

09/08/2019

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 1/30/2020
 TIME: 12:43:53 PM
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or_Coll_M_NCDOT-U2714_US117.cad

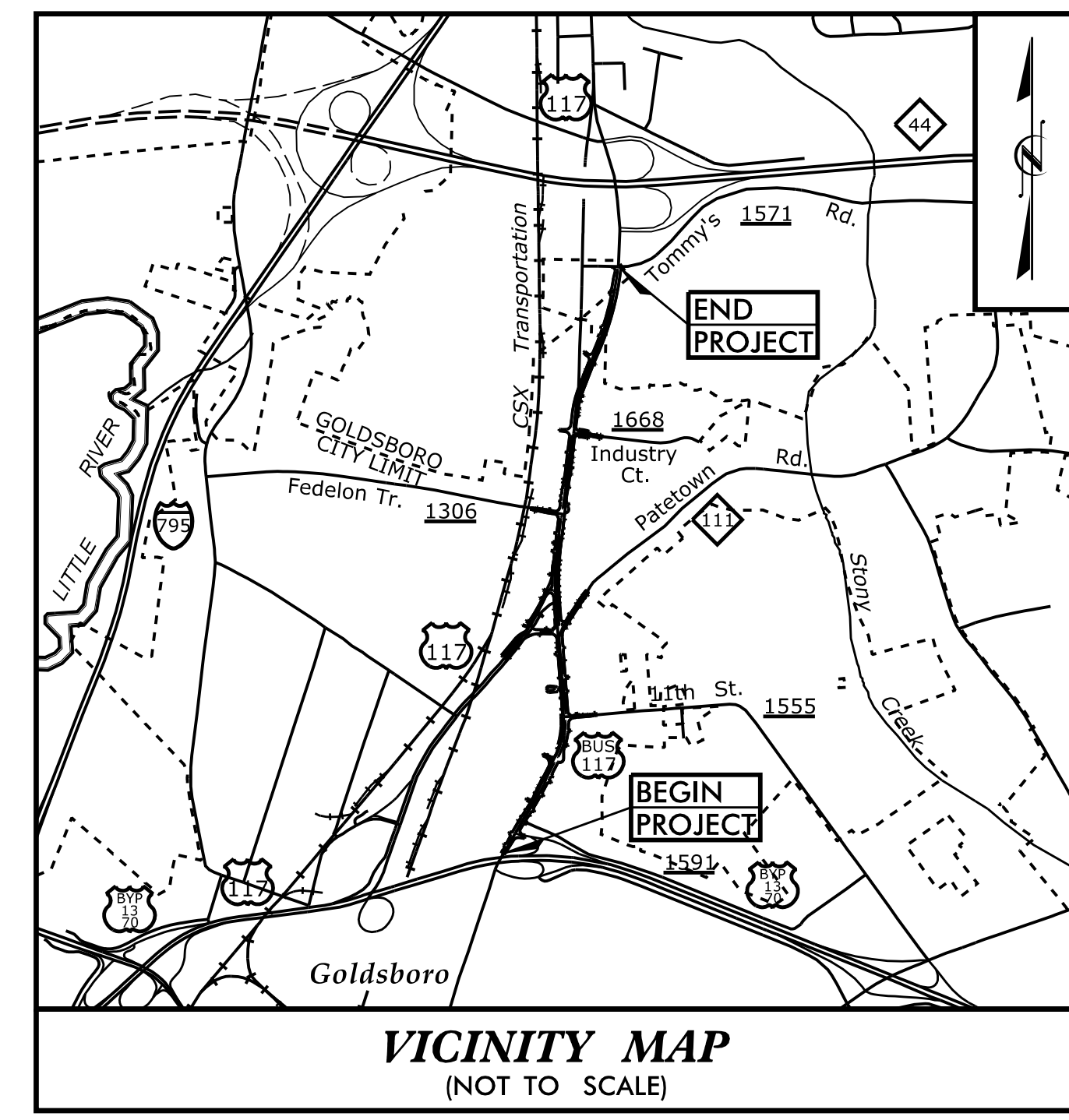
CONTRACT: C204131

TIP PROJECT: U-2714

See Sheet 1-A For Index of Sheets

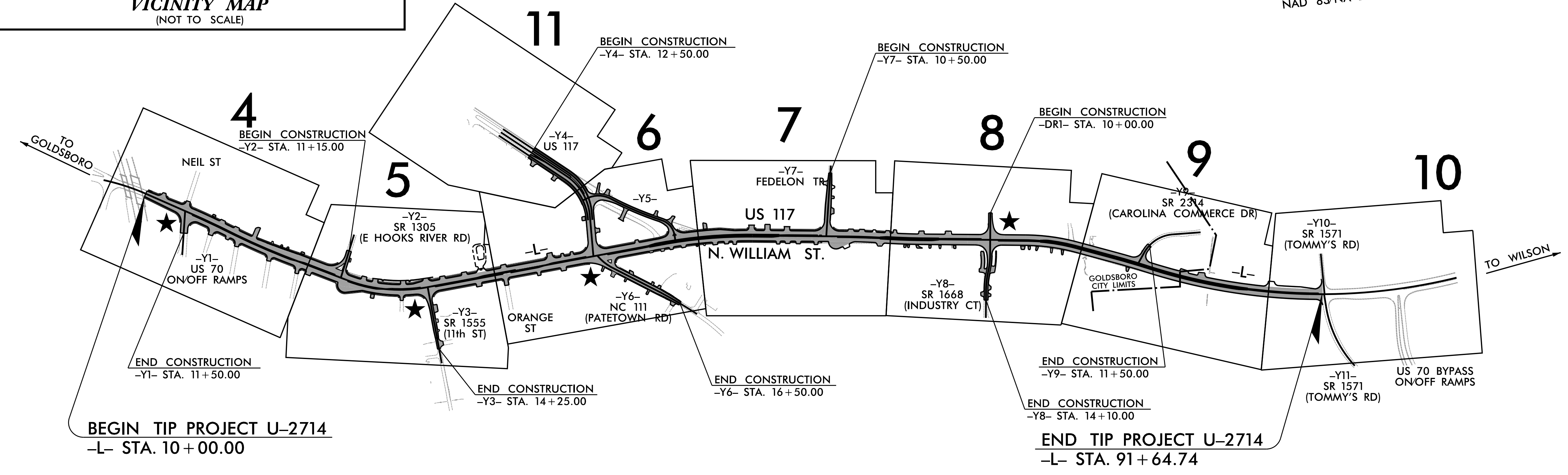
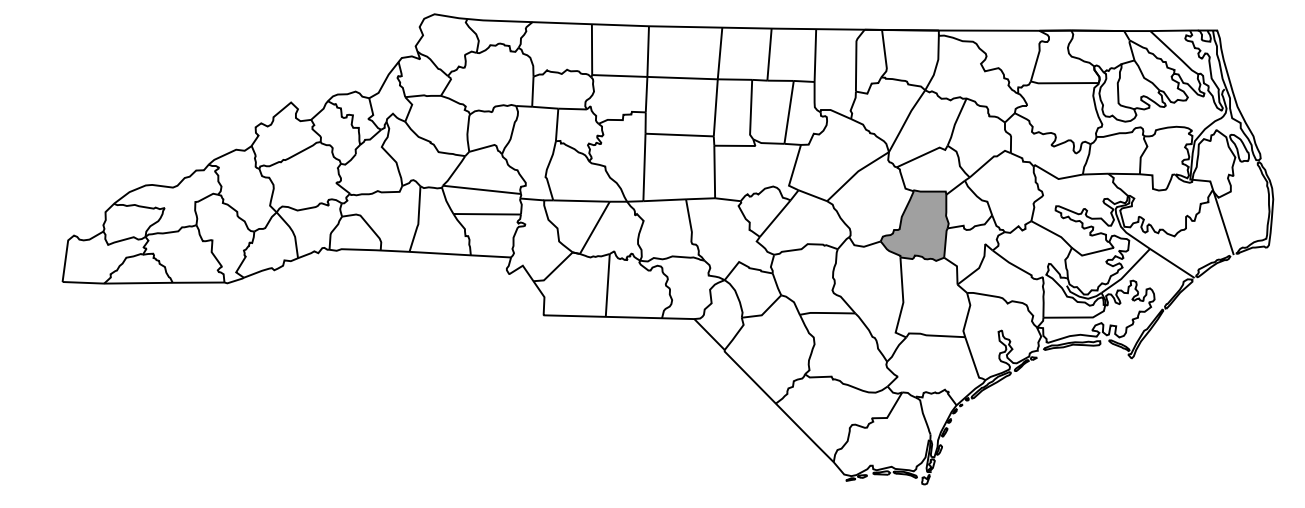
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
WAYNE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2714	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38979.1.2	N/A	PE	
38979.2.1	N/A	ROW & UTIL.	
38979.3.1	N/A	CONSTR.	



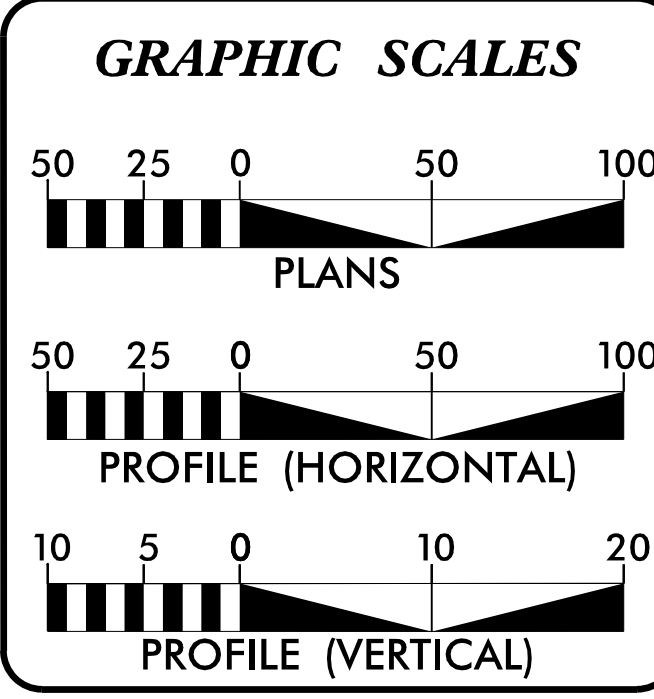
LOCATION: US 117 (N. WILLIAM ST) FROM NORTH OF US 70 TO SR 1571 (TOMMY'S RD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CULVERT AND SIGNALS



★ PROPOSED TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2018 =	17,390
ADT 2038 =	27,310
K =	9 %
D =	60 %
T =	4 % *
V =	40 MPH
(* TTST = 1% + DUAL 3%)	
FUNC CLASS =	MINOR ARTERIAL (URBAN)
	STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-2714 =	1.546 MILES
TOTAL LENGTH TIP PROJECT U-2714 =	1.546 MILES

Prepared by the Office of:
HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 FEBRUARY 17, 2017

LETTING DATE:
 MARCH 17, 2020

CALVIN W. MOODY, III, P.E. PROJECT ENGINEER
CASEY E. HARRIS, P.E. PROJECT DESIGN ENGINEER
MATT CLARKE, P.E. NCDOT CONTACT

HYDRAULICS ENGINEER

1/30/2020 P.E.

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

1/30/2020 P.E.

SIGNATURE: _____



8/17/99

PLOT DRIVER: NCDOT_color_eng_50.plt DATE: 1/3/2020 TIME: 4:59:32 PM
USER: CHARRIS
FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_On-Call_M_NCDOT-U2714-US117.cad\6.0_CAD_BITMAPS\6.2_Work_In_Progress\U-2714_NCDOT_File_Structure_Roadway\Proj\U2714_RDY_TSH.dgn

REVISIONS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-5	SURVEY CONTROL SHEETS
2A-1 THRU 2A-6	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAIL
2B-1 THRU 2B-7	INTERSECTION DETAILS
2C-1	CATCH BASIN IN 2'-9" CURB AND GUTTER DETAIL
2C-2	GUARDRAIL INSTALLATION DETAIL
2C-3	MEDIAN OR TURN LANE CURB RAMP DETAILS
2D-1	HYDRAULICS DETAILS
2G-1	TEMPORARY SHORING DETAIL SHEET
3B-1 THRU 3B-2	EARTHWORK, PAVEMENT REMOVAL, AND GUARDRAIL SUMMARY
3D-1 THRU 3D-8	DRAINAGE SUMMARY
3G-1	GEO TECHNICAL SUMMARY
3P-1 THRU 3P-2	PARCEL INDEX SHEETS
4 THRU 11	PLAN SHEETS
RW-4 THRU RW-11	RIGHT-OF-WAY PLAN SHEETS
12 THRU 20	PROFILE SHEETS
TMP-1 THRU TMP-33	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-9	PAVEMENT MARKING PLANS
EC-1 THRU EC-19	EROSION CONTROL PLANS
RF-1	REFORESTATION DETAIL SHEET
SIGN-1 THRU SIGN-13A	SIGNING PLANS
SIG-1.0 THRU SCP-14	SIGNAL PLANS
UC-1 THRU UC-24	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-9	UTILITIES BY OTHERS PLANS
X-0	CROSS-SECTION INDEX SHEET
X-0A THRU X-0C	CROSS-SECTION SUMMARY
X-1 THRU X-42	CROSS-SECTIONS
C-1 THRU C-7	CULVERT PLANS

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
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
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
850.11	Guide for Berm Drainage Outlet - 24" and 30" Pipe
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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 III.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII 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 RADII NOTED ON PLANS.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

UTILITIES:

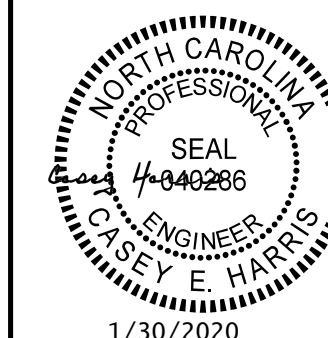
UTILITY OWNERS ON THIS PROJECT ARE: DUKE ENERGY-PROGRESS, PIEDMONT NATURAL GAS, AT&T, CHARTER COMMUNICATIONS, CITY OF GOLDSBORO AND TOWN OF FREEMONT.

RIGHT-OF-WAY MARKERS:

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

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.

PROJECT REFERENCE NO. U-2714	SHEET NO. 1-A
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

GENERAL NOTES

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO. U-2714	SHEET NO. 1-B
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	⑩②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
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	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	~~~~~
Hydro, Pool or Reservoir	□
Jurisdictional Stream	--- JS ---
Buffer Zone 1	--- BZ 1 ---
Buffer Zone 2	--- BZ 2 ---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	--- WLB ---
Proposed Lateral, Tail, Head Ditch	▬
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

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

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale

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

Hedge	~~~~~
Woods Line	~~~~~
Orchard	☼ ☼ ☼ ☼
Vineyard	□ Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

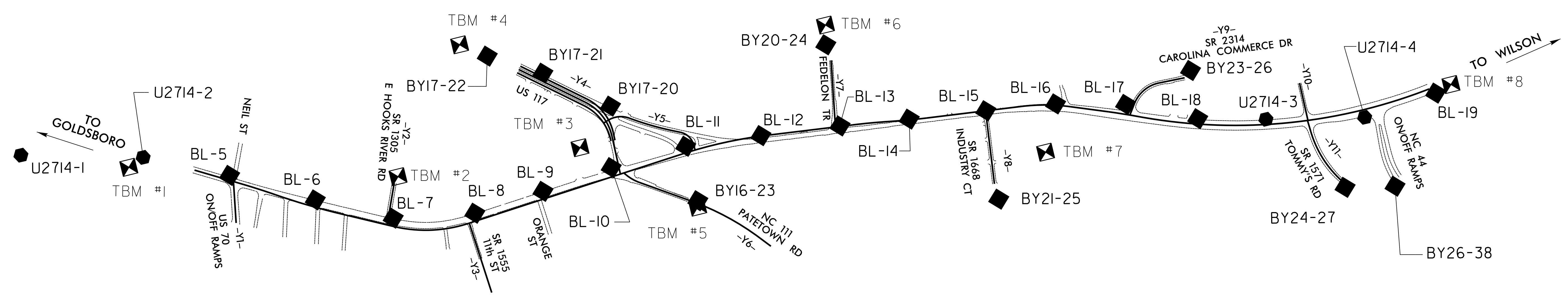
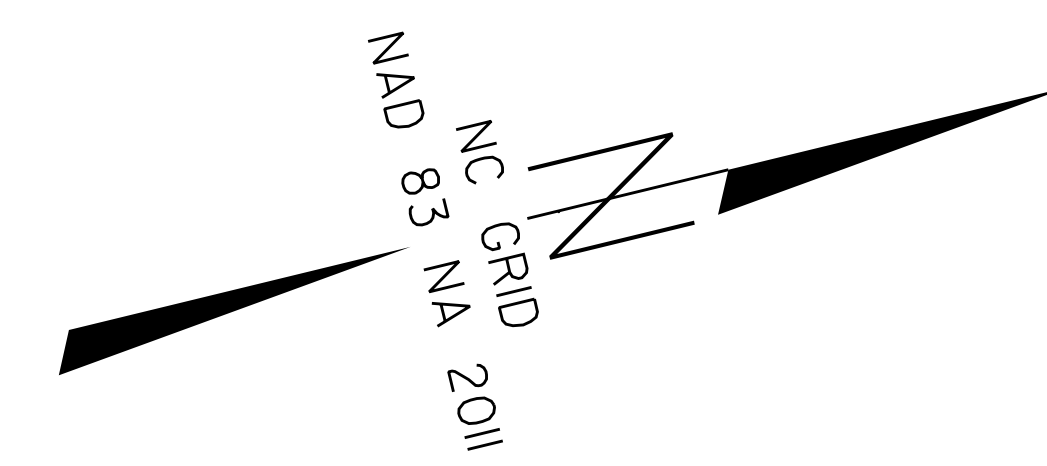
Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

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

SURVEY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-2714	1C-1
Location and Surveys	



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U2714-3"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 609982.202(ft) EASTING: 2303750.060(ft)
 ELEVATION: 127.072(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998761500

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U2714-3" TO -L- STATION 10+00.00 IS
 S10°57'31.47"W 7,704.79'

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

NOTES:

1. 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:
 U2714_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.

NOTE: DRAWING NOT TO SCALE

6/2/09 1/3/2020 I:\Projects\2020\1004\1004.dgn

SURVEY CONTROL SHEET

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+00.00	-30.10	602432.9549	2302259.2909
L	10+98.54	-45.00	602525.7514	2302295.6399
L	11+33.31	-50.00	602558.3679	2302308.6892
L	12+24.56	-50.72	602637.7581	2302353.6762
L	12+59.28	-65.99	602675.4646	2302357.8019
L	13+09.52	-66.27	602719.1166	2302382.6627
L	13+65.36	-50.00	602759.3515	2302424.6715
L	13+70.93	90.48	602693.8663	2302549.0825
L	13+98.00	50.00	602737.2903	2302527.5244
L	14+71.44	50.00	602799.6897	2302564.7533
L	15+63.02	50.00	602876.6946	2302612.5211
L	16+08.21	-50.00	602968.6813	2302552.6809
L	16+08.21	50.00	602914.3564	2302636.6380
L	16+65.00	50.00	602962.7190	2302667.5245
L	16+88.29	72.29	602970.8660	2302698.9423
L	17+27.22	65.00	603008.2939	2302713.4948
L	17+45.00	50.00	603031.4650	2302710.0534
L	17+63.26	-50.00	603098.8211	2302633.9190
L	18+95.00	50.00	603162.2448	2302786.6624
L	19+15.24	65.00	603172.7494	2302809.7736
L	19+66.13	65.00	603217.9048	2302834.7127
L	19+75.00	50.00	603232.9607	2302825.8284
L	20+82.85	50.00	603329.3164	2302876.7420
L	21+05.00	50.00	603349.0148	2302886.8673
L	21+25.47	65.00	603360.3611	2302909.5651
L	21+66.05	65.00	603396.4536	2302928.1172
L	21+80.00	50.00	603415.7187	2302921.1542
L	23+15.00	-60.00	603586.0731	2302885.0381
L	24+14.00	50.00	603623.8349	2303028.1292
L	24+45.00	100.00	603628.5479	2303086.7704
L	24+94.77	-62.58	603746.4420	2302964.4817
L	25+00.00	100.00	603679.1843	2303112.5890
L	26+05.00	50.00	603802.5525	2303111.0161
L	29+54.34	50.00	604161.8091	2303175.1778
L	31+15.49	50.00	604326.5189	2303165.8963
L	35+35.00	50.00	604744.8405	2303134.3123
L	35+47.34	65.00	604758.2743	2303148.3407
L	35+87.34	65.00	604798.1621	2303145.3291
L	36+00.00	50.00	604809.6561	2303129.4186
L	40+75.00	-55.53	605275.3629	2302988.4277
L	40+93.74	50.00	605301.9980	2303092.2459
L	42+81.17	-67.18	605480.0693	2302961.2848
L	44+00.94	50.00	605608.3264	2303069.1175
L	46+30.00	50.00	605836.7328	2303051.8724
L	46+81.78	50.00	605887.8099	2303048.2228
L	51+03.70	-56.86	606310.0486	2302942.2520
L	51+50.00	-50.00	606356.4745	2302952.5855
L	52+32.68	-58.11	606440.9305	2302952.4228
L	52+87.10	-58.06	606495.5831	2302958.7528
L	56+95.00	-50.00	606899.7299	2303014.5620
L	57+70.00	60.18	606961.2999	2303132.7737
L	58+00.00	100.00	606986.4263	2303175.8343
L	58+50.00	100.00	607036.0817	2303181.6943
L	58+67.00	-50.00	607070.5446	2303034.7204
L	58+88.35	-50.00	607091.7500	2303037.2229
L	59+36.00	59.95	607125.5604	2303152.1586
L	61+55.88	-50.00	607359.1856	2303076.4151
L	62+10.08	50.00	607395.9223	2303184.0649
L	64+23.40	-50.00	607621.0728	2303114.7941
L	64+23.40	50.00	607609.3529	2303214.1049
L	66+40.25	-50.00	607836.4336	2303140.2055
L	67+78.06	50.00	607961.5718	2303255.6714
L	68+20.49	77.83	608000.4426	2303288.2845
L	68+40.00	-70.00	608037.1465	2303143.7575
L	69+20.00	-70.00	608116.5951	2303153.1335
L	69+56.62	50.00	608138.9037	2303276.5989
L	71+13.92	50.00	608295.1164	2303295.0341
L	71+13.92	-50.00	608306.8364	2303195.7233
L	71+26.34	50.00	608306.9887	2303296.4897
L	73+92.80	-50.00	608588.4880	2303258.4846

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+15.00	30.00	603716.5443	2302807.9681
Y2	11+15.00	25.16	603720.9858	2302809.8864
Y2	11+15.00	-24.84	603766.8874	2302829.7115
Y2	11+15.00	-30.00	603771.6263	2302831.7583
Y2	11+80.00	30.00	603690.7716	2302867.6403
Y2	12+10.00	-30.00	603733.9586	2302918.9714

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	10+85.16	-40.00	604291.7370	2303203.8697
Y3	10+95.71	40.00	604212.7235	2303220.2454
Y3	13+50.00	40.00	604231.3318	2303473.8514
Y3	13+50.00	31.50	604239.8133	2303473.2294
Y3	13+50.00	-28.51	604299.6588	2303468.8400
Y3	13+50.00	-40.00	604311.1173	2303467.9971

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	20+19.26	40.86	605344.7625	2302922.0705
Y4	20+27.69	-40.00	605425.4282	2302932.1692

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4LT	18+61.45	-25.25	605429.2776	2302746.3985

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4RT	15+95.63	45.00	605254.2885	2302567.9869
Y4RT	18+30.00	45.00	605328.4960	2302755.2916
Y4RT	18+30.00	27.97	605345.5041	2302754.4114

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	10+72.42	46.54	605423.0273	2303122.7870
Y6	12+37.24	-40.00	605611.6768	2303151.3744
Y6	14+67.55	40.00	605759.8910	2303344.9584
Y6	14+67.55	-40.00	605803.9364	2303278.1752
Y6	15+77.07	40.00	605848.8133	2303406.1428
Y6	16+59.44	-40.00	605962.6079	2303390.8385
Y6	16+59.61	-30.00	605956.6768	2303398.8915

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	10+50.00	40.00	606998.7033	2302642.2300
Y7	10+50.00	30.45	607008.1172	2302643.8656
Y7	10+50.00	-29.53	607067.2030	2302654.1314
Y7	10+50.00	-40.00	607077.5225	2302655.9243
Y7	11+62.26	-35.00	607053.3792	2302765.6740
Y7	12+59.05	-35.00	607036.8104	2302861.0375
Y7	13+70.00	-40.00	607022.7451	2302971.2011
Y7	14+00.00	40.00	606938.7905	2302987.0640

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	10+91.81	-40.00	608093.1539	2303313.2917
Y8	11+03.14	-40.00	608091.8283	2303324.5466
Y8	12+20.63	-40.00	608063.8813	2303447.1912
Y8	12+36.70	40.00	607982.8568	2303437.5939
Y8	13+38.11	40.00	607960.2729	2303543.8482
Y8	13+38.11	-40.00	608039.7237	2303553.2060
Y8	13+55.00	40.00	607958.2973	2303560.6214
Y8	13+55.00	30.00	607968.2287	2303561.7911
Y8	14+10.00	-30.00	608021.3833	2303623.4319
Y8	14+10.00	-40.00	608031.3146	2303624.6016

