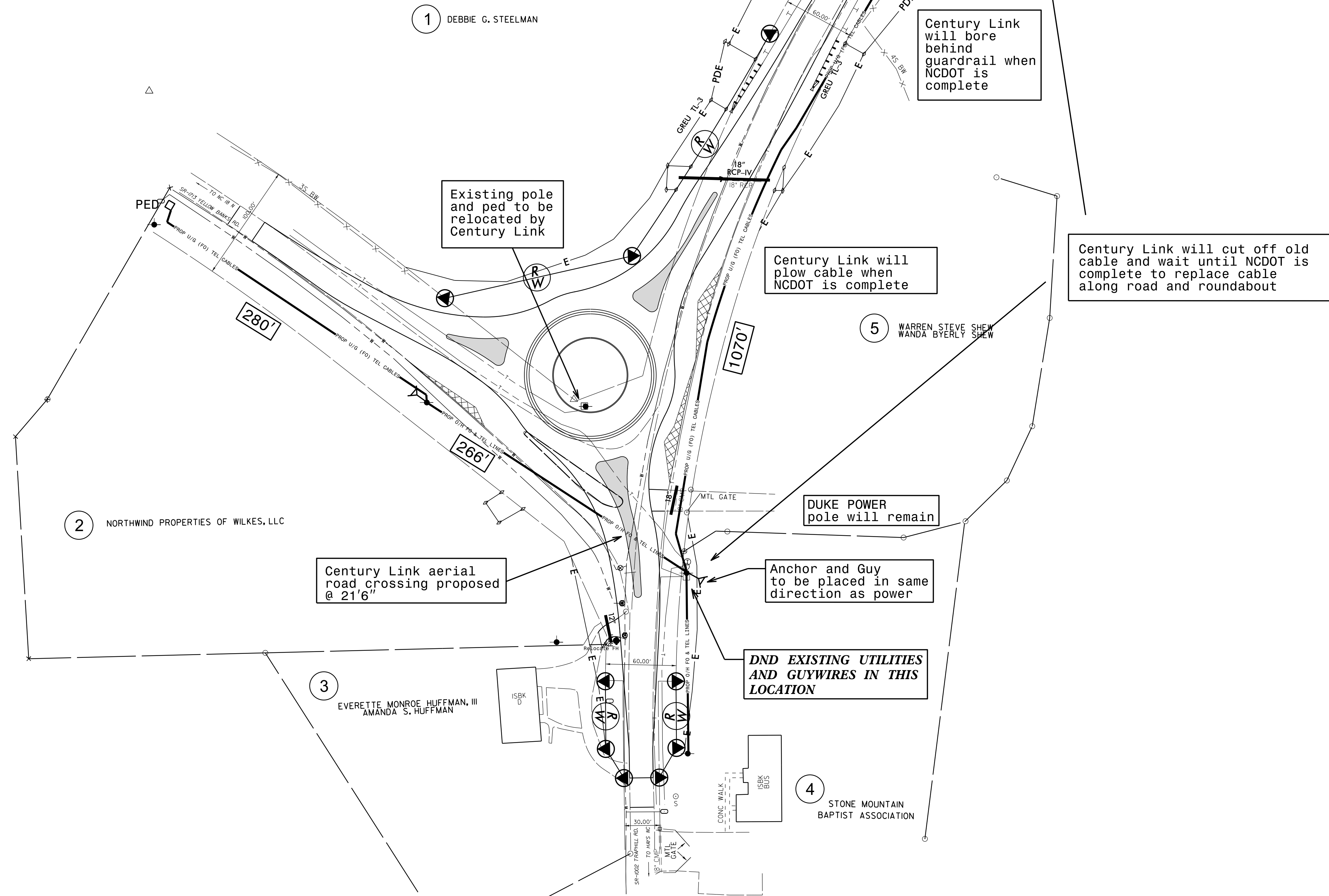
CONTACT INFORMATION FOR UTILITIES

POWER: DUKE ENERGY; Lance Mueller (336)840-8842 lance.mueller@duke-energy.com
PHONE: CENTURY LINK; Timmie Hylton (336)789-0016 timmie.hylton2@centurylink.com
CABLE: SPECTRUM; Jeremy Storie (828)514-5034 jeremy.storie@charter.com
WILKES COMMUNICATIONS; Scotty Bare (336)452-9702 scottybare@myriverstreet.net
WATER: BLUE RIDGE WATER; Greg Reavis (336)696-4713 service@blueridgewa.org

