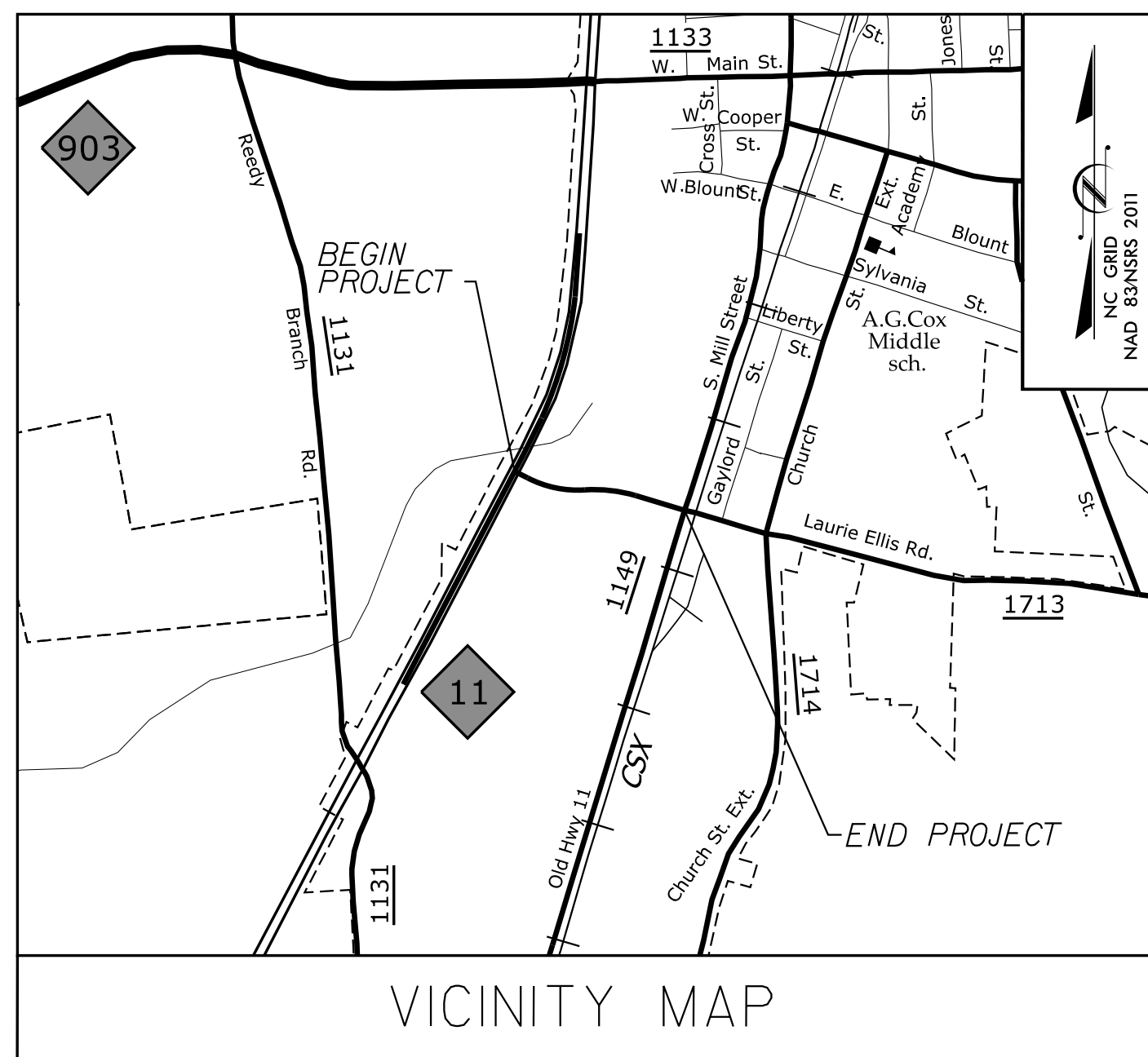


09/28/99 CONTRACT: DB00360 TIP PROJECT: U-5921

See Sheet 1A For Index of Sheets



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PITT COUNTY

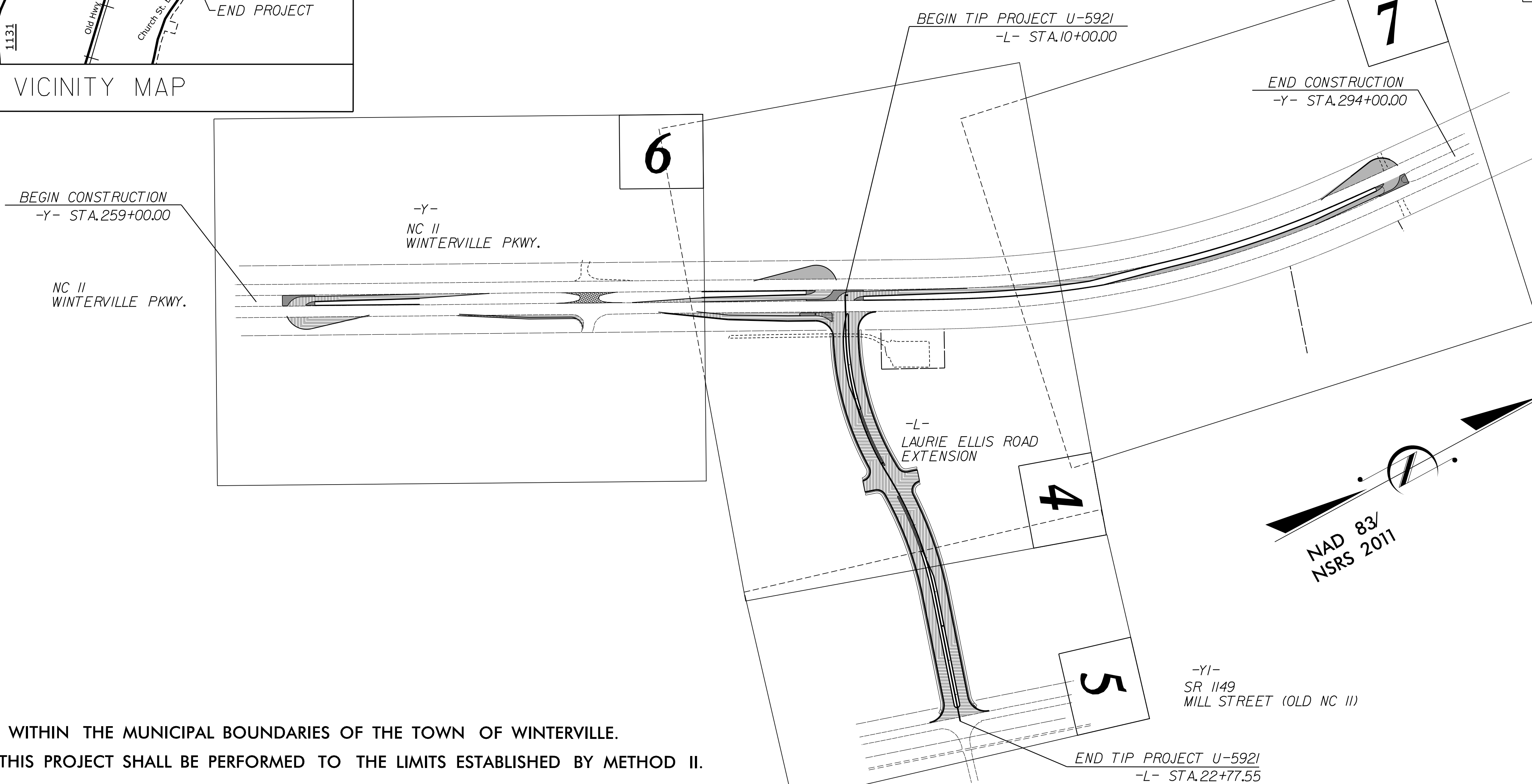
LOCATION: LAURIE ELLIS ROAD FROM NC 11 TO MILL STREET
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND CURB AND GUTTER

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5921	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
	N/A	P.E.	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF WINTERVILLE.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

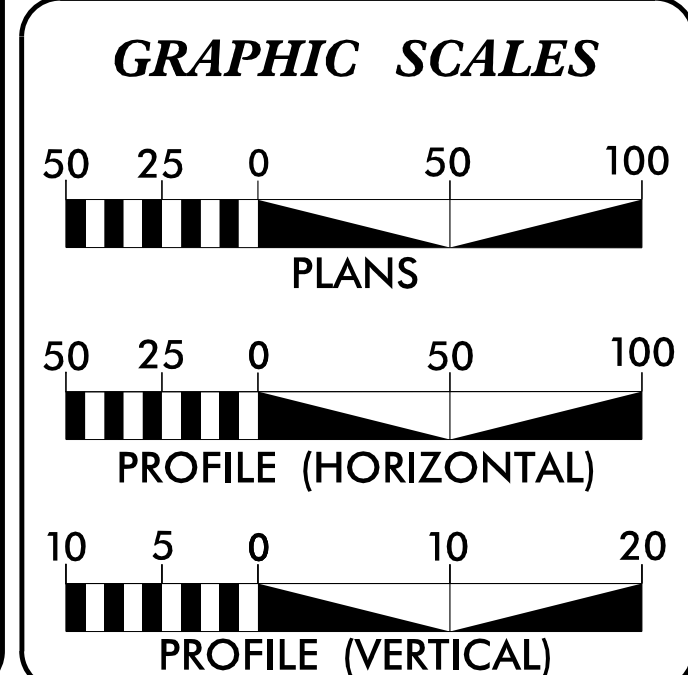
FINAL ROADWAY PLANS

V&M
Vaughn & Melton
Consulting Engineers

Asheville, North Carolina
828-253-2796

- New Bern, NC 252-631-9165
- Boone, NC 828-355-9933
- Tri-Cities, TN 423-467-8401
- Knoxville, TN 865-546-5800
- Spartanburg, SC 843-974-5650
- Charleston, SC 843-974-4775
- Middlesboro, KY 606-248-6600
- Raleigh, NC 919-971-9455
- Charlotte, NC 704-357-0488
- Atlanta, GA 770-621-3559

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DESIGN DATA

V = 45 MPH

FUNC CLASS=MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY PROJECT U-5921 = 0.230 Mi.
TOTAL LENGTH OF PROJECT U-5921 = 0.230 Mi.

TOTAL LENGTH OF PROJECT = 0.230 Mi.

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh, NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DWAYNE H. ALLIGOOD, PE
PROJECT ENGINEER

LETTING DATE: DWAYNE H. ALLIGOOD, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACT:
LARRY L. JONES
DIVISION 2 DDC ENGINEER

HYDRAULICS ENGINEER

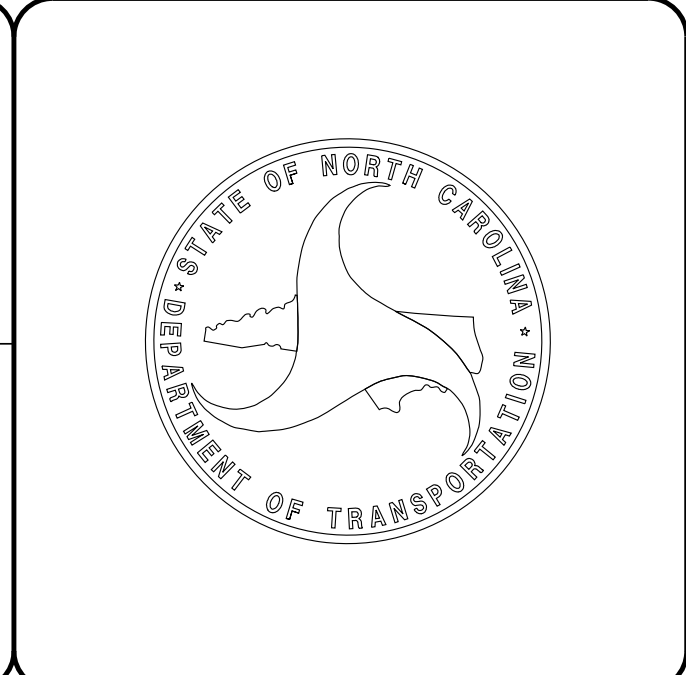
DocuSigned by:
Edward Vance
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EDWARD J. VANCE, P.E.
SIGNATURE:

ROADWAY DESIGN ENGINEER

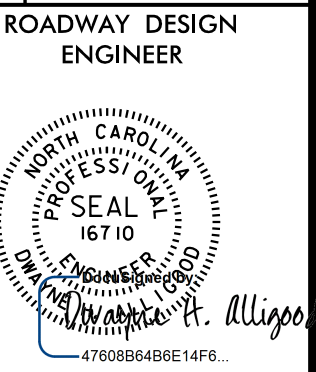
DocuSigned by:
Dwayne H. Alligood
3760BB4B8E14F6...

DWAYNE H. ALLIGOOD, P.E.
SIGNATURE:



8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-592I	1A



**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 PLAN SHEET SYMBOLS
1C-1	SURVEY CONTROL SHEET
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	EARTHWORK SUMMARY, PAVEMENT REMOVAL SUMMARY, AND GEOTECHNICAL SUMMARIES
3B-1 THRU 3B-2	DRAINAGE SUMMARIES
4 THRU 7	PLAN SHEETS
8 THRU 11	PROFILE SHEETS
TMP-1 THRU TMP-9	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS AND SIGNING PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-0	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-17	CROSS-SECTIONS

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

**GRADE LINE:
GRADING AND SURFACING:**

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

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 AND/OR STD. NO. 225.05 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.

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.02 USING 3' RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

CURB RAMPS

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

EFF. 01-17-2012
REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.03	Deceleration and Acceleration Lanes
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.03	Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
310.10	Driveway Pipe Construction
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.24	Frames and Narrow Slot Sag Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.51	Brick Manhole - 12" thru 36" Pipe
840.52	Precast Manhole - 4', 5' and 6' Diameter
840.53	Precast Manhole with Masonry Base - 12" thru 42" Pipe
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
852.10	Median Construction - with Curb and Gutter
876.02	Guide for Rip Rap at Pipe Outlets
876.03	Drainage Ditches with Class 'A' Rip Rap
876.04	Drainage Ditches with Class 'B' Rip Rap

5/5/2017 5:47:58 PM S:\transportation\31614-04 U-592I Lourie Ellis Road Ext\Roadway\Proj\U592I_Rdy_psh_1A.dgn

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----x
Property Monument	□ ECM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----NLB
Proposed Wetland Boundary	-----NLB
Existing Endangered Animal Boundary	-----EAB
Existing Endangered Plant Boundary	-----EPB
Existing Historic Property Boundary	-----HPB
Known Contamination Area: Soil	☠ s ☠
Potential Contamination Area: Soil	?? s ??
Known Contamination Area: Water	☠ w ☠
Potential Contamination Area: Water	?? w ??
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
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	-----FLDM
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION 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 Easment Pin and Cap	◇
New Permanent Easment Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----R/W
New Right of Way Line with Pin and Cap	-----R/W ▲
New Right of Way Line with Concrete or Granite R/W Marker	-----R/W ●
New Control of Access Line with Concrete C/A Marker	-----C/A
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----E
New Temporary Construction Easement	-----E
New Temporary Drainage Easement	-----TDE
New Permanent Drainage Easement	-----PDE
New Permanent Drainage / Utility Easement	-----DUE
New Permanent Utility Easement	-----PUE
New Temporary Utility Easement	-----TUE
New Aerial Utility Easement	-----AUE

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	●

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----CONC
Bridge Wing Wall, Head Wall and End Wall	-----CONC WW
MINOR:	
Head and End Wall	-----CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
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:

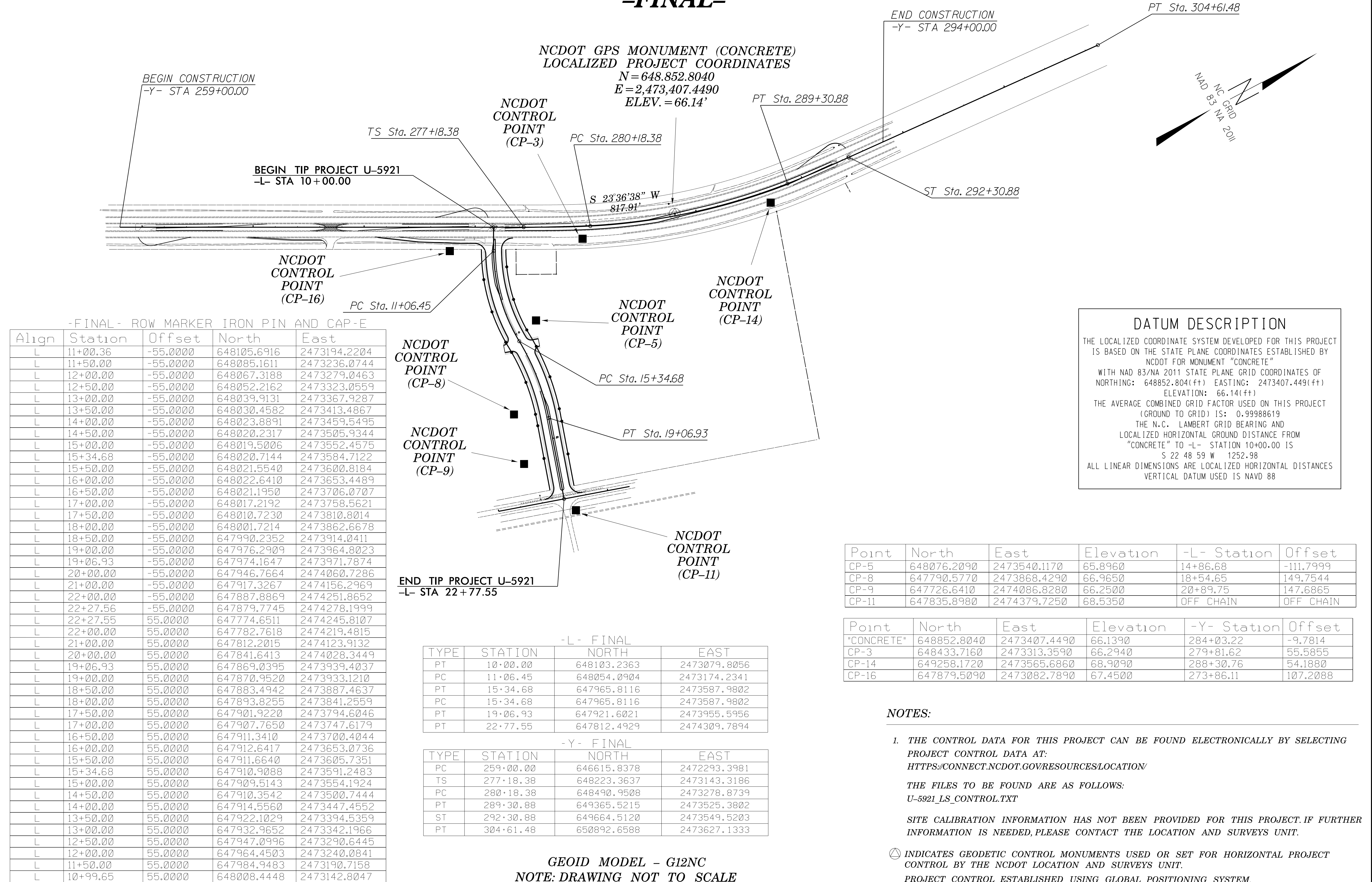
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----SS
Above Ground Sanitary Sewer	-----A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----FSS
SS Forced Main Line LOS C (S.U.E.*)	-----FSS
SS Forced Main Line LOS D (S.U.E.*)	-----FSS

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/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.

SURVEY CONTROL SHEET U-5931

-FINAL-



NCDOT GPS MONUMENT (CONCRETE)
LOCALIZED PROJECT COORDINATES
N = 648,852.8040
E = 2,473,407.4490
ELEV. = 66.14'

BEGIN CONSTRUCTION
-Y- STA 259+00.00

BEGIN TIP PROJECT U-5921
-L- STA 10+00.00

END CONSTRUCTION
-Y- STA 294+00.00

PT Sta. 304+61.48

TS Sta. 277+18.38

NCDOT CONTROL POINT (CP-3)

PC Sta. 280+18.38

PT Sta. 289+30.88

S 23°36'38" W
817.91'

ST Sta. 292+30.88

NCDOT CONTROL POINT (CP-16)

PC Sta. 11+06.45

NCDOT CONTROL POINT (CP-5)

NCDOT CONTROL POINT (CP-14)

-FINAL- ROW MARKER IRON PIN AND CAP-E

Align	Station	Offset	North	East
L	11+00.36	-55.0000	648105.6916	2473194.2204
L	11+50.00	-55.0000	648085.1611	2473236.0744
L	12+00.00	-55.0000	648067.3188	2473279.0463
L	12+50.00	-55.0000	648052.2162	2473323.0559
L	13+00.00	-55.0000	648039.9131	2473367.9287
L	13+50.00	-55.0000	648030.4582	2473413.4867
L	14+00.00	-55.0000	648023.8891	2473459.5495
L	14+50.00	-55.0000	648020.2317	2473505.9344
L	15+00.00	-55.0000	648019.5006	2473552.4575
L	15+34.68	-55.0000	648020.7144	2473584.7122
L	15+50.00	-55.0000	648021.5540	2473600.8184
L	16+00.00	-55.0000	648022.6410	2473653.4489
L	16+50.00	-55.0000	648021.1950	2473706.0707
L	17+00.00	-55.0000	648017.2192	2473758.5621
L	17+50.00	-55.0000	648010.7230	2473810.8014
L	18+00.00	-55.0000	648001.7214	2473862.6678
L	18+50.00	-55.0000	647990.2352	2473914.0411
L	19+00.00	-55.0000	647976.2909	2473964.8023
L	19+06.93	-55.0000	647974.1647	2473971.7874
L	20+00.00	-55.0000	647946.7664	2474060.7286
L	21+00.00	-55.0000	647917.3267	2474156.2969
L	22+00.00	-55.0000	647887.8869	2474251.8652
L	22+27.56	-55.0000	647879.7745	2474278.1999
L	22+27.55	55.0000	647774.6511	2474245.8107
L	22+00.00	55.0000	647782.7618	2474219.4815
L	21+00.00	55.0000	647812.2015	2474123.9132
L	20+00.00	55.0000	647841.6413	2474028.3449
L	19+06.93	55.0000	647869.0395	2473939.4037
L	19+00.00	55.0000	647870.9520	2473933.1210
L	18+50.00	55.0000	647883.4942	2473887.4637
L	18+00.00	55.0000	647893.8255	2473841.2559
L	17+50.00	55.0000	647901.9220	2473794.6046
L	17+00.00	55.0000	647907.7650	2473747.6179
L	16+50.00	55.0000	647911.3410	2473700.4044
L	16+00.00	55.0000	647912.6417	2473653.0736
L	15+50.00	55.0000	647911.6640	2473605.7351
L	15+34.68	55.0000	647910.9088	2473591.2483
L	15+00.00	55.0000	647909.5143	2473554.1924
L	14+50.00	55.0000	647910.3542	2473500.7444
L	14+00.00	55.0000	647914.5560	2473447.4552
L	13+50.00	55.0000	647922.1029	2473394.5359
L	13+00.00	55.0000	647932.9652	2473342.1966
L	12+50.00	55.0000	647947.0996	2473290.6445
L	12+00.00	55.0000	647964.4503	2473240.0841
L	11+50.00	55.0000	647984.9483	2473190.7158
L	10+99.65	55.0000	648008.4448	2473142.8047

NCDOT CONTROL POINT (CP-8)

NCDOT CONTROL POINT (CP-9)

PC Sta. 15+34.68

PT Sta. 19+06.93

NCDOT CONTROL POINT (CP-11)

END TIP PROJECT U-5921
-L- STA 22+77.55

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CONCRETE" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 648852.804(ft) EASTING: 2473407.449(ft) ELEVATION: 66.14(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988619
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CONCRETE" TO -L- STATION 10+00.00 IS S 22 48 59 W 1252.98
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Point	North	East	Elevation	-L- Station	Offset
CP-5	648076.2090	2473540.1170	65.8960	14+86.68	-111.7999
CP-8	647790.5770	2473868.4290	66.9650	18+54.65	149.7544
CP-9	647726.6410	2474086.8280	66.2500	20+89.75	147.6865
CP-11	647835.8980	2474379.7250	68.5350	OFF CHAIN	OFF CHAIN

Point	North	East	Elevation	-Y- Station	Offset
"CONCRETE"	648852.8040	2473407.4490	66.1390	284+03.22	-9.7814
CP-3	648433.7160	2473313.3590	66.2940	279+81.62	55.5855
CP-14	649258.1720	2473565.6860	68.9090	288+30.76	54.1880
CP-16	647879.5090	2473082.7890	67.4500	273+86.11	107.2088

-L- FINAL

TYPE	STATION	NORTH	EAST
PT	10+00.00	648103.2363	2473079.8056
PC	11+06.45	648054.0904	2473174.2341
PT	15+34.68	647965.8116	2473587.9802
PC	15+34.68	647965.8116	2473587.9802
PT	19+06.93	647921.6021	2473955.5956
PT	22+77.55	647812.4929	2474309.7894

-Y- FINAL

TYPE	STATION	NORTH	EAST
PC	259+00.00	646615.8378	2472293.3981
TS	277+18.38	648223.3637	2473143.3186
PC	280+18.38	648490.9508	2473278.8739
PT	289+30.88	649365.5215	2473525.3802
ST	292+30.88	649664.5120	2473549.5203
PT	304+61.48	650892.6588	2473627.1333

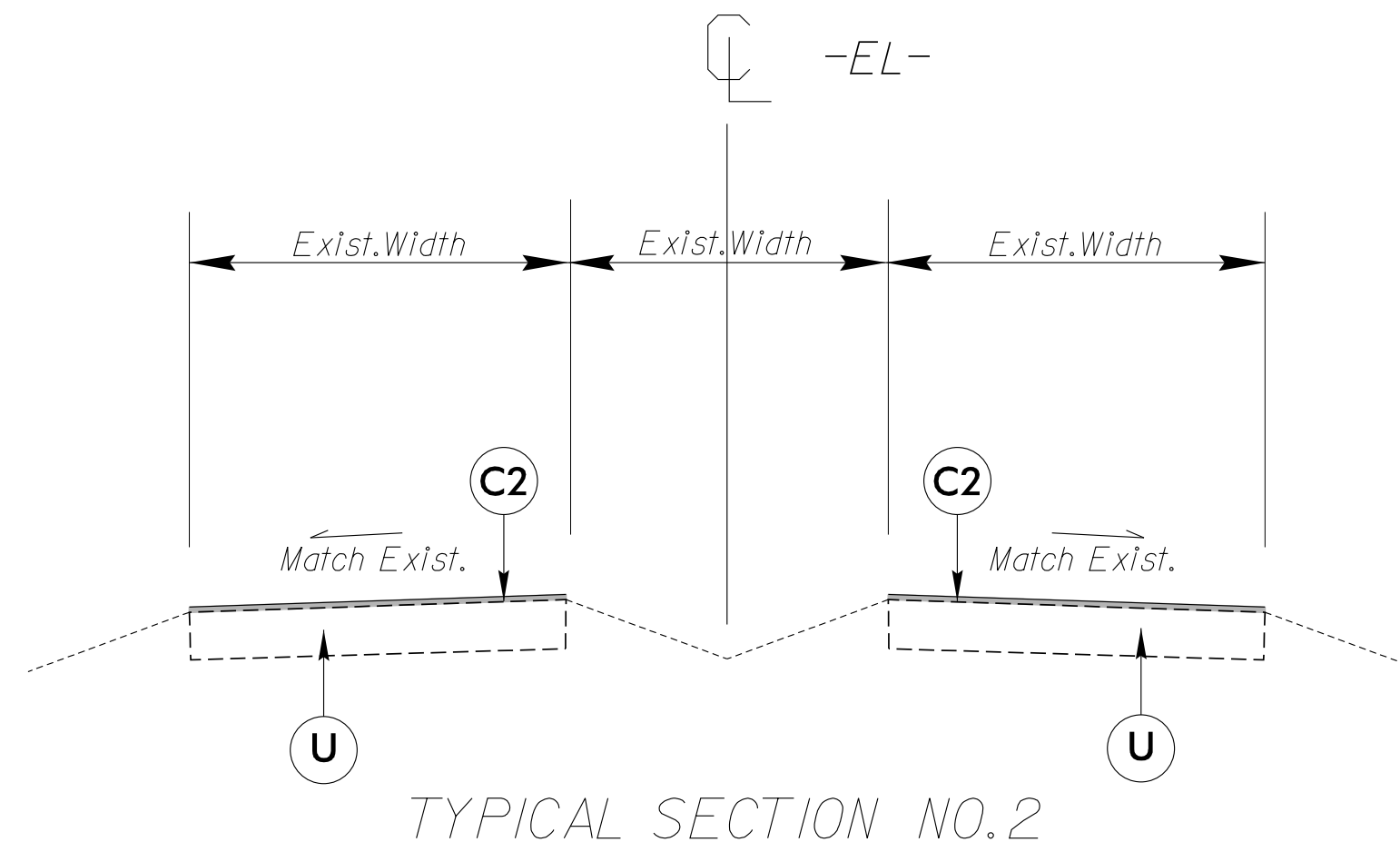
GEOID MODEL - G12NC
NOTE: DRAWING NOT TO SCALE

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION](https://connect.ncdot.gov/resources/location)
THE FILES TO BE FOUND ARE AS FOLLOWS:
U-5921_LS_CONTROL.TXT
- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

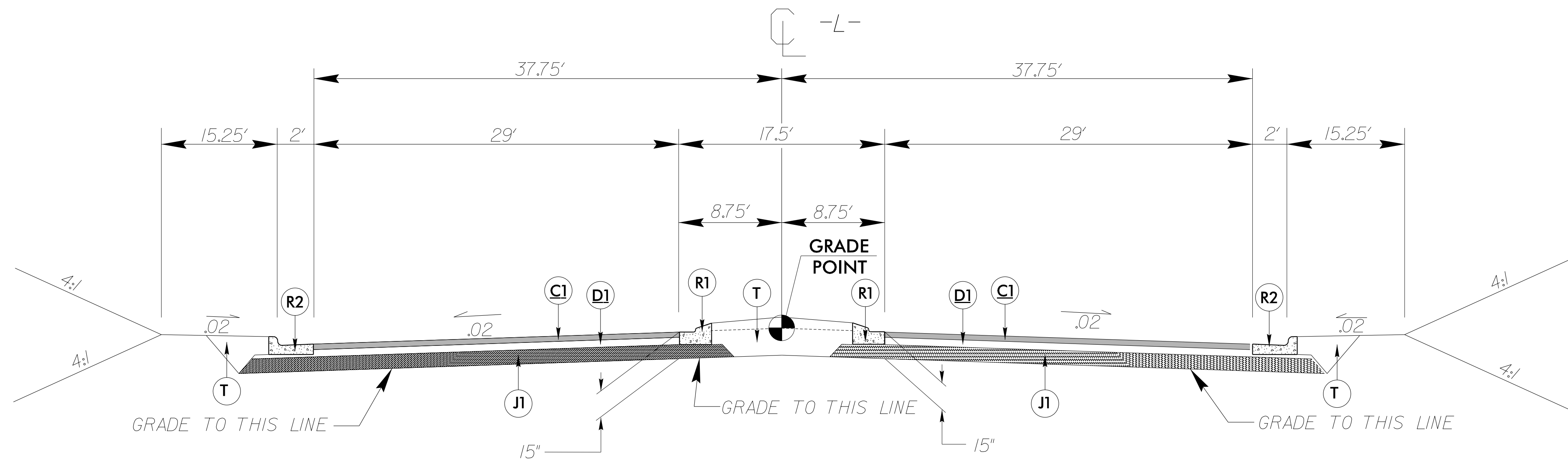
PROJECT REFERENCE NO. U-5921	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>David H. Allinger</i>	PAVEMENT ENGINEER <i>William J. ...</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE.
R1	1'-6" CONCRETE CURB AND GUTTER.
R2	2'-6" CONCRETE CURB AND GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.



USE TYPICAL SECTION NO. 2

- EL- STA. 259+00 to STA. 259+77
- EL- STA. 268+27 to STA. 270+43
- EL- STA. 292+34 to STA. 294+00



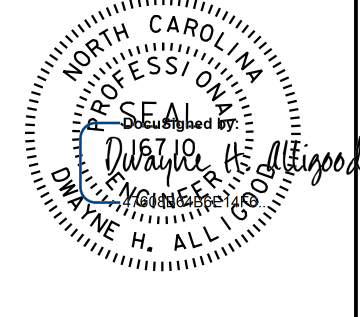
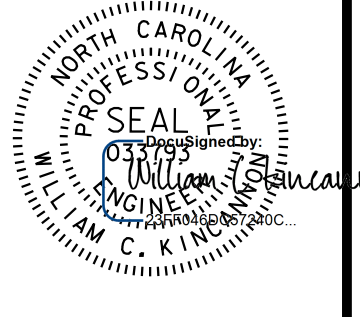
USE TYPICAL SECTION NO. 1

- L- STA. 10+47.54 to STA. 22+68.04

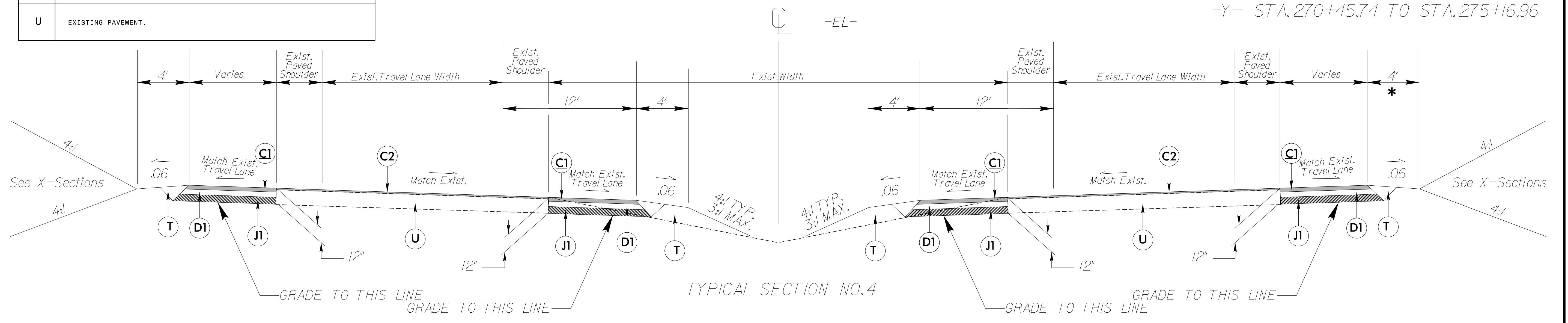
SYTIME
VOLUME
DRAWING

5/14/99

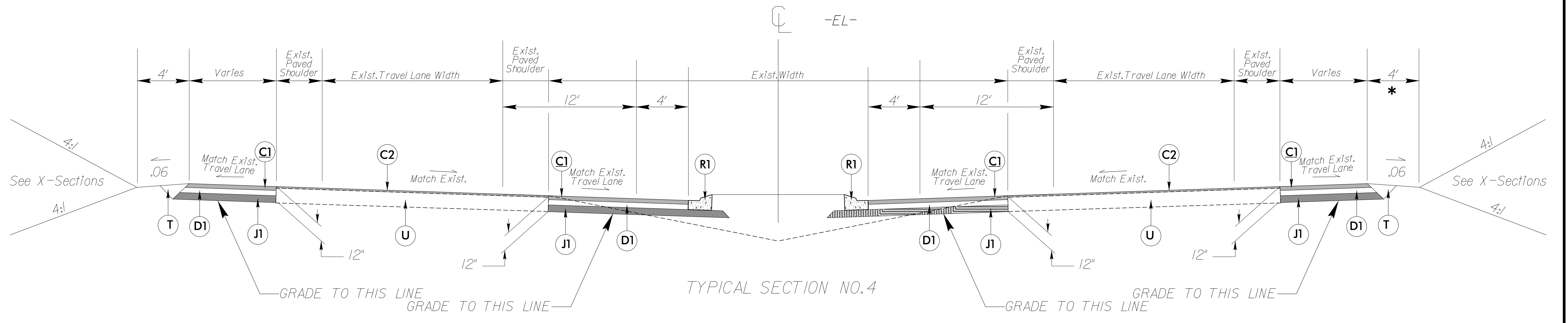
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE.
R1	1'-6" CONCRETE CURB AND GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO. U-5921	SHEET NO. 2A-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

* 4' PAVED SHOULDERS FROM:
-Y- STA.264+76.54 TO STA.268+12.55
2' PAVED SHOULDERS FROM:
-Y- STA.270+45.74 TO STA.275+16.96



USE TYPICAL SECTION NO. 4
-EL- STA.283+85 TO STA.292+34



USE TYPICAL SECTION NO. 3
-EL- STA.259+93 to STA.268+27
-EL- STA.270+43 to STA.283+85

SYTIME/DCN

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	SHALLOW UNDERCUT	EMBT + 25%	BORROW	WASTE
-L- Sta. 11+00.00 to 22+00.00	2,682	2,906	1,163		4,425
-Y- Sta. 260+00.00 to 292+00.00	2,389	1,194	5,532	3,143	1,194
SUBTOTAL	5,071	4,100	6,694	3,143	5,619
WASTE IN LIEU OF BORROW				-1,519	-1,519
PROJECT TOTAL	5,071	4,100	6,694	1,624	4,100
5% FOR BORROW PIT				81	
GRAND TOTAL	5,071	4,100	6,694	1,705	4,100
SAY	5,080	4,100	6,700	1,710	4,100

NOTES PER GEOTECHNICAL REPORT:
 SELECT GRANULAR MATERIAL=600 CY CONTINGENCY
 PER GEOTECH RECOMMENDATION, ESTIMATED 400 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.
 PER GEOTECH RECOMMENDATION, ADDITIONAL 300 CUBIC YARDS OF SHALLOW UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

SUMMARY OF PAVEMENT REMOVAL
 (IN SQUARE YARDS)

STATION	STATION	LOCATION	ASPHALT PAVEMENT REMOVAL	ASPHALT PAVEMENT BREAKUP	CONCRETE PAVEMENT REMOVAL	CONCRETE PAVEMENT BREAKUP
267+56 -Y-	269+35 -Y-	CL (MEDIAN)	269			
		TOTAL	269			
		SAY	270			

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
L	10+96	22+41	LT AND RT	SD	2300
CONTINGENCY					200
TOTAL LF:					2500

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
VARIES	VARIES	VARIES	ASU	12"	4100	8100	12800	NA	NA
CONTINGENCY					300	600	200		
TOTAL CY/TONS/SY:					4400	8700	13000**	0	0

*ASU = Aggregate Subgrade
 *AST = Aggregate Stabilization

**Total square yards of "Geotextile for Soil Stabilization" is only the estimated quantity for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

5/19/06 \$\$\$\$\$\$ SYSTEMS \$\$\$\$\$\$

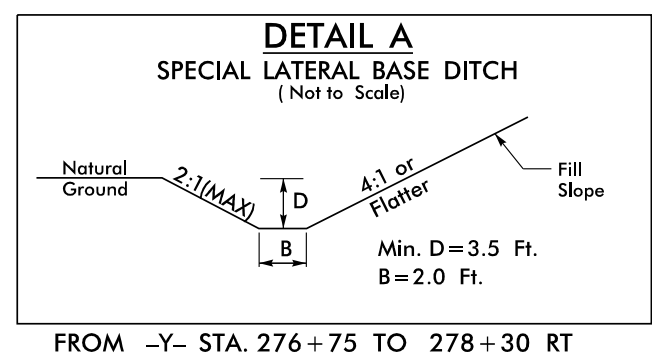
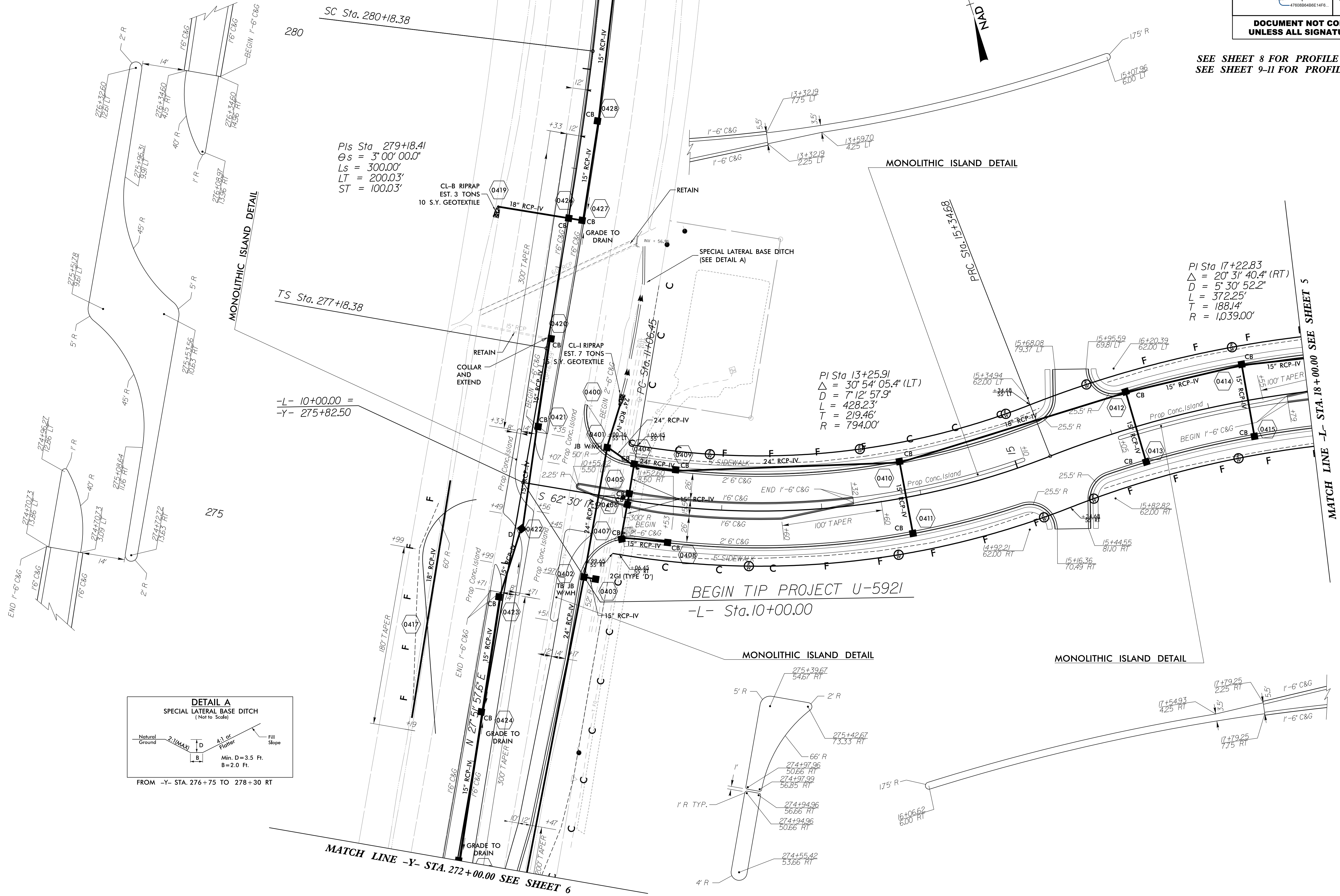
8/17/99

MATCH LINE -Y- STA. 272+00.00 SEE SHEET 7

PROJECT REFERENCE NO. U-5921		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SEE SHEET 8 FOR PROFILE OF LINE -L-
SEE SHEET 9-11 FOR PROFILE OF LINE -Y-

REVISIONS



MATCH LINE -Y- STA. 272+00.00 SEE SHEET 6

MATCH LINE -L- STA. 18+00.00 SEE SHEET 5

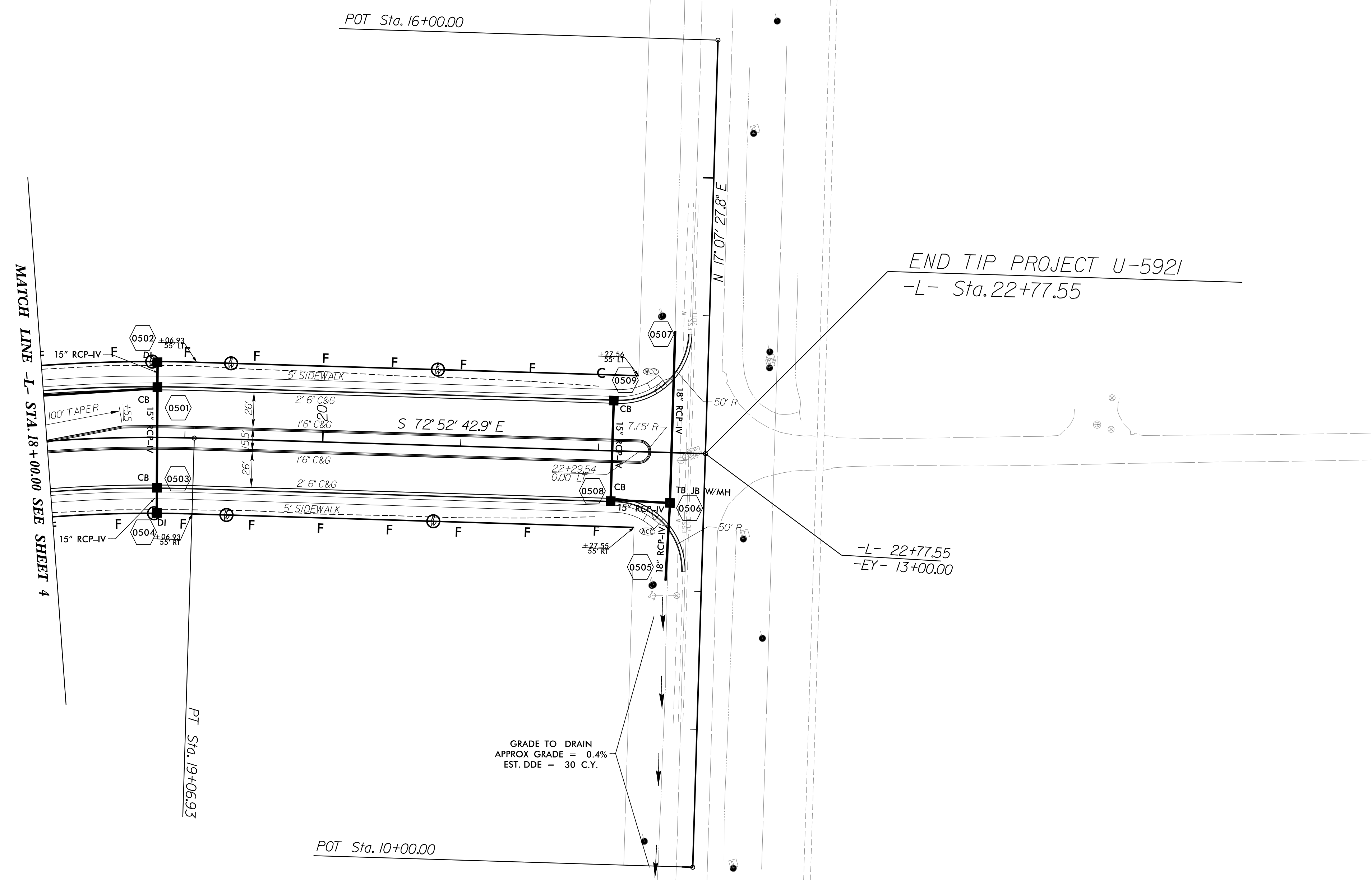
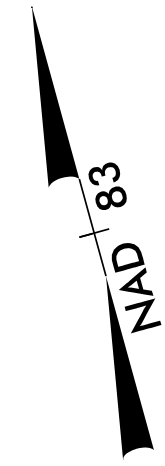
8/17/99

REVISIONS

SYSTEMS

PROJECT REFERENCE NO. U-5921		SHEET NO. 5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SEE SHEET 8 FOR PROFILE OF LINE -L-



END TIP PROJECT U-5921
-L- Sta. 22+77.55

-L- 22+77.55
-EY- 13+00.00

GRADE TO DRAIN
APPROX GRADE = 0.4%
EST. DDE = 30 C.Y.

