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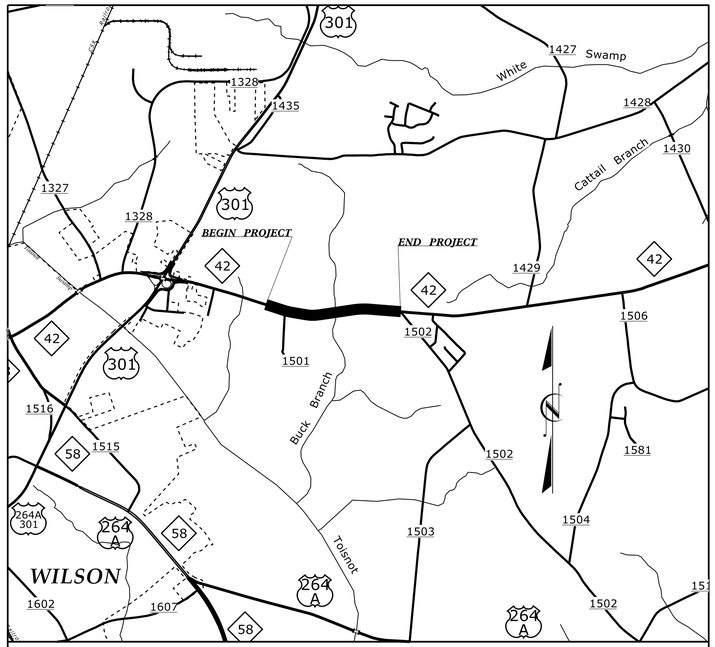
TIP PROJECT: W-5204C

CONTRACT: DD00296

See Sheet 1-A For Index of Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

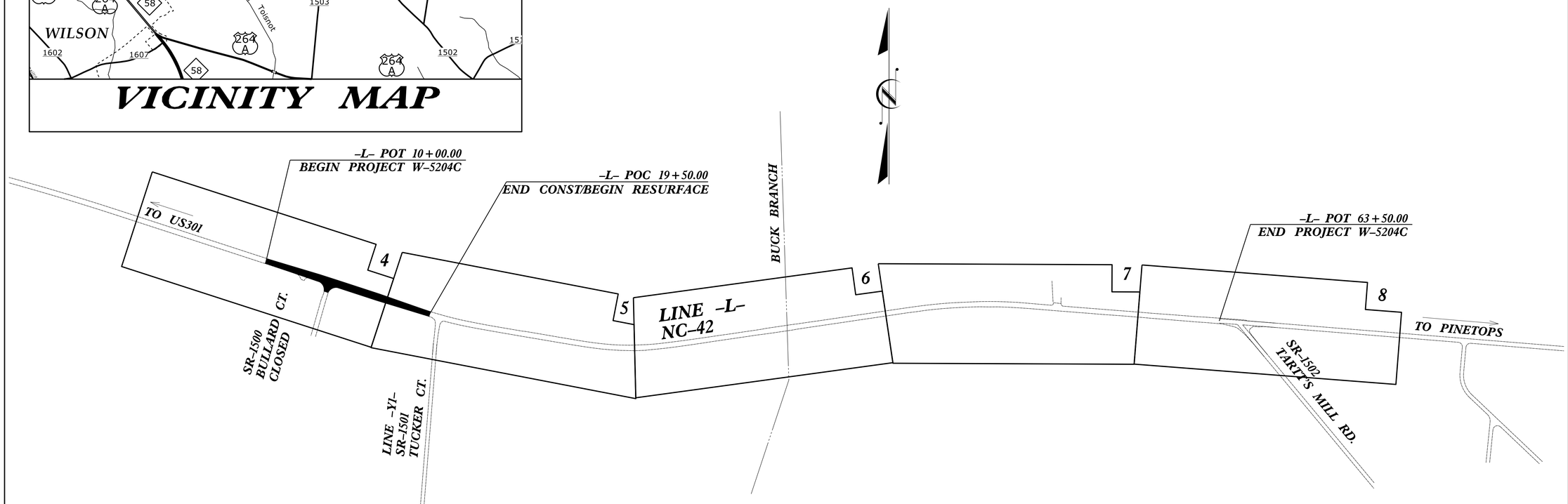
WILSON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5204C	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45334.1.3	HSIP-0042(53)	PE
45334.2.FR3	HSIP-0042(53)	R/W
45334.2.FRU3	HSIP-0042(53)	UTILITY
45334.3.3	HSIP-0042(53)	CONST

LOCATION: NC-42 FROM SR-1500 (BULLARD CT.) TO SR-1502 (TARTT'S MILL ROAD)

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING.



GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2017 = 6700
ADT =
DHV = %
D = %
T = % *
V = 60 MPH

* TTST DUAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5204C = 1.013 MILES
TOTAL LENGTH TIP PROJECT W-5204C = 1.013 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 9, 2015

LETTING DATE:
July 27, 2021

KEVIN G. BOWEN, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
5/10/2021
DocuSigned by:
Norwood A Gainey III
E0D8985 0A45044B...
SIGNATURE:
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
P.E.

ROADWAY DESIGN ENGINEER
5/10/2021
DocuSigned by:
Norwood A Gainey III
E0D8985 0A45044B...
SIGNATURE:
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
P.E.
STATE HIGHWAY DESIGN ENGINEER

10-MAY-2021 08:11
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$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5204C	1-A

ROADWAY DESIGN ENGINEER

7/6/2021

NORTH CAROLINA PROFESSIONAL SEAL 040774 ENGINEER NORWOOD A. GAINEY III

DocuSigned by:
Norwood A Gainey III
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-2	SURVEY CONTROL SHEET
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES - EARTHWORK, PARCEL INDEX, AND DRAINAGE SUMMARIES.
4 THRU 8	PLAN SHEET
TMP-1 THRU TMP-2	TRANSPORTATION MANAGEMENT PLANS
PM-1	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
UC-1 THRU UC-4	UTILITY CONSTRUCTION PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-6	CROSS-SECTIONS

2018 ROADWAY ENGLISH STANDARD DRAWINGS

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

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
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

GENERAL NOTES: 2018 SPECIFICATIONS

GRADE LINE:
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.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE:
SPECTRUM, CENTURYLINK, CITY OF WILSON (GAS), CITY OF WILSON (POWER) AND CITY OF WILSON (WATER&SEWER).

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

12/05/11

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	1-B

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- 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
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

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

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

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

7/2/99
6/2/99

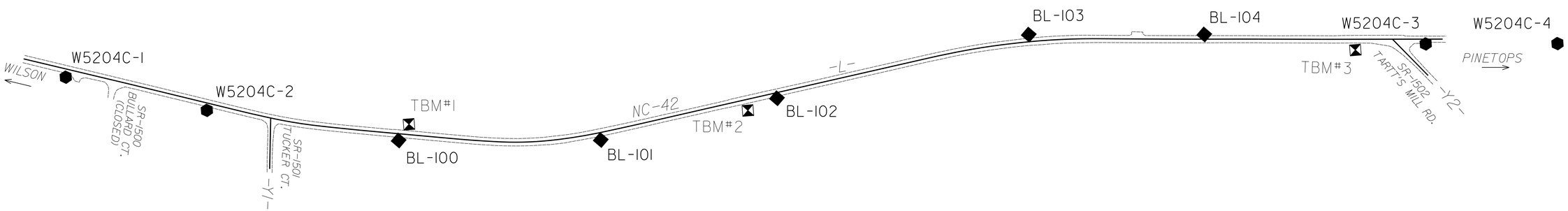
PROJECT REFERENCE NO.	SHEET NO.
W-5204C	1C-1
Location and Surveys	

SURVEY CONTROL SHEET W-5204-C

BL

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	W5204C-1	723429.4900	2336549.8550	128.51	11+77.61	31.56 RT
2	W5204C-2	723256.5160	2337092.5420	127.90	17+47.34	28.37 RT
100	BL-100	723080.0440	2337834.5310	112.35	25+07.30	26.58 RT
101	BL-101	723020.5120	2338626.5570	115.68	32+97.27	29.06 RT
102	BL-102	723130.5740	2339329.5910	102.86	40+08.27	21.65 RT
103	BL-103	723303.2110	2340335.2840	129.33	50+25.87	27.90 LT
104	BL-104	723250.3900	2341022.8790	119.22	57+13.25	18.30 LT
3	W5204C-3	723146.2320	2341887.7210	129.96	65+83.52	18.67 RT
4	W5204C-4	723107.4160	2342403.9940	129.72	OUTSIDE PROJECT LIMITS	

****
TBM#1 ELEVATION = 114.13
N 723140 E 2337880
L STATION 25+42.00 41 LEFT
RR SPIKE IN BASE OF 60" TWIN OAK
****
****
TBM#2 ELEVATION = 105.51
N 723091 E 2339212
L STATION 38+86.00 43 RIGHT
RR SPIKE IN BASE OF 36" SYCAMORE
****
****
TBM#3 ELEVATION = 130.37
N 723144 E 2341610
L STATION 63+07.00 42 RIGHT
RR SPIKE IN ROOT OF 36" OAK
****



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS W5204C-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 723256.516(ft) EASTING: 2337092.542(ft)
ELEVATION: 127.90(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999906917
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS W5204C-2" TO -L- STATION 10+00 IS
N69°51'56.83"W 747.80
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

NOTES:

1. *THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:*
   HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/

   THE FILES TO BE FOUND ARE AS FOLLOWS:
   W5204C_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.

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PROJECT REFERENCE NO.	SHEET NO.
W-5204C	1C-2
Location and Surveys	

SURVEY CONTROL SHEET W-5204-C

FINAL

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+00.00	30.00	723485.3649	2336381.2551
L	10+00.00	35.00	723480.6051	2336379.7241
L	10+00.00	-30.00	723542.4827	2336399.6279
L	10+00.00	-35.00	723547.2425	2336401.1589
L	13+00.00	-35.00	723455.3782	2336686.7498
L	13+64.71	35.00	723368.9264	2336726.9146
L	14+66.33	35.00	723337.6193	2336823.4016
L	14+86.50	45.00	723321.8419	2336839.4597
L	15+00.00	-45.00	723403.1771	2336880.2879
L	17+00.00	-35.00	723331.4638	2337067.2575
L	18+81.00	45.00	723199.1343	2337214.3915
L	18+81.00	-35.00	723275.1659	2337239.2751
L	19+77.52	50.00	723165.1200	2337306.0962
L	20+19.54	-35.00	723234.7582	2337370.5012
L	20+37.54	50.00	723148.0527	2337364.7078
L	21+85.42	35.00	723128.0242	2337515.3999
L	21+85.42	-35.00	723196.7581	2337528.6532
L	24+03.46	-35.00	723158.0801	2337742.4093
L	24+03.46	35.00	723089.0601	2337730.7368
L	26+50.00	35.00	723047.9499	2337973.8236
L	26+65.00	50.00	723030.6582	2337986.1151
L	27+00.00	50.00	723024.8219	2338020.6258
L	27+20.42	35.00	723036.2072	2338043.2592
L	27+20.42	-35.00	723105.2271	2338054.9316
L	29+02.50	35.00	723009.4812	2338224.8714
L	29+02.50	-35.00	723078.9378	2338233.5770
L	31+13.17	35.00	722999.6593	2338440.6357
L	31+13.17	-35.00	723069.6195	2338438.2765
L	33+14.91	35.00	723016.9565	2338645.1009
L	33+14.91	-35.00	723086.3188	2338635.6738
L	33+48.46	-35.00	723090.8371	2338668.9181
L	33+48.46	35.00	723021.4748	2338678.3452
L	34+90.26	35.00	723041.5316	2338819.1710
L	34+90.26	-35.00	723110.7678	2338808.8586
L	37+33.79	-35.00	723146.6447	2339049.7314
L	37+33.79	35.00	723077.4085	2339060.0438
L	38+40.93	-35.00	723162.3266	2339155.7972
L	38+40.93	35.00	723093.0684	2339165.9612
L	39+80.00	48.00	723100.3984	2339305.4398
L	39+80.00	-50.00	723197.3606	2339291.2150
L	39+80.00	-35.00	723182.5195	2339293.3930
L	39+80.00	35.00	723113.2607	2339303.5522
L	40+35.00	35.00	723121.2467	2339357.9693
L	40+35.00	48.00	723108.3845	2339359.8569
L	40+35.00	-35.00	723190.5056	2339347.8101
L	40+35.00	-50.00	723205.3466	2339345.6321
L	40+99.48	35.00	723130.6100	2339421.7712
L	40+99.48	-35.00	723199.8681	2339411.6072
L	41+49.42	35.00	723137.8905	2339471.2087
L	41+49.42	-35.00	723207.1384	2339460.9755
L	46+25.47	35.00	723207.4835	2339942.1444
L	46+25.47	-35.00	723276.7315	2339931.9112
L	47+78.59	-35.00	723295.9869	2340085.3502
L	47+78.59	35.00	723226.3576	2340092.5450
L	49+37.32	-35.00	723307.4578	2340245.8575
L	49+37.32	35.00	723237.5130	2340248.6376
L	49+65.29	-35.00	723308.5686	2340273.8054
L	49+65.29	35.00	723238.6238	2340276.5855
L	52+91.05	-35.00	723301.3984	2340603.5850
L	52+91.05	35.00	723231.6405	2340597.7675
L	54+47.55	-35.00	723288.3920	2340759.5436
L	54+47.55	35.00	723218.6342	2340753.7261
L	55+33.80	-35.00	723281.3559	2340845.4035
L	55+33.80	35.00	723211.5816	2340839.7865
L	56+64.66	-35.00	723270.8554	2340975.8415
L	56+64.66	35.00	723201.0811	2340970.2246
L	57+43.86	-35.00	723264.7234	2341054.6127
L	57+43.86	35.00	723194.9204	2341049.3642
L	57+75.48	-35.00	723262.3525	2341086.1437
L	57+75.48	35.00	723192.5496	2341080.8951
L	59+27.17	-35.00	723250.5823	2341237.5619
L	59+27.17	35.00	723180.8068	2341231.9605
L	61+74.55	35.00	723161.0114	2341478.5472
L	61+74.55	-35.00	723230.7869	2341484.1486
L	62+22.99	35.00	723157.2292	2341526.9853
L	62+22.99	-35.00	723227.0285	2341532.2822
L	63+40.00	30.00	723153.3605	2341644.0418
L	63+40.00	-30.00	723213.1884	2341648.5820
L	63+40.00	-35.00	723218.1741	2341648.9603
L	63+40.00	35.00	723148.3748	2341643.6634

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+15.00	-35.00	723542.6493	2336415.4384
L	10+45.00	-49.00	723546.7904	2336448.2842
L	12+30.00	45.00	723400.6566	2336595.6135
L	12+30.00	35.00	723410.1763	2336598.6756
L	12+32.00	-62.00	723501.9043	2336630.2821
L	12+32.00	-49.00	723489.5287	2336626.3014
L	12+43.00	-49.00	723486.1604	2336636.7730
L	12+43.00	-62.00	723498.5359	2336640.7537
L	14+15.52	-49.06	723433.2952	2336801.1220
L	15+10.00	56.00	723304.0767	2336858.3763
L	18+81.00	-49.00	723288.4720	2337243.6280
L	19+78.49	55.00	723160.0491	2337305.5978
L	20+19.54	-49.00	723248.2092	2337374.3835
L	20+38.73	57.00	723140.9807	2337364.0127
L	20+75.00	59.00	723129.4016	2337399.6535
L	20+77.00	75.00	723113.3866	2337397.6993
L	20+85.00	59.00	723126.8669	2337409.6598
L	20+87.00	73.00	723112.7821	2337408.2769
L	20+90.00	-49.00	723230.4569	2337440.6155
L	22+95.00	-44.00	723185.5631	2337637.5710
L	23+07.00	47.00	723093.8770	2337633.2415
L	24+03.46	-44.00	723166.9548	2337743.9074
L	25+59.00	47.00	723051.2916	2337882.1001
L	25+98.00	51.00	723040.8443	2337919.8871
L	27+20.42	-44.00	723114.1011	2338056.4344
L	27+75.00	45.00	723017.4988	2338096.0369
L	29+02.50	-44.00	723087.8688	2338234.6926
L	30+52.00	60.00	722973.9887	2338377.5575
L	31+13.17	-44.00	723078.6154	2338437.9691
L	32+60.00	-44.00	723088.7422	2338581.1659
L	33+27.00	47.00	723006.6946	2338658.7010
L	38+40.93	-48.00	723175.1895	2339153.9041
L	41+49.39	-48.00	723219.9963	2339459.0481
L	43+51.00	-48.85	723250.3078	2339658.3692
L	43+51.00	-60.00	723261.3391	2339656.7390
L	43+60.00	48.00	723155.8151	2339681.4307
L	43+62.00	-48.90	723251.9617	2339669.2442
L	43+62.00	-60.00	723262.9472	2339667.6208
L	45+65.00	-49.75	723282.4836	2339869.9384
L	47+80.00	-47.00	723308.0706	2340085.5459
L	49+38.00	-49.00	723321.4737	2340245.9811
L	49+65.00	54.00	723219.6273	2340277.0505
L	49+95.00	-49.00	723323.5898	2340303.4912
L	52+25.00	57.00	723214.2848	2340531.4705
L	52+90.00	-42.00	723308.4628	2340603.1011
L	54+82.00	47.00	723203.8281	2340787.1124
L	56+87.00	-61.00	723295.0028	2341000.1056
L	56+87.00	-43.00	723277.0587	2340998.6879
L	56+98.00	-61.00	723294.1440	2341011.0271
L	56+98.00	-44.00	723277.1958	2341009.7007
L	56+98.00	-44.00	723277.1958	2341009.7007
L	57+28.00	47.00	723184.1551	2341032.6048
L	59+85.00	35.00	723176.1795	2341289.6015
L	59+85.00	40.00	723171.1955	2341289.2014
L	59+92.00	-55.00	723265.3307	2341303.7809
L	61+40.00	-49.00	723247.5070	2341450.8262
L	63+40.00	-47.00	723230.1397	2341649.8684