NOTE: SEE UC PLANS FOR WATER UTILITY RELOCATIONS

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



47754

CROSS-SECTION INDEX

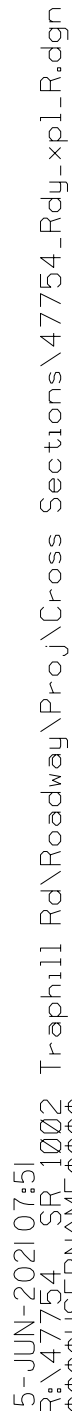
CROSS-SECTION SUMMARY SHEET X-A

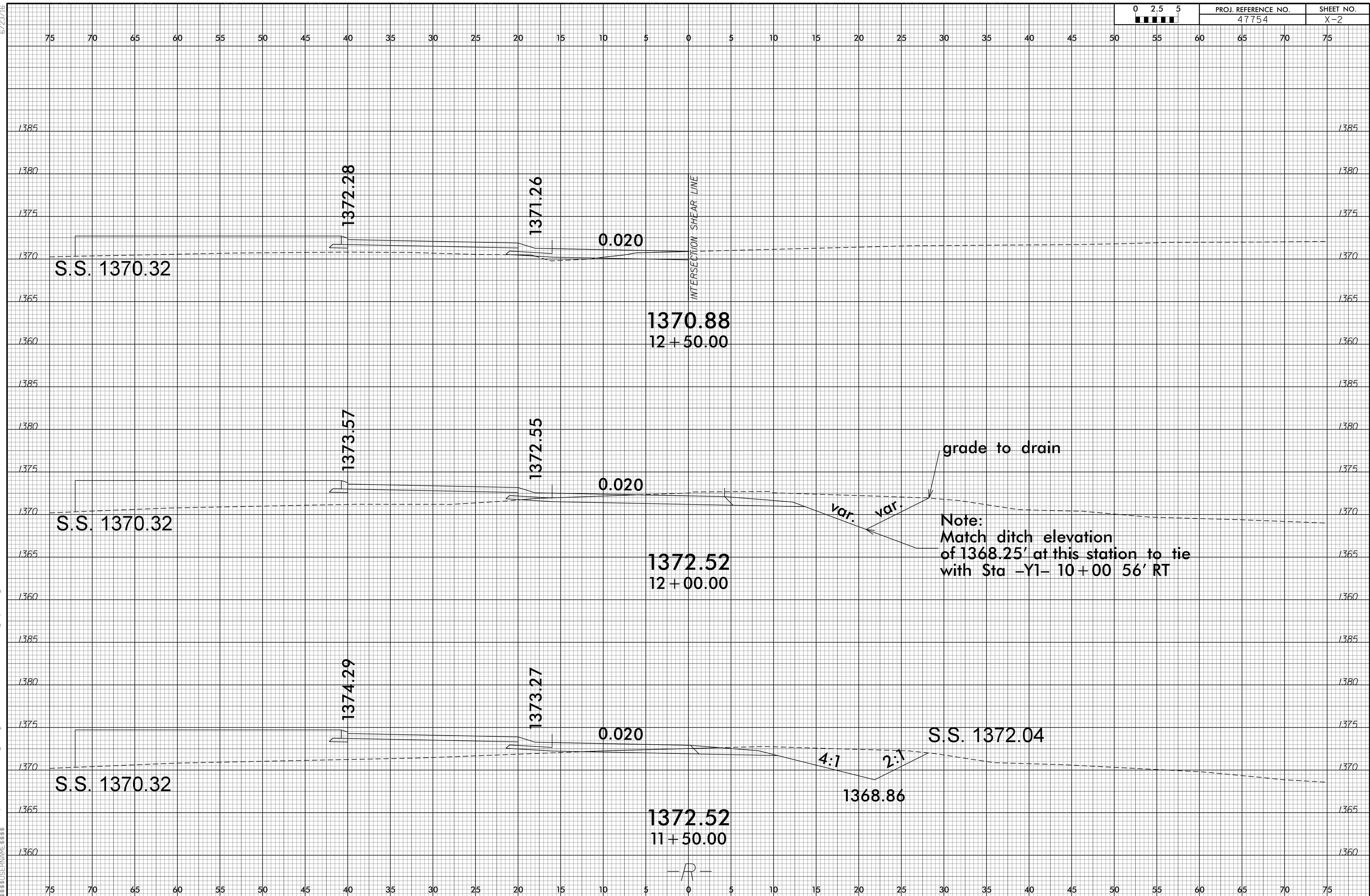
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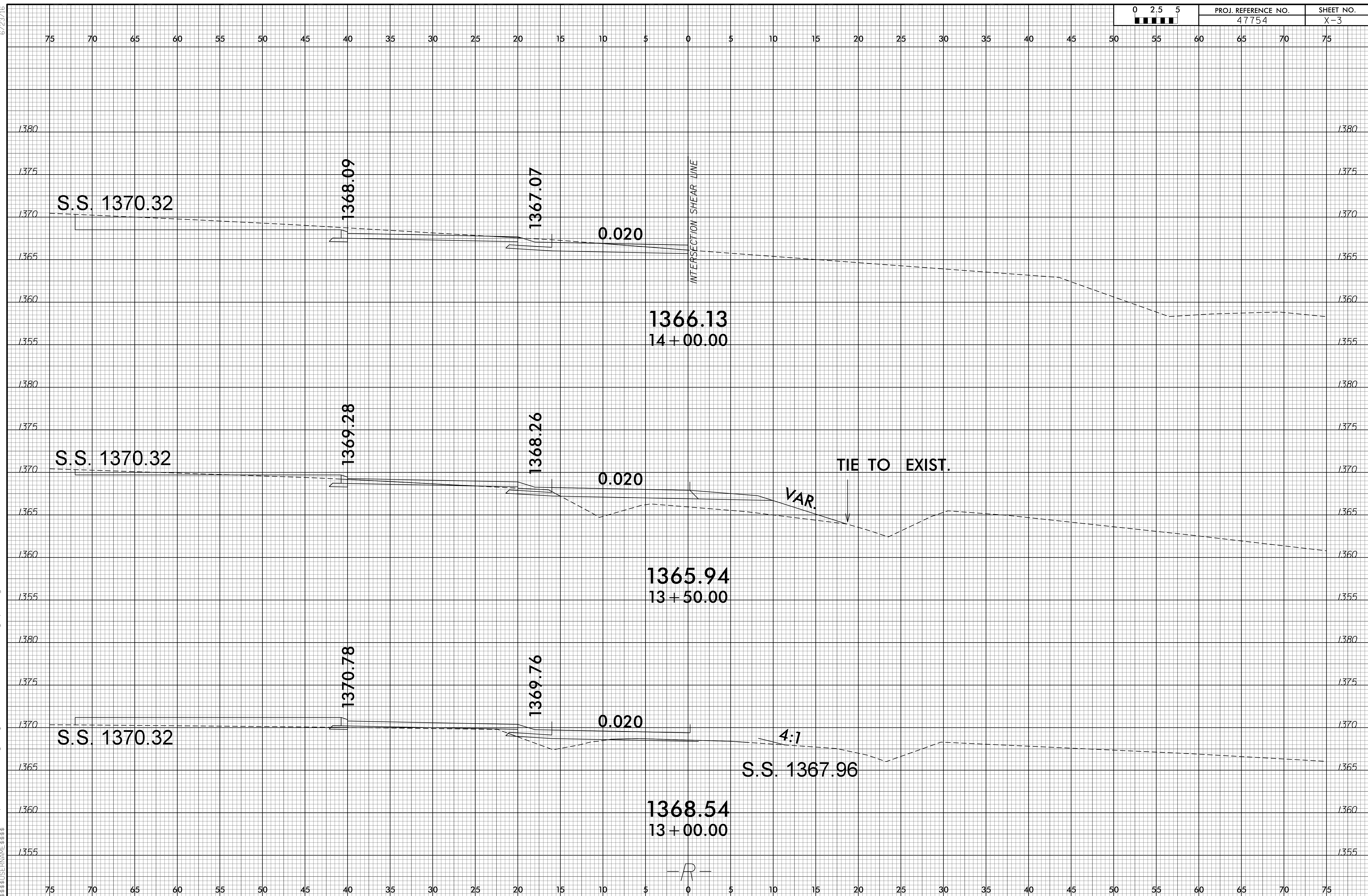
-Y- STA. 11+00.00 TO STA. 13+00.00 X-5 - X-6