NOTE: DRAWING NOT TO SCALE

SURVEY CONTROL SHEET

L			
TYPE	STATION	NORTH	EAST
POT	7+00.00	602144.7031	2302162.6808
PC	7+04.10	602148.5951	2302163.9856
PT	10+00.00	602417.9096	2302285.3626
PC	13+65.36	602734.3605	2302467.9780
PRC	16+08.21	602941.5189	2302594.6595
PT	20+82.85	603352.1743	2302832.2727
PC	24+81.60	603706.8183	2303014.5654
PT	30+31.76	604239.2642	2303122.3419
PC	46+45.05	605847.9745	2303000.8813
PT	52+65.96	606467.7841	2303013.9337
PC	58+88.35	607085.8900	2303086.8783
PRC	61+55.88	607350.5514	2303125.6639
PT	64+23.40	607615.2128	2303164.4495
PC	71+13.92	608300.9764	2303245.3787
PT	74+63.65	608639.3282	2303330.0127
PC	77+38.96	608895.7381	2303430.2748
PRC	79+62.39	609101.8420	2303516.4836
PT	100+81.71	611172.8606	2303815.2465

Y6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	605409.0415	2303034.0216
PC	10+23.85	605423.4112	2303053.0521
PT	11+32.97	605502.6040	2303127.3540
PC	14+67.55	605781.9137	2303311.5668
PT	17+59.04	606016.4263	2303484.4582
POT	17+86.08	606037.3243	2303501.6191

Y7			
TYPE	STATION	NORTH	EAST
POT	10+00.00	607046.6718	2302599.8152
POT	14+79.82	606964.5359	2303072.5570

Y8			
TYPE	STATION	NORTH	EAST
POT	10+00.00	608064.1679	2303217.4321
PC	11+03.14	608052.1029	2303319.8677
PRC	12+20.63	608026.0506	2303434.1974
PT	13+38.11	607999.9983	2303548.5271
POT	15+30.57	607977.4863	2303739.6609

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	602670.3599	2302431.0449
POT	12+98.38	602618.3724	2302724.8646

Y9			
TYPE	STATION	NORTH	EAST
POT	10+00.00	609039.3264	2303489.1315
PC	10+88.76	609090.6740	2303416.7366
PT	13+28.57	609297.0414	2303314.9065
POT	15+16.60	609484.9438	2303321.8813

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	603789.6831	2302714.2893
POT	13+05.63	603668.4996	2302994.8690

Y10			
TYPE	STATION	NORTH	EAST
POT	10+00.00	610277.6329	2303554.0118
POT	12+75.17	610273.0706	2303829.1448

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	604245.6122	2303121.8626
POT	15+24.14	604283.9679	2303644.5990

Y11			
TYPE	STATION	NORTH	EAST
POT	10+00.00	610269.7377	2303828.8017
PC	10+84.47	610273.8769	2303913.1744
PT	15+30.77	610420.1460	2304328.2277
POT	15+37.12	610423.8816	2304333.3661

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	604851.7672	2302133.2581
PC	15+31.69	605259.8657	2302474.0666
PT	18+54.15	605389.0319	2302757.8423
POT	21+32.34	605383.2688	2303035.9675

Y4LT			
TYPE	STATION	NORTH	EAST
POT	10+00.00	604868.4330	2302113.3018
PC	15+29.77	605275.0579	2302452.8797
PT	18+52.23	605404.2241	2302736.6554
POT	19+05.77	605403.1150	2302790.1816

Y4RT			
TYPE	STATION	NORTH	EAST
POT	10+00.00	604835.1015	2302153.2143
PC	15+33.61	605244.6735	2302495.2535
PT	18+56.07	605373.8397	2302779.0292
POT	18+66.62	605373.6213	2302789.5704

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	605353.4608	2302651.9466
PC	10+33.49	605385.0333	2302640.7910
PRC	11+97.21	605541.5552	2302660.9575
PT	15+39.58	605838.8386	2302830.0691
PC	15+76.61	605872.3629	2302845.7903
PT	17+12.54	605944.1646	2302953.3597
POT	17+54.20	605946.0325	2302994.9805

NOTE: DRAWING NOT TO SCALE

6/2/99

1/3/2020
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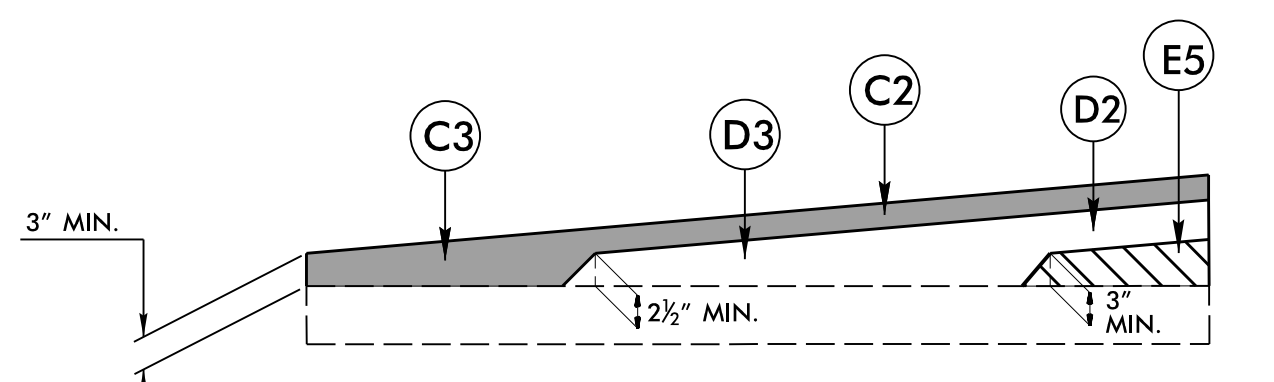
6/2/20

PAVEMENT SCHEDULE

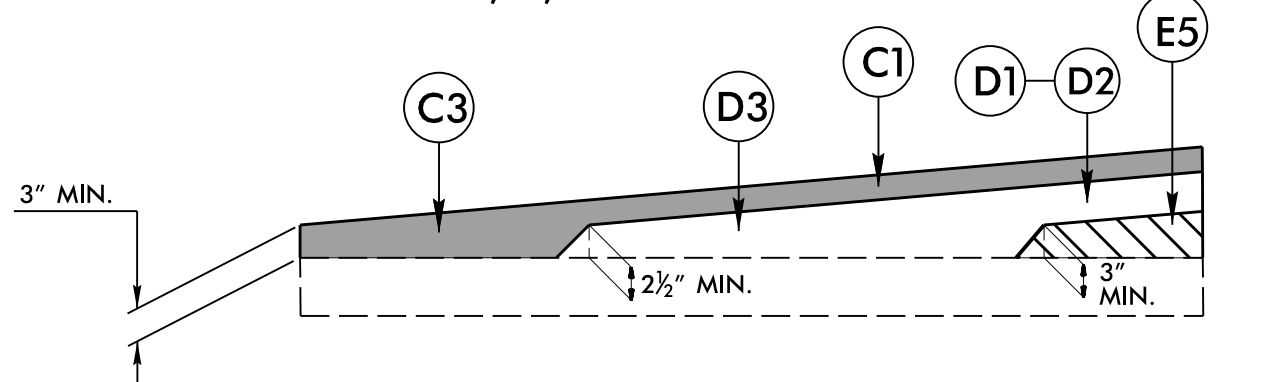
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	2'-9" CONCRETE CURB AND GUTTER.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.	R3	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R4	8" X 18" CONCRETE CURB.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK.
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	T	EARTH MATERIAL.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E2	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	V1	VARIABLE DEPTH MILLING (SEE MILLING DETAIL)
E3	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.	V2	UNIFORM MILLING. 1½" IN DEPTH.
E4	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAILS)
E5	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.		

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

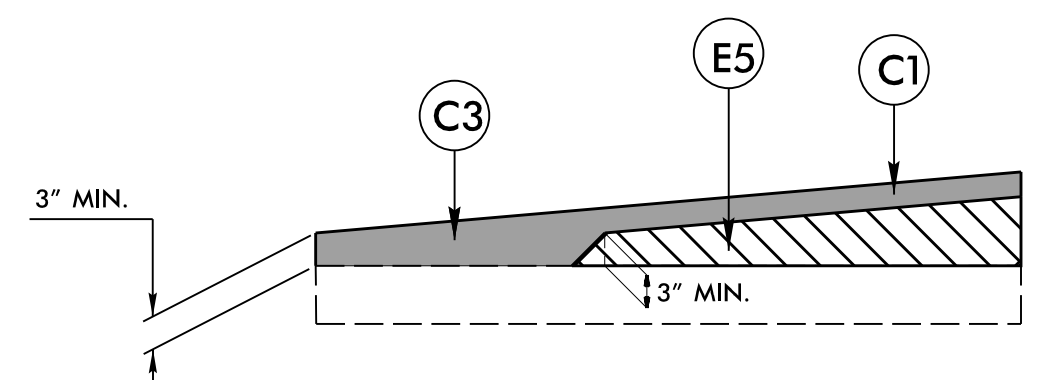
NOTES: BENCH NEW ASPHALT PAVEMENT TO EXISTING ASPHALT PAVEMENT TO STAGGER ASPHALT PAVEMENT JOINTS AT A MINIMUM OF 6".
FOR 2'-9" CURB AND GUTTER, SEE SPECIAL DETAIL SHEET 2C-1



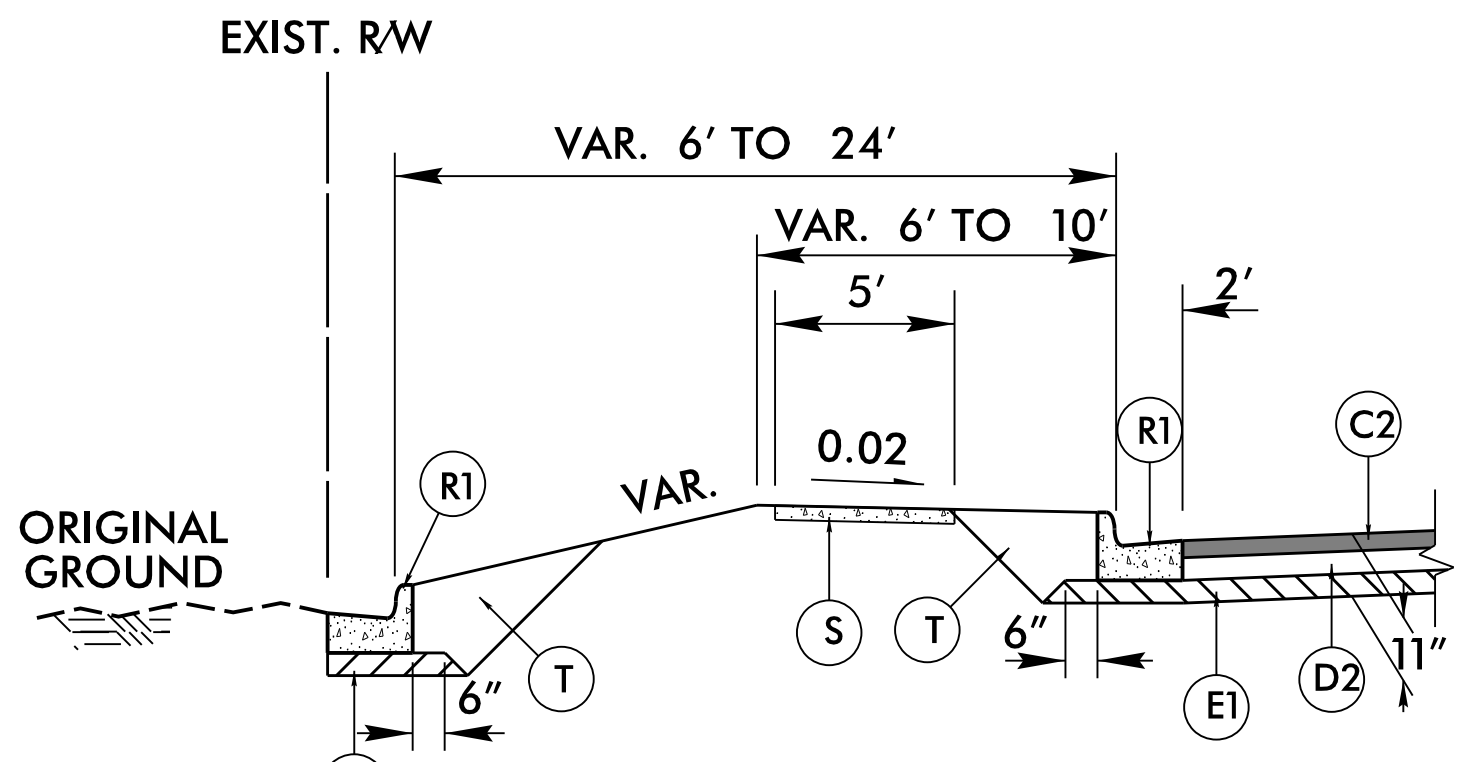
W1: WEDGING DETAIL FOR RESURFACING
USE IN CONJUNCTION WITH TYPICAL SECTION 1, 7, 8 & 9



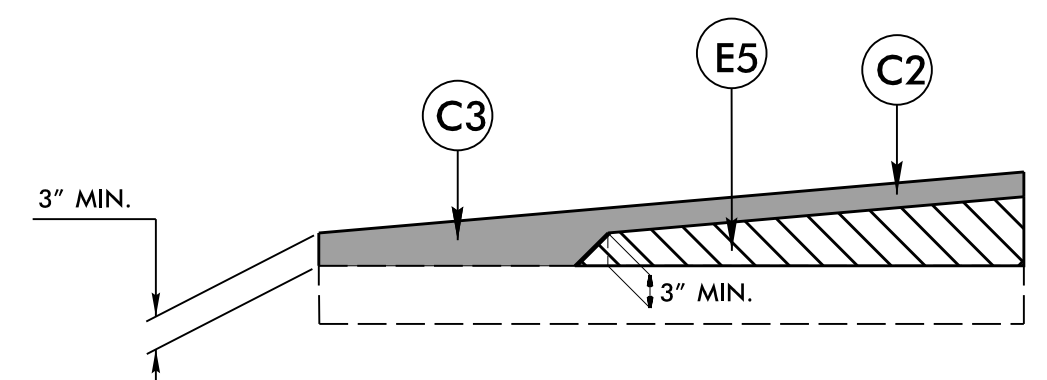
W2: WEDGING DETAIL FOR RESURFACING
USE IN CONJUNCTION WITH TYPICAL SECTIONS 3, 4, 11, 12 & 14



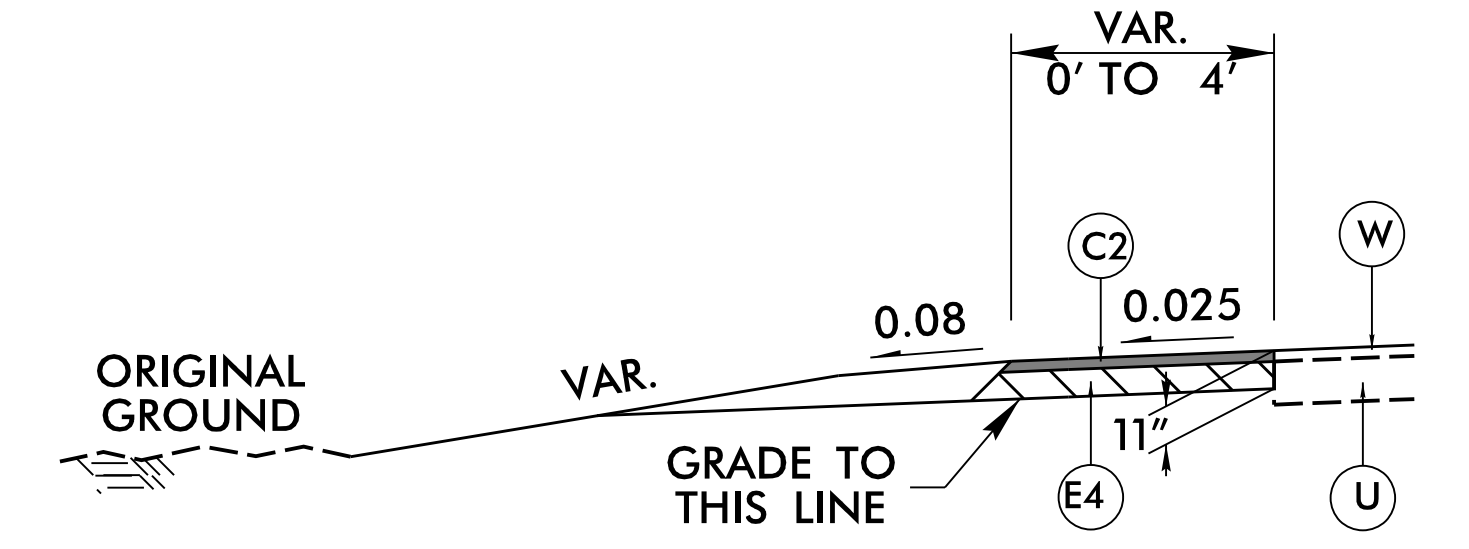
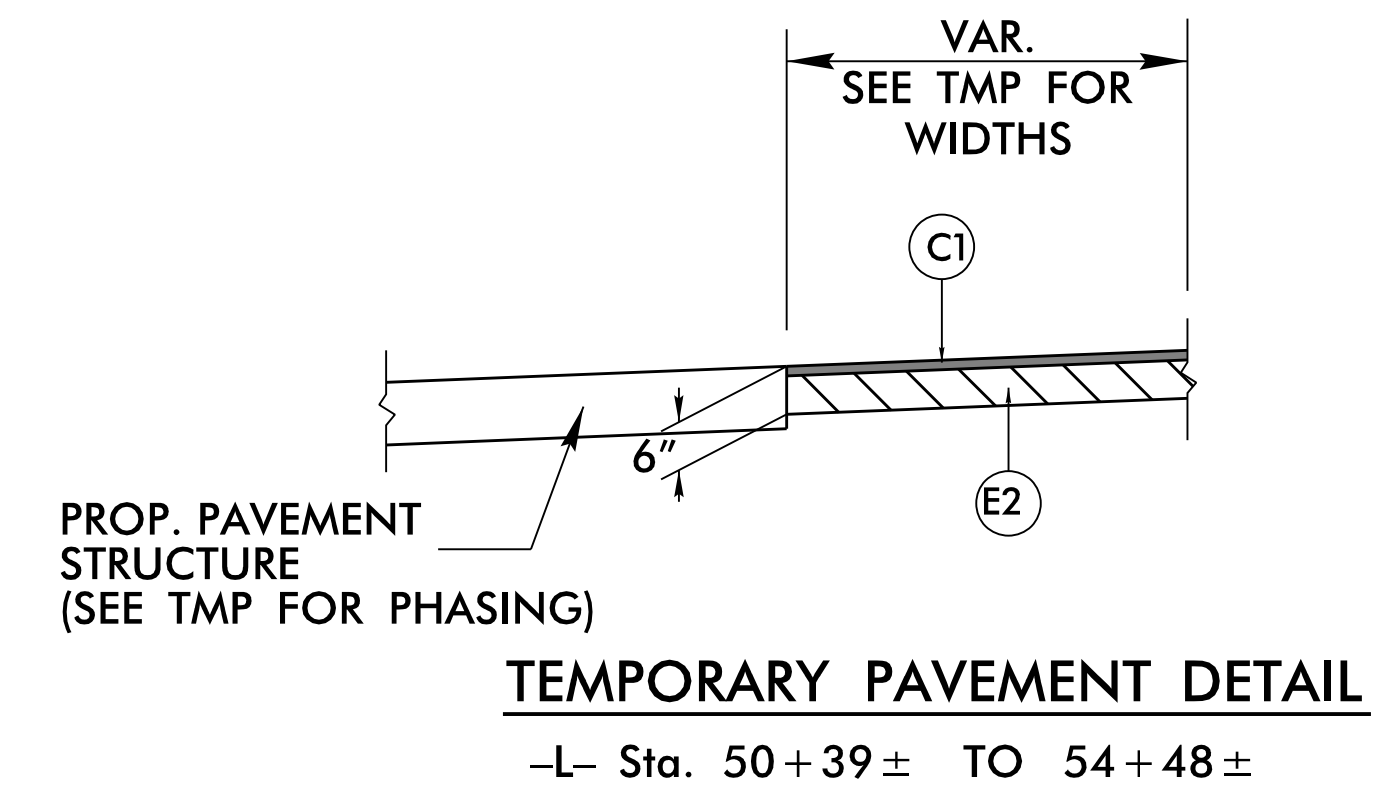
W3: WEDGING DETAIL FOR RESURFACING
USE IN CONJUNCTION WITH TYPICAL SECTIONS 6 AND 15



CURB CHANNELIZATION DETAIL A
USE CURB CHANNELIZATION DETAIL A
-L- STA. 26+90± TO -L- STA. 30+20±

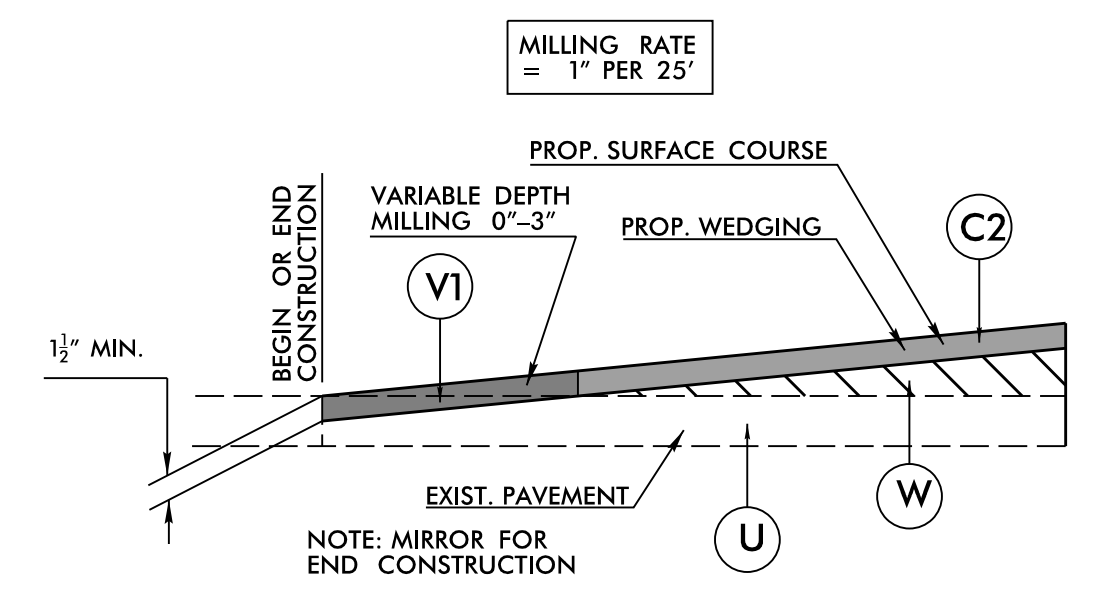


W4: WEDGING DETAIL FOR RESURFACING
USE IN CONJUNCTION WITH TYPICAL SECTION 13

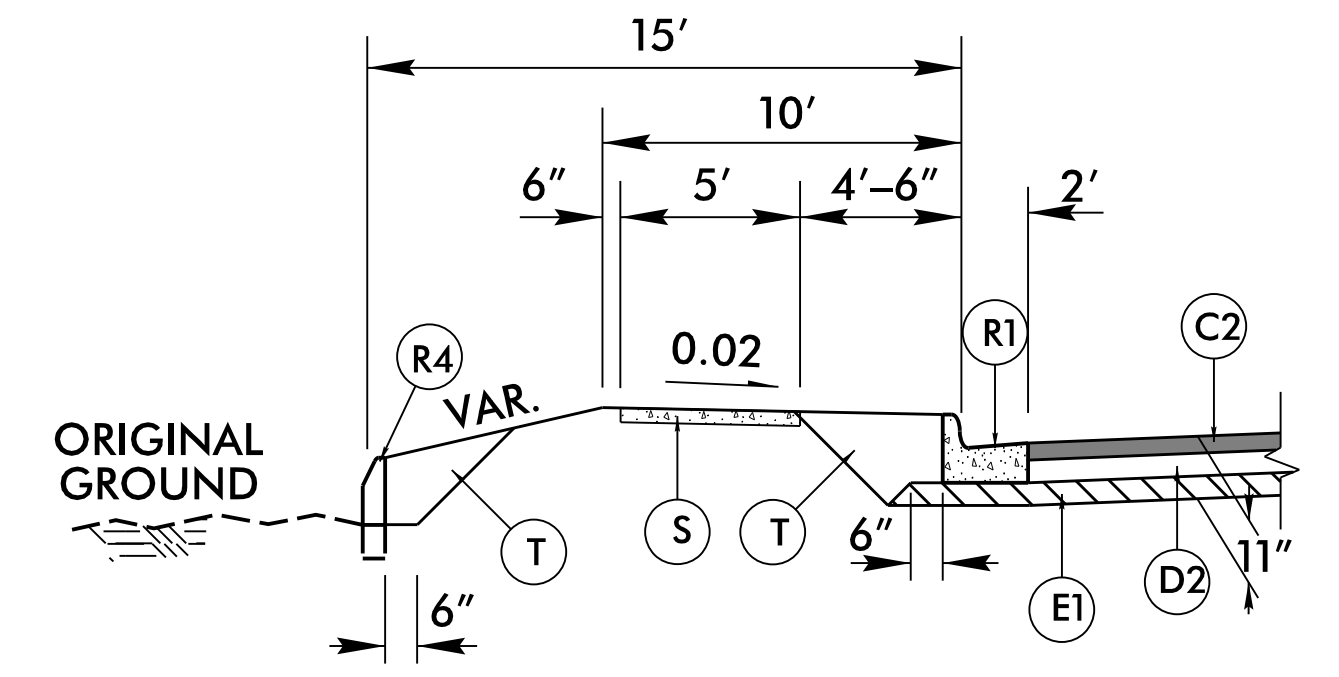


NARROW WIDENING DETAIL
USE IN SHOULDER SECTIONS ONLY

NOTE: USE IN SECTIONS WHERE PAVEMENT WIDENING IS LESS THAN 4'.