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	723513.9238	2336390.4415
PC	13+64.71	723402.2451	2336737.6320
PT	14+66.33	723370.8832	2336834.2882
PC	18+81.00	723241.9021	2337228.3885
PCC	20+19.54	723201.1322	2337360.7908
PCC	21+85.42	723162.3911	2337522.0265
PT	24+03.46	723123.5701	2337736.5731
PC	27+20.42	723070.7171	2338049.0954
PCC	29+02.50	723044.2095	2338229.2242
PCC	31+13.17	723034.6394	2338439.4561
PT	33+14.91	723051.6377	2338640.3873
PC	33+48.46	723056.1560	2338673.6317
PT	34+90.26	723076.1497	2338814.0148
PC	37+33.79	723112.0266	2339054.8876
PT	38+40.93	723127.6975	2339160.8792
PC	40+99.48	723165.2391	2339416.6892
PT	41+49.42	723172.5144	2339466.0921
PC	46+25.47	723242.1075	2339937.0278
PCC	47+78.59	723261.1722	2340088.9476
PT	49+37.32	723272.4854	2340247.2475
PC	49+65.29	723273.5962	2340275.1955
PT	52+91.05	723266.5195	2340600.6763
PC	54+47.55	723253.5131	2340756.6349
PT	55+33.80	723246.4687	2340842.5950
PC	56+64.66	723235.9682	2340973.0331
PT	57+43.86	723229.8219	2341051.9884
PC	57+75.48	723227.4511	2341083.5194
PT	59+27.17	723215.6945	2341234.7612
PC	61+74.55	723195.8991	2341481.3479
PT	62+22.99	723192.1289	2341529.6338
POT	66+50.01	723159.8162	2341955.4295

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	723207.0902	2337340.3660
POT	12+00.00	723008.0494	2337320.8024

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	723174.7267	2341758.9482
POT	12+00.00	723021.5429	2341887.5356

NOTE: DRAWING NOT TO SCALE

6/22/2009
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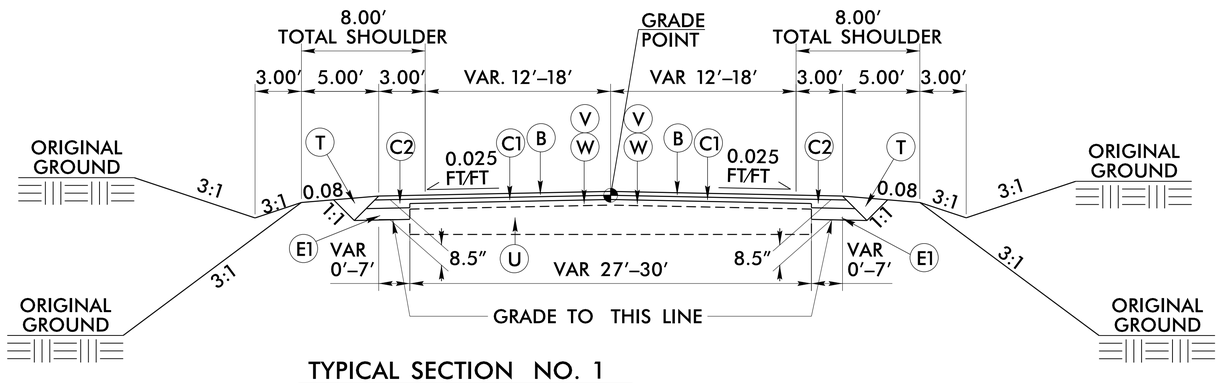
PROJECT REFERENCE NO.	SHEET NO.
W5204-C	2A-1

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
E0D89850A45044B

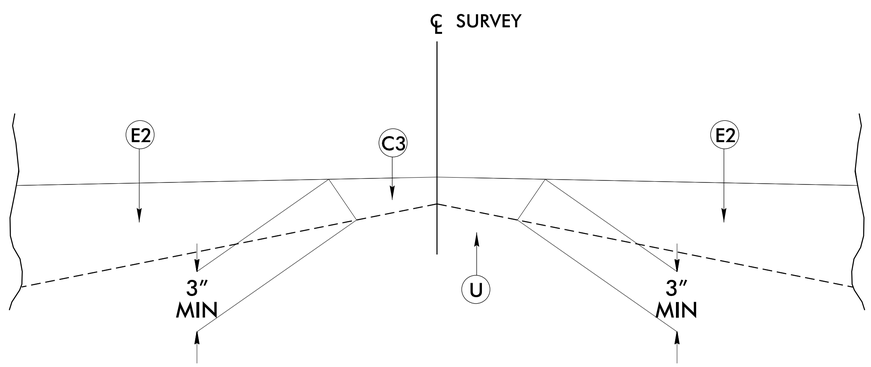
PAVEMENT DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
E0D89850A45044B



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
–L– 10+00.00 TO 19+50.00

NOTE: –L– 19+50.00 TO 63+50.00
MILL 1.5″ (V)
1.5″ S9.5B (C1)
OGAFC, TYPE FC–1 (B)



Detail Showing Method of Wedging

PAVEMENT SCHEDULE	
B	PROP. OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING ON THIS SHEET)
V	MILLING 1.5"

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

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COMPUTED BY:	D.R.Ethridge	DATE:	5/10/2021
CHECKED BY:	D.R.Ethridge	DATE:	5/10/2021

PROJECT NO.	SHEET NO.
W-5204C	3B-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

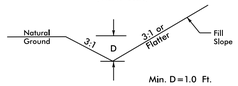
| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE | | | | | | | | | | | | C.S. PIPE SIZE | | | | | | | | R.C. PIPE CLASS III SIZE | | | | | | | | R.C. PIPE CLASS IV SIZE | | | | | | | | | | | | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS | | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL LF FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. | | | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE | | | CONCRETE TRANSITIONAL SECTION | | | | | | | | | | | |

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	04
R/W SHEET NO.	04

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III

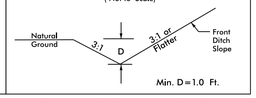
HYDRAULICS ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III

DETAIL D
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 12+30 TO STA. 19+50 LT
FROM STA. 14+95 TO STA. 17+00 RT
FROM STA. 17+92 TO STA. 19+50 RT

DETAIL K
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 11+00 TO STA. 12+30 LT
FROM STA. 17+00 TO STA. 17+92 RT

PI Sta 14+15.52
△ = 0° 17' 28" (RT)
D = 0° 17' 11.3"
L = 101.62'
T = 50.81'
R = 20,000.00'

NAD 83

2

ELIZABETH W. SPEIGHT
DB 2274 PG 757

-L- PT 14+66.33

-L- POT 10+00.00
BEGIN PROJECT W-5204-C

-L- PC 13+64.71

SPECIAL LATERAL V DITCH
SEE DETAIL D

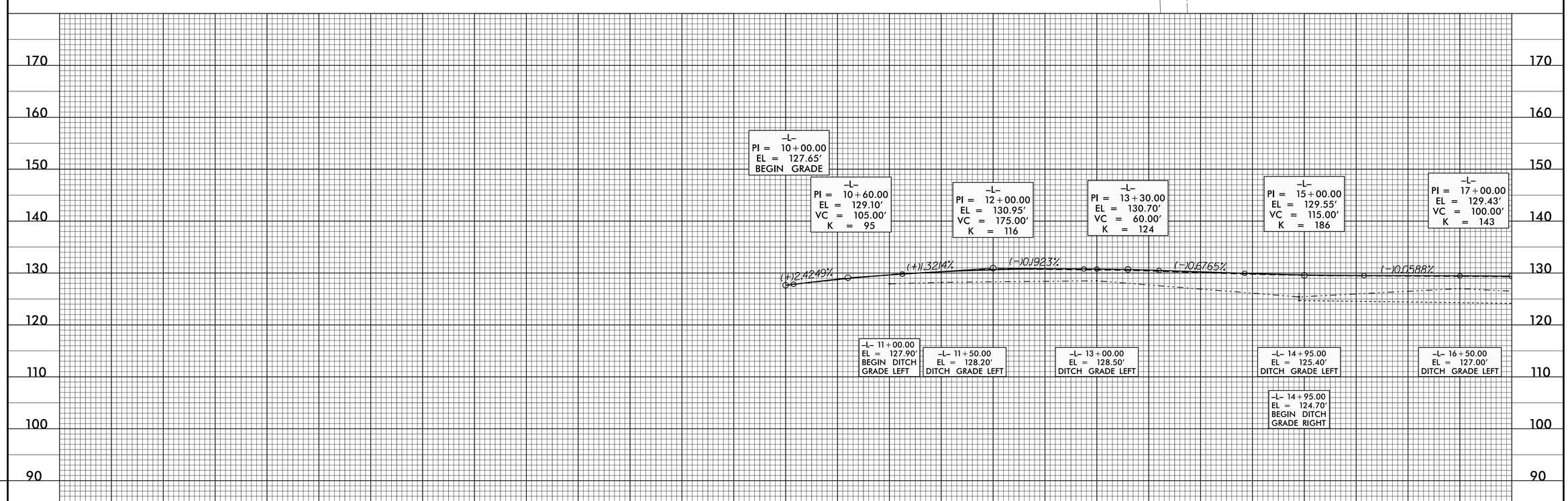
SPECIAL CUT DITCH
SEE DETAIL K

NOT LOCATED (PER CENTURY LINK PLANS)

-L- 10+00.00 35.00' LT
-L- 10+00.00 30.00' LT
-L- 10+15.00 35.00' LT
-L- 10+45.00 49.00' LT
-L- 12+43.00 49'&62' LT
-L- 12+32.00 49'&62' LT
-L- 13+00.00 35.00' LT
-L- 14+15.52 49.06' LT
-L- 15+00.00 45.00' LT
-L- 15+00.00 55.00' LT
-L- 16+10.00 49.00' LT
-L- 17+00.00 35.00' LT
-L- 10+00.00 30.00' RT
-L- 10+00.00 35.00' RT
-L- 12+30.00 35'&45' RT
-L- 13+30.00 49.10'&85' RT
-L- 13+64.71 35.00' RT
-L- 14+66.33 35.00' RT
-L- 14+10.00 52.33'&85' RT
-L- 14+86.50 45.00' RT
-L- 15+10.00 56.00' RT
-L- 16+70.00 60.00' RT

0402
0401

EXIST R/W
FSS
NC-42 28'-30' BST
S 72° 10' 08" E
S 71° 52' 40" E
27'
35'
R 50'
5' WW
GPS W5204C-1
300.00' TAPER
GRADE TO DRAIN
REMOVE 18" RCP-IV
3' PAVED SHOULDER
CONC. HW
CLASS B RIP RAP ON BANKS
BEGIN 300' TAPER -L- 16+50.00
SPECIAL LATERAL V DITCH
SEE DETAIL D
MATCH TO SHEET 05 -L- 17+00.00
GPS W5204C-1 POT 5+00
WILSON COUNTY
1



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
W-5204C	05
R/W SHEET NO.	05

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
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HYDRAULICS ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
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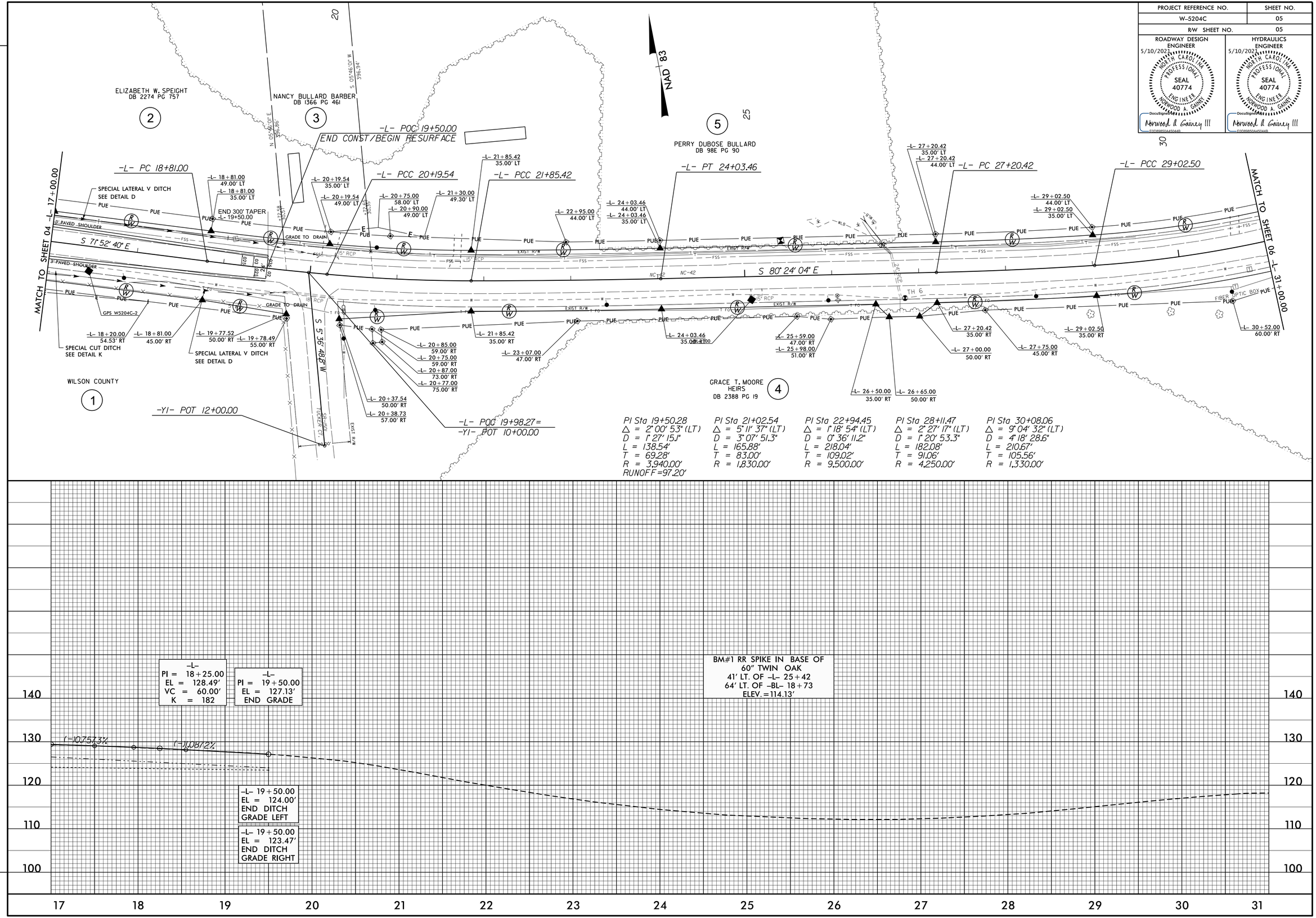