-Y1- STA. 10+00.00 TO STA. 12+50.00 X-7 - X-8

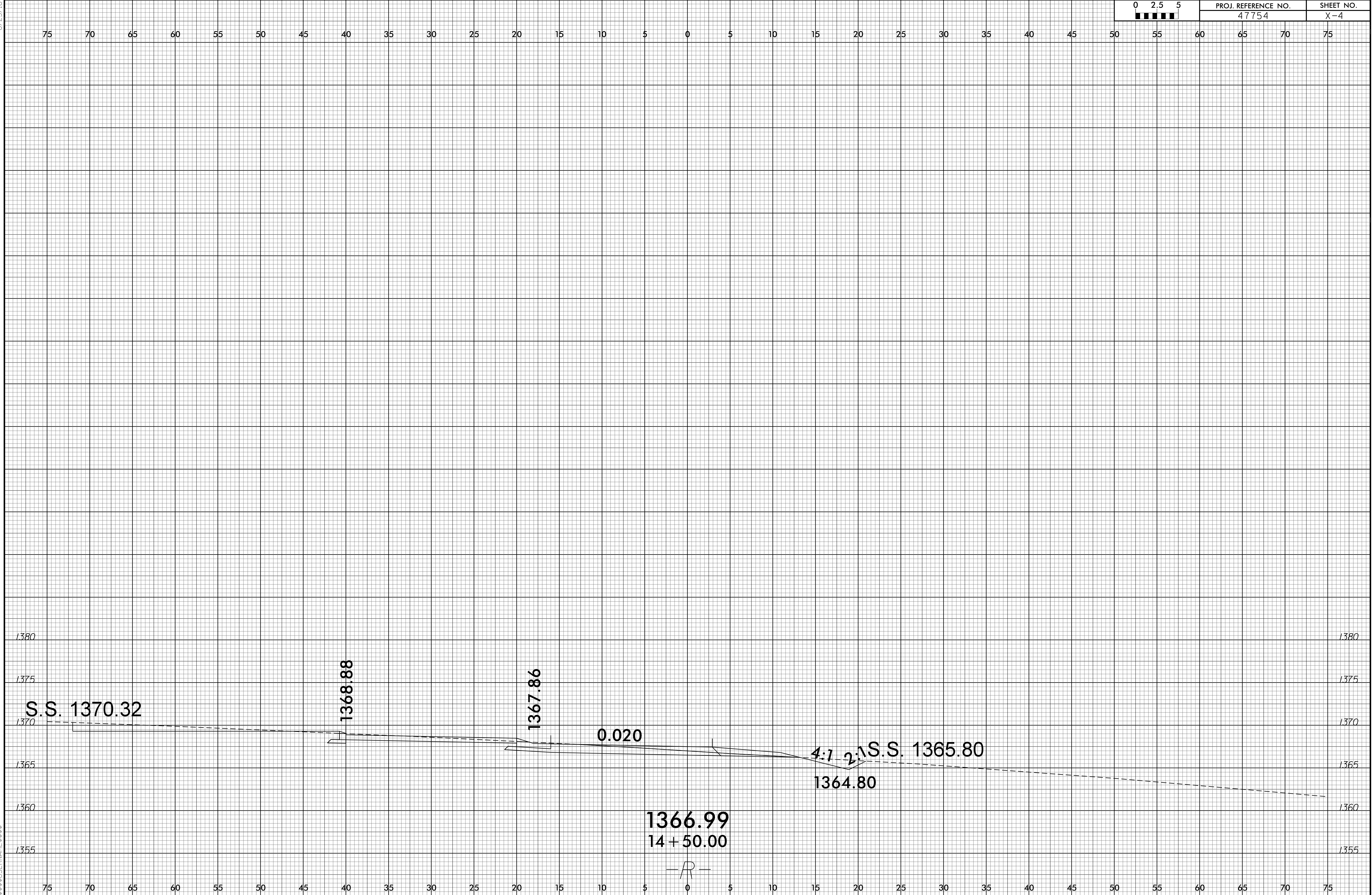
-Y2- STA. 11+50.00 TO STA. 15+00.00 X-9 - X-12