INCIDENTAL MILLING DETAIL
USE IN CONJUNCTION WITH TYPICAL SECTIONS 1, 3, 4, 6, 7, 12, 13, 14, AND 15



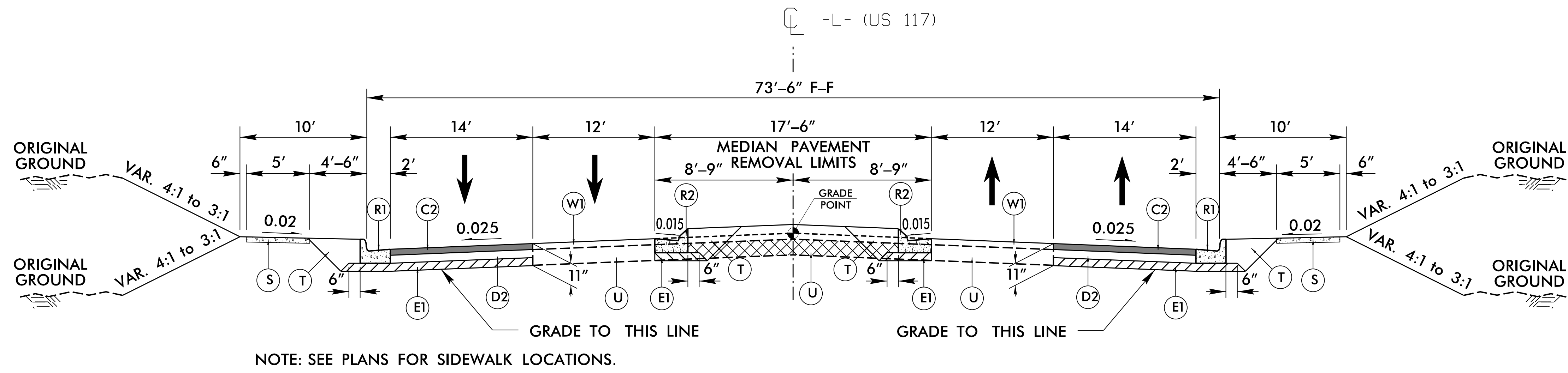
CURB CHANNELIZATION DETAIL B
USE CURB CHANNELIZATION DETAIL B
-L- STA. 42+30± TO -L- STA. 44+50±

PROJECT REFERENCE NO. U-2714	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
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 DATE: 1/30/2020

6/2/2020

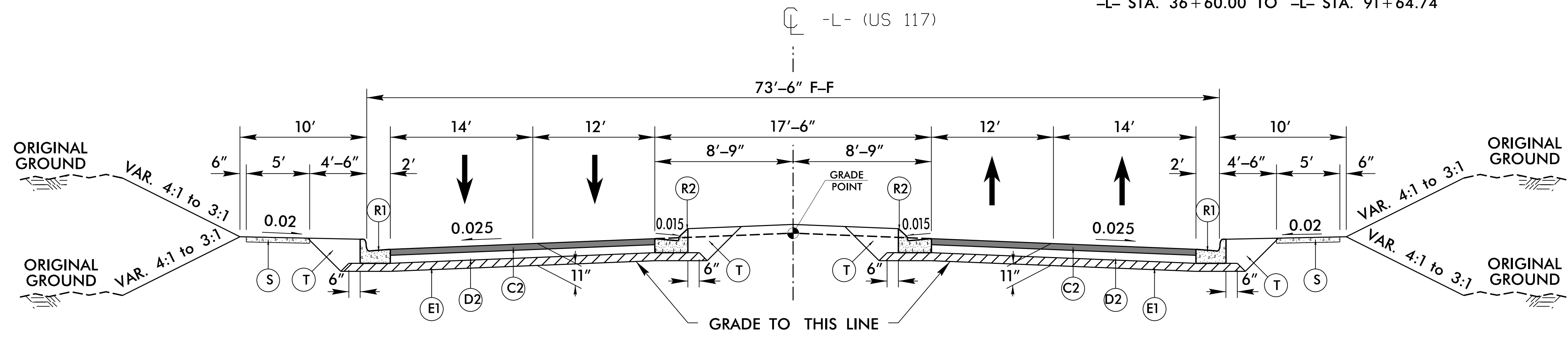
PROJECT REFERENCE NO. U-2714	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



TYPICAL SECTION NO. 1

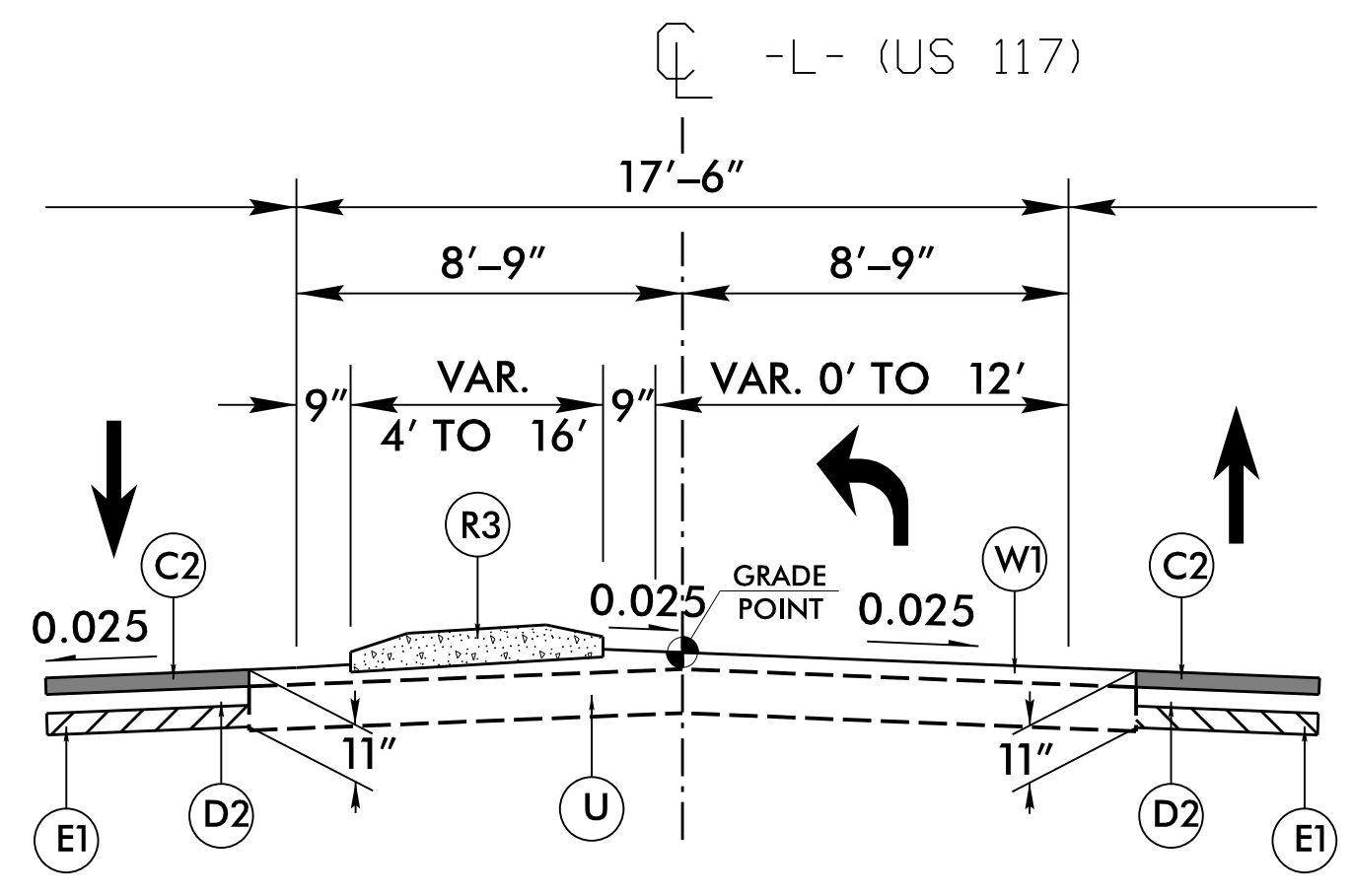
USE TYPICAL SECTION NO. 1
 -L- STA. 10+00.00 TO -L- STA. 14+00.00
 -L- STA. 22+00.00 TO -L- STA. 31+60.00
 -L- STA. 36+60.00 TO -L- STA. 91+64.74

PAVEMENT SCHEDULE	
C2	3" S9.5B
D2	4" I19.0C
E1	4" B25.0C
R1	2'-6" CURB & GUTTER
R2	2'-9" CURB & GUTTER
R3	5" MONOLITHIC CONC. ISLAND
S	4" CONC. SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	VAR. DEPTH ASPHALT PAVEMENT



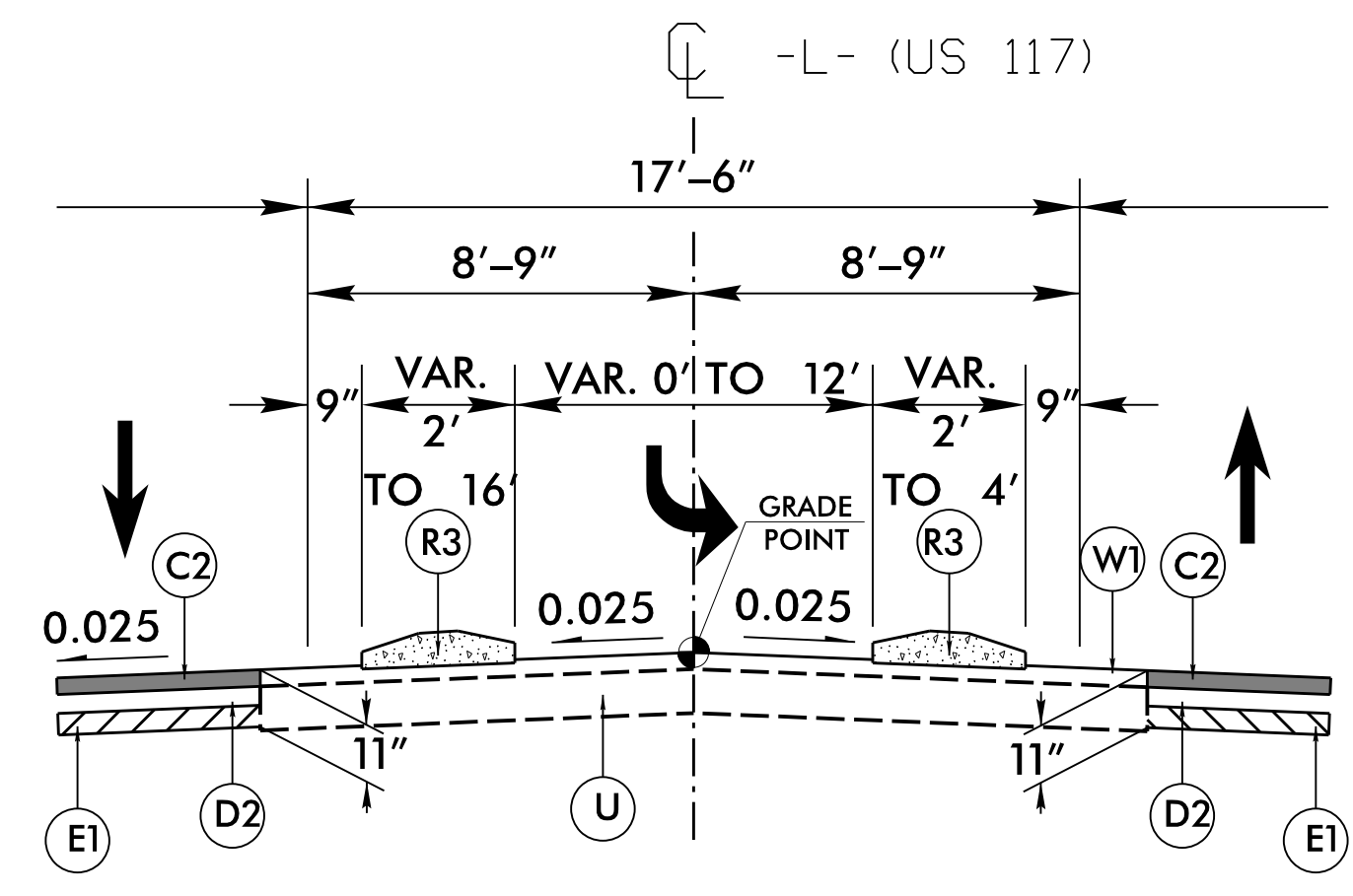
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
 -L- STA. 14+00.00 TO -L- STA. 22+00.00
 -L- STA. 31+60.00 TO -L- STA. 36+60.00



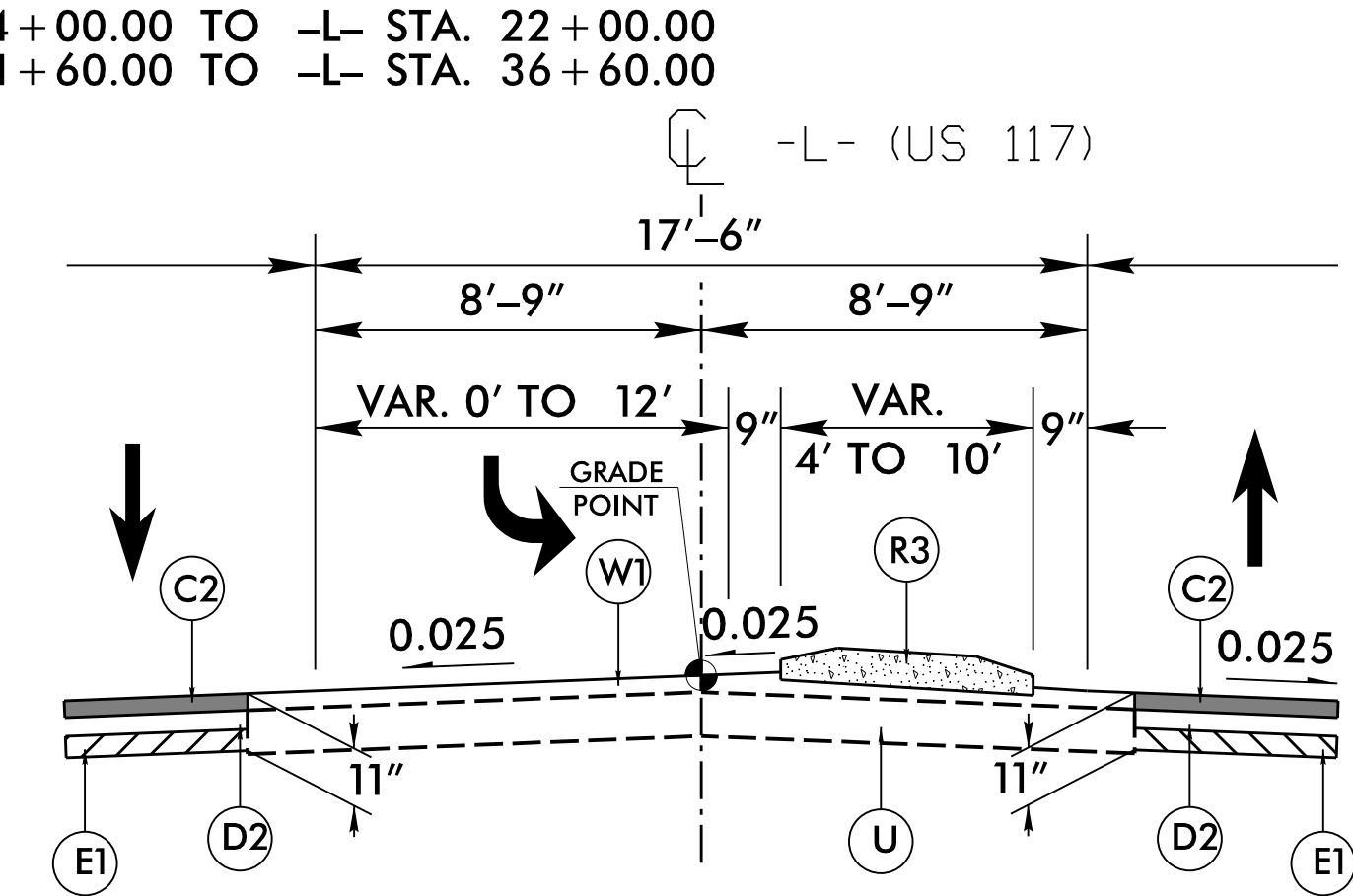
LEFT TURN DETAIL A

USE LEFT TURN DETAIL A
 -L- STA. 21+22.25 TO -L- STA. 23+95.00
 -L- STA. 27+40.00 TO -L- STA. 29+90.00
 -L- STA. 38+47.25 TO -L- STA. 41+30.00
 -L- STA. 53+89.25 TO -L- STA. 57+22.00
 -L- STA. 64+83.25 TO -L- STA. 68+16.00
 -L- STA. 85+90.00 TO -L- STA. 91+40.00



LEFT TURN DETAIL B

USE LEFT TURN DETAIL B
 -L- STA. 35+54.00 TO -L- STA. 36+43.00



LEFT TURN DETAIL C

USE LEFT TURN DETAIL C
 -L- STA. 13+46.00 TO -L- STA. 21+22.25
 -L- STA. 24+65.00 TO -L- STA. 27+40.00
 -L- STA. 30+90.00 TO -L- STA. 34+20.00
 -L- STA. 36+43.00 TO -L- STA. 38+47.25
 -L- STA. 42+74.43 TO -L- STA. 46+07.18
 -L- STA. 58+28.00 TO -L- STA. 61+60.75
 -L- STA. 69+29.25 TO -L- STA. 72+60.00

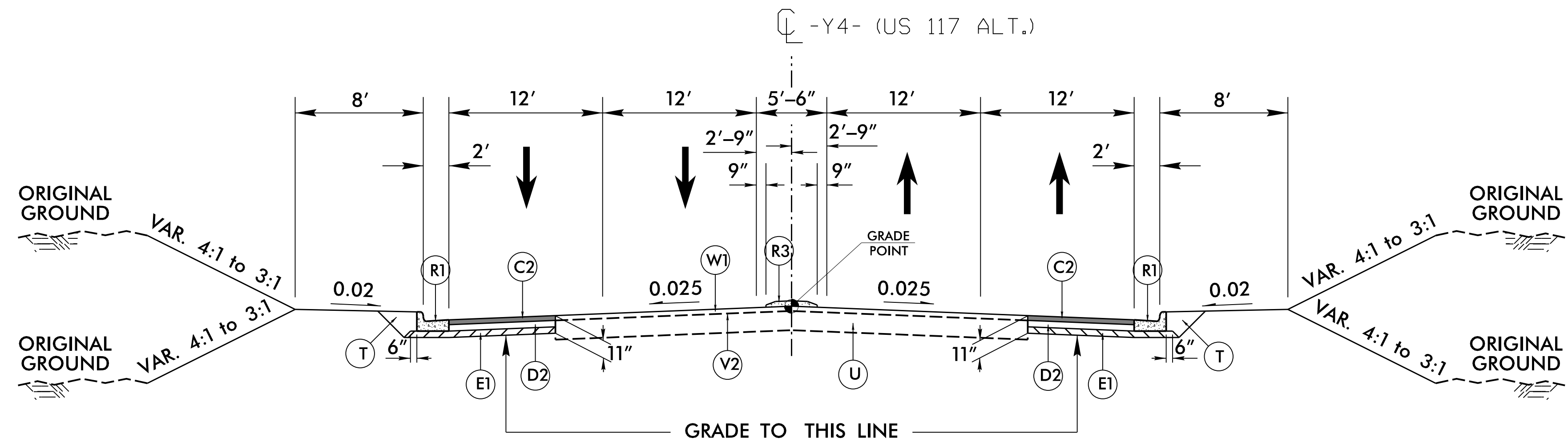
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REVISIONS

6/2/20

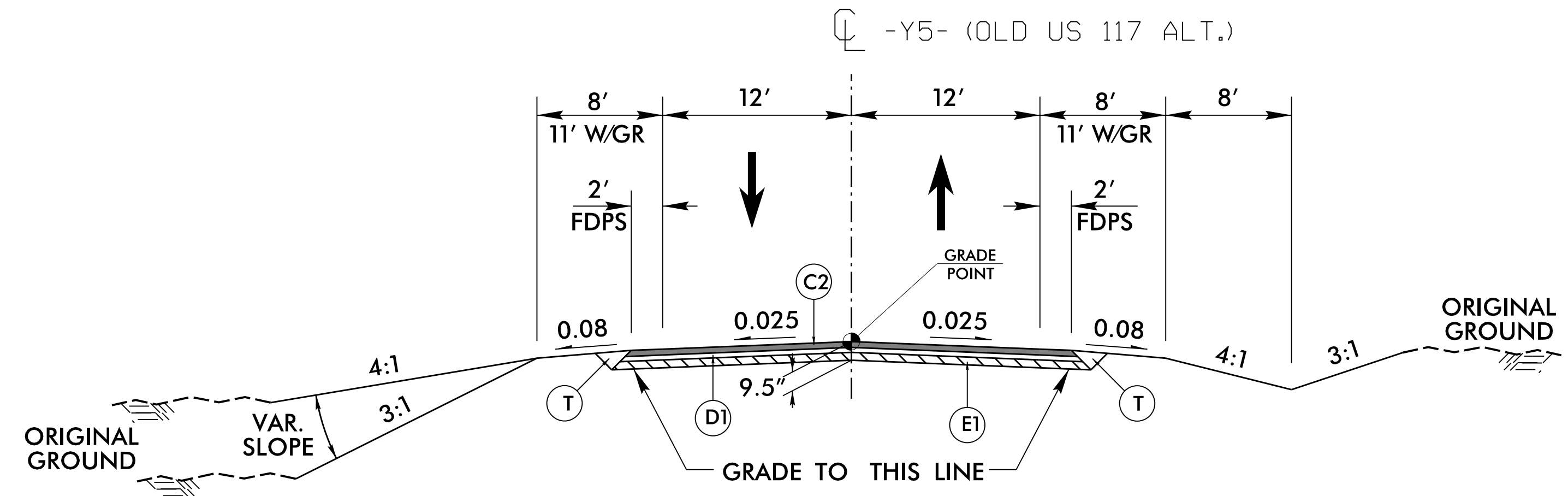
PROJECT REFERENCE NO. U-2714	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PAVEMENT SCHEDULE	
C2	3" S9.5B
D1	2½" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R1	2'-6" CURB & GUTTER
R3	5" MONOLITHIC CONC. ISLAND
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	VAR. DEPTH ASPHALT PAVEMENT



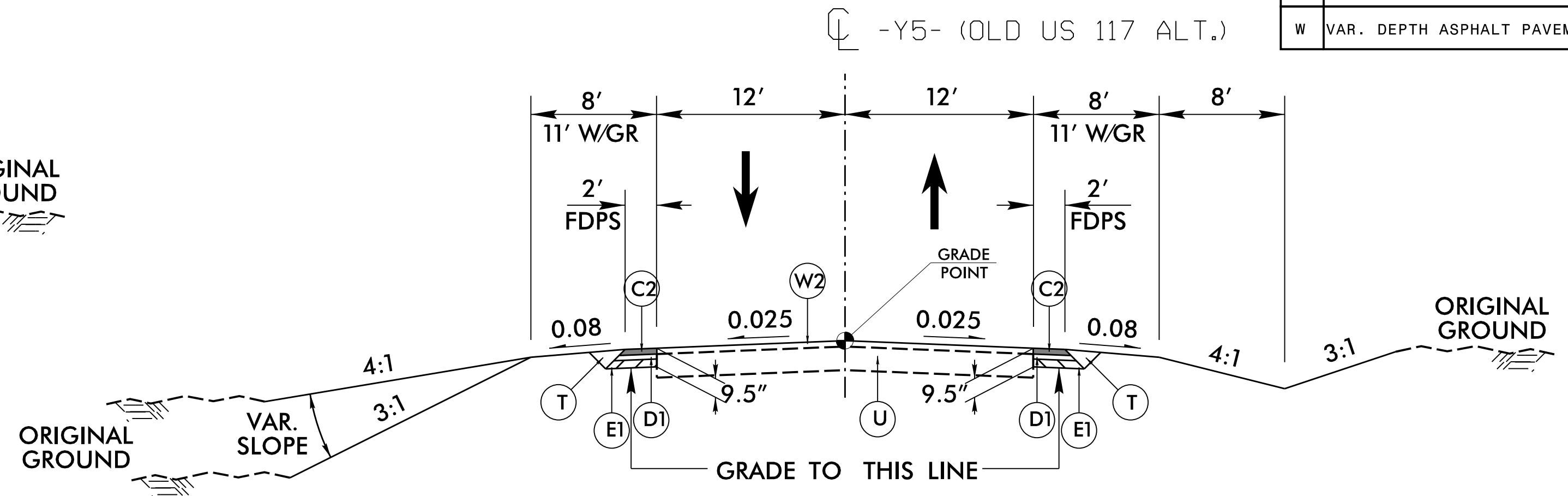
TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9
-Y4- STA. 18+86.19 TO -Y4- STA. 20+97.43