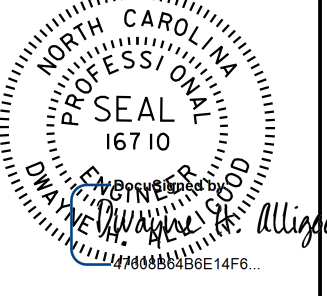
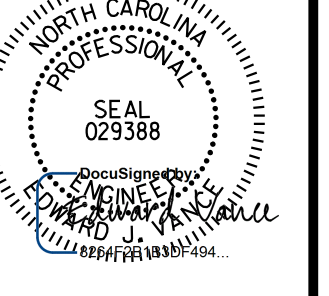
MATCH LINE -L- STA. 18+00.00 SEE SHEET 4

POT Sta. 16+00.00

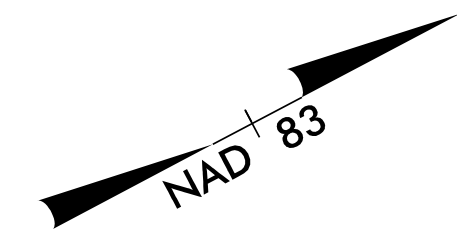
POT Sta. 10+00.00

PT Sta. 19+06.93

8/17/99

PROJECT REFERENCE NO. U-5921		SHEET NO. 6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

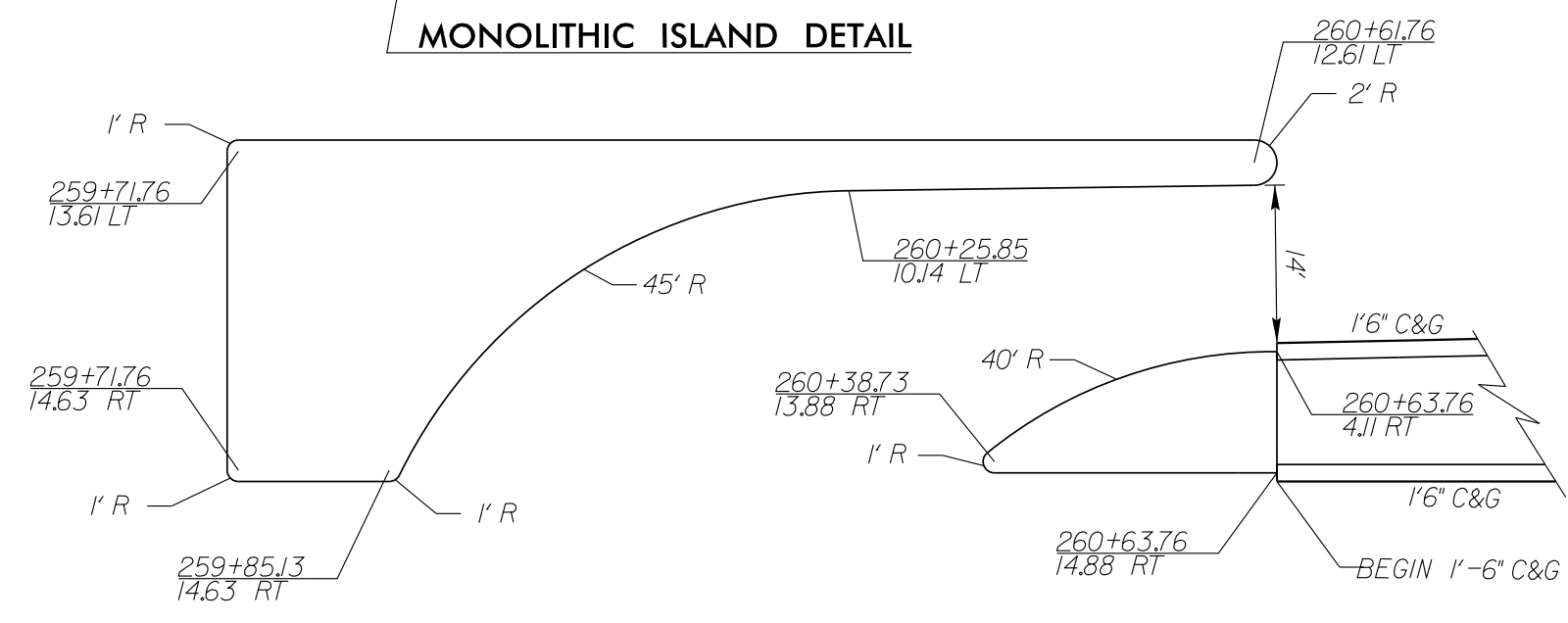
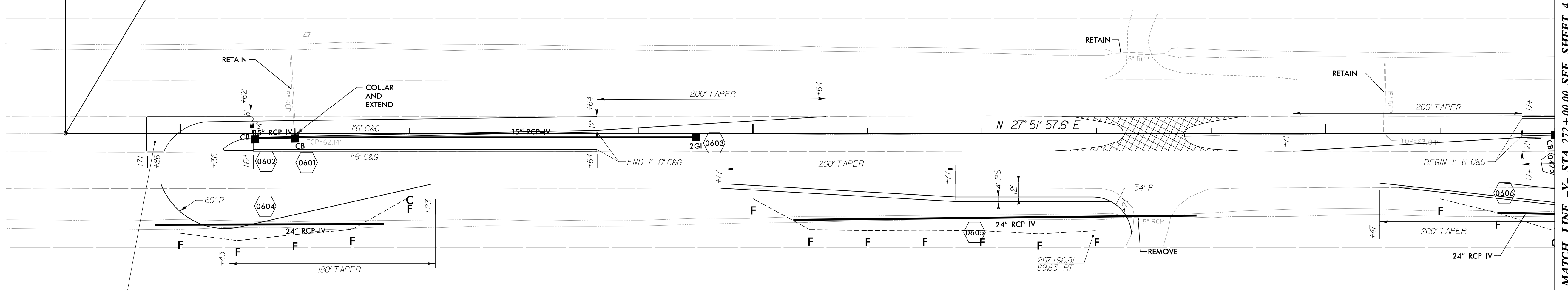
SEE SHEET 9-11 FOR PROFILE OF LINE -Y-



260 265 270

POT. Sta. 259+00.00

BEGIN CONSTRUCTION
-Y- Sta. 259+00.00


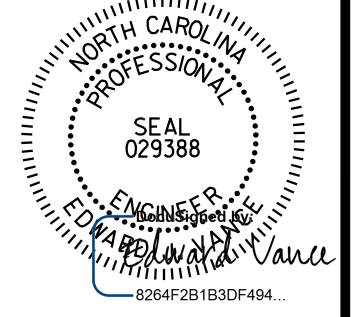


REVISIONS

MATCH LINE -Y- STA. 272 + 00.00 SEE SHEET 4

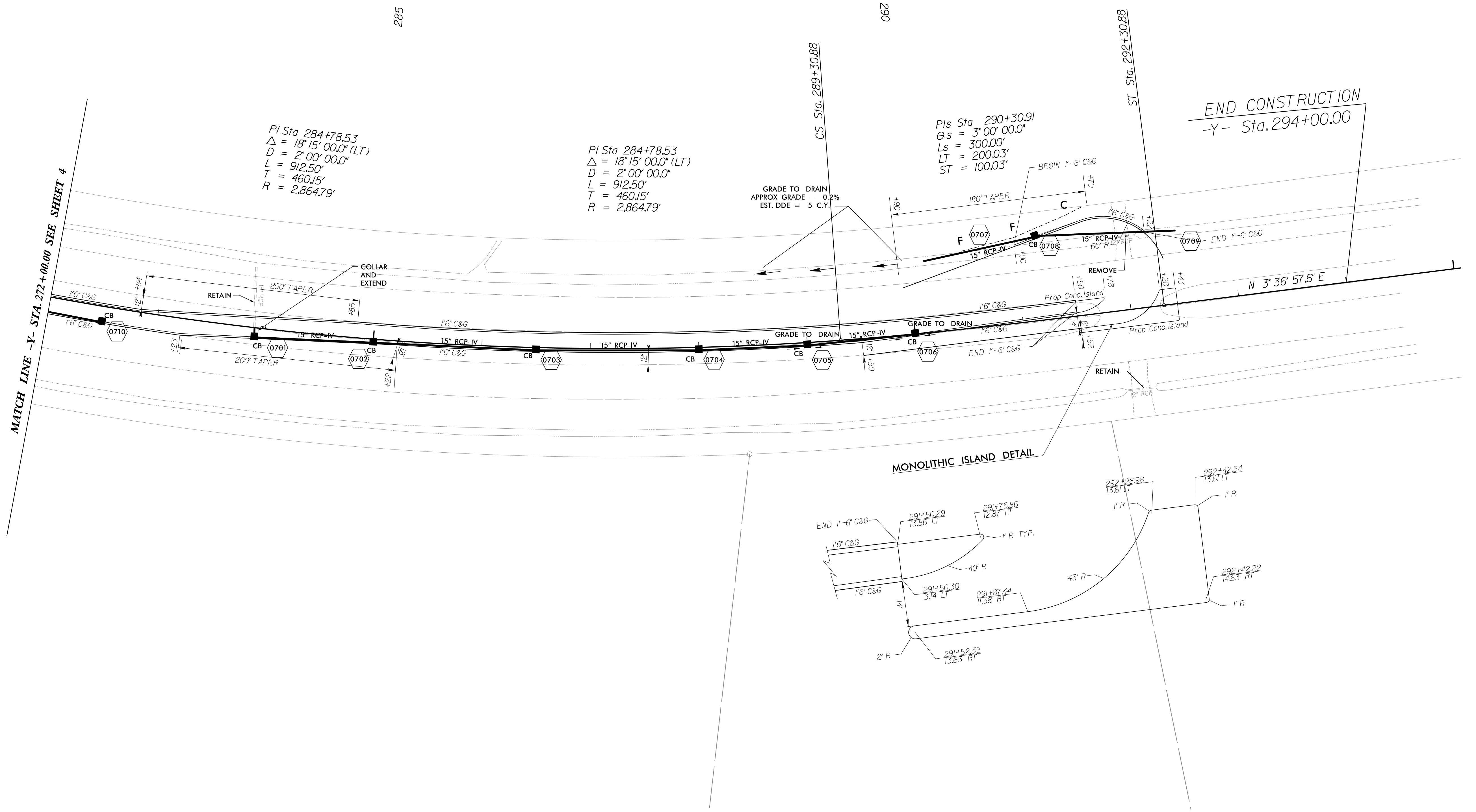
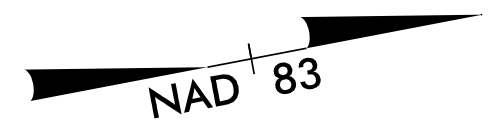
SYSTEMS ENGINEER

8/17/99

PROJECT REFERENCE NO. U-5921		SHEET NO. 7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

SEE SHEET 9-11 FOR PROFILE OF LINE -Y-

295



PI Sta 284+78.53
 $\Delta = 18' 15'' 00.0''$ (LT)
 $D = 2' 00'' 00.0''$
 $L = 912.50'$
 $T = 460.15'$
 $R = 2,864.79'$

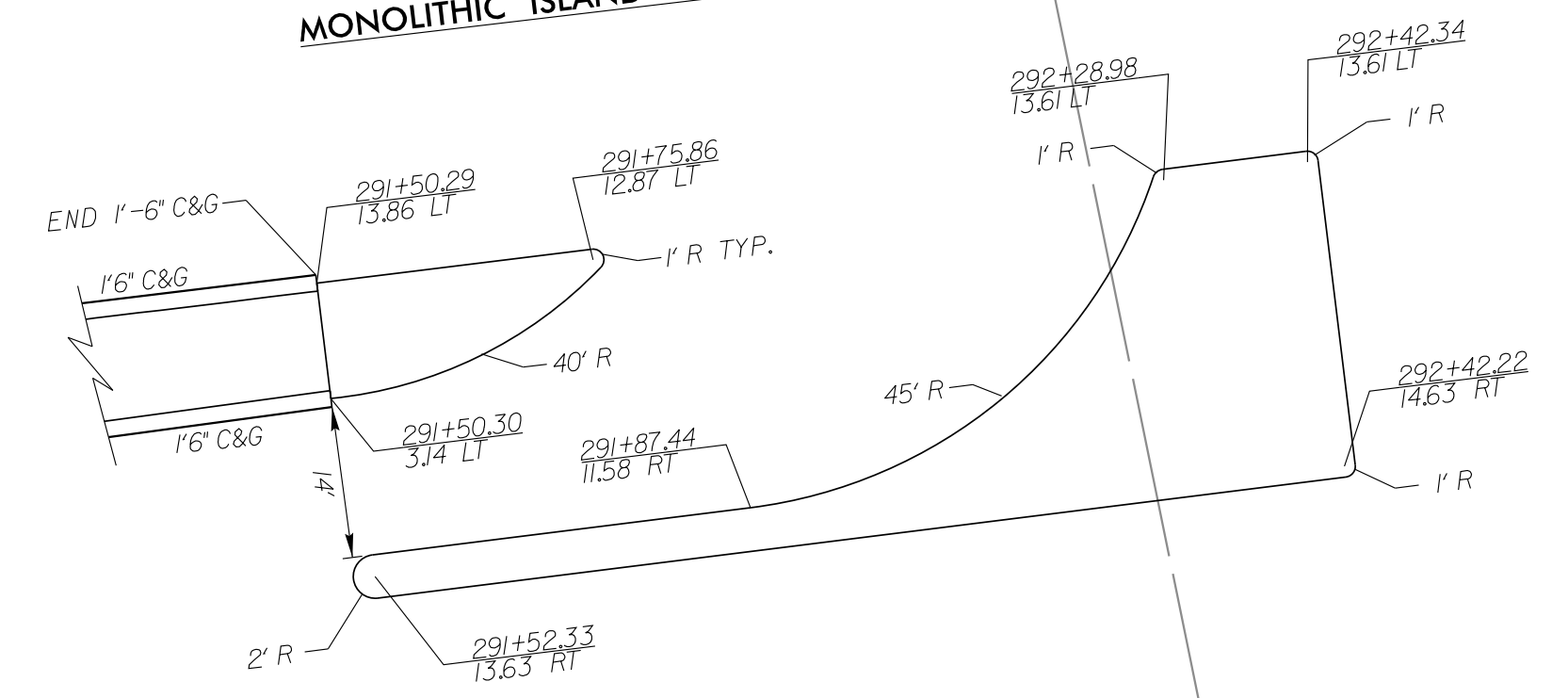
PI Sta 284+78.53
 $\Delta = 18' 15'' 00.0''$ (LT)
 $D = 2' 00'' 00.0''$
 $L = 912.50'$
 $T = 460.15'$
 $R = 2,864.79'$

PIs Sta 290+30.91
 $\Theta s = 3' 00'' 00.0''$
 $Ls = 300.00'$
 $LT = 200.03'$
 $ST = 100.03'$

END CONSTRUCTION
 -Y- Sta. 294+00.00

GRADE TO DRAIN
 APPROX GRADE = 0.2%
 EST. DDE = 5 C.Y.

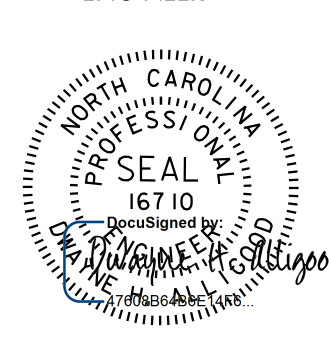

MONOLITHIC ISLAND DETAIL

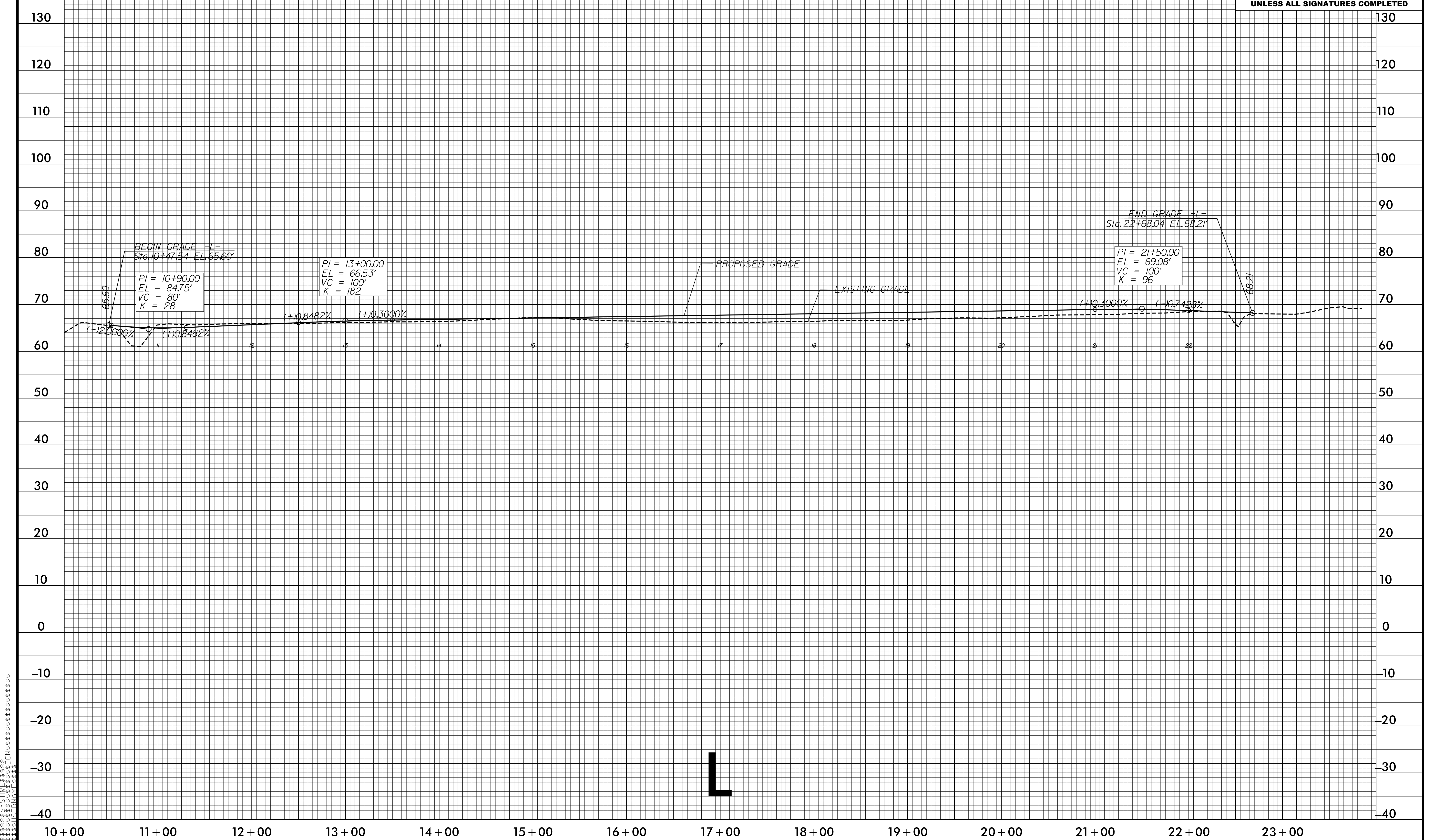


REVISIONS

SYTIME\$\$\$\$\$
\$\$\$\$\$SYTIME\$\$\$\$\$

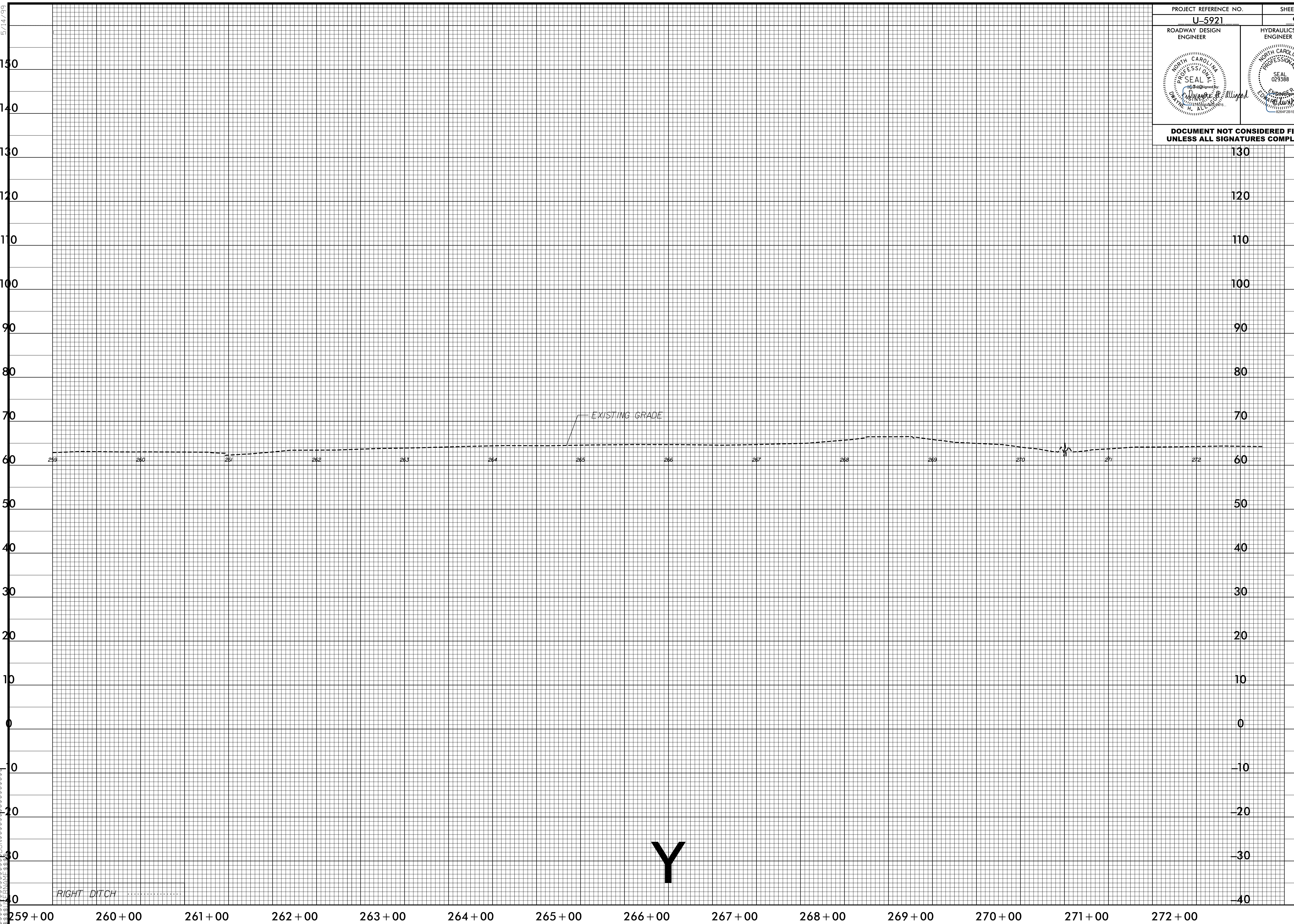
5/14/99

PROJECT REFERENCE NO. U-5921		SHEET NO. 8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



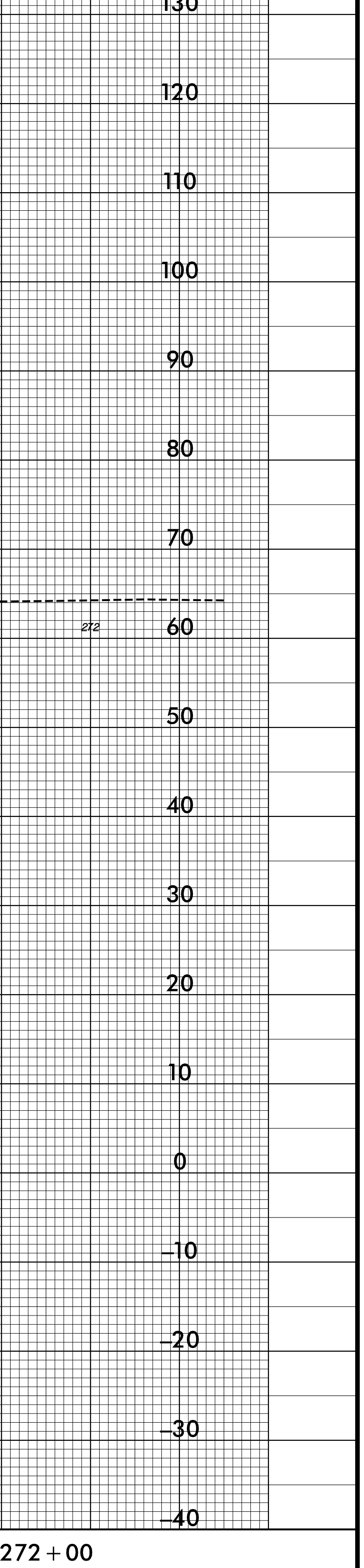
SYSTEMS
TIME
DOWN

5/14/99
SYSTEMS
CONSTRUCTION



PROJECT REFERENCE NO. U-5921	SHEET NO. 9
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>

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

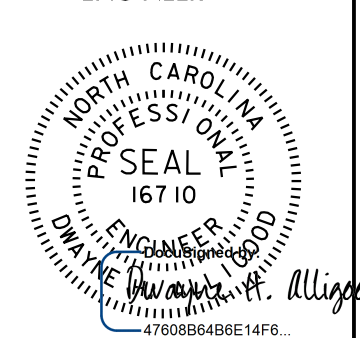
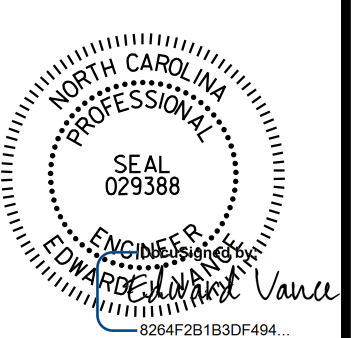


Y

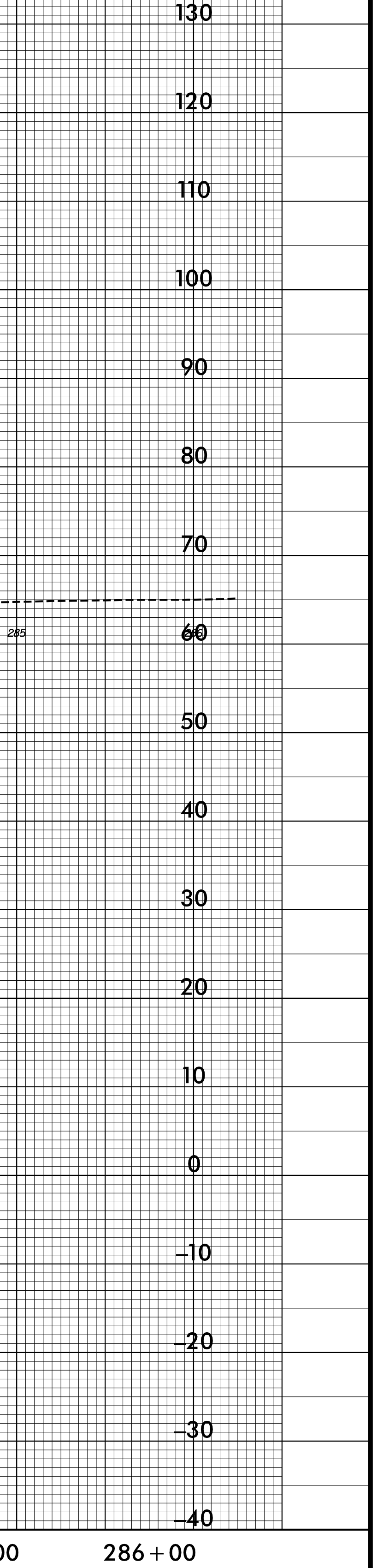
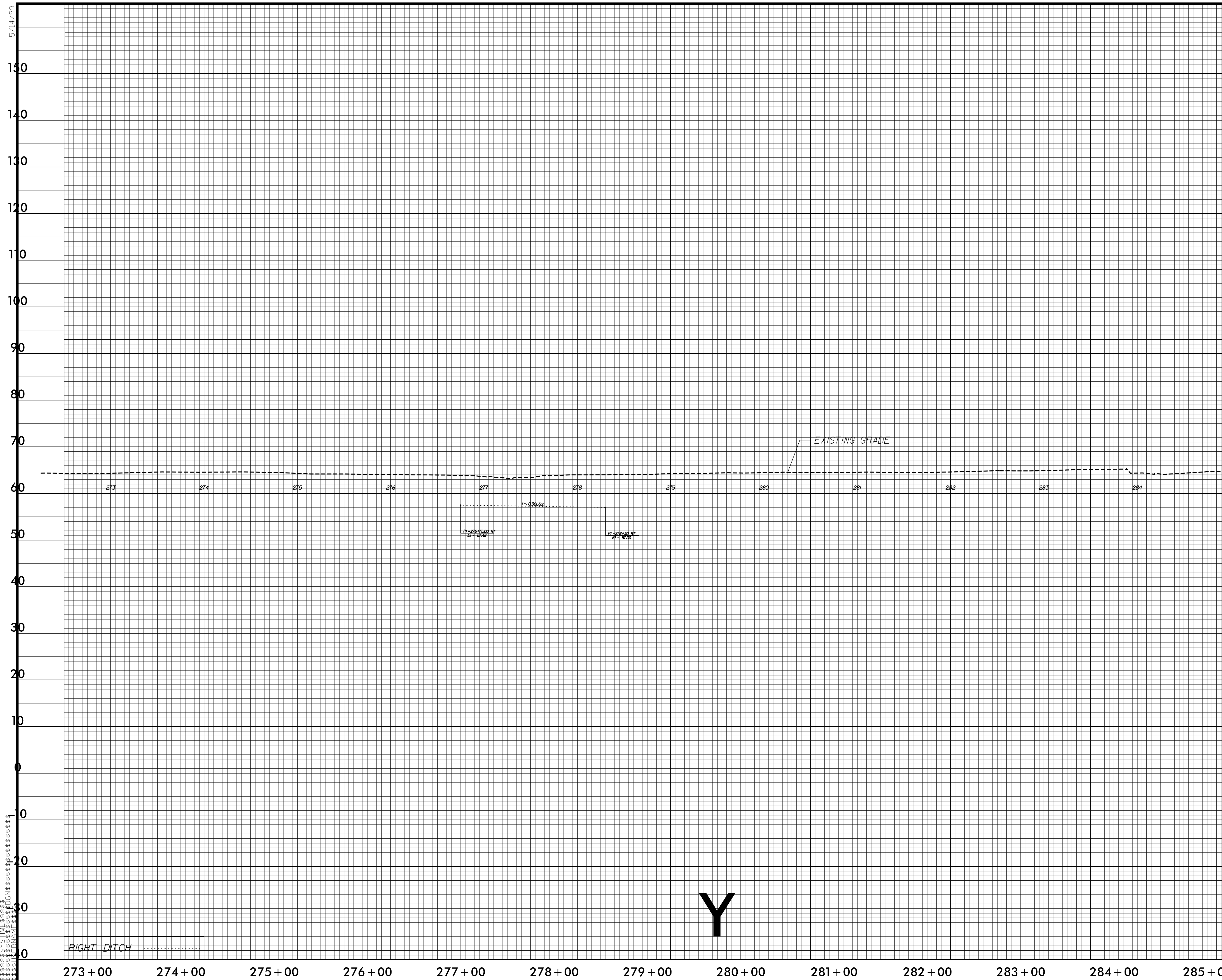
RIGHT DITCH

259+00	260+00	261+00	262+00	263+00	264+00	265+00	266+00	267+00	268+00	269+00	270+00	271+00	272+00
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5/14/99
SYSTEMS
CONSTRUCTION

PROJECT REFERENCE NO. U-5921	SHEET NO. 10
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

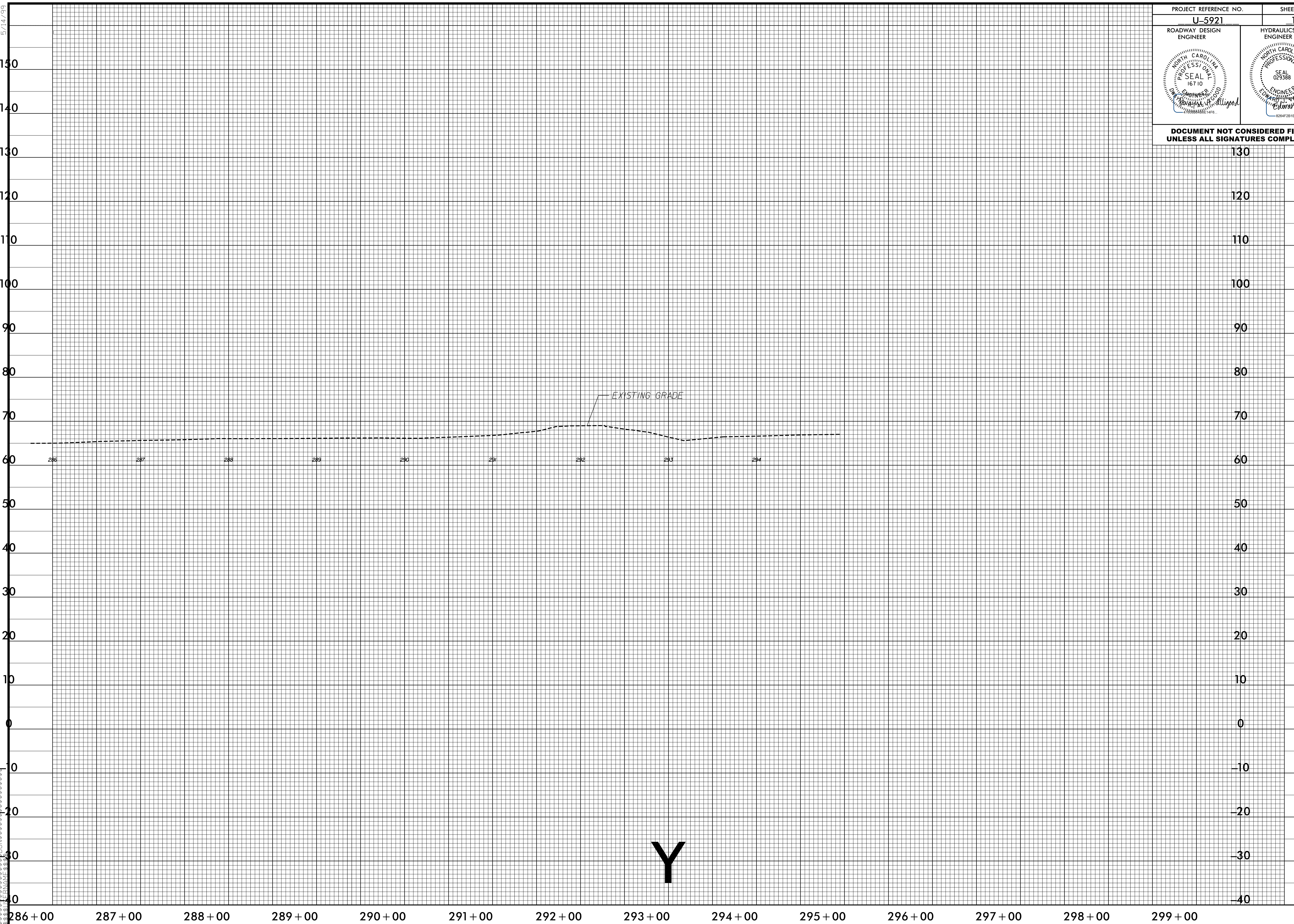
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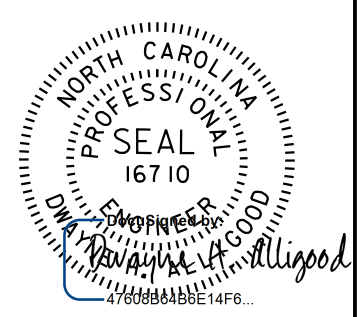
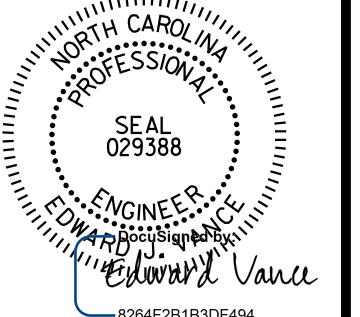


273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00

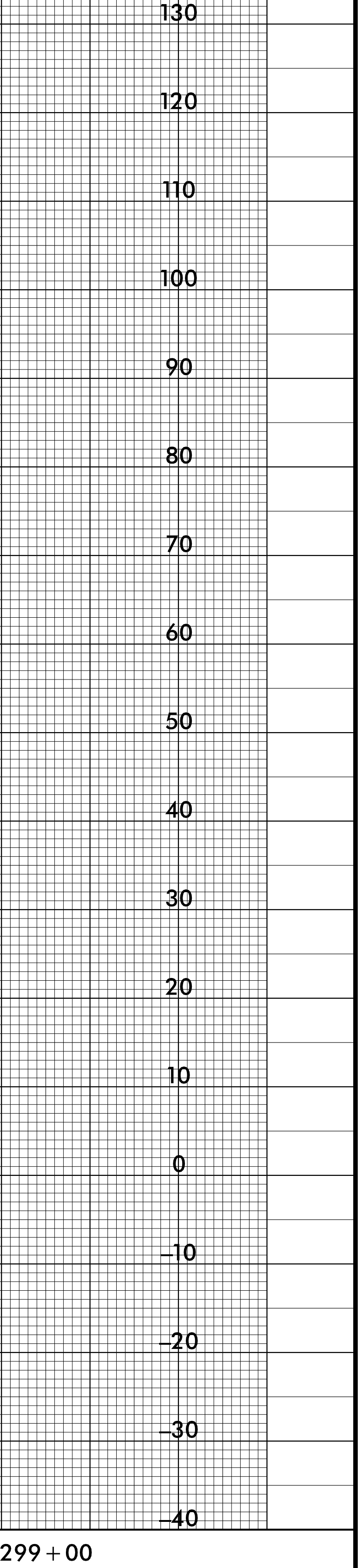
Y

5/14/99
SYSTEMS
CONSTRUCTION



PROJECT REFERENCE NO. U-5921	SHEET NO. 11
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