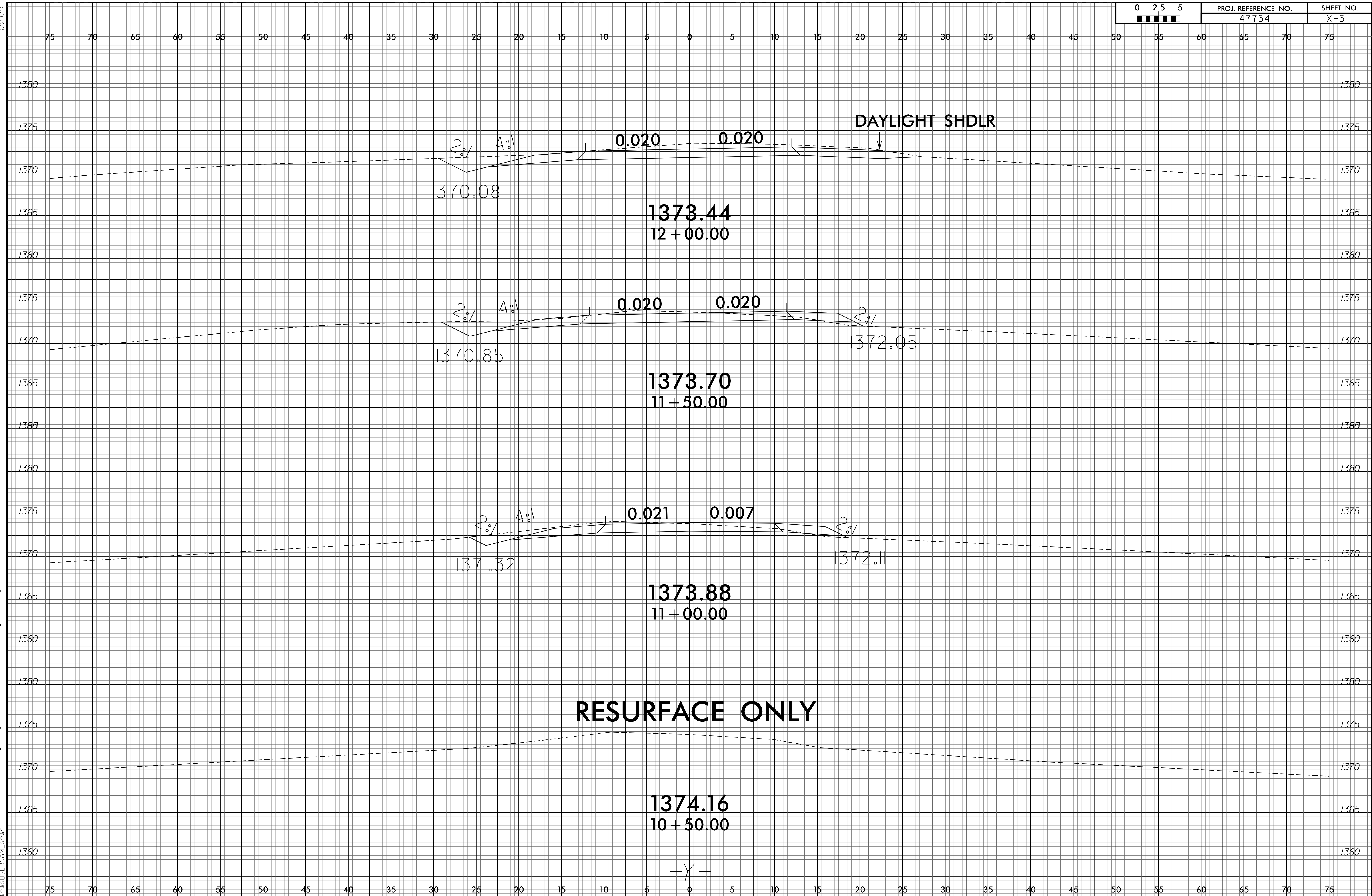


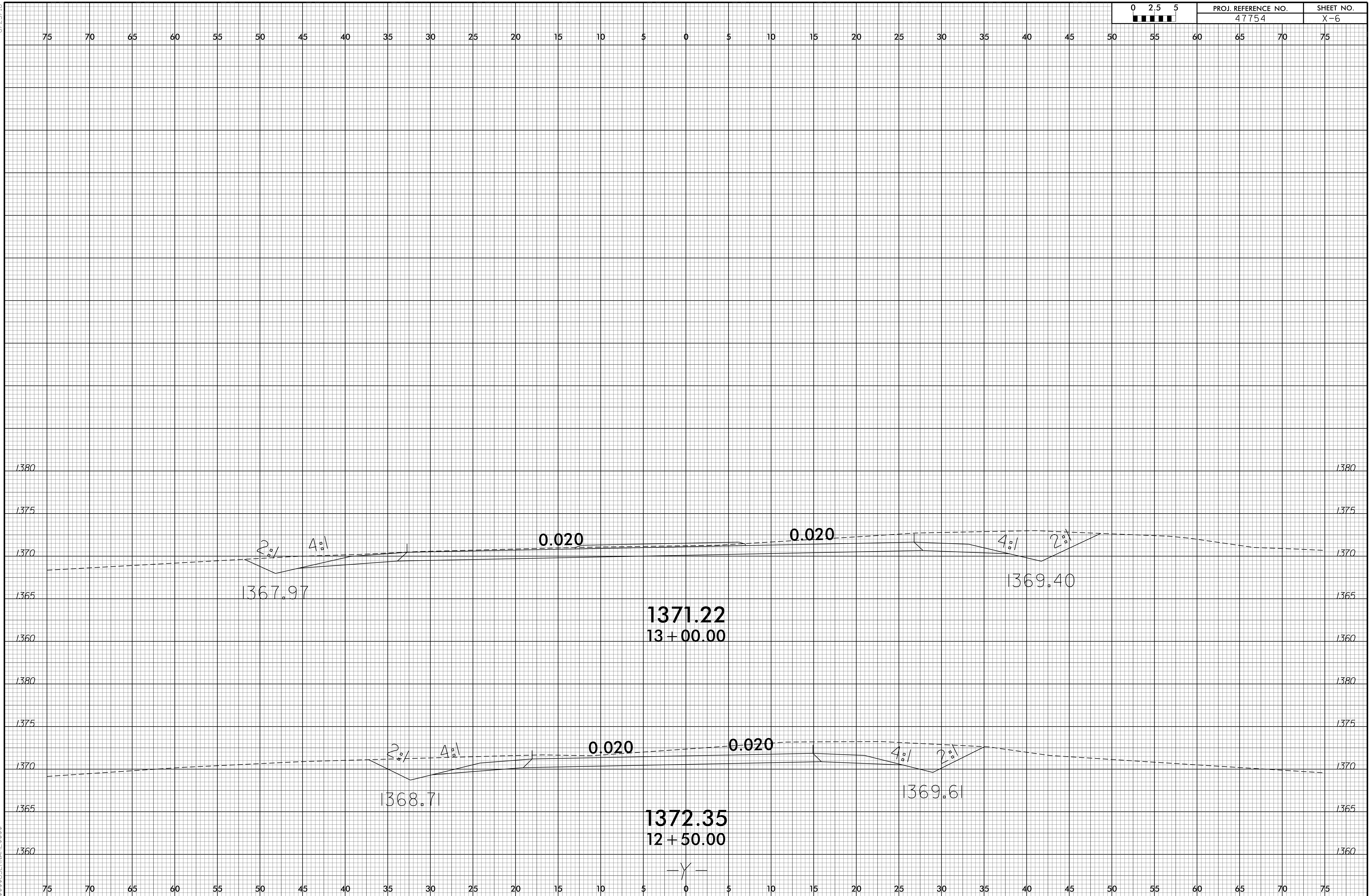