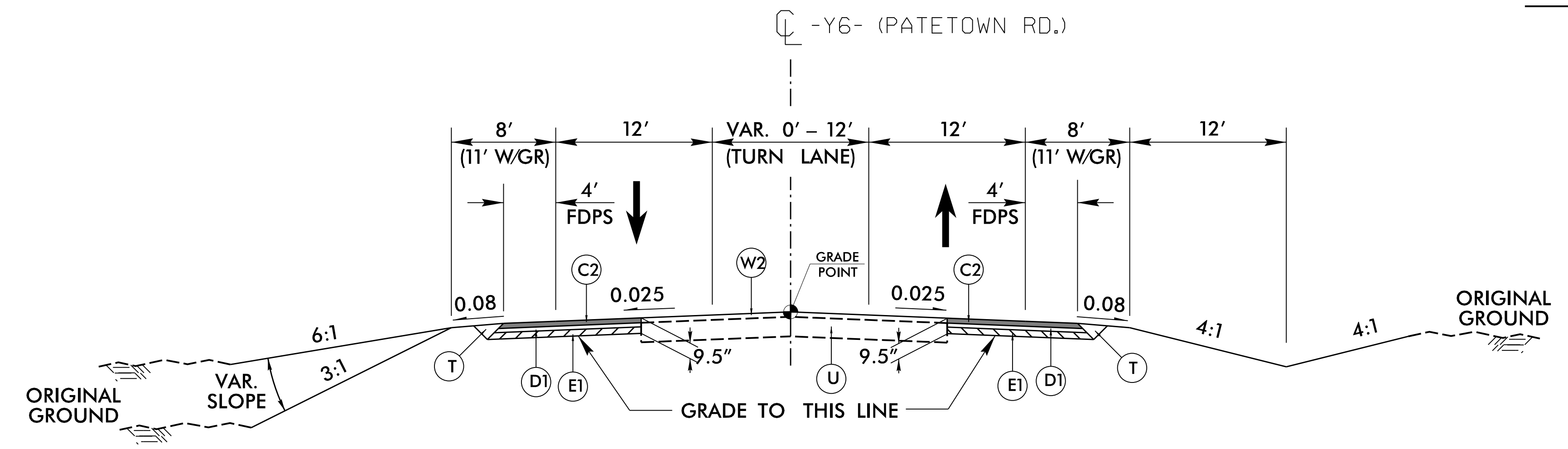
TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10
-Y5- STA. 10+53.49 TO -Y5- STA. 13+00.00



TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11
-Y5- STA. 13+00.00 TO -Y5- STA. 17+19.45



TYPICAL SECTION NO. 12

USE TYPICAL SECTION NO. 12
-Y6- STA. 10+41.64 TO -Y6- STA. 16+50.00

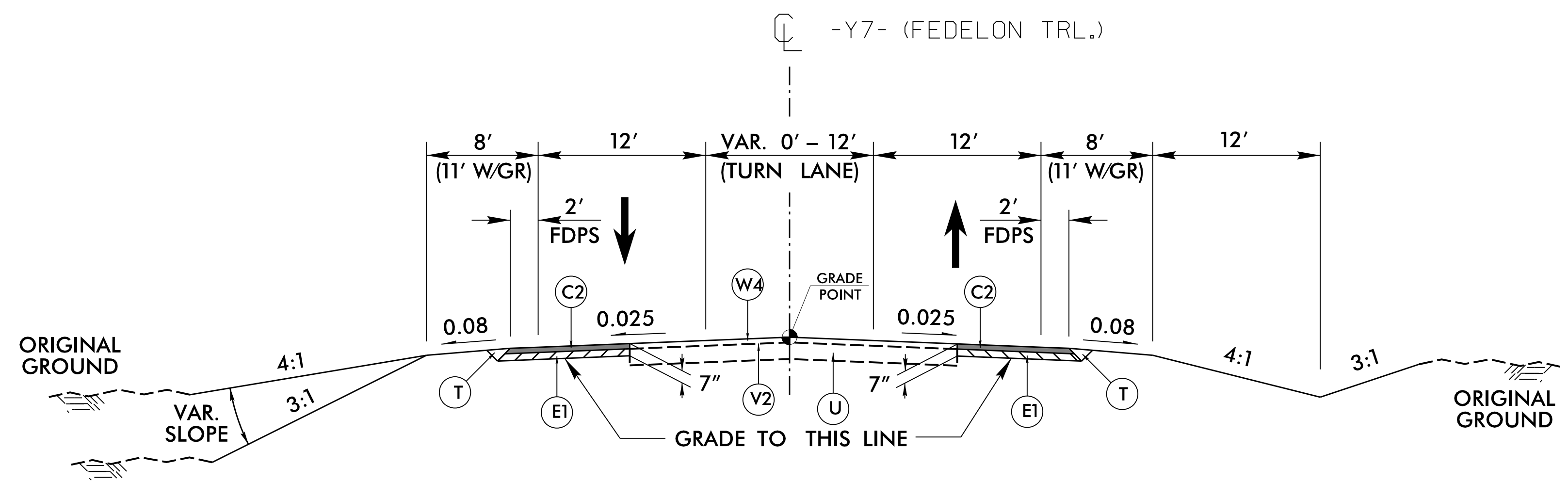
PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M\NCDOT-U2714_US117.cad\NCDOT-U2714_US117.dwg
 DATE: 1/30/2020
 TIME: 11:18:35 AM
 PENTABLE: NCDOT_pshp.plt
 USER: CHARRIS
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M\NCDOT-U2714_US117.cad\NCDOT-U2714_US117.dwg

REVISIONS

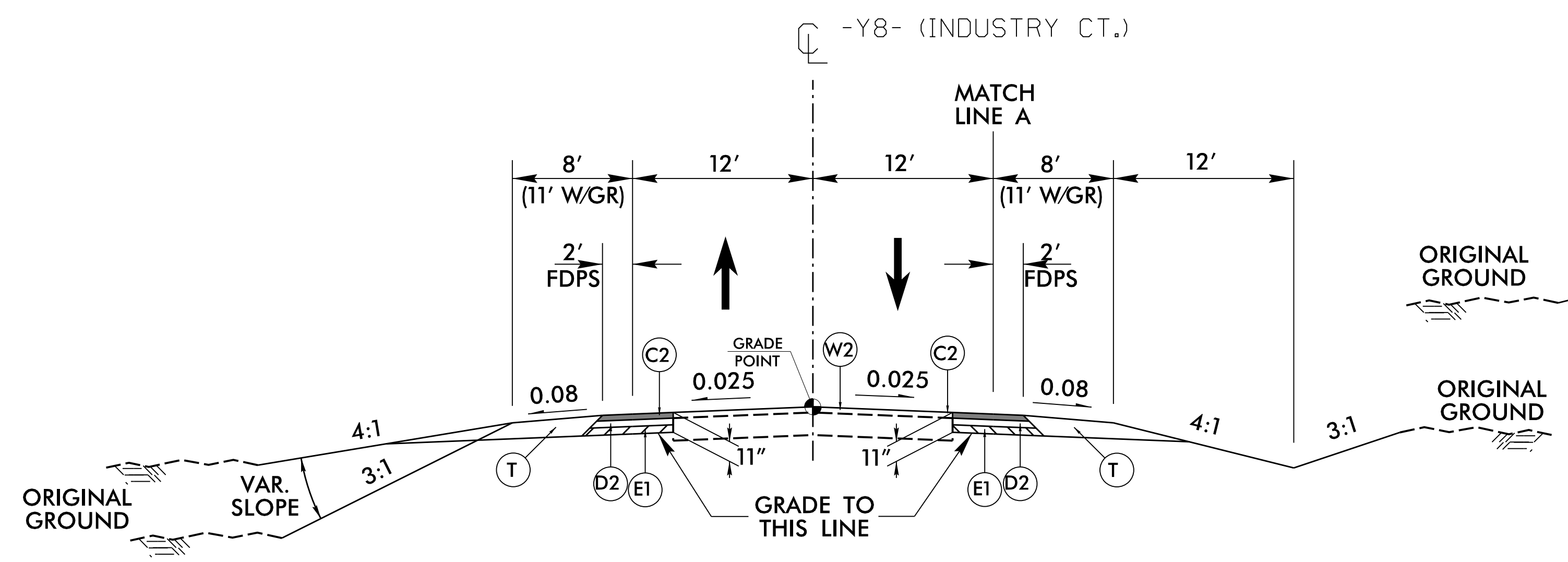
6/2/20

PROJECT REFERENCE NO. U-2714	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

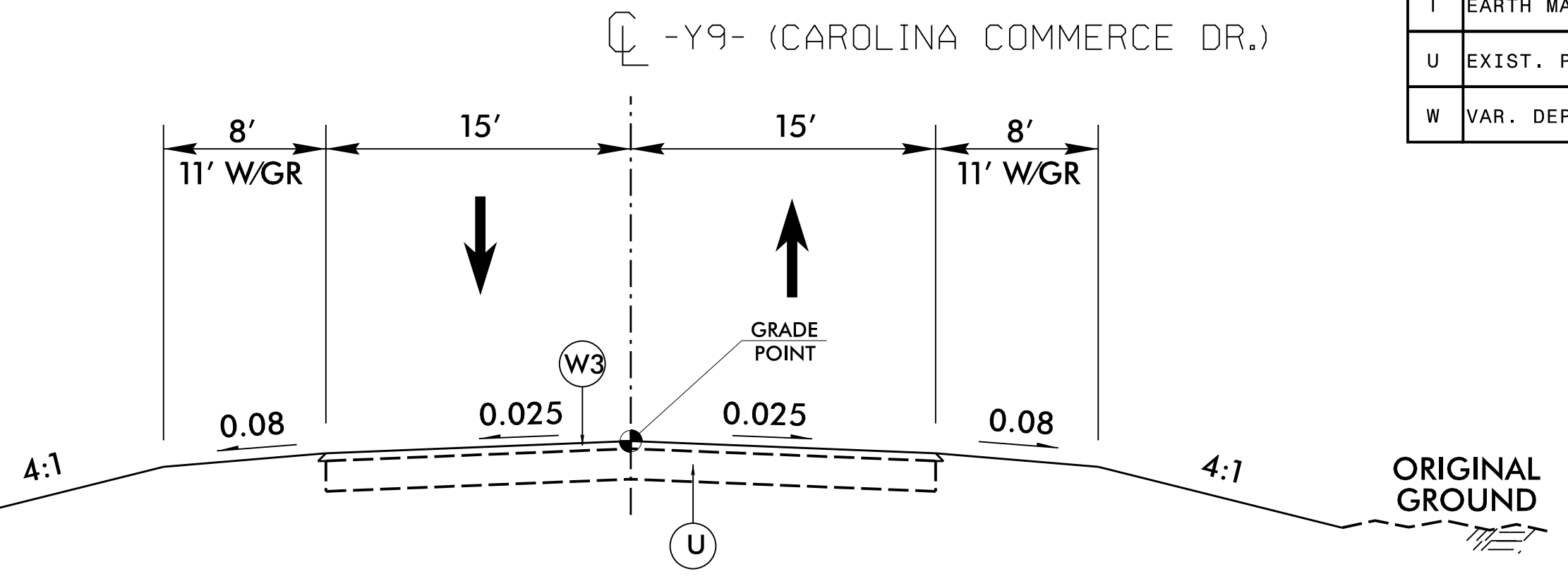
PAVEMENT SCHEDULE	
C2	3" S9.5B
D2	4" I19.0C
E1	4" B25.0C
E3	5.5" B25.0C
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	VAR. DEPTH ASPHALT PAVEMENT



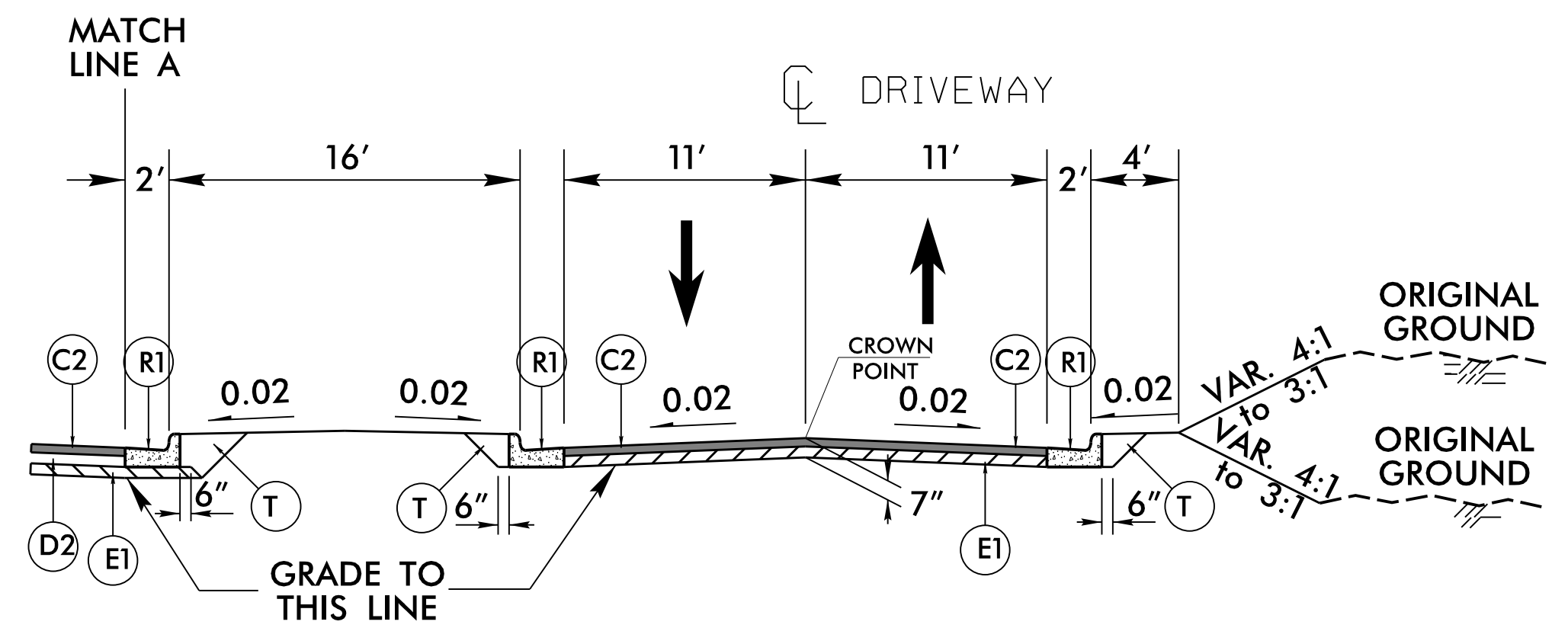
TYPICAL SECTION NO. 13
 USE TYPICAL SECTION NO. 13
 -Y7- STA. 10+50.00 TO -Y7- STA. 14+45.02



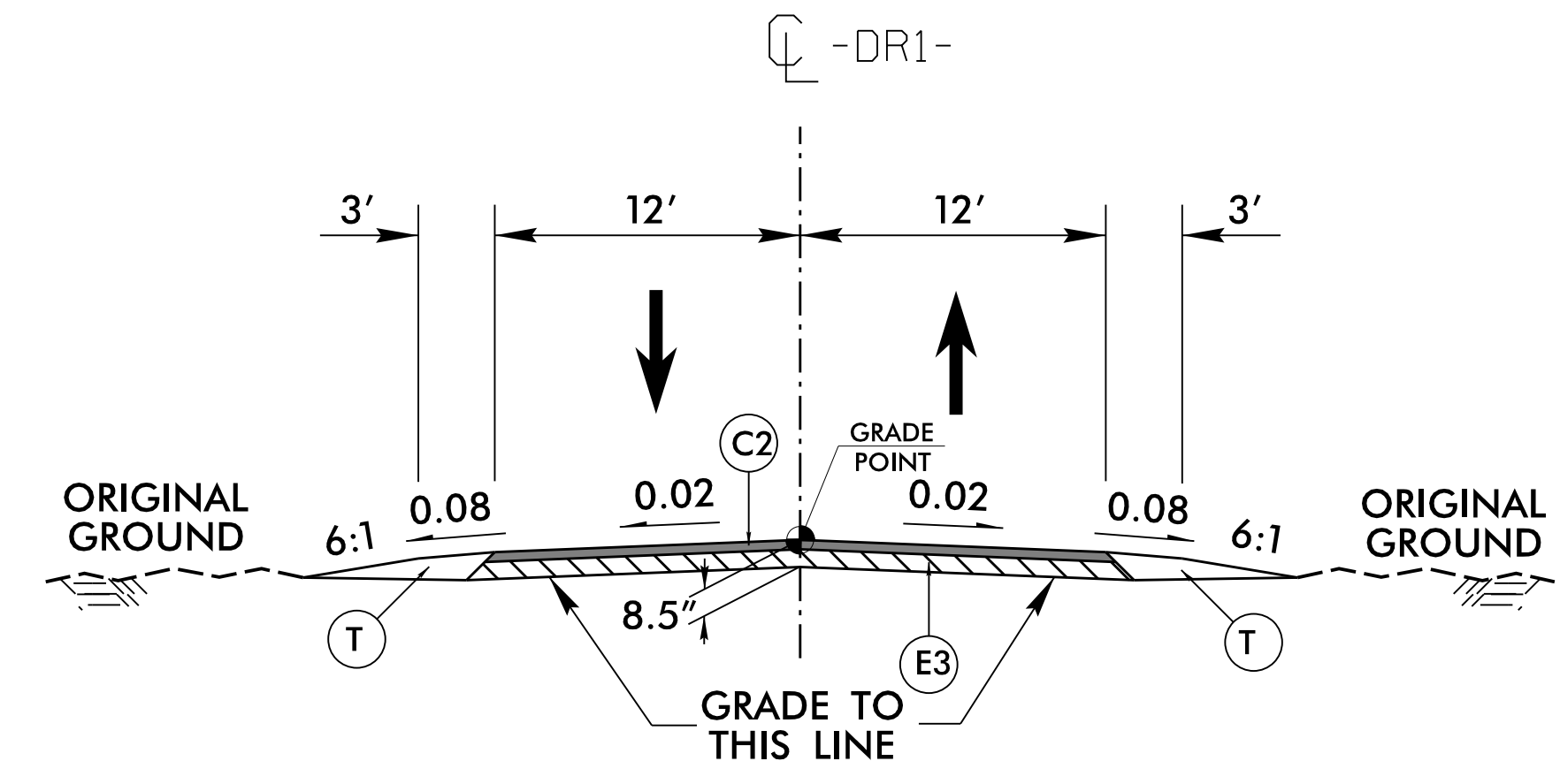
TYPICAL SECTION NO. 14
 USE TYPICAL SECTION NO. 14
 -Y8- STA. 10+34.75 TO -Y8- STA. 14+10.00



TYPICAL SECTION NO. 15
 USE TYPICAL SECTION NO. 15
 -Y9- STA. 10+35.54 TO -Y9- STA. 11+50.00

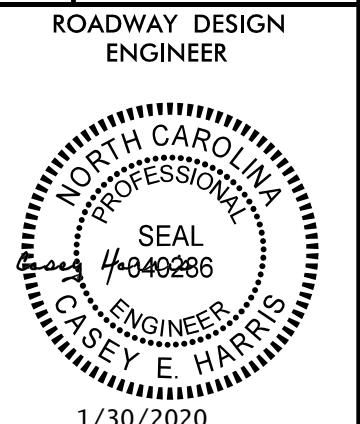


DRIVEWAY DETAIL
 USE DRIVEWAY DETAIL
 -Y8- STA. 10+80± TO -Y8- STA. 12+00±



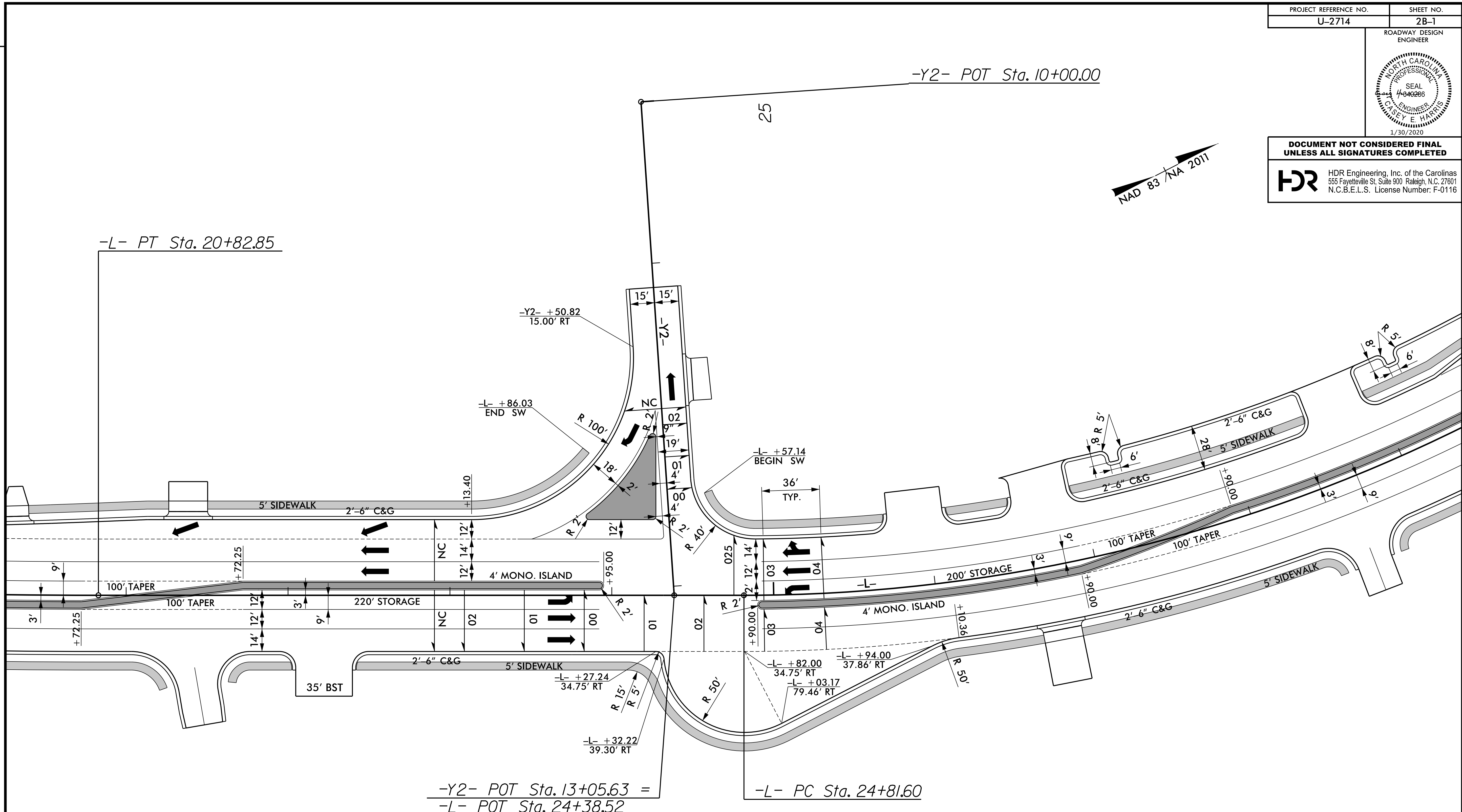
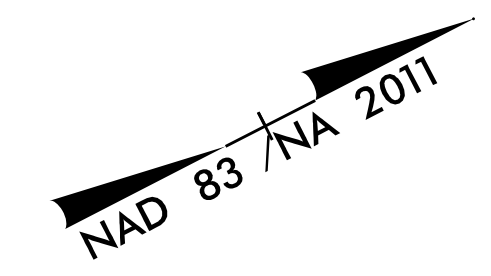
TYPICAL SECTION NO. 16
 USE TYPICAL SECTION NO. 16
 -DRI- STA. 10+00.00 TO -DRI- STA. 11+47.85

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Infrastructure\Roadway\Proj\U2714_RDY_TYP.dgn
 PENTABLE: NCDOT_pshp.plt
 TIME: 11:18:50 AM
 DATE: 1/30/2020
 REVISIONS



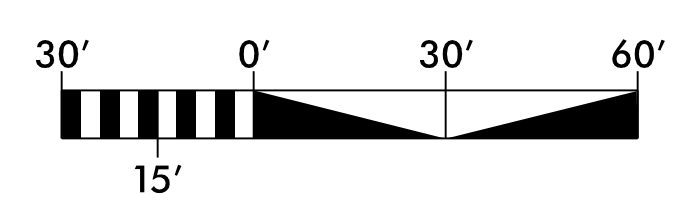
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