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PROJECT REFERENCE NO.	SHEET NO.
W-5204C	06
R/W SHEET NO.	06

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III

HYDRAULICS ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III

PI Sta 32+14.12
△ = 5° 48′ 30″ (LT)
D = 2° 52′ 45.1″
L = 201.74′
T = 100.95′
R = 1,990.00′

PI Sta 34+19.36
△ = 0° 43′ 55″ (LT)
D = 0° 30′ 58.2″
L = 141.80′
T = 70.90′
R = 11,100.00′

PI Sta 37+87.36
△ = 0° 07′ 22″ (RT)
D = 0° 06′ 52.5″
L = 107.14′
T = 53.57′
R = 50,000.00′

PI Sta 41+24.45
△ = 0° 03′ 26″ (LT)
D = 0° 06′ 52.5″
L = 49.94′
T = 24.97′
R = 50,000.00′

NAD 83

N 00°34′20″ E
241.21′

PERRY DUBOSE BULLARD
DB 98E PG 90
5

STONEYBROOK FARMS INC
DB 1834 PG 746
7

4
GRACE T. MOORE
HEIRS
DB 2388 PG 19

6
H.B. JOHNSON HEIRS

MATCH TO SHEET 05 -L- 31+00.00

MATCH TO SHEET 07 -L- 45+00.00

-L- PCC 31+13.17
-L- PT 33+14.91
-L- PC 33+48.46
-L- PT 34+90.26
-L- PC 37+33.79
-L- PT 38+40.93
-L- PC 40+99.48
-L- PT 41+49.42

-L- 31+13.17 44.00′ LT
-L- 31+13.17 35.00′ LT
-L- 32+60.00 44.00′ LT
-L- 33+14.91 35.00′ LT
-L- 33+48.46 35.00′ LT
-L- 34+90.26 35.00′ LT
-L- 37+33.79 35.00′ LT
-L- 38+40.93 35.00′ LT
-L- 38+40.93 48.00′ LT
-L- 39+80.00 50.00′ LT
-L- 39+80.00 35.00′ LT
-L- 40+35.00 50.00′ LT
-L- 40+35.00 35.00′ LT
-L- 40+99.48 35.00′ LT
-L- 41+49.42 48.00′ LT
-L- 41+49.42 35.00′ LT
-L- 43+51.00 60.00′ LT
-L- 43+51.00 48.85′ LT
-L- 43+62.00 60.00′ LT
-L- 43+62.00 48.90′ LT

N 82° 15′ 37″ E
N 81° 31′ 42″ E
N 81° 39′ 04″ E
N 81° 35′ 38″ E

NOT LOCATED (PER PRELIMINARY LINK PLANS)

-L- 31+13.17 35.00′ RT
-L- 33+14.91 35.00′ RT
-L- 33+27.00 47.00′ RT
-L- 33+48.46 35.00′ RT
-L- 34+90.26 35.00′ RT
-L- 37+33.79 35.00′ RT
-L- 38+40.93 35.00′ RT
-L- 39+80.00 35.00′ RT
-L- 39+80.00 48.00′ RT
-L- 40+35.00 35.00′ RT
-L- 40+35.00 48.00′ RT
-L- 41+49.42 35.00′ RT
-L- 40+99.48 35.00′ RT
-L- 43+60.00 48.00′ RT

-BL- 101
-BL- 102

BM#2 RR SPIKE IN BASE OF
36″ SYCAMORE
43′ RT. OF -L- 38+86
20′ RT. OF -BL- 32+16
ELEV. = 105.51′

160 150 140 130 120 110 100 90 80 70

31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
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R/W SHEET NO.	07

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
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HYDRAULICS ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
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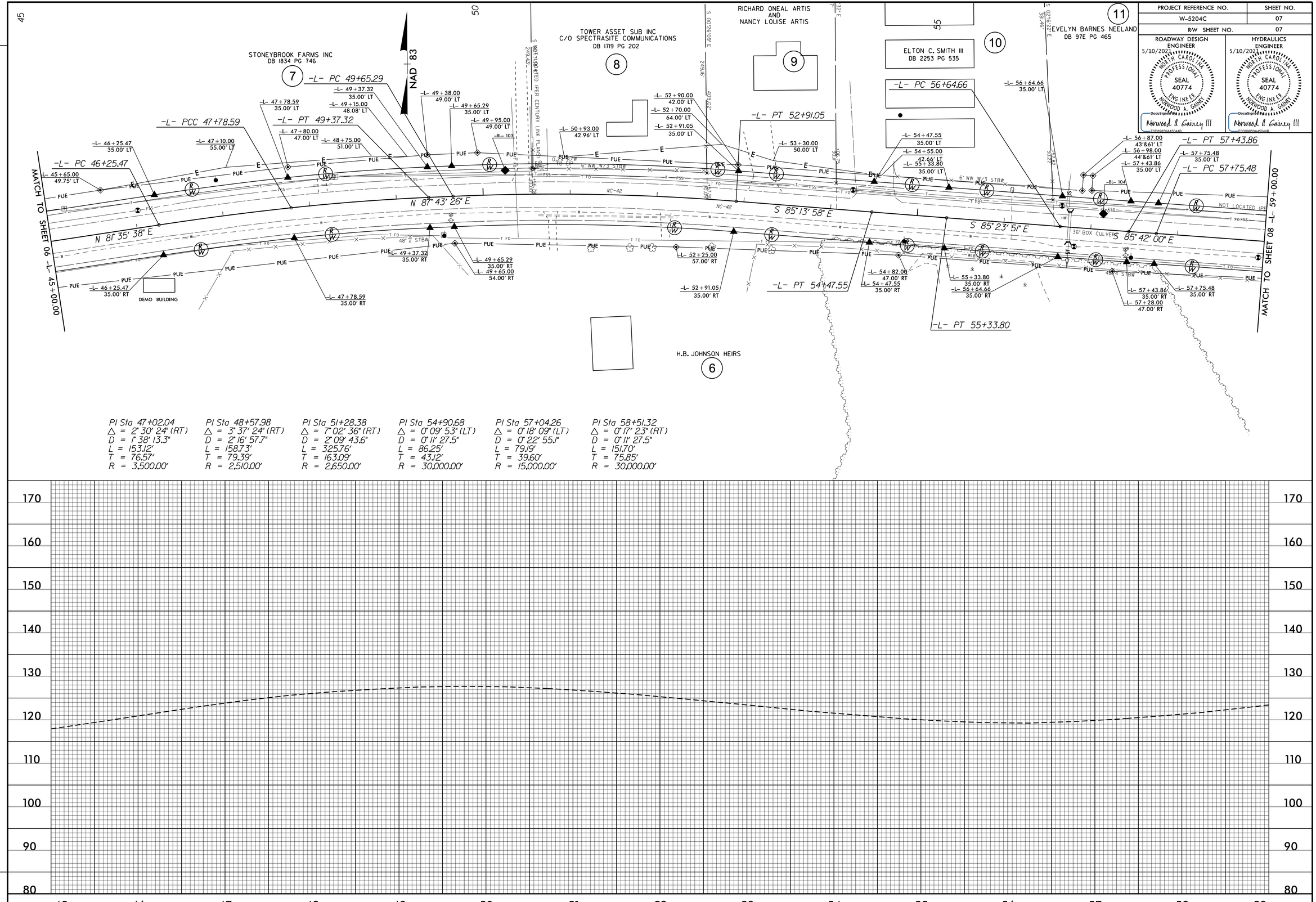

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
W-5204C	08
R/W SHEET NO.	08

ROADWAY DESIGN ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
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HYDRAULICS ENGINEER
5/10/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
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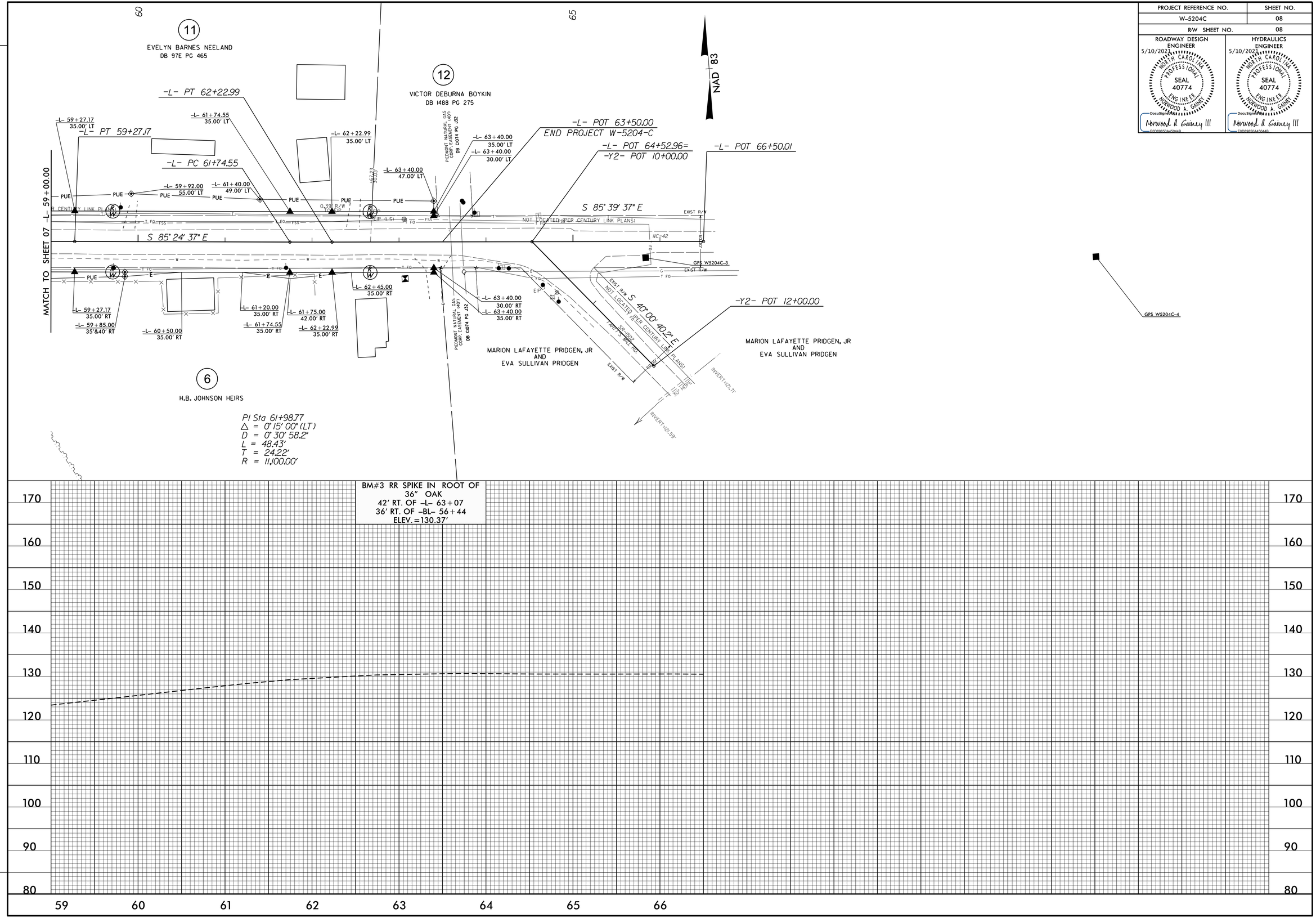

REVISIONS

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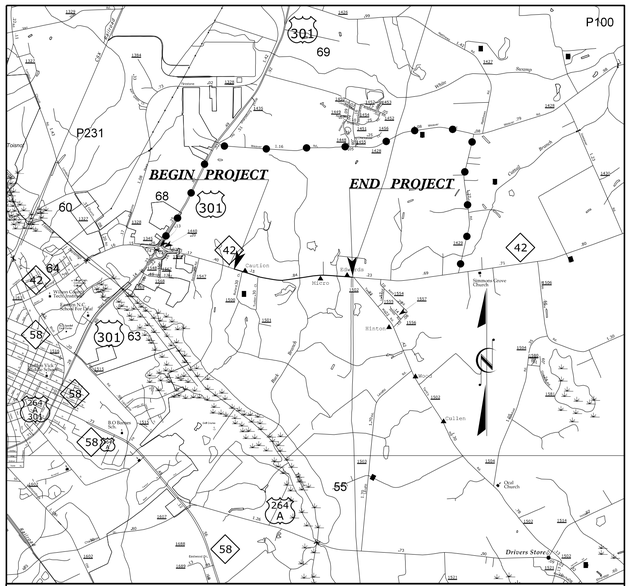
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WILSON COUNTY



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS AND LIST OF APPLICABLE ROADWAY STANDARDS
TMP-1A	TRANSPORTATION OPERATIONS PLAN: GENERAL NOTES AND PHASING
TMP-2	WEEKEND CLOSURE FOR PIPE INSTALLATION

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" 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
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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

DR. J. E. HUMMER, P.E. — STATE TRAFFIC MANAGEMENT ENGINEER
J. S. KITE, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. B. JENNINGS — TRAFFIC CONTROL DESIGN ENGINEER

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

APPROVED: DocuSigned by: Steve Kite E27CE3E1DFC442...

DATE: 6/27/2019

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022104 ENGINEER JOHN S. KITE, JR.

SHEET NO. TMP-1

W-5204C

TIP PROJECT:

4/10/2019
O:\Div Proj\Division04\W5204C\Traffic\TrafficControl\TCP\Revised TMP 4-4-19\W-5204C_TC_TMP_1.dgn
User:sbjennings

PROJ. REFERENCE NO.	SHEET NO.
W-5204C	TMP-1A

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 UNDESIRED 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 42	MONDAY THRU FRIDAY	6:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME

NC 42

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 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 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

D) 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 INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON NC 42.

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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

K) 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.

L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

   PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

   COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

PAVEMENT MARKINGS AND MARKERS

O) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
NC 42	PAINT	TEMPORARY RAISED

P) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

Q) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

PHASING

NOTE: CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVES AT ALL TIMES

STEP 1 -- INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- NC 42 PER RSD 1101.01, SHEET 3 OF 3.

-- INSTALL AND COVER STATIONARY SIGNS AS SHOWN ON TMP-2

-- PLACE CMS(S) AS SHOWN ON TMP-2, ACTIVATE INITIAL MESSAGE ON THE SATURDAY PRIOR TO CLOSING NC 42 IN STEP 2.

COMPLETE THE WORK REQUIRED OF STEP 2 THROUGH 4 IN 59 CONSECUTIVE HOURS BEGINNING ON A FRIDAY AT 7:00 P.M. AND ENDING THE FOLLOWING MONDAY AT 6:00 A.M. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 2 -- USING RSD 1101.03, SHEET 1, AND TMP-2, ACTIVATE SECOND CMS(S) MESSAGES, CLOSE NC 42 AND DETOUR AS SHOWN ON TMP-2.

STEP 3 -- AWAY FROM TRAFFIC, INSTALL PIPE AT -L- STA. 26+70

STEP 4 -- REMOVE BARRICADES, PORTABLE ROAD CLOSURE SIGNS, COVER DETOUR SIGNS AND OPEN NC 42 TO TRAFFIC.

STEP 5 -- USING RSD 1101.02, SHEET 1 OF 14, WEDGE AND WIDEN -L- AS SHOWN ON THE ROADWAY PLANS, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY PAVEMENT MARKING IN THE EXISTING PATTERN.

STEP 6 -- USING RSD 1101.02, SHEET 1 OF 14, PLACE FINAL LAYER OF SURFACE COURSE AND THE FINAL PAVEMENT MARKINGS.

STEP 7 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

APPROVED: DocuSigned by: Norwood A Gainey III
CDDB6B60A460448...