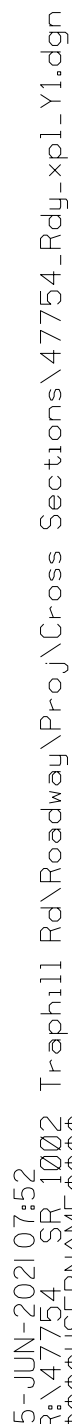


6/23/16
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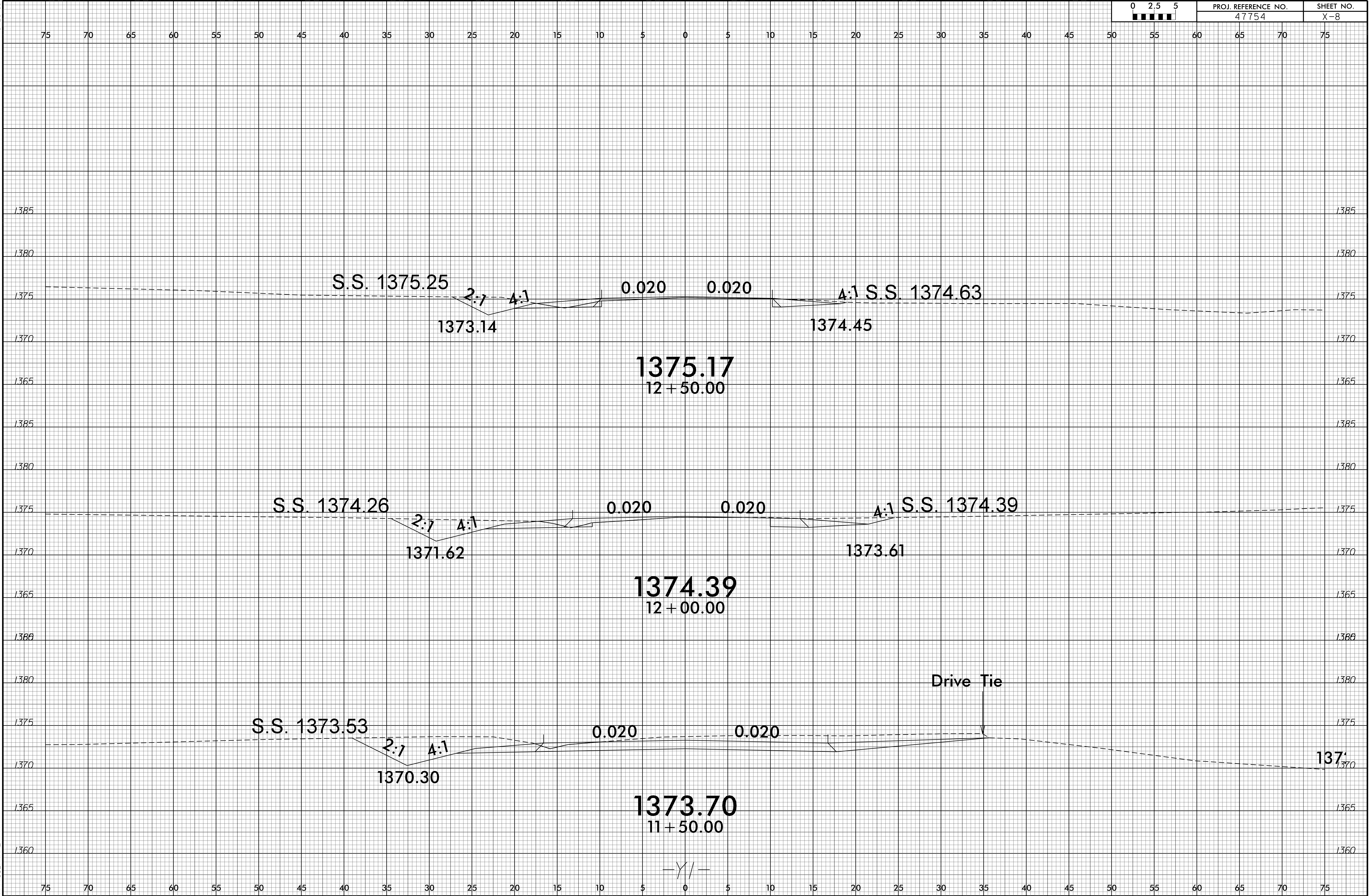