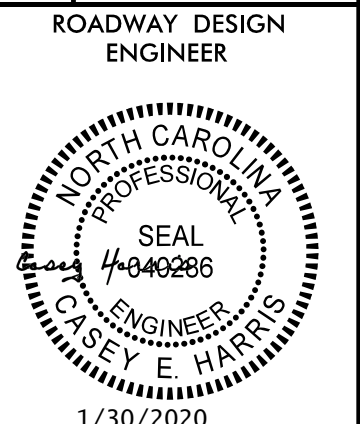
INTERSECTION -L- WITH -Y2-

SEE SHEET 5



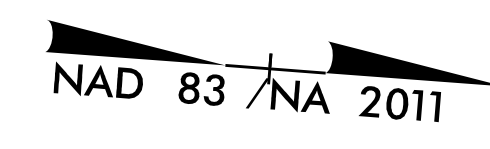
■ PROP. MONOLITHIC CONC. ISLAND (KEYED IN)

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M_NCDOT-U2714_US117.cad
 PENTABLE: NCDOT_pshp.plt
 TIME: 11:00:21 AM
 DATE: 12/9/2019
 REVISIONS:



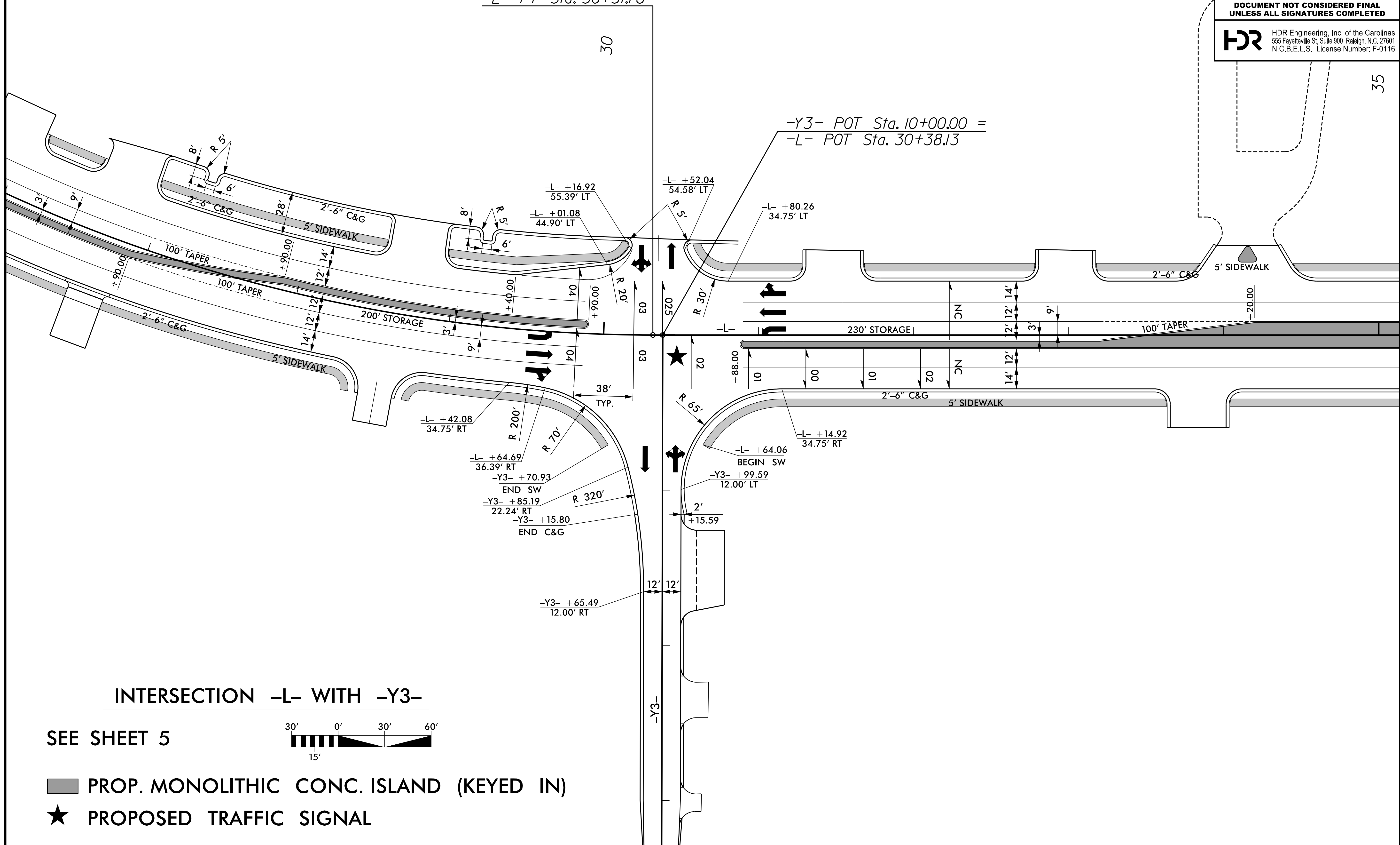
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

HDR HDR Engineering, Inc. of the Carolinas
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N.C.B.E.L.S. License Number: F-0116



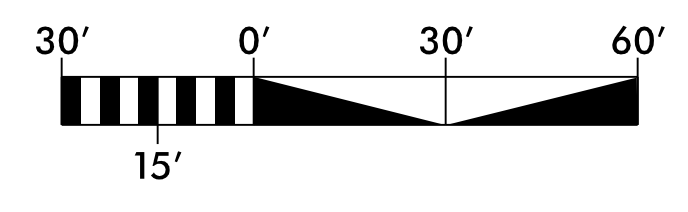
-L- PT Sta. 30+31.76

-Y3- POT Sta. 10+00.00 =
-L- POT Sta. 30+38.13



INTERSECTION -L- WITH -Y3-

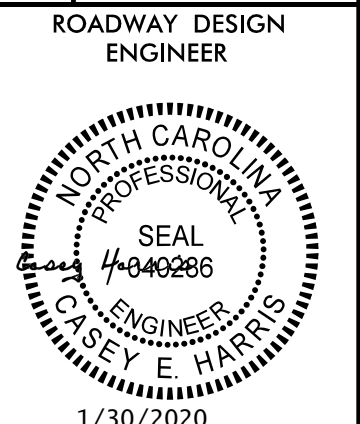
SEE SHEET 5



- PROP. MONOLITHIC CONC. ISLAND (KEYED IN)
- PROPOSED TRAFFIC SIGNAL

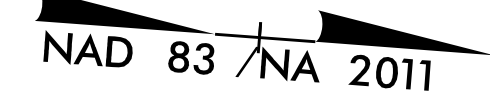
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 USER: SPEREIRA
 DATE: 12/9/2019
 TIME: 11:00:28 AM
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M_NCDOT-U2714_US117.cad_CAD_BIM\6.2_Work_In_Progress\U-2714_NCDOT_File_Structure\Roadway\Proj\U2714_RDY_PSH2B02.dgn

REVISIONS



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N.C.B.E.L.S. License Number: F-0116



-Y4- PT Sta. 18+54.15
-Y4RT- PT Sta. 18+56.07
-Y4RT- POT Sta. 18+66.62 =
-Y4- POT Sta. 18+86.19 (14.75' RT)

-Y4- POT Sta. 21+32.34 =
-L- POT Sta. 41+79.02

-Y4LT- POT Sta. 19+05.77 =
-Y4- POT Sta. 18+86.19 (14.75' LT)

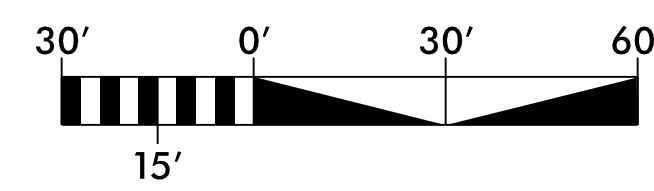
-Y6- POT Sta. 10+00.00 =
-L- POT Sta. 42+04.87

-Y6-PC Sta. 10+23.85

-Y6- PT Sta. 11+32.97

INTERSECTION -L- WITH -Y4- & -Y6-

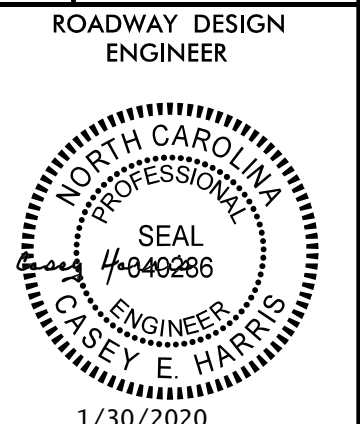
SEE SHEET 6



- PROP. MONOLITHIC CONC. ISLAND (KEYED IN)
- PROPOSED TRAFFIC SIGNAL

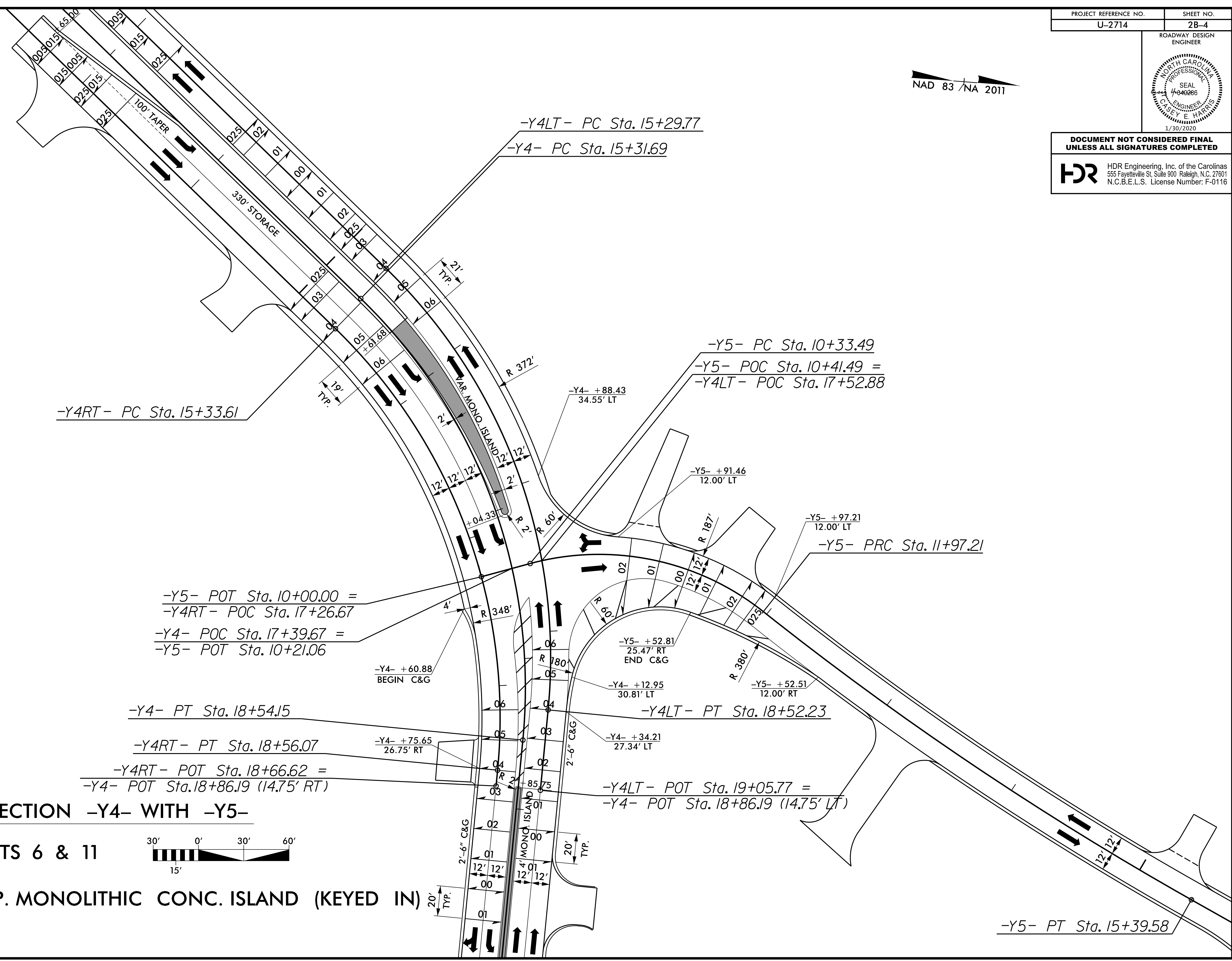
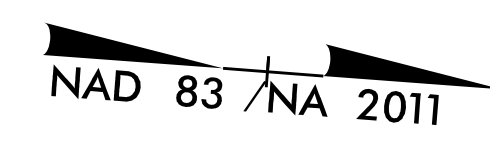
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REVISIONS



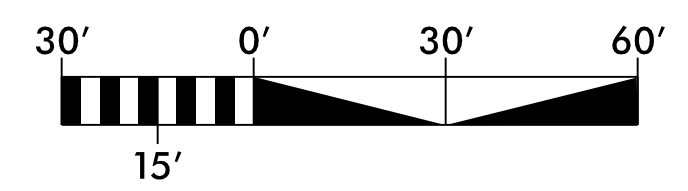
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



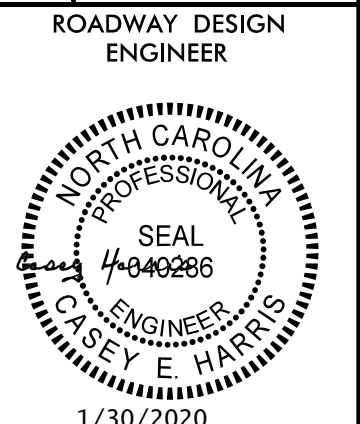
INTERSECTION -Y4- WITH -Y5-

SEE SHEETS 6 & 11



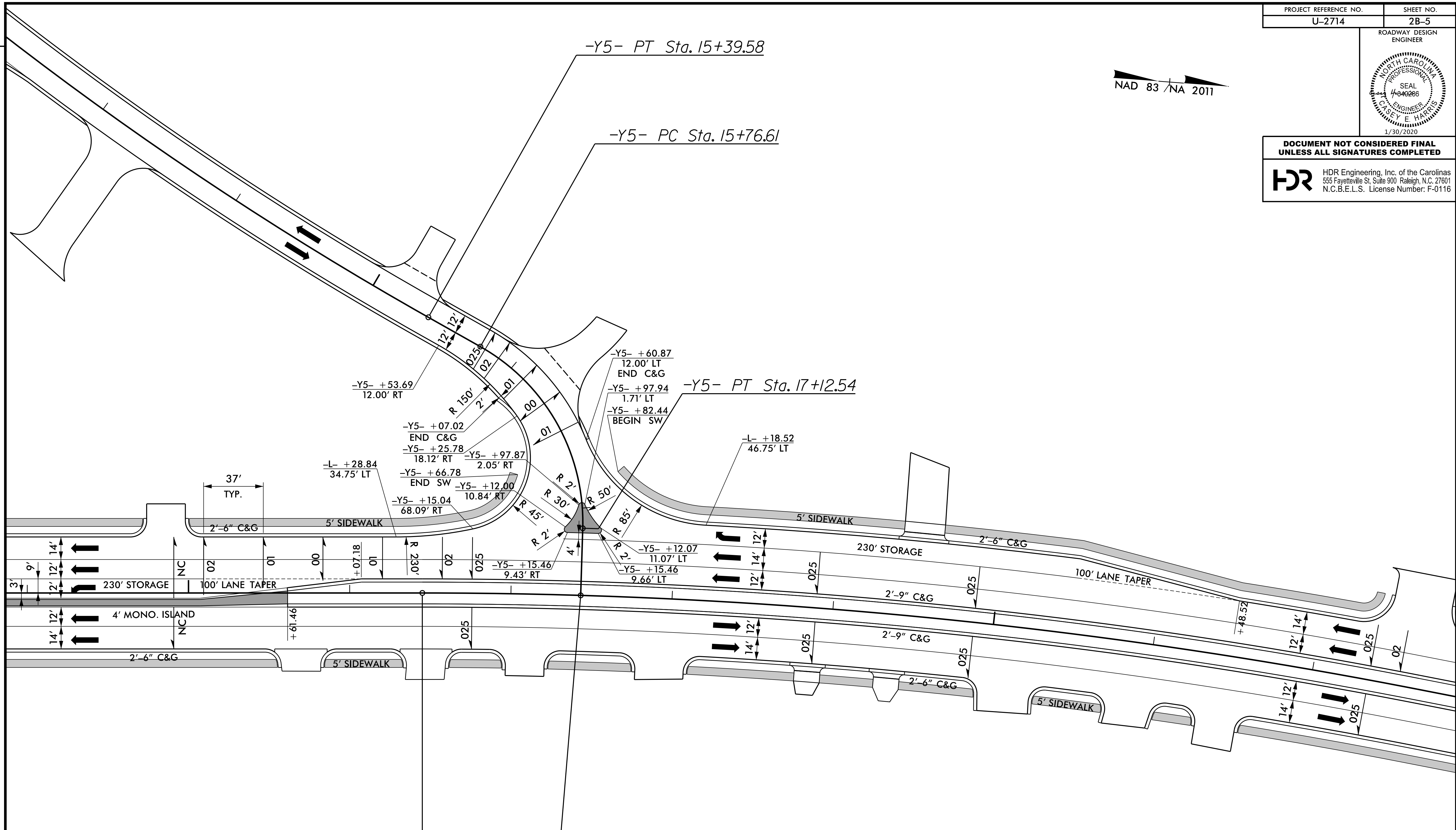
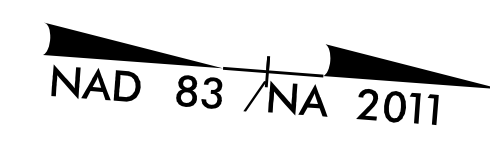
■ PROP. MONOLITHIC CONC. ISLAND (KEYED IN)

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M_NCDOT-U2714_US117.cad
 PENTABLE: NCDOT_pshp.plt.tbl
 DATE: 12/9/2019
 TIME: 11:00:41 AM
 REVISIONS



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HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

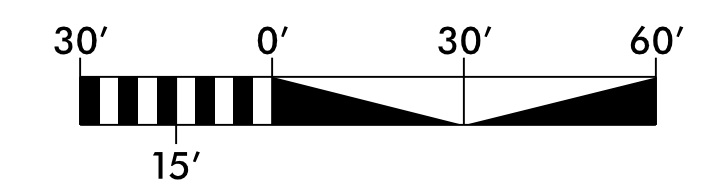


REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: North_Carolina_Dept_of_Transportation\NCDOT_Western_Div_Or-Coll_M_NCDOT-U2714_US117.cad

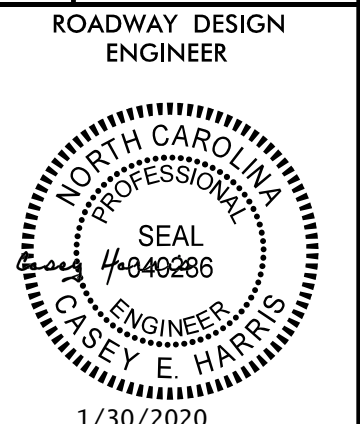
INTERSECTION -L- WITH -Y5-

SEE SHEETS 6 & 7



■ PROP. MONOLITHIC CONC. ISLAND (KEYED IN)

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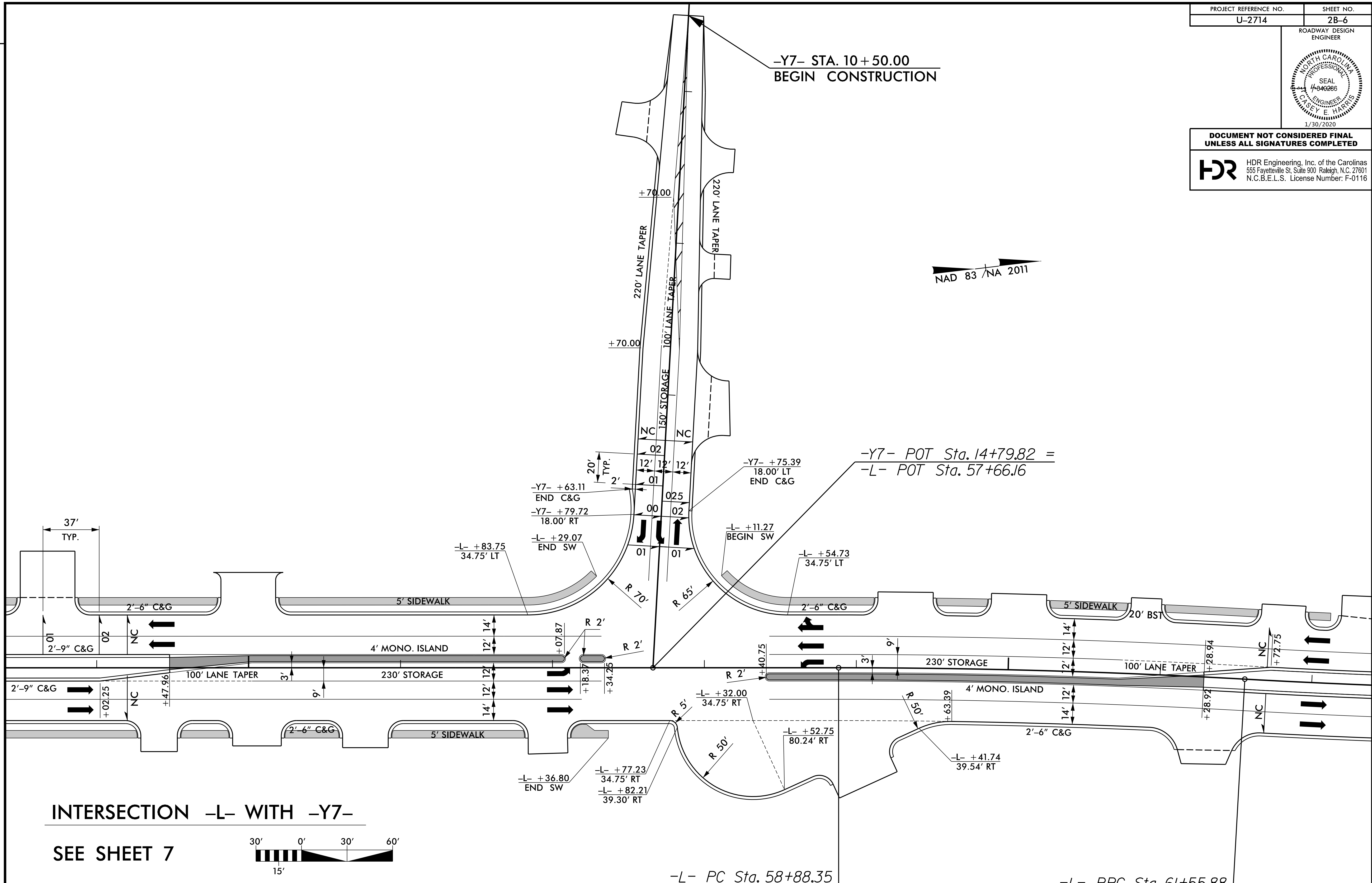
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

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555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

**-Y7- STA. 10+50.00
BEGIN CONSTRUCTION**

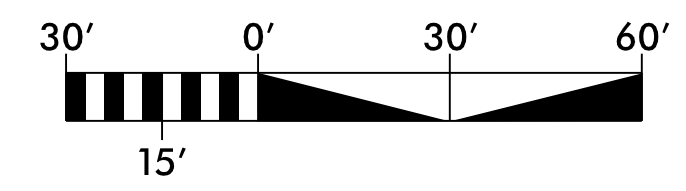
NAD 83 / NA 2011

**-Y7- POT Sta. 14+79.82 =
-L- POT Sta. 57+66.16**



INTERSECTION -L- WITH -Y7-

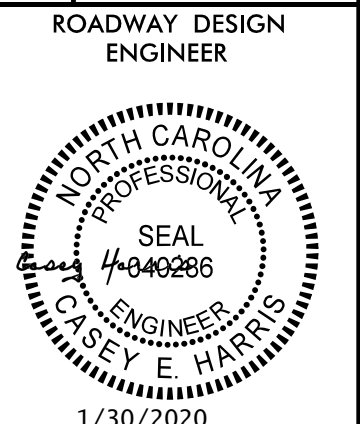
SEE SHEET 7



■ PROP. MONOLITHIC CONC. ISLAND (KEYED IN)