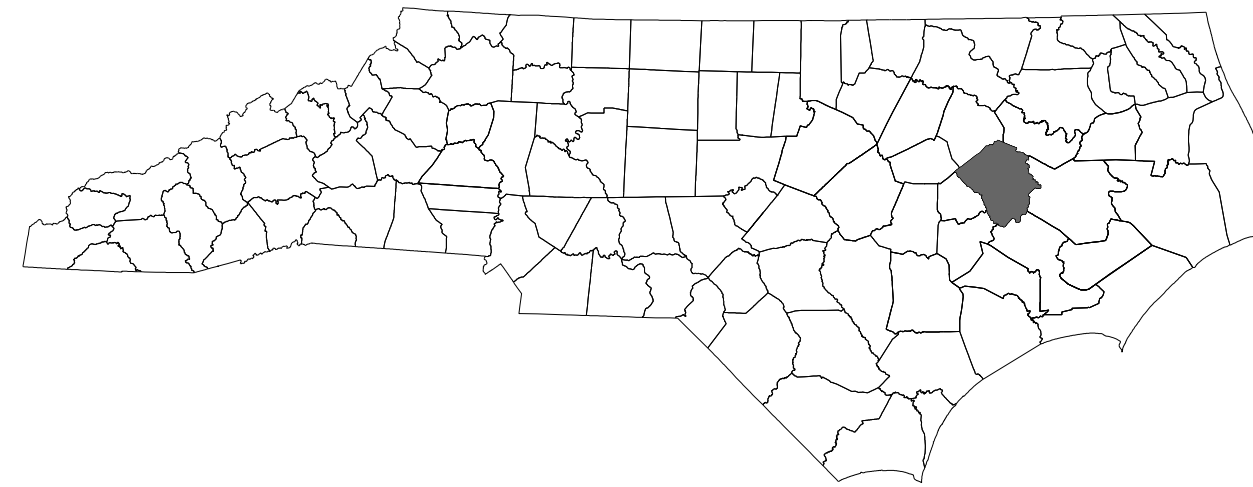


Y

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

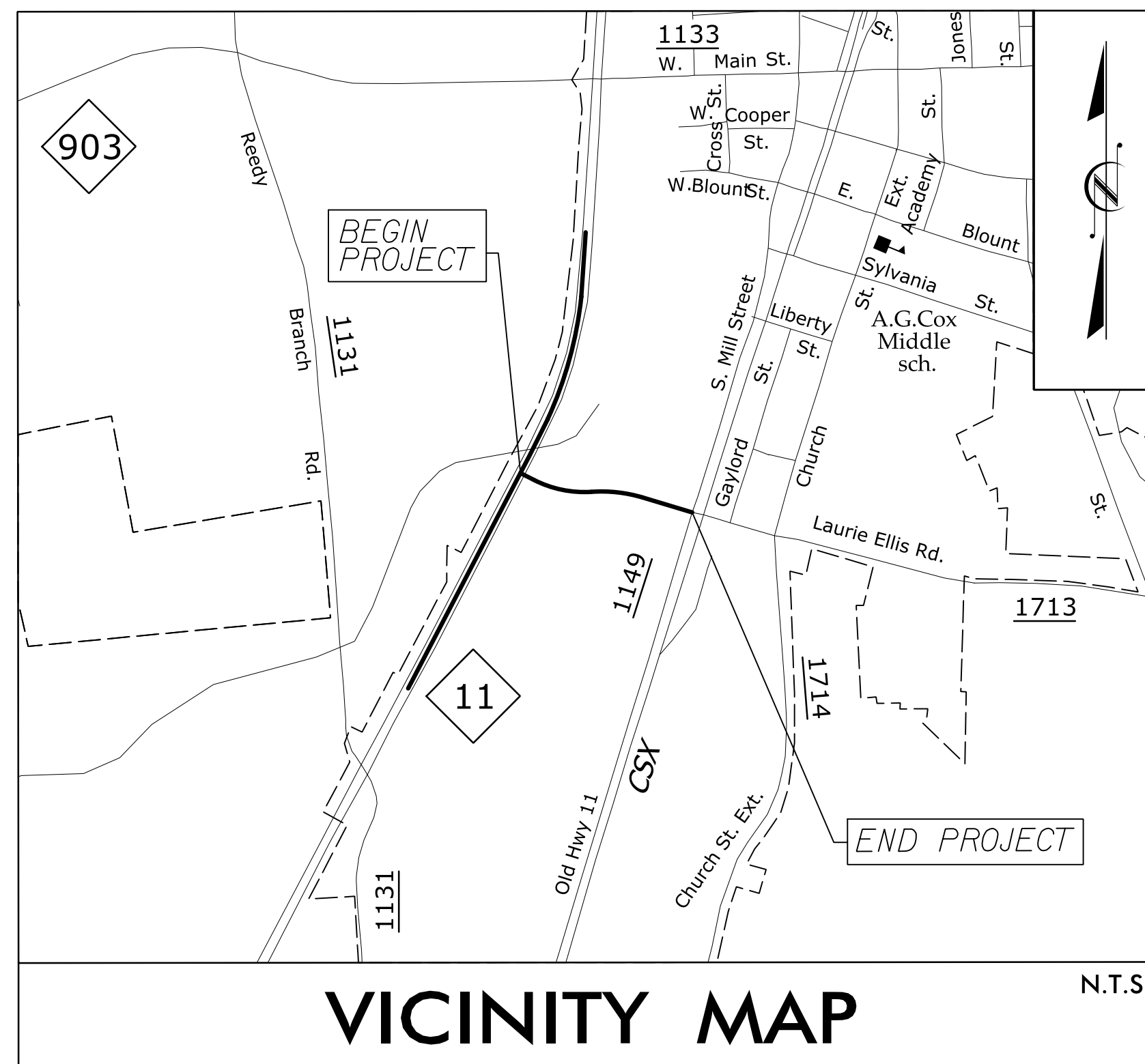
TRANSPORTATION MANAGEMENT PLAN

PITT COUNTY



**LOCATION: SR 1713 (LAURIE ELLIS ROAD) FROM NC-11
(WINTERVILLE PARKWAY) TO SR 1149 (OLD NC-11)**

TYPE OF WORK: GRADING, PAVING, & DRAINAGE



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU 6	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-7 THRU 9	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS

SHEET NO.
TMP-1

05/04/17 DATE SUBMITTED

SUBMITTAL:

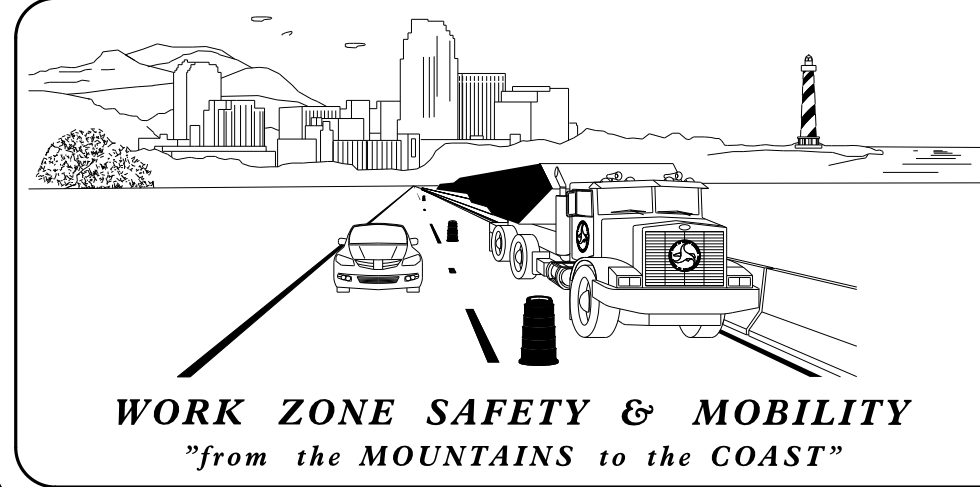
STAGING CONCEPT

MIDPOINT

PRE-FINAL

FINAL

R:\Roadway\Proj\NCTCP\CP Sheets\U5921\TC_TMP_01.dgn 5/4/2017



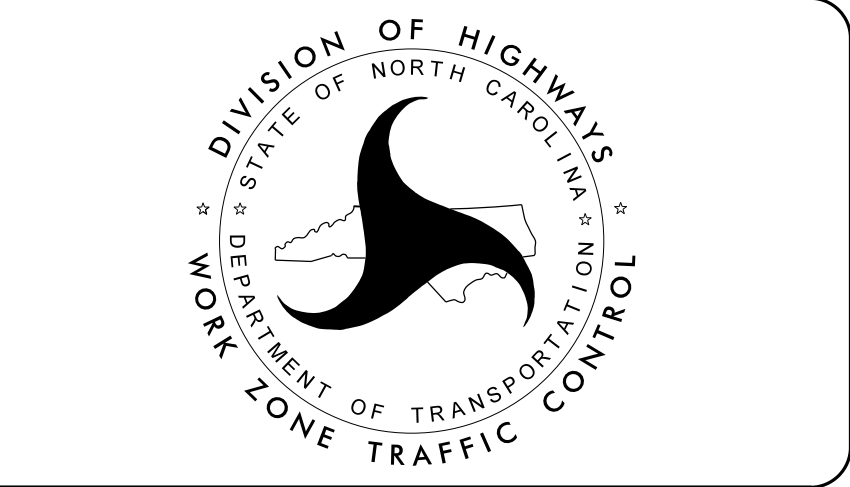
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER STATE TRAFFIC MANAGEMENT ENGINEER

TRAFFIC CONTROL PROJECT ENGINEER

TRAFFIC CONTROL PROJECT DESIGN ENGINEER

TRAFFIC CONTROL DESIGN ENGINEER



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

JOSEPH A. FREEMAN, PE
TRAFFIC ENGINEER

ETHAN P. WRIGHT, EI
TRANSPORTATION DESIGNER

APPROVED: *Joseph A. Freeman*
DATE: 5/4/2017

TIP PROJECT: U-5921

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL/BREAKING OF PAVEMENT
- ONGOING CONSTRUCTION

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

5/4/2017 R:\Roadway\Proj\TCP\TCP_Sheets\U592L_TC_TMP_01A.dgn wrightep

APPROVED:			<p>ROADWAY STANDARD DRAWINGS & LEGEND</p>
DATE: 5/4/2017			
<p>SEAL</p>		<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

PROJ. REFERENCE NO.	SHEET NO.
U-5921	TMP-2



MANAGEMENT STRATEGIES

PROPOSED LAURIE ELLIS ROAD AND IMPROVEMENTS TO NC-11 WILL BE CONSTRUCTED USING A COMBINATION OF LANE CLOSURES AND UTILIZING FLAGGERS AS NEEDED.

GENERAL NOTES

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

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC-11	ALL WEEK 7:00 A.M. TO 9:00 A.M. ALL WEEK 4:00 P.M. TO 6:00 P.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

ALL ROADS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

PAVEMENT MARKINGS AND MARKERS

N) INSTALL TEMPORARY PAVEMENT MARKINGS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	RAISED

- O) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- P) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION

TRAFFIC CONTROL DEVICES

Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

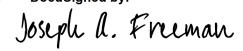
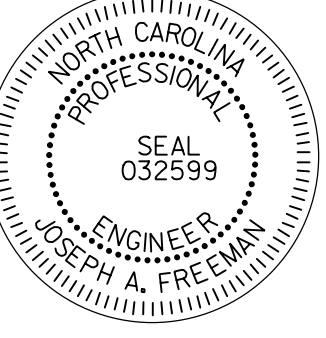
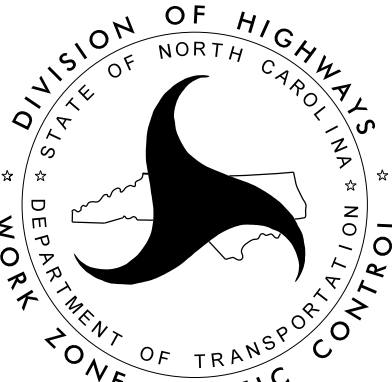
MISCELLANEOUS

- R) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- S) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 200FT AND 400FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

LOCAL NOTES

- T) NOTIFY PITT COUNTY EMERGENCY SERVICES (252)-902 3950 AND PUBLIC SCHOOLS (252)-830 4200 AT LEAST THIRTY DAYS PRIOR TO ROAD CLOSURE.
- U) THE CONTRACTOR SHALL BUILD AS MUCH AS POSSIBLE AWAY FROM TRAFFIC.

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<p>APPROVED: </p> <p>DATE: 5/4/2017</p> <p>SEAL</p> 		<p>TRANSPORTATION OPERATIONS PLAN</p>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>		

PROJ. REFERENCE NO.	SHEET NO.
U-5921	TMP-3



PHASING NOTES

NOTE:

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS WITHIN THE PROJECT LIMITS AND COORDINATE AS NECESSARY WITH PROPERTY OWNERS FOR ALL PHASES OF TRAFFIC. CONTRACTOR SHALL MAINTAIN ACCESS TO CELL PHONE TOWER LOCATED ADJACENT TO NC-11 FOR ALL PHASES OF TRAFFIC.

PHASE I

STEP 1:

INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.01, SHEET 1 THRU 3.

STEP 2:

AWAY FROM TRAFFIC OR USING RSD 1101.02 SHEET 4 OF 15 AND FLAGGERS AS NEEDED, PERFORM THE FOLLOWING AS SHOWN ON TMP-4:

- A) PERFORM THE PROPOSED UNDERCUT FOR THE OUTSIDE WIDENING ON -Y-.
- B) CONSTRUCT PROPOSED DRAINAGE, GRADING, AND OUTSIDE WIDENING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FOR THE FOLLOWING STATION RANGES:
 - Y- STA. 259+85 TO STA. 262+21 (RT)
 - Y- STA. 264+82 TO STA. 268+27 (RT)
 - Y- STA. 270+47 TO STA. 276+70 (RT)
 - Y- STA. 273+19 TO STA. 275+57 (LT)
 - Y- STA. 289+92 TO STA. 292+34 (LT)
- C) UNDER NIGHT TIME RESTRICTIONS (9 PM - 6 AM) CONSTRUCT PROPOSED CROSS-PIPE AT -Y- STA. 278+50 +/-.
- D) PERFORM THE PROPOSED UNDERCUT ON -L-.
- E) CONSTRUCT PROPOSED DRAINAGE, GRADING, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 10+47.54 TO STA. 22+65.56.

PHASE II

STEP 1:

USING RSD 1101.02 SHEET 4 OF 15 AND FLAGGERS AS NEEDED, PERFORM THE FOLLOWING AS SHOWN ON TMP-5:

- A) PERFORM THE PROPOSED UNDERCUT FOR THE INSIDE WIDENING ON -Y-.
- B) CONSTRUCT PROPOSED DRAINAGE, GRADING, CURB & GUTTER, AND INSIDE WIDENING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FOR THE FOLLOWING STATION RANGES:
 - Y- STA. 259+71 TO STA. 265+65
 - Y- STA. 269+65 TO STA. 292+43

PHASE III

STEP 1:

USING RSD 1101.02 SHEET 4 OF 15 AND FLAGGERS AS NEEDED, PERFORM THE FOLLOWING:

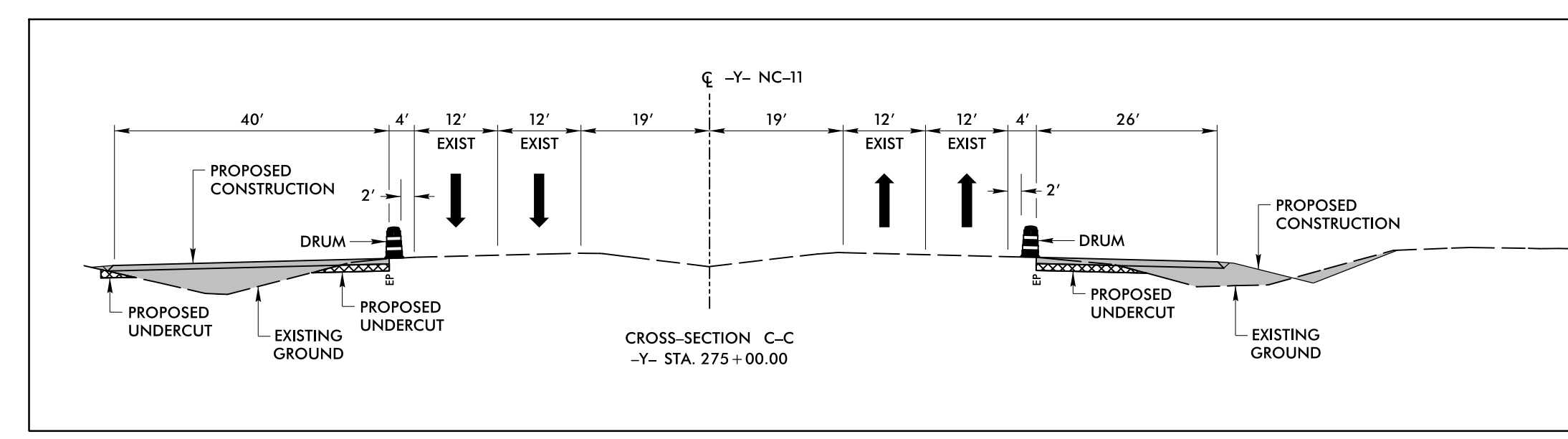
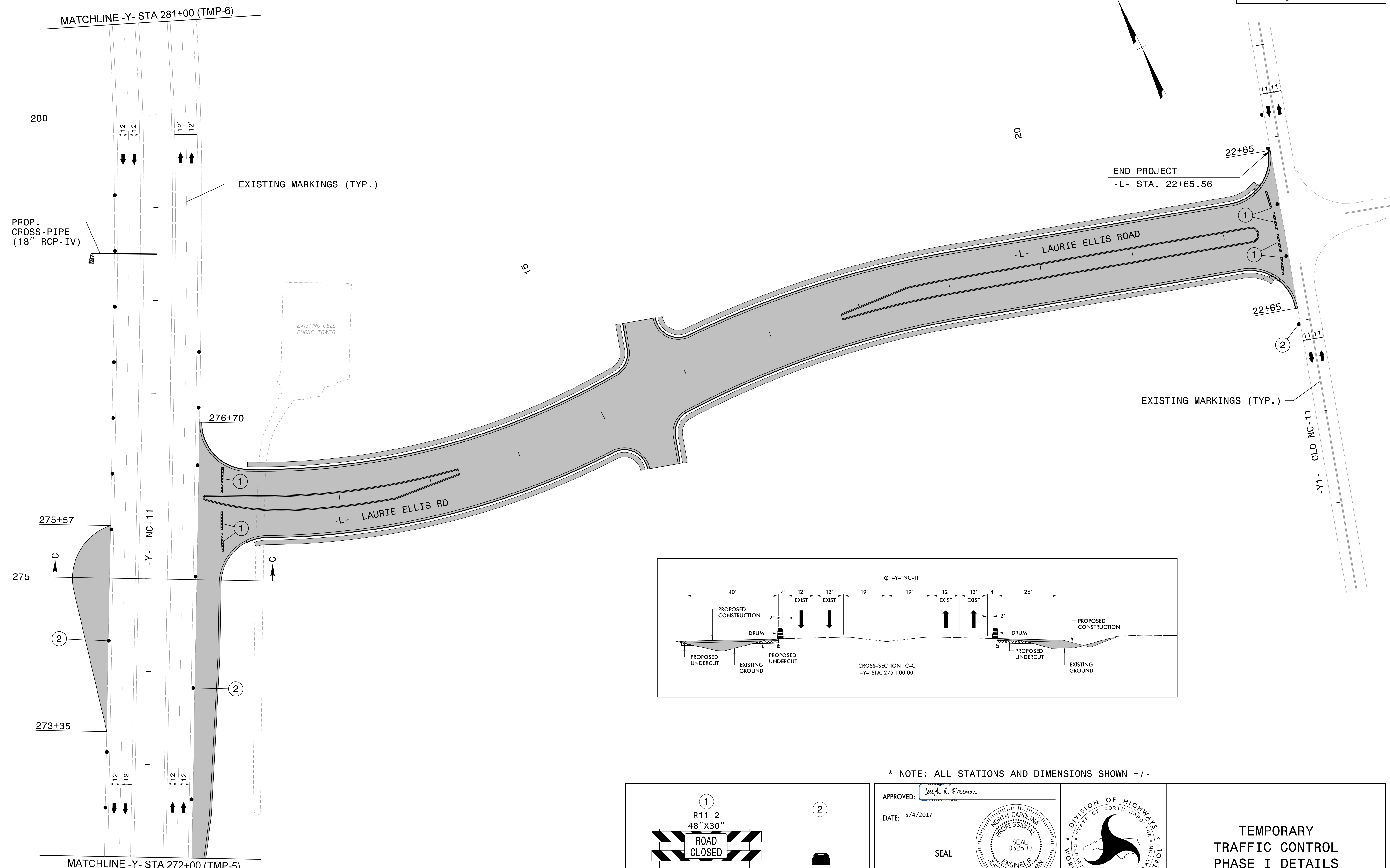
- A) CONSTRUCT MONOLITHIC CONCRETE ISLANDS AT THE FOLLOWING STATION RANGES:
 - Y- STA. 259+71 TO STA. 260+64
 - Y- STA. 274+71 TO STA. 276+35
 - Y- STA. 291+50 TO STA. 292+43
 - Y- STA. 272+24 TO STA. 275+57 (RT)
- B) REMOVE EXISTING ASPHALT PAVEMENT IN MEDIAN ON NC-11 FROM +/- -Y- STA. 267+78 TO STA. 269+15.
- C) INSTALL FINAL LAYER OF SURFACE COURSE AND PERMANENT PAVEMENT MARKINGS & MARKERS (PER PAVEMENT MARKING PLANS) ON -Y- AND -L-.

STEP 2:

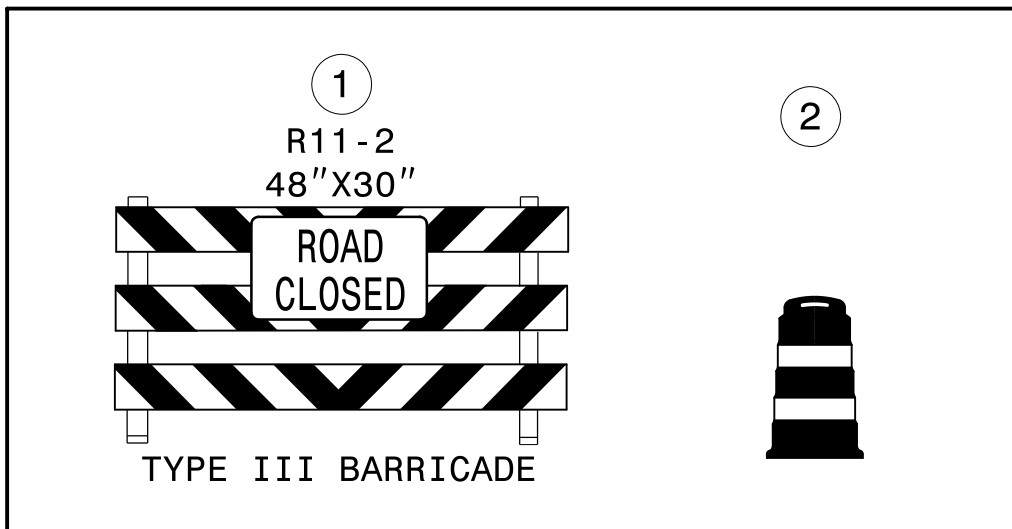
REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN ALL ROADS TO FINAL TRAFFIC PATTERN.

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APPROVED: DATE: 5/4/2017 SEAL			<h2 style="margin: 0;">PHASING NOTES</h2>
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* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-



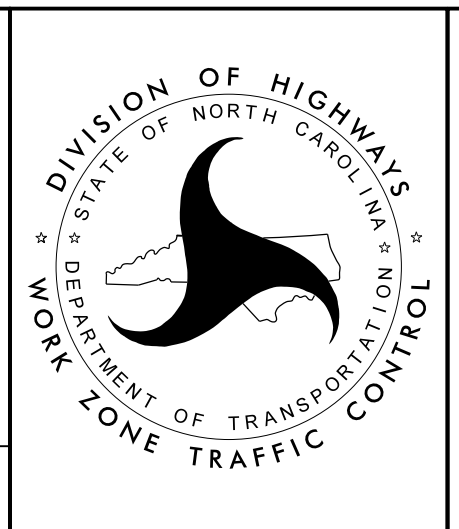
APPROVED: *Joseph A. Freeman*

DATE: 5/4/2017

SEAL

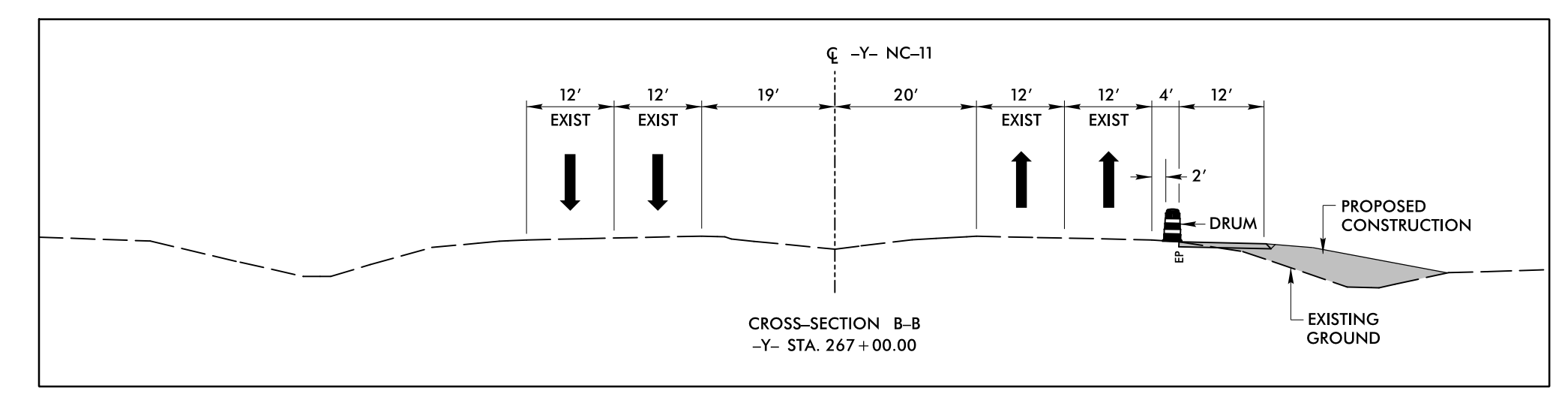
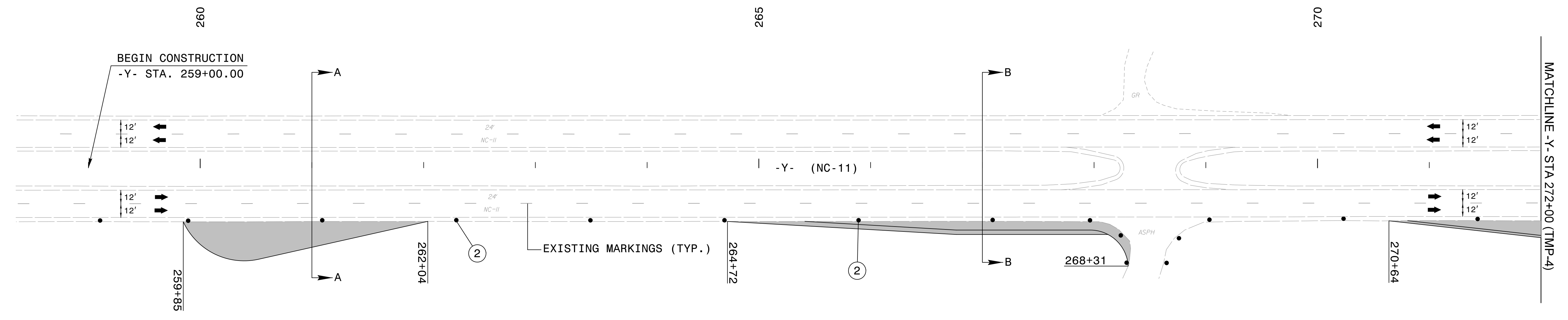
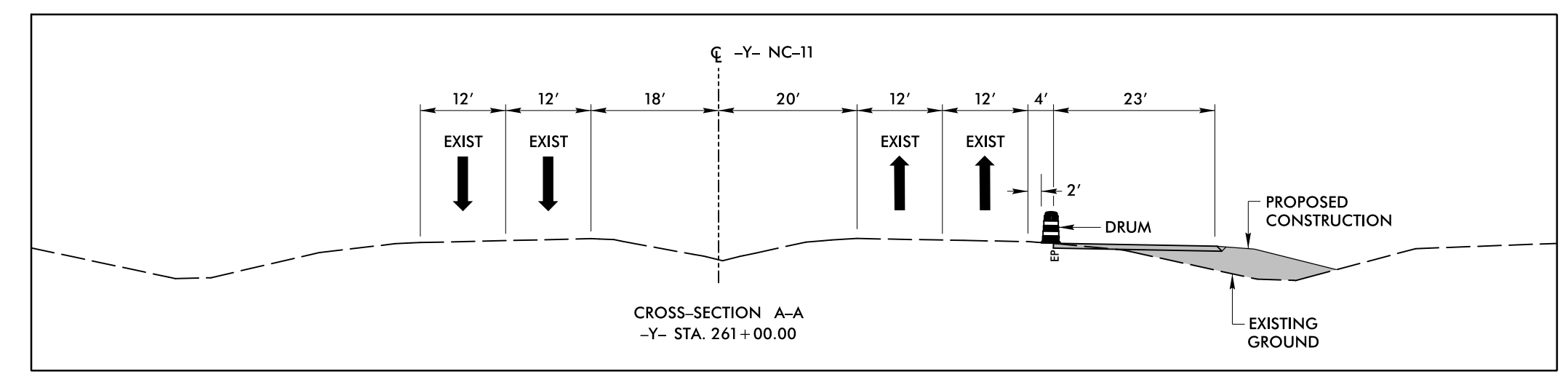
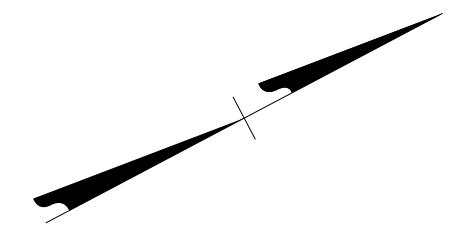
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 SEAL 032599
 JOSEPH A. FREEMAN

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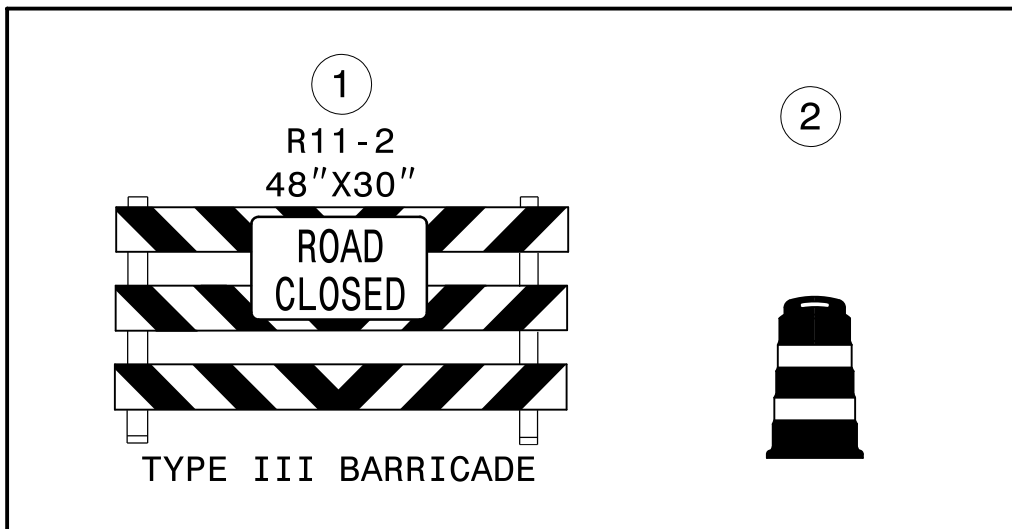


TEMPORARY TRAFFIC CONTROL PHASE I DETAILS

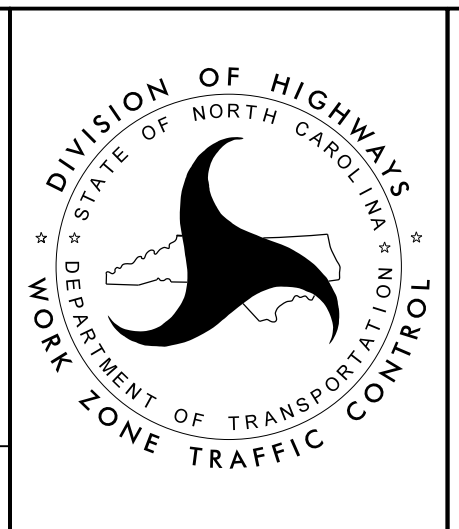
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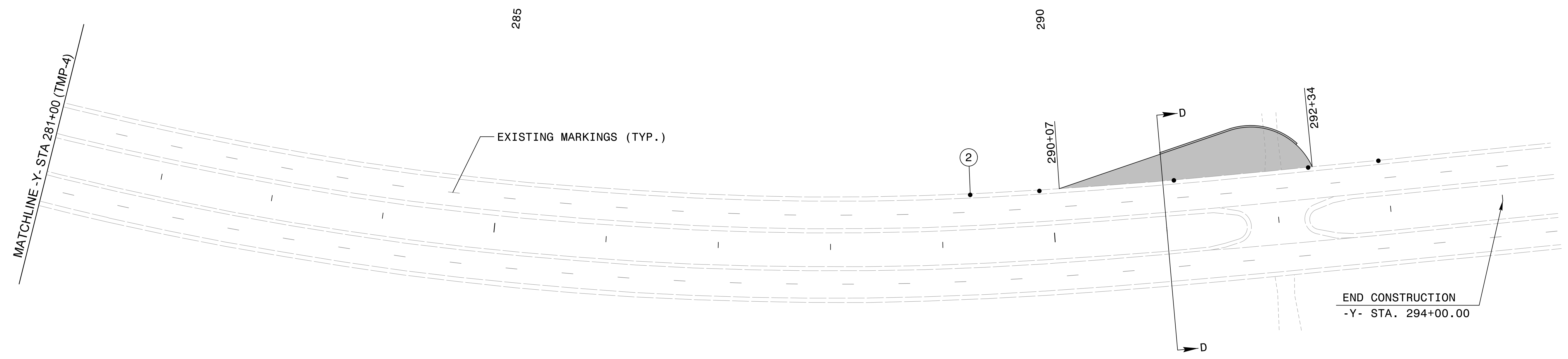
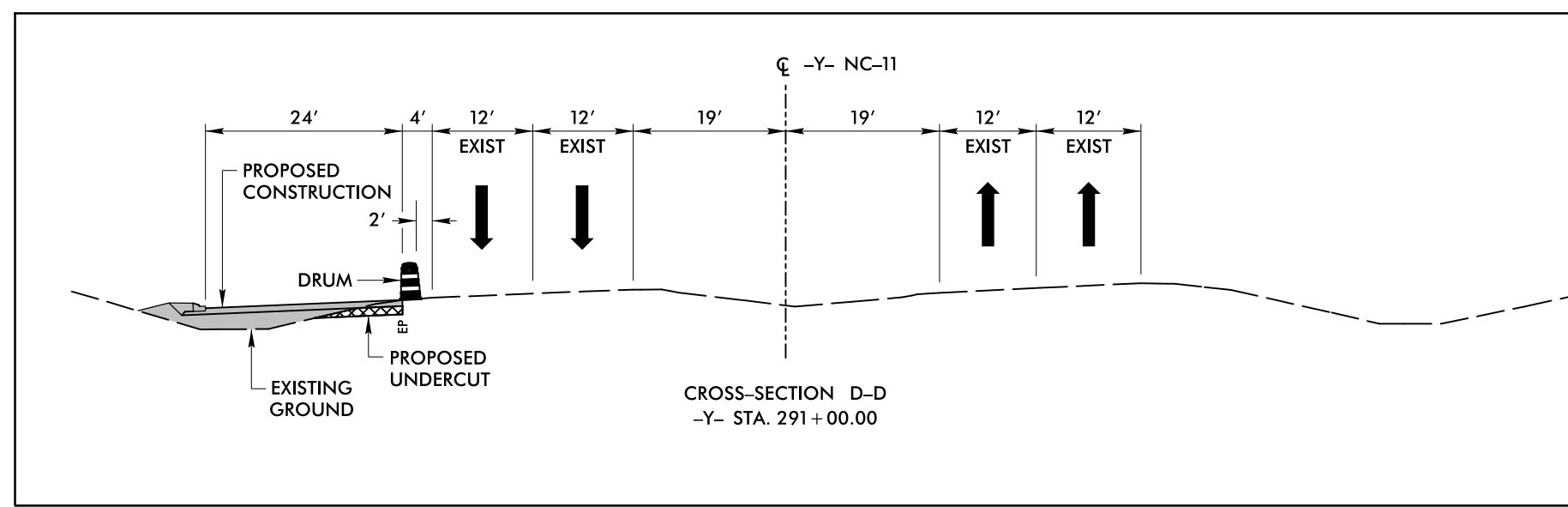
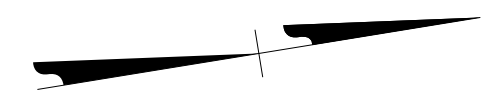


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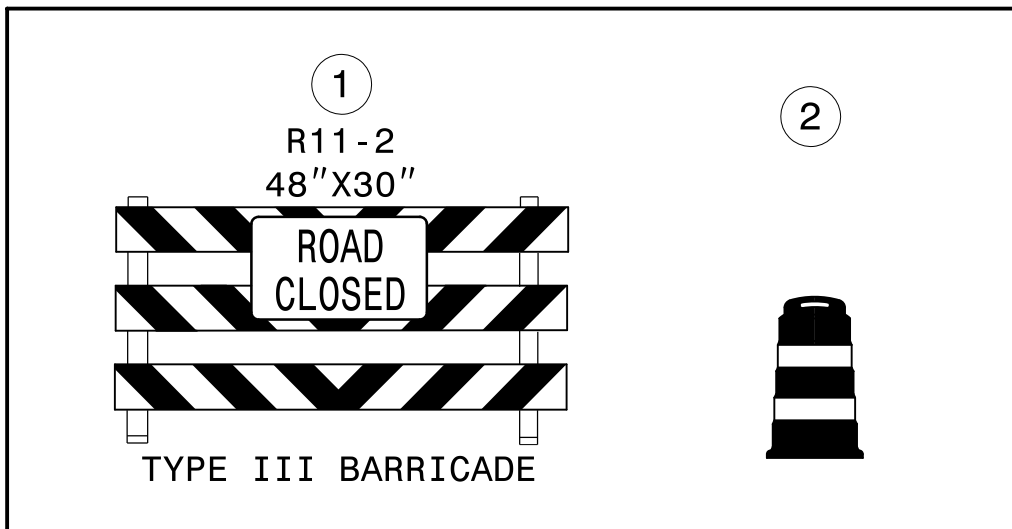


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 PHASE I DETAILS

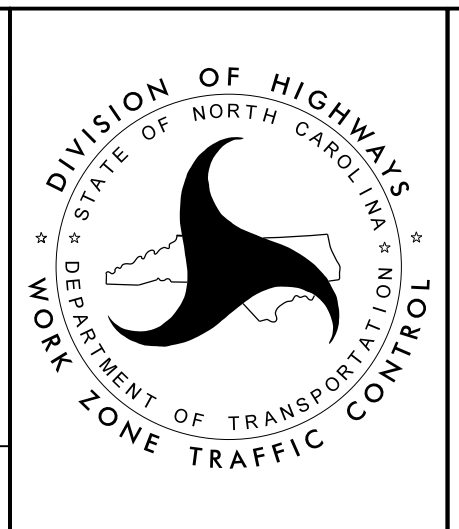
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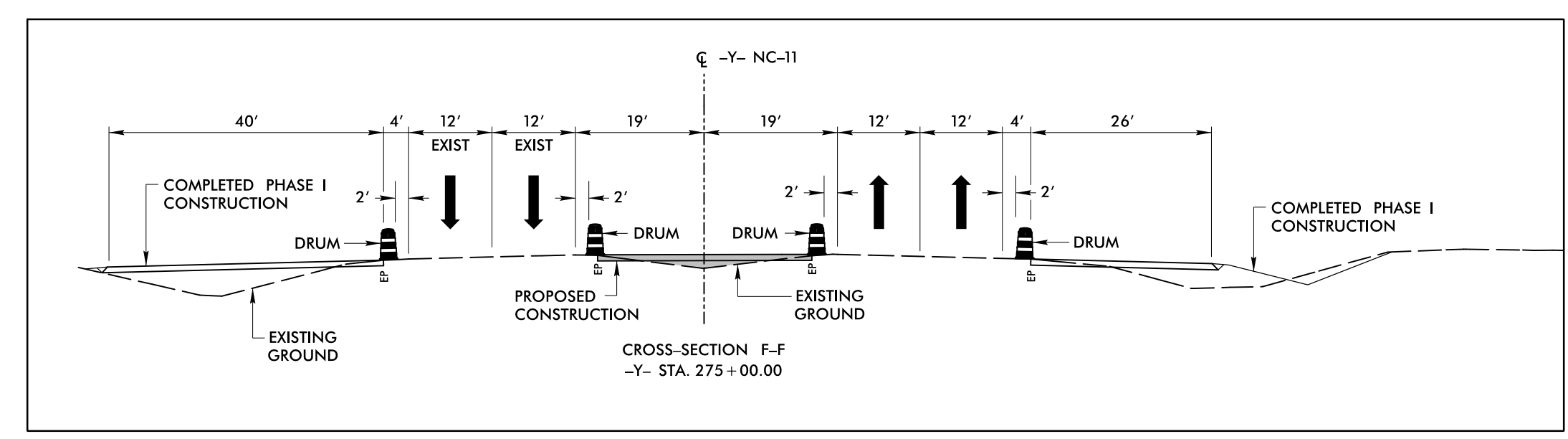
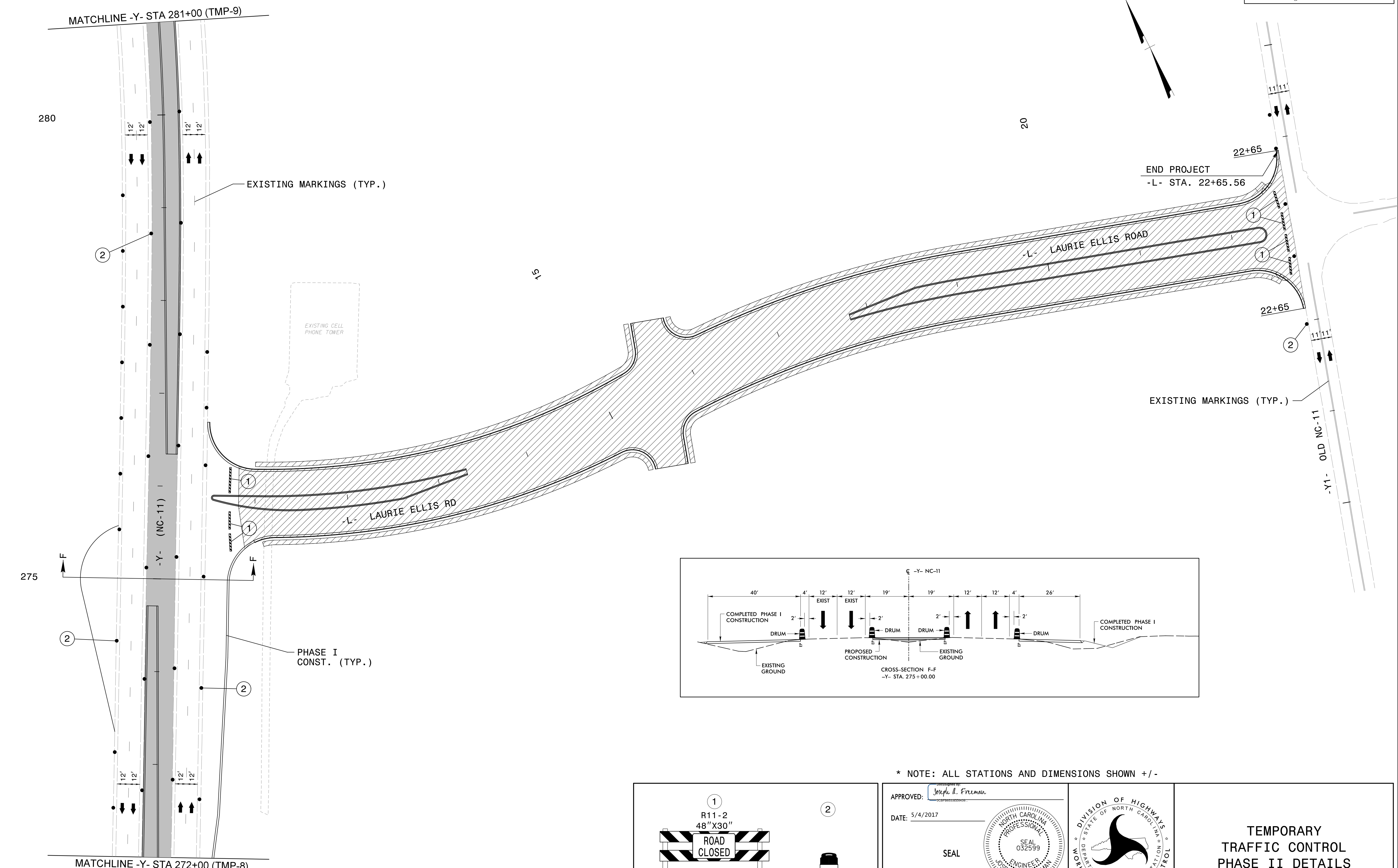


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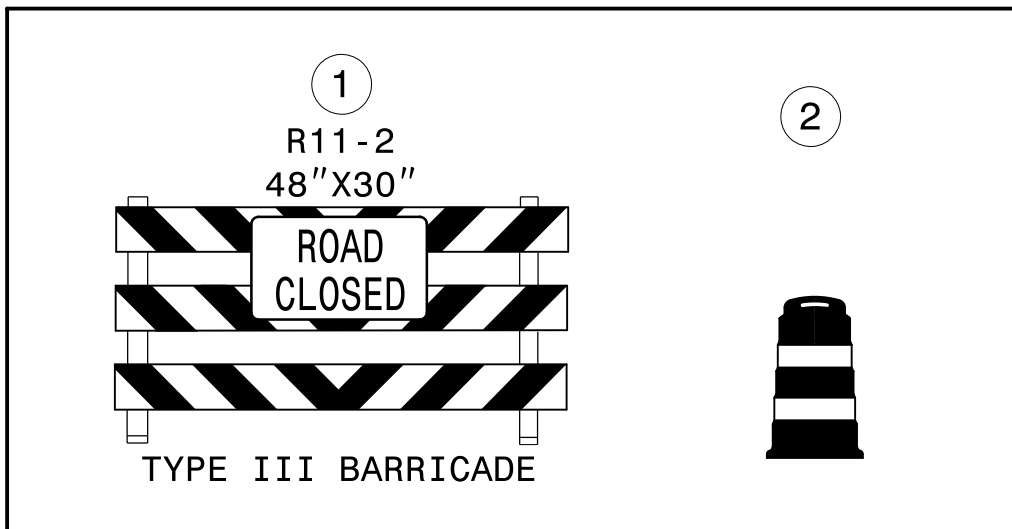