DATE: 7/6/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

TRANSPORTATION OPERATIONS PLAN

06-JUL-2021 11:33
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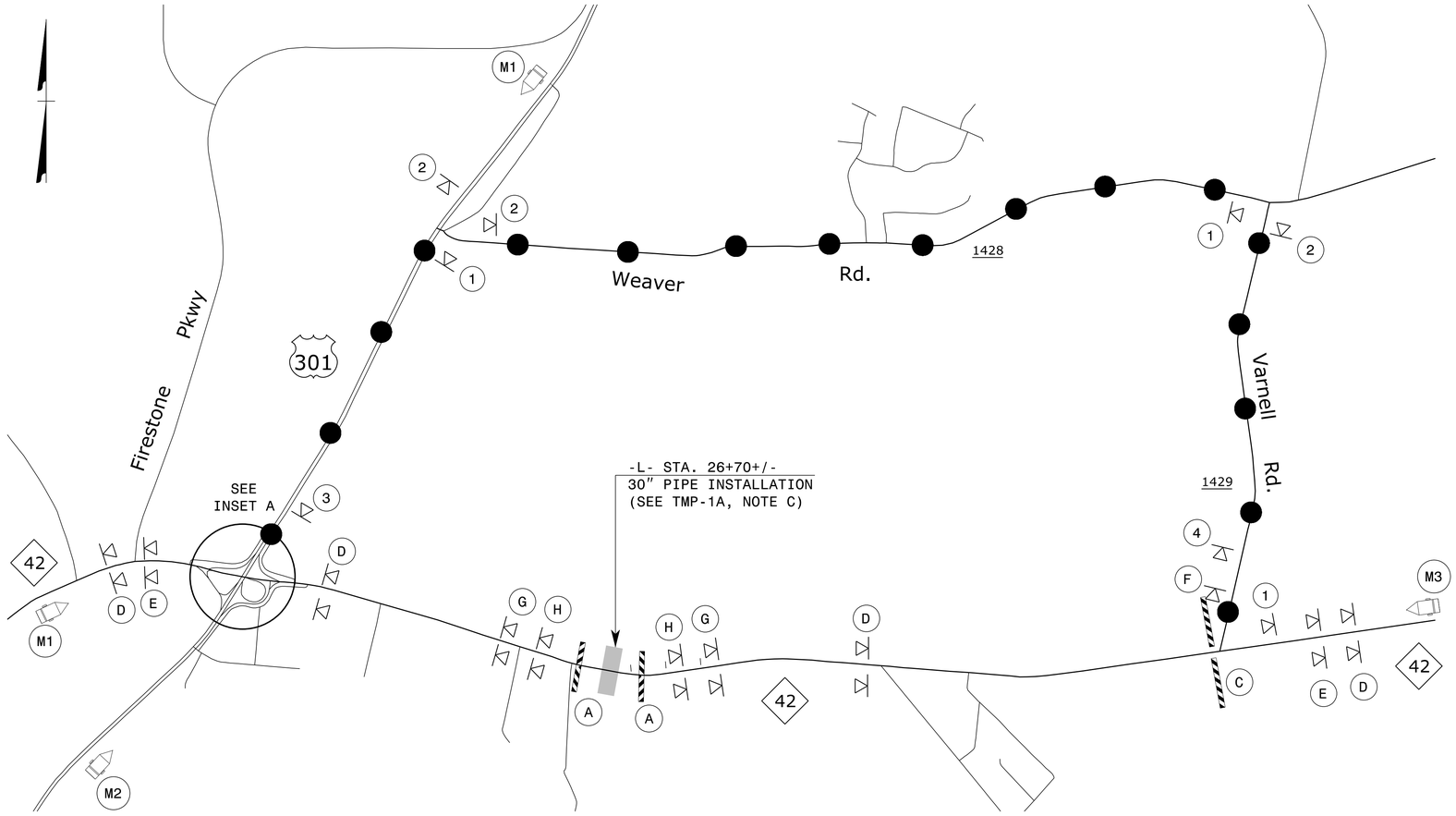
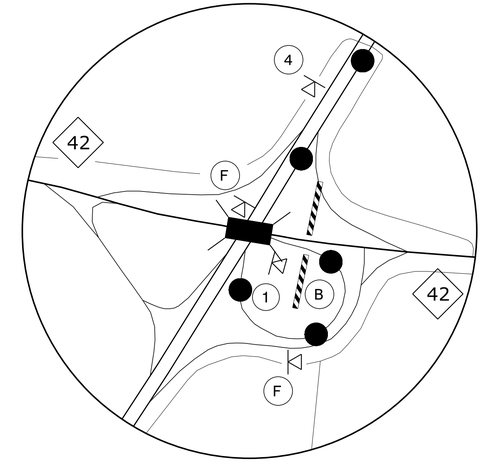
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5204C	TMP-2





INSET A

PLACE ALL CMS BOARDS 1 MILE +/- BEFORE DETOUR

M1 + M2

MESSAGE NO. 1	MESSAGE NO. 2
NC 42 E WILL CLOSE	FRI 6 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

M3

MESSAGE NO. 1	MESSAGE NO. 2
NC 42 W WILL CLOSE	FRI 6 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

MESSAGE BEGINNING MONDAY PRIOR TO ROAD CLOSURE

M1

MESSAGE NO. 1	MESSAGE NO. 2
NC 42 E CLOSED AHEAD	NC 42 E FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

M2

MESSAGE NO. 1	MESSAGE NO. 2
NC 42 E CLOSED AHEAD	NC 42 E STAY ON US 301

CHANGEABLE MESSAGE SIGN

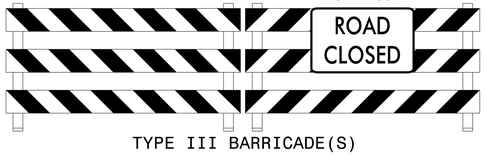
M3

MESSAGE NO. 1	MESSAGE NO. 2
NC 42 W CLOSED AHEAD	NC 42 W FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

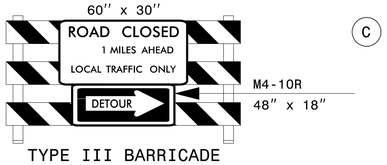
MESSAGE DURING ROAD CLOSURE

A



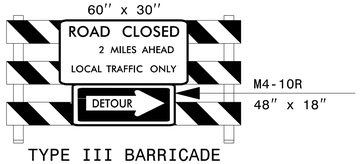
TYPE III BARRICADE(S)

B



TYPE III BARRICADE

C

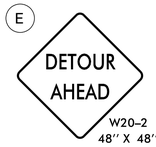


TYPE III BARRICADE

D

W20-3
48" X 48"

E



W20-2
48" X 48"

F

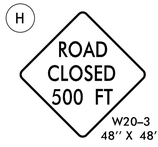
W20-3
48" X 48"

SP-4R
42" X 12"

G

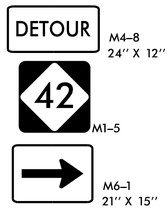
W20-3
48" X 48"

H



W20-3
48" X 48"

1

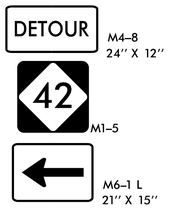


M4-8
24" X 12"

M1-5

M6-1
21" X 15"

2

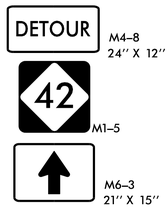


M4-8
24" X 12"

M1-5

M6-1 L
21" X 15"

3



M4-8
24" X 12"

M1-5

M6-3
21" X 15"

4

M4-8 A
24" X 18"

DETOUR ROUTE

APPROVED: DocuSigned by: Steve Kite E27CE3DE1DFC442...

DATE: 6/27/2019

NORTH CAROLINA PROFESSIONAL SEAL 022104 ENGINEER JOHN S. KITE, JR.

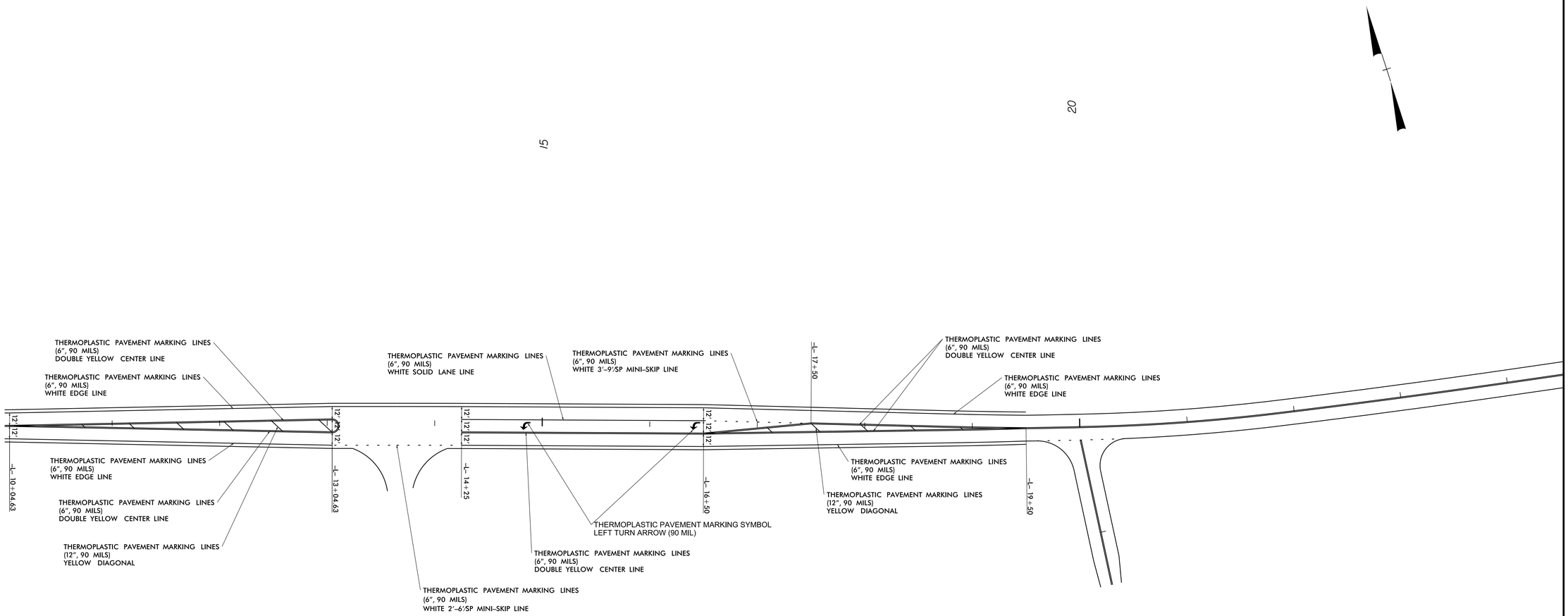
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

WEEKEND ROAD CLOSURE FOR PIPE INSTALLATON

6/27/2019
Q:\Division04\W5204C\TrafficTrafficControl\TCP\Revised TMP 4-11-19\W-5204C_TC_TMP_2.dgn
Users\bjennings

PROJ. REFERENCE NO.	SHEET NO.
W-5204C	PMP-01


THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
DOUBLE YELLOW CENTER LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE EDGE LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE EDGE LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
DOUBLE YELLOW CENTER LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(12", 90 MILS)
YELLOW DIAGONAL
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE SOLID LANE LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE 2'-6'/SP MINI-SKIP LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE 3'-9'/SP MINI-SKIP LINE
THERMOPLASTIC PAVEMENT MARKING SYMBOL
LEFT TURN ARROW (90 MIL)
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
DOUBLE YELLOW CENTER LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE EDGE LINE
THERMOPLASTIC PAVEMENT MARKING LINES
(12", 90 MILS)
YELLOW DIAGONAL
THERMOPLASTIC PAVEMENT MARKING LINES
(6", 90 MILS)
WHITE EDGE LINE
12'
12'
12'

PROJECT: W-5204C

TIP

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5204C	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

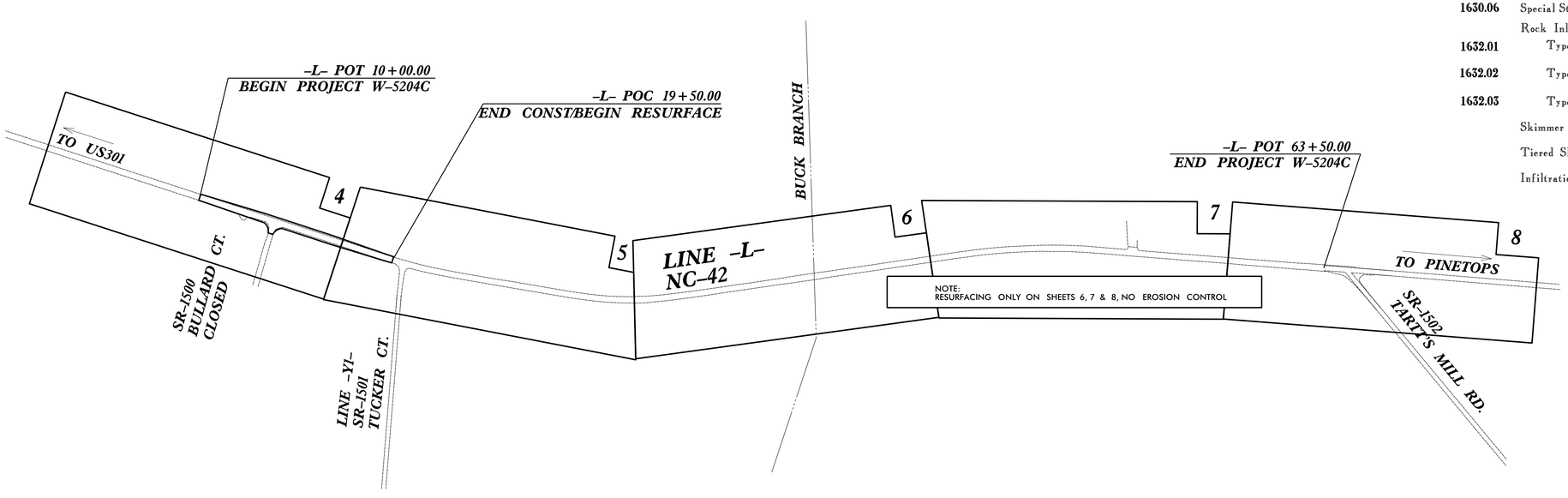
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILSON COUNTY

LOCATION: NC–42 FROM SR–1500 (BULLARD CT.) TO SR–1502 (TARTT'S MILL ROAD)

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING.



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
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	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/Coir Fiber Wattle	SW CFW
	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	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Designed by:

Wes Chandler — *NAME*

3374 — *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

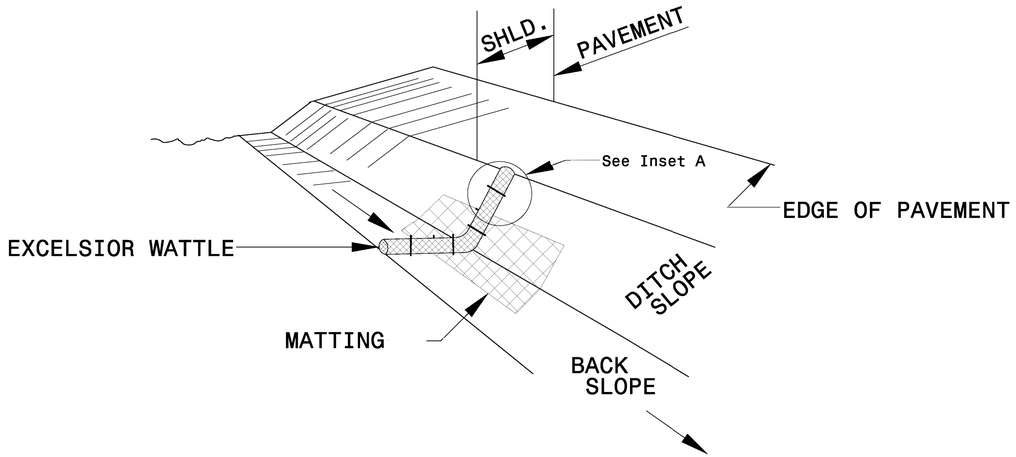
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

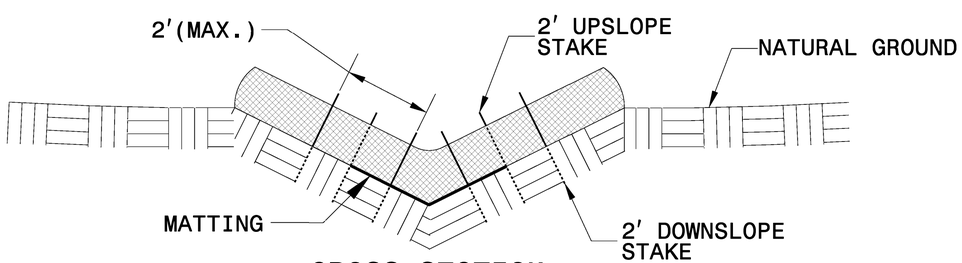
04-MAY-2021 08:49
Environmental\Roadside\Projects\W-5204C_EC_Revised_2019-10-03_TSH.dgn

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

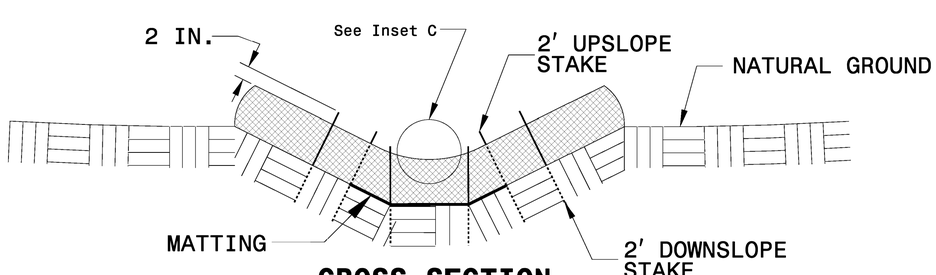
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

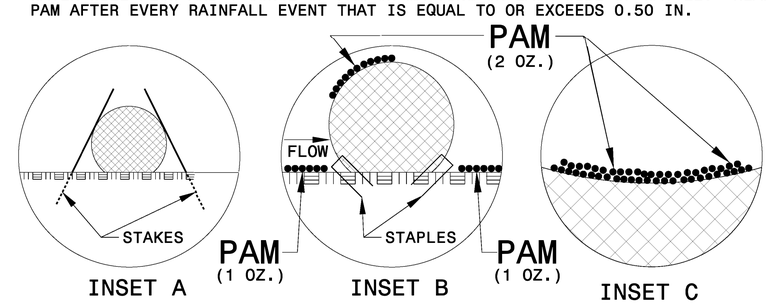
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

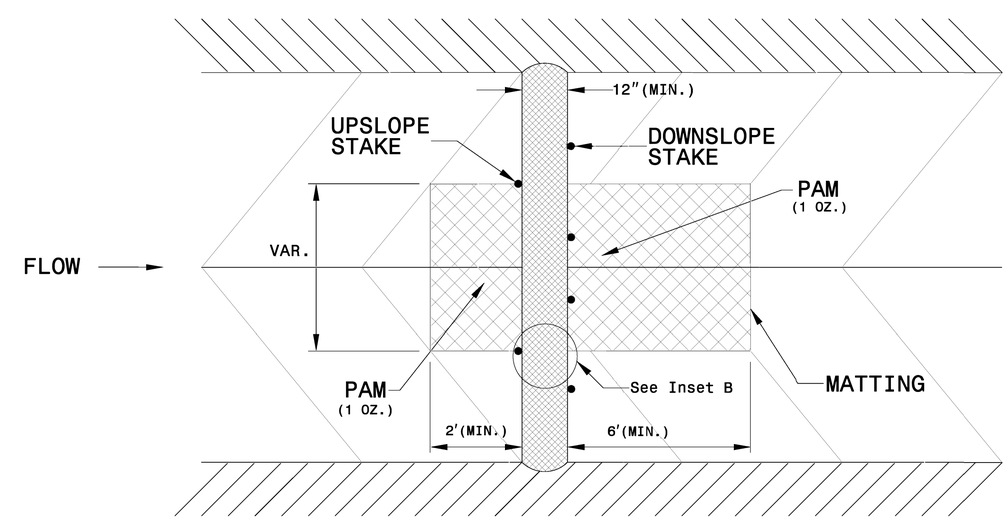
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

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

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





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	13+00	15+00	LT	280
4	-L-	16+50	19+50	LT	315
			SUBTOTAL		595
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					2,500
			TOTAL		3,095
			SAY		3,100

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

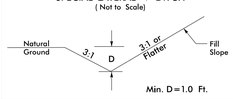
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

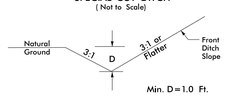
PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-4/CONST.4
R/W SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL D
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 12+30 TO STA. 19+50 LT
FROM STA. 14+95 TO STA. 17+00 RT
FROM STA. 17+92 TO STA. 19+50 RT

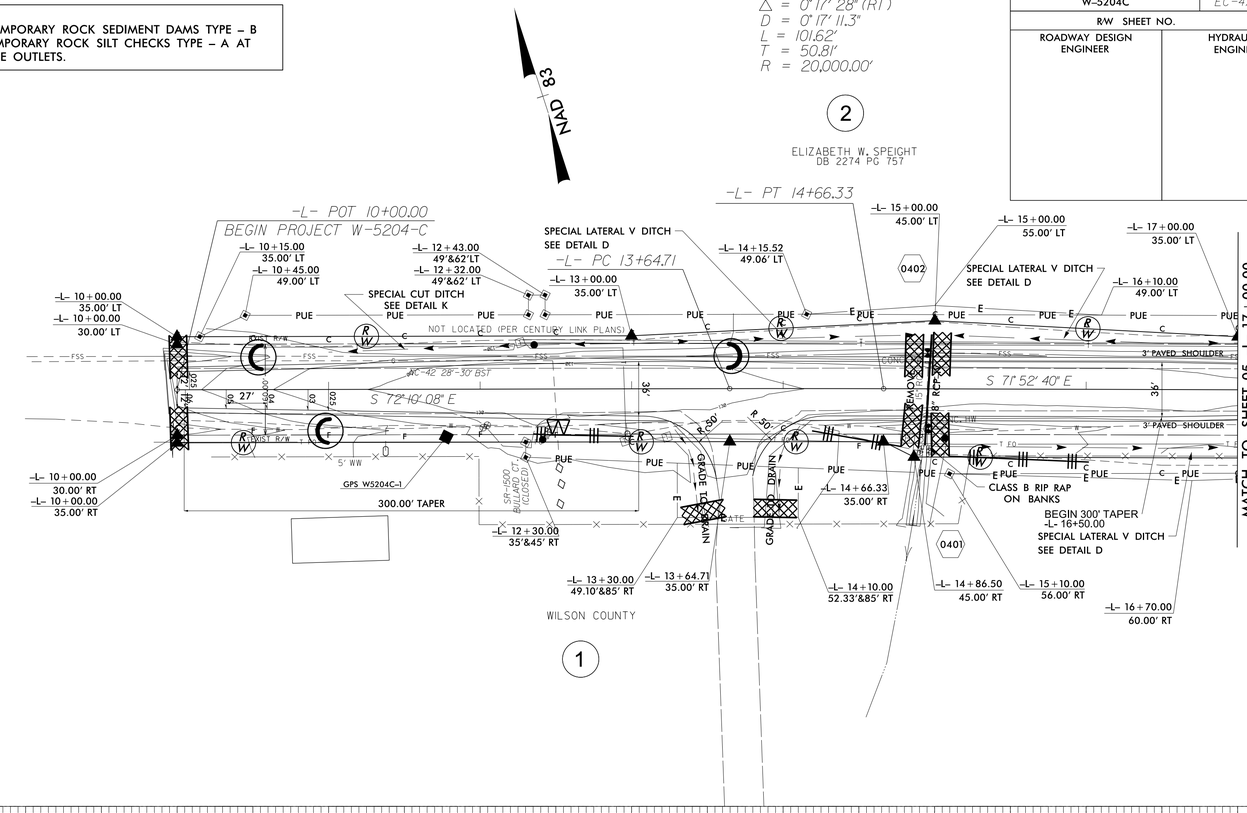
DETAIL K
SPECIAL CUT DITCH
(Not to Scale)

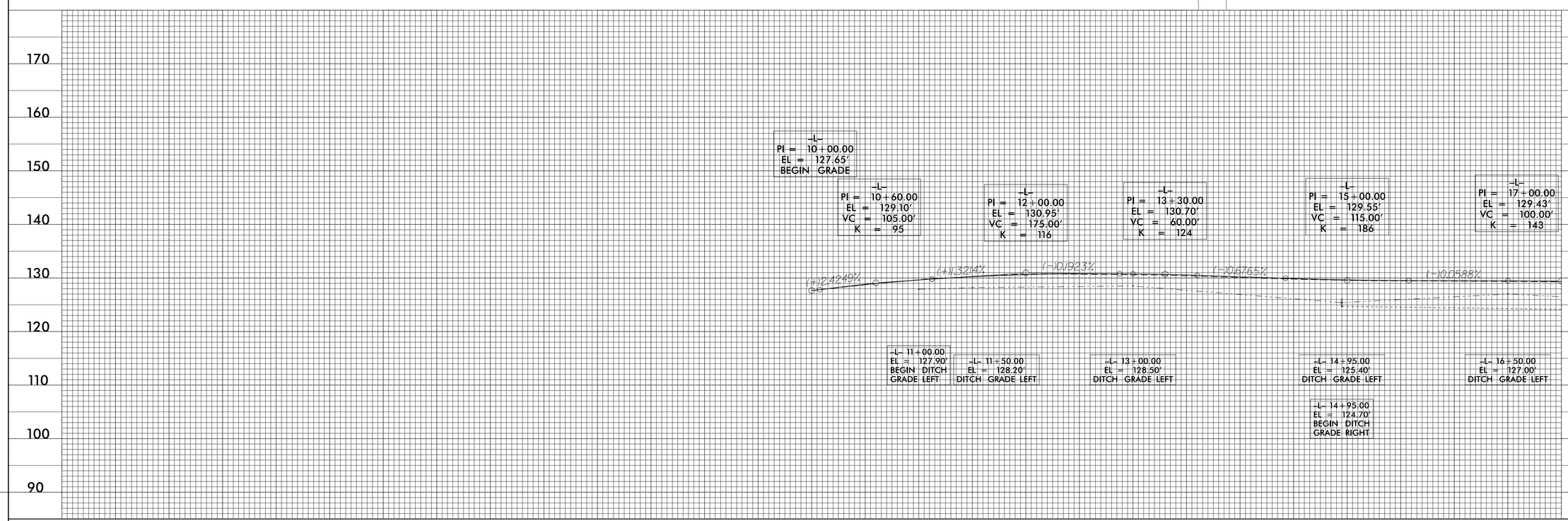


FROM STA. 11+00 TO STA. 12+30 LT
FROM STA. 17+00 TO STA. 17+92 RT

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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





REVISIONS

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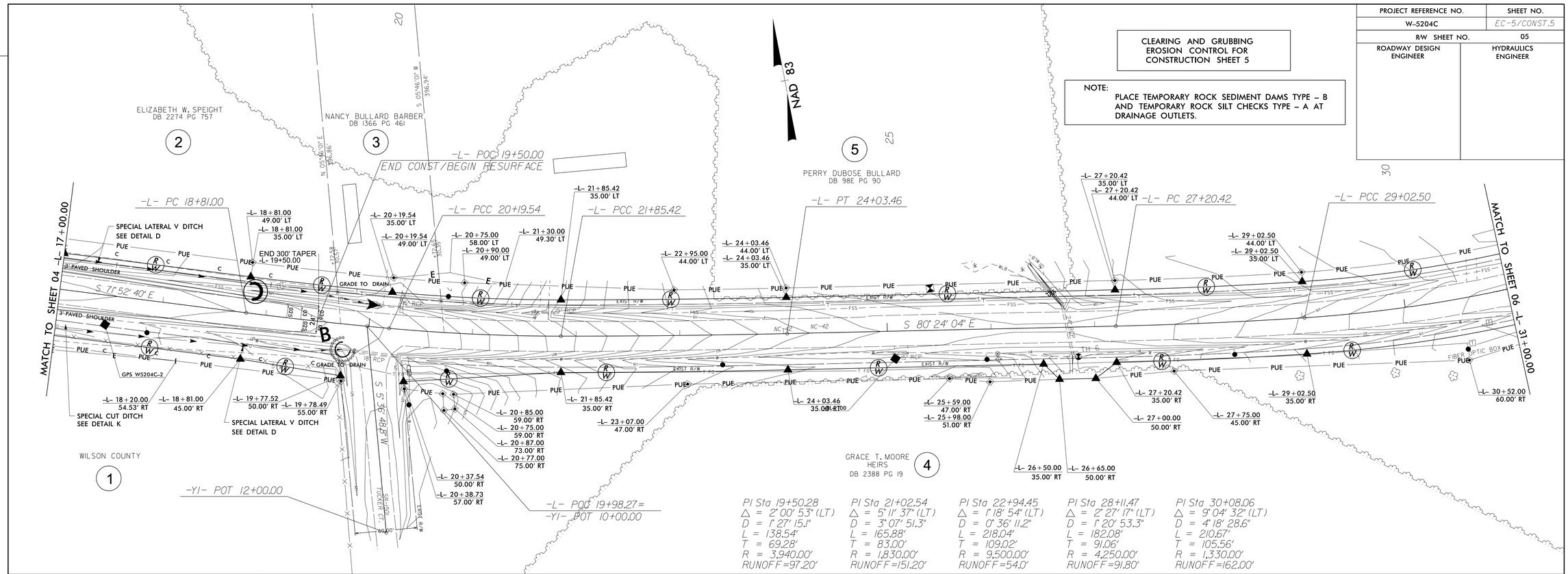
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-5/CONST.5
R/W SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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



REVISIONS

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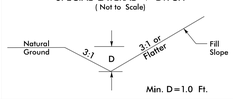
SSSSSSSSSSSSSSSSSSSDGNSSSSSSSSSSSSSSSSSSSS
SSSSSUSERNAMESSSSS

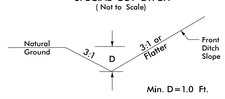
PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-6/CONST.4
R/W SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL D
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

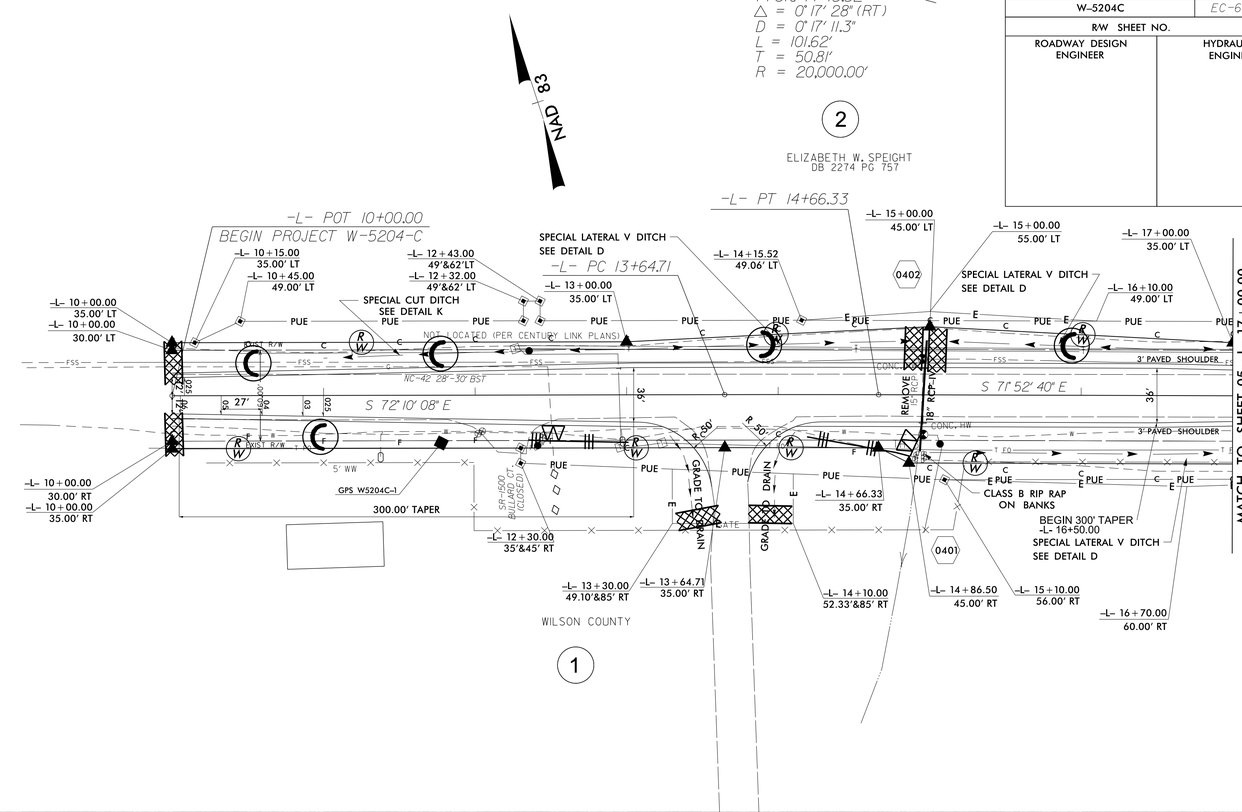


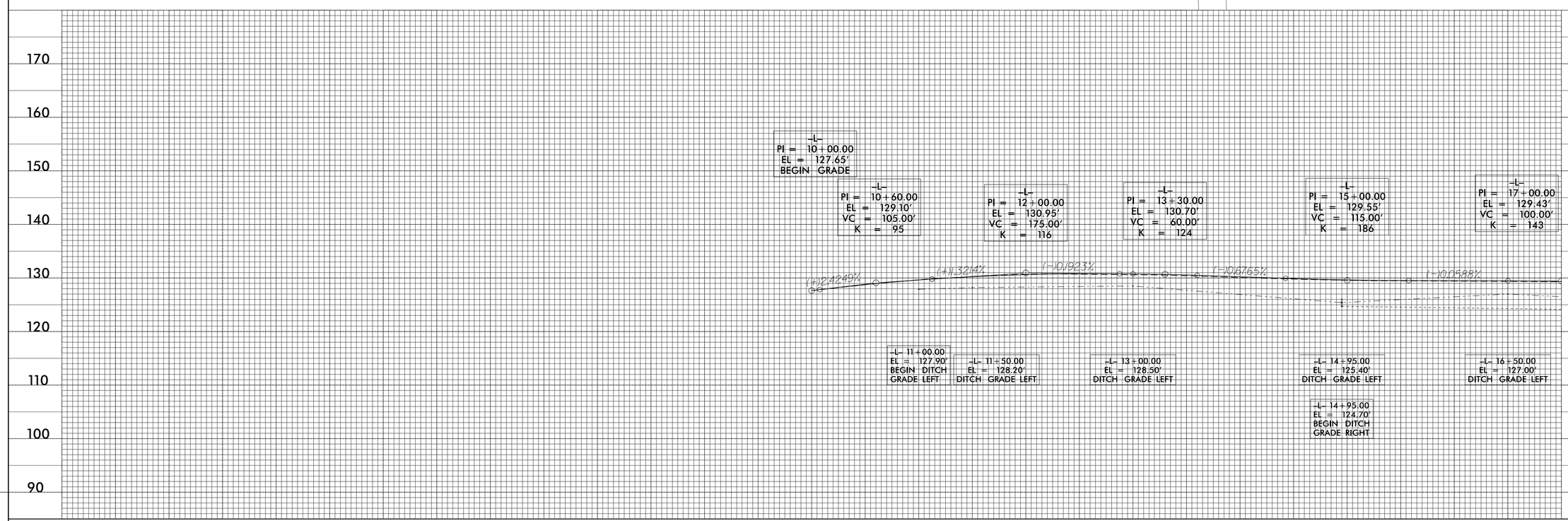
FROM STA. 12+30 TO STA. 19+50 LT
FROM STA. 14+95 TO STA. 17+00 RT
FROM STA. 17+92 TO STA. 19+50 RT

DETAIL K
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 11+00 TO STA. 12+30 LT
FROM STA. 17+00 TO STA. 17+92 RT





REVISIONS

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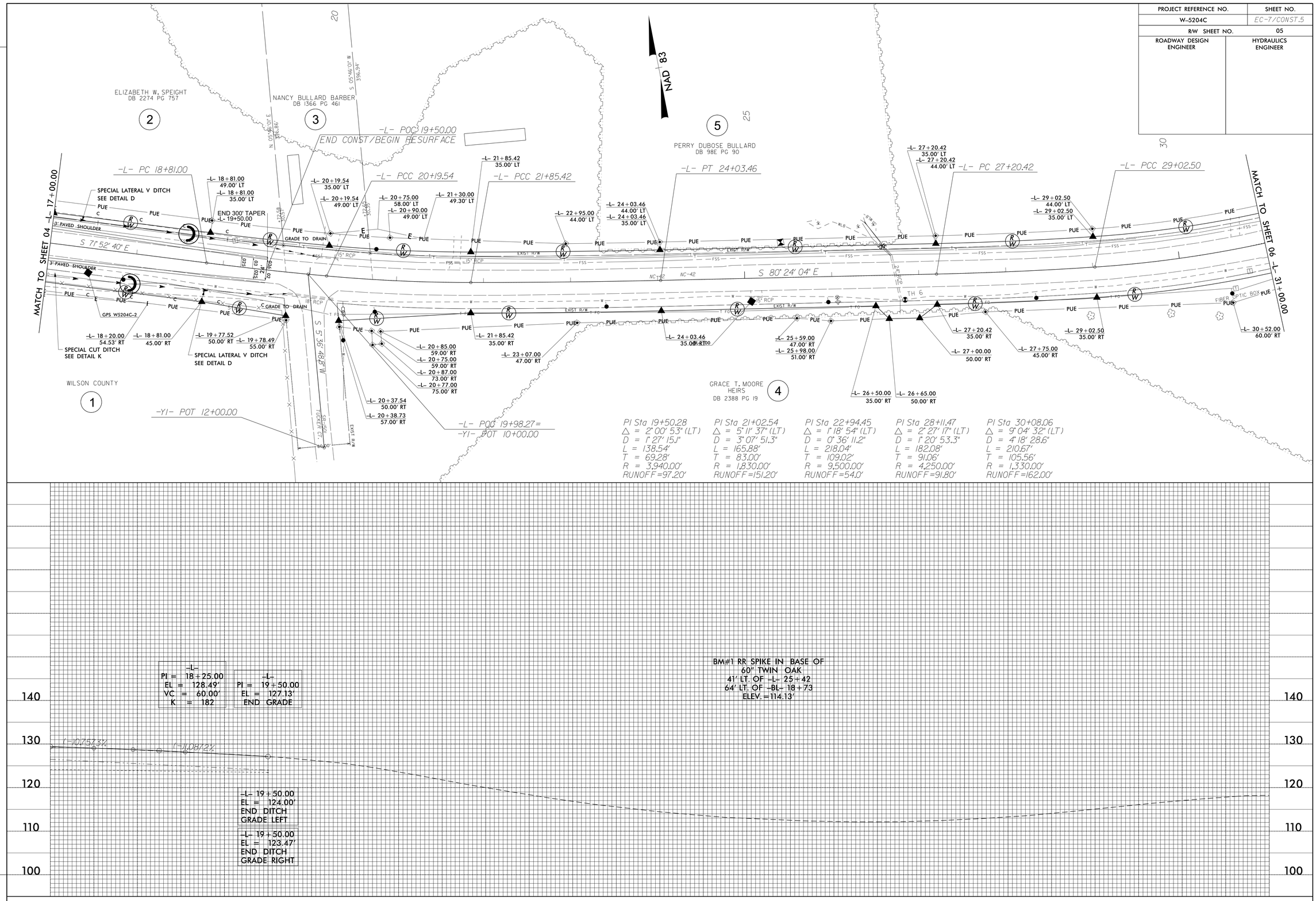
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5204C	EC-7/CONST.5
R/W SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
WILSON COUNTY

LOCATION: NC-42 FROM SR-1500 (BULLARD CT.) TO SR-1501 (TUCKER CT..)

TYPE OF WORK: UTILITY CONSTRUCTION

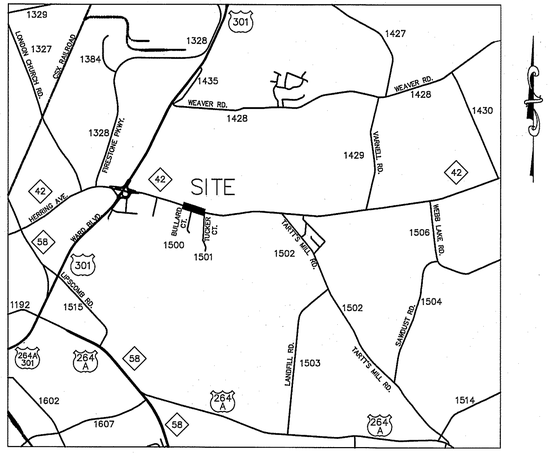
UTILITY OWNER:

CITY OF WILSON
1800 HERRING AVENUE
WILSON, NORTH CAROLINA 27893

PREPARED BY:

BARTLETT ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, NORTH CAROLINA 27893-1726

NORTH CAROLINA PROFESSIONAL SEAL 20106 ENGINEER ROBERT S. BARTLETT 10-11-19



LOCATION MAP
NO SCALE

INDEX OF SHEETS

UC-1 COVER SHEET
UC-2 NOTES
UC-3 PLAN & PROFILE (STA. 10+00 – STA. 19+50)
UC-4 DETAILS

PLANS
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

PROFILE (HORIZONTAL)
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

PROFILE (VERTICAL)
GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

BARTLETT ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
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www.bartlett.us.com

COVER SHEET

TIP NO. W-5204C
UTILITY CONSTRUCTION PLANS
NC 42 FROM BULLARD CT. TO TARTT'S MILL RD.
WILSON, NORTH CAROLINA

DATE:	MARCH 2017
SURVEY BY:	
DRAWN BY:	RF
CLIENT CODE:	WC
PROJECT:	16-241
CADFILE:	16241CP2
SCALE:	NTS

REVISIONS
MARCH 9, 2018
JANUARY 10, 2019

SHEET
UC-1

P:_CADD_LANDPROJECTS\WC\16241\dwg\16241CP2A-2.dwg, Oct 11, 2019 11:23AM EST

PC2-984

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO THE CITY OF WILSON.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTIONS. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES:

ALL TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS, SIGNS AND SIGNALS SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY R/W. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

THE UTILITY LOCATIONS SHOWN ON THIS MAP ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES FOR ACTUAL FIELD LOCATIONS. CALL 1-800-632-4949 OR 811 THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS BY CITY OF WILSON.

UTILITIES SHOWN ON PLANS ARE LOCATED APPROXIMATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES WHETHER SHOWN ON PLANS OR NOT.

CONTRACTOR TO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THESE FACILITIES IF DAMAGED.

WATER, SEWER, AND STORM DRAINAGE LINES SHOULD BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:

- MIN. 10' LATERAL SEPARATION BETWEEN WATER/SEWER LINES.
- MIN. 24" VERT. SEPARATION BETWEEN WATER/SEWER, IF WATER MUST BE PLACED BELOW SEWER, DUCTILE IRON IS REQUIRED ON BOTH LINES. DUCTILE IRON SHOULD EXTEND 10' PAST INTERSECTION ON WATER LINE AND TO THE NEXT MANHOLE ON SEWER LINE PER CITY OF WILSON SPECIFICATIONS.
- WATER/SEWER CROSSINGS SHALL BE ARRANGED SO THAT SEWER JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- MIN. 24" VERT. SEPARATION BETWEEN STORM DRAIN AND SAN. SEWER OR DUCTILE IRON IS REQUIRED.

ALL WORK SHALL CONFORM TO LATEST EDITION OF THE CITY OF WILSON STANDARDS AND SPECIFICATIONS, SPECIFICALLY SECTIONS 02510 AND 02530, WHICH CAN BE FOUND AT WWW.WILSONNC.APPIANENGRS.COM.

BARTLETT ENGINEERING & SURVEYING, PC

NORTH CAROLINA PROFESSIONAL SEAL 20106 ENGINEER ROBERT S. BARTLETT 10-10-19

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FAX: (252) 399-0804
www.bartlett-us.com

NOTES

TIP NO. W-5204C
UTILITY CONSTRUCTION PLANS
NC 42 FROM BULLARD CT. TO TARTT'S MILL RD.
WILSON, NORTH CAROLINA

DATE:	MARCH 2017
SURVEY BY:	
DRAWN BY:	RF
CLIENT CODE:	WC
PROJECT:	16-241
CADFILE:	16241CP2
SCALE:	NTS

REVISIONS
MARCH 9, 2018
JANUARY 10, 2019
OCTOBER 11, 2019

SHEET
UC-2

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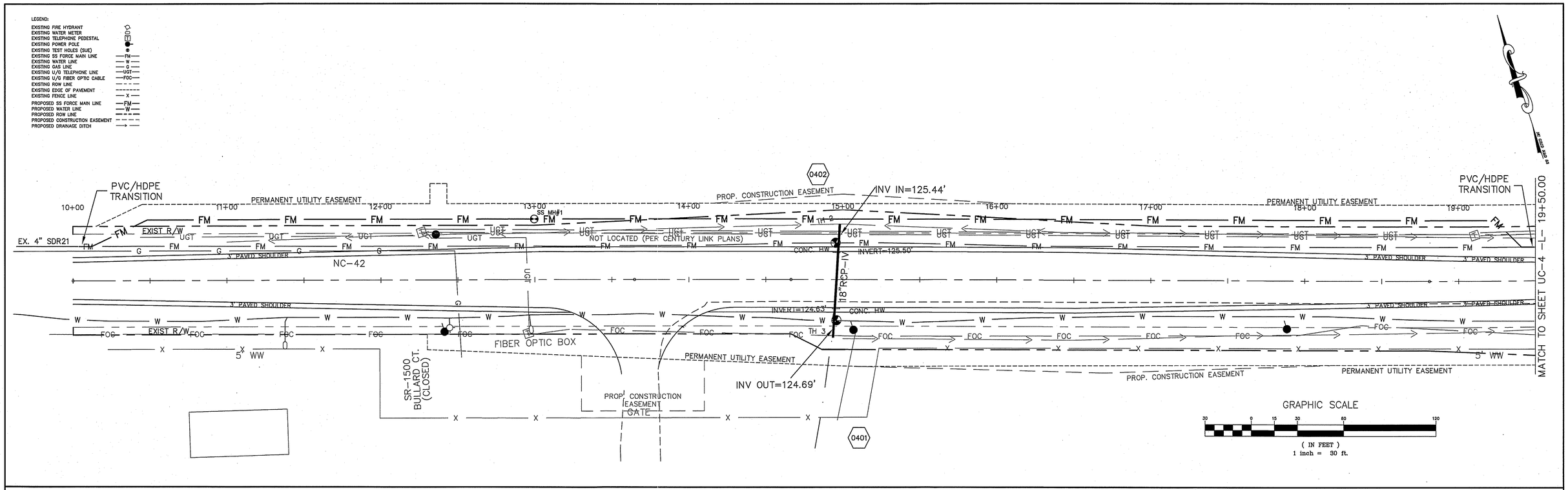
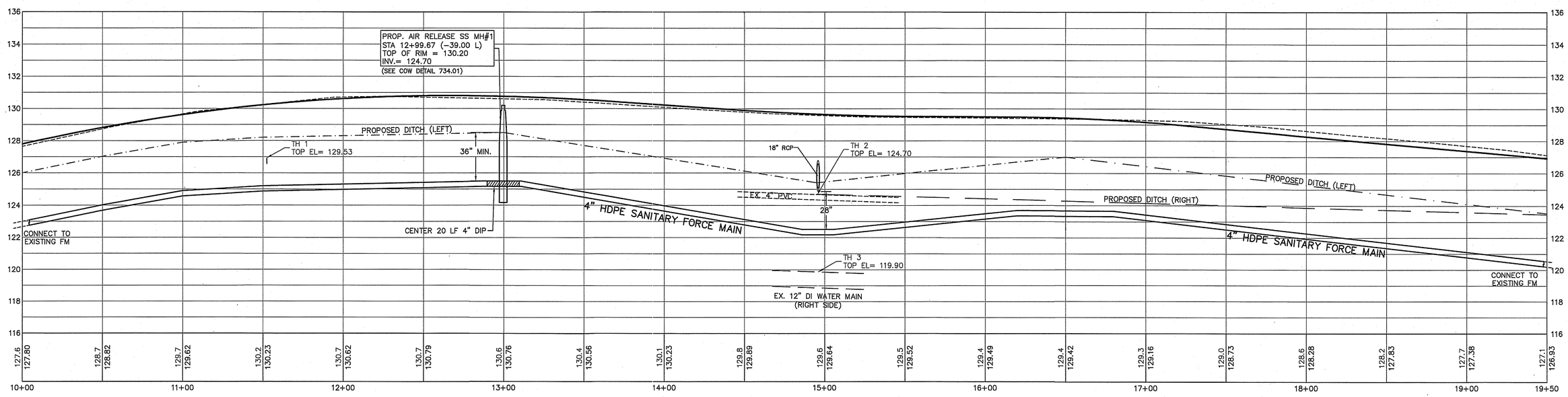
LEGEND:

- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING TELEPHONE PEDESTAL
- EXISTING POWER POLE
- EXISTING TEST HOLES (SUE)
- EXISTING SS FORCE MAIN LINE —FM—
- EXISTING WATER LINE —W—
- EXISTING GAS LINE —G—
- EXISTING U/G TELEPHONE LINE —UGT—
- EXISTING U/G FIBER OPTIC CABLE —FOC—
- EXISTING ROW LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE LINE —X—
- PROPOSED SS FORCE MAIN LINE —FM—
- PROPOSED WATER LINE —W—
- PROPOSED ROW LINE
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED DRAINAGE DITCH





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WILSON, N.C. 27893-1726
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www.bartlett.us.com

SEAL 20106 PROFESSIONAL ENGINEER ROBERT S. BARTLETT III

PLAN & PROFILE
(STA. 10+00 - STA. 19+50)

TIP NO. W-5204C — NC 42

UTILITY CONSTRUCTION PLANS
WILSON, NC

DATE: MARCH 2017	PROJECT: 16-241
SCALE(HORZ): 1 : 30	CLIENT CODE: WC
SCALE(VERT): 1 : 10	CADFILE: 16241CP2A-2
	FIELD BOOK:
	DRAWN BY: RF
	SURVEY BY: KP, JB
REVISIONS: MARCH 9, 2018	
JANUARY 10, 2019	
OCTOBER 11, 2019	

CITY OF WILSON	WILSON COUNTY
NORTH CAROLINA	ZONE:
PIN #	SHEET UC-3

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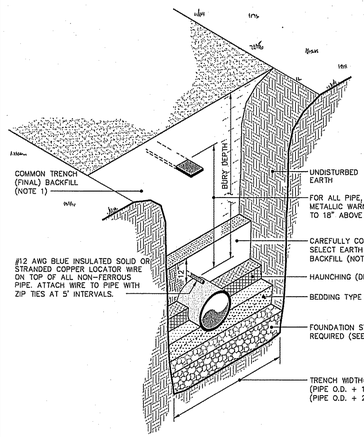
PC2-984



NOTES:

1. See specifications Section 02275, Part 2 – PRODUCTS for composition of Select Earth Backfill and Common Trench Backfill.
2. See detail C01.03 for pipe laid within an existing paved street.

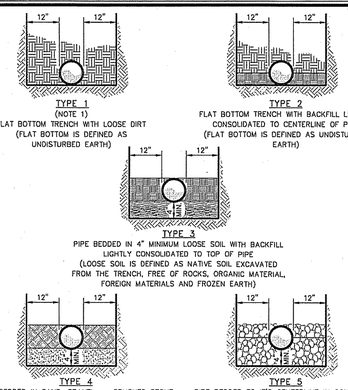
Public Services Departments
1600 Herring Avenue, / P.O. Box 10
Wilson, North Carolina 27894

CITY of WILSON, N.C.
USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY

Voice (252) 399-2465
FAX (252) 399-2453
www.wilsonnc.org

FORCE MAIN & WATER MAIN PIPE LAYING CONDITIONS

SCALE: Not To Scale | DETAIL # 511.01
REVISION DATE: June, 2010 | SHEET # 1 of 1



NOTES:

1. For normal water pipe sizes 14 inch and larger, consideration should be given to the use of laying conditions other than Type 1.
2. Consideration of the pipe-zone embedment conditions included in this figure may be influenced by factors other than pipe strength. For additional information on pipe bedding and backfill, see ANSI/AWWA C600.

Public Services Departments
1600 Herring Avenue, / P.O. Box 10
Wilson, North Carolina 27894

CITY of WILSON, N.C.
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FAX (252) 399-2453
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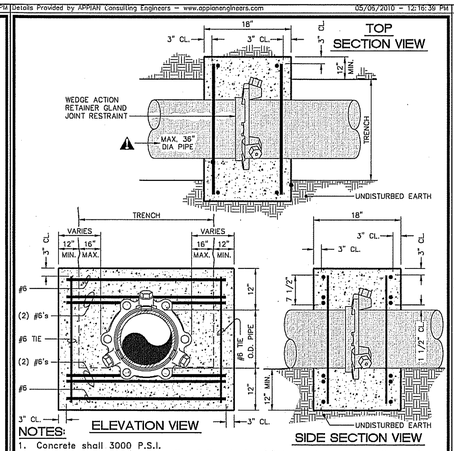
WATER & SANITARY SEWER PIPE EMBEDMENT DETAILS

SCALE: Not To Scale | DETAIL # 511.02
REVISION DATE: June, 2010 | SHEET # 1 of 3



NOTES:

1. Concrete shall 3000 P.S.I.
2. Trench bottom width in vicinity of thrust block(s) installation shall be the minimum width for placement of pipe (Max trench width = pipe O.D.+2 Ft.)
3. Place thrust collar on one full joint of pipe.
4. Last joint of pipe with thrust collar to be mechanical joint pipe with joint restraint system (grip ring).
5. Place thrust collar 2± feet from plug end of pipe.
6. Thrust collars may be used only when approved by City Engineer or Water Resources. Otherwise, designer shall design & specify on the plans length of pipe required to be restrained on each leg. See standard detail 512.06 and design manual.

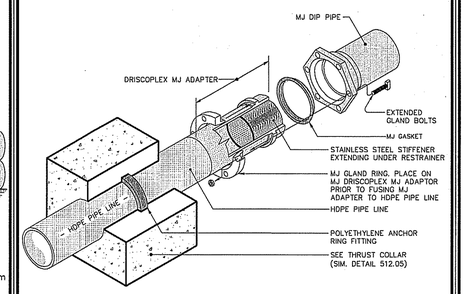
Public Services Departments
1600 Herring Avenue, / P.O. Box 10
Wilson, North Carolina 27894

CITY of WILSON, N.C.
USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY

Voice (252) 399-2465
FAX (252) 399-2453
www.wilsonnc.org

CONCRETE THRUST COLLAR DETAIL

SCALE: Not To Scale | DETAIL # 512.05
REVISION DATE: June, 2010 | SHEET # 1 of 1



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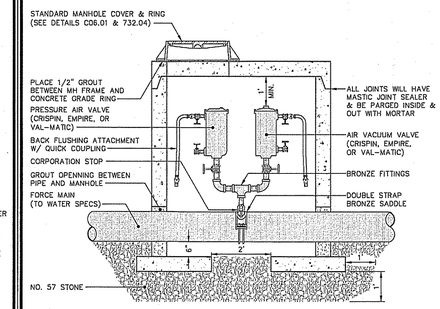
HDPE TO DIP CONNECTION DETAIL

SCALE: Not To Scale | DETAIL # 513.05
REVISION DATE: June, 2010 | SHEET # 1 of 1



NOTES:

1. Force Mains 4" dia. and smaller to be one full joint of D.I.P. thru Air Release Manholes.
2. Precast Manhole – 4'-0" I.D. up to 10' cut. 5'-0" I.D. over 10' cut.
3. Type and size of valves to be determined by the City of Wilson.

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FAX (252) 399-2453
www.wilsonnc.org

COMBINATION AIR VALVE AIR RELEASE MANHOLE

SCALE: Not To Scale | DETAIL # 734.01
REVISION DATE: June, 2010 | SHEET # 1 of 1

BARTLETT ENGINEERING & SURVEYING, PC

NORTH CAROLINA PROFESSIONAL SEAL 20106 ENGINEER ROBERT S. BARTLETT

BARTLETT
ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, N.C. 27893-1726
LICENSE# C-1551
TELE: (252) 399-0704
FAX: (252) 399-0804
www.bartlettus.com

DETAILS

TIP NO. W-5204C
UTILITY CONSTRUCTION PLANS
NC 42 FROM BULLARD CT. TO TARTT'S MILL RD.
WILSON, NORTH CAROLINA

DATE: MARCH 2017
SURVEY BY:
DRAWN BY: RF
CLIENT CODE: WC
PROJECT: 16-241
CADFILE: 16241CP2
SCALE: NTS

REVISIONS
MARCH 9, 2018
JANUARY 10, 2019
OCTOBER 11, 2019

SHEET
UC-4

P:_CADD_LANDPROJECTS\WC\16241\dwg\16241CP2A-2.dwg, Oct 11, 2019 2:09PM EST

PROJ. REFERENCE NO.	SHEET NO.
W-5204C	X-1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY

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

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
10+00			
10+50	12	4	
11+00	11	6	
11+50	11	9	
12+00	15	9	
12+50	15	9	
13+00	10	19	
13+50	13	22	
14+00	21	19	
14+50	28	38	
15+00	48	70	
15+50	61	65	
16+00	59	41	
16+50	74	32	
17+00	94	27	
17+50	101	26	
18+00	87	26	
18+50	63	28	
19+00	47	30	
19+50	37	25	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

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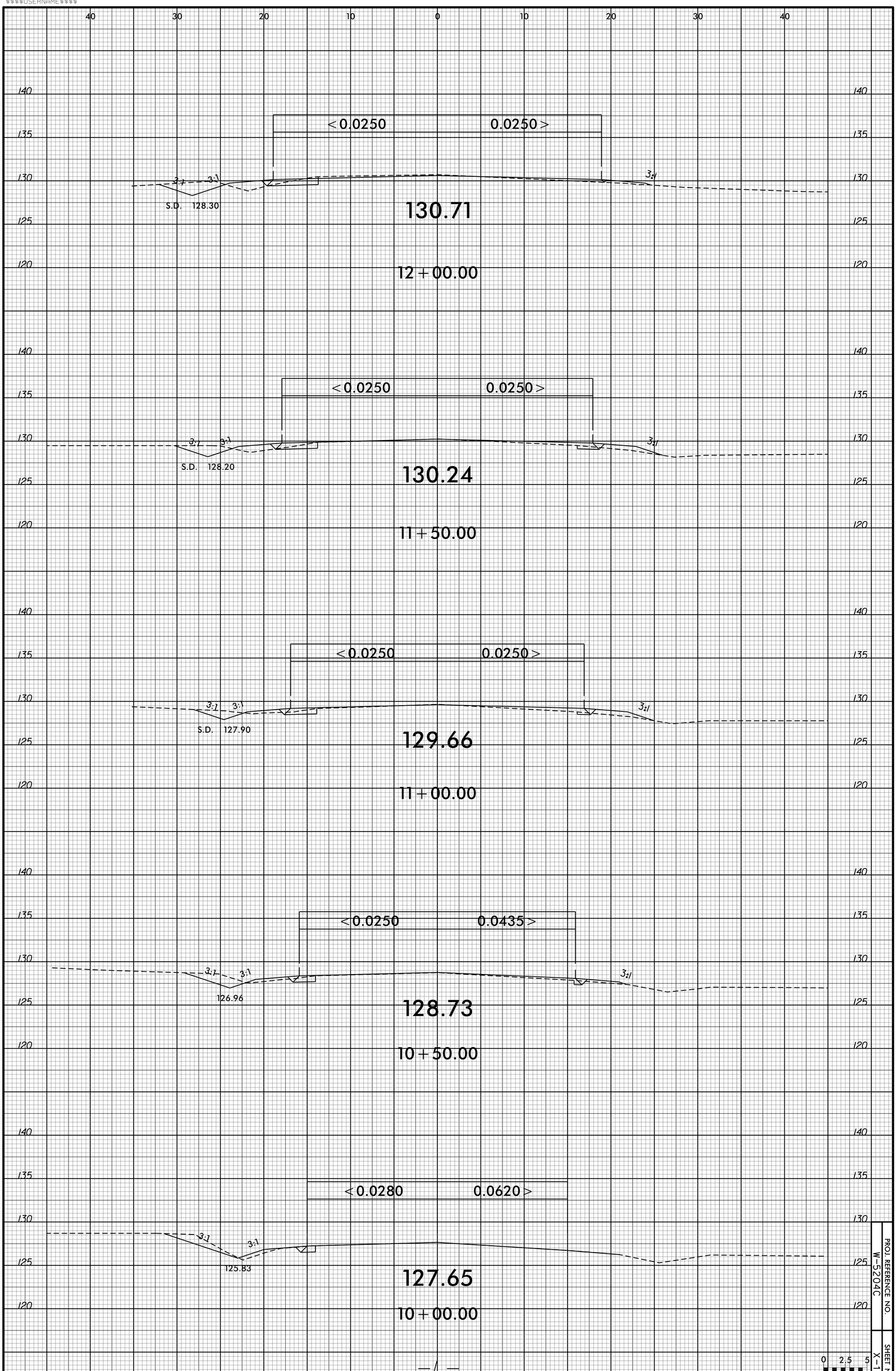

PROJ. REFERENCE NO.
W-5204C

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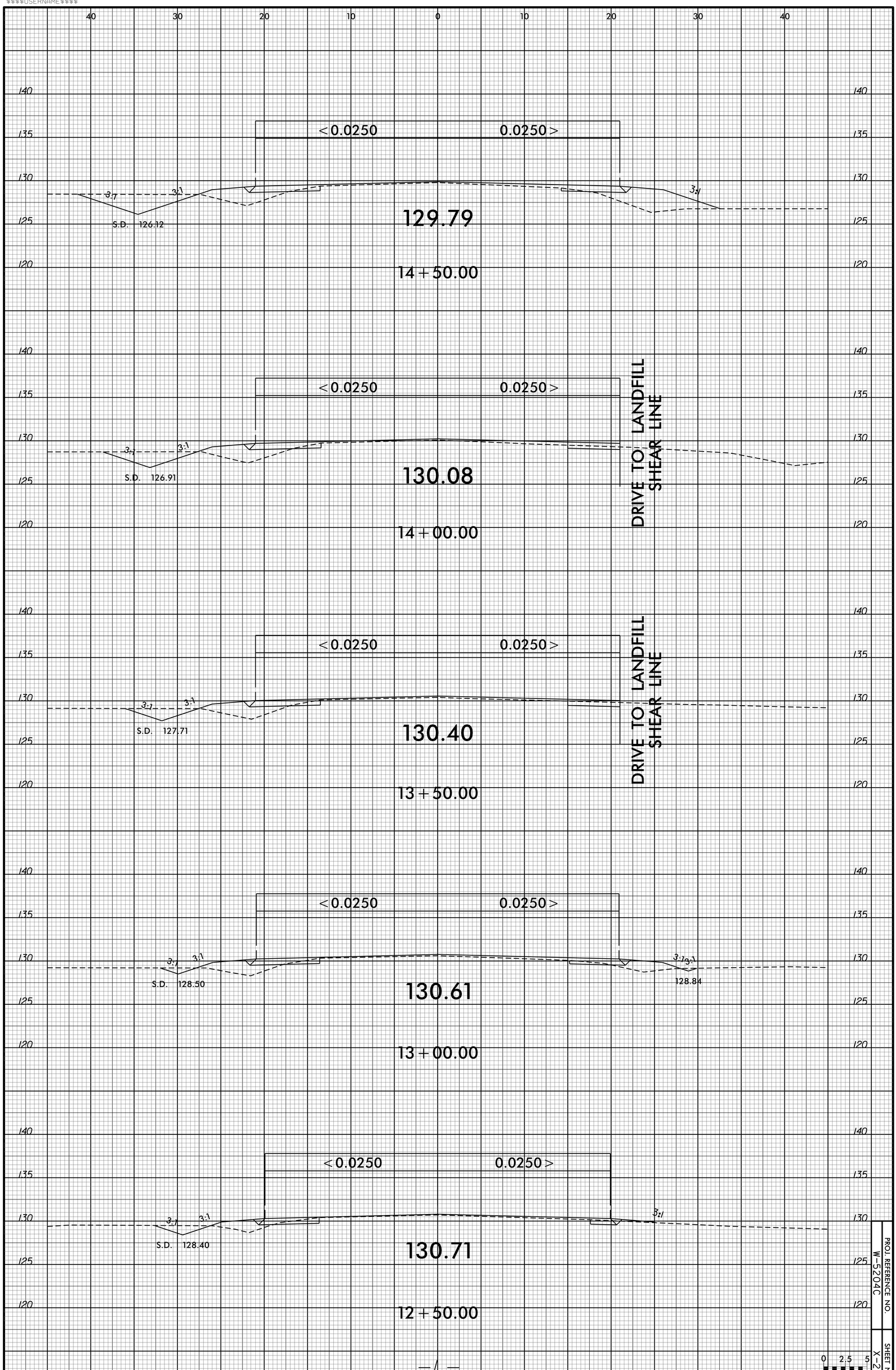

PROJ. REFERENCE NO.
W-5204C

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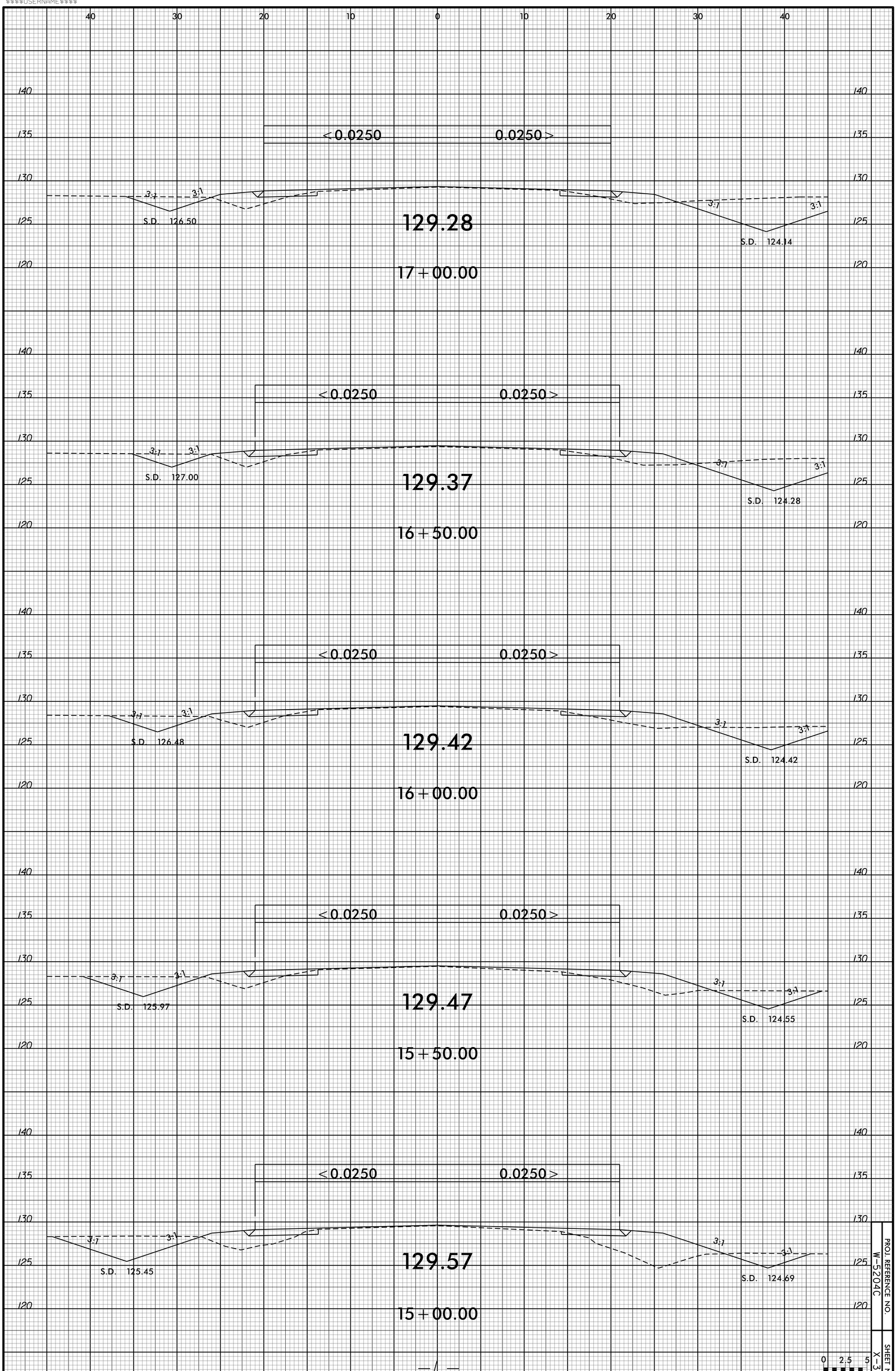

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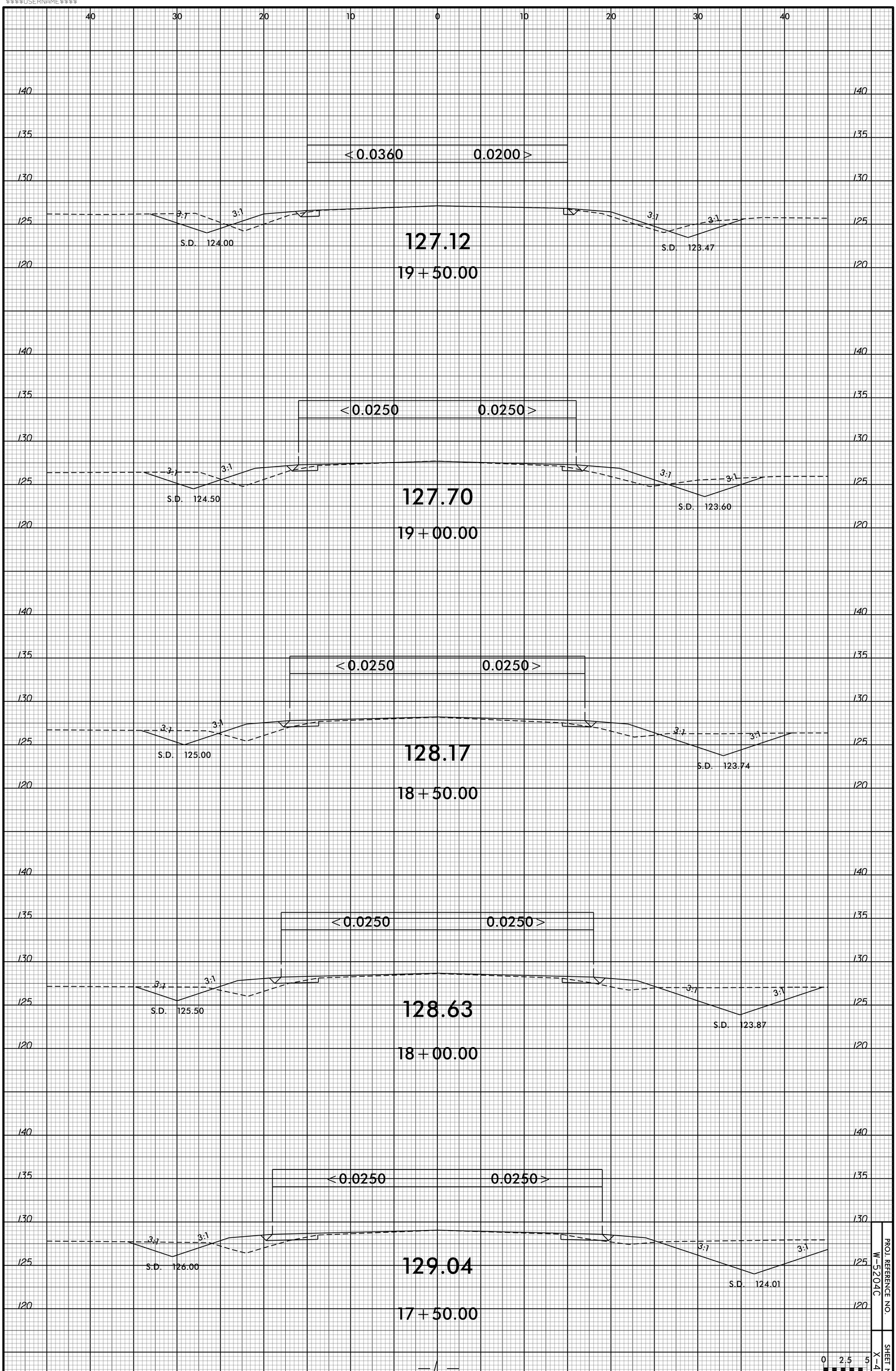

PROJ. REFERENCE NO.
W-5204C

SHEET NO.
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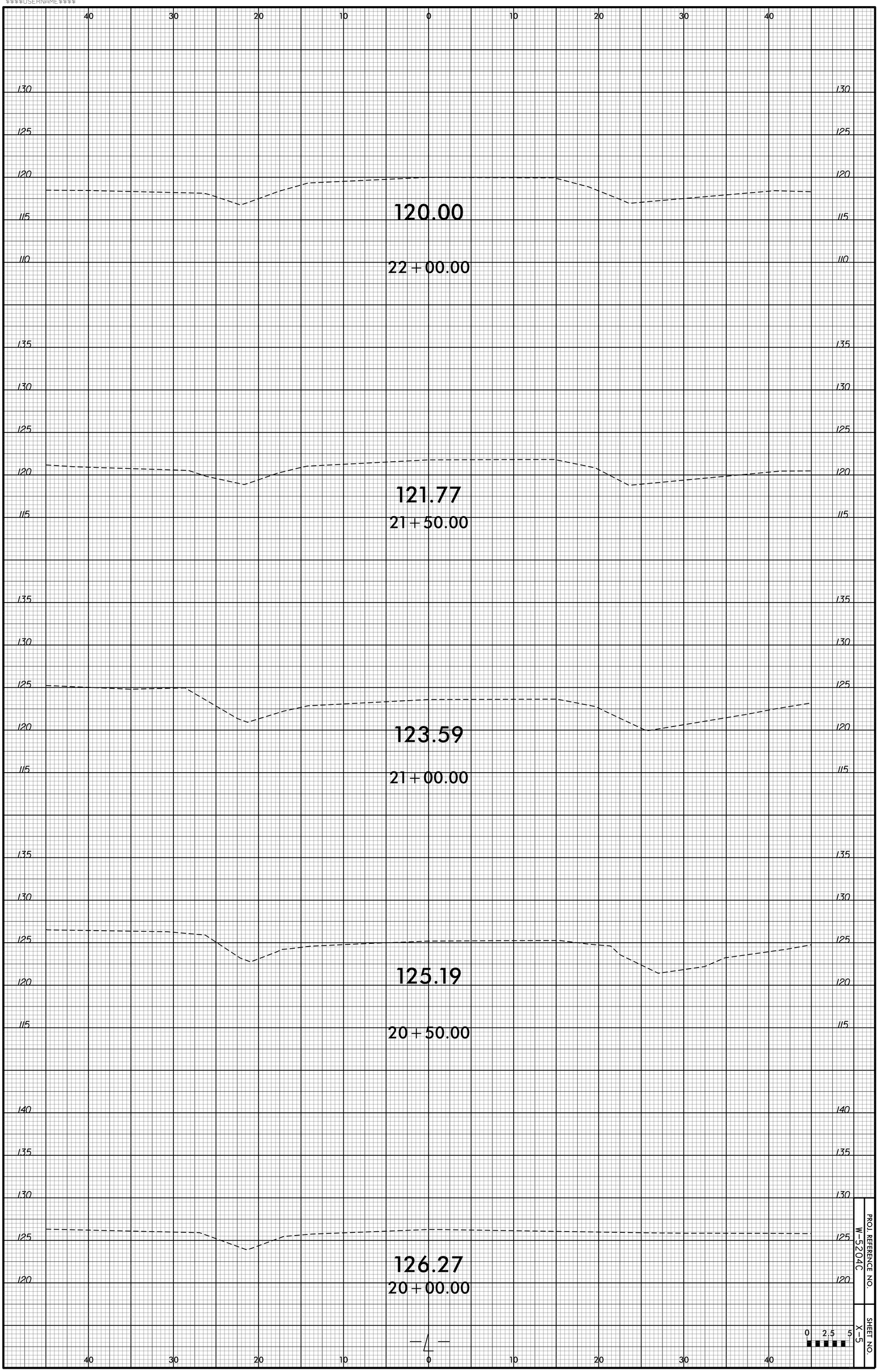
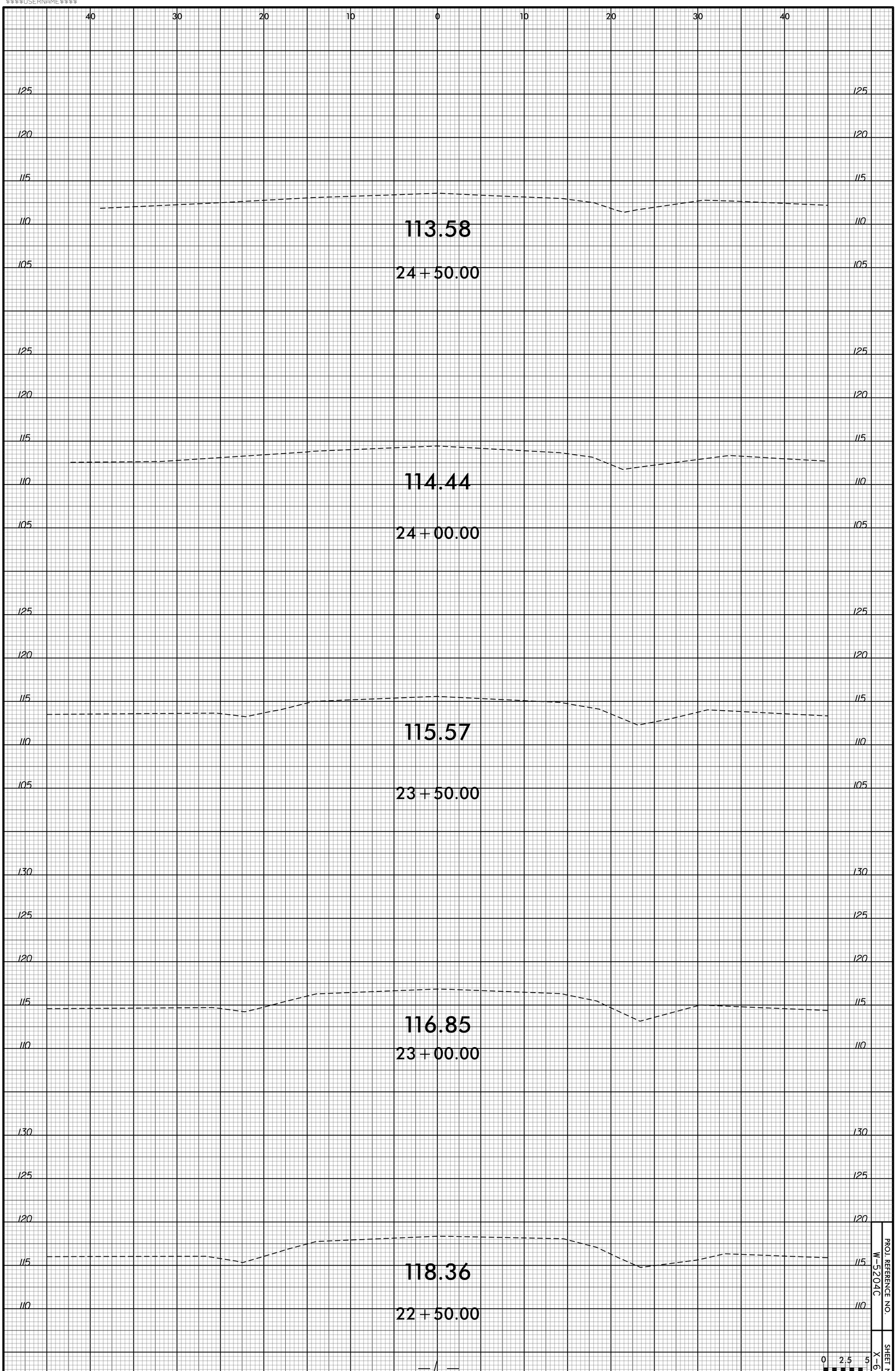
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