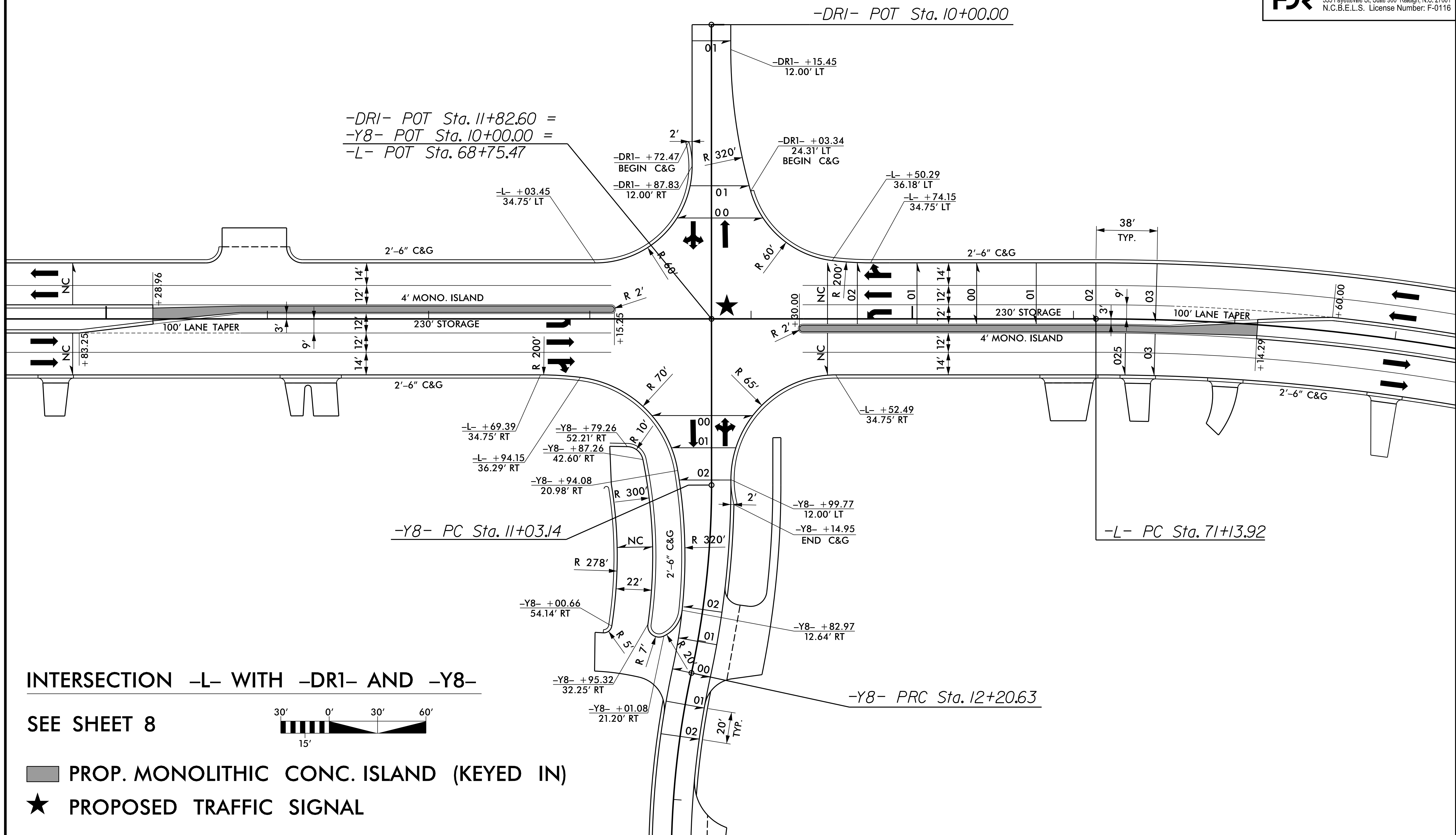
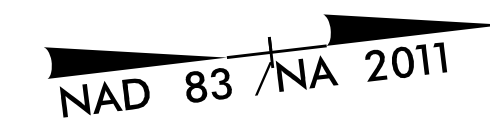
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 USER: SPEREIRA
 DATE: 12/9/2019
 TIME: 11:00:55 AM
 FILE: North_Carolina_Dept_of_Transportation\NCDOT\Western_Div\Or-Coll\M_NCDOT-U2714_US117.cad\6.0_CAD_BITMAP\6.2_Work\In_Progress\U-2714_NCDOT_File_Structure\Roadway\Proj\U2714_RDY_PSH2B06.dgn

REVISIONS



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

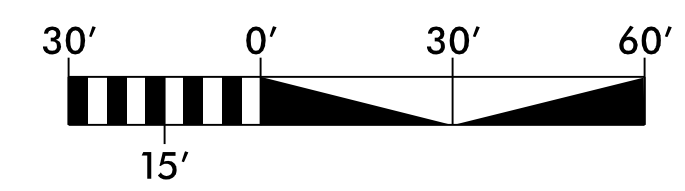
HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



-DRI- POT Sta. 11+82.60 =
-Y8- POT Sta. 10+00.00 =
-L- POT Sta. 68+75.47

INTERSECTION -L- WITH -DRI- AND -Y8-

SEE SHEET 8

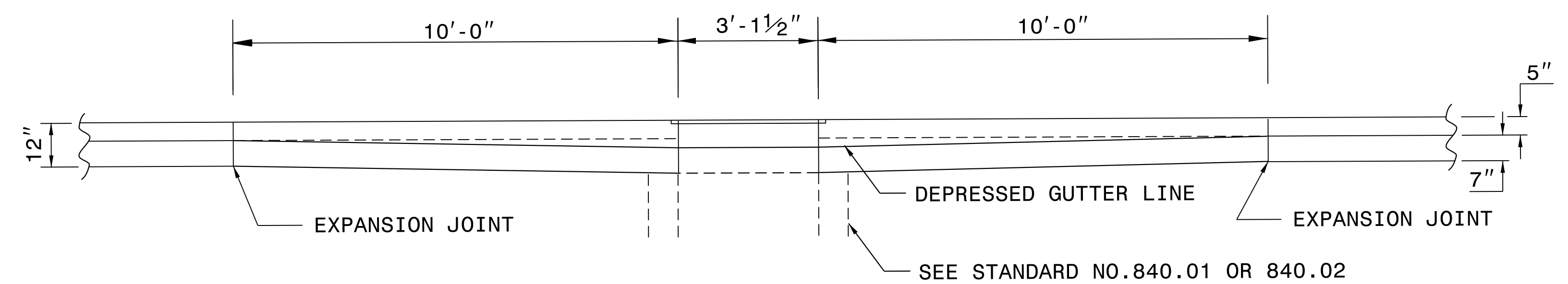
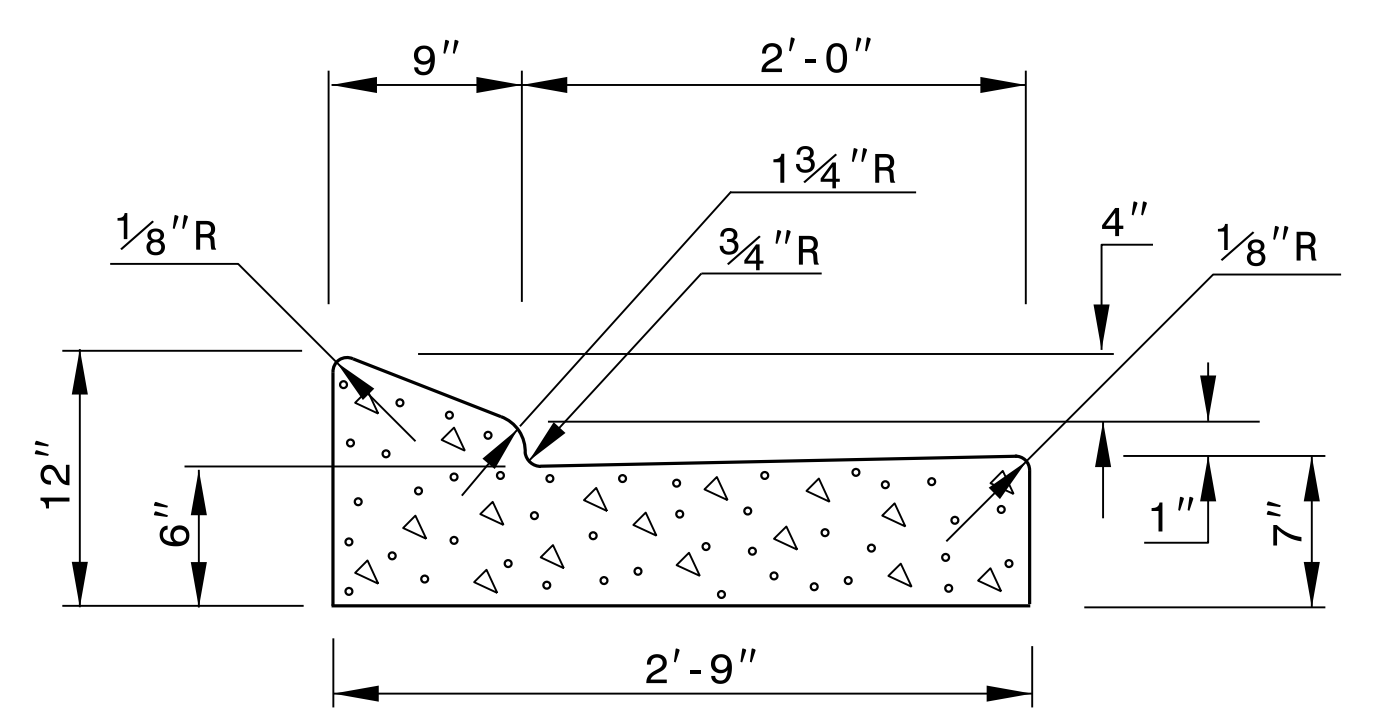
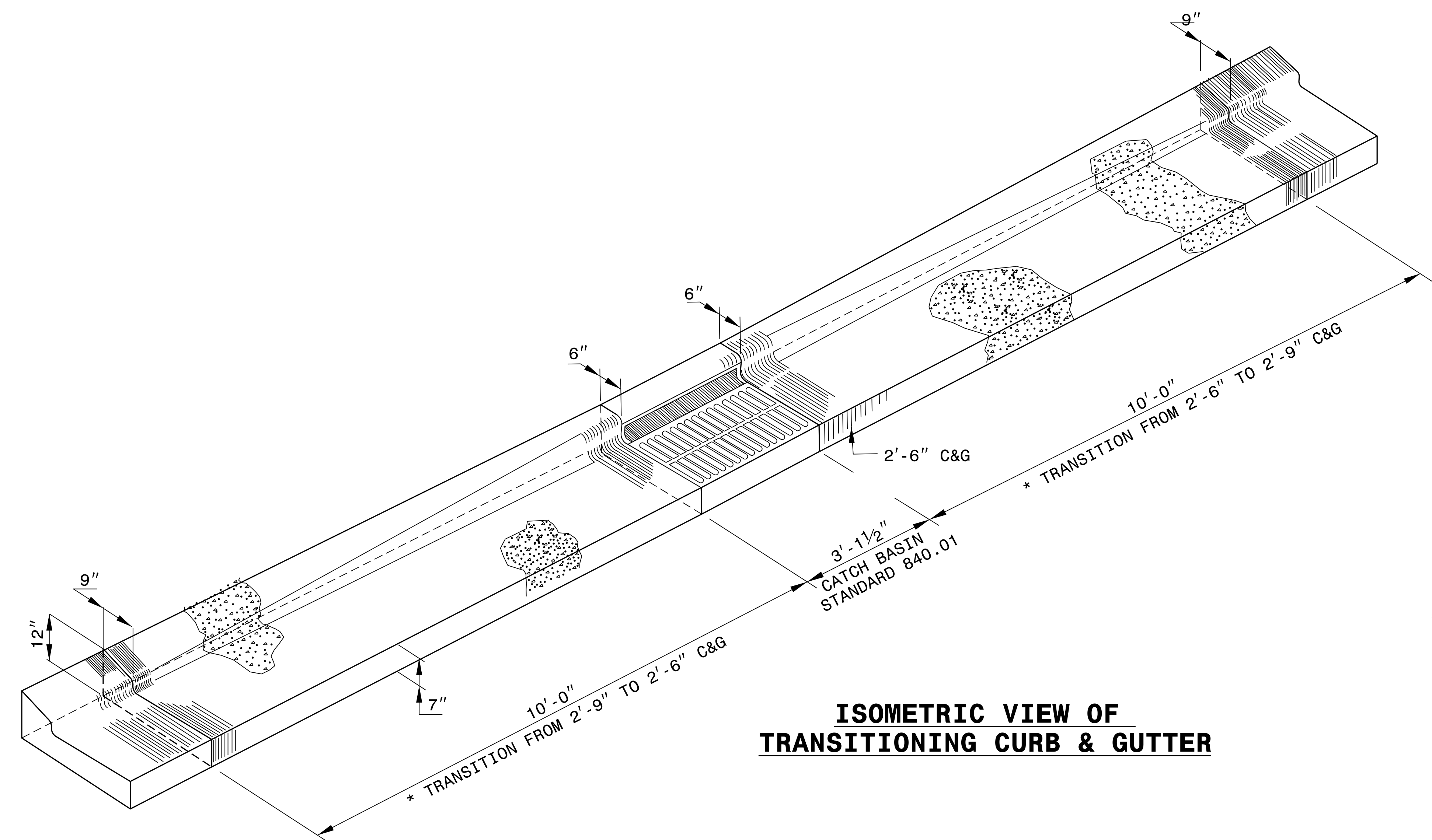


- PROP. MONOLITHIC CONC. ISLAND (KEYED IN)
- ★ PROPOSED TRAFFIC SIGNAL

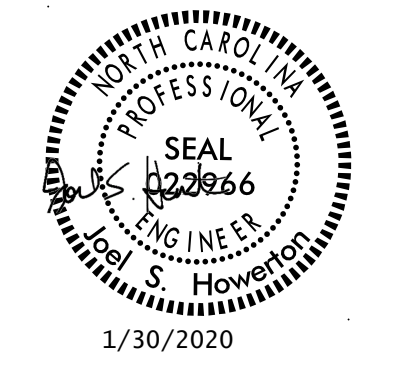
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 USER: SPEREIRA
 FILE: NorthCarolinaDept.of.Transportation\NCDOT\Western.Div.Or-Coll.M.\NCDOT-U2714.US117.c.\6.0.CAD.BIM.6.2.Work.In_Progress\U-2714.NCDOT_File_Structure\Roadway\Proj\U2714.RDY_PSH2B07.dgn
 PENTABLE: NCDOT_pshpfl.tbl
 TIME: 11:01:03 AM
 DATE: 12/9/2019

REVISIONS

NOTE: SEE STD.DWG. 846.01 FOR
2'-6" CURB AND GUTTER
INFORMATION.



* MAINTAIN THE EDGE OF PAVEMENT. TRANSITION THE CURB ALONG THE BACK OF THE CURB.



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

**CATCH BASIN IN
2'-9" CURB AND GUTTER**

ORIGINAL BY: _____ DATE: _____
 MODIFIED BY: tspell DATE: july 14,2009
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: s:eric/usr/details/stand/cqtranst.dgn

22-OCT-2019 07:30 S:\Contracts\Contractors\Special Details\ericward\usr\details\stand\c&g transition sections.dgn .jhowerton AT USD-292595

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

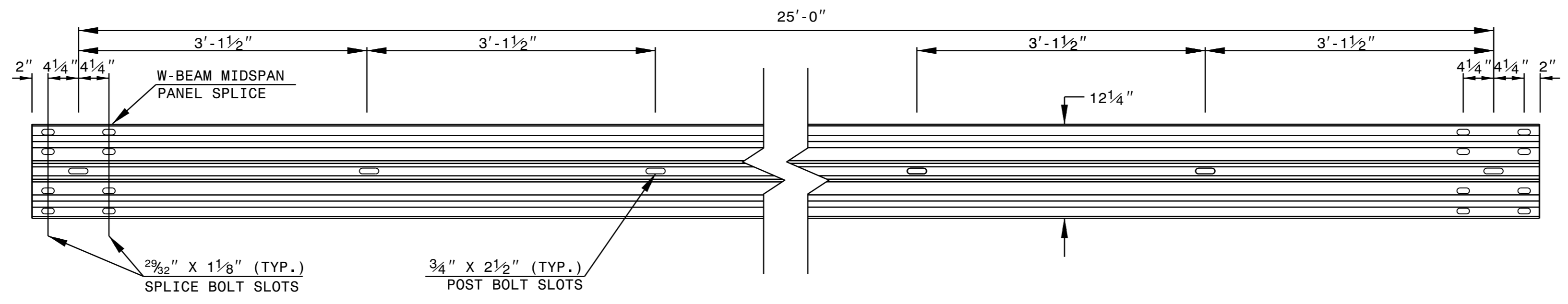
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02

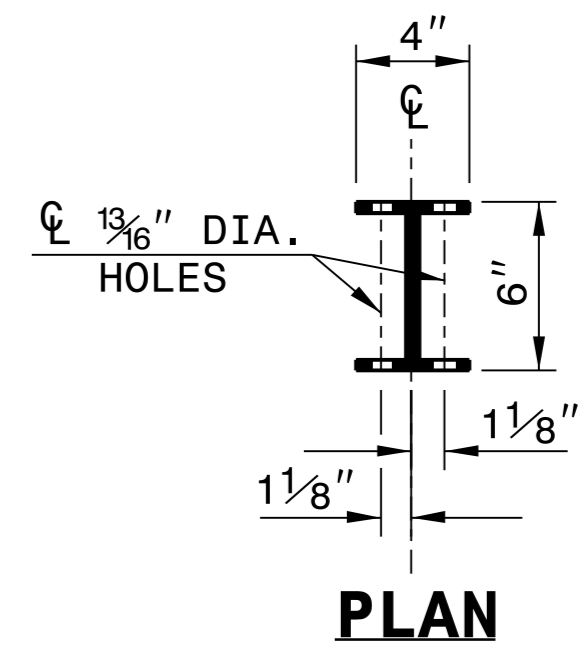
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