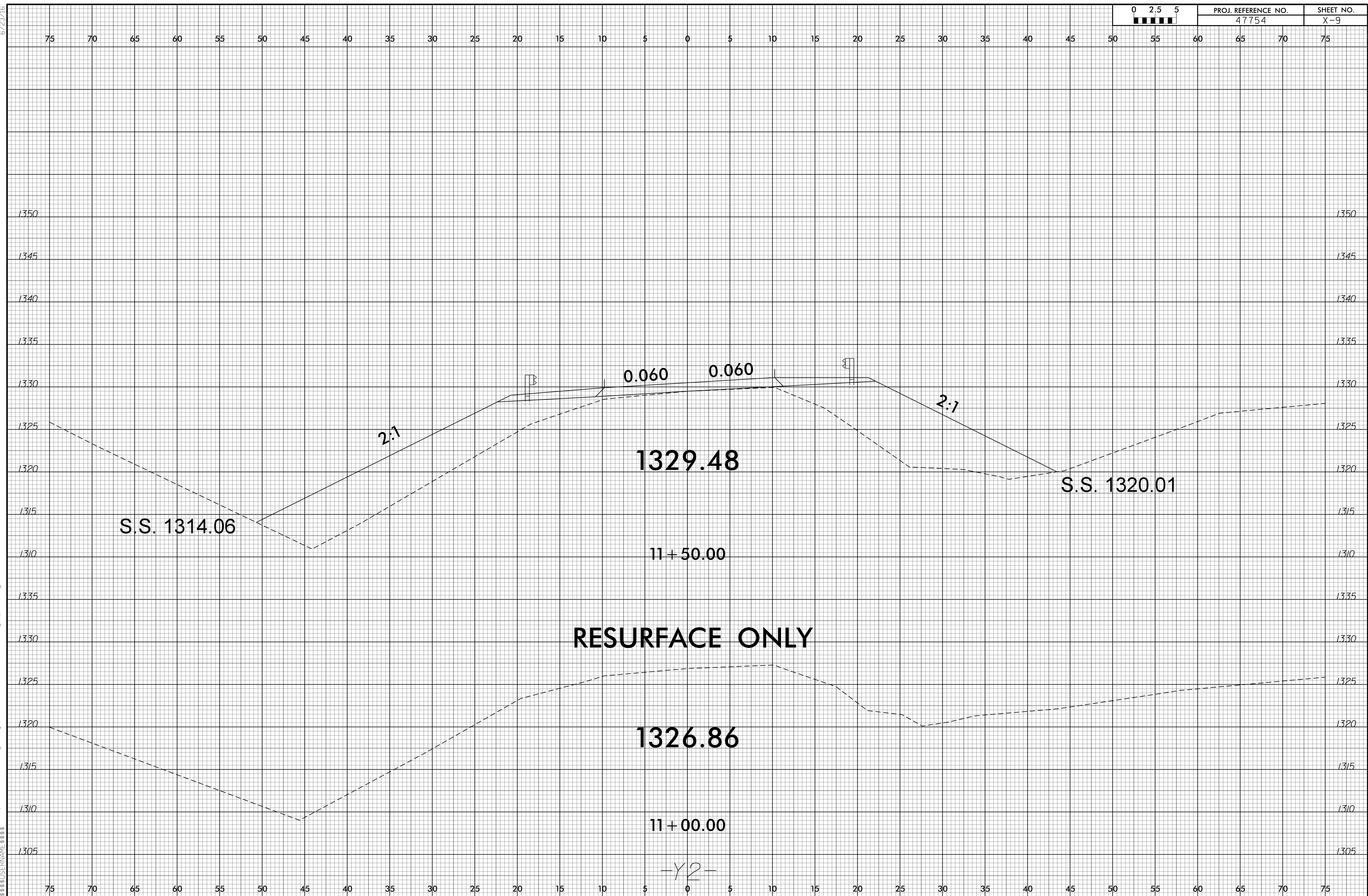




6/23/16

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6/23/16

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