TEMPORARY TRAFFIC CONTROL PHASE I DETAILS

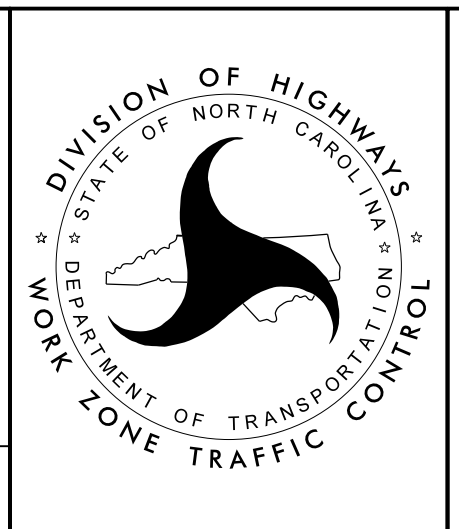
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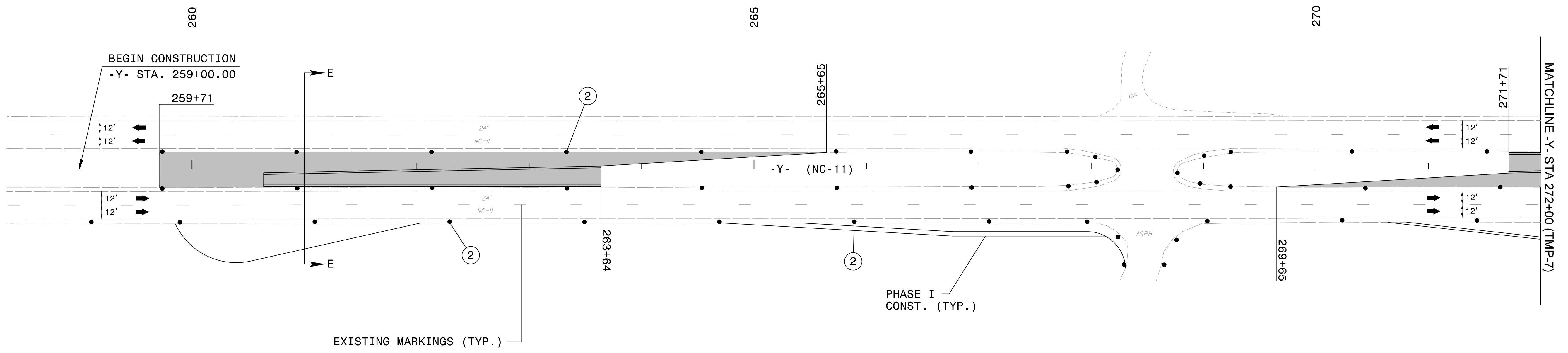
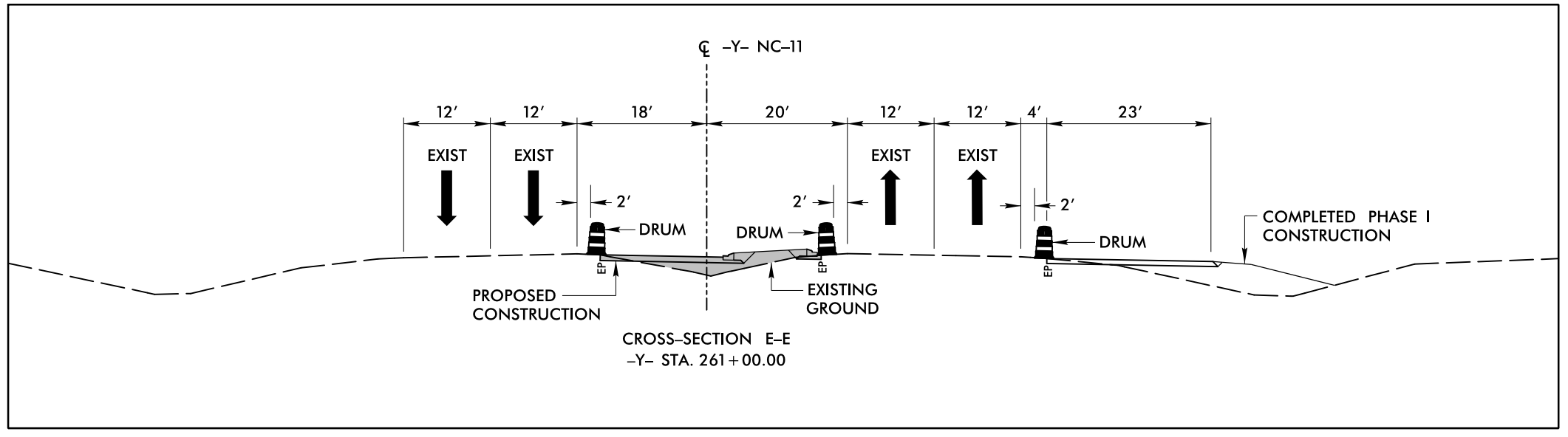
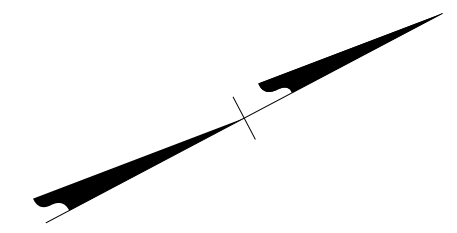


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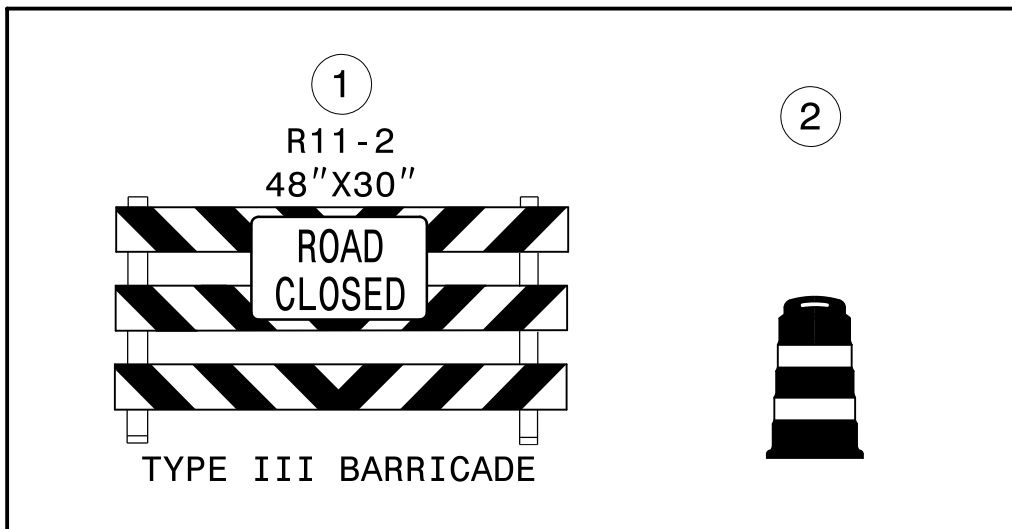


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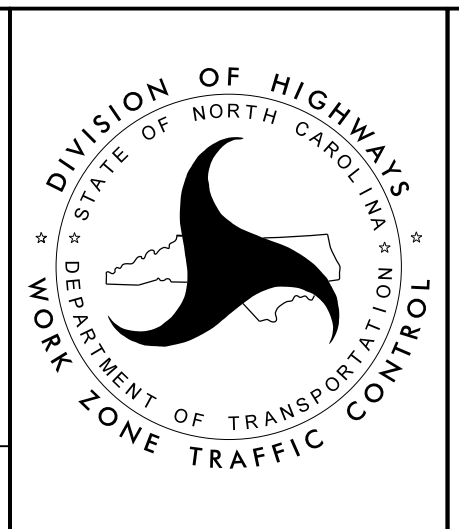
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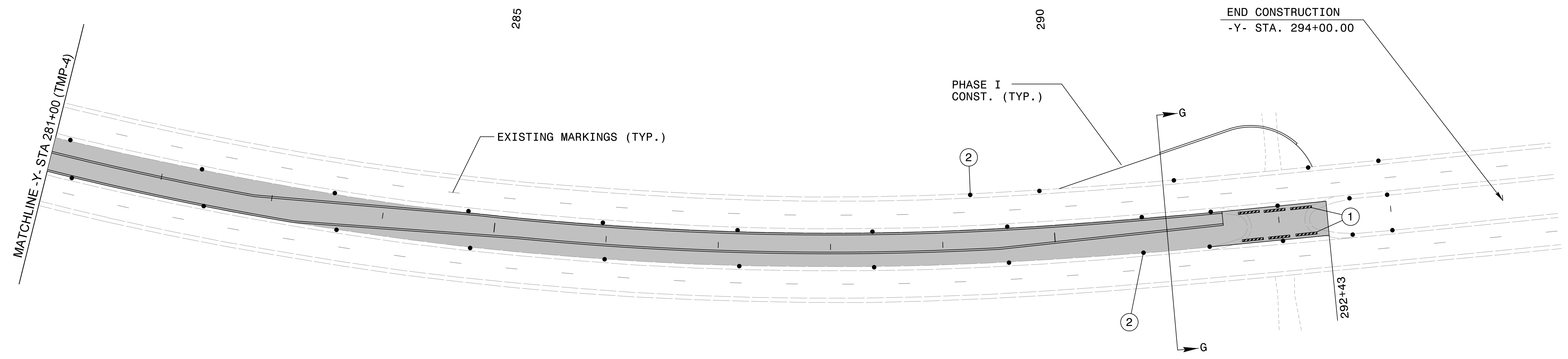
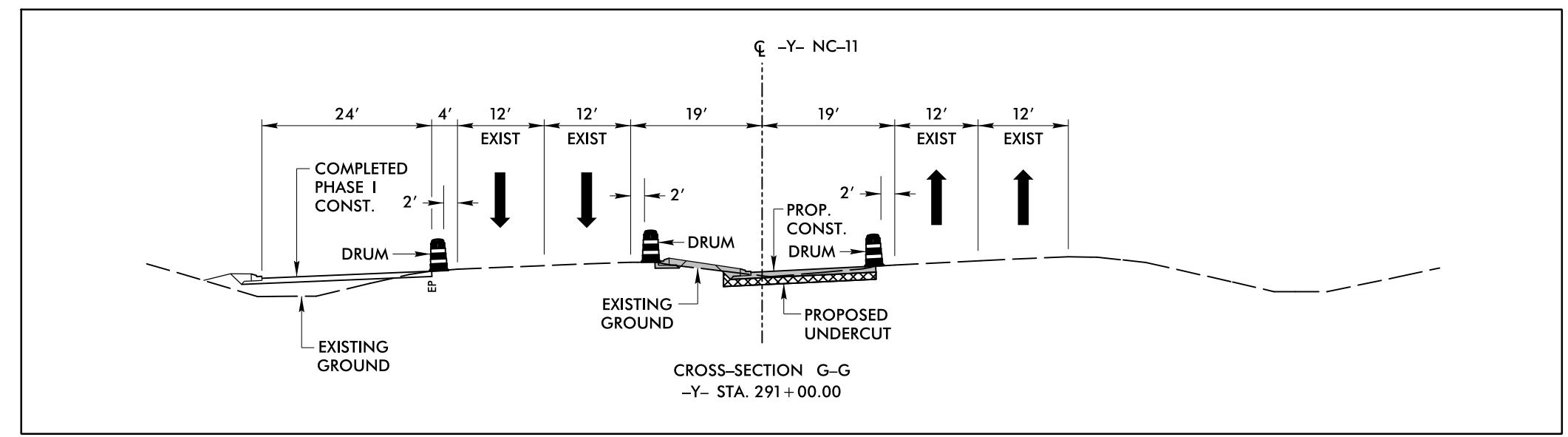
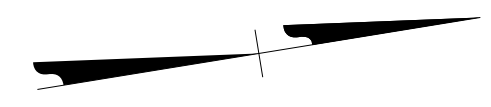


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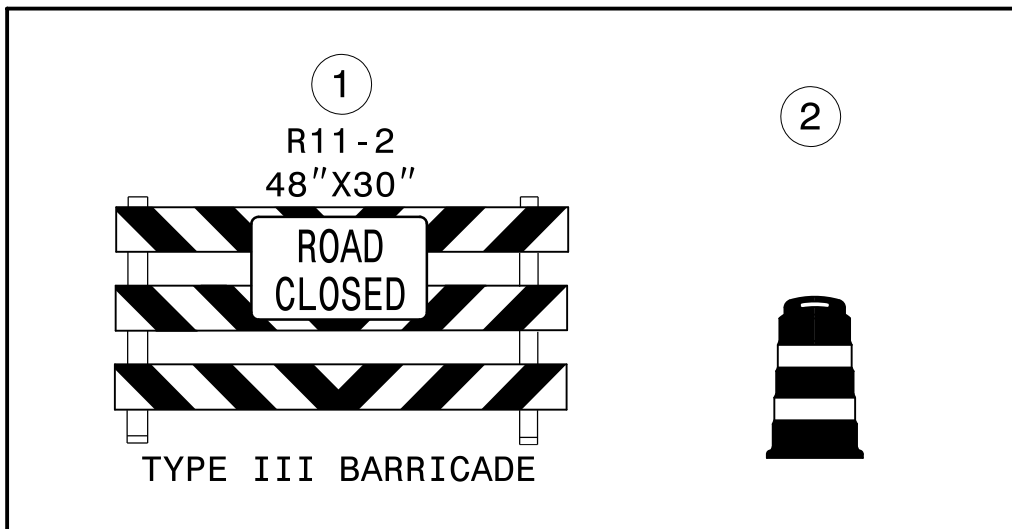


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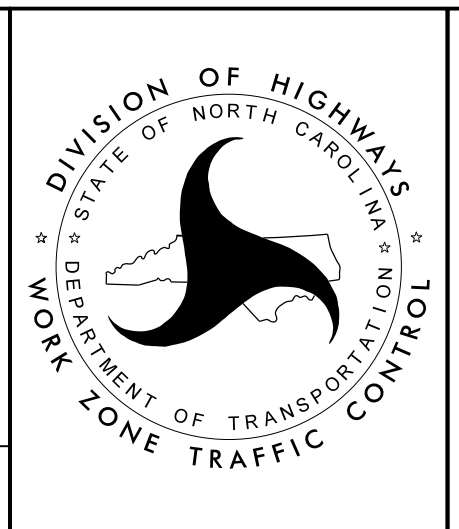
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 DATE: 5/4/2017

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 032599




TEMPORARY
 TRAFFIC CONTROL
 PHASE II DETAILS

8/17/99

PROJECT: U-5921

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING PLAN
PITT COUNTY**

TIP NO.	SHEET NO.
U-5921	PMP-1
Signed by: <i>Gerald H. McCauley</i>	
APPROVED:	5/4/2017
DATE:	
SEAL	
	
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INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
PMP-1	PAVEMENT MARKING & SIGNING PLAN COVER SHEET
PMP-1A	PAVEMENT MARKING SCHEDULE
PMP-1B	SIGNING SCHEDULE
PMP-2 THRU PMP-4	PAVEMENT MARKING & SIGNING DETAIL

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:
- | <u>ROAD NAME</u> | <u>MARKING</u> | <u>MARKER</u> |
|---------------------------------|------------------|---------------------|
| LAURIE ELLIS ROAD (SR 1713) [L] | 4" THERMOPLASTIC | NONE |
| NC 11 [Y] | 6" THERMOPLASTIC | SNOWPLOWABLE RAISED |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) USE PRISMATIC SIGN SHEETING.
- F) MOUNT SHOULDER SIGNS ON 4" X 4" WOOD POST.
- G) MOUNT CONCRETE ISLAND SIGNS USING "SAFE BREAK" SYSTEM WITH SQUARE METAL POST.


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:

<u>STD. NO.</u>	<u>TITLE</u>
901.50	ARROWS AND SHIELDS
903.10	GROUND MOUNTED SIGN SUPPORTS
903.20	WOOD SIGN POST
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL POSTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANES DROPS
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

CONTRACT:

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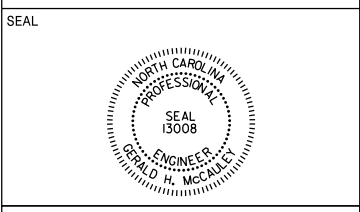
PLAN PREPARED BY: <i>STV Engineers, Inc.</i>			STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991
<u>GERALD H. McCAULEY, PE</u>	TRAFFIC ENGINEER		
<u>CLARK E. GROVES</u>	TRANSPORTATION DESIGNER		

8/17/99



TIP NO.	SHEET NO.
U-5921	PMP-1A

APPROVED: *Gerald H. McLauley*
 DATE: 5/4/2017



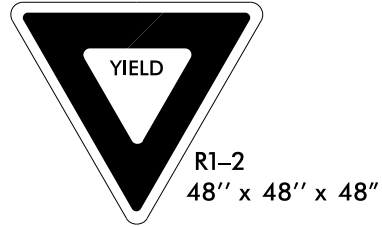
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAVEMENT MARKINGS
		<u>THERMOPLASTIC (4", 90 MILS)</u>
TA	WHITE EDGE LINE	
TB	YELLOW EDGE LINE	<u>SNOWPLOWABLE MARKER</u>
		<u>THERMOPLASTIC (4", 120 MILS)</u>
T8	2 FT. - 6 FT. / SP WHITE MINISKIP	MF
TC	10 FT. WHITE SKIP	CRYSTAL RED
TD	3 FT. - 9FT. / SP WHITE MINISKIP	
TE	WHITE SOLID LANE LINE	
TI	YELLOW DOUBLE CENTER	
		<u>THERMOPLASTIC (6", 90 MILS)</u>
T6	WHITE EDGELINE	
T7	YELLOW EDGELINE	
		<u>THERMOPLASTIC (6", 120 MILS)</u>
TJ	10' WHITE SKIP	
TK	3 FT. - 9 FT. / SP WHITE MINISKIP	
TL	WHITE SOLID LANE LINE	
T11	2 FT. - 6 FT. / SP WHITE MINISKIP	
T12	2 FT. - 6 FT. / SP YELLOW MINISKIP	
		<u>THERMOPLASTIC (8", 120 MILS)</u>
TQ	WHITE CROSSWALK	
		<u>THERMOPLASTIC (12", 90 MILS)</u>
TS	WHITE GORELINE	
TU	WHITE DIAGONAL	
		<u>THERMOPLASTIC (24", 120 MILS)</u>
T2	WHITE STOPBAR	
		<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)</u>
UA	LEFT TURN ARROW	
UB	RIGHT TURN ARROW	
UD	COMBO. LEFT/STRAIGHT ARROW	
UN	24' YIELD LINE TRIANGLE	
UT	U-TURN ARROW	
		<u>THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)</u>
UI	ALPHANUMERIC CHAR. (ONLY)	

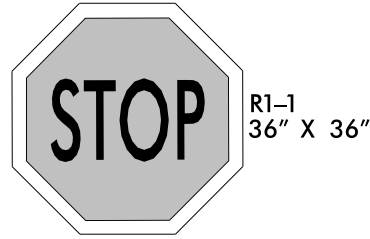
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401 QUANTITY REQ'D 1



4" X 4" WOOD POST

402 QUANTITY REQ'D 6



4" X 4" WOOD POST

403 QUANTITY REQ'D 4



4" X 4" WOOD POST

404 QUANTITY REQ'D 2

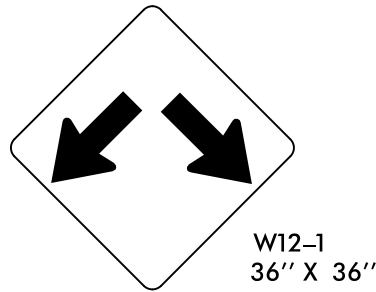


4" X 4" WOOD POST

TIP NO.	SHEET NO.
U-5921	PMP-1B
APPROVED: <i>Gerald H. McLaury</i>	
DATE: 5/4/2017	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

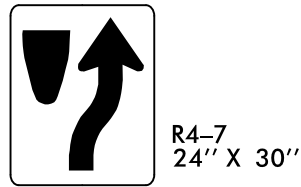
STV 100 Years STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

405 QUANTITY REQ'D 4



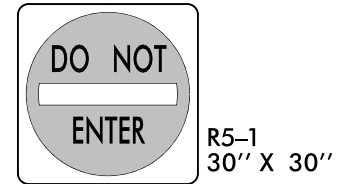
SQUARE METAL SAFE BREAK POST

406 QUANTITY REQ'D 3



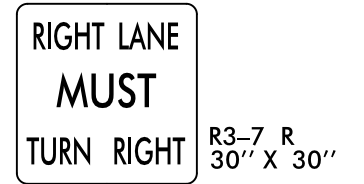
SQUARE METAL SAFE BREAK POST

407 QUANTITY REQ'D 6



4" X 4" WOOD POST

408 QUANTITY REQ'D 1



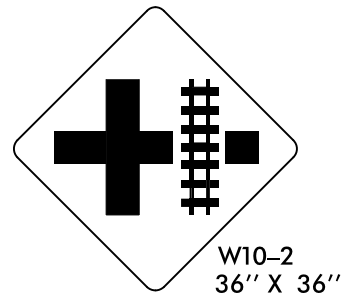
4" X 4" WOOD POST

409 QUANTITY REQ'D 1



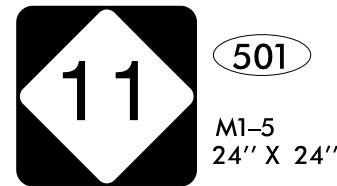
4" X 4" WOOD POST

410 QUANTITY REQ'D 2



4" X 4" WOOD POST

501 QUANTITY REQ'D 10



ONE "U" POST PER SIGN

502 QUANTITY REQ'D 4



MOUNT ABOVE 501 M1-5
SEE PLANS FOR LOCATION

503 QUANTITY REQ'D 6



MOUNT ABOVE 501 M1-5
SEE PLANS FOR LOCATION

504 QUANTITY REQ'D 2



MOUNT BELOW 501 M1-5
SEE PLANS FOR LOCATION

505 QUANTITY REQ'D 1



MOUNT BELOW 501 M1-5
SEE PLANS FOR LOCATION

506 QUANTITY REQ'D 4



MOUNT BELOW 501 M1-5
SEE PLANS FOR LOCATION

TYPE "E" & "F" SIGNS

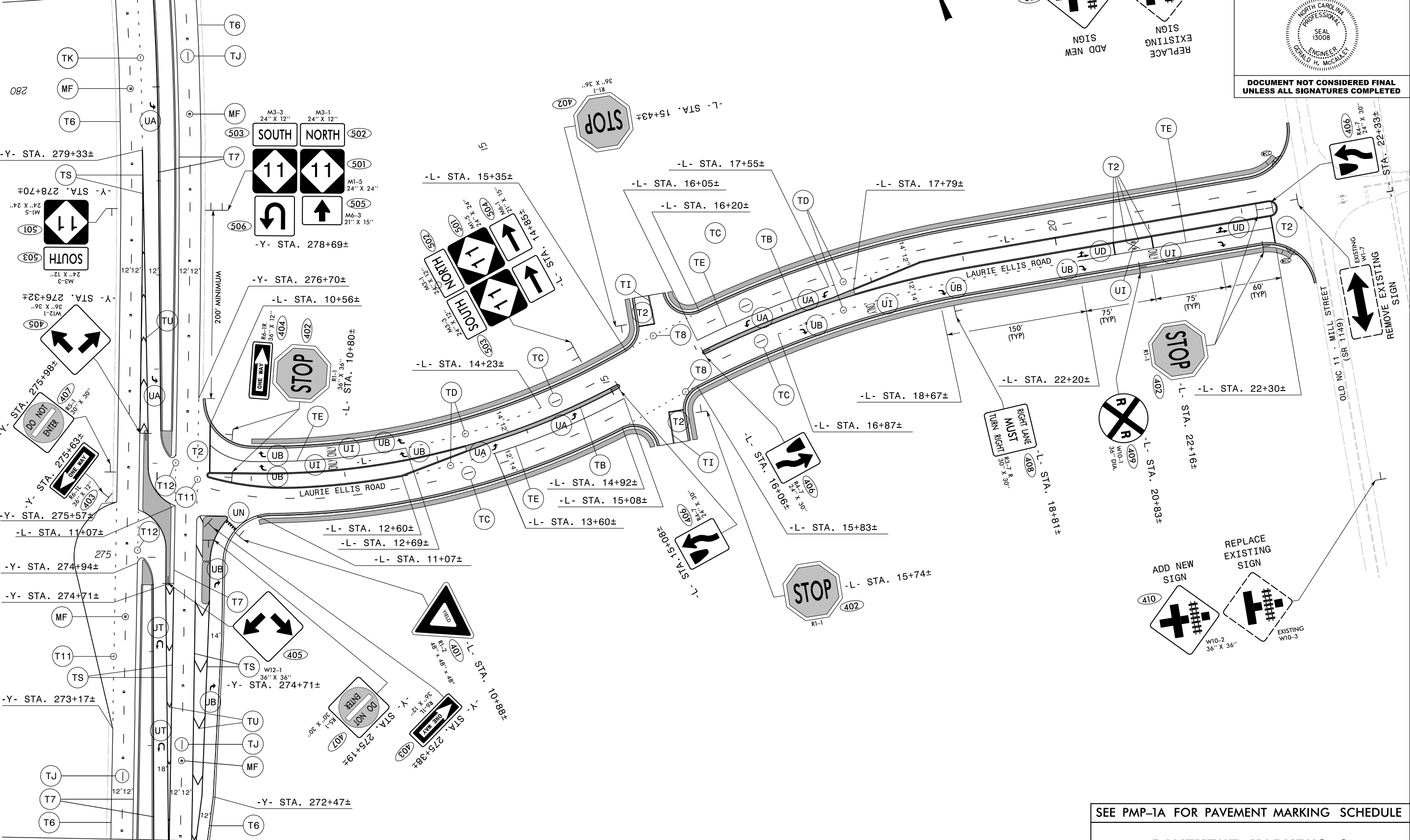
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 Charlotte, NC 28202
 NC License Number F-0991

TIP NO.	SHEET NO.
U-5921	PMP-2
APPROVED:	Designed by: <i>Gerald H. McAlister</i>
DATE:	5/4/2017
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -Y- STA 281+00 (SHEET PMP-4)




SEE PMP-1A FOR PAVEMENT MARKING SCHEDULE

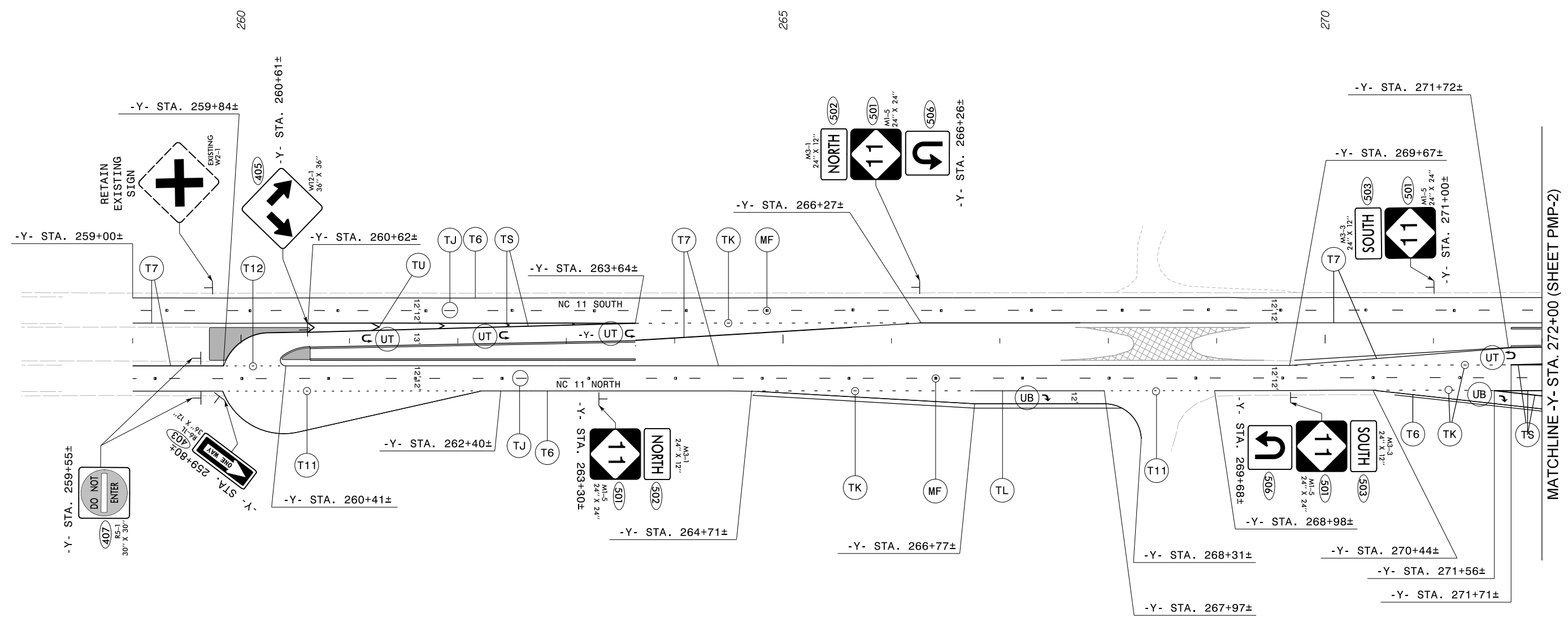
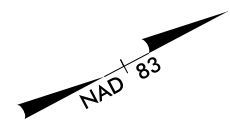
PAVEMENT MARKING & SIGNING DETAIL

5/4/2017 10:00:00 AM \\pmp\shh\U5921.pmp.psh.pmp-2.dgn

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 STV Engineers, Inc.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

TIP NO.	SHEET NO.
U-5921	PMP-3
DESIGNED BY:	Gerald H. McCalley
APPROVED:	<i>Gerald H. McCalley</i>
DATE:	5/4/2017
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -Y- STA. 272+00 (SHEET PMP-2)

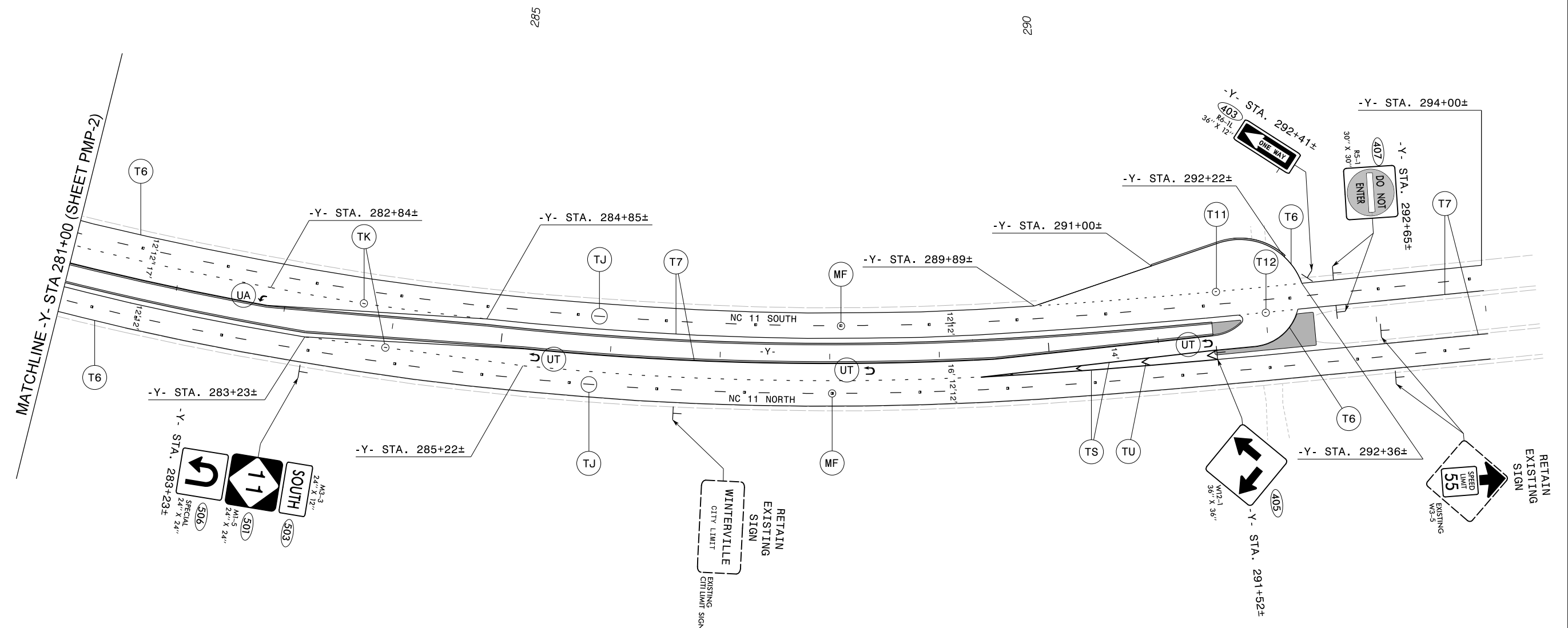
SEE PMP-1A FOR PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING & SIGNING DETAIL

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 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-0991

TIP NO. U-5921	SHEET NO. PMP-4
APPROVED: <i>Gerald H. McLauley</i>	
DATE: 5/4/2017	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



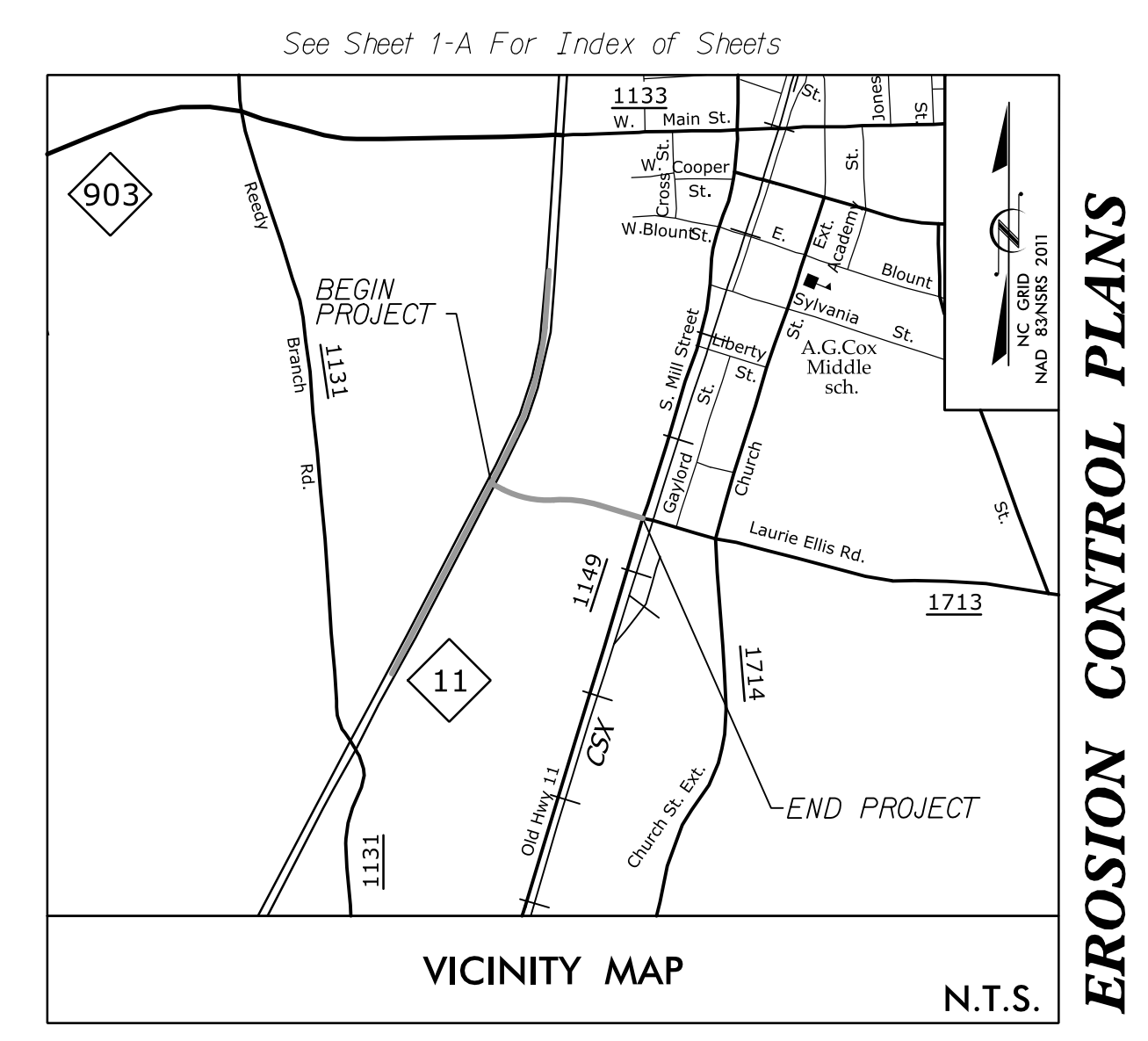
SEE PMP-1A FOR PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING & SIGNING DETAIL

8/17/99

5/4/2017
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TIP PROJECT: U-5921



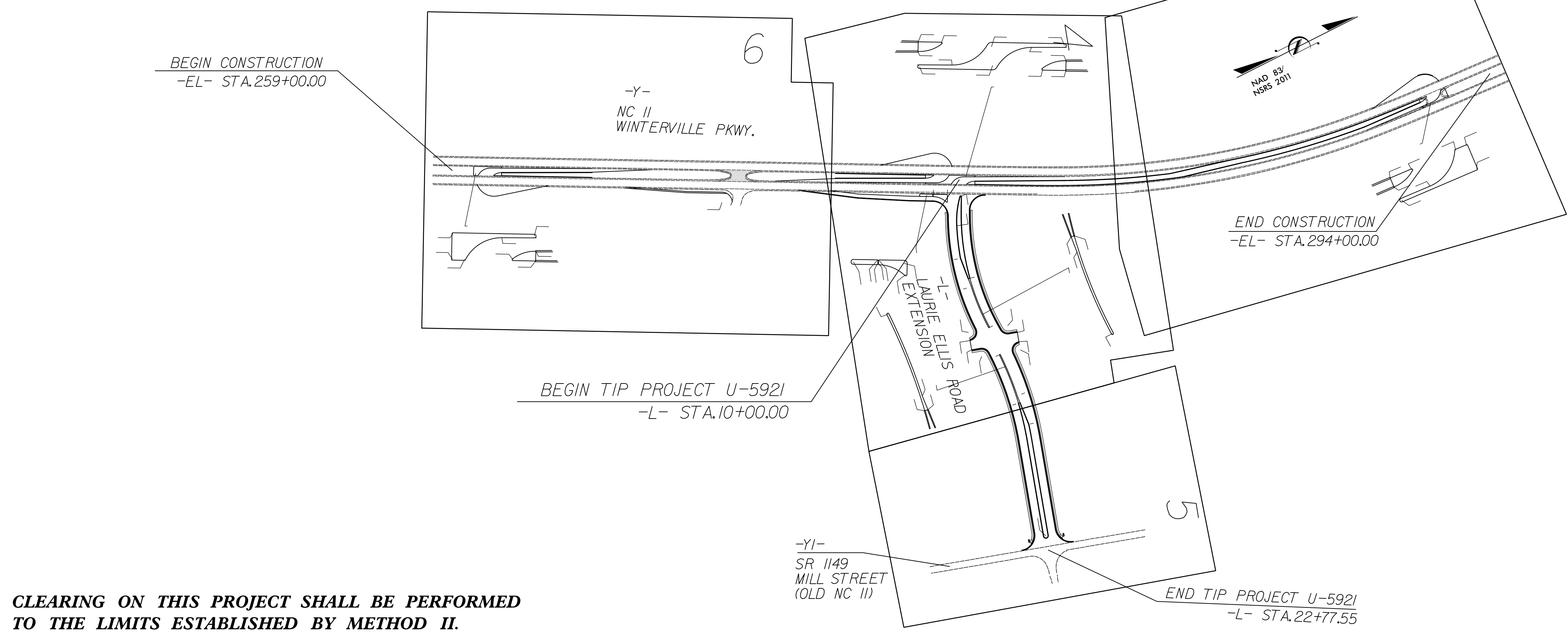
EROSION CONTROL PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

PITT COUNTY

LOCATION: LAURIE ELLIS ROAD FROM NC 11 TO MILL STREET
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND CURB AND GUTTER



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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5921	EC-1	16
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

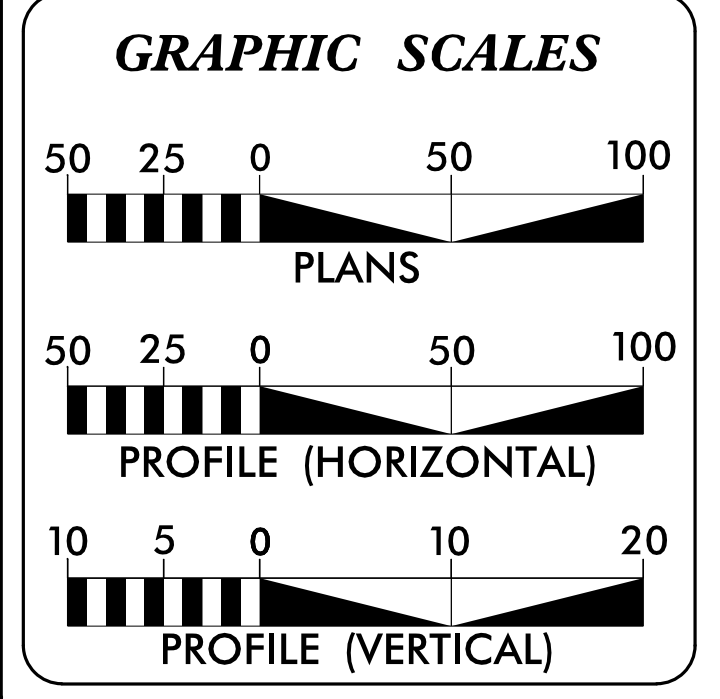
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
1633.02	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▩
1633.02	Wattle / Coir Fiber Wattle	—
1633.02	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	—
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
1632.01	Rock Inlet Sediment Trap: Type A	A
1632.02	Type B	B
1632.03	Type C	C
1630.04	Skimmer Basin	▭
1630.04	Tiered Skimmer Basin	▭
1630.04	Infiltration Basin	▭

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

STV 100 Years STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared In the Office of:
STV ENGINEERS, INC.
900 WEST TRADE STREET, SUITE 715
CHARLOTTE, NC 28202

2012 STANDARD SPECIFICATIONS

Designed by:
JORDAN BENDL 3928
NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:
DIVISION DESIGN CONSTRUCT
1704 North Greene Street
Greenville, NC 27835

2012 STANDARD SPECIFICATIONS

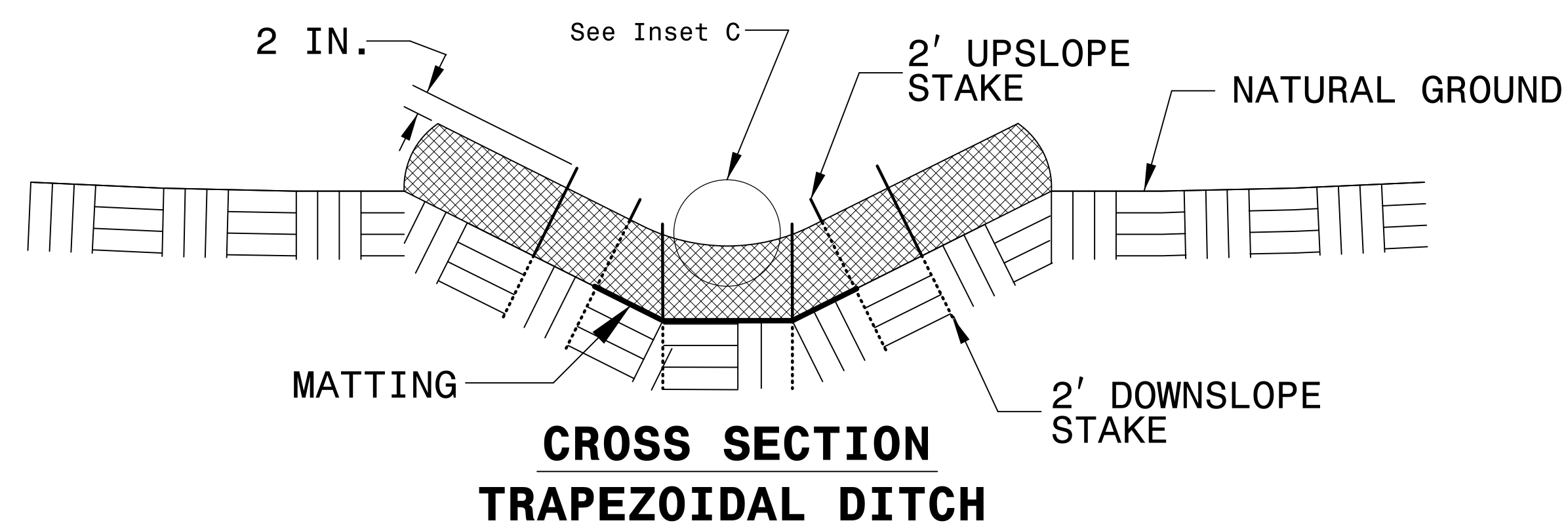
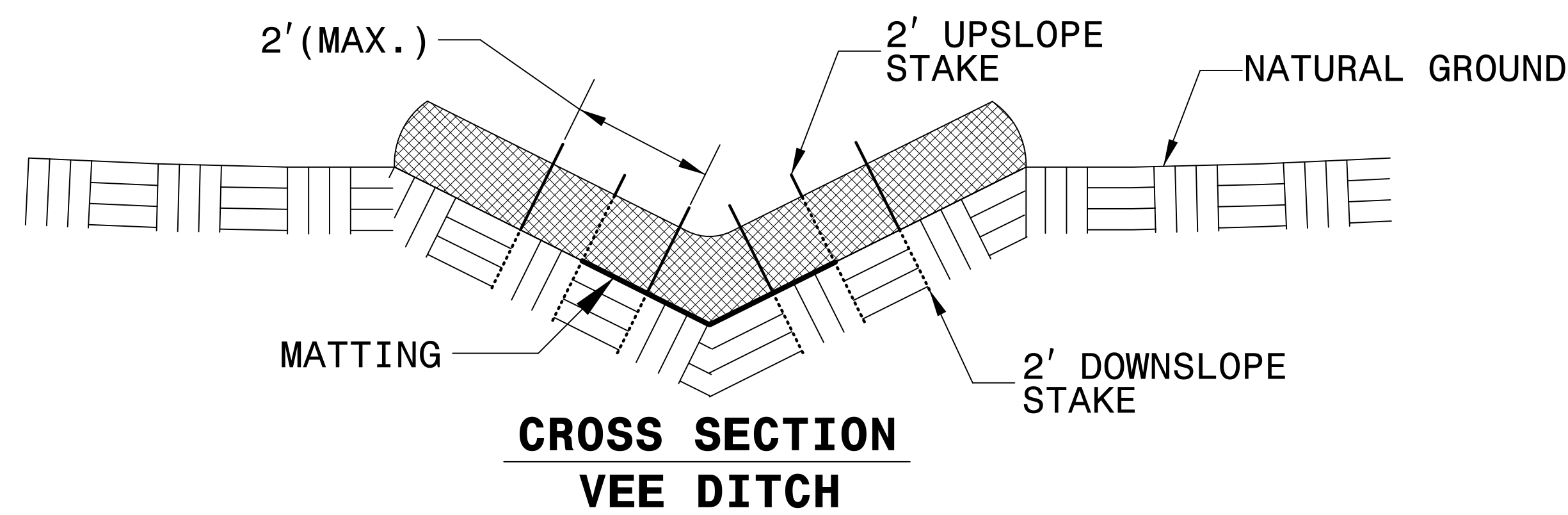
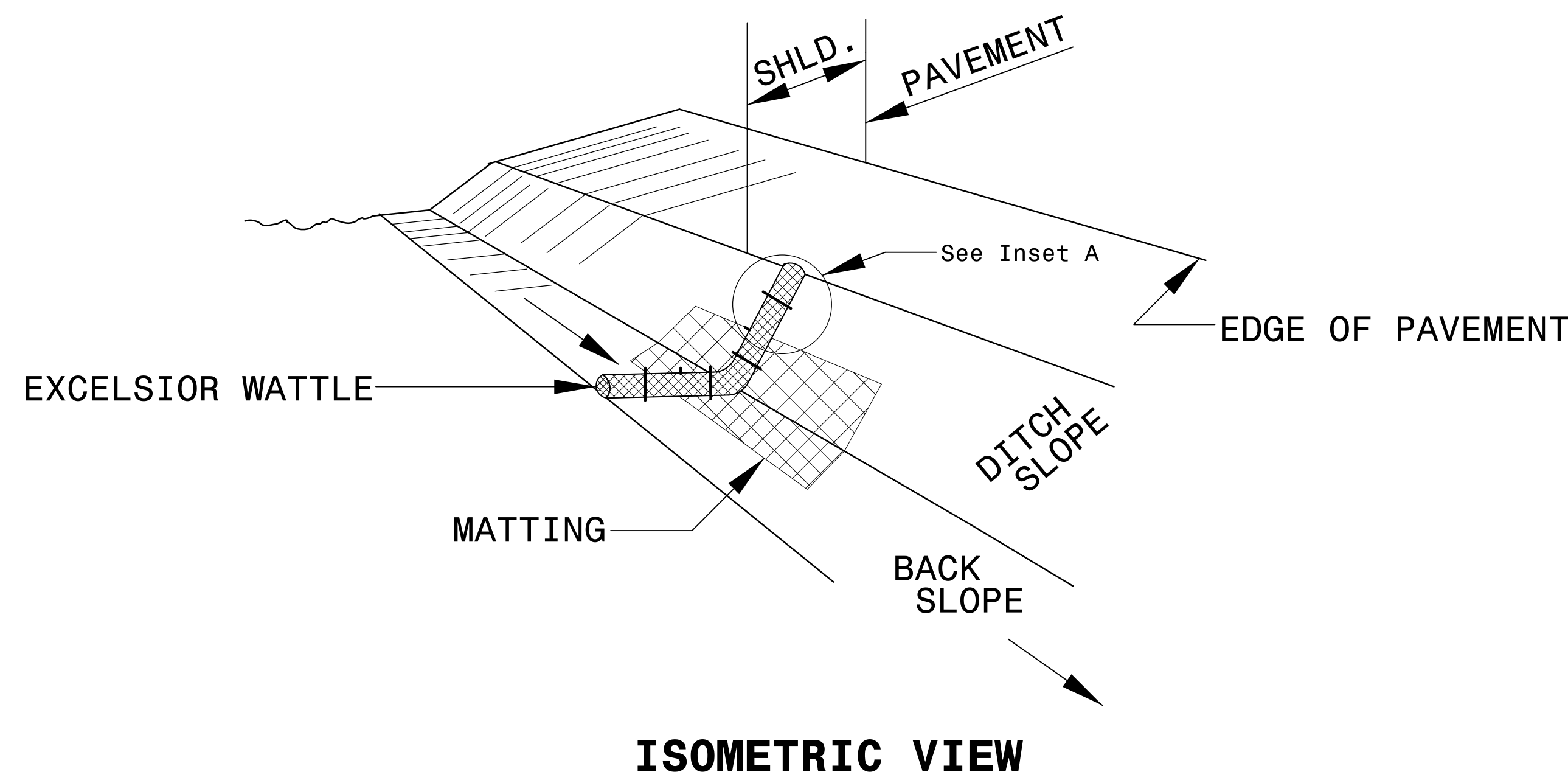
Reviewed by:
LANG JONES

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

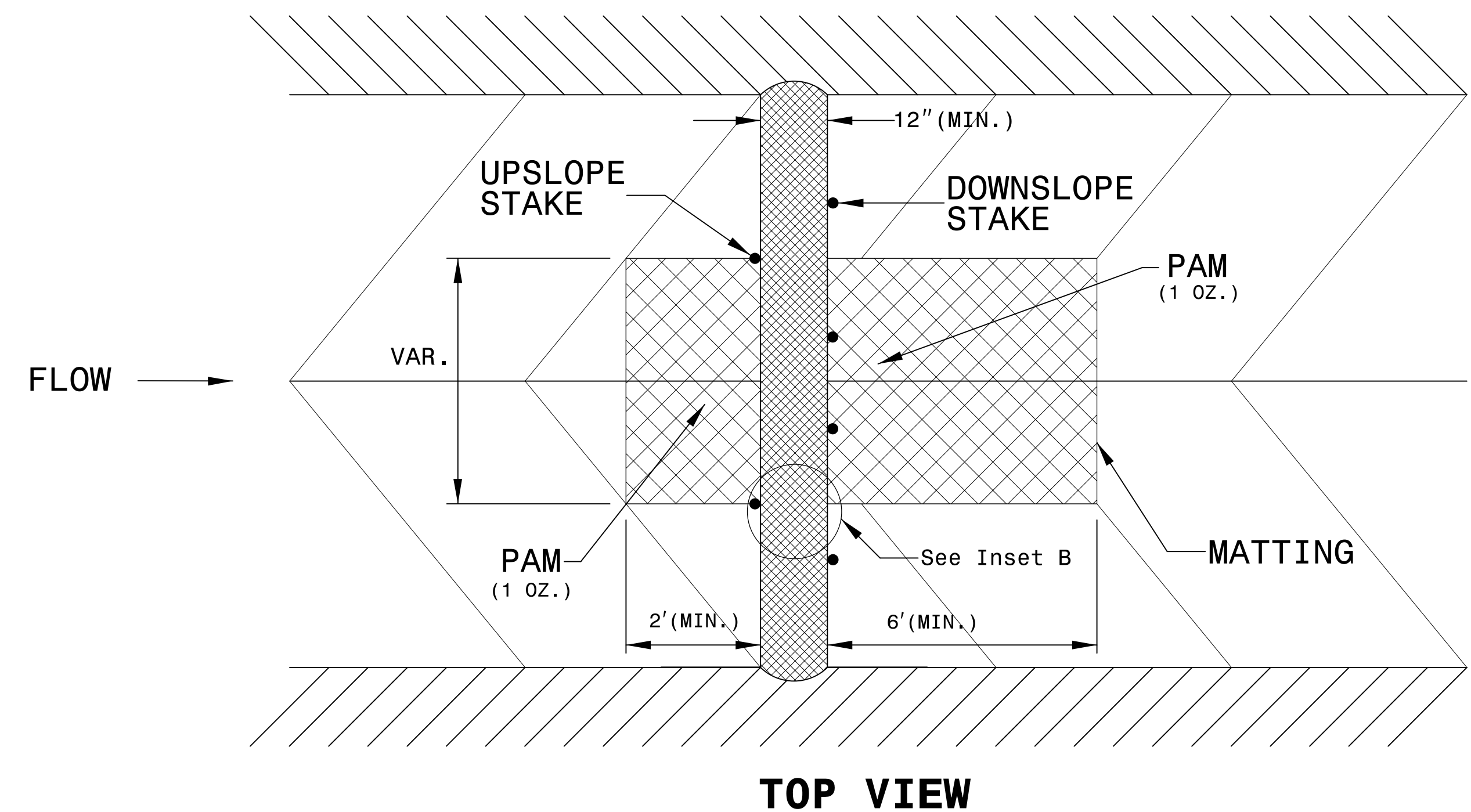
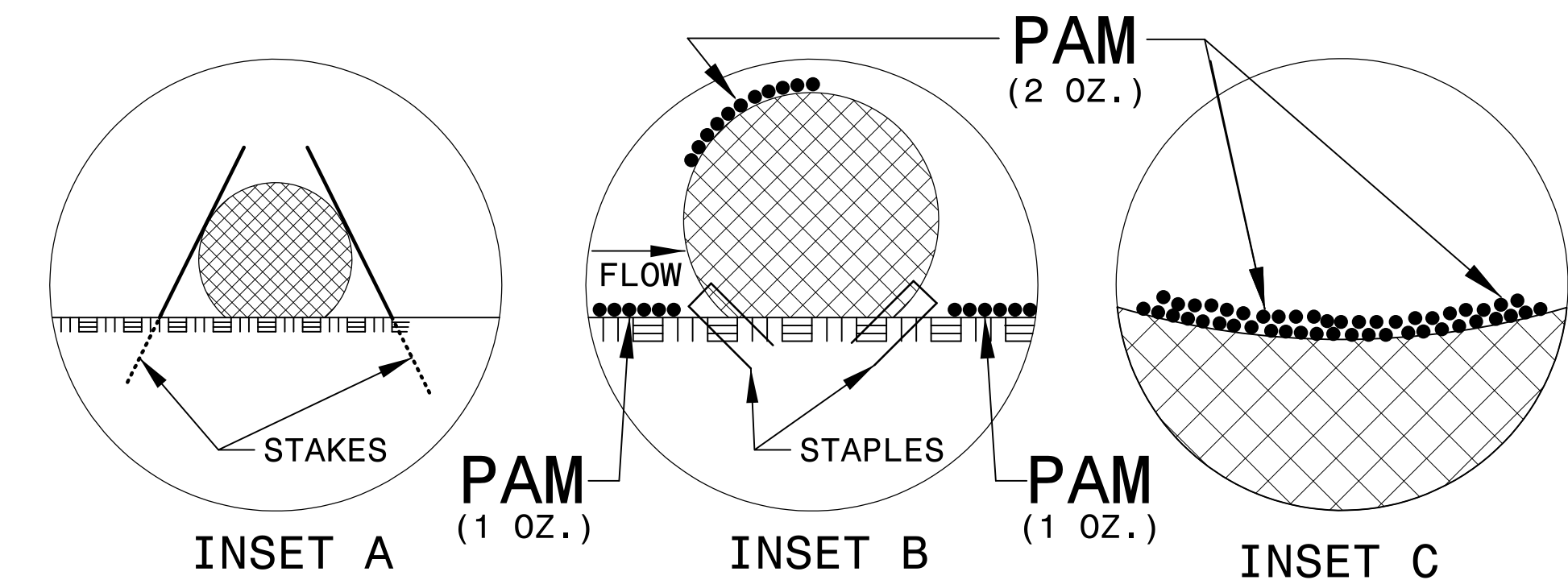
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

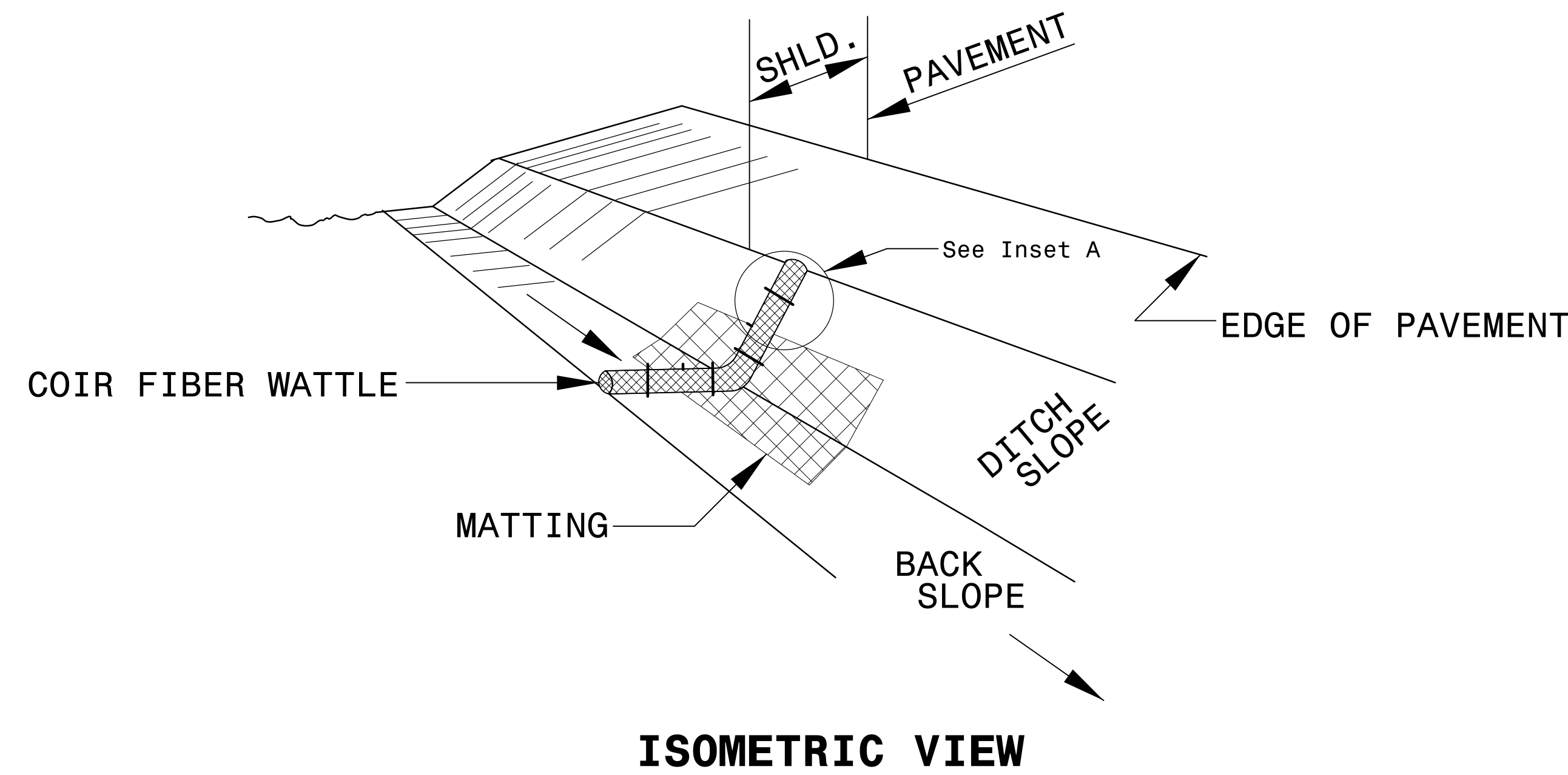
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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.



COIR FIBER WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

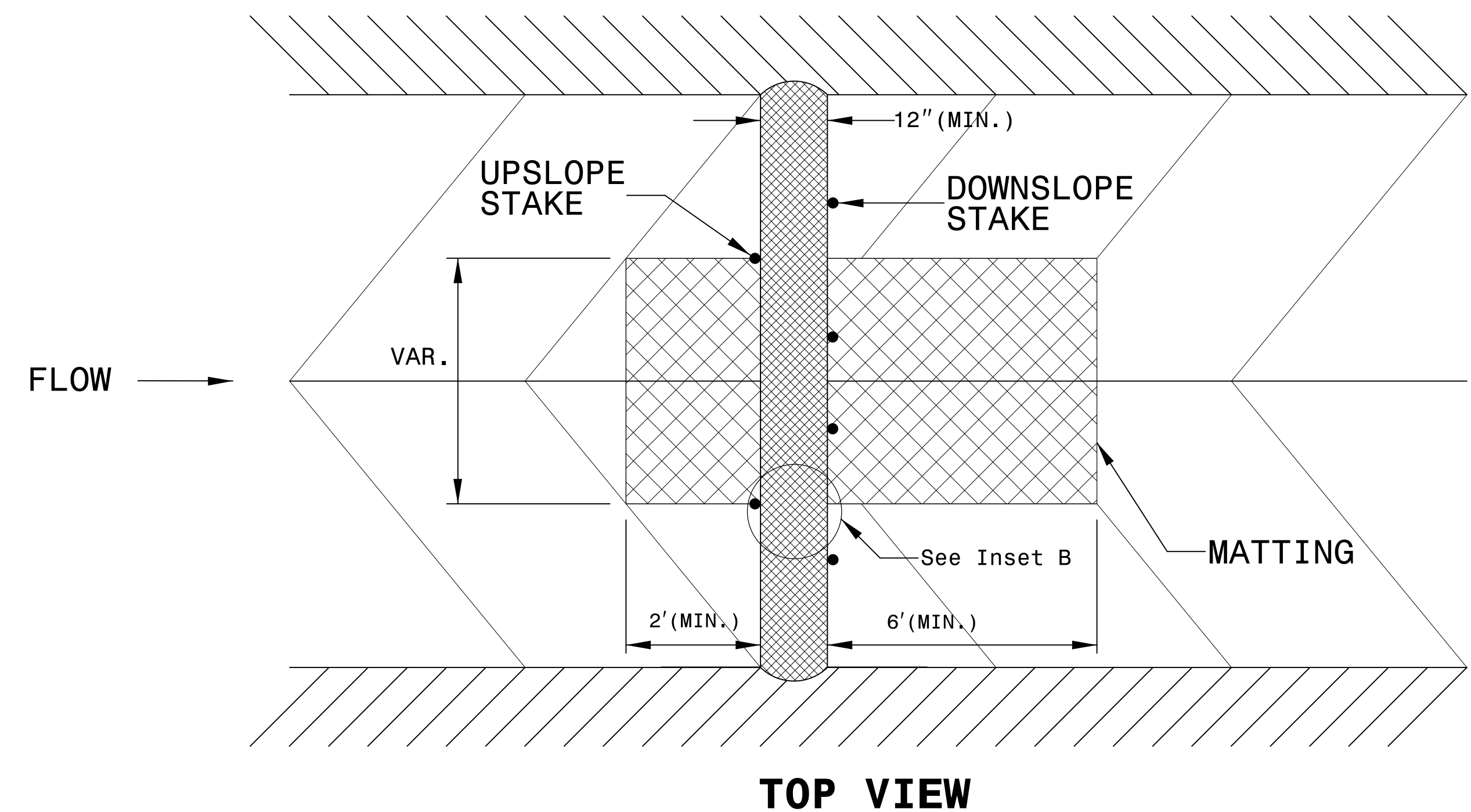
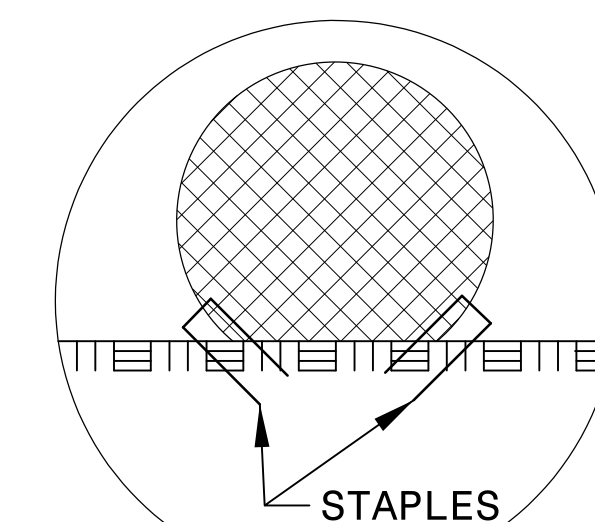
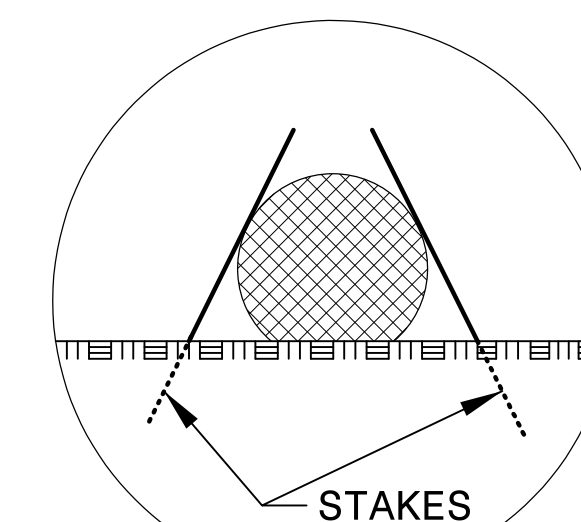
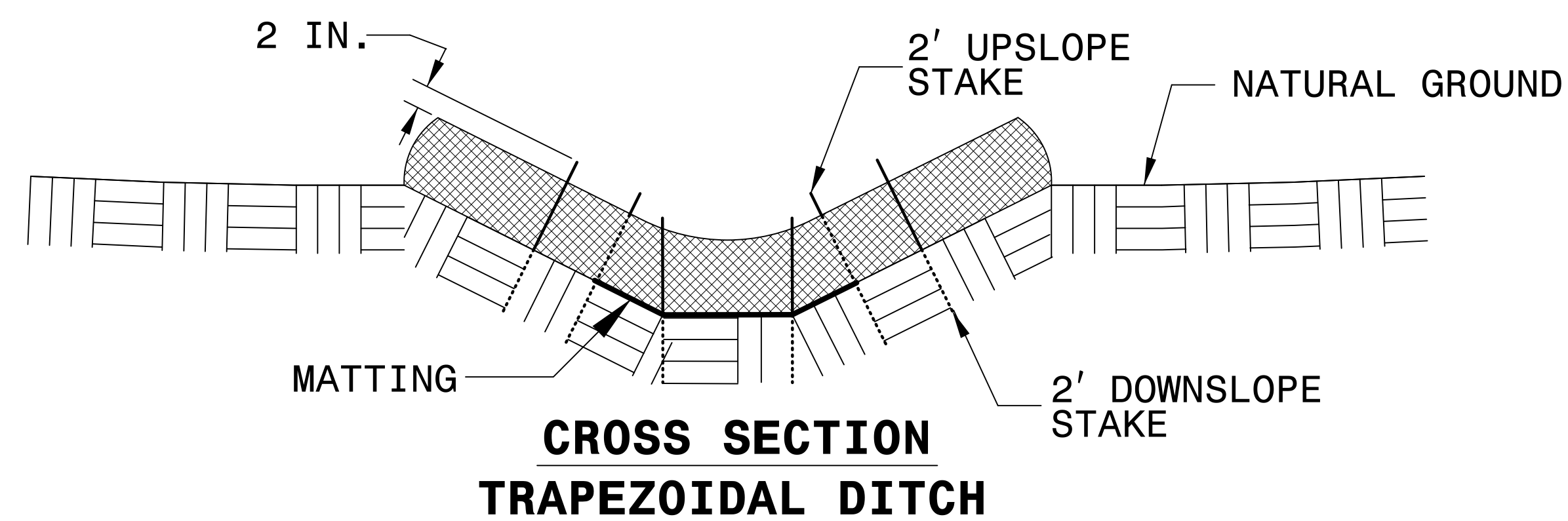
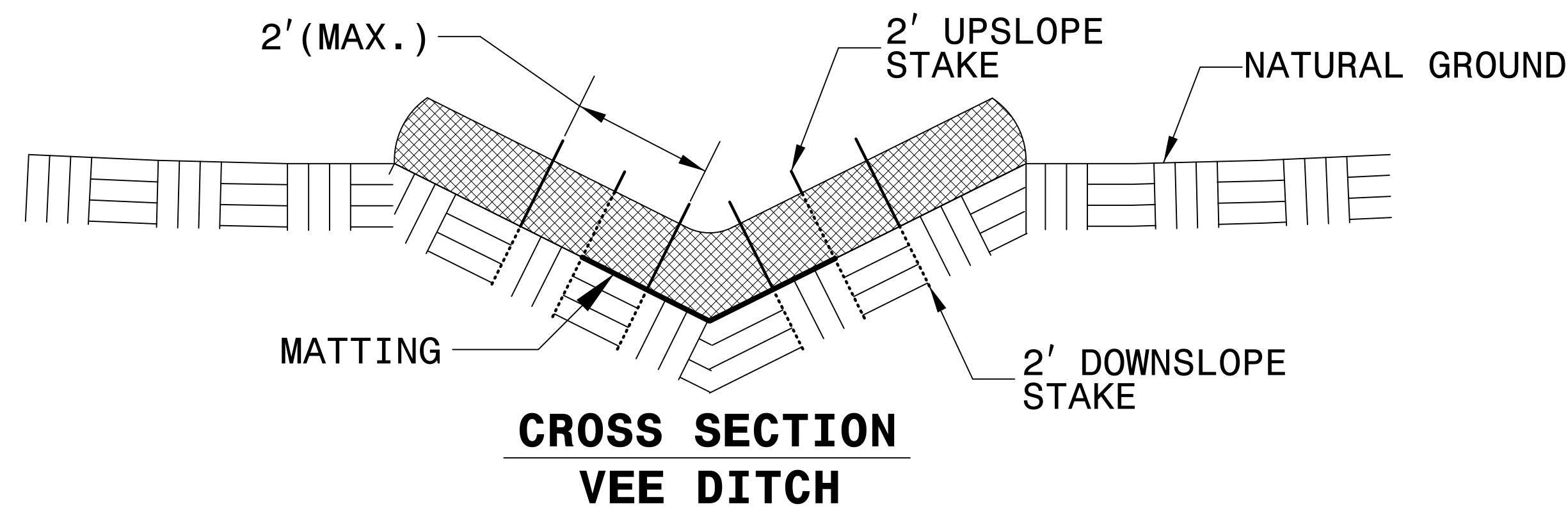
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

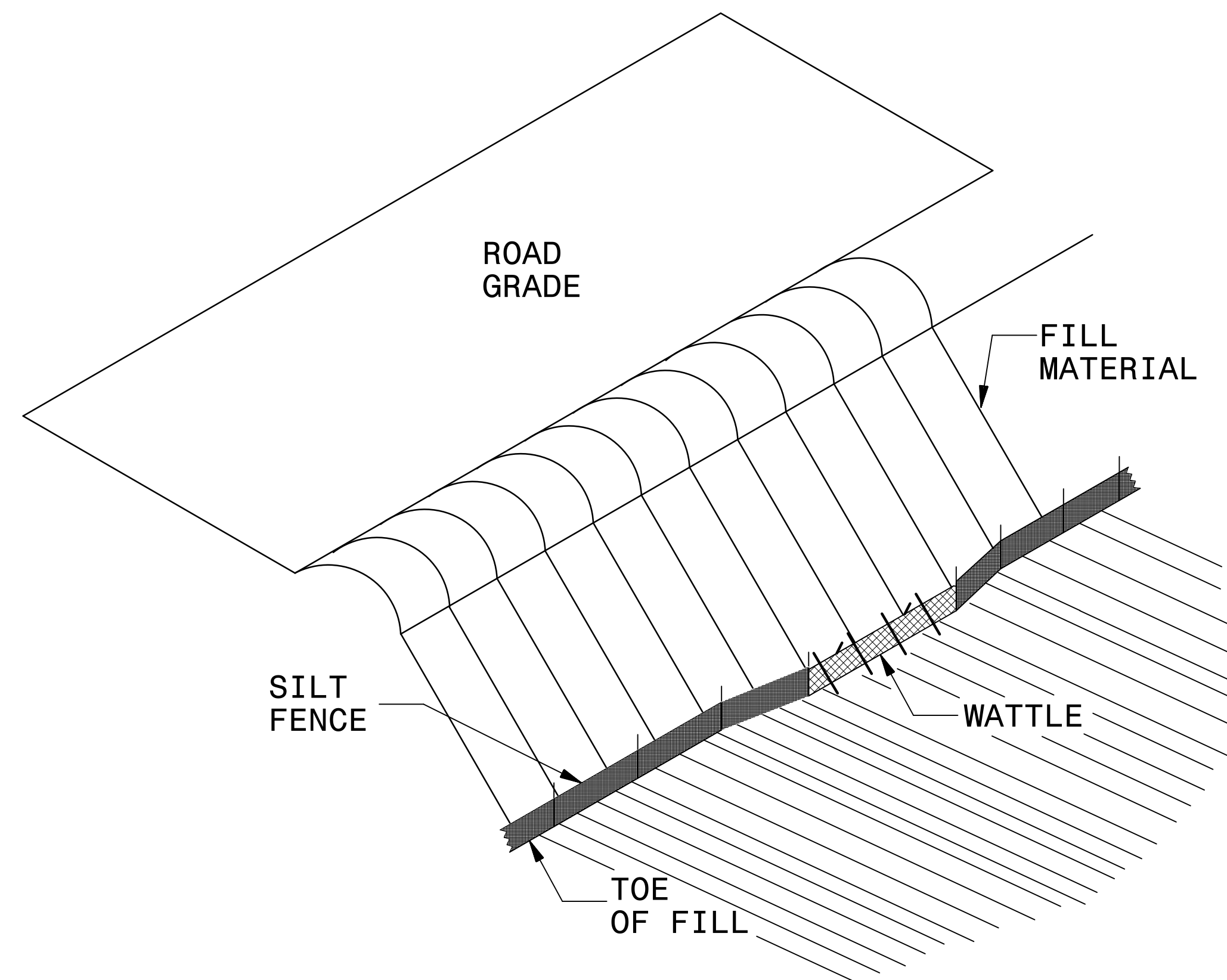
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

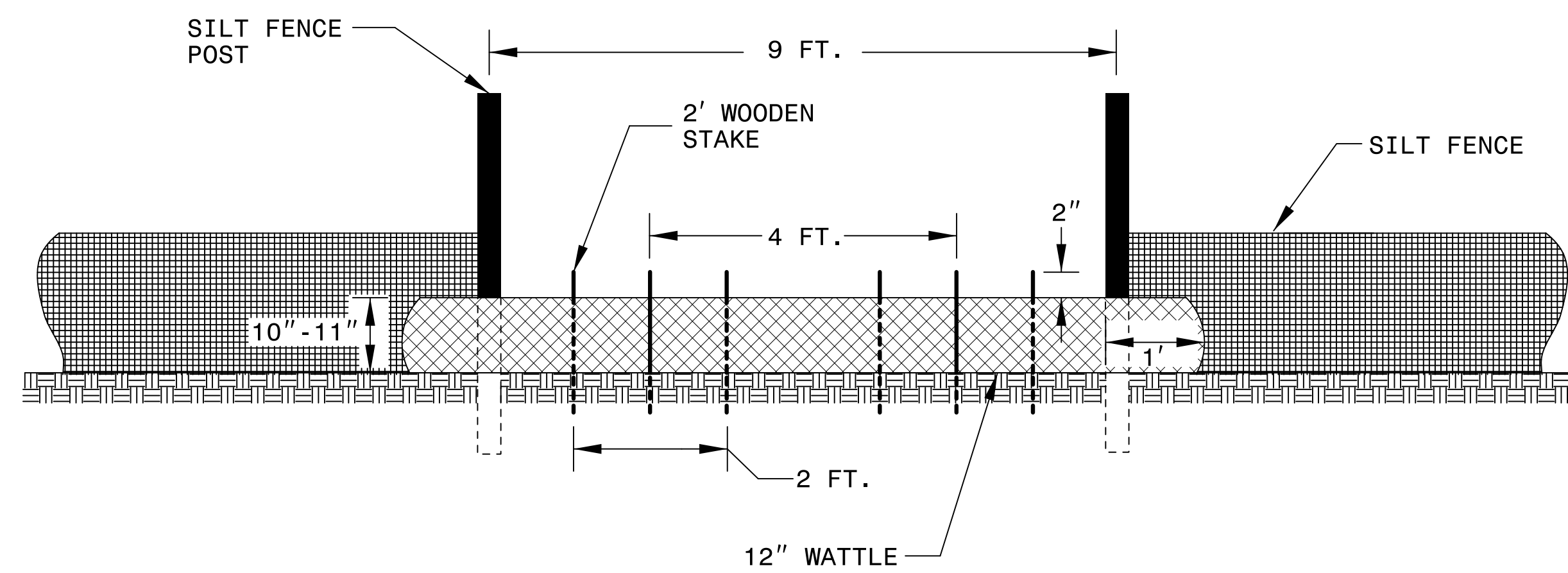
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW

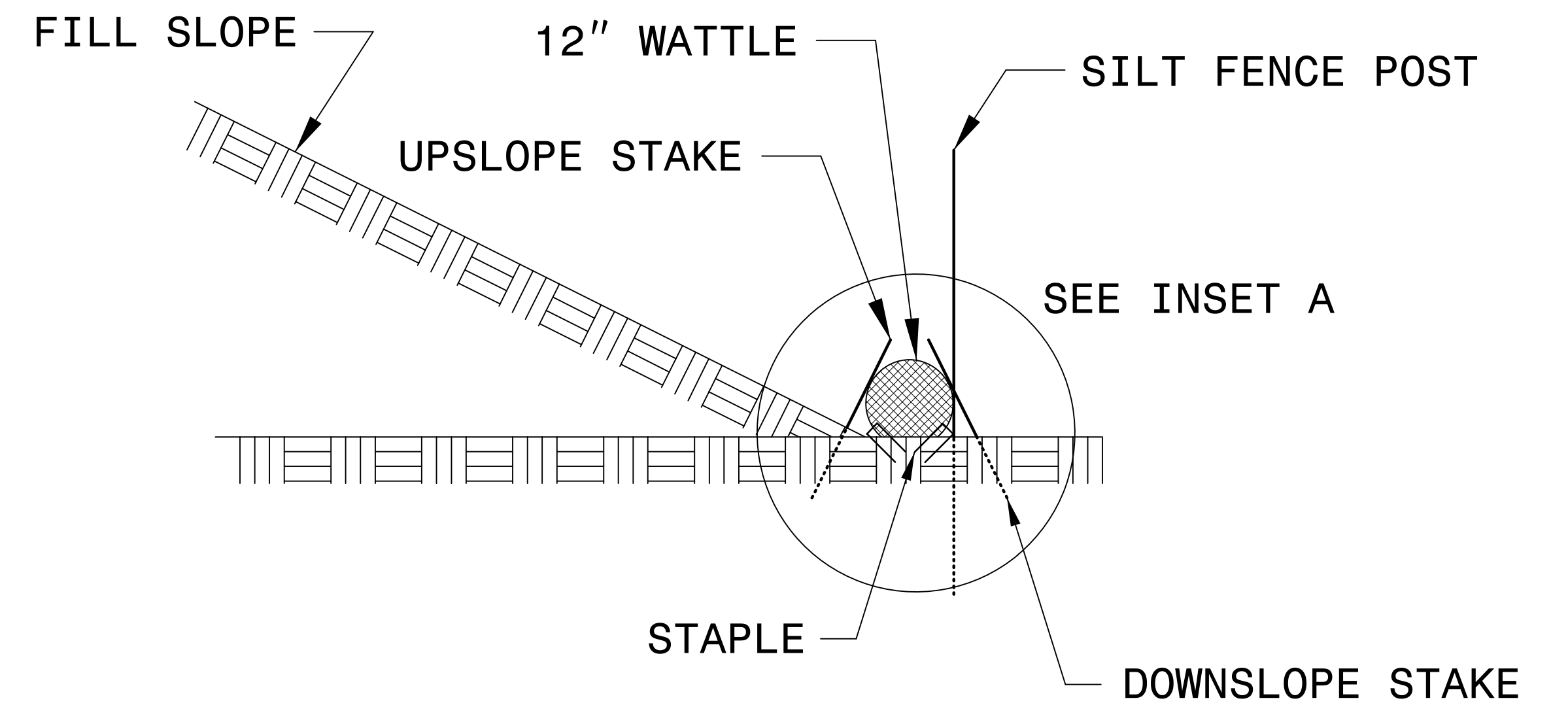
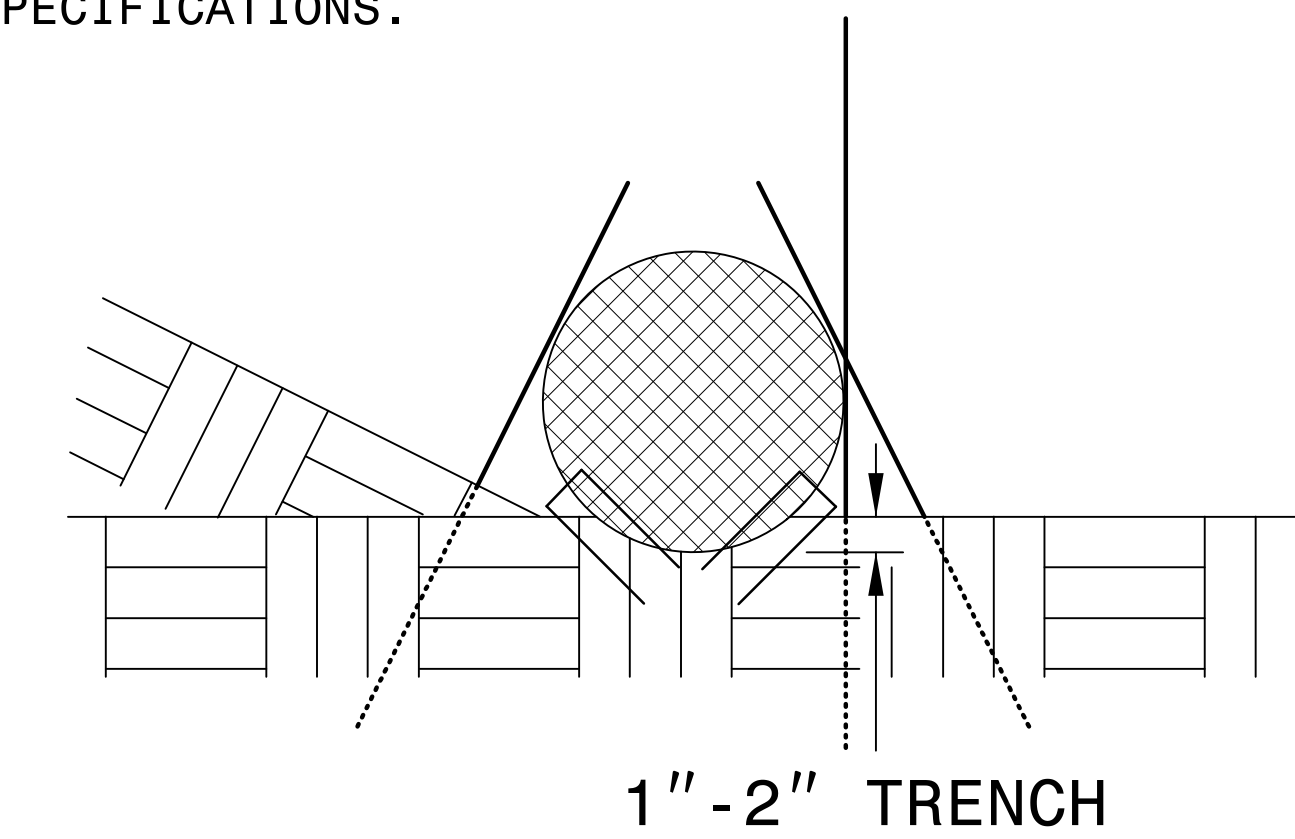


VIEW FROM SLOPE

NOTES:

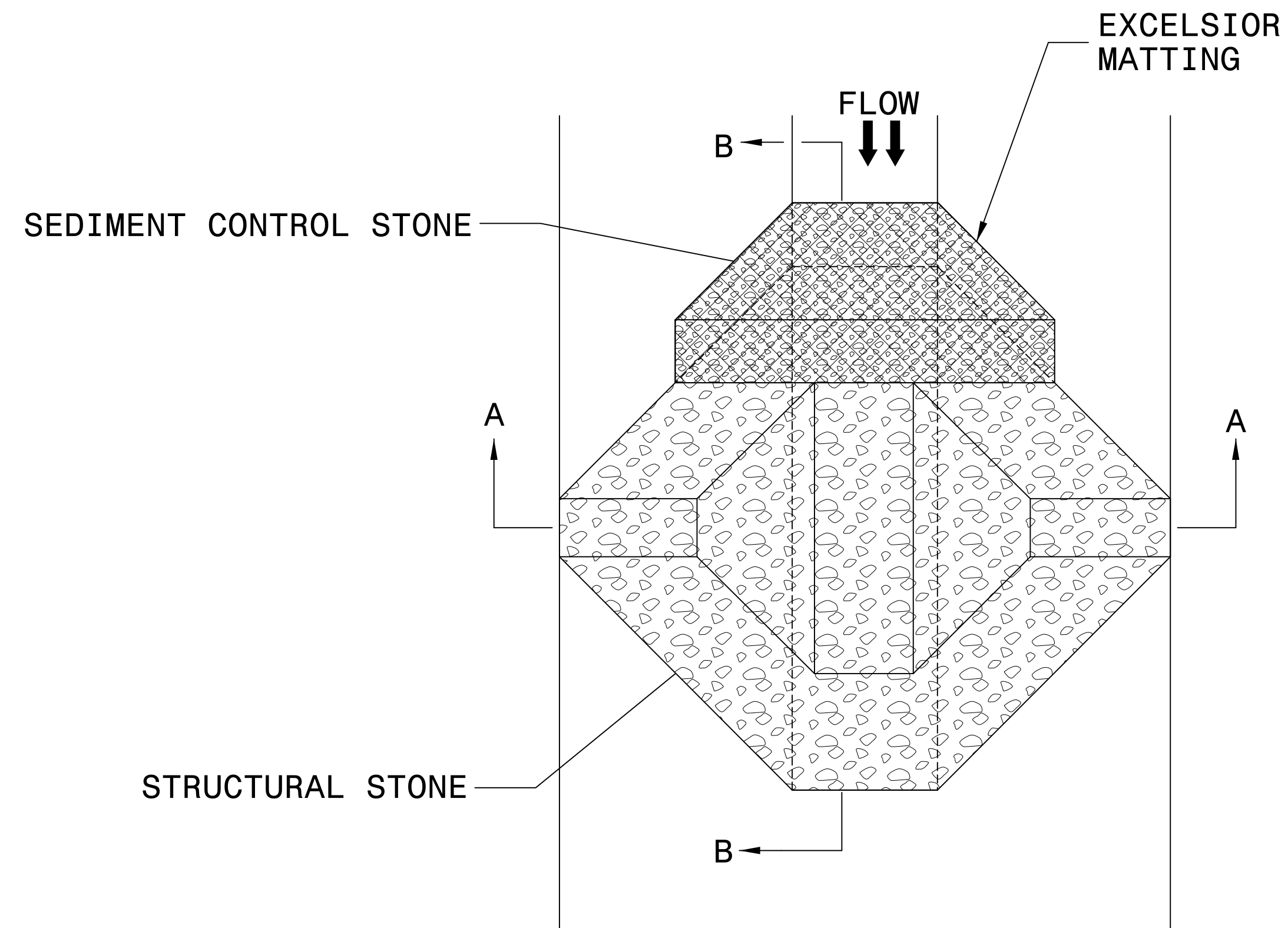
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A



SIDE VIEW

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



PLAN

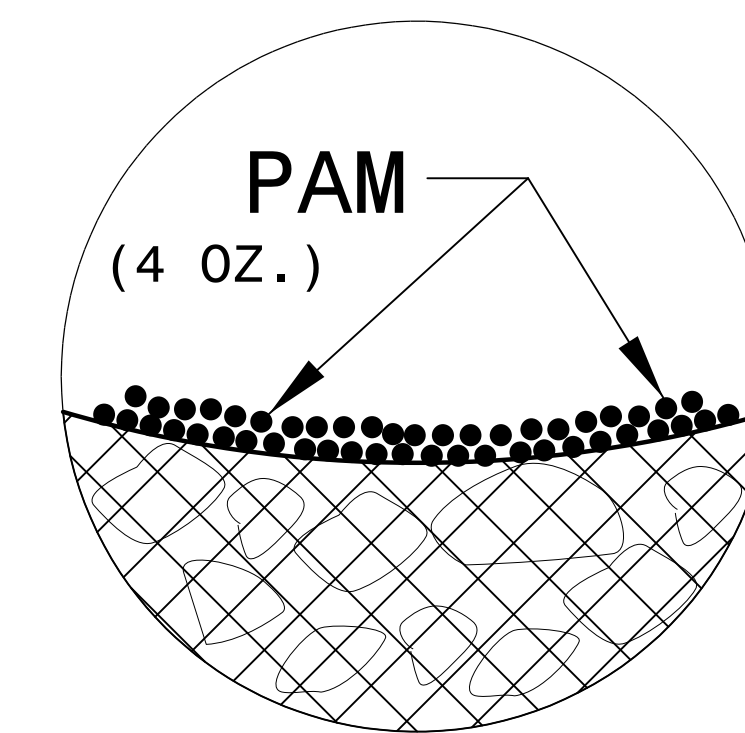
NOTES:

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

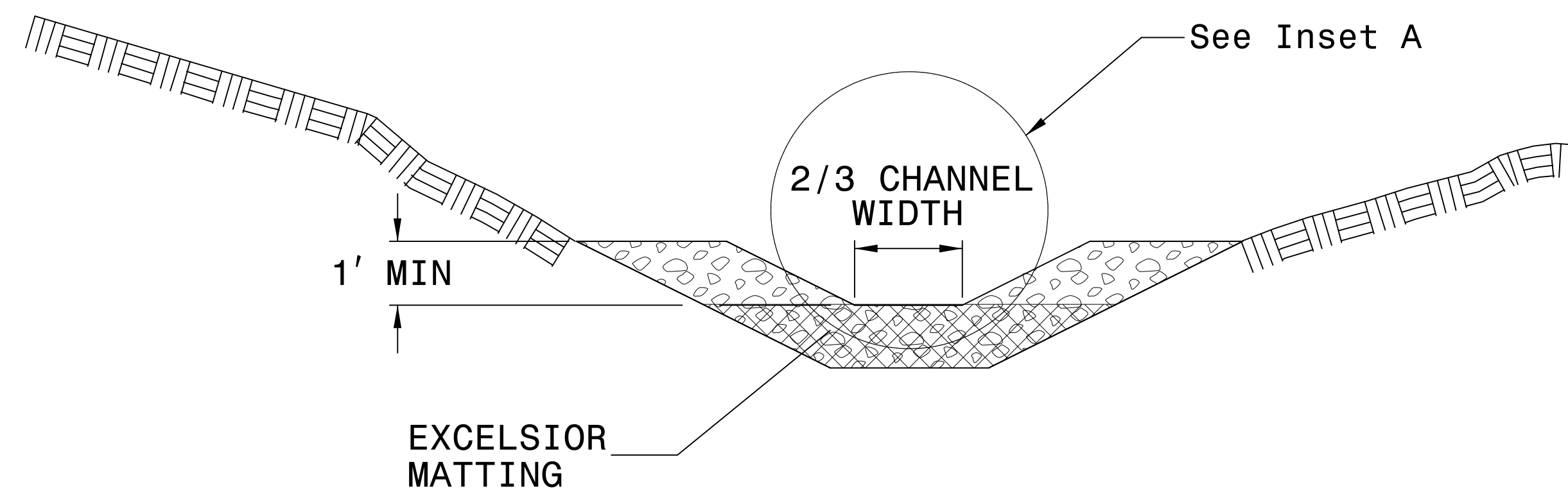
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

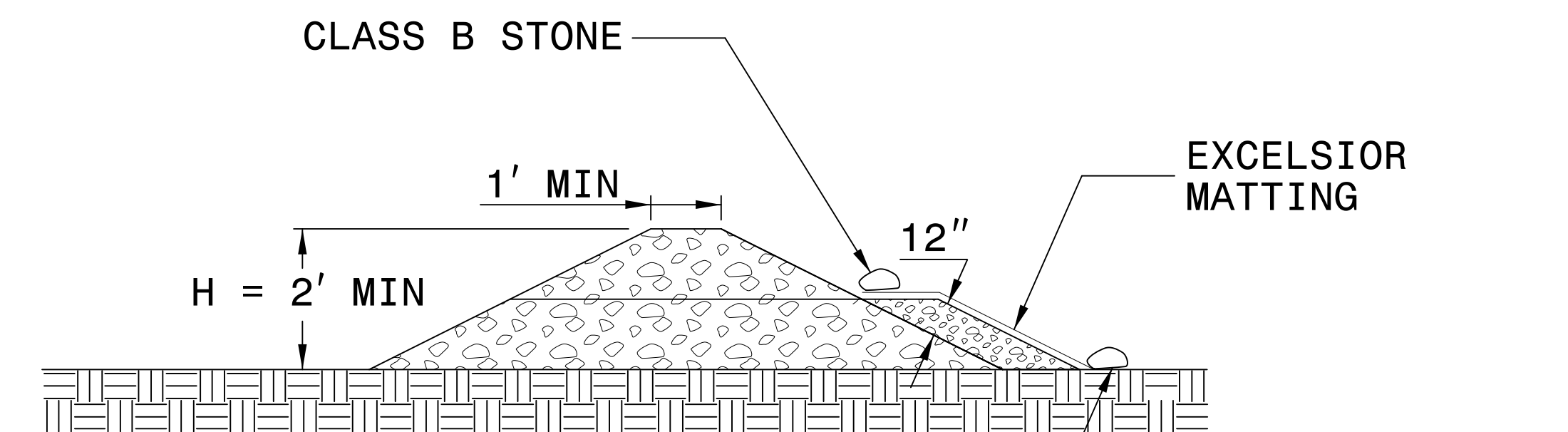
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



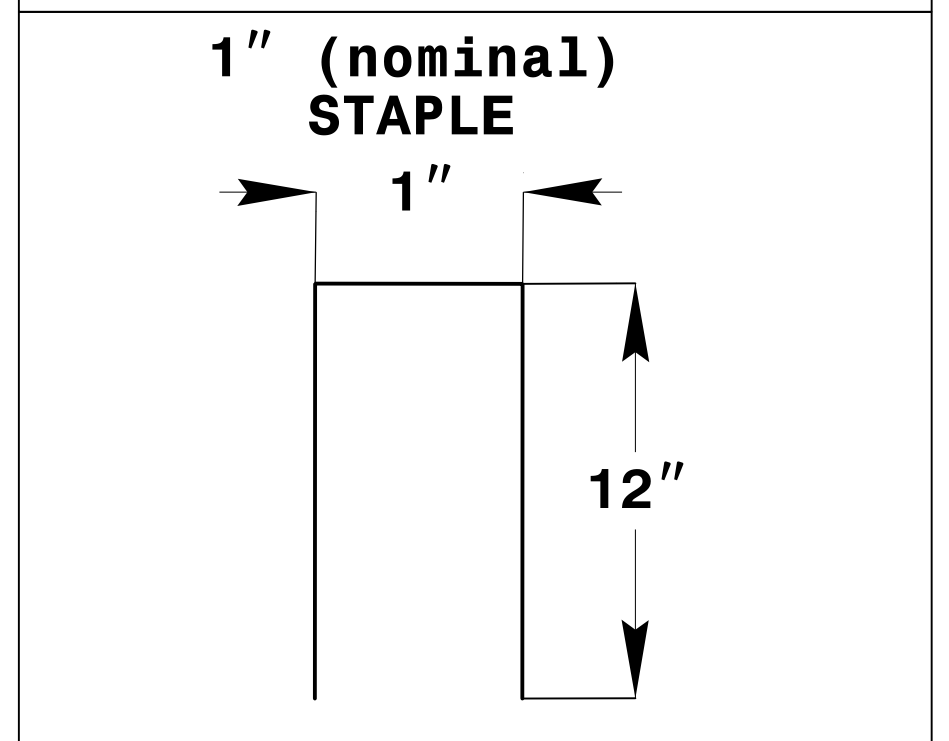
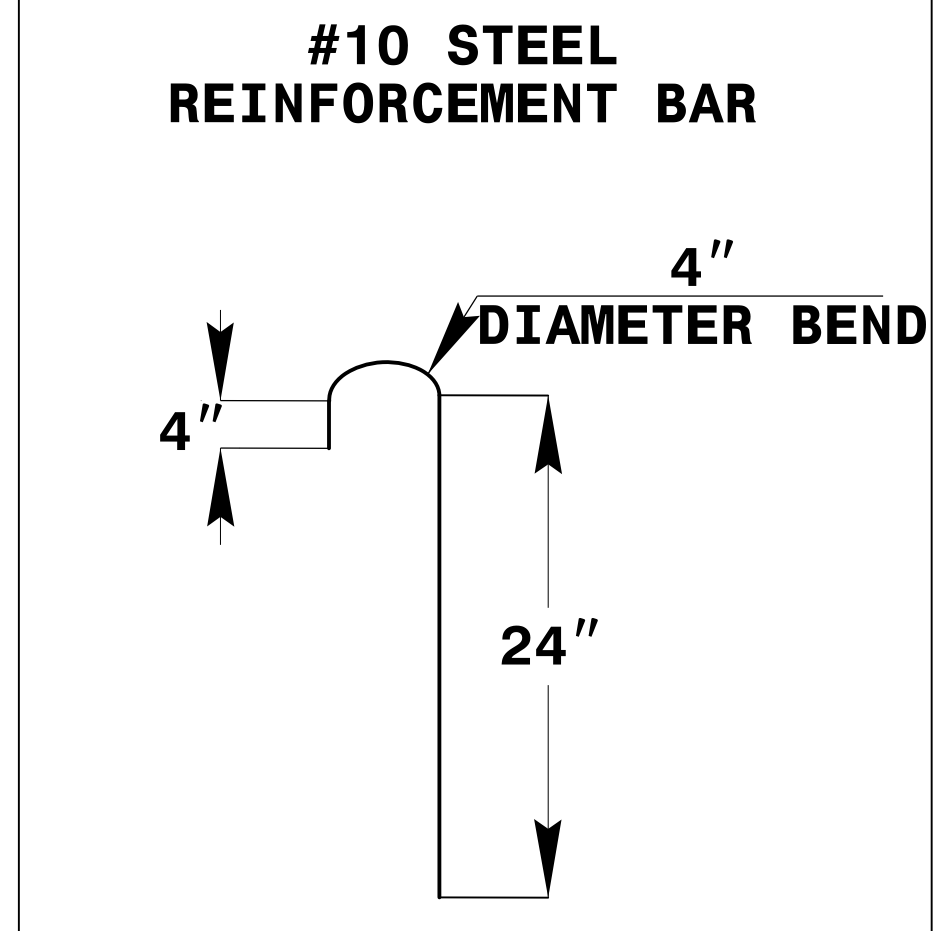
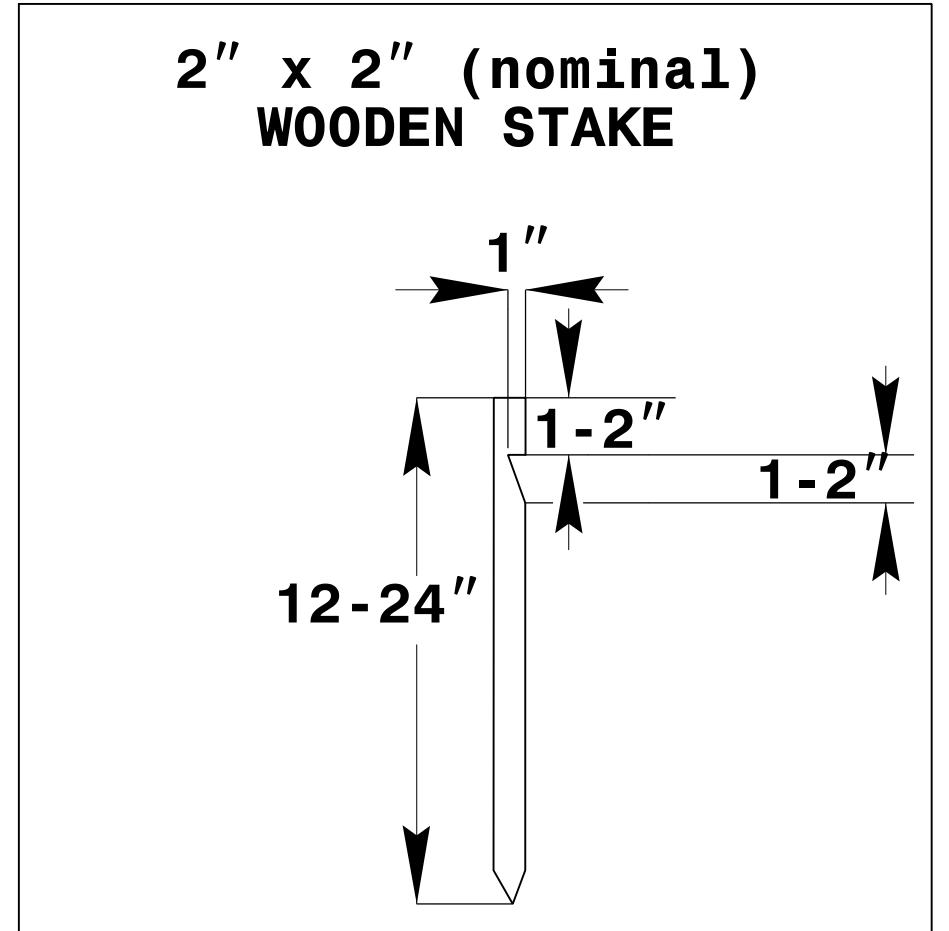
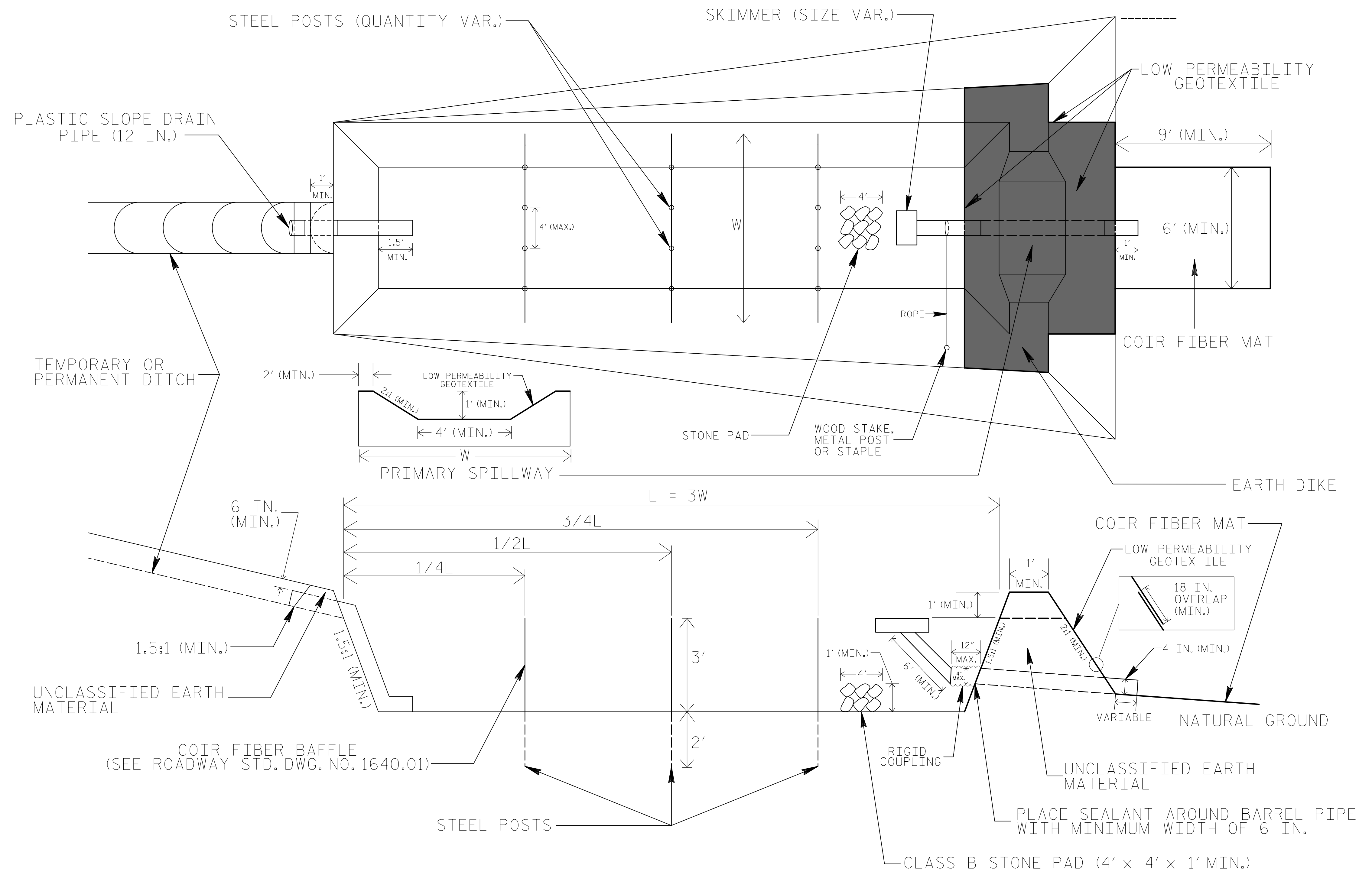
SECTION A-A



SECTION B-B

NOT TO SCALE

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)




COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA


PROJECT REFERENCE NO. U-5921	SHEET NO. EC-3A
RW SHEET NO.	
 STV Engineers, Inc. <small>900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991</small>	

SOIL STABILIZATION TIMEFRAMES

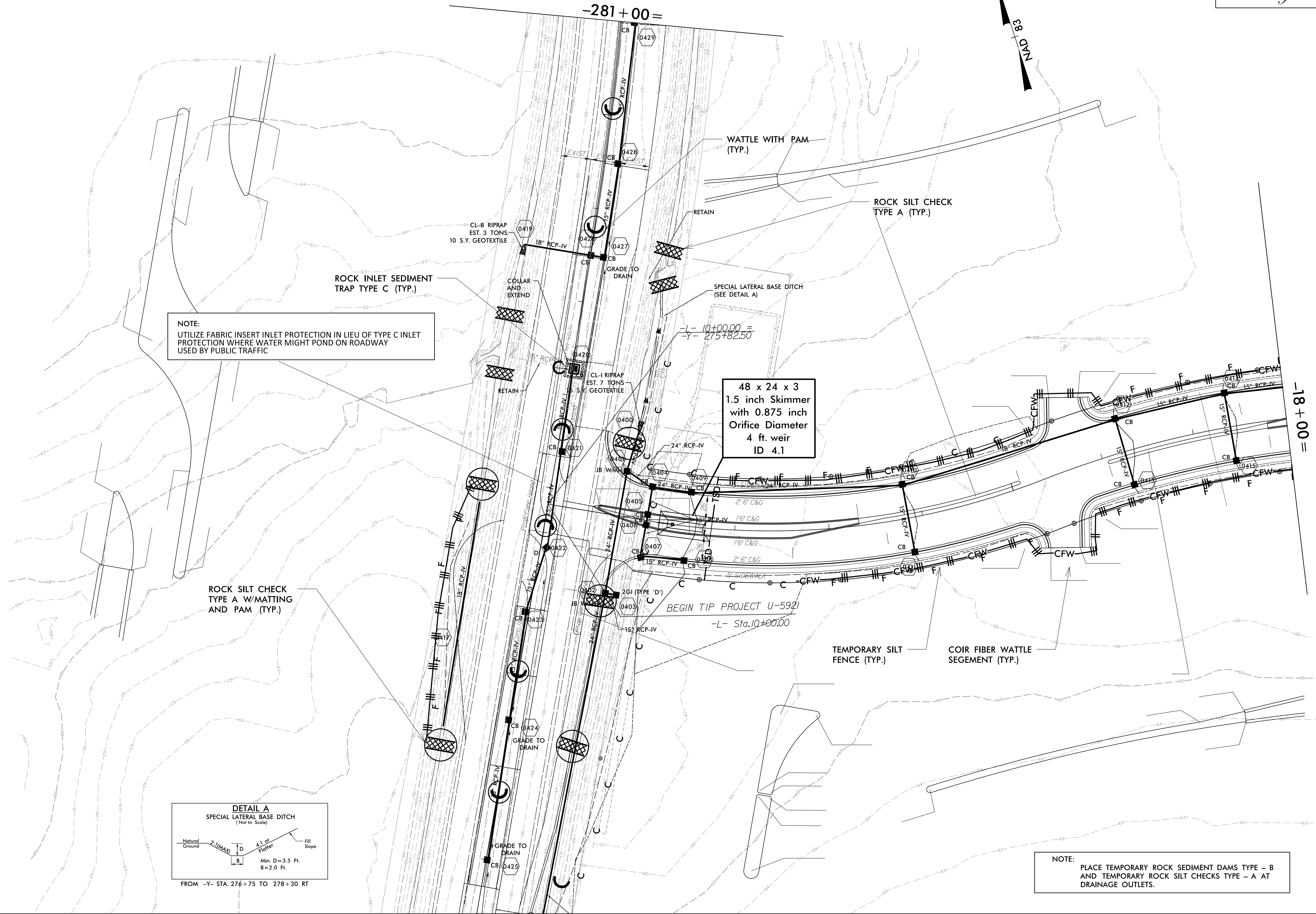
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective August 3, 2011 issued by the North Carolina Department of Environment and Natural Resources Division of Water Quality. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity. Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

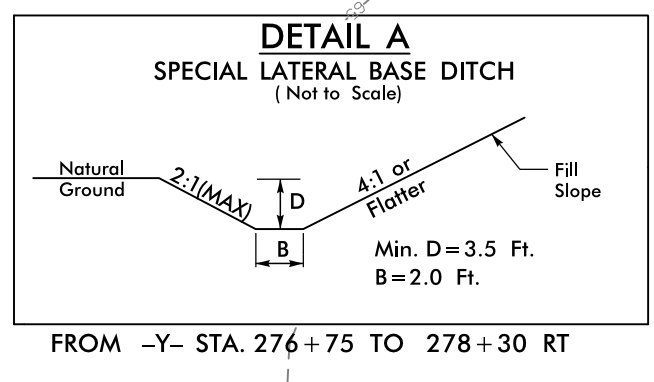
PROJECT REFERENCE NO. U-5921	SHEET NO. EC-4/CONST.-4
RW SHEET NO.	
 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	

SCALE: 1"=50'



NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF TYPE C INLET PROTECTION WHERE WATER MIGHT POND ON ROADWAY USED BY PUBLIC TRAFFIC


48 x 24 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 4.1



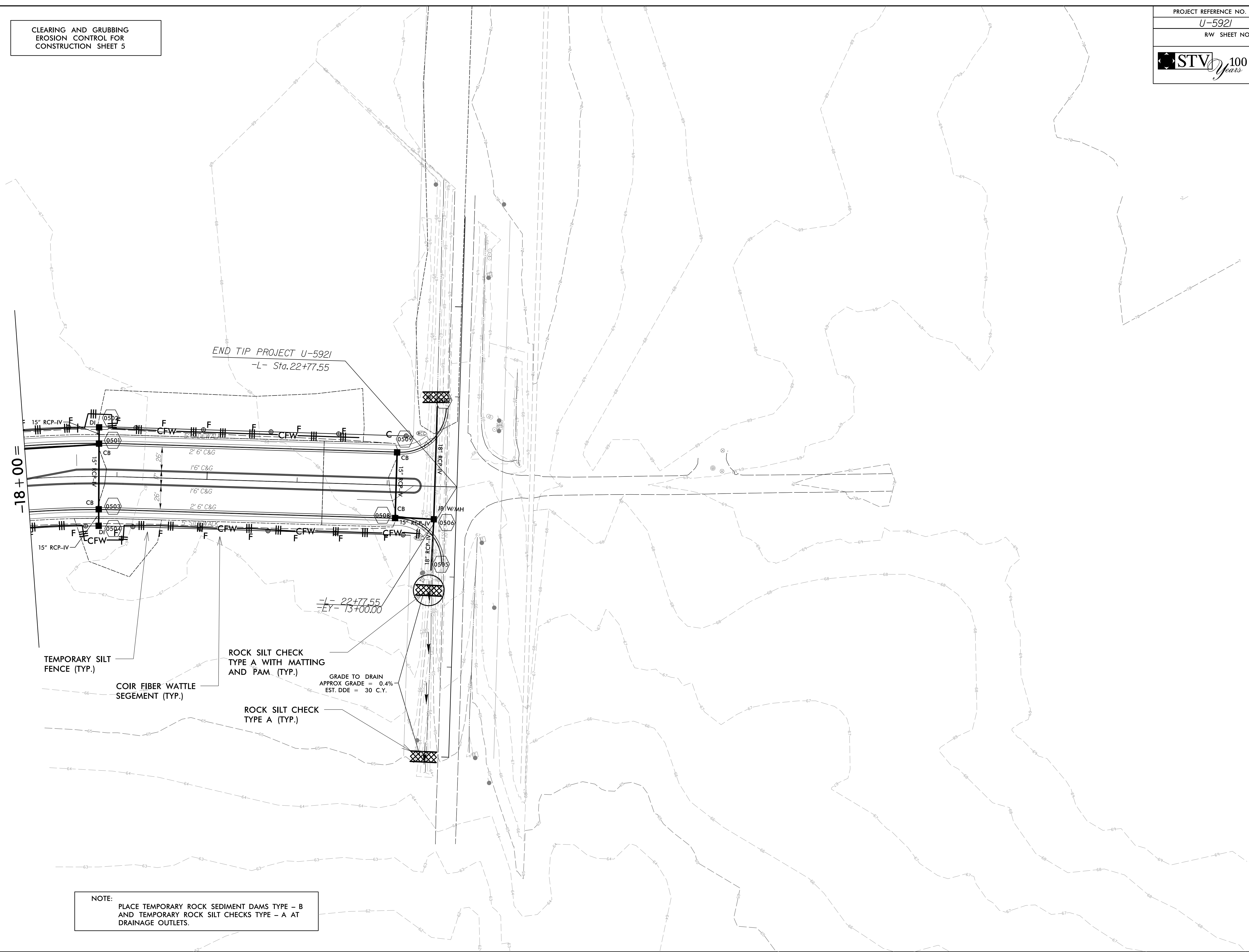
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
U-5921	EC-5/CONST.-5
RW SHEET NO. ———	
 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	

SCALE: 1"=50'



TEMPORARY SILT
FENCE (TYP.)

COIR FIBER WATTLE
SEGEMENT (TYP.)

ROCK SILT CHECK
TYPE A WITH MATTING
AND PAM. (TYP.)

GRADE TO DRAIN
APPROX GRADE = 0.4%
EST. DDE = 30 C.Y.

ROCK SILT CHECK
TYPE A (TYP.)

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

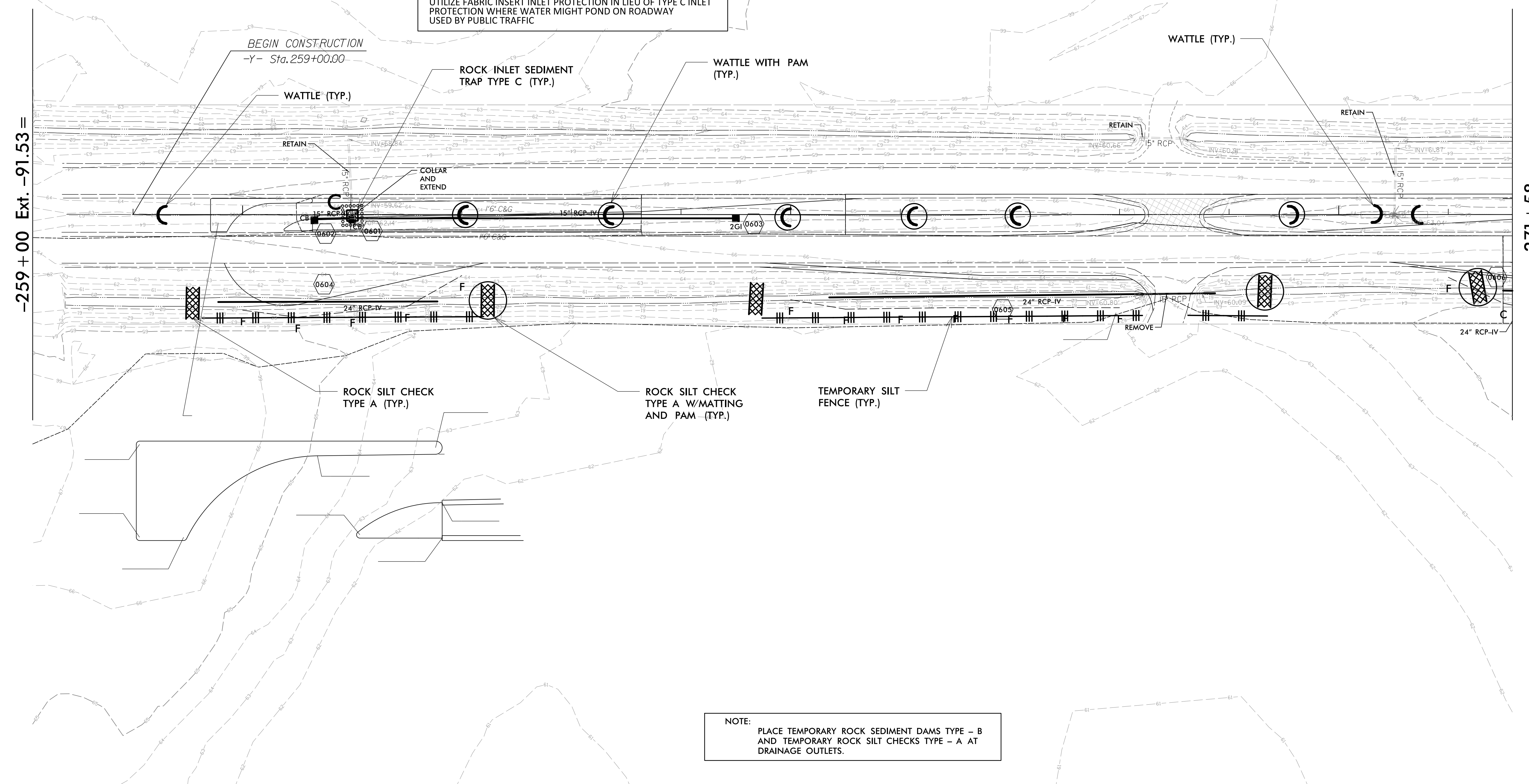
5/17/2017
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bentl

SCALE: 1"=50'

8/17/99

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6**

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF TYPE C INLET
PROTECTION WHERE WATER MIGHT POND ON ROADWAY
USED BY PUBLIC TRAFFIC



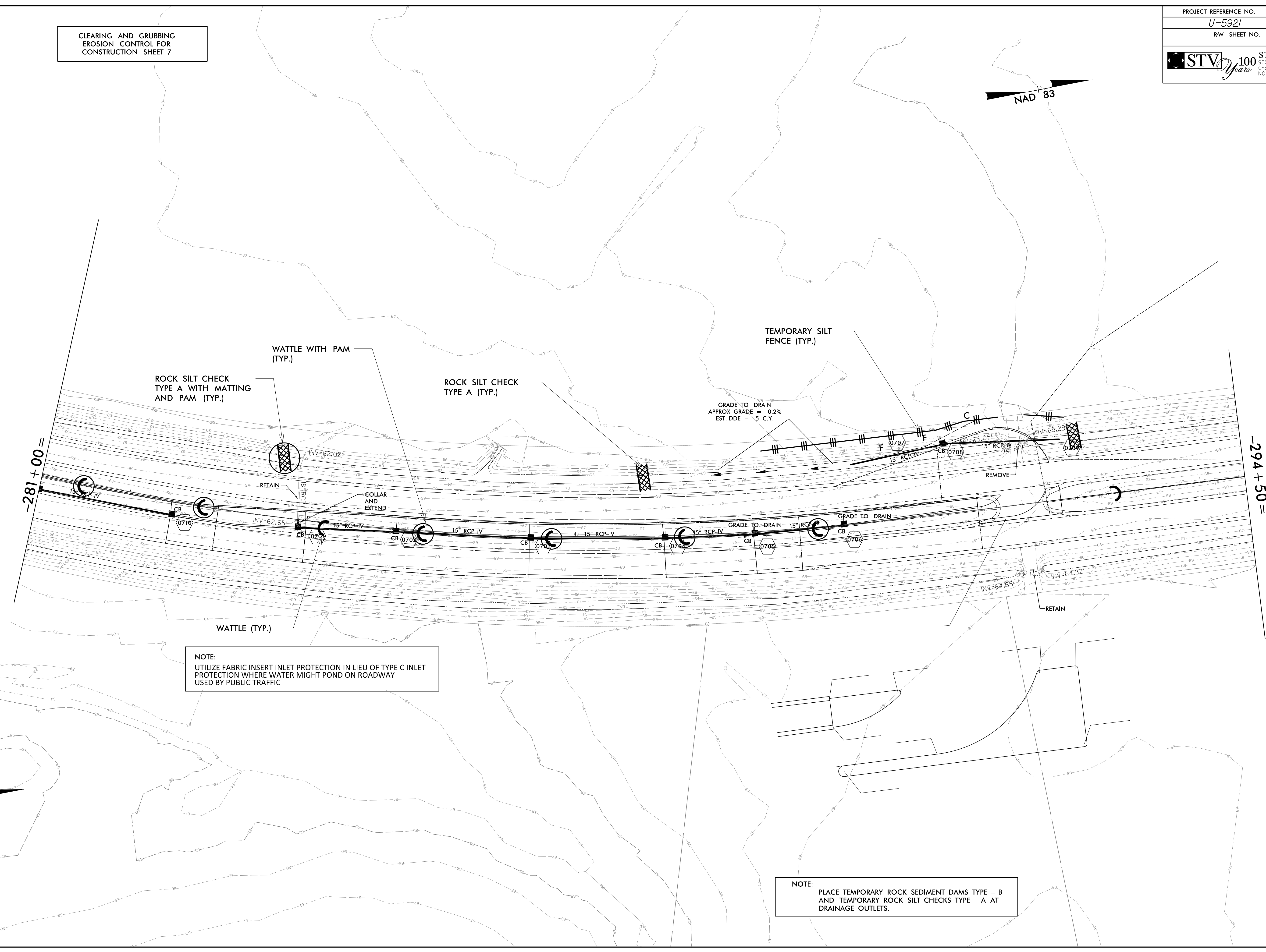
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

5/1/2017
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STV

SCALE: 1"=50'



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7



ROCK SILT CHECK
TYPE A WITH MATTING
AND PAM (TYP.)

WATTLE WITH PAM
(TYP.)

ROCK SILT CHECK
TYPE A (TYP.)

TEMPORARY SILT
FENCE (TYP.)

GRADE TO DRAIN
APPROX GRADE = 0.2%
EST. DDE = 5 C.Y.

-281+00=

=-294+50

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF TYPE C INLET
PROTECTION WHERE WATER MIGHT POND ON ROADWAY
USED BY PUBLIC TRAFFIC


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

8/17/99

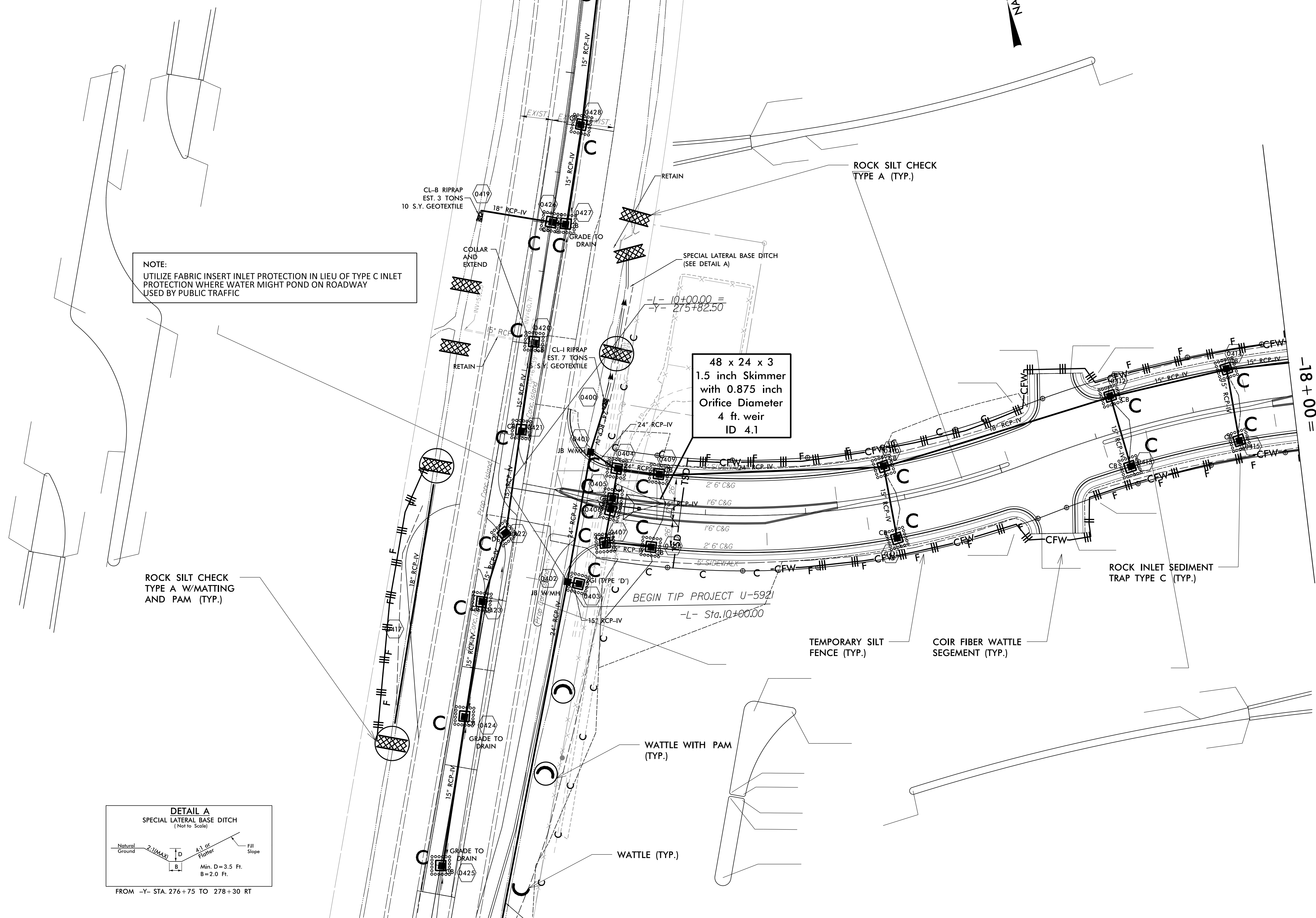
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8/17/99

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
U-5921	EC-B/CONST.-4
RW SHEET NO.	
 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	

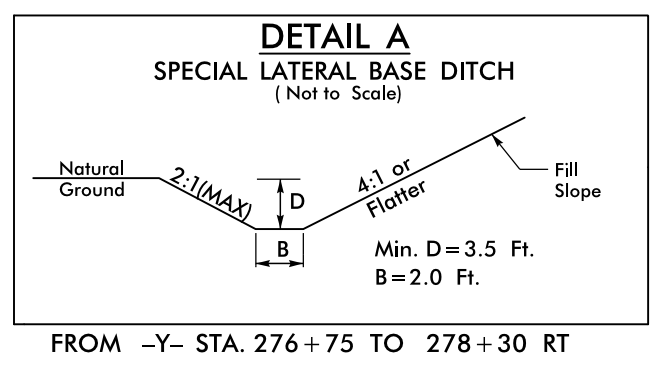
SCALE: 1"=50'



NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF TYPE C INLET PROTECTION WHERE WATER MIGHT POND ON ROADWAY USED BY PUBLIC TRAFFIC


ROCK SILT CHECK TYPE A W/MATTING AND PAM (TYP.)

48 x 24 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 4.1

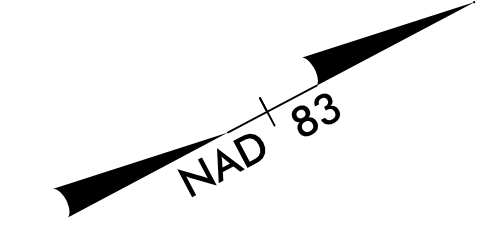


5/17/2017
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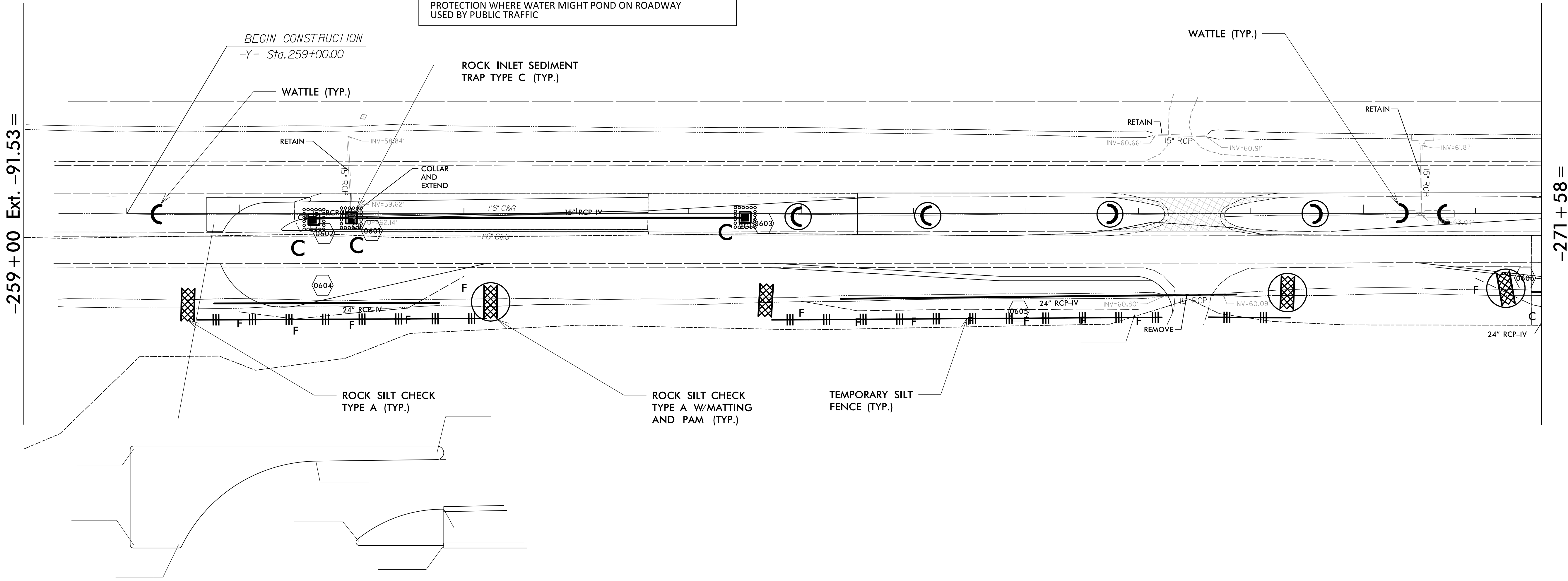
FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
U-5921	EC-10/CONST.-6
RW SHEET NO. _____	
 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	

SCALE: 1"=50'




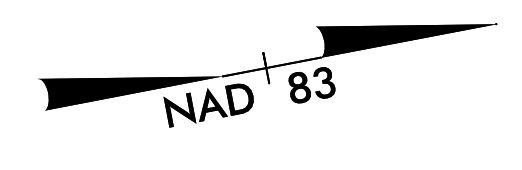
NOTE:
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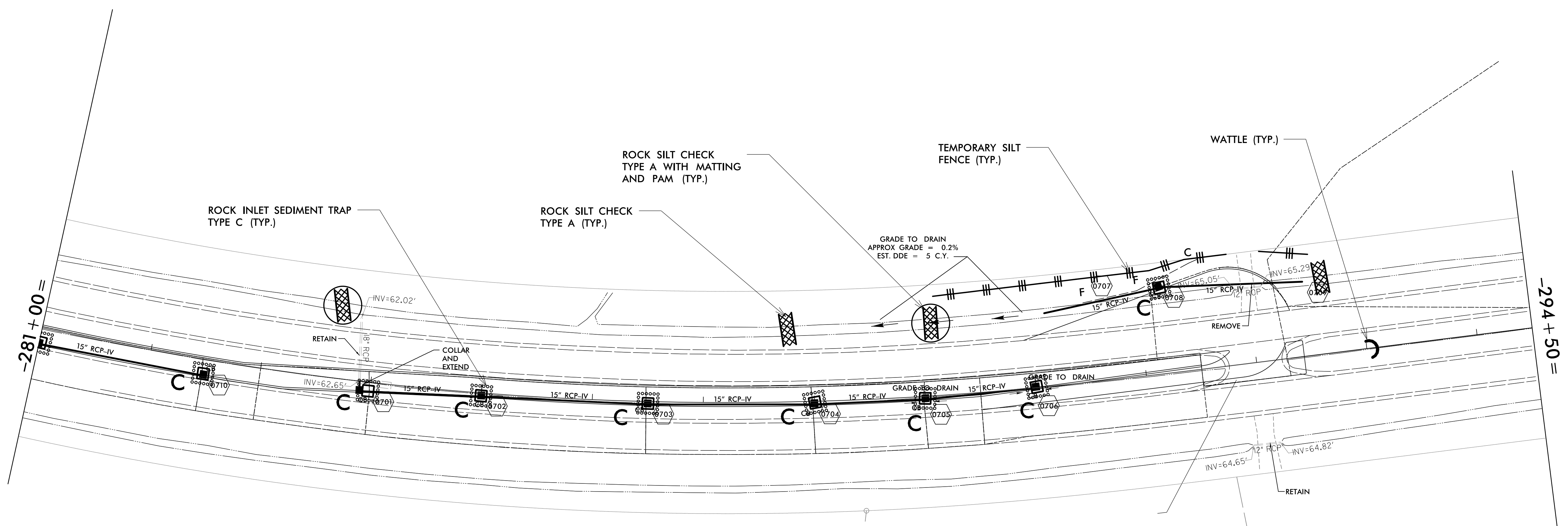
8/17/99

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 7

PROJECT REFERENCE NO.	SHEET NO.
U-5921	EC-II/CONST.-7
RW SHEET NO. _____	
 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	



SCALE: 1"=50'

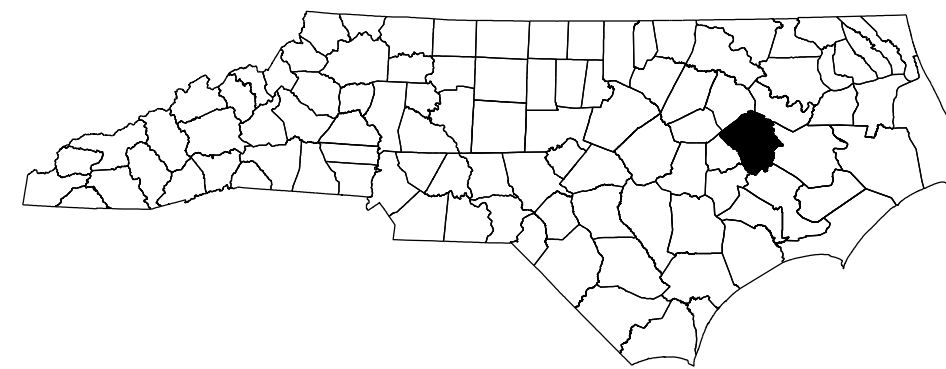
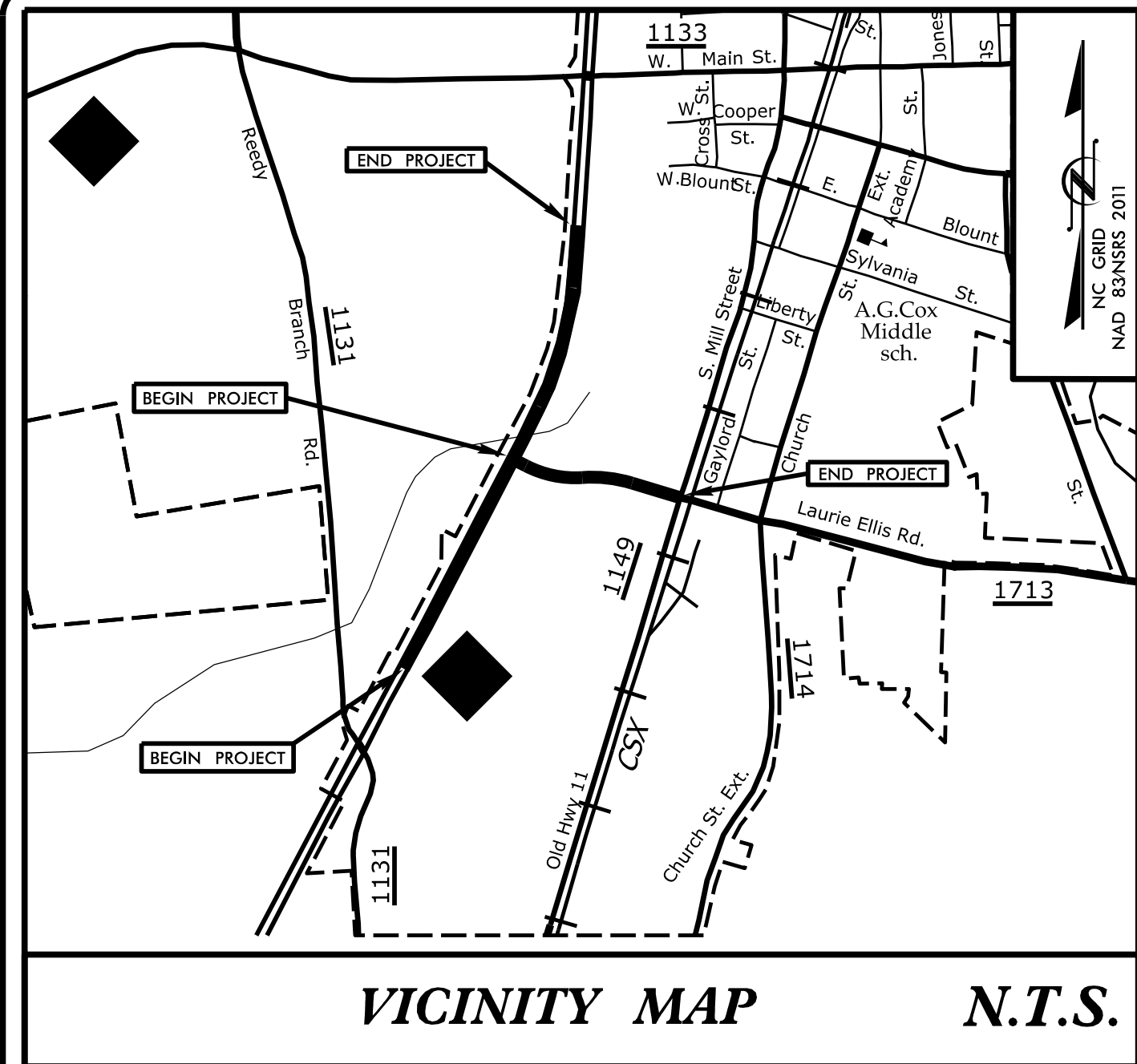


NOTE:
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5/1/2017 R:\Environmental\Design\U5921-EC.pah.11.dgn

4/14/17

TIP PROJECT: U-5921

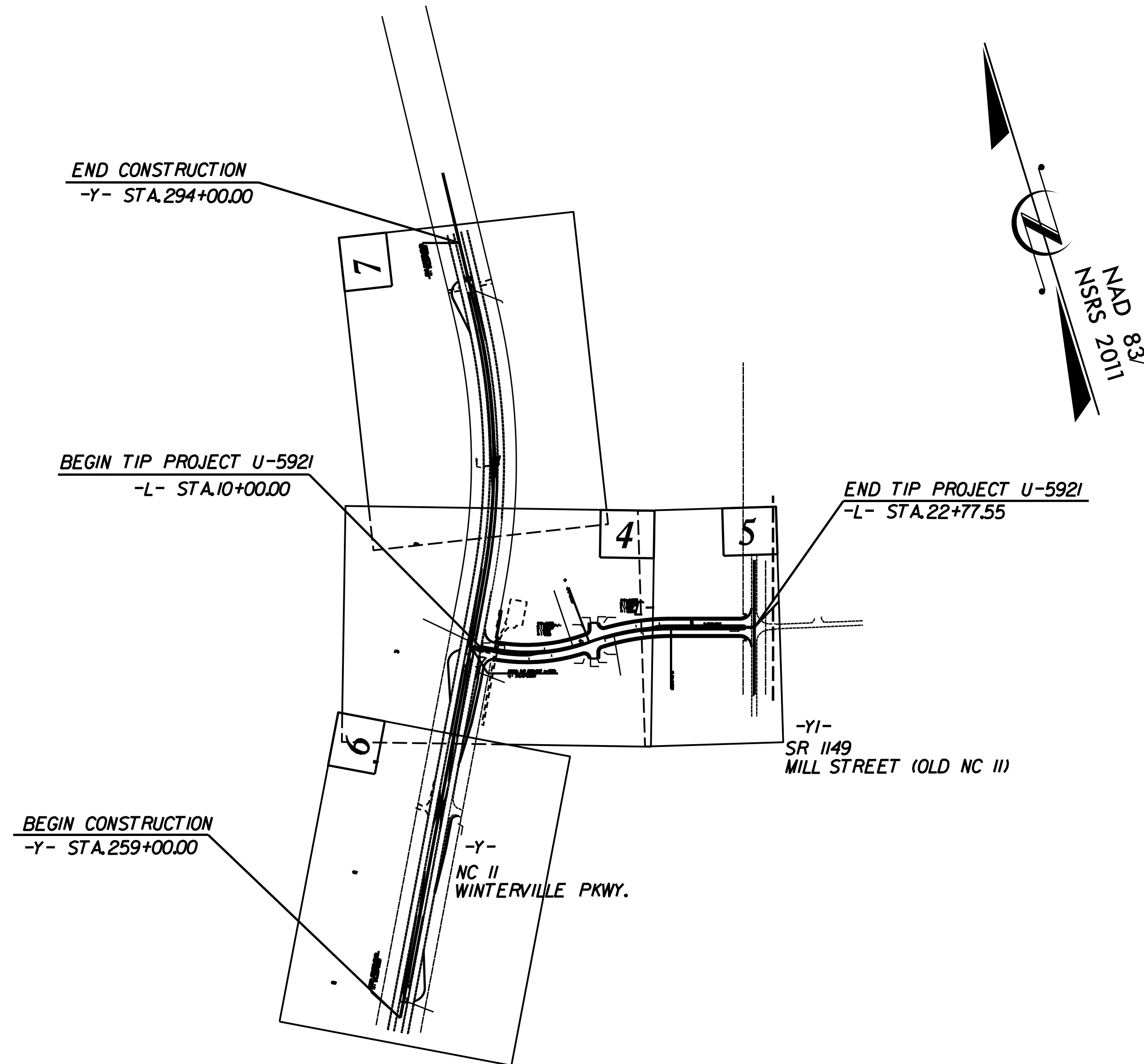


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS
PITT COUNTY**

LOCATION: LAURIE ELLIS ROAD FROM NC 11 TO SR 1149 (MILL STREET)
TYPE OF WORK: AERIAL POWER

PROJECT REFERENCE NO.	SHEET NO.
U-5921	UO-1



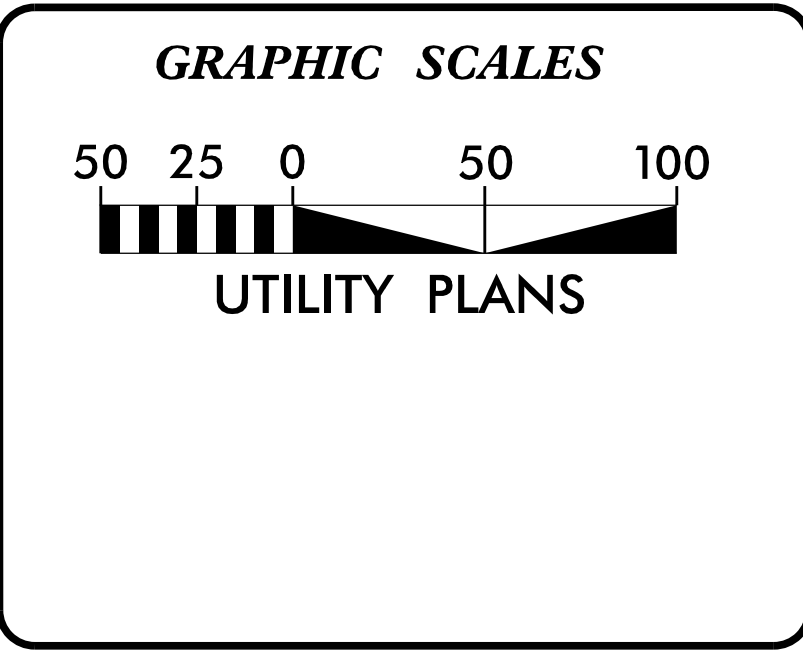
CONTRACT: DB00360

V&M
Vaughn & Melton
Consulting Engineers

New Bern,
North Carolina
252-631-5165

Tri-Cities, TN
423-467-8401
 Knoxville, TN
865-546-5800
 Spartanburg, SC
864-574-4775
 Charleston, SC
843-974-5650
 Middlesboro, KY
606-248-6600
 Charlotte, NC
704-357-0488
 Boone, NC
828-355-9933
 Atlanta, GA
770-627-3509

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITIES BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) POWER - TOWN OF WINTERVILLE

PLANS PREPARED BY:

V&M
Vaughn & Melton
Consulting Engineers
315 Trent Ave.
New Bern, NC 28562
252-631-5165

PREPARED FOR THE OFFICE OF:
**DIVISION OF HIGHWAYS
UTILITIES ENGINEERING
SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Todd Lapham DESIGN-BUILD UTILITIES COORDINATOR

UTILITIES PROJECT COORDINATOR

TRANSPORTATION/31614-04-U-5921/UTILITIES/UO-1.DGN

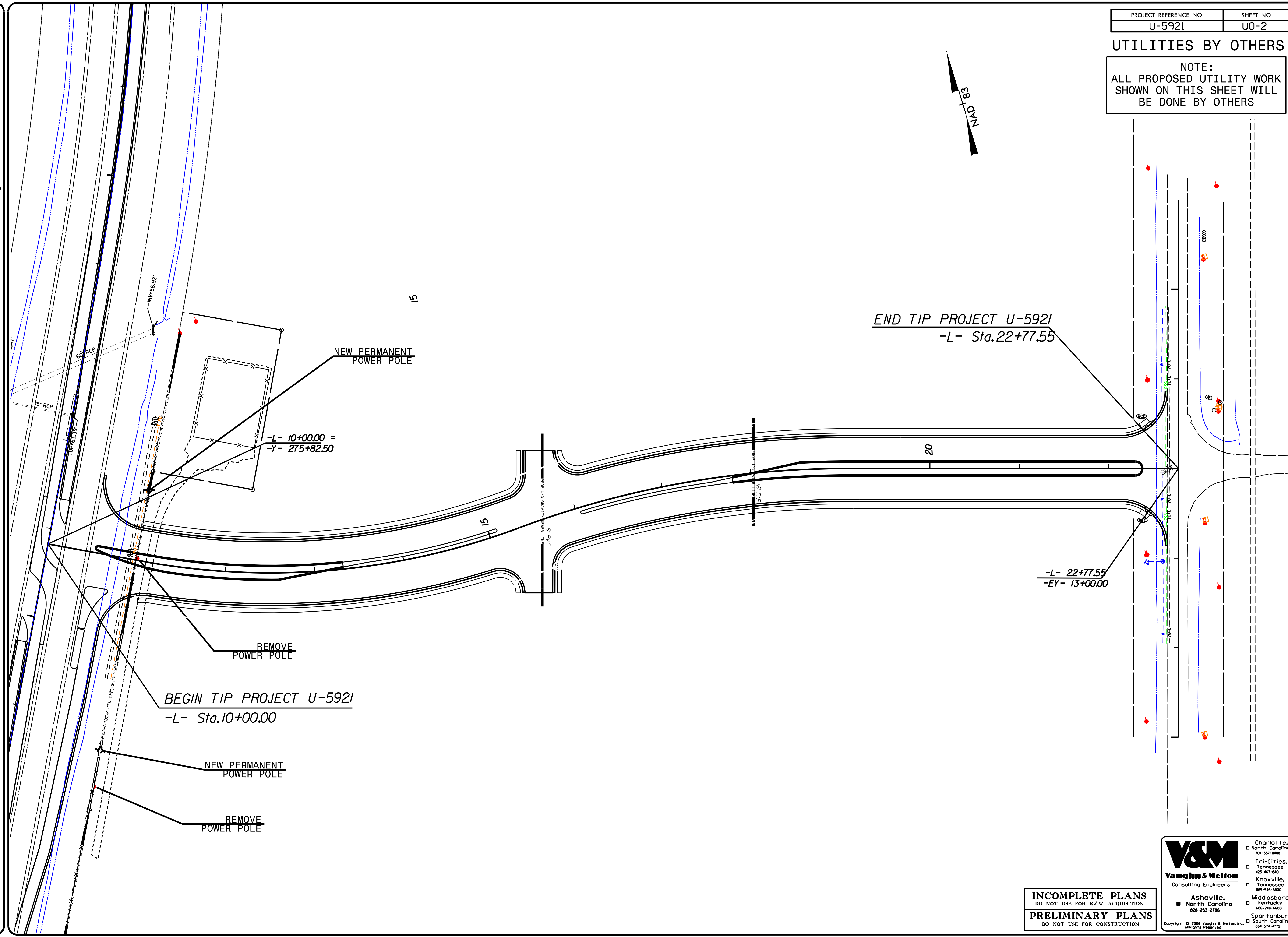
CONTRACT: DB00360

PROJECT: U-5921

PROJECT REFERENCE NO.	SHEET NO.
U-5921	U0-2

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



END TIP PROJECT U-5921
-L- Sta.22+77.55

BEGIN TIP PROJECT U-5921
-L- Sta.10+00.00

-L- 22+77.55
-EY- 13+00.00

-L- 10+00.00 =
-Y- 275+82.50

V&M
Vaughn & Melton
Consulting Engineers

Charlotte, North Carolina 704-397-0488
Tri-Cities, Tennessee 423-467-8400
Knoxville, Tennessee 865-546-5900
Middlesboro, Kentucky 606-249-6600
Spartanburg, South Carolina 864-574-4775

Asheville, North Carolina 828-253-2796

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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

COMPUTED BY: KTB DATE: 03-12-15
 CHECKED BY: DATE:

8/17/99

PROJECT REFERENCE NO. U-5921 SHEET NO. X-0

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

CROSS SECTION SUMMARY
 IN CUBIC YARDS

REVISIONS

-L- STATION	UNCLASSIFIED EXCAVATION	EMBT
11+00.00	0	0
11+50.00	340	0
12+00.00	277	1
12+50.00	227	6
13+00.00	187	11
13+50.00	174	14
14+00.00	165	19
14+50.00	181	17
15+00.00	206	9
15+50.00	189	8
16+00.00	132	18
16+50.00	77	43
17+00.00	36	76
17+50.00	17	91
18+00.00	18	90
18+50.00	18	90
19+00.00	16	92
19+50.00	30	79
20+00.00	38	71
20+50.00	50	65
21+00.00	70	56
21+50.00	89	48
22+00.00	145	26

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

-Y- STATION	UNCLASSIFIED EXCAVATION	EMBT
260+00.00	0	0
260+50.00	12	171
261+00.00	12	188
261+50.00	14	159
262+00.00	16	98
262+50.00	13	52
263+00.00	8	41
263+50.00	6	42
264+00.00	7	30
264+50.00	8	17
265+00.00	8	27
265+50.00	10	50
266+00.00	8	62
266+50.00	4	74
267+00.00	8	99
267+50.00	16	110
268+00.00	28	96
268+50.00	48	42
269+00.00	50	1
269+50.00	29	2
270+00.00	12	9
270+50.00	7	11
271+00.00	10	22
271+50.00	23	42
272+00.00	50	66
272+50.00	92	88
273+00.00	131	93
273+50.00	167	114
274+00.00	189	160
274+50.00	192	198
275+00.00	215	224
275+50.00	169	202
276+00.00	91	126
276+50.00	66	54
277+00.00	57	27
277+50.00	63	37
278+00.00	61	39
278+50.00	34	39

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

-Y- STATION	UNCLASSIFIED EXCAVATION	EMBT
279+00.00	12	41
279+50.00	12	45
280+00.00	11	49
280+50.00	11	51
281+00.00	11	56
281+50.00	9	62
282+00.00	10	62
282+50.00	11	57
283+00.00	11	54
283+50.00	11	51
284+00.00	10	56
284+50.00	9	56
285+00.00	10	41
285+50.00	10	32
286+00.00	9	32
286+50.00	9	30
287+00.00	12	25
287+50.00	13	23
288+00.00	13	23
288+50.00	12	24
289+00.00	12	25
289+50.00	12	25
290+00.00	14	28
290+50.00	16	48
291+00.00	21	68
291+50.00	54	72
292+00.00	119	36

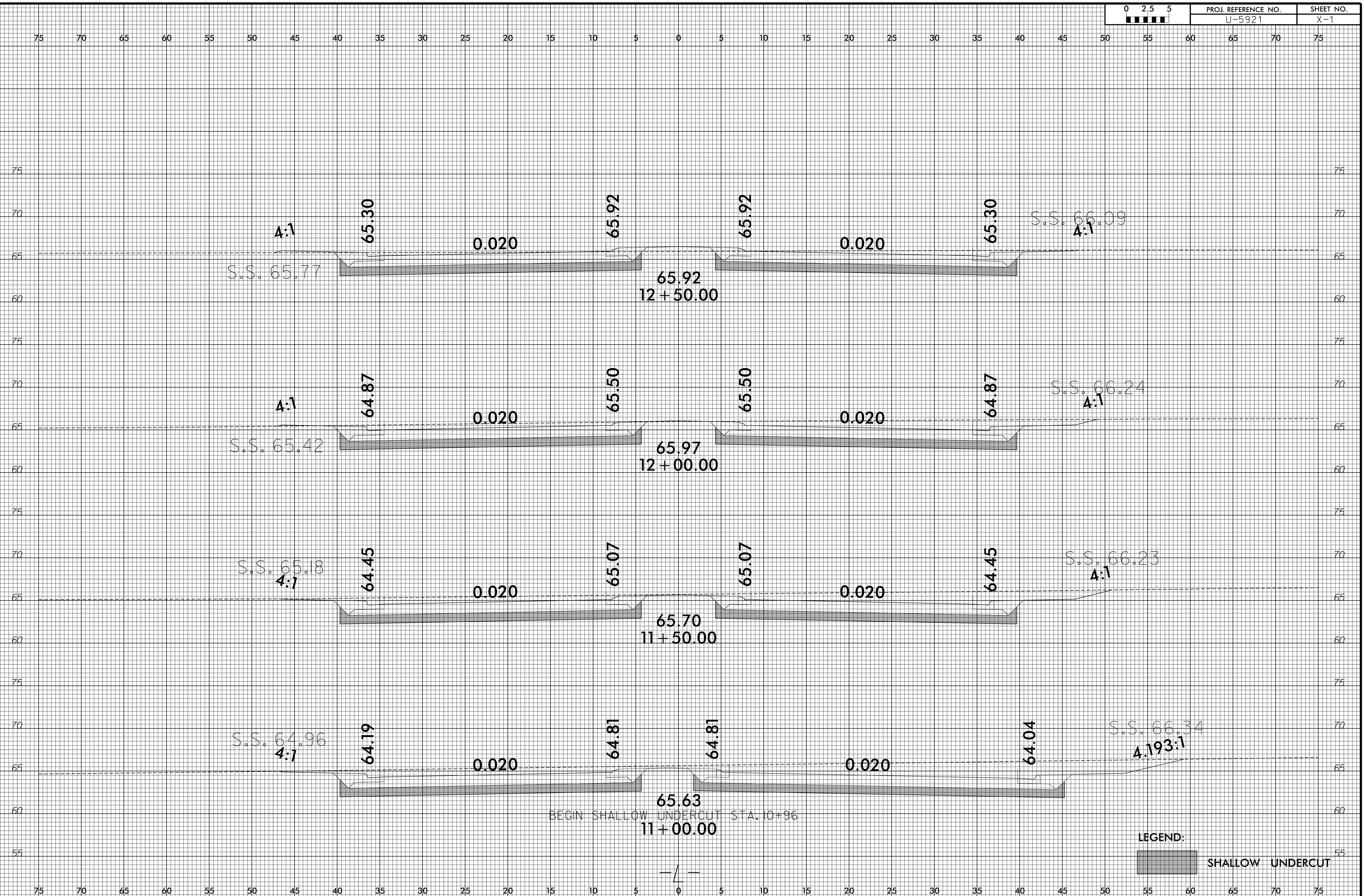
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

SYSTEMS
 11/11/2011 10:00 AM

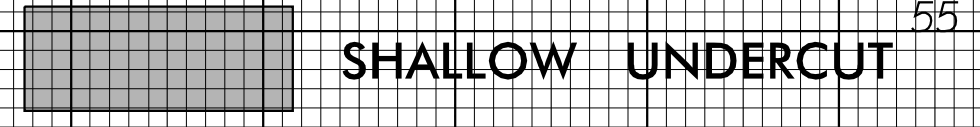
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-1



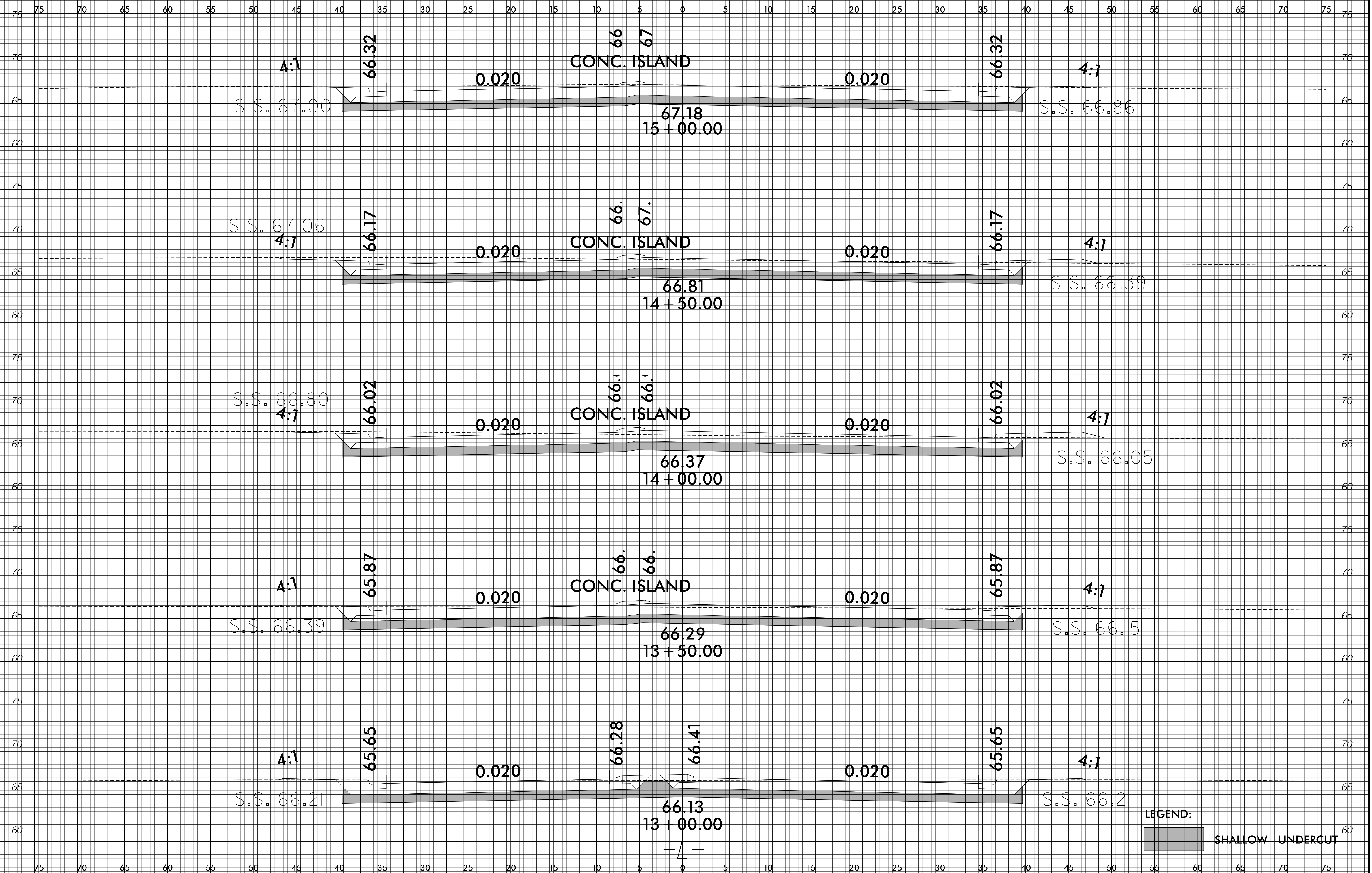
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SHALLOW UNDERCUT

6/23/16

6/23/16



LEGEND:

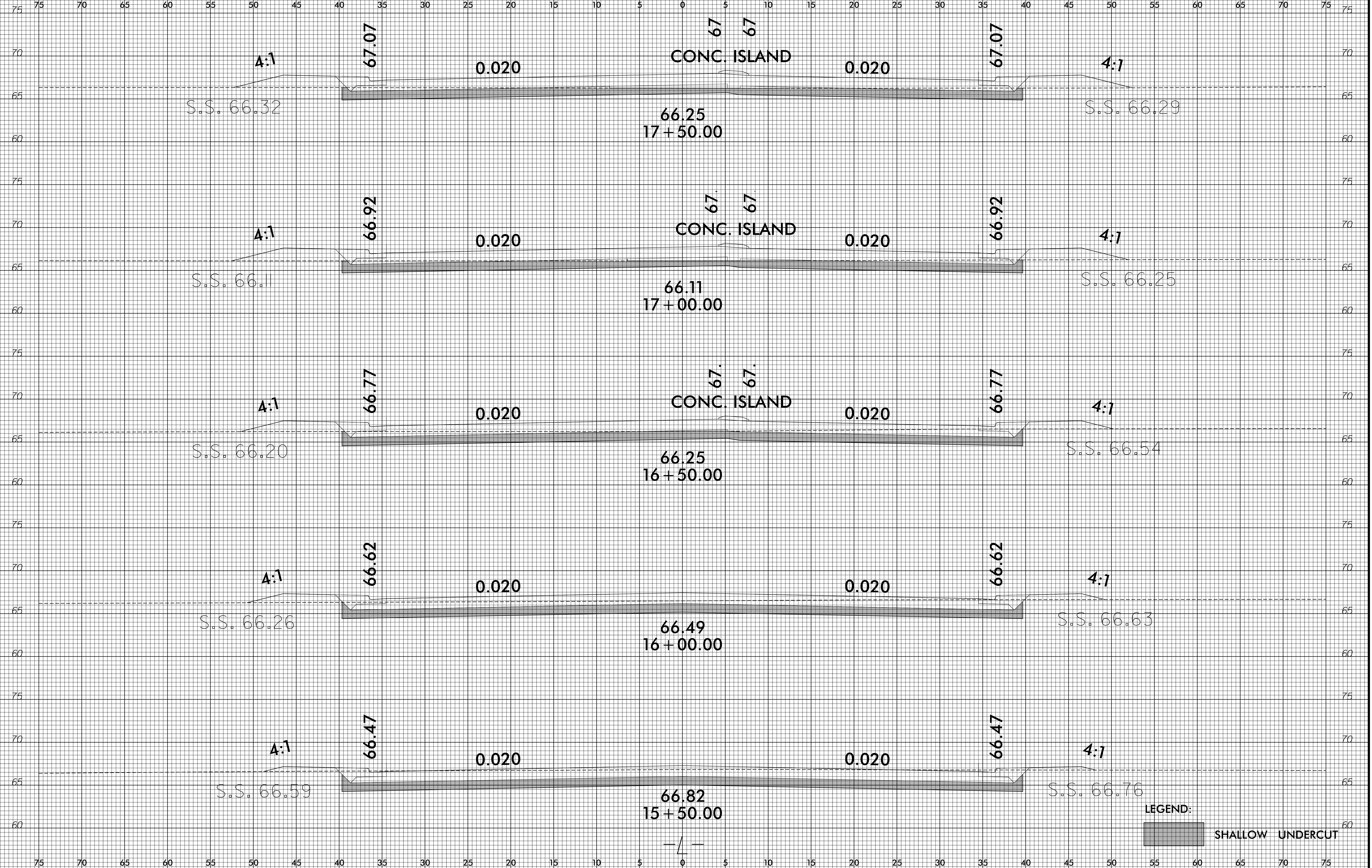
SHALLOW UNDERCUT

VERTICAL CURVE DATA



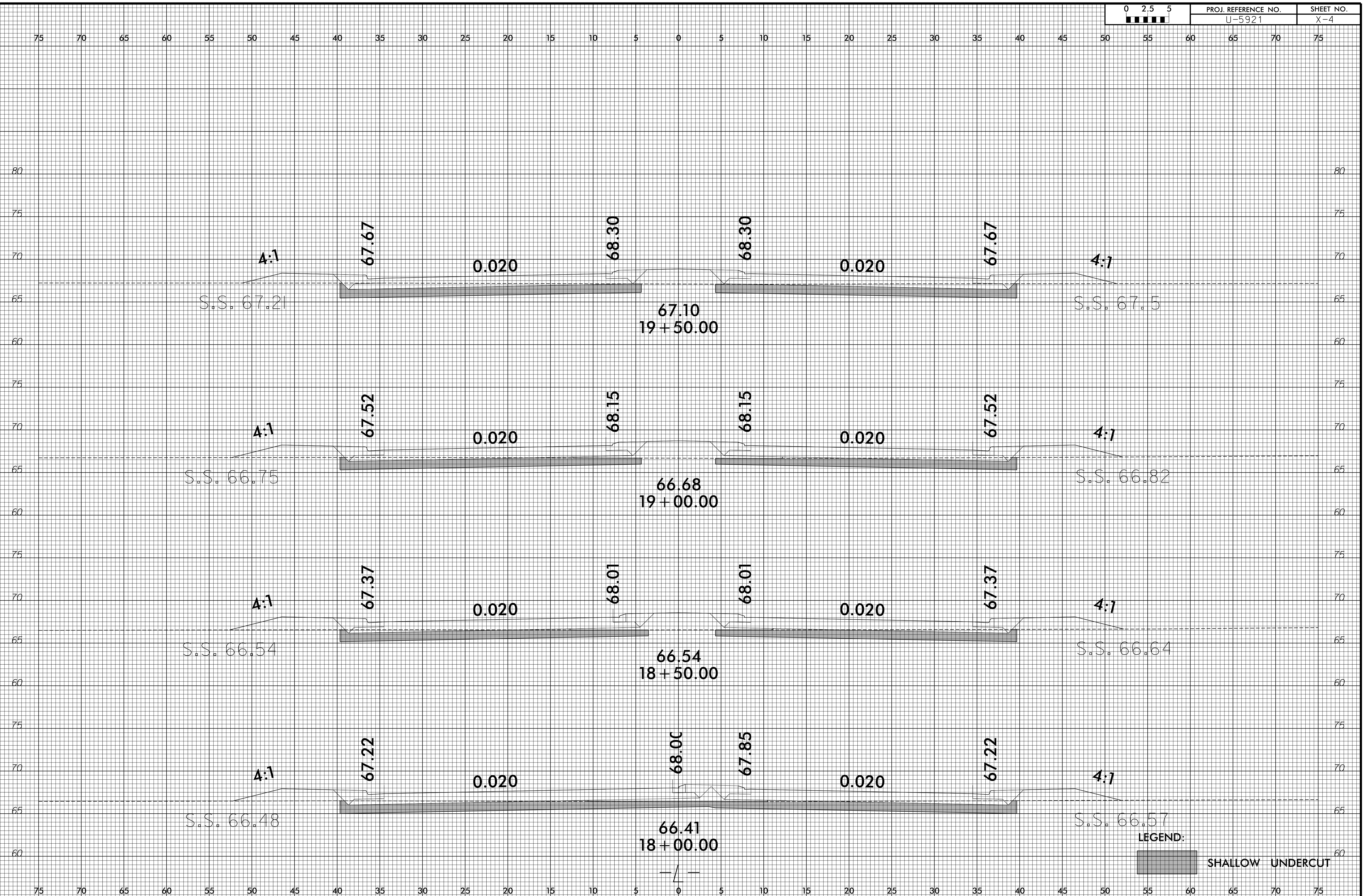
6/23/16

0 2.5 5	PROJ. REFERENCE NO. U-5921	SHEET NO. X-3
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6/23/16

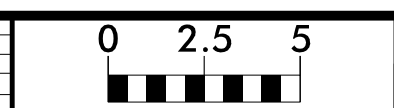
6/23/16



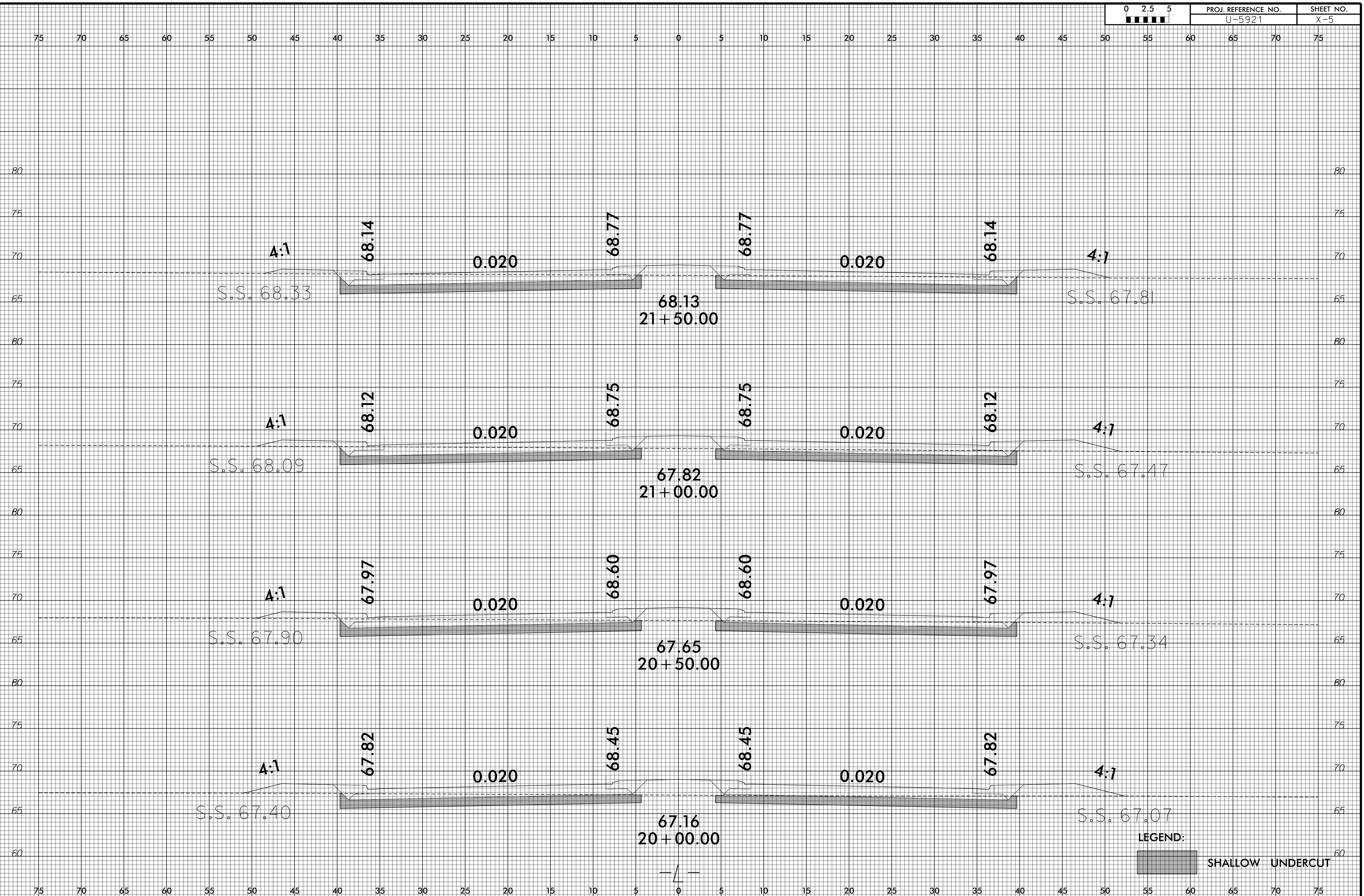
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 SHALLOW UNDERCUT

SECTION CUT TIME

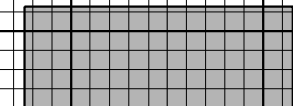
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PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-5



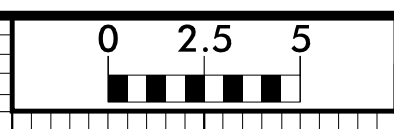
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SHALLOW UNDERCUT

SECTION CUTLINE

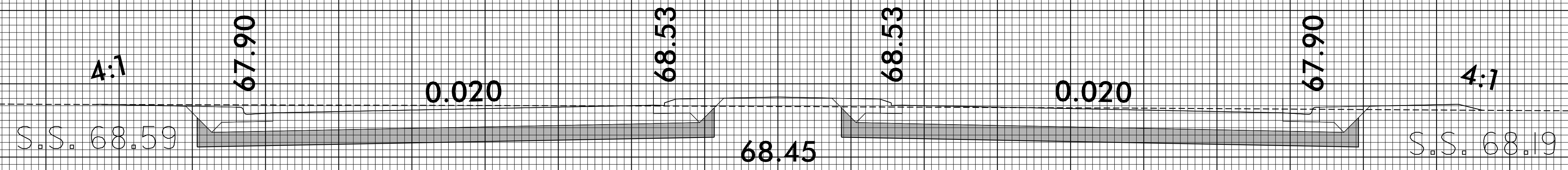
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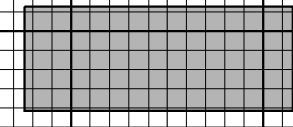
PROJ. REFERENCE NO.
U-5921

SHEET NO.
X-6

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LEGEND:

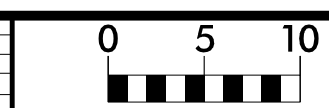


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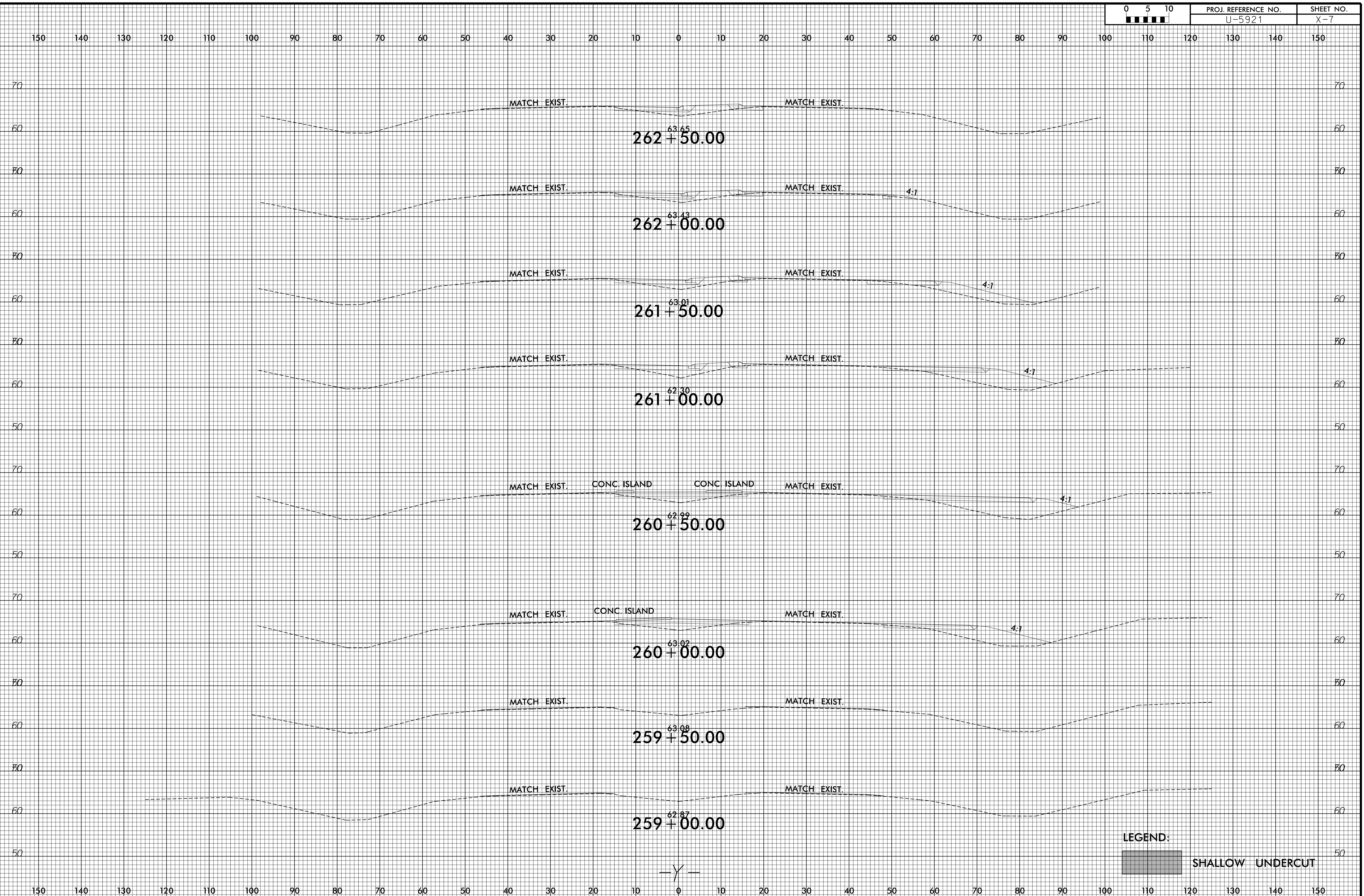
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6/23/16
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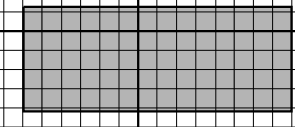
6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-7



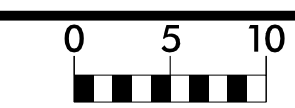
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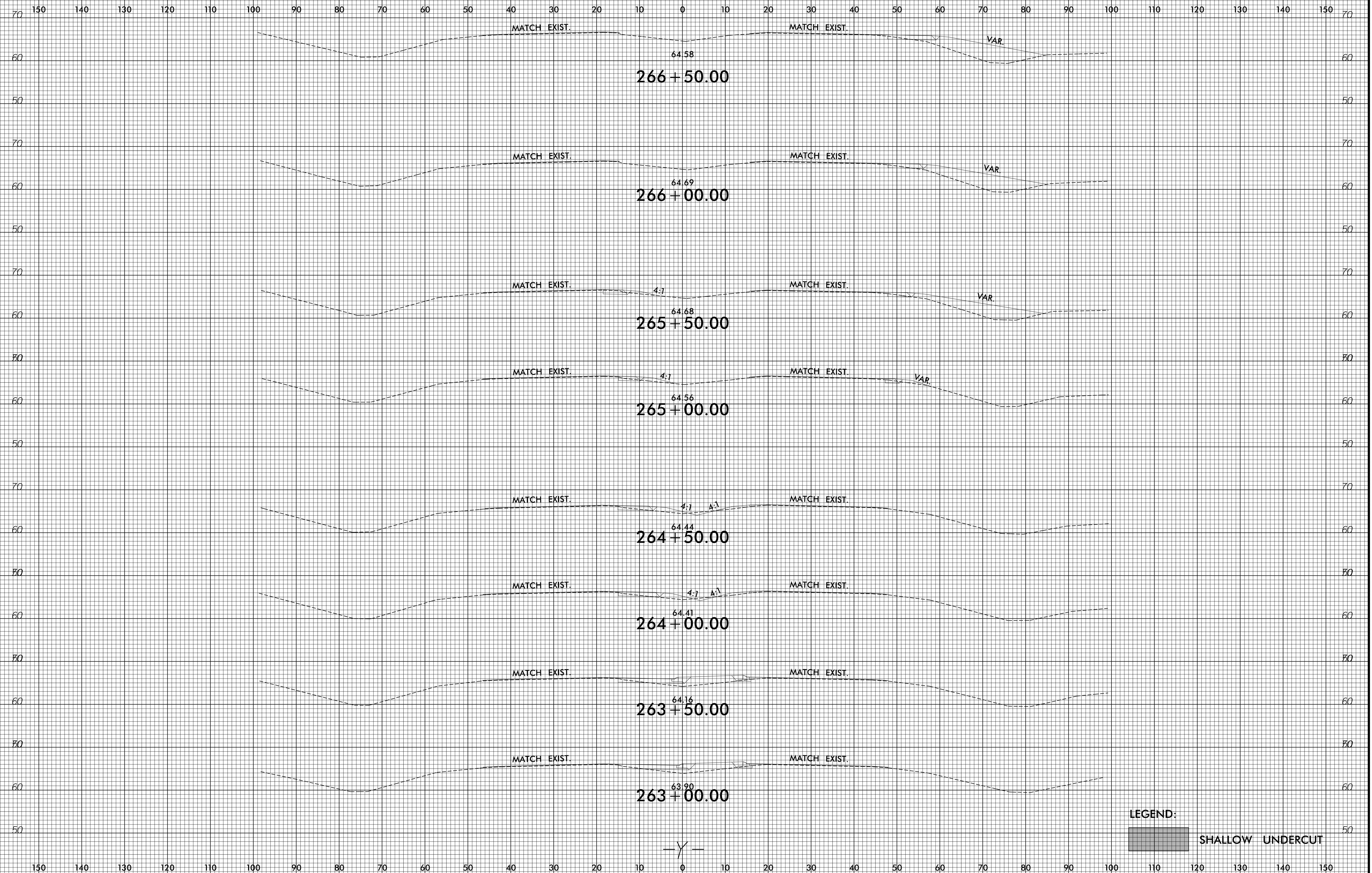
SHALLOW UNDERCUT

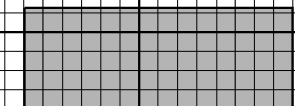
6/23/16

6/23/16



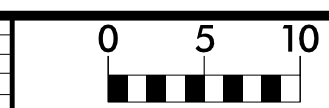
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U-5921	X-8



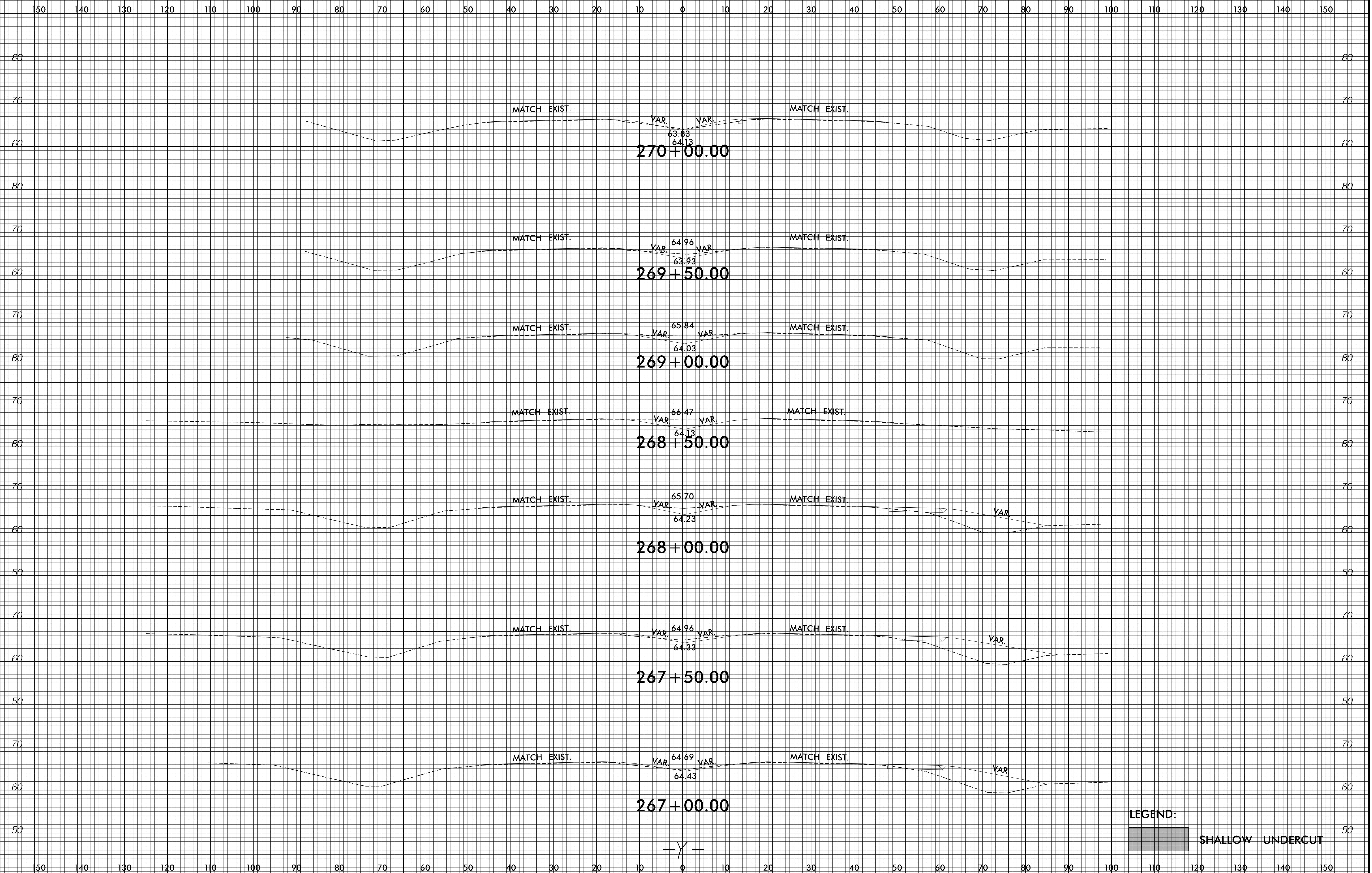
LEGEND:
 SHALLOW UNDERCUT

6/23/16

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-9

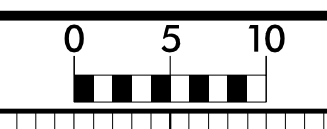


SECTION CUTLINE

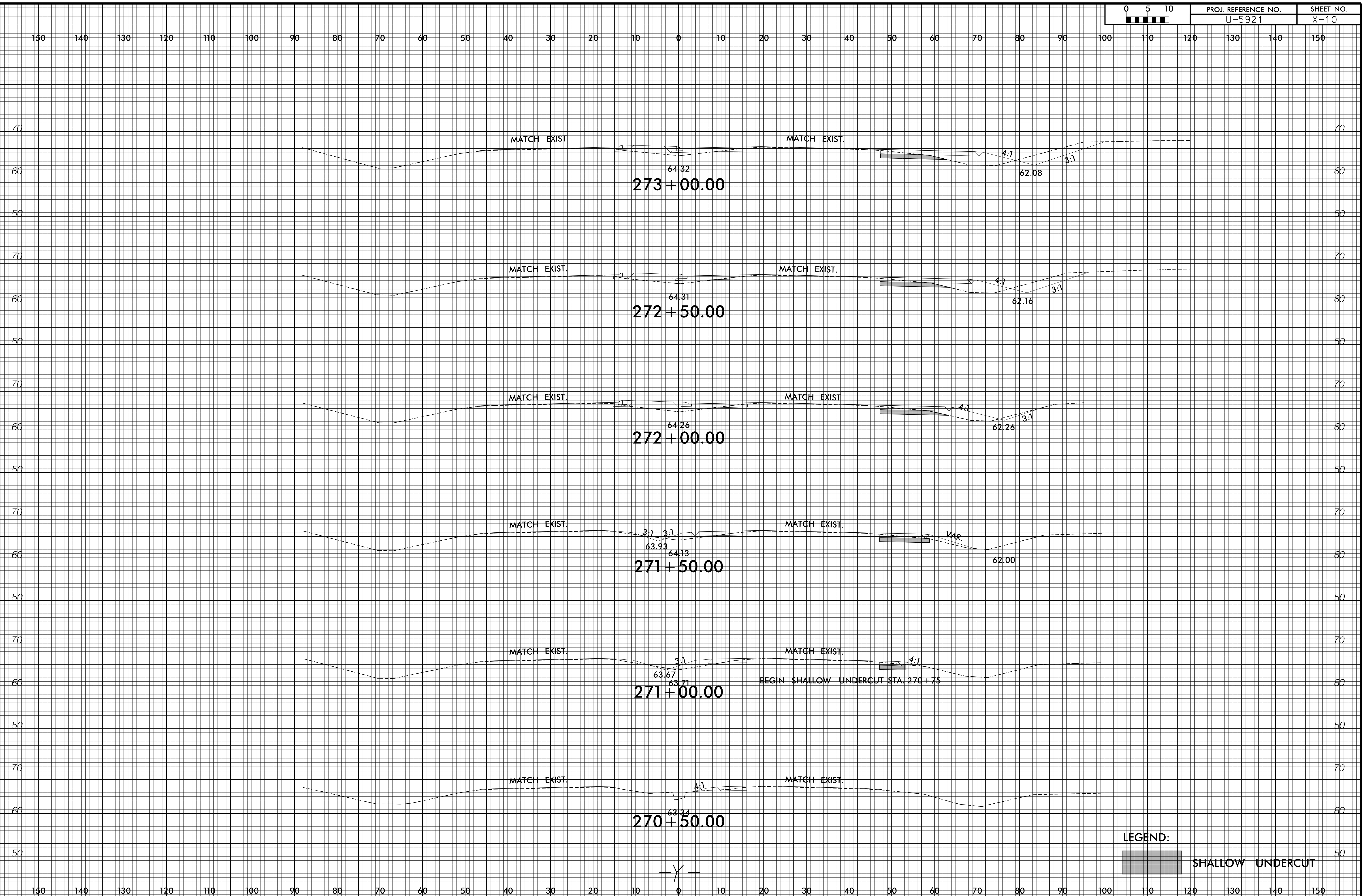
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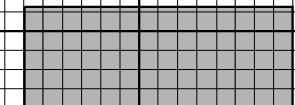
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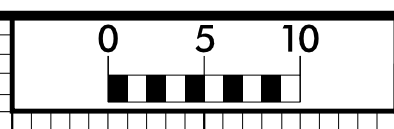
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U-5921	X-10



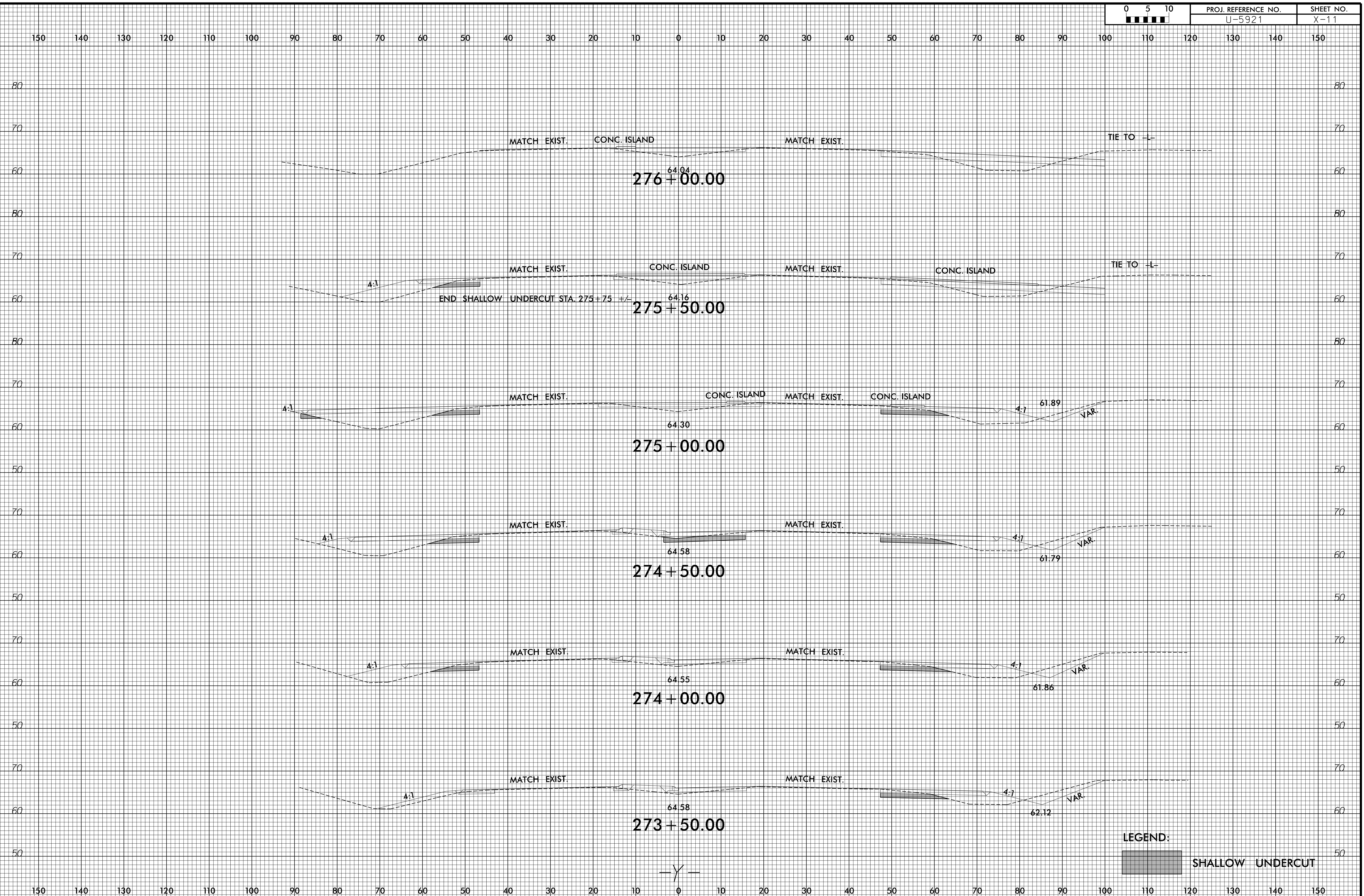
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PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-11

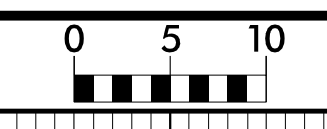


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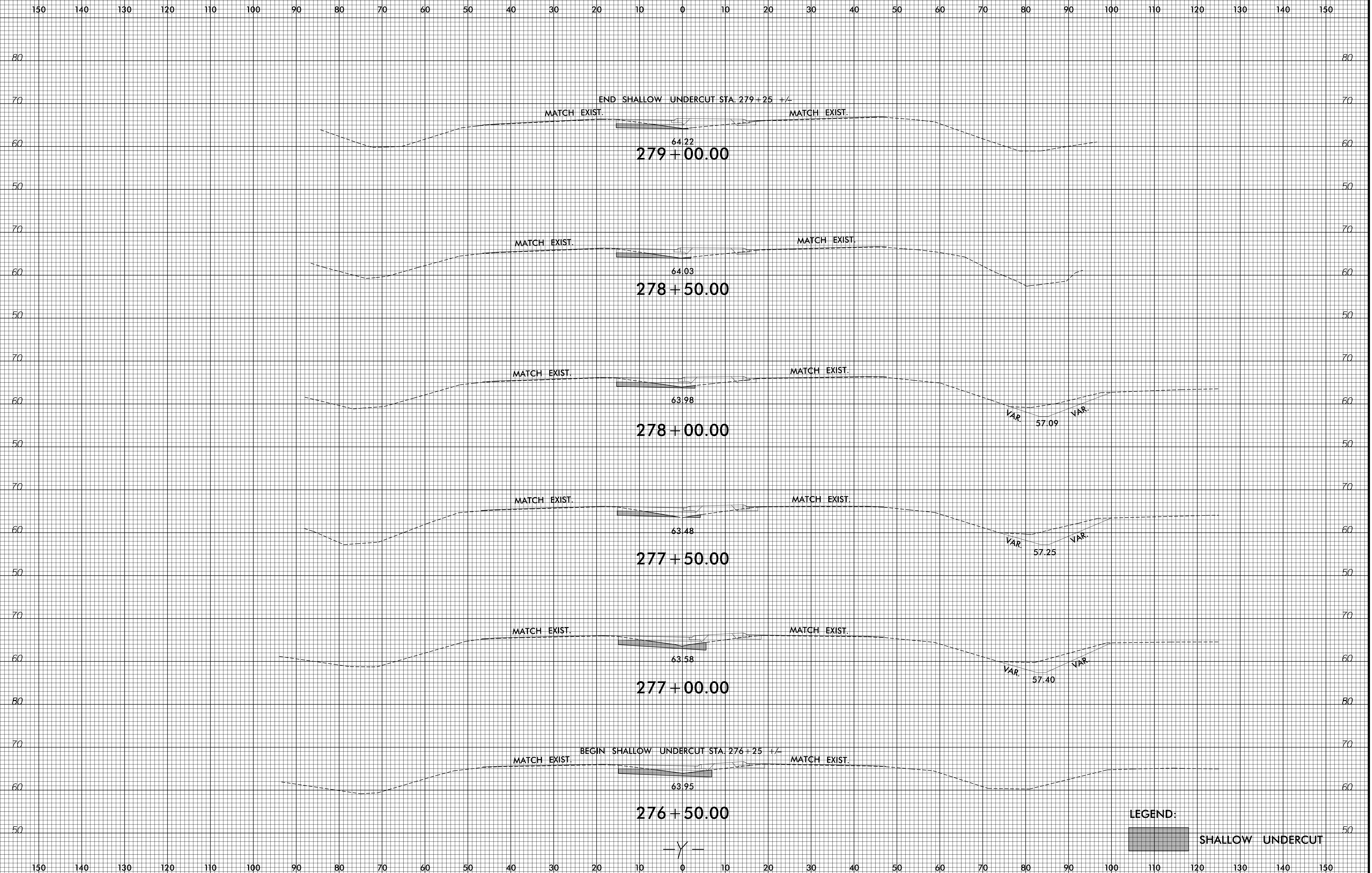
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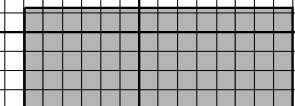
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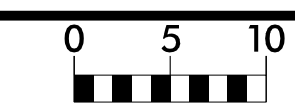
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U-5921	X-12



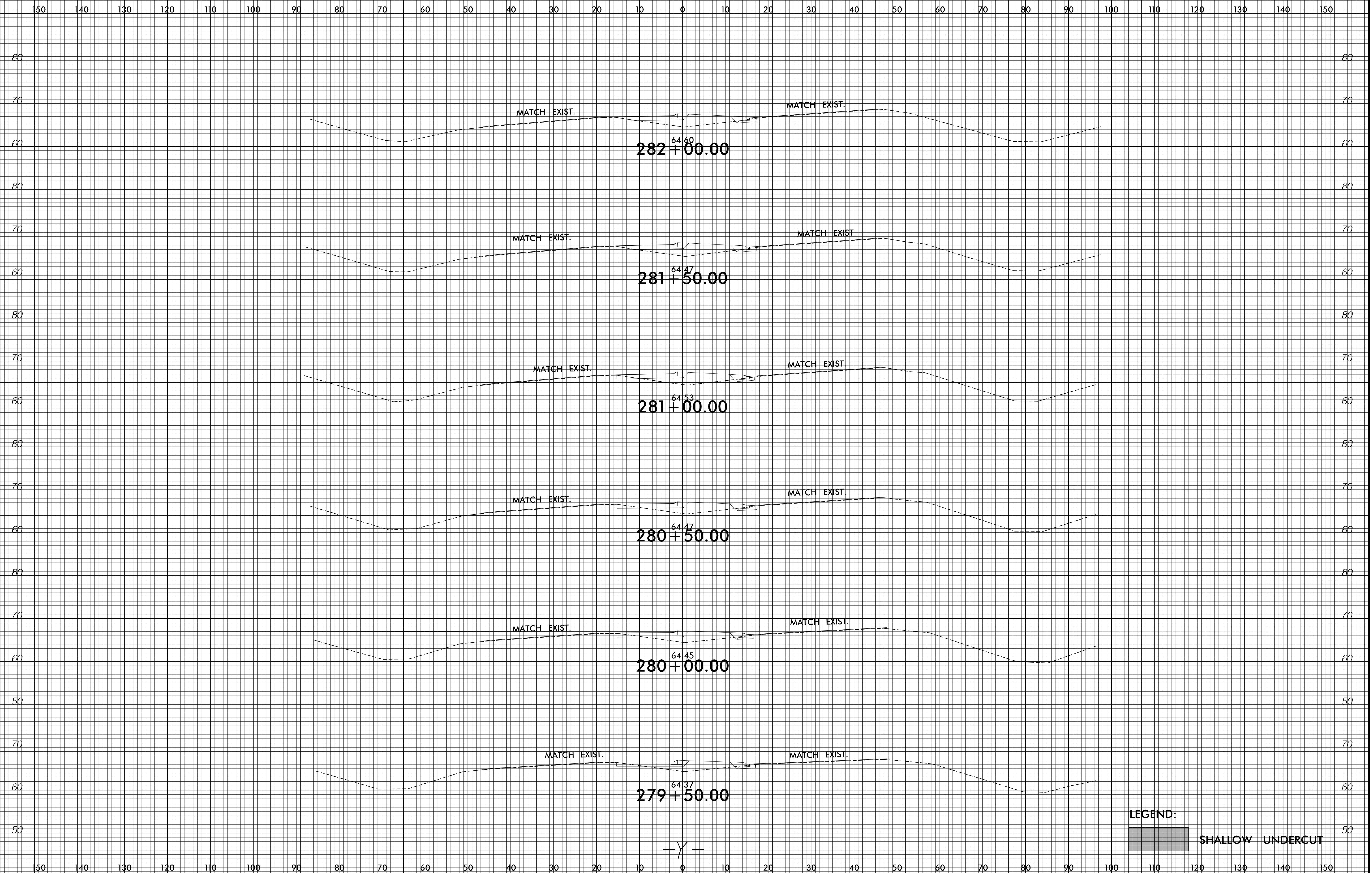
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PROJ. REFERENCE NO.	SHEET NO.
U-5921	X-13



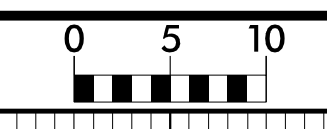
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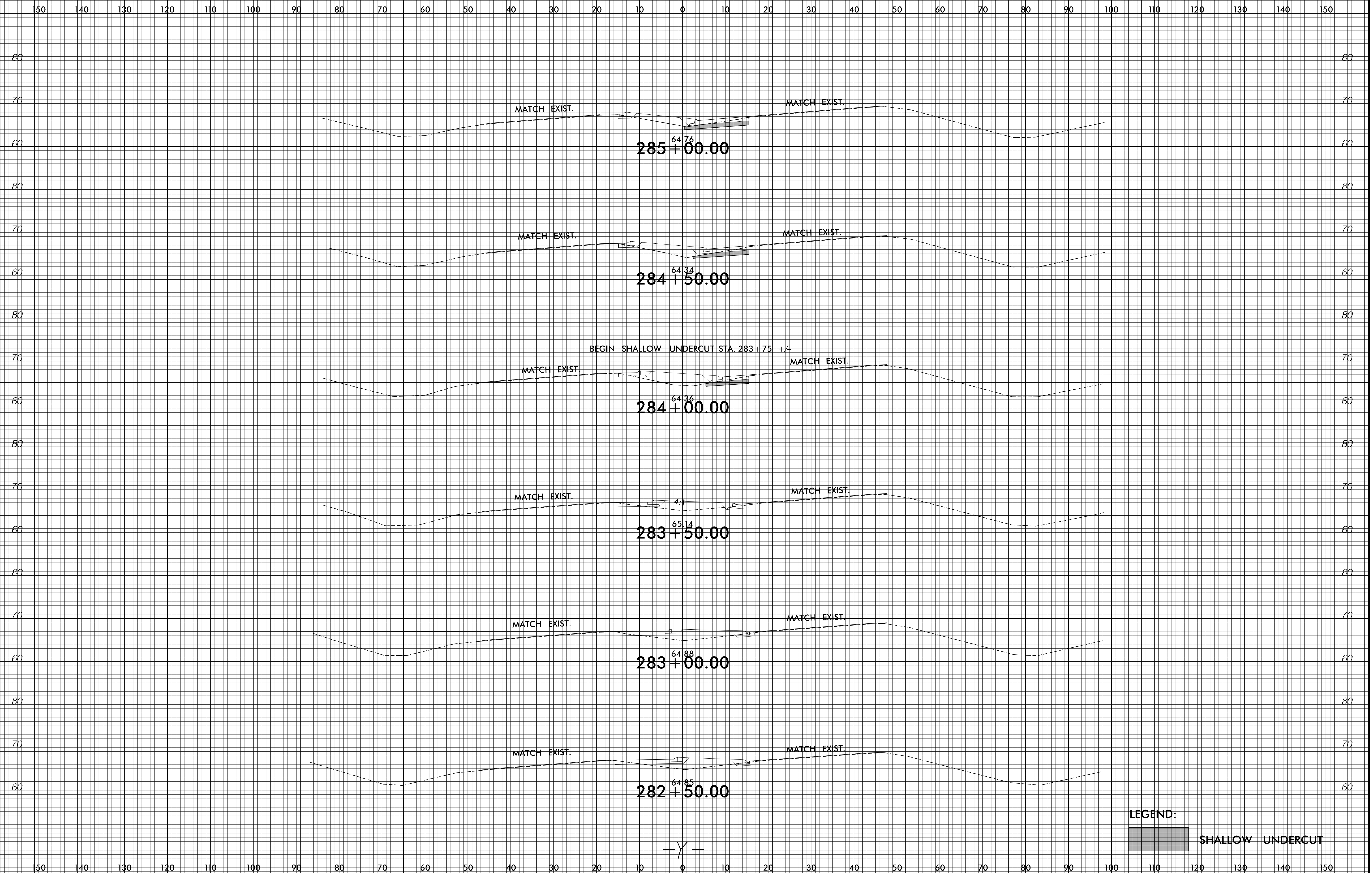
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PROJ. REFERENCE NO.	SHEET NO.
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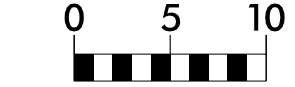


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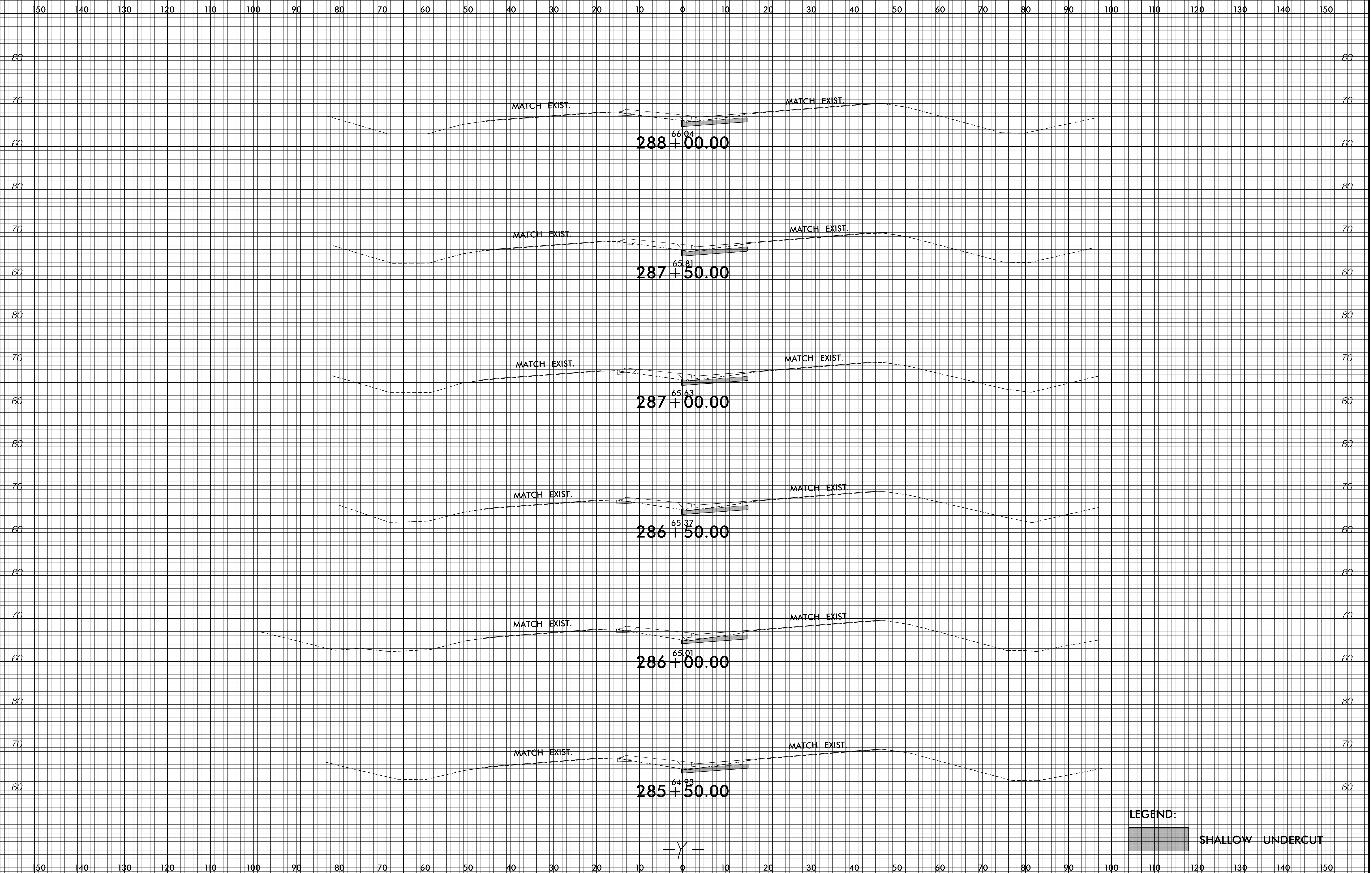
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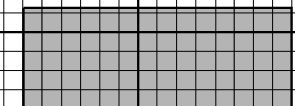
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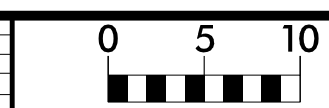
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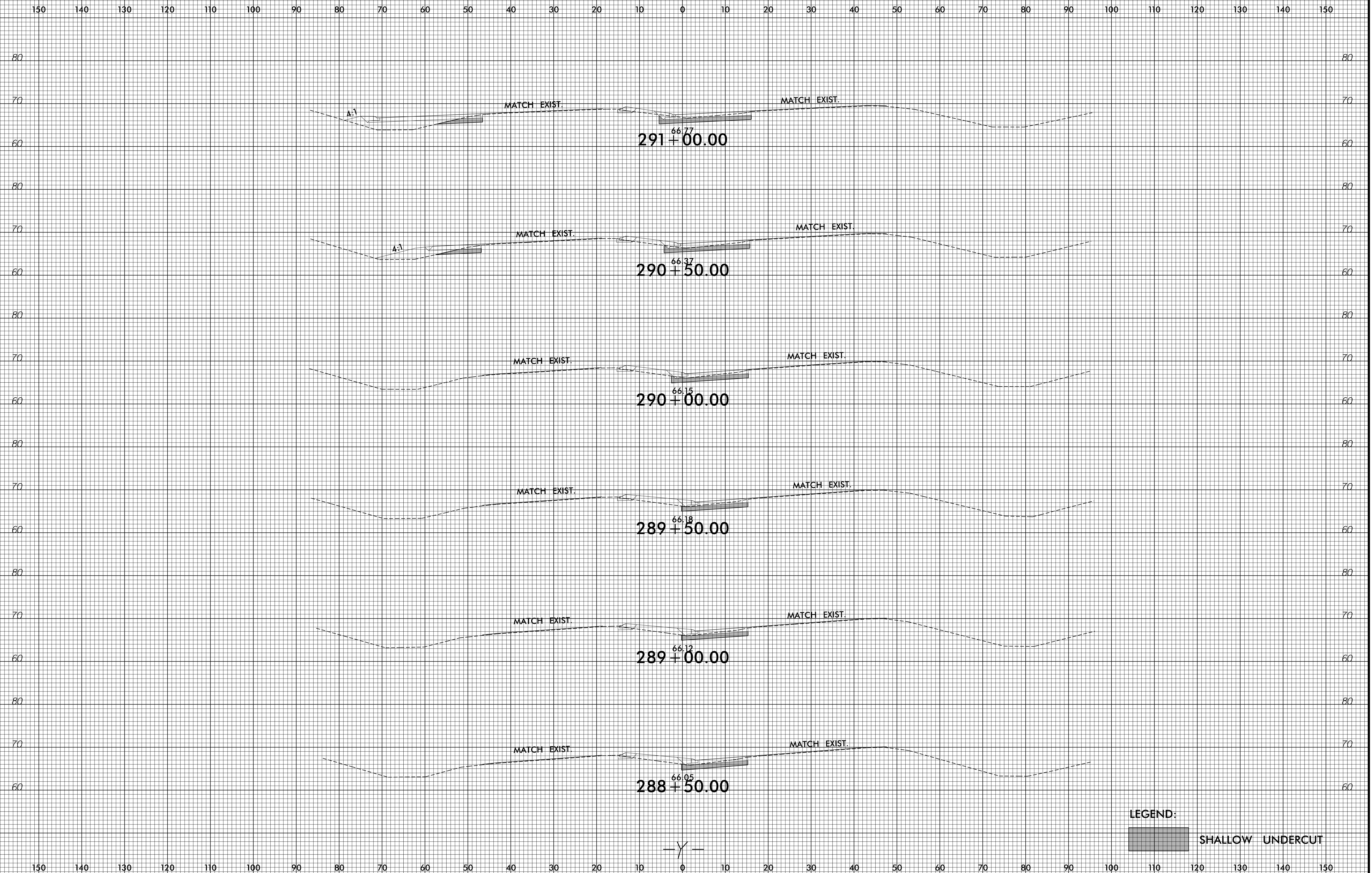
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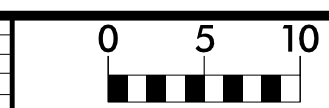
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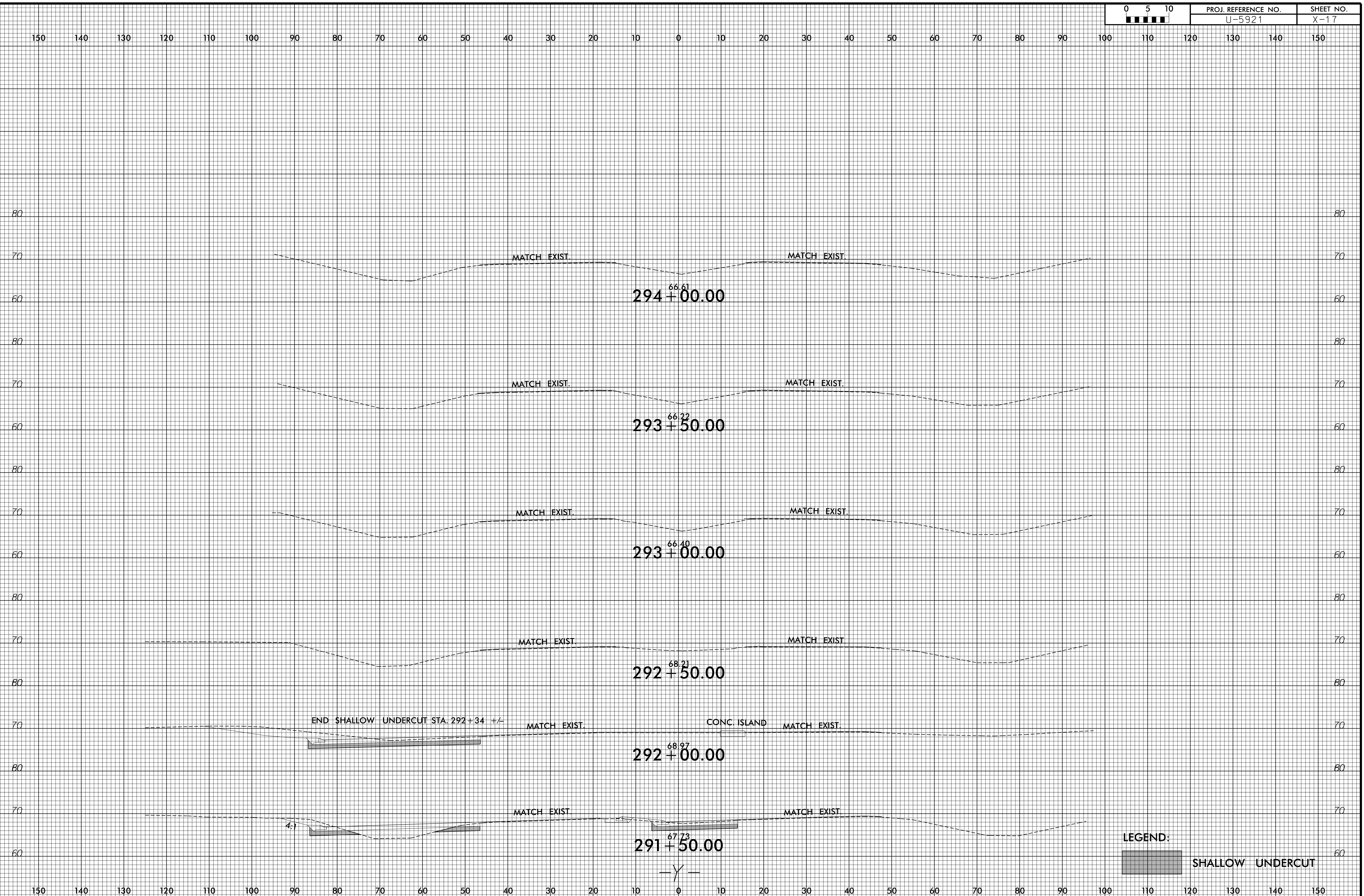
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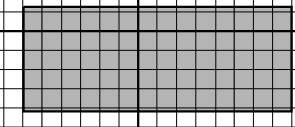
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PROJ. REFERENCE NO.	SHEET NO.
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