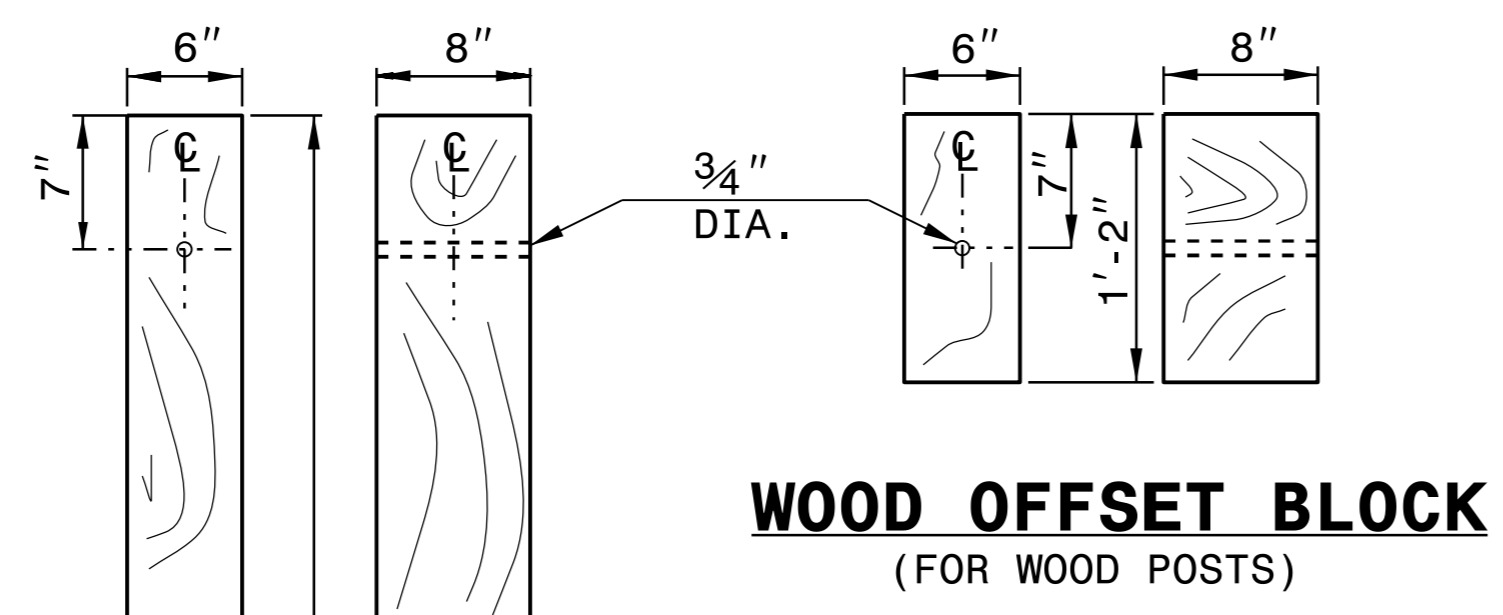
SHEET 6 OF 8
862D02



STANDARD W-BEAM GUARDRAIL



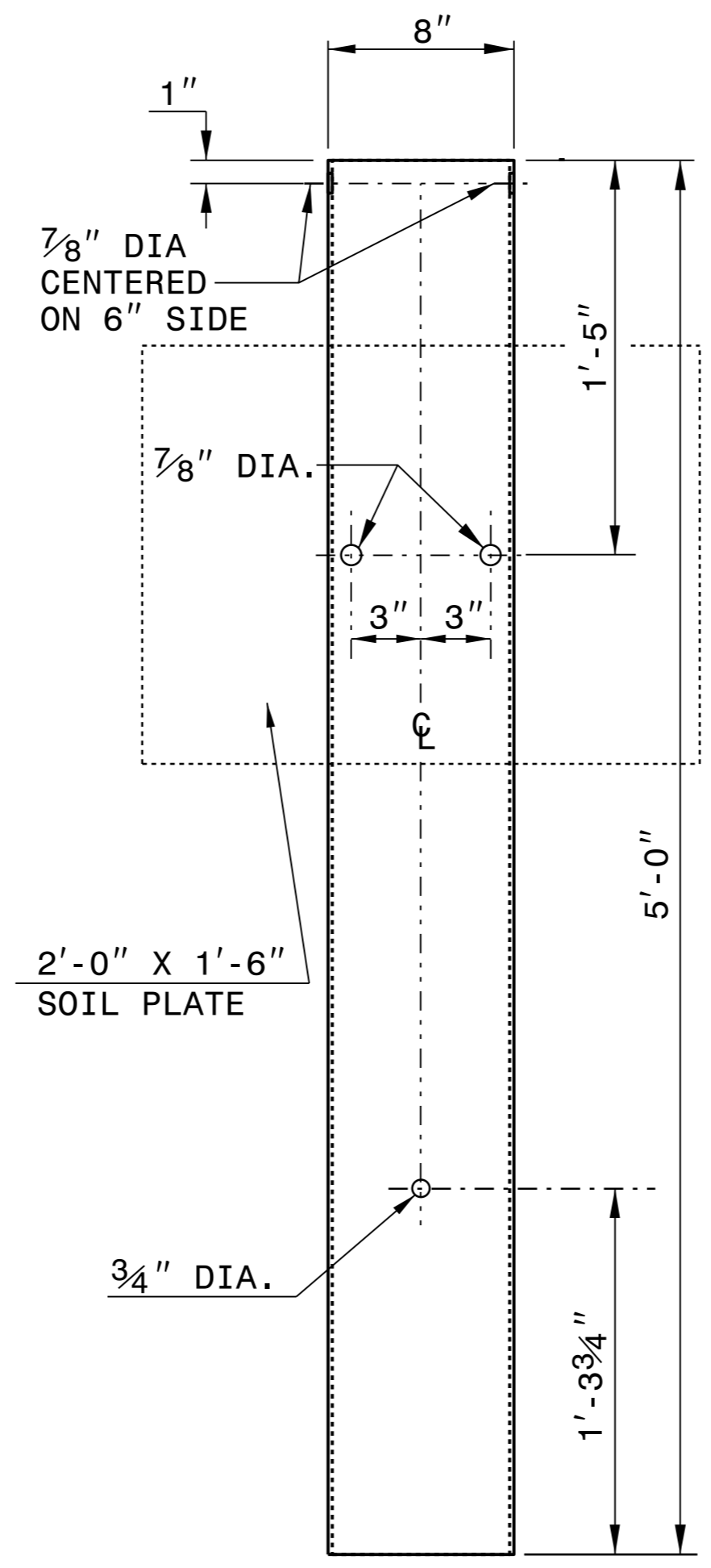
PLAN



**WOOD OFFSET BLOCK
(FOR WOOD POSTS)**

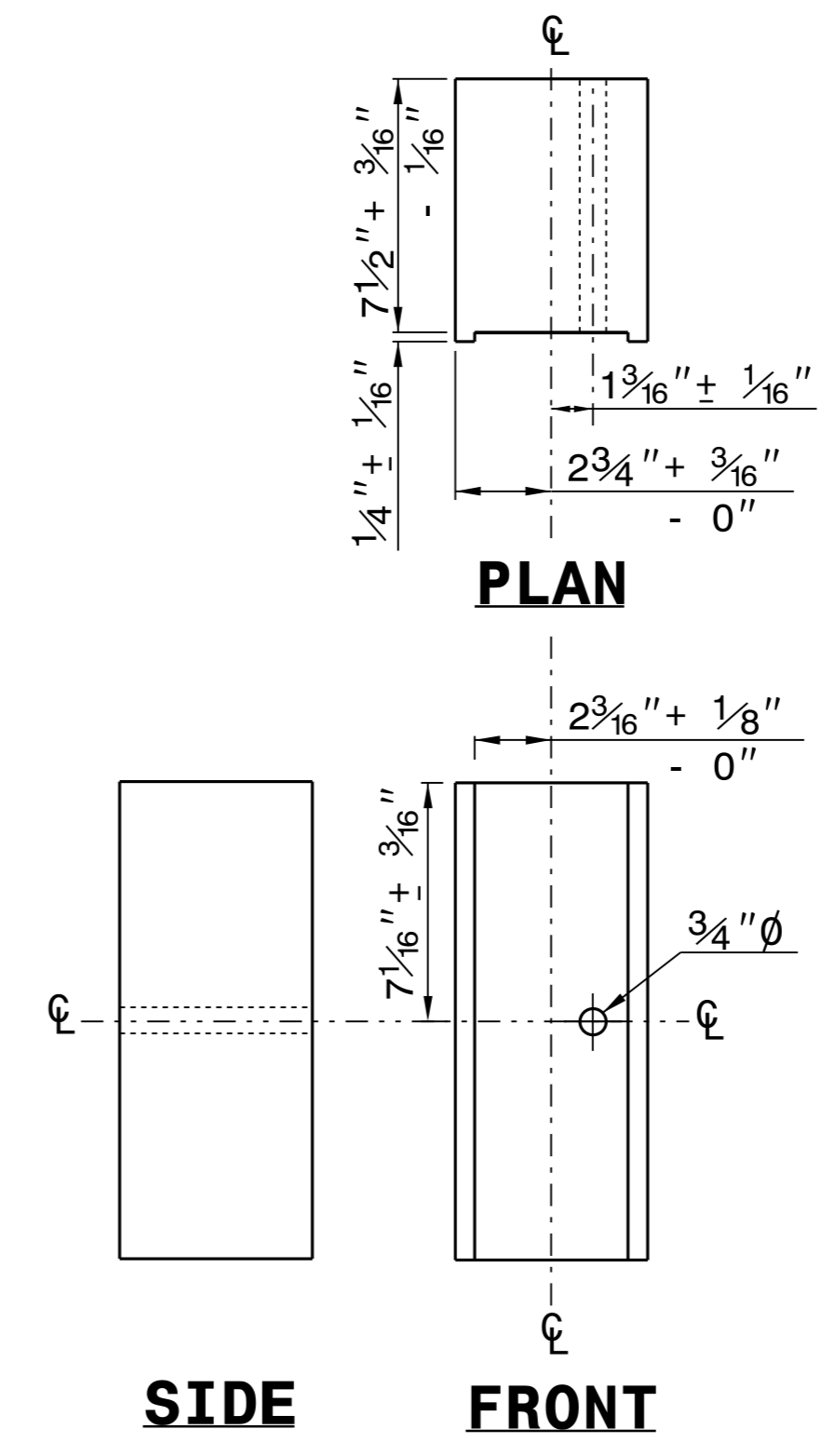
**STANDARD
LINE POST**

**SHORT WOOD
BREAKAWAY POST**



**STEEL TUBE
TS 6"x8"x0.1875"**

SYSTEM PARTS

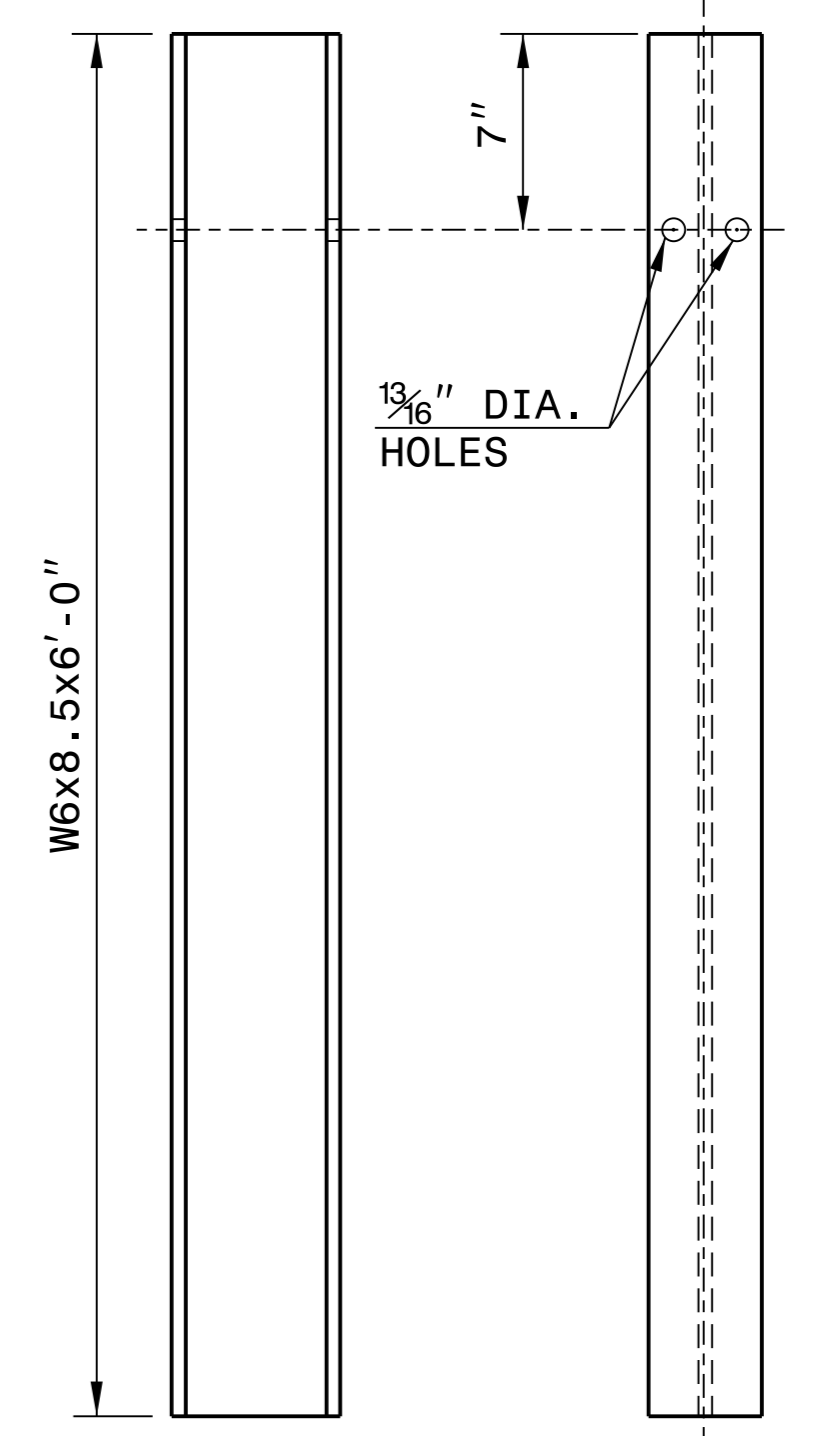


PLAN

SIDE

FRONT

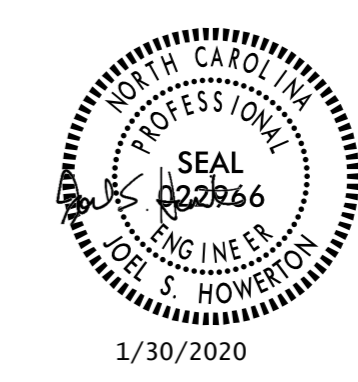
**ROUTED
OFFSET BLOCK**



SIDE

FRONT

"W6" STEEL POST

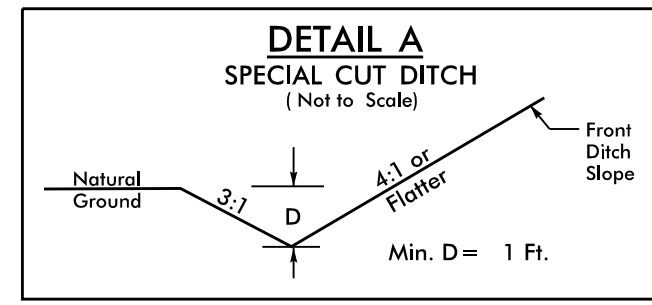


**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

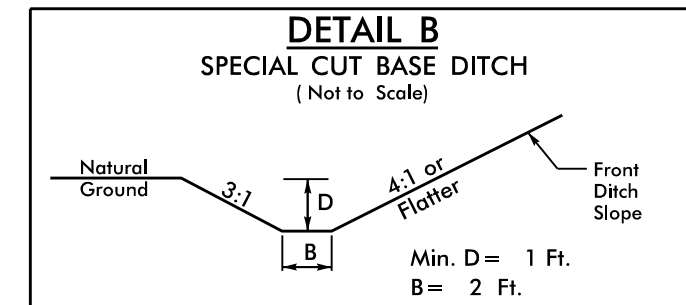
SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 3-7-2018
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC.: _____

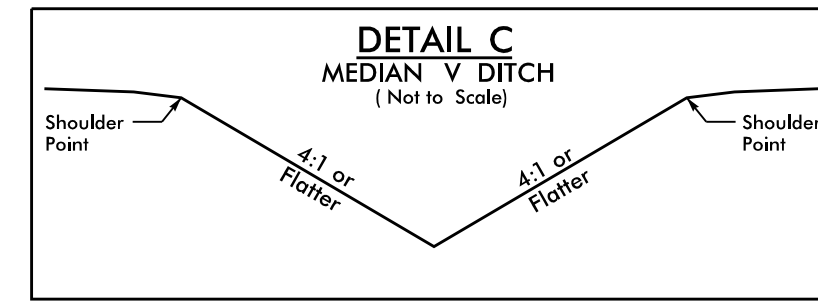
PROJECT REFERENCE NO. U-2714	SHEET NO. 2D-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



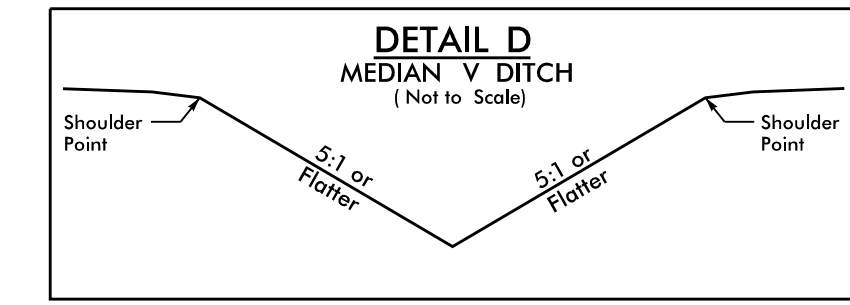
FROM STA. 13+25 -Y4- TO STA. 17+50 -Y4- RT
 FROM STA. 11+00 -Y8- TO STA. 12+30 -Y8- LT
 FROM STA. 79+60 -L- TO STA. 81+60 -L- LT



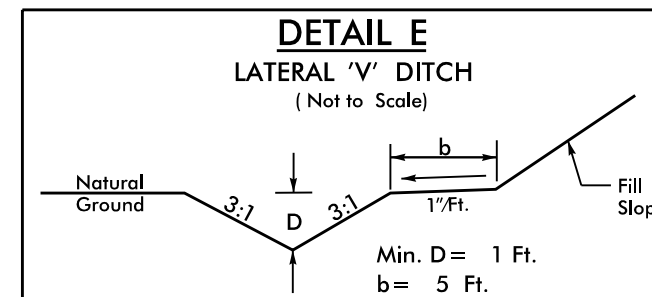
FROM STA. 14+20 -Y4- TO STA. 16+00 -Y4- LT
 FROM STA. 12+30 -Y8- TO STA. 14+10 -Y8- LT



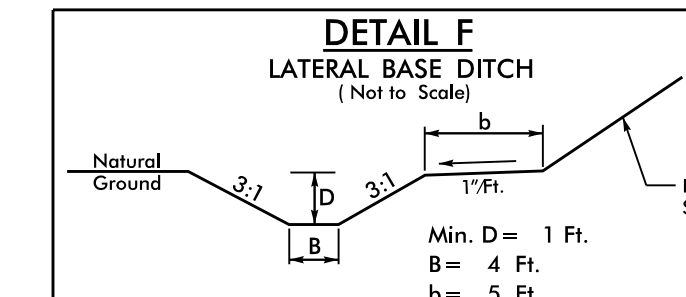
FROM STA. 12+80 -Y4- TO STA. 15+50 -Y4- M



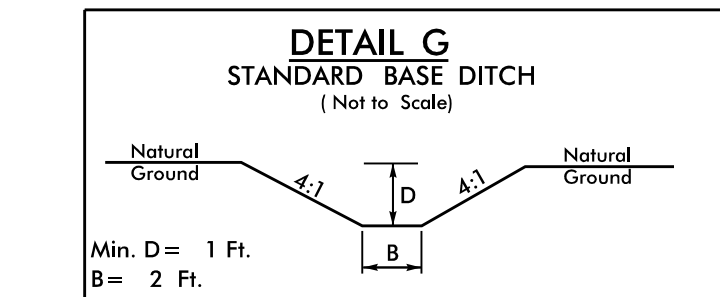
FROM STA. 12+50 -Y4- TO STA. 12+80 -Y4- M



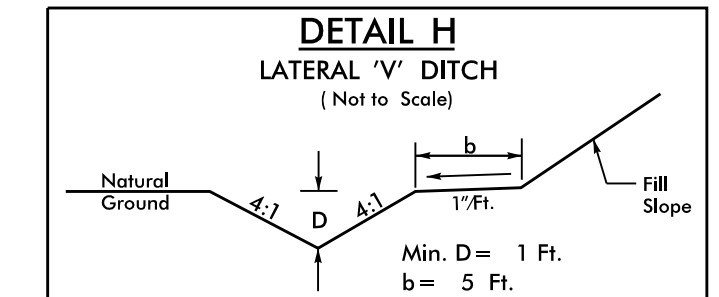
FROM STA. 46+00 -L- TO STA. 47+00 -L- LT



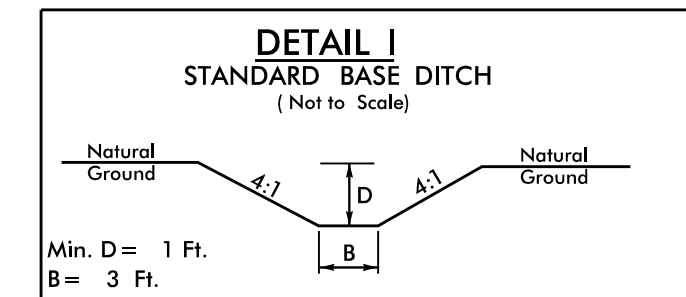
FROM STA. 11+26 -Y5- TO STA. 12+19 -Y5- RT
 FROM STA. 75+80 -L- TO STA. 78+60 -L- LT
 FROM STA. 84+00 -L- TO STA. 87+42 -L- LT



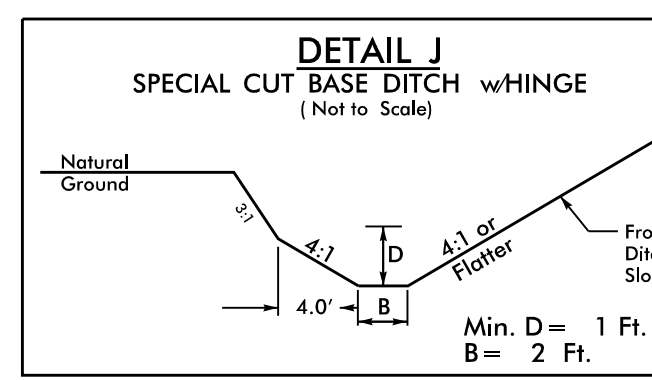
FROM STA. 10+50 -Y6- RT, SLOPE=0.32%



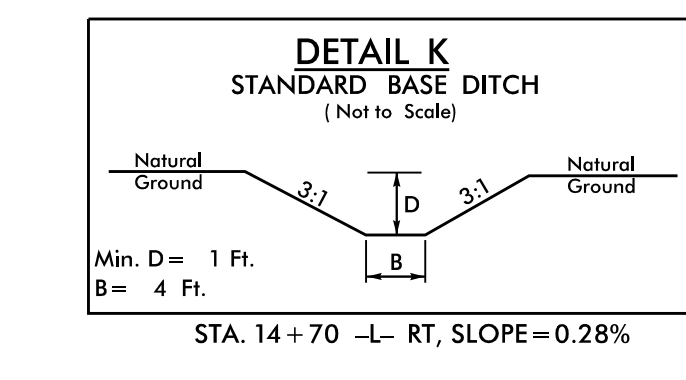
FROM STA. 10+75 -Y9- TO STA. 11+00 -Y9- RT



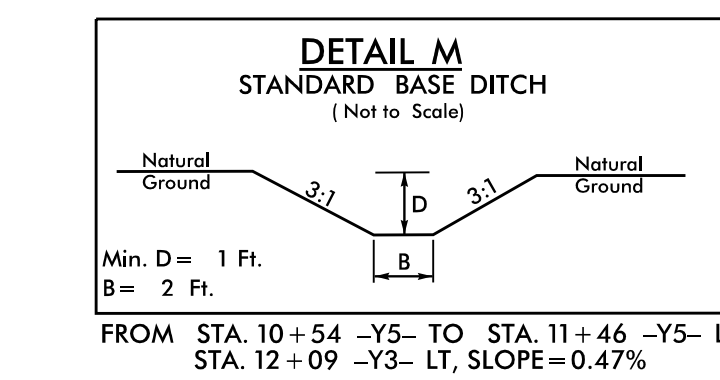
FROM STA. 62+74 -L- TO STA. 62+75 -L- RT



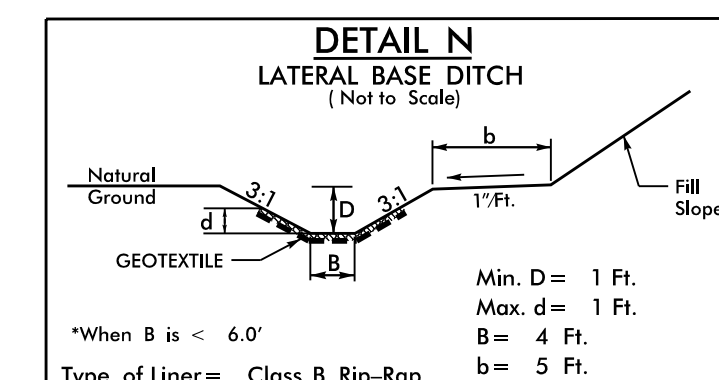
FROM STA. 11+78 -Y7- TO STA. 14+00 -Y7- RT



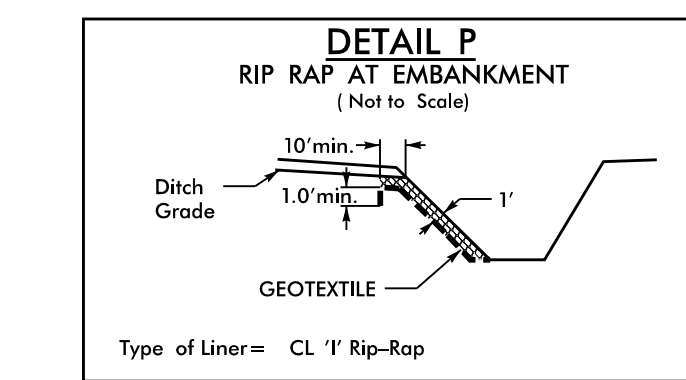
STA. 14+70 -L- RT, SLOPE=0.28%



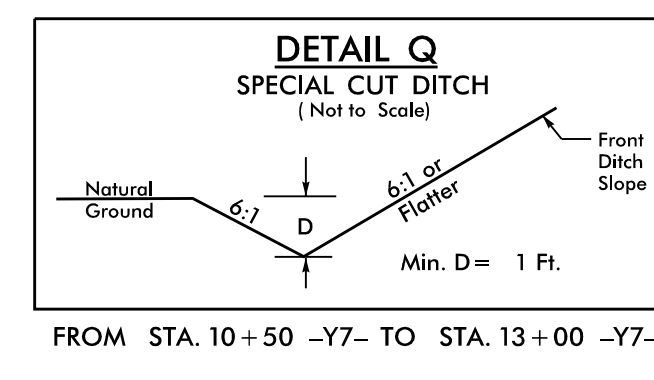
FROM STA. 10+54 -Y5- TO STA. 11+46 -Y5- LT
 STA. 12+09 -Y3- LT, SLOPE=0.47%



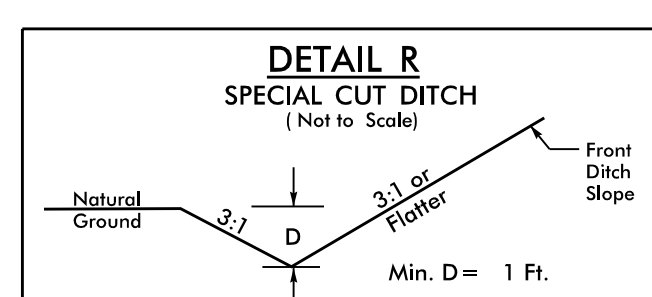
FROM STA. 75+00 -L- TO STA. 75+35 -L- LT



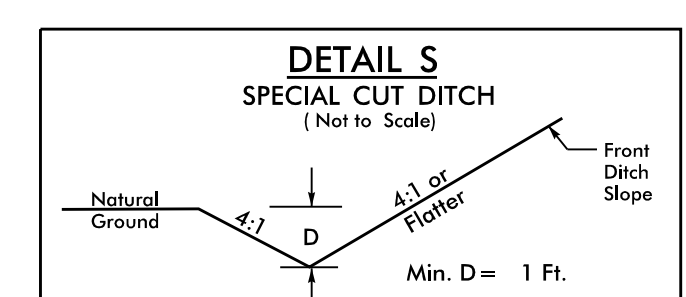
STA. 75+56 -L- LT



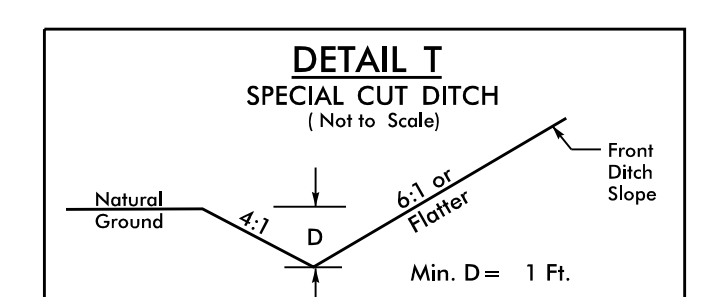
FROM STA. 10+50 -Y7- TO STA. 13+00 -Y7- LT



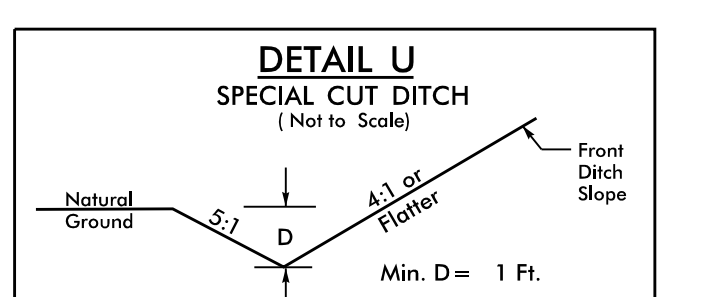
FROM STA. 11+50 -Y6- TO STA. 12+00 -Y6- LT



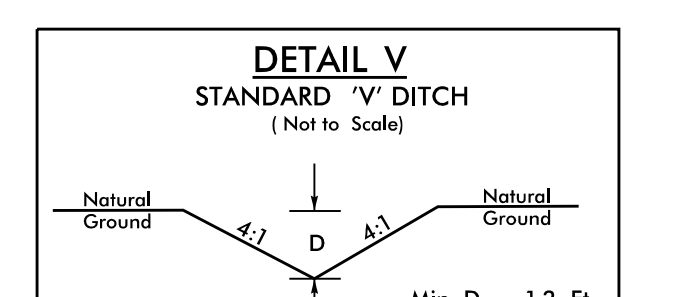
FROM STA. 10+50 -Y6- TO STA. 16+50 -Y6- RT
 FROM STA. 12+00 -Y6- TO STA. 16+50 -Y6- LT
 FROM STA. 13+00 -Y7- TO STA. 13+80 -Y7- LT
 FROM STA. 13+80 -Y7- TO STA. 14+00 -Y7- LT
 FROM STA. 10+59 -Y9- TO STA. 11+60 -Y9- LT



FROM STA. 10+50 -Y7- TO STA. 11+78 -Y7- RT



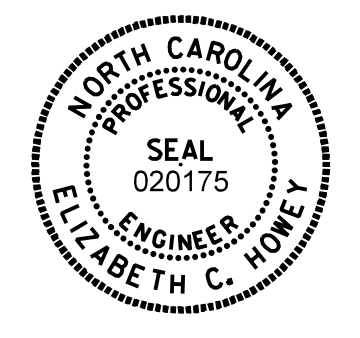
FROM STA. 13+00 -Y8- TO STA. 13+50 -Y8- RT



FROM STA. 45+59 -L- TO STA. 46+00 -L-

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPHERE
 DATE: 12/9/2019
 TIME: 11:25:55 AM
 FILE: North Carolina Dept. of Transportation\NCDOT\Western Div. On-Call\M. NCDOT-U2714-US117.cad\NCDOT-U2714-US117.cad\NCDOT-U2714-US117.cad\Hydraulic\Hydraulic\CADD\U2714-HYD-DETAILS.dgn

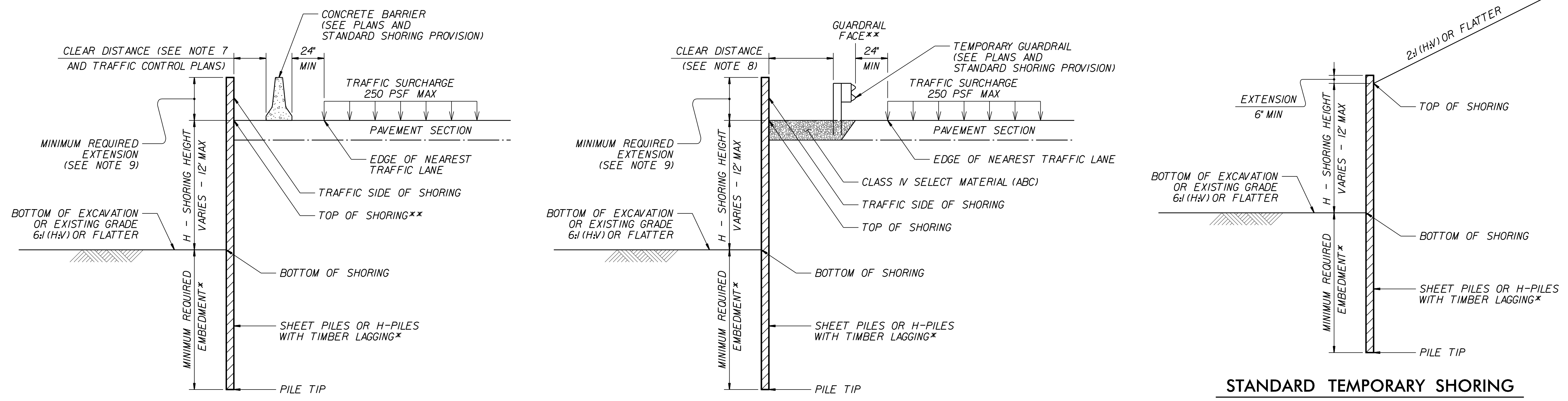
PROJECT REFERENCE NO. U-2714	SHEET NO. 2G-1
GEOTECHNICAL ENGINEER  SIGNATURE: Elizabeth C. Rowley DATE: 1/30/2020	ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GROUNDWATER CONDITION (SEE NOTE 6)	H SHORING HEIGHT (FT)	SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT						SURCHARGE CASE WITH TRAFFIC IMPACT					
		SHEET PILES		H-PILES WITH TIMBER LAGGING				SHEET PILES		H-PILES WITH TIMBER LAGGING			
		MINIMUM REQUIRED EMBEDMENT (FT)	MINIMUM REQUIRED SECTION MODULUS (IN ³ /FT)	MINIMUM REQUIRED EMBEDMENT* (FT) (SEE NOTE 10)			MINIMUM REQUIRED EMBEDMENT (FT)	MINIMUM REQUIRED SECTION MODULUS (IN ³ /FT)	MINIMUM REQUIRED EMBEDMENT* (FT) (SEE NOTE 10)				
				HP 10x42	HP 12x53	HP 14x73			HP 10x42	HP 12x53	HP 14x73		
GROUNDWATER ELEVATION BETWEEN BOTTOM OF SHORING AND PILE TIP	< 6	11.5	4.5	11.5	11.5	11.5	16.0	12.0	13.0	13.0	13.0		
	7	13.0	7.0	13.0	13.0	13.0	17.0	14.5	14.5	14.5	14.5		
	8	15.0	10.0	--	15.0	15.0	18.0	17.0	--	15.5	15.5		
	9	17.0	14.0	--	17.0	17.0	19.0	20.0	--	17.0	17.0		
	10	18.5	19.5	--	--	18.5	20.0	23.5	--	--	18.5		
	11	20.5	26.0	--	--	--	21.0	28.0	--	--	20.0		
GROUNDWATER ELEVATION BELOW PILE TIP	< 6	7.5	3.0	8.0	8.0	8.0	11.0	10.0	9.5	9.5	9.5		
	7	8.5	4.5	9.5	9.5	9.5	12.0	12.0	10.5	10.5	10.5		
	8	10.0	6.5	10.5	10.5	10.5	12.5	14.0	11.5	11.5	11.5		
	9	11.0	9.5	--	12.0	12.0	13.5	16.5	--	12.5	12.5		
	10	12.5	13.0	--	--	13.5	14.0	19.5	--	13.5	13.5		
	11	13.5	17.0	--	--	14.5	15.0	22.5	--	--	14.5		
12	15.0	21.5	--	--	16.0	16.0	25.5	--	--	15.5			

- NOTES:**
- AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY SHORING AS NOTED IN THE PLANS.
 - FOR STANDARD TEMPORARY SHORING, SEE STANDARD SHORING PROVISION.
 - STANDARD TEMPORARY SHORING IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, $\gamma = 120$ PCF
FRICTION ANGLE, $\phi = 30$ DEGREES
COHESION, $c = 0$ PSF
 - DO NOT USE STANDARD TEMPORARY SHORING IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
 - DO NOT USE STANDARD TEMPORARY SHORING WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS WITHIN THE EMBEDMENT DEPTH.
 - USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS, USE "GROUNDWATER ELEVATION BETWEEN BOTTOM OF SHORING AND PILE TIP" FOR GROUNDWATER CONDITION. DO NOT USE STANDARD TEMPORARY SHORING IF GROUNDWATER IS ABOVE BOTTOM OF SHORING.
 - AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN THE MINIMUM REQUIRED FOR CONCRETE BARRIER, SET BARRIER NEXT TO AND UP AGAINST TRAFFIC SIDE OF PILES AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
 - AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN 4' FOR TEMPORARY GUARDRAIL, ATTACH GUARDRAIL TO TRAFFIC SIDE OF PILES AS SHOWN IN THE PLANS AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
 - MINIMUM REQUIRED EXTENSION IS 6' FOR "SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT" AND 32' FOR "SURCHARGE CASE WITH TRAFFIC IMPACT".
 - MINIMUM REQUIRED EMBEDMENT FOR H-PILES WITH TIMBER LAGGING IS BASED ON DRIVEN H-PILES AT MAXIMUM 6' SPACING. AT THE CONTRACTOR'S OPTION, EMBEDMENT DEPTHS MAY BE REDUCED BY 25% FOR DRILLED-IN H-PILES.
 - SUBMIT A "STANDARD TEMPORARY SHORING SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY SHORING CONSTRUCTION. UP TO 3 SHORING LOCATIONS MAY BE INCLUDED ON EACH FORM. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM:
connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
 - CONTACT THE ENGINEER IF PILES DO NOT ATTAIN THE MINIMUM REQUIRED EMBEDMENT.

MINIMUM REQUIRED EMBEDMENT AND SECTION MODULUS

***DO NOT USE H-PILES WITH TIMBER LAGGING FOR GROUNDWATER CONDITION, SHORING HEIGHT AND H-PILE SIZE SHOWN IF MINIMUM REQUIRED EMBEDMENT IS "--".**

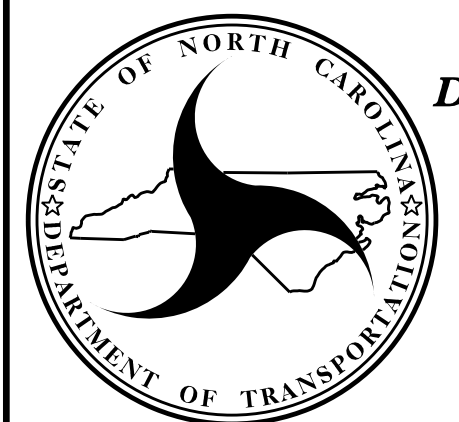


CONCRETE BARRIER
**TOP OF SHORING = EDGE OF PAVEMENT

TEMPORARY GUARDRAIL
**GUARDRAIL FACE = EDGE OF PAVEMENT

STANDARD TEMPORARY SHORING (SLOPE CASE)
*SEE TABLE ABOVE.

STANDARD TEMPORARY SHORING (SURCHARGE CASE)
*SEE TABLE ABOVE.

 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL ENGINEERING UNIT	STANDARD DETAIL NO. 1801.01
	STANDARD TEMPORARY SHORING DATE: 11-19-13

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- Sta. 10+00.00 LT	-L- Sta. 23+50.00 LT	94	689	595	0
-Y2- Sta. 11+15.00 RT	-Y2- Sta. 12+50.00 RT	36	46	10	0
SUBTOTAL		130	735	605	0
-L- Sta. 10+00.00 RT	-L- Sta. 13+00.00 RT	48	73	25	0
-Y1- Sta. 11+00.00 RT	-Y1- Sta. 11+50.00 RT	5	15	10	0
SUBTOTAL		53	88	35	0
-L- Sta. 13+00.00 RT	-L- Sta. 42+00.00 RT	164	12,814	12,650	0
-Y1- Sta. 11+00.00 LT	-Y1- Sta. 11+50.00 LT	3	19	16	0
-Y3- Sta. 10+50.00	-Y3- Sta. 13+50.00	147	1,216	1,069	0
-Y6- Sta. 11+00.00 RT	-Y6- Sta. 16+50.00 RT	639	183	0	456
SUBTOTAL		953	14,232	13,735	456
-L- Sta. 23+50.00 LT	-L- Sta. 42+00.00 LT	107	996	889	0
-Y2- Sta. 11+15.00 LT	-Y2- Sta. 12+50.00 LT	9	55	46	0
-Y4- Sta. 12+50.00 RT	-Y4- Sta. 20+50.00 RT	822	419	0	403
SUBTOTAL		938	1,470	935	403
-L- Sta. 42+00.00 LT	-L- Sta. 47+50.00 LT	39	228	189	0
-Y4- Sta. 12+50.00 LT	-Y4- Sta. 20+50.00 LT	206	2,549	2,343	0
-Y5- Sta. 11+00.00	-Y5- Sta. 16+50.00	62	2,679	2,617	0
SUBTOTAL		307	5,456	5,149	0
-Y4- Sta. 12+50.00 MED	-Y4- Sta. 15+00.00 MED	21	241	220	0
SUBTOTAL		21	241	220	0
-L- Sta. 47+50.00 LT	-L- Sta. 58+00.00 LT	4	4,613	4,609	0
-Y7- Sta. 10+50.00 RT	-Y7- Sta. 14+00.00 RT	687	103	0	584
SUBTOTAL		691	4,716	4,609	584
-L- Sta. 42+00.00 RT	-L- Sta. 68+50.00 RT	333	1,969	1,636	0
-Y6- Sta. 11+00.00 LT	-Y6- Sta. 16+50.00 LT	200	103	0	97
-Y8- Sta. 10+50.00 RT	-Y8- Sta. 14+10.00 RT	108	154	46	0
SUBTOTAL		641	2,226	1,682	97

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- Sta. 58+00.00 LT	-L- Sta. 79+00.00 LT	214	7,666	7,452	0
-Y7- Sta. 10+50.00 LT	-Y7- Sta. 14+00.00 LT	220	89	0	131
-DR1- Sta. 10+50.00	-DR1- Sta. 11+00.00	26	3	0	23
-Y9- Sta. 10+50.00 LT	-Y9- Sta. 11+50.00 LT	52	59	7	0
SUBTOTAL		512	7,817	7,459	154
-L- Sta. 68+50.00 RT	-L- Sta. 91+00.00 RT	96	3,704	3,608	0
-Y8- Sta. 10+50.00 LT	-Y8- Sta. 14+10.00 LT	182	48	0	134
SUBTOTAL		278	3,752	3,608	134
-L- Sta. 79+00.00 LT	-L- Sta. 91+00.00 LT	154	2,115	1,961	0
-Y9- Sta. 10+50.00 RT	-Y9- Sta. 11+50.00 RT	5	21	16	0
SUBTOTAL		159	2,136	1,977	0
-L- Sta. 14+00.00 MED	-L- Sta. 22+00.00 MED	213	144	0	69
-L- Sta. 32+00.00 MED	-L- Sta. 36+50.00 MED	99	10	0	89
-L- Sta. 45+50.00 MED	-L- Sta. 50+00.00 MED	33	215	182	0
-L- Sta. 72+50.00 MED	-L- Sta. 86+50.00 MED	135	604	469	0
SUBTOTAL		480	973	651	158
TOTAL		5,163	43,842	40,665	1,986
MATERIAL FOR SHOULDER CONSTRUCTION			350	350	
WASTE IN LIEU OF BORROW				-1,986	-1,986
LOSS DUE TO CLEARING & GRUBBING		-500		500	
PROJECT TOTALS:		4,663	44,192	39,529	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				1,976	
GRAND TOTALS:		4,663	44,192	41,505	0
SAY:		5,000		42,000	

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.

COMPUTED BY: GEOTECH DATE: 6/30/16
 CHECKED BY: CEH DATE: 12/3/19

(4-21-15)

PROJECT NO.	SHEET NO.
U-2714	3G-1

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

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
CONTINGENCY			ASU	12"	500	1000	1500		
TOTAL CY/TONS/SY:					500	1000	1500*	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.

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				UD	4000
TOTAL LF:					4000

*UD = Underdrain

*BD = Blind Drain

*SD = Subsurface Drain

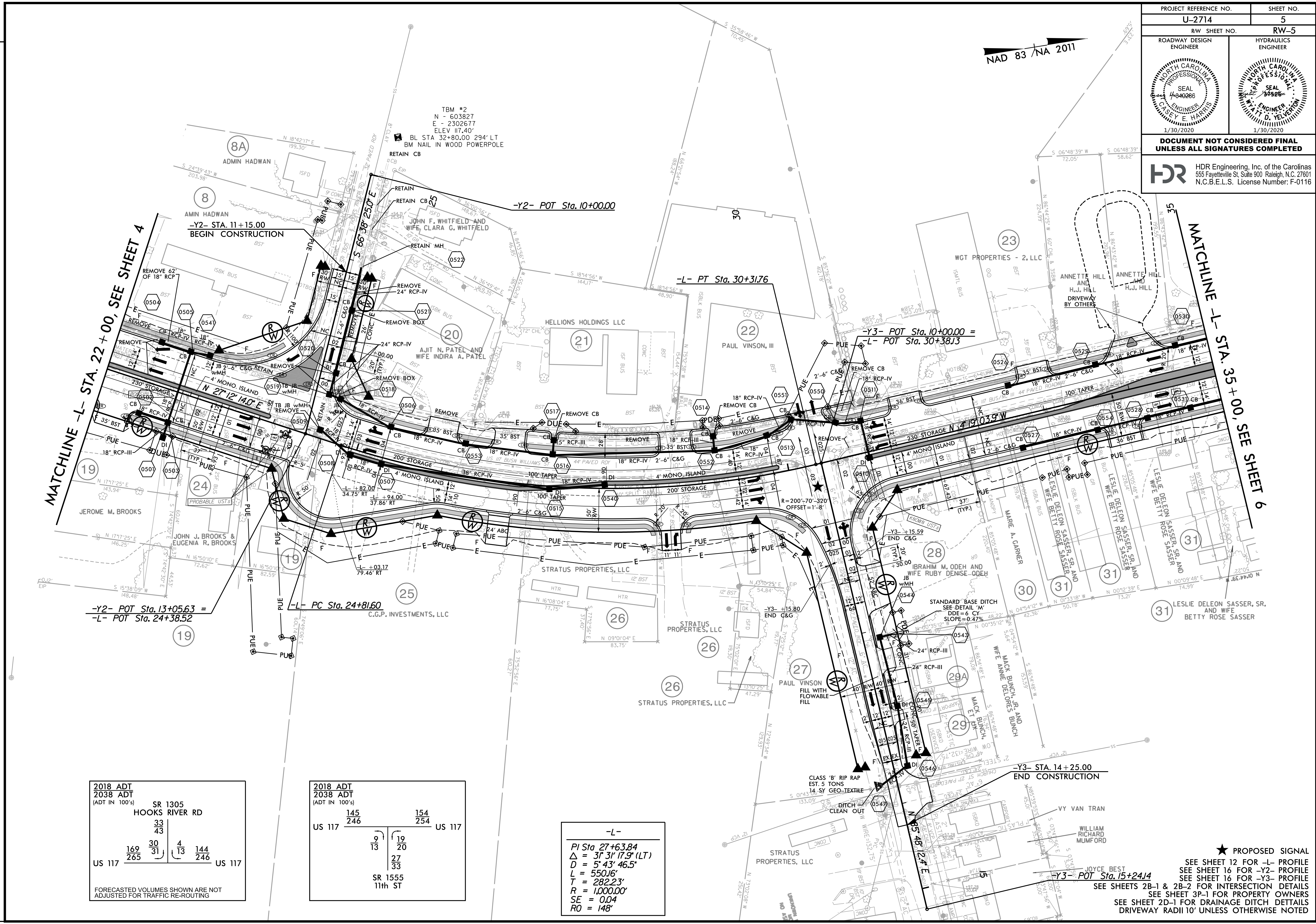
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**PARCEL INDEX SHEET**

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK/PAGE No.
1	4	MKS INVESTMENTS, LLC	DB 2665 - PG 307 PC H PG 134
2	4	NEW SPIRIT CHURCH MINISTRIES	DB 2082 - PG 385 PC H PG 134
3	4	GENERAL INDUSTRIES, INC.	DB 1312 - PG 509, DB 850 - PG 702, DB 808 PG 171, DB 808 - PG 169
4	4	SAMAR N. ELAWAR	DB 2560 - PG 14
5	4	KORNEGAY PROPERTIES & INVESTMENTS, LLC	DB 3072 - PG 652, BM 1 - PG 119
6	4, 5	JEWEL NELSON	DB 4E - PG 310, DB 809 - PG 437, DB 880 - PG 238, DB 885 - PG 886, DB 893 - PG 874, DB 906 - PG 214, DB 1524 PG 436, DB 882 - PG 704
7	4	PAULA B. SMITH	DB 1100 - PG 446, BM 1 - PG 119
8	4	AMIN HADWAN	DB 3220, PG 303
8A	4	ADMIN HADWAN	DB 3220, PG 303
9	4	KORNEGAY PROPERTIES & INVESTMENTS, LLC	DB 3045 - PG 895
10	4	JAMES ROYSTER CAPP	DB 2065 - PG 204, BM 3 - PG 15
11	4	JAMES ROYSTER CAPP	DB 2065 - PG 204, BM 3 - PG 15
12	4	WIFE CLAUDIA KORNEGAY	DB 2763 - PG 511, CAB B - SLD 351
13	4	STEVEN B. ALLEN AND WIFE ANGELA A. ALLEN AND RODERICK DAVIS	DB 1832 - PG 599, DB 1818 - PG 441, BM 15 - PG 4
14	4	RODERICK DAVIS AND STEVEN B. ALLEN	DB 1819 - PG 582, BM 15 - PG 4
15	4	EDITH SMITH	DB 3212 - PG 277
16	4	MICHAEL KING	DB 3212 - PG 273
17	4	JEROME M. BROOKS	DB 2922 - PG 779, BM 15 - PG 4, DB 1384 - PG 786, BM 1 - PG 185, DB 1681 - PG 485
18	4	MICHEL H. THEVENIN	DB 3216 - PG 660
19	4, 5	JEROME M. BROOKS	DB 2922 - PG 779, BM 15 - PG 4, DB 1384 - PG 786, BM 1 - PG 185, DB 1681 - PG 485
20	5	AJIT N. PATEL AND WIFE INDIRA A. PATEL	DB 1287 - PG 57
21	5	HELLIONS HOLDINGS LLC	DB 3272 - PG 729
22	5	PAUL VINSON, III	DB 1090 - PG 666
23	5	WGT PROPERTIES - 2, LLC	DB 3116 - PG 513
24	5	JOHN J. BROOKS & EUGENIA R. BROOKS	DB 1275 - PG 301
25	5	C.G.P. INVESTMENTS, LLC	DB 3103 - PG 649
26	5	STRATUS PROPERTIES, LLC	DB 2261 - PG 500, BM 3 - PG 45
27	5	PAUL VINSON	DB 1990 - PG 516
28	5	IBRAHIM M. ODEH AND WIFE RUBY DENISE ODEH	DB 2622 - PG 176
29	5	MACK BUNCH, ET UX	DB 865 - PG 619, DB 1778 - PG 790
29A	5	MACK BUNCH, ET UX	DB 865 - PG 619, DB 1778 - PG 790
30	5	MARVIN S. GARNER AND WIFE MARIE A. GARNER	DB 1087 - PG 603
31	5	LESLIE DELEON SASSER, SR. AND WIFE BETTY ROSE SASSER	DB 2584 - PG 111, 114, 117, 120
32	6	SHERWIN HERRING FARMS, LLC	DB 2963 - PG 728, CAB K - SLD 37-E
33	6	SAROJ C. PATEL AND HIMANSU PATEL	DB 2638 - PG 642, CAB K - SLD 37-E
34	6	LYNDA M. UZZELL	DB 1707 - PG 413, CAB K - SLD 37-E
35	5, 6, 11	NBA DISCIPLES HOUSING OF GOLDSBORO, NC, INC	DB 1919 - PG 36, MB 6 - PG 143
36	5, 6, 11	NBA DISCIPLES HOUSING OF GOLDSBORO, NC, INC	DB 1919 - PG 36, MB 6 - PG 143
37	11	TRUSTEES OF GREENLEAF CHRISTIAN CHURCH	DB 1613 - PG 760
38	6, 11	Y & W REALTY COMPANY	DB 3162 - PG 725, CAB O - SLD 27B, CAB O - SLD 27C
39	6	EUGENE A. TAYLOR AND WIFE LILLIE W. TAYLOR	DB 2126 - PG 576
40	6	JAMES A. MOORING	DB 3165 - PG 653
41	6	BRT & ASSOCIATES, LLC	DB 2532 - PG 838, BM 6 - PG 143
42	6	LESLIE DELEON SASSER, SR.	DB 6E - PG 351, DB - 290 - PG 68, PC J - PG 392
43	6	TIMOTHY PEARSALL	DB 1084 - PG 352, PC J - PG 392
44	6	TRUSTEES OF GREENLEAF CHRISTIAN CHURCH	DB 824 - PG 470, DB 1182 - PG 263, DB 2177 - PG 739
45	6	CITY OF GOLDSBORO	DB 624 - PG 493
46	6	NEESE COUNTRY SAUSAGE, INC	DB 972 - PG 259
47	6	SOUTHERN DISTRICT CONVOCATION OF THE UNITED HOLY CHURCH OF AMERICA, INC	DB 1671 - PG 130
48	6	ISSAM A. AL-AWAR AND WIFE ROLA I. AL-AWAR	DB 1573 - PG 456, BM 5 - PG 130, PC I - PG 207
49	6	BON-RIC, LLP	DB 2887 - PG 565, BM 5 - PG 130
50	6	WEE ARE THE WORLD CHILD CARE, INC	DB 2467 - PG 273
51	6	RUBY S. GRIFFIN	DB 95E - PG 74, DB 795 - PG 216, DB 947 - PG 708, PB 6 - PG 5
52	6	DENNIS GRIFFIN & RUBY S. GRIFFIN	DB 2070 - PG 843, PB 6 - PG 5
53	6	ANNIE GREEN BYNUM, ET UX	DB 852 - PG 610, PB 6 - PG 5
54	6, 7	DENNIS L. GRIFFIN	DB 2886 - PG 780, DB 2980 - PG 712, BM 5 - PG 130
55	7	CARL BENJAMIN HILL, ET AL	DB 3E - PG 645, DB 1282 - PG 294, PC M - PG 35A
56	7	FARMERS WAREHOUSE OF GOLDSBORO, INC	DB 2253 - PG 280, PC M - PG 35A
57	7	HILLS BEEF AND PORK CENTER, INC	DB 2213 - PG 473, PC M - PG 35A
58	7	SIMON B. HILL HEIRS	DB 596 - PG 116, PC M - PG 35A

PROJECT REFERENCE NO.	SHEET NO.
U-2714	5
RW SHEET NO.	RW-5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116



2018 ADT
2038 ADT
(ADT IN 100's)

SR 1305 HOOKS RIVER RD			
	33		
	43		
169	30	4	144
265	31	13	246

US 117

FORECASTED VOLUMES SHOWN ARE NOT ADJUSTED FOR TRAFFIC RE-ROUTING

2018 ADT
2038 ADT
(ADT IN 100's)

145	154
246	254

US 117

9	19
13	20
27	33

SR 1555
11th ST

-L-

PI Sta 27+63.84
Δ = 3' 31" 17.9' (LT)
D = 5' 43" 46.5"
L = 550.16'
T = 282.23'
R = 1,000.00'
SE = 0.04
RO = 148'

PLOT DRIVER: NCDOT_color_eng_50.plt
USER: CHARRIS
FILE: North.Carolina.Dept.of.Transportation\NCDOT_Western.Div.Operations\NCDOT_U2714_US117.cad

PENTABLE: NCDOT_pshp.plt
DATE: 1/3/2020
TIME: 5:01:31 PM

REVISIONS

★ PROPOSED SIGNAL
SEE SHEET 12 FOR -L- PROFILE
SEE SHEET 16 FOR -Y2- PROFILE
SEE SHEET 16 FOR -Y3- PROFILE
SEE SHEETS 2B-1 & 2B-2 FOR INTERSECTION DETAILS
SEE SHEET 3P-1 FOR PROPERTY OWNERS
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED