This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.
This file or an individual page shall not be considered a certified document.

See Sheet 1-A For Index of Sheets

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5804A	1	

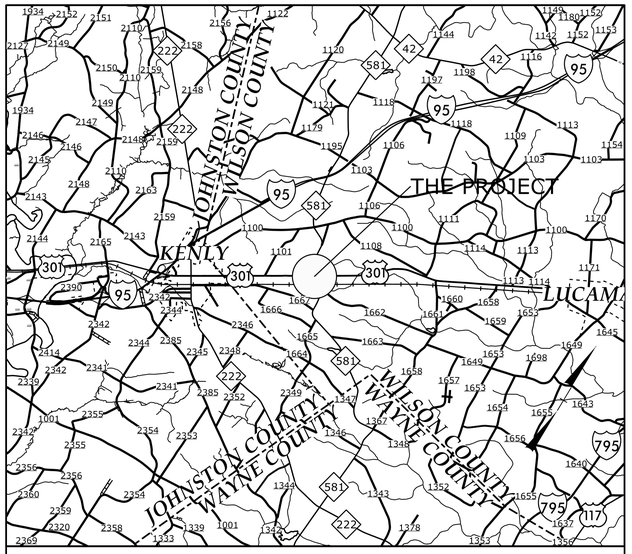
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
48949.1.2	0301046	PE
48949.2.2	0301046	R/W&UTILITY
48949.3.2	0301046	CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

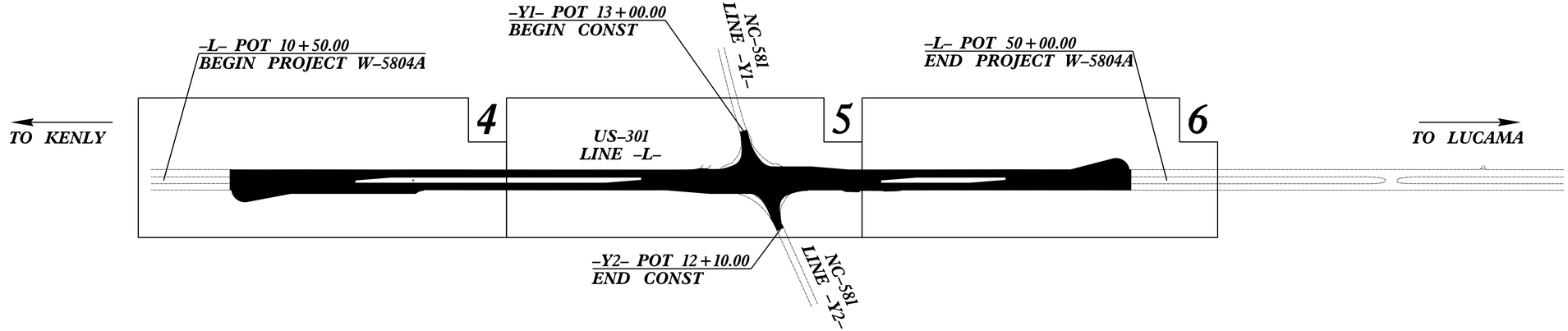
LOCATION: INTERSECTION OF US–301 & NC–581

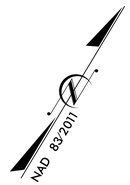
TYPE OF WORK: GRADING, DRAINAGE AND PAVING



VICINITY MAP

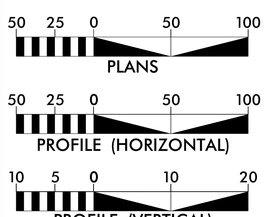
SEE TRANSPORTATION MANAGEMENT PLAN FOR OFFSITE DETOURS





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 9700

V = 60 MPH

FUNCTIONAL CLASS
OTHER PRINCIPAL ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5804A = 0.748 MILES
TOTAL LENGTH TIP PROJECT W-5804A = 0.748 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:
MARCH 8, 2021

LETTING DATE:
DECEMBER 14, 2021

KEVIN BOWEN, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048034 ERIK P. SELLER P.E.

DocuSigned by: Erik Seiler 914DF8C33CF245D...

SIGNATURE:

ROADWAY DESIGN ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 40774 NORWOOD A. GAINEY P.E.

DocuSigned by: Norwood A Gainey III EDD8B8F0A4D0448...

SIGNATURE:

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

CONTRACT: DD00371

TIP PROJECT: W–5804A

05-NOV-2021 10:11
S:\DDC\W-5804A\Roadway\Proj\W-5804A_DDC4_TSH.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	1-A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY III

11/8/2021

DocuSigned by:
Norwood A Gainey III
E0D88850A45044B...

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
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-2	ROADWAY DETAILS - ISLAND DETAILS
2C-1	SPECIAL DETAIL - CONCRETE ENDWALL AT SKEW
3B-1	ROADWAY SUMMARIES - EARTHWORK, PARCEL INDEX, AND REMOVAL OF EXISTING ASPHALT PAVEMENT.
3D-1 THRU 3D-3	DRAINAGE SUMMARIES
4 THRU 6	PLAN SHEET
RW-1 THRU RW-6	SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
TMP-1 THRU TMP-6	TRANSPORTATION MANAGEMENT PLANS
PM-1 THRU PM-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-10	SIGNING PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-16	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
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
840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.14 CONCRETE DROP INLET - 12" THRU 30" PIPE
840.15 BRICK DROP INLET - 12" THRU 30" PIPE
840.16 DROP INLET FRAME AND GRATES - FOR USE WITH STD. DWG 840.14 AND 840.15
840.18 CONCRETE GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.19 CONCRETE GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
840.22 FRAMES AND WIDE SLOT SAG GRATES
840.24 FRAMES AND NARROW SLOT SAG GRATES
840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
840.27 BRICK GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
840.28 BRICK GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
840.29 FRAMES AND NARROW SLOT FLAT GRATES
840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
840.45 PRECAST DRAINAGE STRUCTURE
840.46 TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
840.66 DRAINAGE STRUCTURE STEPS
840.71 CONCRETE AND BRICK PIPE PLUG
840.72 PIPE COLLAR
852.01 CONCRETE ISLANDS
852.06 METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS
876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

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.

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:
SUDDENLINK, CITY OF WILSON (POWER), WILSON COUNTY WATER AND CENTURYLINK/LUMEN.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

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

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

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

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- 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
- 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
- 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 & PROJECT CONTROL:

- Secondary Horiz and Vert Control Point
- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Exist Permanent Easment Pin and Cap
- New Permanent Easement Pin and Cap
- Vertical Benchmark
- Existing Right of Way Marker
- Existing Right of Way Line
- New Right of Way Line — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — C/A
- Existing Control of Access — C/A
- New Control of Access — C/A
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Temporary Drainage Easement — TDE
- New Permanent Drainage Easement — PDE
- New Permanent Drainage / Utility Easement — DUE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

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

VEGETATION:

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

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — 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
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?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 LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

6299

PAVEMENT SCHEDULE

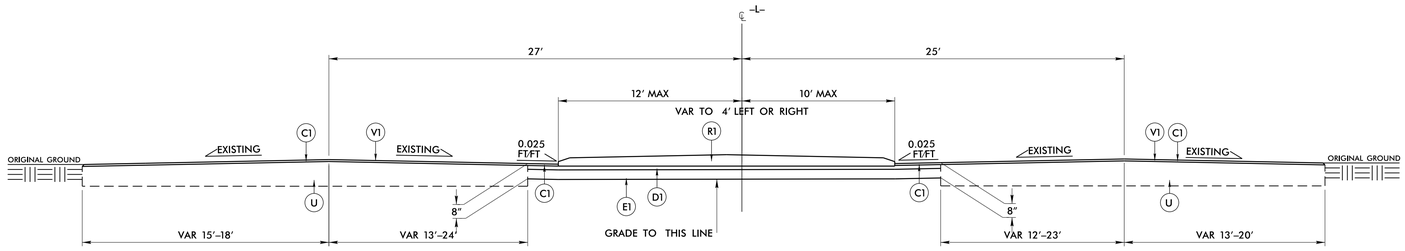
C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	E1	PROP. APPROX. 4″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.	R1	5″ MONOLITHIC CONCRETE ISLAND (KEYED IN)	V1	MILLING ASPHALT PAVEMENT 1.5″
		T	EARTH MATERIAL.	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	2A-1

ROADWAY DESIGN ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 040774 ENGINEER NORWOOD A GAINEY III
DocuSigned by: Norwood A Gainey III
E0D89B80A45044B...

PAVEMENT DESIGN ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 040774 ENGINEER NORWOOD A GAINEY III
DocuSigned by: Norwood A Gainey III
E0D89B80A45044B...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



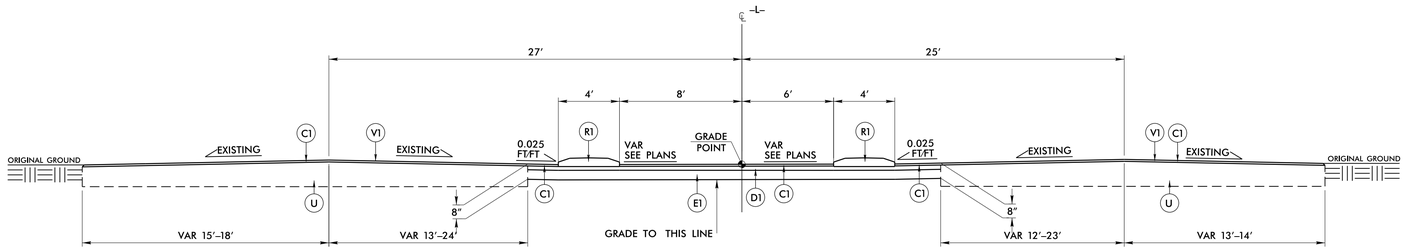
USE TYPICAL SECTION NO. 1

–L– STA 13+20 TO –L– STA 13+95
–L– STA 14+95 TO –L– STA 17+95
–L– STA 29+40 TO –L– STA 32+35
–L– STA 33+35 TO –L– STA 34+75
–L– STA 35+75 TO –L– STA 38+65
–L– STA 43+75 TO –L– STA 46+75
–L– STA 47+75 TO –L– STA 48+50

NOTE
–L– STA 13+00 TO –L– STA 13+20
–L– STA 48+50 TO –L– STA 49+00
MILL 1.5″ AND RESURFACE 1.5″ S9.5C

NOTES
–Y1– STA 13+00 TO –Y1– STA 14+61
–Y2– STA 10+37 TO –L– STA 12+10
SEE PLANS FOR PAVEMENT REMOVAL AND PROPOSED ISLANDS
MILL 1.5″ AND RESURFACE 1.5″ S9.5C
REMOVE EXISTING CONC ISLANDS AND CURBS
FILL EXISTING ISLANDS AREAS WITH 4″ B25.0C, 2.5″ I19.0C AND 1.5″ S9.5C

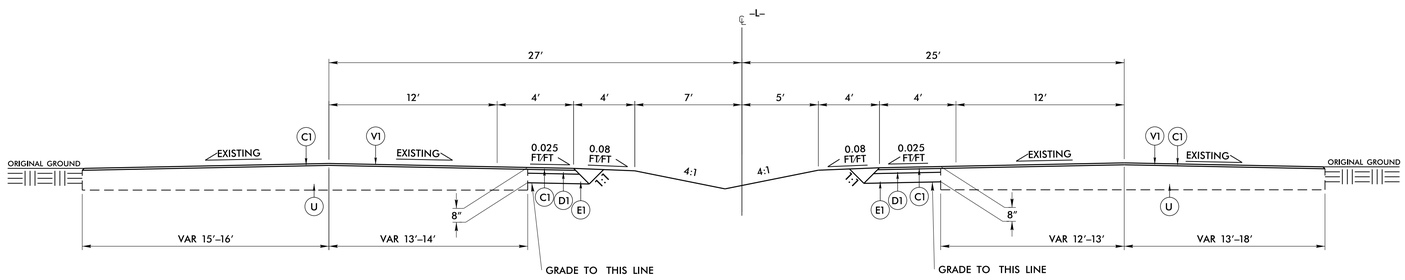
TYPICAL SECTION NO. 1



USE TYPICAL SECTION NO. 2

–L– STA 13+95 TO –L– STA 14+95
–L– STA 32+35 TO –L– STA 33+35
–L– STA 34+75 TO –L– STA 35+75 (NO GRADE)
–L– STA 46+75 TO –L– STA 47+75

TYPICAL SECTION NO. 2



USE TYPICAL SECTION NO. 3

–L– STA 17+95 TO –L– STA 29+40
–L– STA 38+65 TO –L– STA 43+75

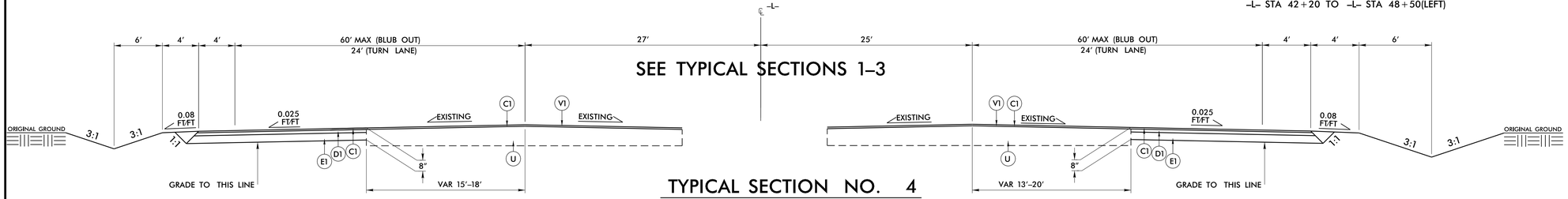
TYPICAL SECTION NO. 3

05-NOV-2021 10:11
S:\DOT\W-5804A\Roadway\Proj\W-5804A_ddc4_TYP.dgn
$$USER$$

6299

USE TYPICAL SECTION NO. 4

-L- STA 13+20 TO -L- STA 20+24(RIGHT)
-L- STA 30+50 TO -L- STA 33+56(RIGHT)
-L- STA 34+50 TO -L- STA 37+50(LEFT)
-L- STA 42+20 TO -L- STA 48+50(LEFT)



TYPICAL SECTION NO. 4

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	2A-2

ROADWAY DESIGN ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL SEAL 040774 ENGINEER NORWOOD A GAINEY III

DocuSigned by: Norwood A Gainey III

PAVEMENT DESIGN ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL SEAL 040774 ENGINEER NORWOOD A GAINEY III

DocuSigned by: Norwood A Gainey III

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PAVEMENT SCHEDULE	
C1	1.5" S9.5C
D1	2.5" I19.0C
E1	4" B25.0C
R1	ISLAND
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	1.5" MILLING

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

05-NOV-2021 10:11
S:\DOT\W-5804A\Roadway\Proj\W-5804A_ddc4_TYP.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	2B-1

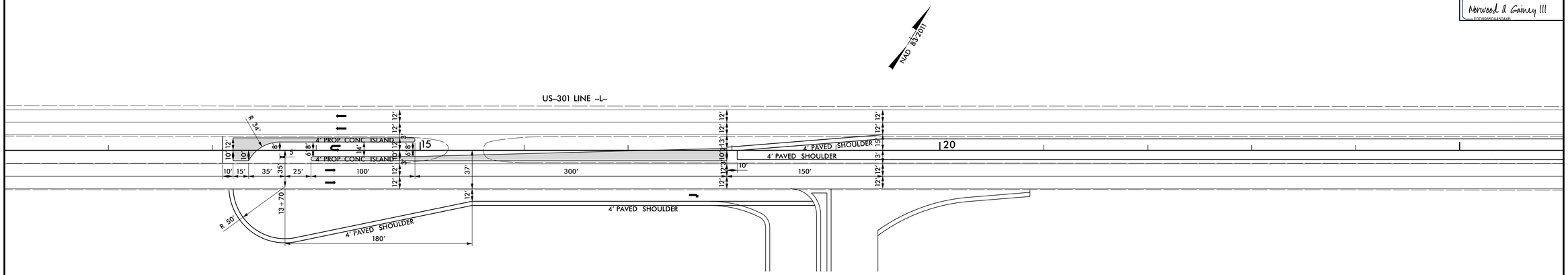
ROADWAY DESIGN ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY III

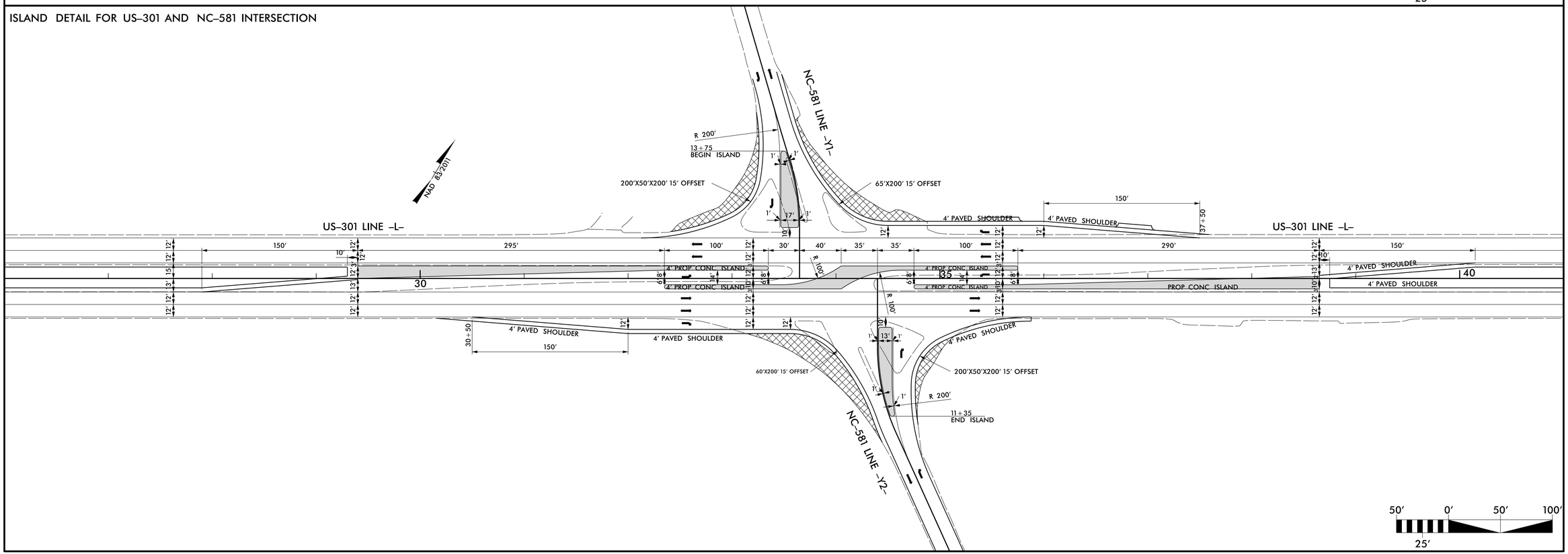
DocuSigned by: Norwood A Gainey III

ISLAND DETAIL FOR US–301 SOUTHERN BULB–OUT



50' 0' 50' 100'
25'

ISLAND DETAIL FOR US–301 AND NC–581 INTERSECTION



50' 0' 50' 100'
25'

05-NOV-2021 10:11
R:\Roadway\Proj\W-5804A_DDC4_ISLAND DETAIL_PSH.dgn
$$$$USERNAME$$$$

ISLAND DETAIL FOR US–301 NORTHERN BULB–OUT

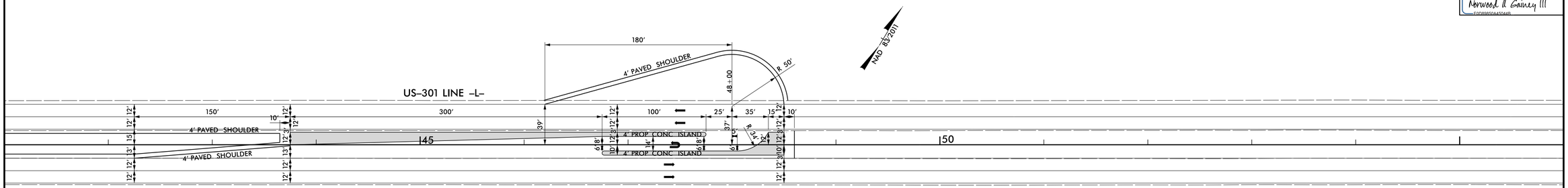
PROJECT REFERENCE NO.	SHEET NO.
W–5804A	2B–2

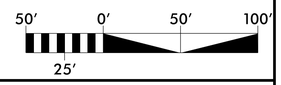
ROADWAY DESIGN ENGINEER

11/8/2021

NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY III

DocuSigned by: Norwood A Gainey III





DDC4

05–NOV–2021 10:11
R:\Roadway\Proj\W–5804A_DDC4_ISLAND DETAIL_PSH.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	2C-1

END ELEVATION

DOWEL
BAR- "X"

DOWELS IN ENDWALL WITH REINFORCED CONCRETE PIPE

LOC.	PIPE DIA.	SINGLE PIPE							DOUBLE PIPE							
		15"	18"	24"	30"	36"	42"	48"	15"	18"	24"	30"	36"	42"	48"	
	BARS	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	Y*
G1	QTY.	2	2	2	2	3	3	4	2	2	2	2	3	3	4	
S	QTY.	-	-	-	-	-	-	-								
G2	QTY.	3	4	4	5	6	6	7	3	4	4	5	6	6	7	
TOT. lbs.		11.7	13.9	13.9	16.3	20.9	60.4	70.3	11.7	13.9	13.9	20.9	25.6	85.3	102.1	

DOWELS IN ENDWALL WITH CORRUGATED STEEL PIPE

LOC.	PIPE DIA.	SINGLE PIPE						DOUBLE PIPE						
		16"	18"	24"	32"	36"	40"	48"	16"	18"	24"	32"	36"	40"	48"	
	BARS	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	"X"	Y*
G1	QTY.	2	2	2	3	3	3	4	2	2	2	3	3	3	4	
S	QTY.	-	-	-	-	-	-	-								
G2	QTY.	3	3	4	5	5	6	7	3	3	4	5	5	6	7	
TOT. lbs.		11.7	11.7	13.9	16.3	18.5	57.4	67.0	11.7	5.3	13.9	16.3	23.1	80.7	92.8	

DIMENSIONS AND CONCRETE QUANTITIES

USING CONCRETE PIPE

D	COMMON DIMS. H	B	T	SINGLE PIPE G1	G2	L 30	YD³	DOUBLE PIPE S	G1	G2	S	S 30	L 30	YD³
15"	3'-4"	1'-8"	1⅞"	2'-9"	3'-2"	5'-11"	0.792	2'-2"	2'-9"	3'-2"	2'-2"	2'-6"	8'-5"	1.054
18"	3'-7"	1'-10"	2"	3'-2"	3'-8"	6'-10"	1.023	2'-7"	3'-2"	3'-8¼"	2'-7"	2'-11¾"	9'-10"	1.390
24"	4'-2"	2'-1"	2½"	4'-0"	4'-8"	8'-8"	1.613	3'-5"	4'-0"	4'-8"	3'-5"	3'-11½"	12'-8"	2.207
30"	4'-9"	2'-5"	2¾"	4'-7"	5'-4"	9'-11"	2.289	4'-3"	4'-7"	5'-4"	4'-3"	4'-10¾"	14'-10"	3.186
36"	5'-3"	2'-8"	3"	5'-6"	6'-4"	11'-10"	3.220	5'-0"	5'-6"	6'-4⅜"	5'-0"	5'-9¼"	17'-8"	4.447
42"	5'-10"	2'-11"	3½"	6'-4"	7'-4"	13'-8"	4.375	5'-10"	6'-4"	7'-4"	5'-10"	6'-8¾"	20'-5"	6.012
48"	6'-5"	3'-3"	4"	7'-2"	8'-3"	15'-5"	5.580	6'-8"	7'-2"	8'-3¼"	6'-8"	7'-8¼"	23'-2"	8.062

USING CORRUGATED STEEL PIPE

D	COMMON DIMS. H	B	SINGLE PIPE G1	G2	L 30	YD³	DOUBLE PIPE S	G1	G2	S	S 30	L 30	YD³
15"	3'-0"	1'-6"	2'-6"	2'-11"	5'-5"	0.616	2'-6"	2'-11"	2'-0"	2'-4"	7'-9"	0.848	
18"	3'-3"	1'-8"	2'-11"	3'-4"	6'-3"	0.816	2'-11⅛"	3'-4⅛"	2'-3½"	2'-8"	8'-11"	1.109	
24"	3'-9"	1'-11"	3'-8"	4'-3"	7'-11"	1.282	3'-8¼"	4'-3¼"	3'-0"	3'-5½"	11'-5"	1.747	
30"	4'-2"	2'-2"	4'-5"	5'-1"	9'-6"	1.868	4'-5⅛"	5'-1⅛"	3'-8"	4'-2¾"	13'-9"	2.531	
36"	4'-8"	2'-5"	5'-2"	6'-0"	11'-2"	2.621	5'-2⅜"	6'-0⅜"	4'-3"	4'-10¼"	16'-5"	3.596	
42"	5'-3"	2'-8"	5'-11"	6'-10"	12'-9"	3.517	5'-11¼"	6'-10⅛"	5'-3"	6'-0¾"	18'-10"	4.820	
48"	5'-9"	2'-11"	6'-8"	7'-8"	14'-4"	4.591	6'-8⅜"	7'-6⅝"	6'-0"	6'-11¼"	21'-4"	6.320	

*SEE SHEET 2

PLAN

ELEVATION

FOOTING (IF CONST. JOINT IS USED)

GENERAL NOTES:

* ALL CORNERS TO BE CHAMFERED 1".
* THE CONTRACTOR WILL BE REQUIRED TO PLACE 2 - #6 BARS "Y" IN THE TOP OF ALL ENDWALLS FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL.
* FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
* WALL THICKNESS (T) SHOWN IS NOT TO BE INTERPRETED TO MEAN THE THICKNESS ACCEPTABLE, BUT ARE USED ONLY IN COMPUTING ENDWALL QUANTITIES.
* IF CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE, BAR X (DOWELS SHALL BE PLACED IN THE BASE AS SHOWN ON PLANS. SPACING OF BARS TO BE APPROXIMATELY 12" CENTERS UNLESS ENGINEER DIRECTS OTHERWISE.
* WHEN CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE AND POURS BASE SEPERATELY, THE TOP BASE SHALL BE LEFT ROUGH.
* WHEN SKEW ANGLE OF PIPE IS OVER/UNDER 30° USE G-1 DIMENSION FOR 30° PLUS/MINUS 3" FOR EACH 5° OVER/UNDER 30°. G2 DIMENSION WILL BE THE NEW DIMENSION DIVIDED BY THE COSINE OF THE ANGLE OF PIPE SKEW.
* CLASS "B" CONCRETE SHALL BE USED.

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

ENGLISH DETAIL DRAWING FOR
CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE

SHEET 2 OF 2 — 838d02s1

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

ENGLISH DETAIL DRAWING FOR
CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE 60° OR 120° SKEW

SHEET 1 OF 2 — 838d02s1

SEAL 022966 ENGINEER Joel S. Howerton

DocuSigned by: Joel Howerton, P.E. B73F3D17DCDC45F...

11/3/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SEE PLATE FOR TITLE

ORIGINAL BY: STD.NO.838.01 DATE: 4-17-99
MODIFIED BY: T.S. SPELL DATE: 12-10-08
CHECKED BY: DATE:
FILE SPEC.: s:user/details/metric/stand/838d02s1.dgn

09-JAN-2019 07:36
S:\Contracts\Special Details\jhowerton\838d02 15in thru 48in 60deg skew.dgn
jhowerton
AT CSD-292595

COMPUTED BY:	D.R.ETHRIDGE	DATE:	11/8/2021
CHECKED BY:	D.R.ETHRIDGE	DATE:	11/8/2021

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

Volumes in Cubic Yards

STATION TO STATION	Uncl. Excav.	Undercut	Embank +%	Borrow	Waste
-L- 10+50.00 TO 33+65.00	1088		1305	761	544
-Y1- 13+00.00 TO 15+00.00	172				172
SUBTOTAL	1260		1305	761	716
-L- 33+65.00 TO 50+00.00	659		1048	719	330
-Y2- 10+00.00 TO 12+10.00	152				152
SUBTOTAL	811		1048	719	482
TOTAL	2071		2353	1480	1198
WASTE TO REPLACE BORROW				-162	-162
PROJECT TOTAL	2071		2353	1318	1036
ESTIMATE TO REPLACE TOPSOIL ON BORROW PIT				66	
GRAND TOTAL	2071		2353	1384	1036
SAY	2100			1400	
ESTIMATE UNDERCUT		100			

PARCEL INDEX

PARCEL	SHEET	PROPERTY OWNERS NAMES
1	4&5	NUTRIEN AG SOLUTIONS, INC.
2	4&5	SCOTT H.F. CRAWFORD ET, UX
3	5	JAMES ANTHONY ALOI
4	5&6	JAMES SARGENT, ET UX
5	6	DEBORAH K THOMPSON, JAMES SARGENT, ET UX

SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT

STATION TO STATION	SQUARE YARDS
-L- 32+41 TO -Y1- 13+32	150
-Y1- 13+48 TO -L- 34+86	190
-L- 33+14 TO -Y2- 11+54	240
-Y2- 11+53 TO -L- 35+14	60
TOTAL	640
SAY	640

COMPUTED BY: D.R.Ethridge DATE: 11/8/2021
CHECKED BY: D.R.Ethridge DATE: 11/8/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5804A	3D-1

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	SIDE DRAIN PIPE THICKNESS OR GAUGE	C.S. PIPE SIZE	C.S. PIPE THICKNESS OR GAUGE	R.C. PIPE CLASS III	R.C. PIPE CLASS IV	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. A + (1.3 X COL. B) LIN. FT. A	LIN. FT. B	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	GRATED D.I. TYPE "B" STD. 840.18 OR 840.27	GRATED D.I. TYPE "D" STD. 840.19 OR 840.28	FRAME WITH TWO WIDE SLOT SAG GRATES STD. 840.22	FRAME WITH TWO NARROW SLOT SAG GRATES STD. 840.24	FRAME WITH TWO NARROW SLOT FLAT GRATES STD. 840.29	T.B. GRATED D.I. STD. 840.35	FLOWABLE FILL (CY)	PIPE CLEAN OUT (EA)	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- 13+50.00	LT	418		213.20'	211.30'								60'			1						1		1	1							2				35'	
		418	416		211.30'	211.00'																														
-L- 14+08.00	RT	416		214.00'	211.00'								20'			1						1		1	1											
		416	417		211.00'	211.10'																														
-L- 14+08.00	LT	417		214.60'	211.10'											1						1		1	1											
		416	415		211.00'	210.80'							76'																							
-L- 14+85.00	RT	415		214.80'	210.80'											1						1		1	1											
		415	414		210.80'	210.80'							4'																							
-L- 14+92.00	RT	414		214.80'	210.80'											1						1		1	1											
		414	411		210.80'	210.60'							72'																							
-L- 15+65.00	RT	411		215.60'	210.60'											1						1		1	1										198'	
		411	410		210.60'	210.80'								68'																						
-L- 15+88.39	RT	410			210.80'										4.375																					SEE DETIAL ON SHEET 2C-1
		411	412		210.60'	210.30'								88'																						
-L- 15+28.86	LT	412			210.30'																															
		411	407		210.60'	214.40'							84'																							
-L- 16+50.00	RT	407		216.30'	214.40'											1						1		1	1											
		407	404		214.40'	214.50'							4'																							
-L- 16+50.00	RT	404		216.40'	214.50'											1						1		1	1											
		407	405		214.40'	215.00'							72'																							
-L- 17+25.00	RT	405		216.90'	215.00'											1						1		1	1											
		405	403		215.00'	215.40'							124'																							
-L- 18+50.00	RT	403		217.30'	215.40'											1												1	1				2			36'	
		403	402		215.40'	216.30'							100'																							
-L- 19+50.00	CL	402		218.20'	216.30'											1												1	1							
-L- 27+88.00	CL	501		222.70'	220.00'											1												1	1							
		501	502		220.00'	218.80'							48'																							
-L- 28+38.00	LT	502		222.50'	218.80'											1													1		1				57'	
		502	503		218.80'	218.40'							64'																							
-L- 28+56.38	LT	503			218.40'																															
-L- 30+48.00	LT	504		219.60'	216.80'											1						1		1	1											
		504	505		216.80'	216.20'							4'																							
-L- 30+48.00	LT	505		218.90'	216.20'											1						1		1	1										13'	
		505	506		216.20'	214.20'							128'																							
-L- 31+79.02	LT	506		216.90'	214.20'											1						1		1	1							3			57'	
		506	507		214.20'	212.30'							64'																							
-L- 32+45.00	LT	507		215.10'	212.30'											1						1		1	1											
		507	508		212.30'	209.80'							64'																							
-L- 33+10.00	LT	508		214.30'	209.80'											1						1		1	1							4			16'	
-L- 31+41.05	LT	528			211.80'																											3			18'	
		528	530		211.80'	211.60'								76'																						
-L- 32+13.91	LT	530		215.70'	211.60'											1												1	1							
		530	533		211.60'	207.70'								96'																						
SHEET 3D-1 TOTAL													988'	172'	4.375	19						14		14	14	2	3	5				14			430'	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.) SLOT)	GRATED DROP INLET (NARROW
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

COMPUTED BY: D.R.Ethridge DATE: 11/8/2021
CHECKED BY: D.R.Ethridge DATE: 11/8/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5804A	3D-2

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 | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE THICKNESS OR GAUGE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS III 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES (TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. A + (1.5 X COL. B)) LIN. FT. A | B | PER EACH (0' THRU 5.0') | 5.0' THRU 10.0' | 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | GRATED D.I. TYPE "B" STD. 840.18 OR 840.27 | GRATED D.I. TYPE "D" STD. 840.19 OR 840.28 | FRAME WITH TWO WIDE SLOT SAG GRATES STD. 840.22 | FRAME WITH TWO NARROW SLOT SAG GRATES STD. 840.24 | FRAME WITH TWO NARROW SLOT FLAT GRATES STD. 840.29 | T.B. GRATED D.I. STD. 840.35 | FLOWABLE FILL (CY) | PIPE CLEAN OUT (EA) | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

COMPUTED BY: D.R.Ethridge DATE: 11/8/2021
CHECKED BY: D.R.Ethridge DATE: 11/8/2021

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5804A	3D-3

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 | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE THICKNESS OR GAUGE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS III 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. A + (1.5 X COL. B) LIN. FT. A | B | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | GRATED D.I. TYPE "B" STD. 840.18 OR 840.27 | GRATED D.I. TYPE "D" STD. 840.19 OR 840.28 | FRAME WITH TWO WIDE SLOT SAG GRATES STD. 840.22 | FRAME WITH TWO NARROW SLOT SAG GRATES STD. 840.24 | FRAME WITH TWO NARROW SLOT FLAT GRATES STD. 840.29 | T.B. GRATED D.I. STD. 840.35 | FLOWABLE FILL (CY) | PIPE CLEAN OUT (EA) | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	04
RW SHEET NO.	04

ROADWAY DESIGN ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
E7D1B9850A4504B...

HYDRAULICS ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 048034 ENGINEER ERIK P. SEILER
DocuSigned by: Erik Seiler
914DF6C33CF245D...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SCOTT H.F. CRAWFORD ET, UX
DB 2300 PG 765
PB 7 PG 18

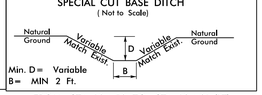
NAD 83/2011

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 13+00 TO STA. 15+50 (RT)
FROM STA. 15+84 TO STA. 17+95 (RT)

DETAIL A
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM STA. 10+50 TO STA. 19+91 (LT)

–L– 10+50.00
75 & 85 LT

–L– POT 10+50.00
BEGIN PROJECT W–5804A

SPECIAL CUT BASE DITCH
SEE DETAIL A

WOODS

BILLBOARD

EXISTING R/W

Charter Communication

Century Link (2)

TV FO

US 301 SB 29' BST

US 301 NB 26' BST

W-5804A-1

–L– 14+00.00
85.00 LT

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

PIPE TYPE
416–417 15" RCP–IV
407–404 15" RCP–IV
415–414 15" RCP–IV

–L– 15+00.00
90.00 LT

CL I RIP RAP
EST. 26 TON
EST. 49 SY GF

–L– 16+00.00
90.00 LT

–L– 18+00.00
85.00 LT
–L– 18+00.00
75.00 LT

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

BM-1

15" RCP

418 DI
417 DI
4' PROP CONC ISLAND
15" RCP–IV
42" RCP–IV
REMOVE
404 DI
CONC
PROP CONC ISLAND
403 2GI
402 2GI
FS
CONC
GRADE TO DRAIN
FROM ISLAND TO STR 403
4' PROP CONC ISLAND
416 DI
415
414 DI
411 DI
407 DI
405 DI
4' PAVED SHOULDER
N 58°56'02.9" E

W-5804A-2

CONC HW
410 HW

CUTOVER

–L– 13+00.00
75.00 RT

–L– 13+45.00
120.00 RT

–L– 15+39.44
85.00 RT

–L– 15+95.00
75.00 RT

–L– 17+00.00
85.00 RT

–L– 18+00.00
75.00 RT

DRIVE BY OTHERS 45'
DRIVE BY OTHERS 45'

FILL EXISTING DITCH AT EX. PIPE INLET
AND GRADE TO DRAIN FROM STA. 13+10 TO 11+68 (MED)

SPECIAL CUT DITCH
SEE DETAIL B

SPECIAL CUT DITCH
SEE DETAIL B

S 31°56'32"E
616.85

S 31°56'32"E
649.22

MATCHLINE –L– 24+00 SEE SHEET 5

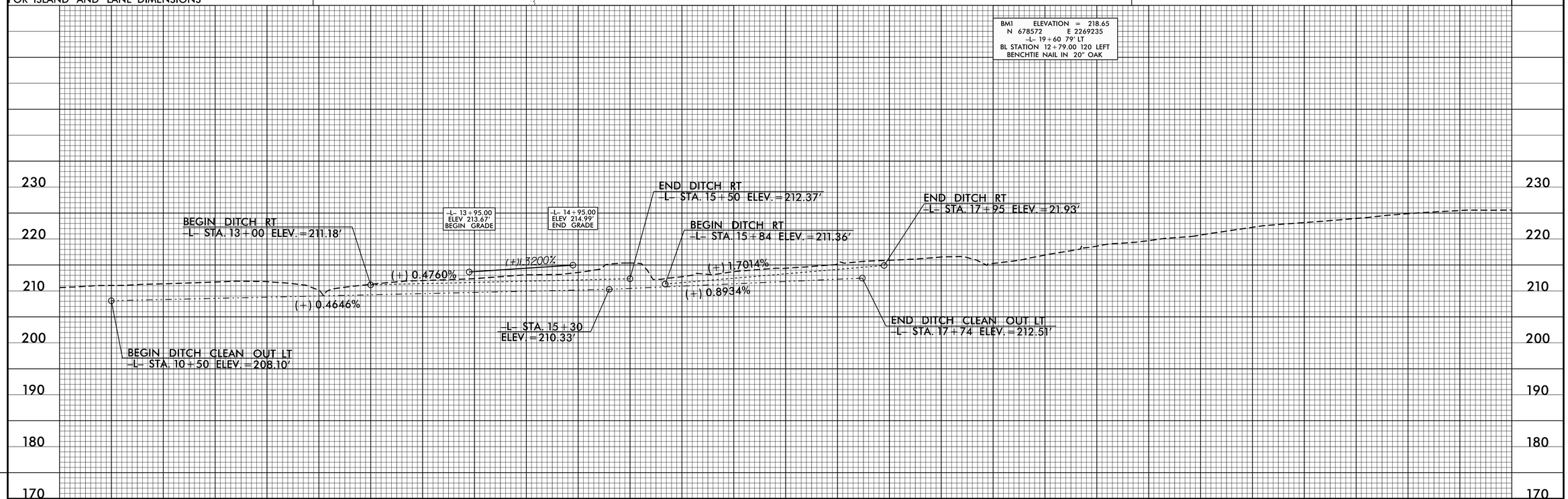
1

NUTRIEN AG SOLUTIONS, INC.
DB 2828 PG 187 - 190
PB 42 PG 193

SCOTT BROTHERS LAND CO, LLC
DB 2552 PG 934
PB 7 PG 18

NOTE SEE PLAN SHEET 2B–1
FOR ISLAND AND LANE DIMENSIONS

BM1 ELEVATION = 218.65
N 678572 E 2269235
–L– 19+60 79' LT
BL STATION 12+79.00 120 LEFT
BENCHTIE NAIL IN 20" OAK



REVISIONS

05-NOV-2021 10:11
S:\DDC\W-5804A\Roadway\Proj\W-5804A_ddc4_PSH04.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	05
RW SHEET NO.	05

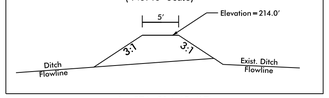
ROADWAY DESIGN ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III
E7C7B8E6C4A5044B...

HYDRAULICS ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 048034 ENGINEER ERIK P. SEILER
DocuSigned by: Erik Seiler
914DF6C33CF245D...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

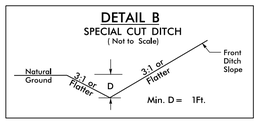
SCOTT H.F. CRAWFORD ET. UX
DB 2300 PG 765
PB 7 PG 18

DETAIL D
DITCH BLOCK
(Not to Scale)



–L– STA. 31+45 (LT)

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 30+50 TO STA. 33+00 (LT)
FROM STA. 35+00 TO STA. 37+50 (LT)

LINE –Y1–
PI Sta 11+41.29
△ = 2° 36' 51.1" (LT)
D = 1° 06' 53.3"
L = 234.50'
T = 117.27'
R = 5,139.53'

PI Sta 13+66.85
△ = 1° 07' 00.1" (LT)
D = 2° 51' 53.2"
L = 38.98'
T = 19.49'
R = 2,000.00'

PI Sta 14+16.90
D = 28° 38' 52.4"
L = 60.65'
T = 30.56'
R = 200.00'

NAD 83/2011

SCOTT BROTHERS LAND CO, LLC
DB 2684 PG 913
PB 7 PG 18

CL B RIP RAP
EST. 2 TON
EST. 7 SY GF

ST MARY'S SENIOR EXTENSION VOLUNTEER CLUB
DB 2145 PG 860

JAMES ANTHONY ALOI
NO DEED REFERENCE FOUND
PB 11PG 1

–Y1– PT 12+58.52
–Y1– POT 13+00.00
BEGIN CONST
–Y1– PC 13+47.36
–Y1– PRC 13+86.34

JAMES SARGENT, ET UX
DB 2675 PG 805
PB 11PG 1

DONNIE DEAN HALL JR.
DB 2531 PG 866
PB 7 PG 18

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT
FIELD ADJUST BOX LOCATION AND ELEVATION TO TIE EXISTING 24" PIPE DITCH BLOCK
TO BLOCK RDWY DRAINAGE FROM PRIVATE PROPERTY
SEE DETAIL D

SPECIAL CUT DITCH
SEE DETAIL B

–Y1– 13+80.00
50.00 LT
–Y1– 13+60.00
125.00 LT

CL I RIP RAP
EST 11 TONS
EST 22 SY GF

–Y1– 14+00.00
67.34 LT
DO NOT DISTURB TRAILERS

–Y1– PT 14+46.99
S 31° 03' 57.1" E

–Y1– 13+90.00
130.00 LT

–L– 36+00.00
85.00 LT
–L– 37+00.00
75.00 LT

–L– 34+66.36
85.00 LT

SPECIAL CUT DITCH
SEE DETAIL B

REMOVE EX. DI

REMOVE SYSTEM

COLLAR

REMOVE OCTB & 6" RCP

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

REMOVE

REMOVE

GRADE TO DRAIN
FROM ISLAND TO BOX 501

PIPE TYPE
505–504 15" RCP–IV
510–511 15" RCP–IV
522–523 15" RCP–IV
507–508 15" RCP–IV
508–509 24" RCP–IV
526–520 15" RCP–IV
520–519 15" RCP–IV
519–518 15" RCP–IV
517–516 15" RCP–IV
524–521 15" RCP–IV
524–COLLAR 18" RCP–IV
538–COLLAR 18" RCP–IV

NOTE SEE PLAN SHEET 2B–1
FOR ISLAND AND LANE DIMENSIONS

LINE –Y2–
PI Sta 11+09.04
△ = 24° 20' 35.8" (LT)
D = 28° 38' 52.4"
L = 84.97'
T = 43.14'
R = 200.00'

SCOTT BROTHERS LAND CO, LLC
DB 2552 PG 934
PB 7 PG 18

–L– POT 33+65.00 =
–Y1– POT 15+00.00

–L– POT 34+40.00 =
–Y2– POT 10+00.00

S 31° 03' 57.1" E
–Y2– PC 10+65.90
–Y2– PT 11+50.87

–Y2– POT 12+10.00
END CONST

KENLY APOSTOLIC CHURCH
DB 1634 PG 105

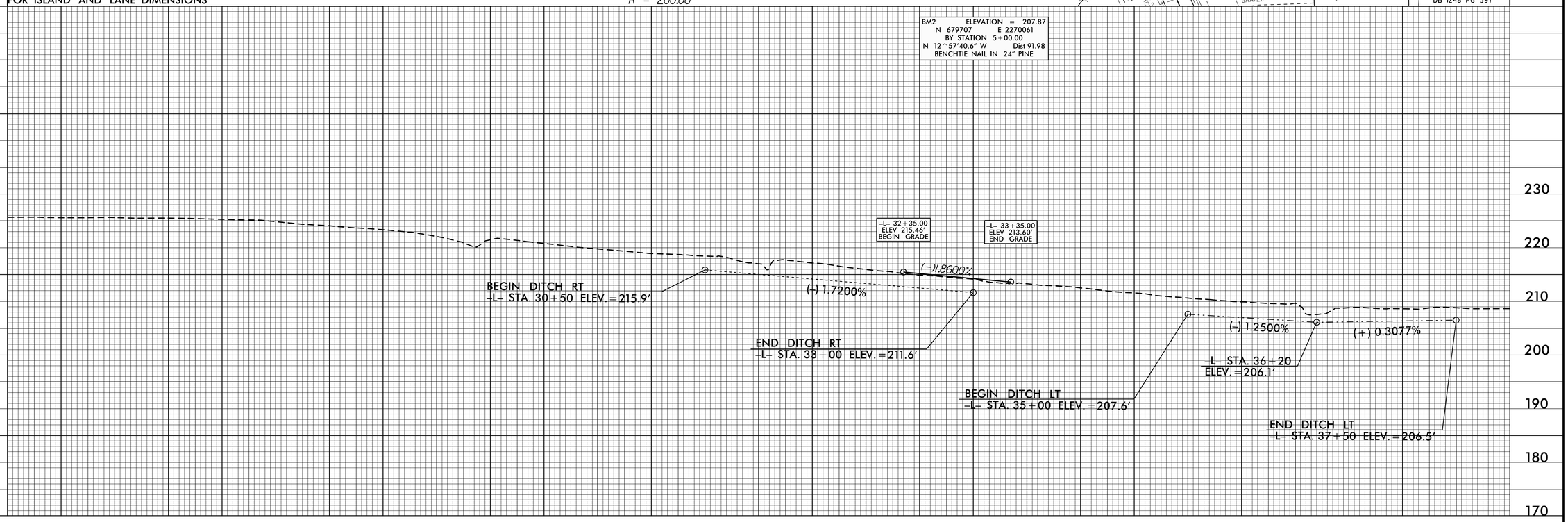
DAVID MOORE, ET UX
DB 1603 PG 746

DONNA BARNES JONES
DB 1248 PG 397

MATCHLINE –L– 24+00 SEE SHEET 4

MATCHLINE –L– 38+00 SEE SHEET 6

BM2 ELEVATION = 207.87
N 679707 E 2270061
BY STATION 5+00.00
N 12° 57'40.6" W Dist 91.98
BENCHTIE NAIL IN 24" PINE



REVISIONS

05-NOV-2021 14:19
S:\DDC\W-5804A\Roadway\Proj\W-5804A_ddc4_PSH05.dgn
$$$$USERNAME$$$$

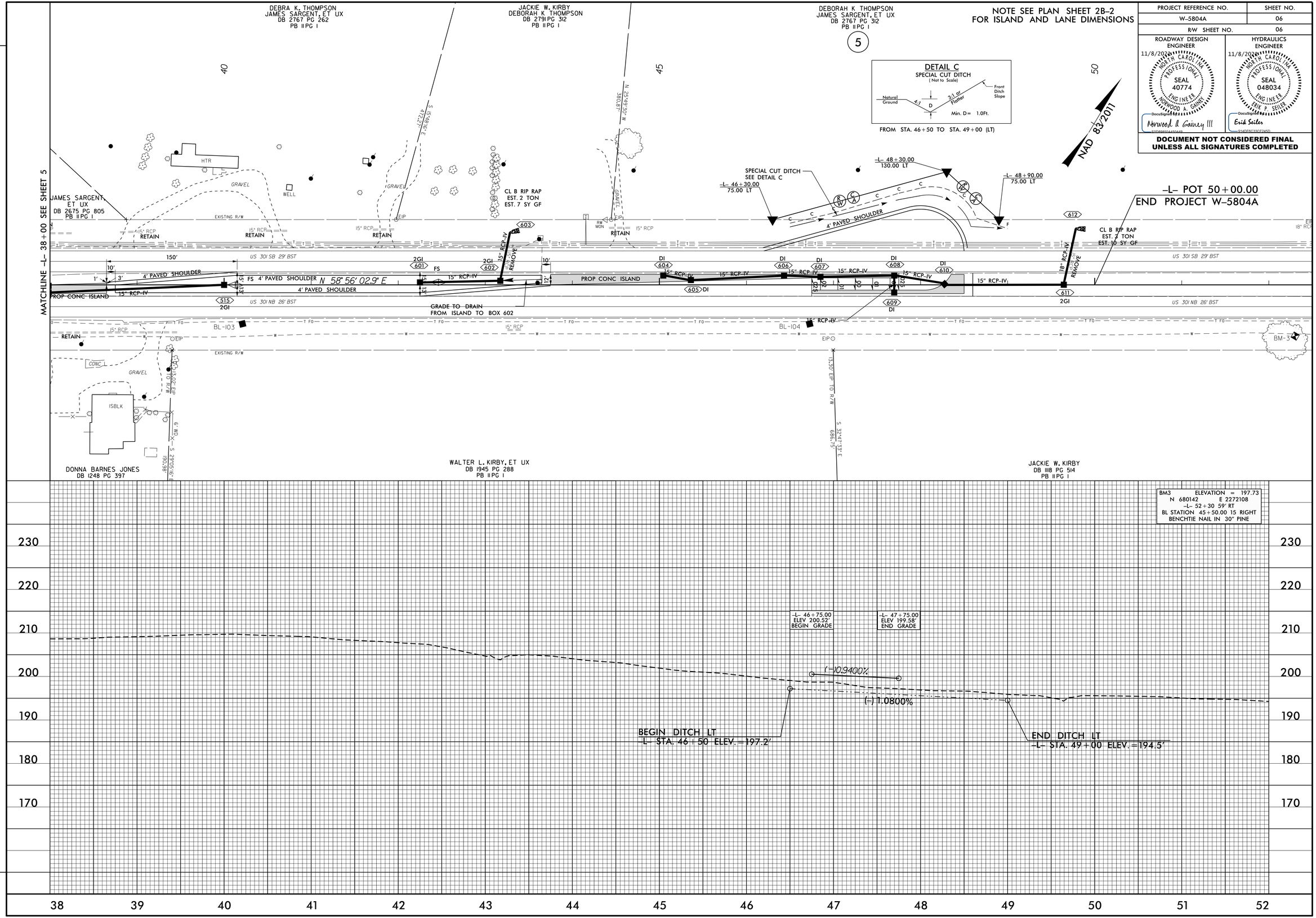
PROJECT REFERENCE NO.	SHEET NO.
W-5804A	06
R/W SHEET NO.	06

ROADWAY DESIGN ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 40774 ENGINEER NORWOOD A. GAINEY
DocuSigned by: Norwood A Gainey III

HYDRAULICS ENGINEER
11/8/2021
NORTH CAROLINA PROFESSIONAL SEAL 048034 ENGINEER ERIK P. SEILER
DocuSigned by: Erik Seiler

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTE SEE PLAN SHEET 2B-2 FOR ISLAND AND LANE DIMENSIONS



REVISIONS

05-NOV-2021 10:11
R:\Roadway\Proj\W-5804A_ddc4_PSH06.dgn
$$$$USERNAME$$$$

DocuSign Envelope ID: 45A915C8-D42A-4FE4-9BC4-C55D9E0ED9DF

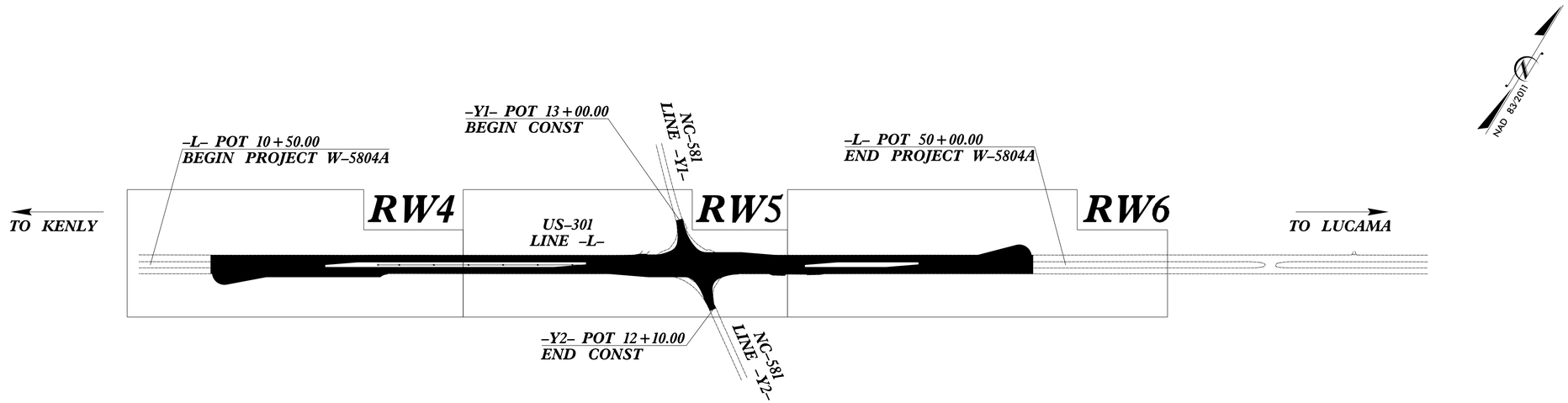
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5804A	RW01	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

WILSON COUNTY

TIP PROJECT: W-5804A



GRAPHIC SCALE

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W-5804A-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 678,471.991(ft) EASTING: 2,269,301.324(ft)
ELEVATION: 219.83(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999887093349
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W-5804A-2" TO -L- STATION 10+50.00 IS S 61-29'52.8" W 915.42(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

WETHERILL ENGINEERING

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	LETTING DATE:
MARCH 8, 2021	DECEMBER 14, 2021

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4372 LAND SURVEYOR ANTHONY K. ALFORD

DocuSigned by: Anthony K. Alford
22BA29B2F0BA44E...
4/9/2021

SIGNATURE: Date:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

09/08/99
$$$$$USERNAME$$$$$ $$$$$SYSTIME$$$$$ $$$$$DGN$$$$$

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5804-A	RW02C-1

Location and Surveys

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

NC GRID
NAD 83 NA 2011

POT

BM-1

TO SMITHFIELD

N 58° 56' 03" E
5,560.76

US 301 SB

-EL-

US 301 NB

W-5804A-1

W-5804A-2

BL-101

MATCHLINE RW02C-2

NOTES:

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

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS 6/2/99

03-FEB-2020 09:51
P:\2019\NC00\Location and Surveys\W-5804A Conv 20106.30\80-Drawings\Control Sheets\w5804a_ls_rw02c-1.dgn
BTurner AT RAL-WS083

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5804-A	RW02C-3
Location and Surveys	

WETHERILL ENGINEERING

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

NC GRID
NAD 83 NA 2011

MATCHLINE RW02C-2

POT

N 58° 56' 03" E
5,560.76

-EL-

US 301 SB

US 301 NB

TO WILSON

BL-105

BM-3

W-5804A-3

W-5804A-4

NOTES:

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

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

03-FEB-2020 10:08
P:\2019\NCDOT Location and Surveys\W-5804A Conv 20106.30.80-Drawings\Control Sheets\w5804a_ls_rw02c-3.dgn
BTurner AT RAL-WS083

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5804-A	RW02C-4

Location and Surveys

ETHERIDGE ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PRIMARY CONTROL

POINT	DESC.	NORTH	EAST	ELEVATION
1	W5804A-1	678065.7760	2268630.9210	212.13
2	W5804A-2	678471.9910	2269301.3240	219.83
3	W5804A-3	680583.9320	2272809.8530	190.68
4	W5804A-4	680978.3030	2273470.9430	176.43

BL

POINT	DESC.	NORTH	EAST	ELEVATION
1	W5804A-1	678065.7760	2268630.9210	212.13
2	W5804A-2	678471.9910	2269301.3240	219.83
101	BL-101	678820.3670	2269881.4950	225.91
102	BL-102	679191.8500	2270526.7630	212.53
103	BL-103	679529.8950	2271064.9090	210.34
104	BL-104	679866.1010	2271622.9410	200.09
105	BL-105	680203.1270	2272180.2190	194.63
3	W5804A-3	680583.9320	2272809.8530	190.68
4	W5804A-4	680978.3030	2273470.9430	176.43

BY

POINT	DESC.	NORTH	EAST	ELEVATION
201	BY-201	679617.0490	2270082.0830	209.70
102	BL-102	679191.8500	2270526.7630	212.53
202	BY-202	678916.1710	2270946.0860	208.22

****

BM1 ELEVATION = 218.65
N 678572 E 2269235
BL STATION 12+79.00 120 LEFT
BENCHTIE NAIL IN 20" OAK

****

****

BM2 ELEVATION = 207.87
N 679707 E 2270061
BY STATION 5+00.00
N 12°57'40.6" W DIST 91.98
BENCHTIE NAIL IN 24" PINE

****

****

BM3 ELEVATION = 197.73
N 680142 E 2272108
BL STATION 45+50.00 15 RIGHT
BENCHTIE NAIL IN 30" PINE

****

NOTES:

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

REVISIONS

6/2/99

03-FEB-2020 12:21
P:\2019\NCDOT\Location and Surveys\W-5804A Conv 20106.30\80-Drawings\Control Sheets\w5804a_ls_rw02c-4.dgn
BTurner AT RAL-WS083

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5804-A	RW02C-5

Location and Surveys

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

EL

POINT	N	E	BEARING	DIST
POT	678009.363	2268454.028		
LINE			N 58°56'02.9" E	5560.76
POT	680878.845	2273217.236		

EY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	679614.817	2270107.311							
LINE			S 44°42'40.3" E	61.94					
PC	679570.801	2270150.884							
CURVE			S 46°01'05.9" E	234.48	02°36'51.1"(LT)	01°06'53.3"	234.50	117.27	5139.53
PT	679407.974	2270319.605							
LINE			S 47°19'31.4" E	88.84					
PC	679347.756	2270384.920							
CURVE			S 51°22'02.2" E	281.94	08°05'01.6"(LT)	02°51'53.2"	282.18	141.32	2000.00
PT	679171.732	2270605.163							
LINE			S 55°24'33.0" E	413.64					
POT	678936.903	2270945.685							

NOTES:

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

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

03-FEB-2020 14:00
P:\2019\NC001-Location and Surveys\W-5804A Conv 20106.30\80-Drawings\Control Sheets\w5804a_ls_rw02c-5.dgn
BTurner AT RAL-WS083

DocuSign Envelope ID: 45A915C8-D42A-4FE4-9BC4-C55D9E0ED9DF

6/2/99

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	678009.3634	2268454.0278
POT	65+60.76	680878.8453	2273217.2358

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	679587.8736	2270133.9834
PC	10+24.02	679570.8013	2270150.8844
PT	12+58.52	679407.9742	2270319.6046
PC	13+47.36	679347.7565	2270384.9200
PRC	13+86.34	679321.6156	2270413.8342
PT	14+46.99	679275.1631	2270452.4737
POT	15+00.00	679229.7581	2270479.8269

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	679268.4599	2270544.0700
PC	10+65.90	679212.0128	2270578.0752
PT	11+50.87	679150.5720	2270635.8477
POT	15+00.00	678952.3681	2270923.2588

NOTES:

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

2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW02D-1

Location and Surveys

ETHERIDGE ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4372 ANTHONY K. ALFORD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
22BA29B2F0BA44E...

Anthony K. Alford
Professional Land Surveyor L-4372

08-APR-2021 07:57
R:\2021\W5804 Location and Surveys\W-5804A RW\80-Drawings\RW Sheets\w5804a_ls_rw02d-1.dgn
Turner AT RAL-WS083

DocuSign Envelope ID: DA285960-2466-4104-B1B5-46E4E5C8BBAF

6/2/99

REVISIONS

14-APR-2021 08:41
P:\2021\NCDOT Location and Surveys\W-5804A RW\80-Drawings\FOR REVIEW\w5804a_ls_rw03e-1.dgn
BTurner AT RAL-WS083

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW03E-1

Location and Surveys

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4372 LAND SURVEYOR ANTHONY K. ALFORD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I , Anthony K. Alford , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from April 6, 2021 to April 7, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
22BA29B2F0BA44E...

Anthony K. Alford
Professional Land Surveyor L-4372

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	13+00.00	75.00	678099.9273	2268749.7020
L	13+45.00	120.00	678084.6025	2268811.4689
L	15+95.00	75.00	678252.1541	2269002.3915
L	46+30.00	-75.00	679946.7705	2271524.6921
L	48+30.00	-130.00	680097.0867	2271667.6258
L	48+90.00	-75.00	680080.9365	2271747.4015

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED APRIL 6, 2021 TO APRIL 7, 2021 .

DocuSign Envelope ID: DA285960-2466-4104-B1B5-46E4E5C8BBAF

6/2/99

REVISIONS

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW03E-2

Location and Surveys

ETHERIDGE ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4372 LAND SURVEYOR ANTHONY K. ALFORD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I , Anthony K. Alford , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from April 6, 2021 to April 7, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
22BA2982FCBA44E...

Anthony K. Alford
Professional Land Surveyor L-4372

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	13+60.00	-125.00	679431.6525	2270478.3881
Y1	13+80.00	-50.00	679363.1365	2270442.3855
Y1	13+90.00	-130.00	679414.8432	2270504.5576
Y1	14+00.00	-67.34	679359.4364	2270471.7500

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED APRIL 6, 2021 TO APRIL 7, 2021 .

14-APR-2021 08:43
P:\Location and Surveys\W-5804A RW\80-Drawings\FOR REVIEW\w5804a_ls_rw03e-2.dgn
Turner AT RAL-WS083

DocuSign Envelope ID: A78A2A09-E126-458A-B0F0-815F6F29AA18

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW04

Location and Surveys

ETHERIDGE ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

I , Anthony K. Alford , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from April 6, 2021 to April 7, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
22BA29B2F0BA44E...

Anthony K. Alford
Professional Land Surveyor L-4372

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4372 ANTHONY K. ALFORD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SCOTT BROTHERS LAND CO. LLC
DB 2839 PG 831
PB 7 PG 18

2

15

20

NAD 83/2011

-L- 10+50.00
75 & 85 LT

-L- POT 10+50.00
BEGIN PROJECT W-5804A

-L- 14+00.00
85.00 LT

-L- 15+00.00
90.00 LT

-L- 16+00.00
90.00 LT

-L- 18+00.00
85.00 LT

-L- 18+00.00
75.00 LT

WOODS

EXISTING R/W

US 301 SB 29' BST

US 301 NB 26' BST

CONC

N 58°56'02.9" E

CONC HW

CUTOVER

-L- 13+00.00
75.00 RT

-L- 13+45.00
120.00 RT

-L- 15+39.44
85.00 RT

-L- 15+95.00
75.00 RT

-L- 17+00.00
85.00 RT

-L- 18+00.00
75.00 RT

S 36°32'E
698.58'

S 36°32'E
649.22'

1

NUTRIEN AG SOLUTIONS, INC.
DB 2828 PG 187 - 190
PB 42 PG 193

SCOTT BROTHERS LAND CO, LLC
DB 2552 PG 934
PB 7 PG 18

MATCHLINE -L- 24+00 SEE SHEET 5

REVISIONS

6/2/99

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED APRIL 6, 2021 TO APRIL 7, 2021.

I:\APP_2021\0158 Location and Surveys\W-5804A RW\80-Drawings\FOR REVIEW\w5804a_ls_rw04.dgn
4/12/2021 10:00:01 AM
User: AT
PW Working Directory: C:\Users\AT\AppData\Local\Temp\PWTemp\WS003

DocuSign Envelope ID: A78A2A09-E126-458A-B0F0-815F6F29AA18

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW05

Location and Surveys

ETHERIDGE ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4372 LAND SURVEYOR ANTHONY K. ALFORD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

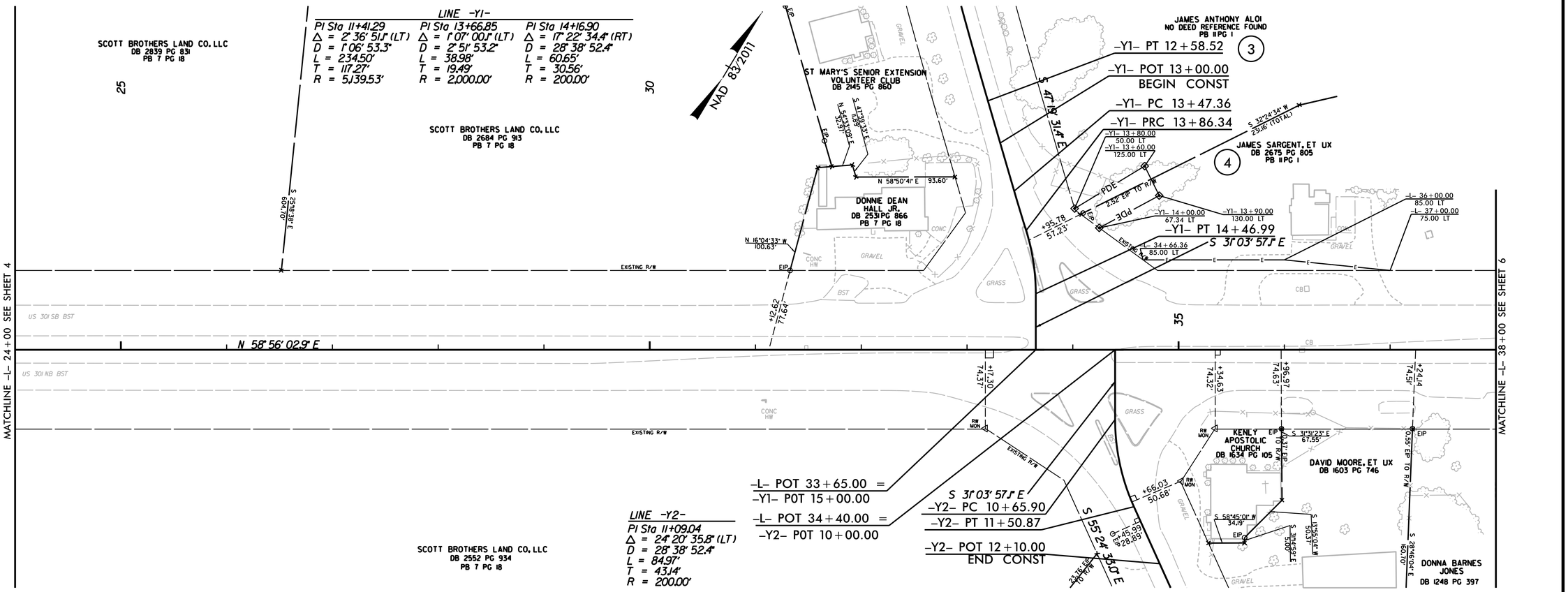
I, Anthony K. Alford , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from April 6, 2021 to April 7, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
22BA29B2F0BA44E...
Anthony K. Alford
Professional Land Surveyor L-4372

REVISIONS

6/2/99



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED APRIL 6, 2021 TO APRIL 7, 2021.

12-APR-2021 12:54
P:\Projects\W-5804A Location and Surveys\W-5804A RW\80-Drawings\FOR REVIEW\w5804a_ls_rw05.dgn
Plotted By: ANTHONY ALFORD
Project Manager: RW5804A

DocuSign Envelope ID: A78A2A09-E126-458A-B0F0-815F6F29AA18

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	RW06

Location and Surveys

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4372 LAND SURVEYOR ANTHONY K. ALFORD

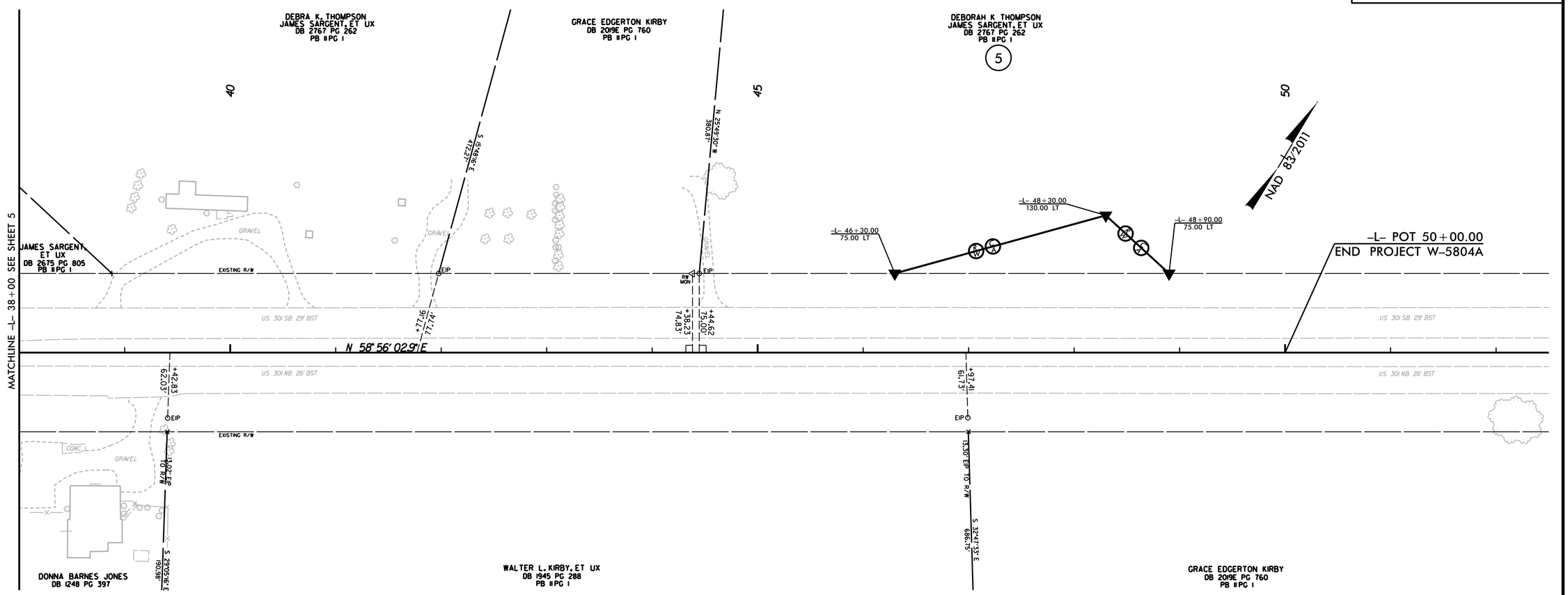
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I , Anthony K. Alford , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from April 6, 2021 to April 7, 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 12th day of April, 2021.

DocuSigned by:
Anthony K. Alford
228A29B2F0BA44E...

Anthony K. Alford
Professional Land Surveyor L-4372



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED APRIL 6, 2021 TO APRIL 7, 2021.

REVISIONS

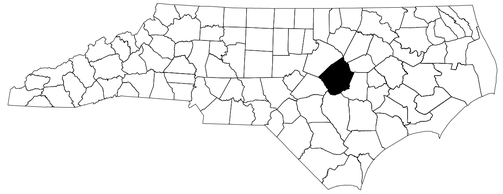
6/2/99

12-APR-2021 12:56
P:\2021\NCDOT Location and Surveys\W-5804A RW\80-Drawings\FOR REVIEW\w5804a_ls_rw06.dgn
BTurner AT RAL-WS083

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

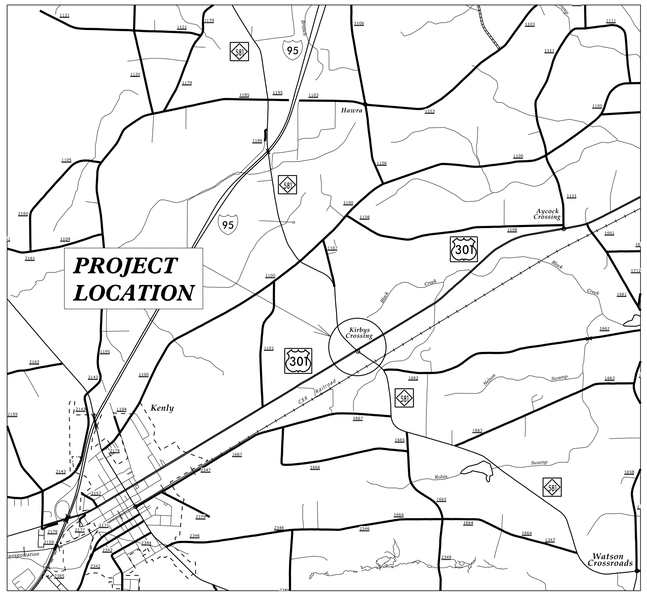
TRANSPORTATION MANAGEMENT PLAN

JOHNSTON COUNTY



LOCATION: ***INTERSECTION OF US 301 AT NC 581***

TYPE OF WORK: ***INTERSECTION IMPROVEMENTS***



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL STEP 2 DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL STEP 3 DETAIL
TMP-6	TEMPORARY TRAFFIC CONTROL STEP 4 DETAIL

SHEET NO.
TMP-1

W-5804A

TIP PROJECT:



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

PLANS PREPARED BY:

TADEAUS M. KELLY

JUSTIN D. BEAVER, PE

NCDOT CONTACTS:

KENNETH C. THORNEWELL, PE
PROJECT ENGINEER

JUSTIN D. BEAVER, PE
PROJECT DESIGN ENGINEER

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C. THORNEWELL JR.

10/8/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_1_TitleSheet.dgn
User:jdbeaver

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-1A

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 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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE 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
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
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

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

EXISTING · PROPOSED · TEMPORARY · PORTABLE

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM · SKINNY DRUM · TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. — 1E991EF2737340S...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C THORNEWELL JR

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

ROADWAY STANDARD DRAWINGS & LEGEND

10/8/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_1A - RSD.dgn
User:idbeaver1

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-2

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 581	MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM 4:00 PM TO 7:00 PM

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

ROAD NAME

NC 581
US 301

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 AM DECEMBER 31st TO 7:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 7:00 PM MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 7:00 PM TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 7:00 PM MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

C) 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.

D) 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.

E) 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.

F) 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.

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

TRAFFIC PATTERN ALTERATIONS

H) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

I) 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.

J) 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.

K) 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.

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

TRAFFIC CONTROL DEVICES

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

N) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

O) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 301	PAINT	RAISED TEMPORARY
NC 581	PAINT	NONE

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.

S) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C. THORNEWELL JR.

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

11/5/2021
\\Dot\dfsroot0\ProjStore\DivProj\Division04\W5804A\Traffic\TrafficControl\TCP\W-5804A_TC_TMP_2 - GeneralNotes.dgn
User:jdbeaver

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-3

PHASING

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.

COMPLETE PAVEMENT WEDGING/BUILD UP IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE. MAINTAIN POSITIVE DRAINAGE AND A MAXIMUM OF 0.04 ROLLOVER IN EXISTING TRAVEL LANES.

THE CONTRACTOR SHALL COMPLETE EACH PHASE OF CONSTRUCTION CONSECUTIVELY ACCORDING TO THIS TMP PLAN. CONCURRENT WORK OPERATIONS BETWEEN PHASES SHALL NOT BE ALLOWED.

PHASE I - NORTHERN BULB-OUT

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN PHASE 1, STEP 1 BEGINNING 7:00 P.M. THE FRIDAY THE CONTRACTOR ELECTS TO BEGIN THE WORK. ALL LANES OF TRAFFIC SHALL BE OPEN BY 6:00 A.M. ON MONDAY AFTER THE CONTRACTOR ELECTS TO BEGIN THE WORK. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 1:

USING TMP-4, RSD 1101.03, SHEET 1 OF 9, AND RSD 1101.02, SHEET 3 OF 14, INSTALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNS TO IMPLEMENT A LEFT LANE CLOSURE AND TO CLOSE US-301 SOUTHBOUND LANES.

COMPLETE CROSS PIPE INSTALLATION (STRUCTURES 602-603 AND 611-612) UNDER ROAD CLOSURE. UPON COMPLETION OF CROSS PIPE INSTALLATIONS, REMOVE TRAFFIC CONTROL DEVICES AND OPEN ALL LANES OF TRAFFIC.

STEP 2:

USING RSD 1101.02, SHEET 3 OF 14, DURING ALLOWABLE LANE CLOSURE HOURS, COMPLETE GRADING, PAVING, AND MEDIAN DRAINAGE WORK REQUIRED TO FULLY CONSTRUCT NORTHERN BULB-OUT. UPON COMPLETION OF CONSTRUCTION, OPEN THE NORTHERN BULB-OUT TO TRAFFIC.

PHASE II - SOUTHERN BULB-OUT

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN PHASE 2, STEP 1 BEGINNING 7:00 P.M. THE FRIDAY THE CONTRACTOR ELECTS TO BEGIN THE WORK. ALL LANES OF TRAFFIC SHALL BE OPEN BY 6:00 A.M. ON MONDAY AFTER THE CONTRACTOR ELECTS TO BEGIN THE WORK. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 1:

USING TMP-5, RSD 1101.03, SHEET 1 OF 9, AND RSD 1101.02, SHEET 3 OF 14, INSTALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNS TO CLOSE US 301 NORTHBOUND AND SOUTHBOUND LANES. PRIOR TO IMPLEMENTING THE DETOUR AND CLOSING THE ROAD, INSTALL A LEFT LANE CLOSURE FOR SOUTHBOUND US 301 AND A RIGHT LANE CLOSURE FOR NORTHBOUND US 301 AS SHOWN ON TMP-5.

COMPLETE CROSS PIPE INSTALLATION (STRUCTURES 410-411, 411-412, 502-503, 512-509, 509-508, AND 508-533) UNDER ROAD CLOSURE. UPON COMPLETION OF CROSS PIPE INSTALLATIONS, REMOVE TRAFFIC CONTROL DEVICES AND OPEN ALL LANES OF TRAFFIC.

STEP 2:

USING RSD 1101.02, SHEET 3 OF 14, DURING ALLOWABLE LANE CLOSURE HOURS, COMPLETE GRADING, PAVING, AND MEDIAN DRAINAGE WORK REQUIRED TO FULLY CONSTRUCT SOUTHERN BULB-OUT. UPON COMPLETION OF CONSTRUCTION, OPEN THE SOUTHERN BULB-OUT TO TRAFFIC.

PHASE III - NC-581 DRAINAGE AND MEDIAN WORK

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN PHASE III, STEP 1 BEGINNING 7:00 P.M. THE FRIDAY THE CONTRACTOR ELECTS TO BEGIN THE WORK. ALL LANES OF TRAFFIC SHALL BE OPEN BY 6:00 A.M. ON MONDAY AFTER THE CONTRACTOR ELECTS TO BEGIN THE WORK. SEE INTERMEDIATE CONTRACT TIMES AND LIQUIDATED DAMAGES.

STEP 1:

USING TMP-6 AND RSD 1101.03, SHEET 1 OF 9, INSTALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNS TO CLOSE NC-581.

COMPLETE CROSS PIPE INSTALLATION (STRUCTURES 533-514 AND 514-535) UNDER ROAD CLOSURE. UPON COMPLETION OF CROSS PIPE INSTALLATIONS, REMOVE TRAFFIC CONTROL DEVICES AND OPEN ALL LANES OF TRAFFIC.

STEP 2:

USING RSD 1101.02, SHEET 3 OF 14, INSTALL LANE CLOSURES DURING ALLOWABLE WORK HOURS TO FINALIZE MEDIAN CONSTRUCTION FOR RCI. USE FLAGGERS AS NECESSARY ON NC-581 TO COMPLETE CONSTRUCTION.

STEP 3:

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

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION IN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

-ROAD CLOSURES

-OFFSITE DETOUR

-LANE CLOSURES

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C THORNEWELL JR

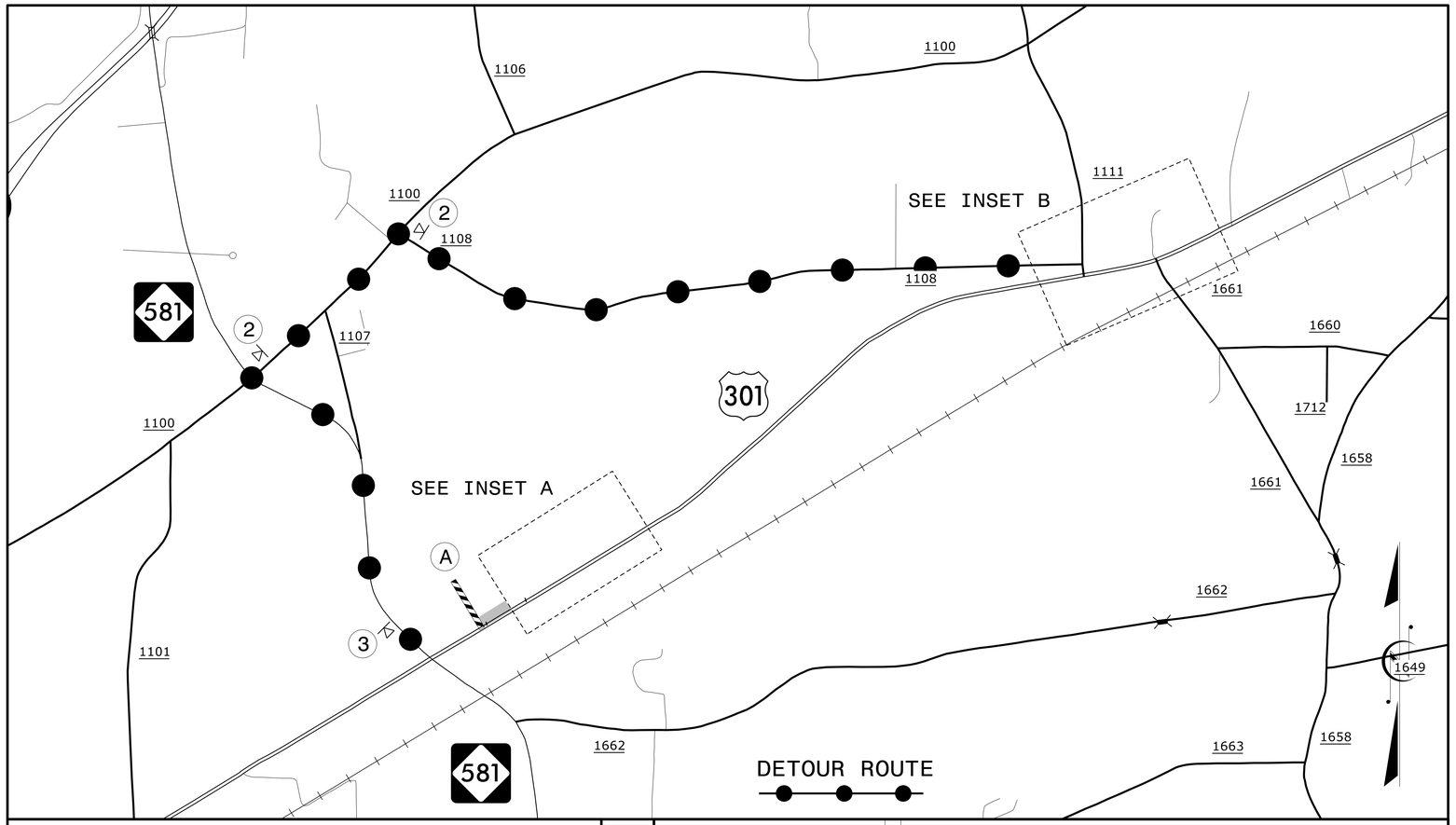
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

PHASING

10/29/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_3 - Phasing.dgn
User:jdbeaver

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-4



PLACE ALL CMS BOARDS 1 MILE +/- BEFORE DETOUR

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
US 301 CLOSED AT 581	FRI 7 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

BEGINNING MONDAY BEFORE ROAD CLOSURE

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
US 301 CLOSED AHEAD	US 301 FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

DURING ROAD CLOSURE

Ⓐ R11-2 48" x 30" — ROAD CLOSED
TYPE III BARRICADE(S)

Ⓑ R11-4 60" x 30" — ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

Ⓒ R11-3 60" x 30" — ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY; M4-10R 48" x 18" — DETOUR
TYPE III BARRICADE

Ⓓ ROAD CLOSED AHEAD W20-3 48" x 48"

Ⓔ DETOUR AHEAD W20-2 48" x 48"

Ⓕ ROAD CLOSED 500 FT W20-3 48" x 48"

Ⓖ ROAD CLOSED 1000 FT W20-3 48" x 48"

Ⓗ ROAD CLOSED AHEAD W20-3 48" x 48"; NEXT RIGHT SP-4R 42" X 12"

Ⓘ ROAD CLOSED AHEAD W20-3 48" x 48"; NEXT LEFT SP-4L 42" X 12"

Ⓙ LEFT LANE CLOSED AHEAD W20-5 L 48" X 48"

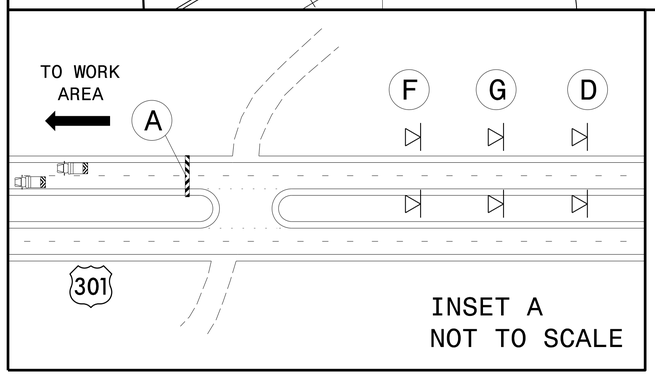
Ⓚ W4-2L 48" X 48"

Ⓛ LEFT LANE CLOSED W20-5 L 48" X 48"

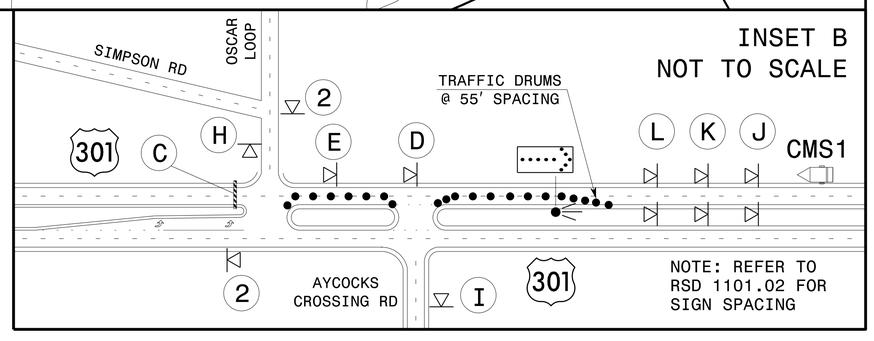
① DETOUR M4-8 24" x 12"; M6-1 21" x 15"

② DETOUR M4-8 24" x 12"; M6-1 21" x 15"

③ END DETOUR M4-8 A 24" X 18"



INSET A
NOT TO SCALE



INSET B
NOT TO SCALE

NOTE: REFER TO RSD 1101.02 FOR SIGN SPACING

NOTES:
TRAFFIC CONTROL DEVICES Ⓐ THROUGH Ⓘ SHALL BE INSTALLED ACCORDING TO RSD 1101.03.

TRAFFIC CONTROL DEVICES ① THROUGH ③ SHALL BE INSTALLED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.

INSTALL BARRICADES Ⓑ FACING US 301 NORTHBOUND ALONG SHOULDER OF MEDIAN TURNAROUNDS.

MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C. THORNEWELL JR.

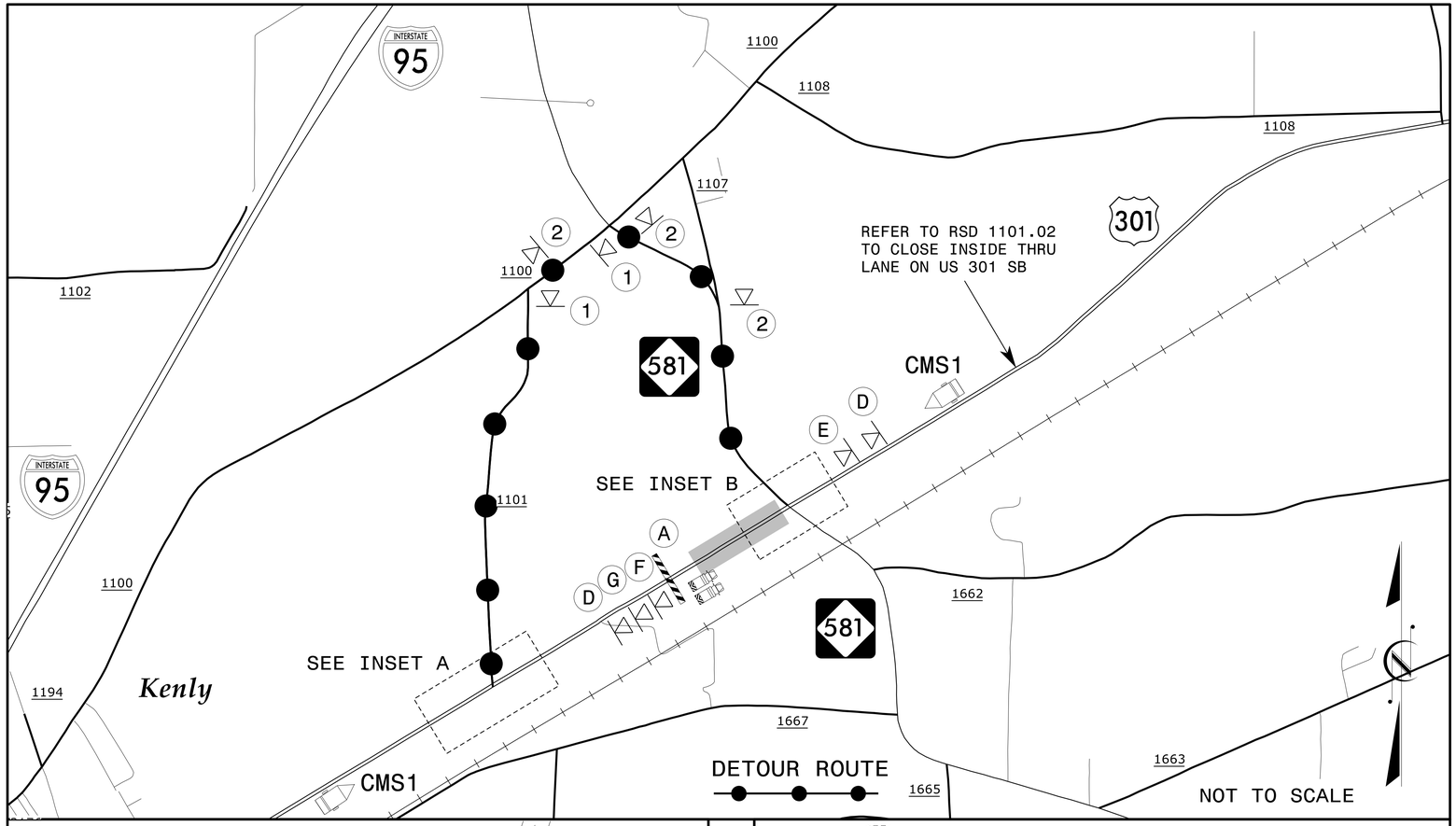
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

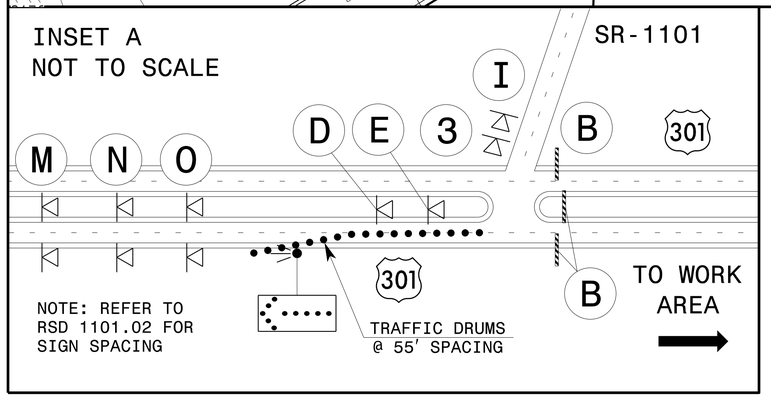
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

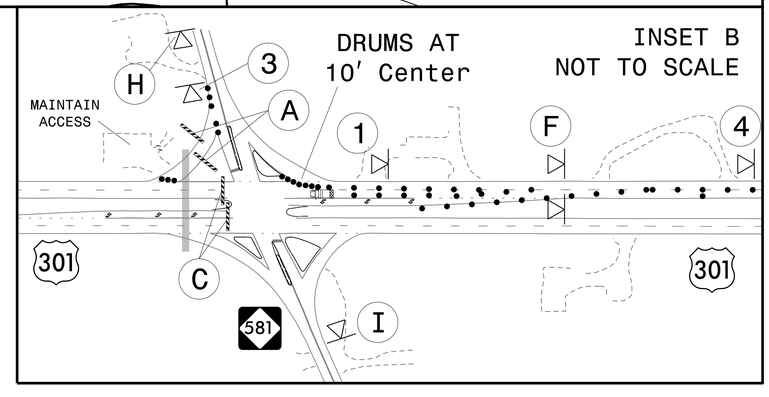
OFF-SITE DETOUR ROUTE AND BARRICADE PLAN FOR PIPE INSTALLATION US-301 SOUTH BOUND LANES NORTH OF NC-581

10/29/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_4.dgn
User:jdbeaverl

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-5







NOTES:
TRAFFIC CONTROL DEVICES (A) THROUGH (I) SHALL BE INSTALLED ACCORDING TO RSD 1101.03

TRAFFIC CONTROL DEVICES (1) THROUGH (3) SHALL BE INSTALLED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.

USE DRUMS TO CLOSE OFF RIGHT TURN LANE FROM NC 581 SOUTHBOUND TO US 301 SOUTHBOUND AT 20 FT SPACING.

MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

PLACE ALL CMS BOARDS 1 MILE +/- BEFORE DETOUR

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
US 301 CLOSED AT 581	FRI 7 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

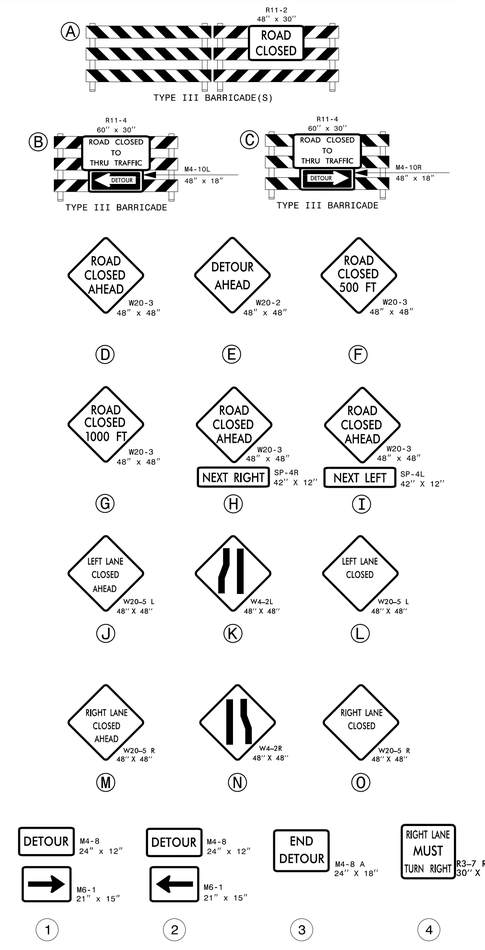
BEGINNING MONDAY BEFORE ROAD CLOSURE

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
US 301 CLOSED AHEAD	US 301 FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

DURING ROAD CLOSURE



APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C. THORNEWELL JR.

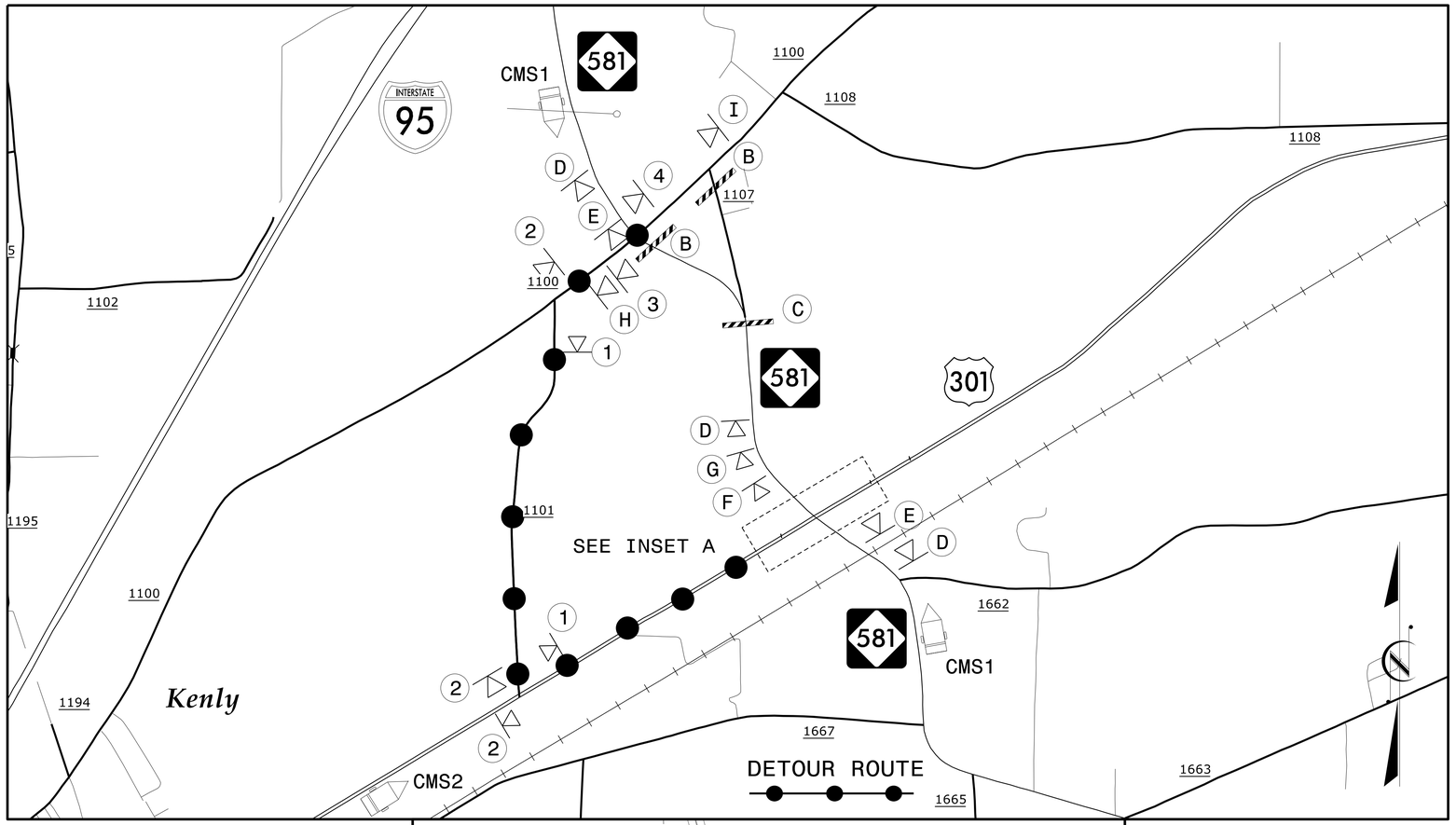
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

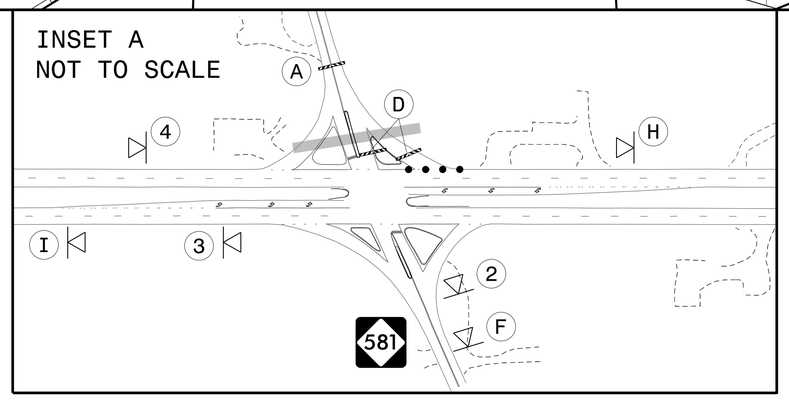
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

OFF-SITE DETOUR ROUTE AND BARRICADE PLAN FOR PIPE INSTALLATION US-301 ALL LANES SOUTH OF NC-581

11/1/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_5.dgn
User:jdbeaver1

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	TMP-6





PLACE ALL CMS BOARDS 1 MILE +/- BEFORE DETOUR

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
NC 581 WILL CLOSE	FRI 7 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

CMS2

MESSAGE NO. 1	MESSAGE NO. 2
NC 581 N WILL CLOSE	FRI 7 PM UNTIL MON 6 AM

CHANGEABLE MESSAGE SIGN

MESSAGE BEGINNING MONDAY PRIOR TO ROAD CLOSURE

CMS1

MESSAGE NO. 1	MESSAGE NO. 2
NC 581 CLOSED AHEAD	NC 581 FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

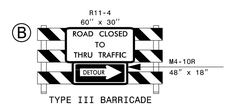
CMS2

MESSAGE NO. 1	MESSAGE NO. 2
NC 581 N CLOSED AHEAD	NC 581 FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

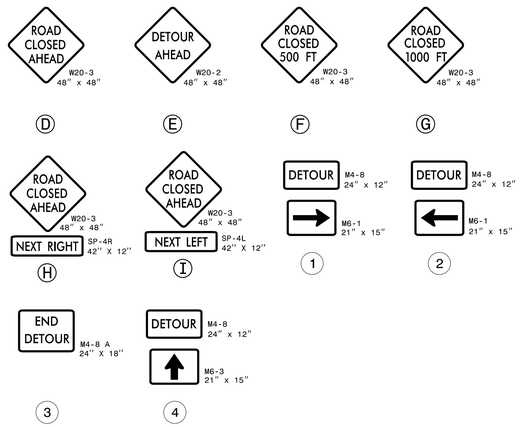
MESSAGE DURING ROAD CLOSURE











NOTES:
TRAFFIC CONTROL DEVICES (A) THROUGH (I) SHALL BE INSTALLED ACCORDING TO RSD 1101.03

TRAFFIC CONTROL DEVICES (1) THROUGH (4) SHALL BE INSTALLED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER

MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

APPROVED: DocuSigned by: Kenneth C. Thornewell Jr., P.E. 1E991EF27373405...

DATE: 11/5/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 044089 ENGINEER KENNETH C. THORNEWELL JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

OFF-SITE DETOUR ROUTE AND BARRICADE PLAN FOR PIPE INSTALLATION NC-581 ALL LANES AT US-301

10/29/2021
S:\TMU\WZTC\DesignGroup2\Kelly\W-5804A\W-5804A_TC_TMP_6.dgn
User:jdbeaver

DocuSign Envelope ID: 7789CC51-2731-4AB9-AC4D-5296A41FA11E

T.I.P.: W-5804A

CONTRACT:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
WILSON COUNTY

LOCATION: INTERSECTION OF US-301 & NC-581

TIP NO.	SHEET NO.
W-5804A	PMP-1

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-1A	PAVEMENT MARKING ROADWAY STANDARD DRAWING
PMP-2-4	PAVEMENT MARKING DETAIL

W-5804A PAVEMENT MARKING SCHEDULE

MATERIAL	SYMBOL	DESCRIPTION
PAVEMENT MARKING		
THERMOPLASTIC (4", 90 MILS)		
	T1	WHITE EDGELINE
	T2	WHITE SOLID LANE LINE
	T3	10 FT. WHITE SKIP
	T4	3 FT. - 9 FT./SP WHITE MINISKIP
	T5	2 FT. - 6 FT./SP WHITE MINISKIP
	T10	YELLOW EDGELINE
	T14	2 FT. - 6 FT./SP YELLOW MINISKIP
THERMOPLASTIC (8", 90 MILS)		
	T40	WHITE GORELINE
	T41	WHITE DIAGONAL
THERMOPLASTIC (24", 90 MILS)		
	T61	WHITE STOPBAR
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)		
	T70	LEFT TURN ARROW
	T71	RIGHT TURN ARROW
	T72	STRAIGHT ARROW
	T77	U-TURN ARROW
NON-CAST IRON SNOWPLOWABLE MARKERS (NOT SHOWN)		
	ME	YELLOW & YELLOW
	MF	CRYSTAL & RED

ROADWAY STANDARD DRAWING

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

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

GENERAL NOTES

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

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 301	THERMOPLASTIC	NON-CAST IRON SNOWPLOWABLE
NC 581	THERMOPLASTIC	NON-CAST IRON SNOWPLOWABLE

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

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

A. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER

M. TRACEY, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

10/07/2021
S:\S&D\TIPPROJECTS\W-5804A\Traffic\Pavement Markings\2018.PEF Pavement Marking Seed_08-13-19.dgn
User:mmtracey

DocuSign Envelope ID: 7789CC51-2731-4AB9-AC4D-5296A41FA11E

TIP NO.	SHEET NO.
W-5804A	PMP-1A

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

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

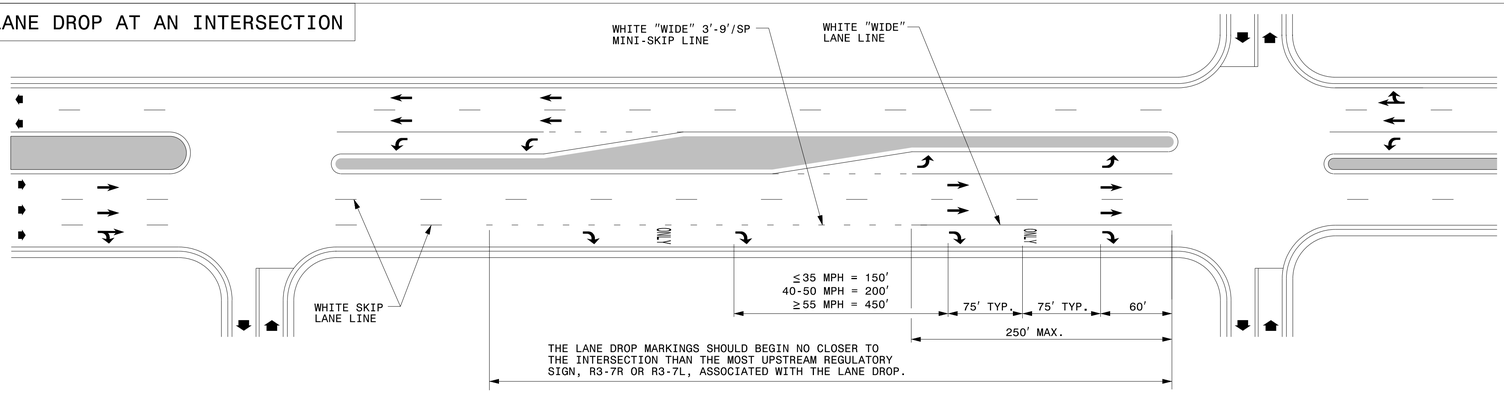
1-18

ENGLISH STANDARD DRAWING FOR

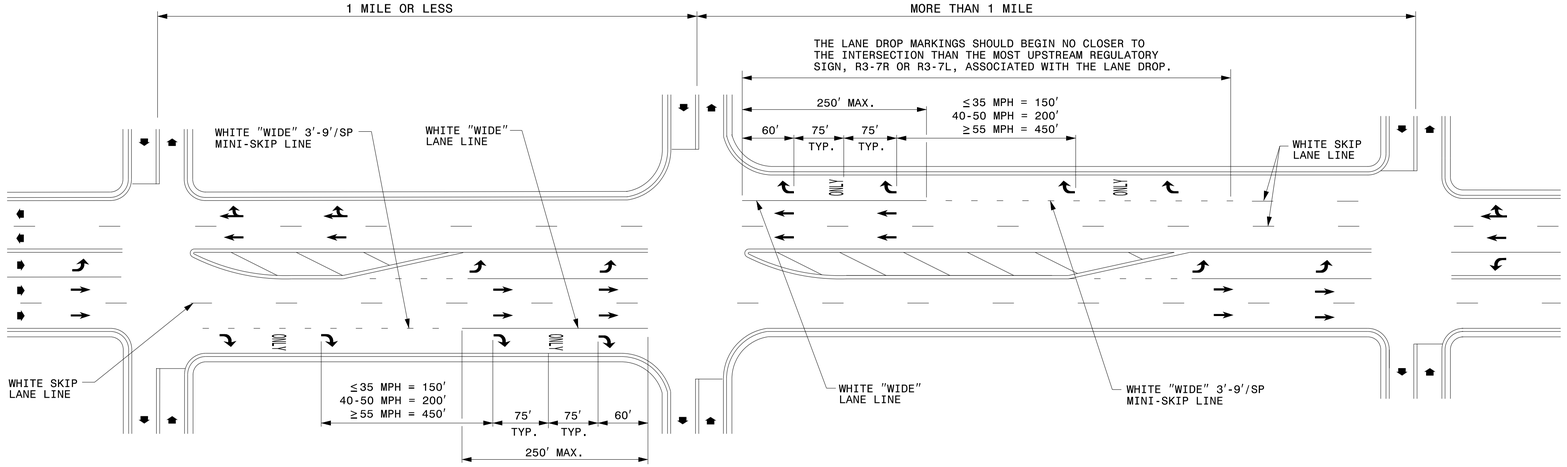
PAVEMENT MARKINGS

LANE DROPS

LANE DROP AT AN INTERSECTION



LANE DROP AT AN INTERSECTION WITH AN AUXILIARY LANE



GENERAL NOTES:

1- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

LEGEND

W = WIDTH OF TRAVEL LANE

DIRECTION OF TRAFFIC FLOW

ONLY PAVEMENT MARKING SYMBOLS & CHARACTERS

SHEET 1 OF 5

1205.06

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

1-18

ENGLISH STANDARD DRAWING FOR

PAVEMENT MARKINGS

LANE DROPS

SHEET 1 OF 5

1205.06

10/07/2021
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Pavement Markings\2018_PEF Pavement Marking Seed_08-13-19.dgn
User:mmtracey

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING

DocuSign Envelope ID: 7789CC51-2731-4AB9-AC4D-5296A41FA11E

TIP NO.	SHEET NO.
W-5804A	PMP-2

APPROVED: DocuSigned by: Matthew Tracey 3C044CA4ZE984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

15

20

NAD 83/2011

BEGIN PROJECT W-5804A
-L- POT 10+50.00

T3

T41 CHEVRONS AT 55' SPACING

T40

-L- Sta. 14+93+/-

T77

T77

T72

-L- Sta. 17+43+/-

T4

T77

T72

-L- Sta. 19+45+/-

T1

T10

T3

T10

T71

T71

T71

T2

-L- Sta. 16+04+/-

T1

T1

T72

T72

T3

T1

-L- Sta. 17+78+/-

T14

T5

T40

-L- Sta. 18+95+/-

T5

-L- Sta. 20+86+/-

-L- Sta. 13+20+/-

-L- Sta. 13+95+/-

-L- Sta. 18+54+/-

-L- Sta. 13+35+/-

MATCHLINE
SEE SHEET PMP-3

PAVEMENT MARKING DETAIL

10/07/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Pavement Markings\PMP-2.dgn
User:mtracey

DocuSign Envelope ID: 7789CC51-2731-4AB9-AC4D-5296A41FA11E

TIP NO.	SHEET NO.
W-5804A	PMP-3

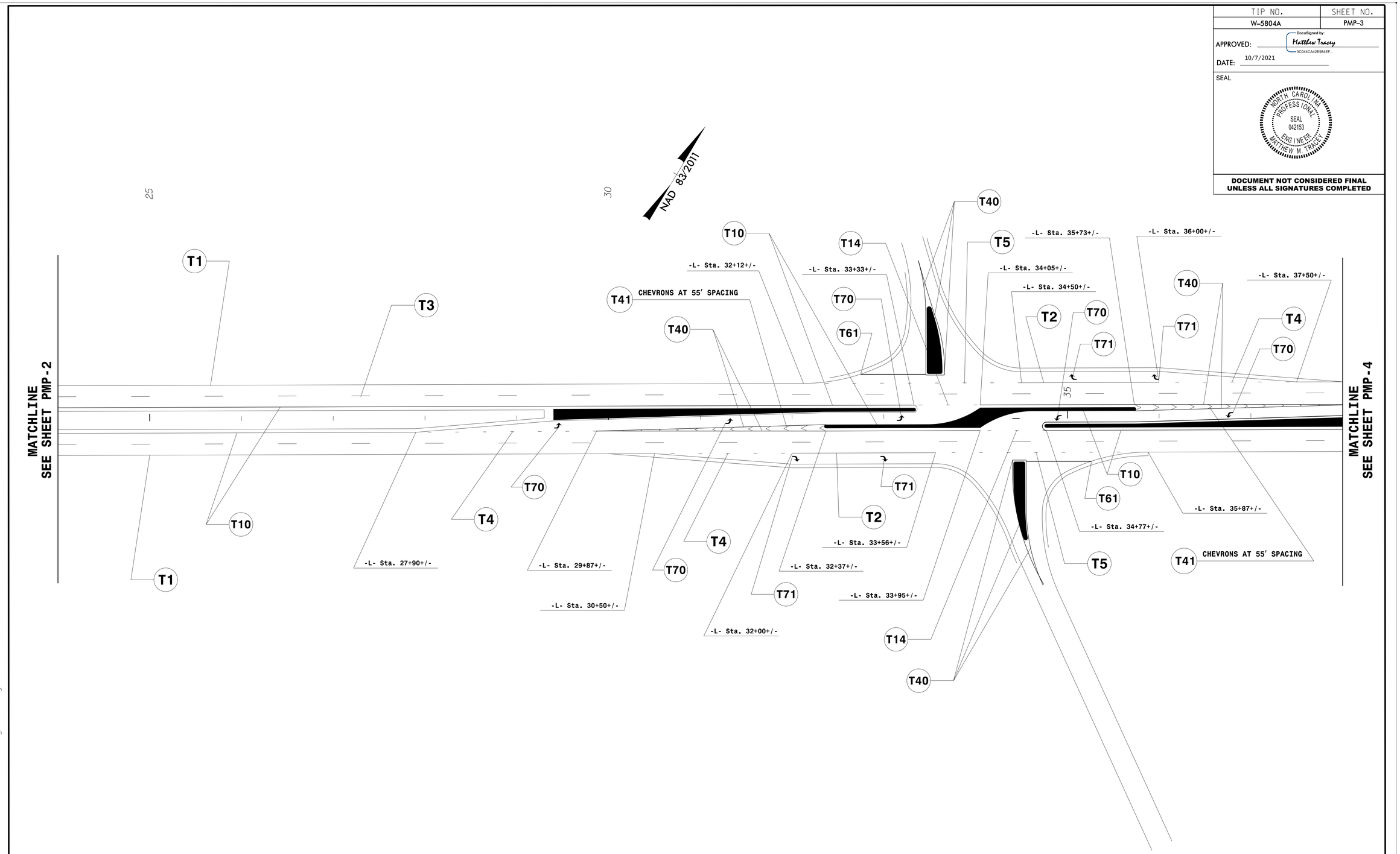
APPROVED: DocuSigned by: Matthew Tracy 3C044CA42E884EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PAVEMENT MARKING DETAIL

10/07/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Pavement Markings\PMP-3.dgn
User:mmtracey

DocuSign Envelope ID: 7789CC51-2731-4AB9-AC4D-5296A41FA11E

TIP NO.	SHEET NO.
W-5804A	PMP-4

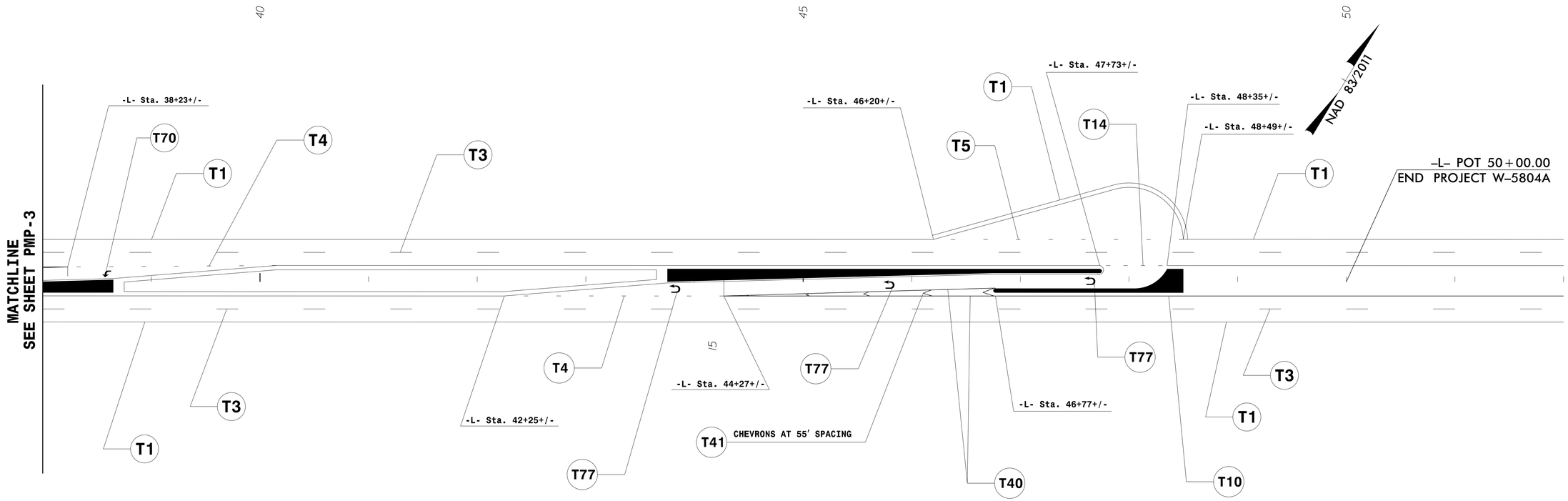
APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

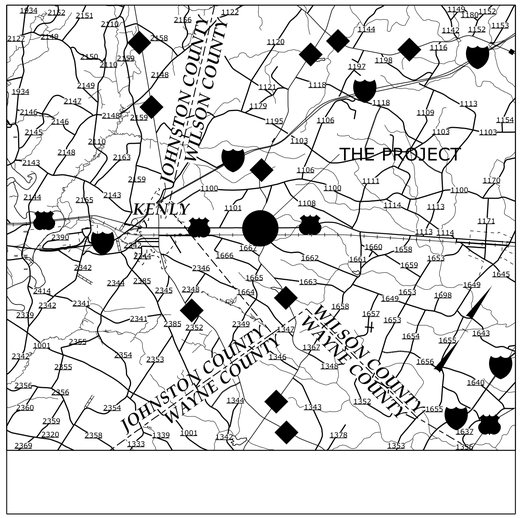
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PAVEMENT MARKING DETAIL

10/07/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Pavement Markings\PMP-4.dgn
User:mmtracey

TIP PROJECT: W-5804A



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILSON COUNTY

LOCATION: INTERSECTION OF US–301 & NC–581

TYPE OF WORK: GRADING, DRAINAGE AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5804A	EC-1	

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

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	EW 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	

NAD 83/2011

–L– POT 10+50.00
BEGIN PROJECT W–5804A

–Y1– POT 13+00.00
BEGIN CONST

NC–581
LINE –Y1–

–L– POT 50+00.00
END PROJECT W–5804A

TO KENLY

4

US–301
LINE –L–

5

6

TO LUCAMA

7

–Y2– POT 12+10.00
END CONST

NC–581
LINE –Y2–

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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 ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Designed by:

Wesley Chandler, PE ***3374***
NAME ***LEVEL III CERTIFICATION NO.***

Roadway Standard Drawings

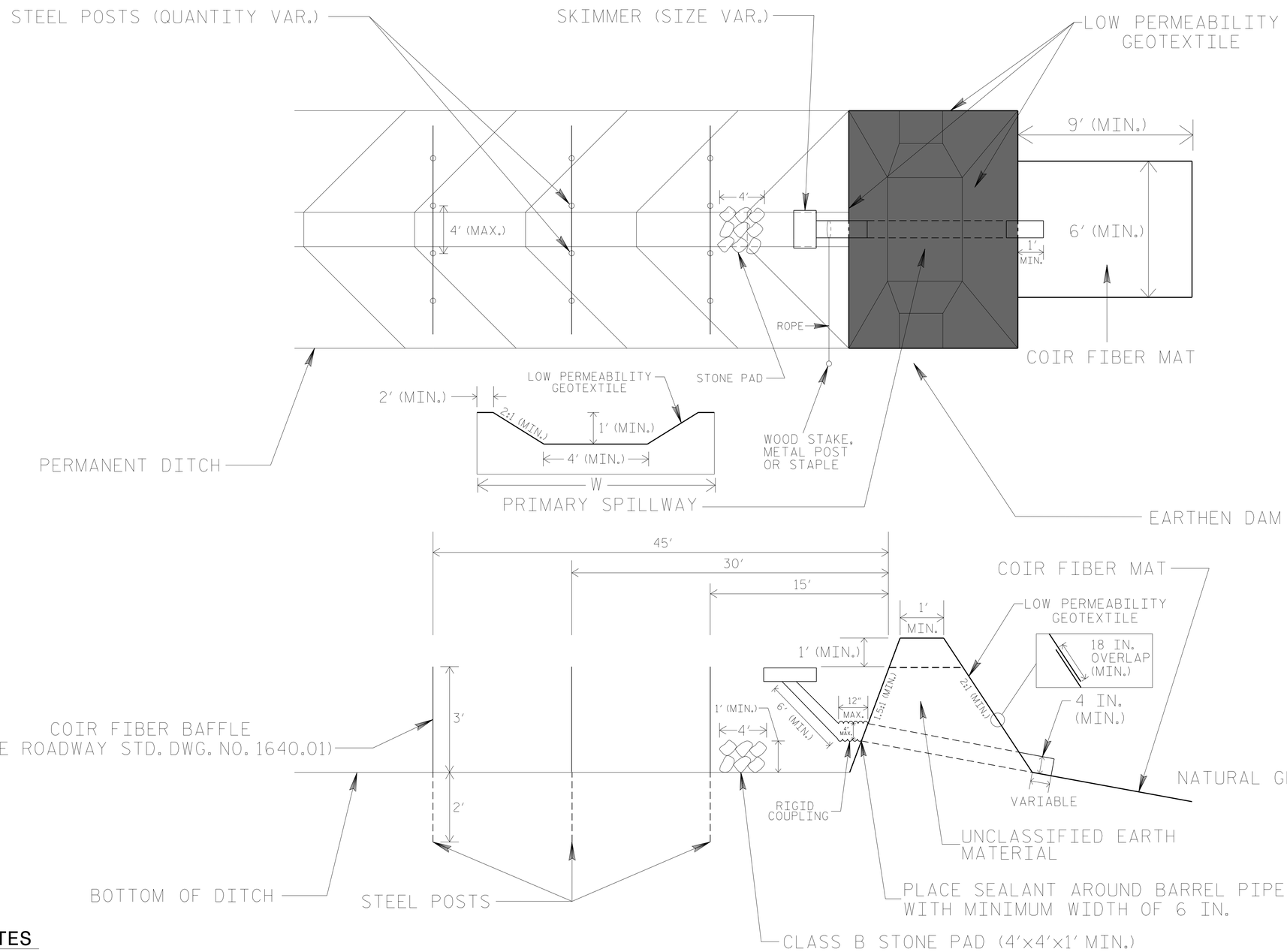
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

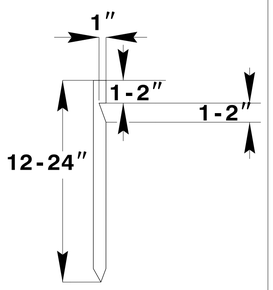
SYSTEM: 8888888888888888888888888888888888888888
DGN: 8888888888888888888888888888888888888888
USER NAME: 8888888888888888888888888888888888888888

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

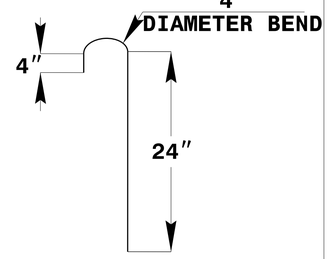
EARTHEN DAM WITH SKIMMER DETAIL (EAST)



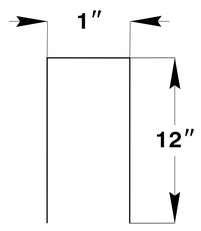
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

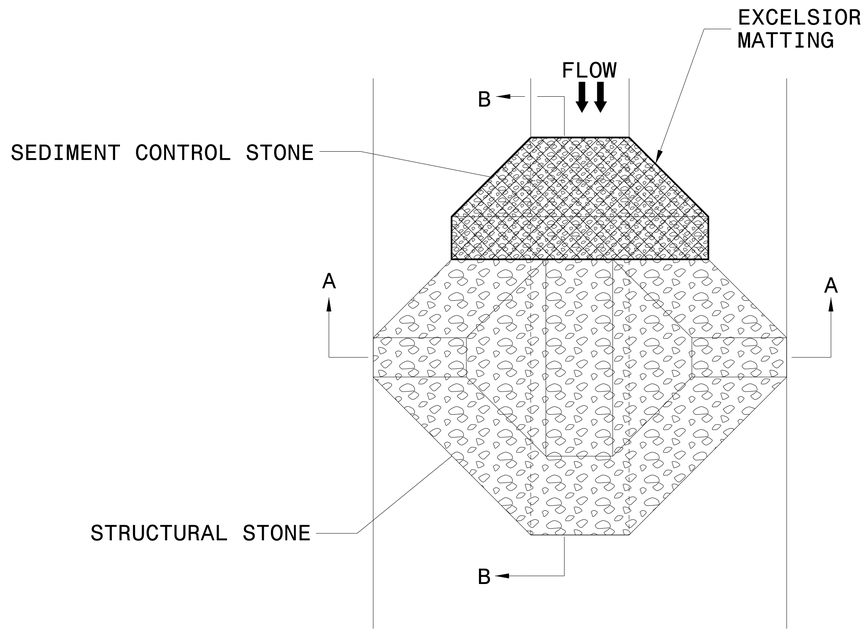
NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE PRIMARY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

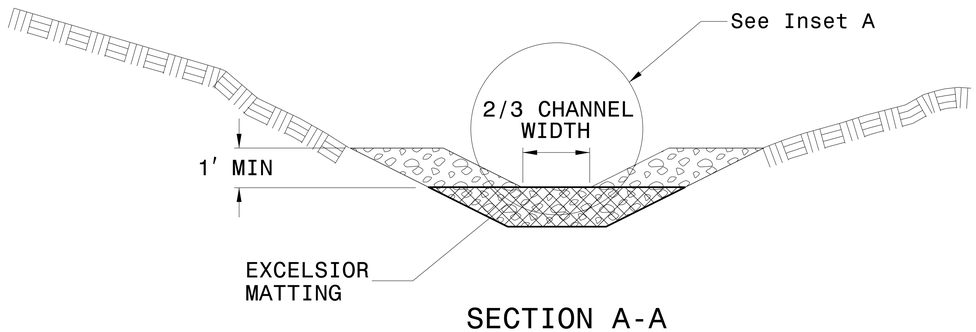
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

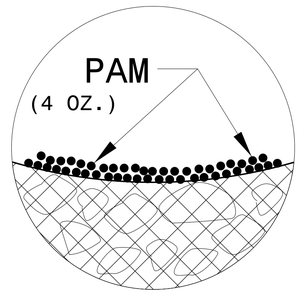
NOTES:

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

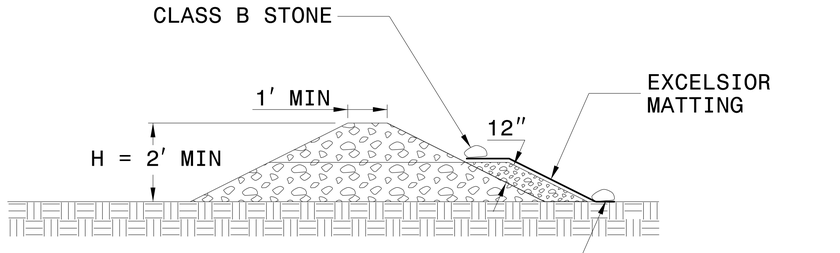
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

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



INSET A



SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

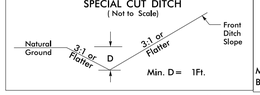
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	30+50	33+00	RT	175
				SUBTOTAL	175
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					1,710
				TOTAL	1,885
				SAY	1,900

MATTING FOR EROSION CONTROL

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

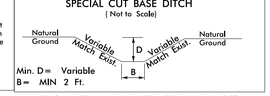
PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-4/CONST.4
RW SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 13+00 TO STA. 15+50 (RT)
FROM STA. 15+84 TO STA. 17+95 (RT)

DETAIL A
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM STA. 10+50 TO STA. 19+91 (LT)

SCOTT H.F. CRAWFORD ET, UX
DB 2300 PG 765
PB 7 PG 18

2

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.

0.75 inch Skimmer with 1.5 inch Orifice Diameter 6 ft. weir with 2 ft. weir height ID 4.1 (See Earthen Dam with Skimmer Detail)

–L– POT 10+50.00
BEGIN PROJECT W-5804A

SPECIAL CUT BASE DITCH
SEE DETAIL A

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT.

CL I RIP RAP
EST. 26 TON
EST. 49 SY GF

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

NAD 83/2011

15

20

WOODS

BILLBOARD

EXISTING R/W

Charter Communications

Century Link (2)

Century Link (2)

US 301 SB 29' BST

US 301 NB 26' BST

18" RCP

15" RCP

REMOVE 18" RCP

REMOVE 15" RCP

42" RCP

412

418 DI

417 DI

4' PROP CONC ISLAND

416 DI

415 DI

414 DI

411 DI

404 DI CONC

407 DI

405 DI

403 2GI

402 2GI

GRADE TO DRAIN
FROM ISLAND TO STR 403

PROP CONC ISLAND

B

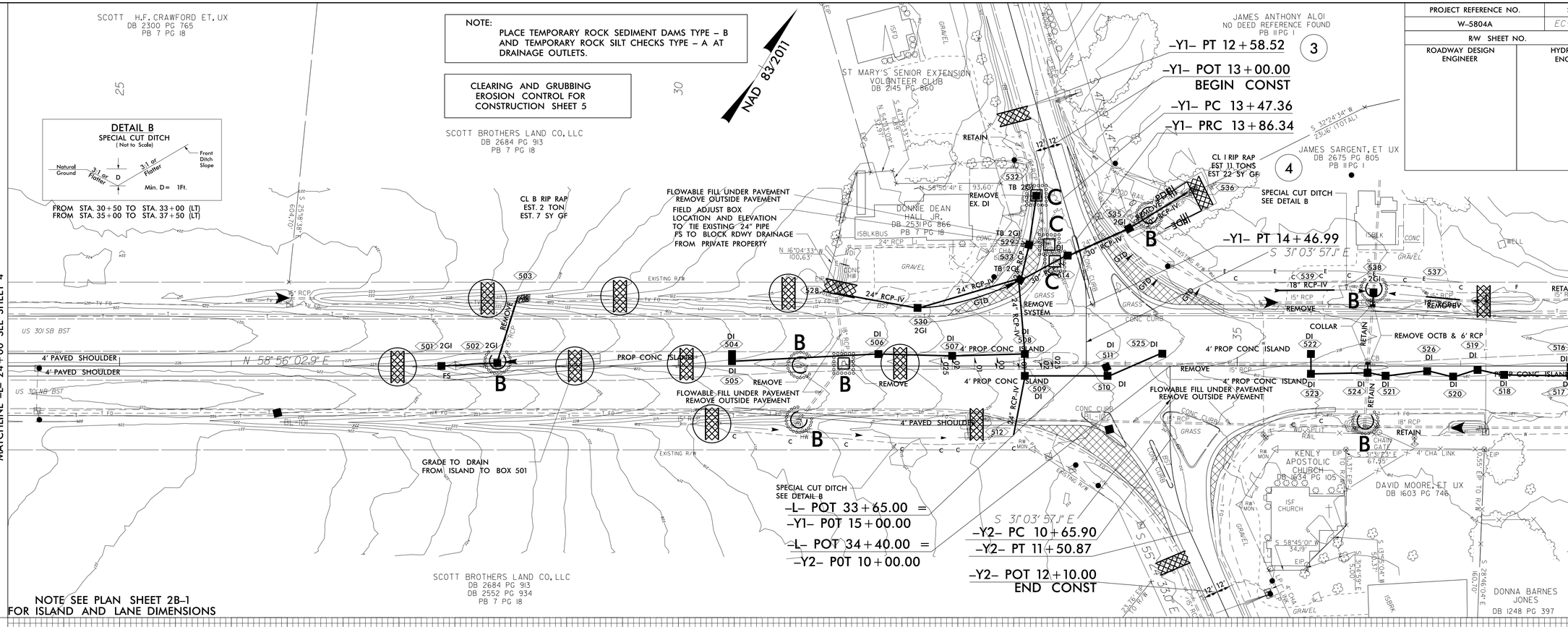
B

B

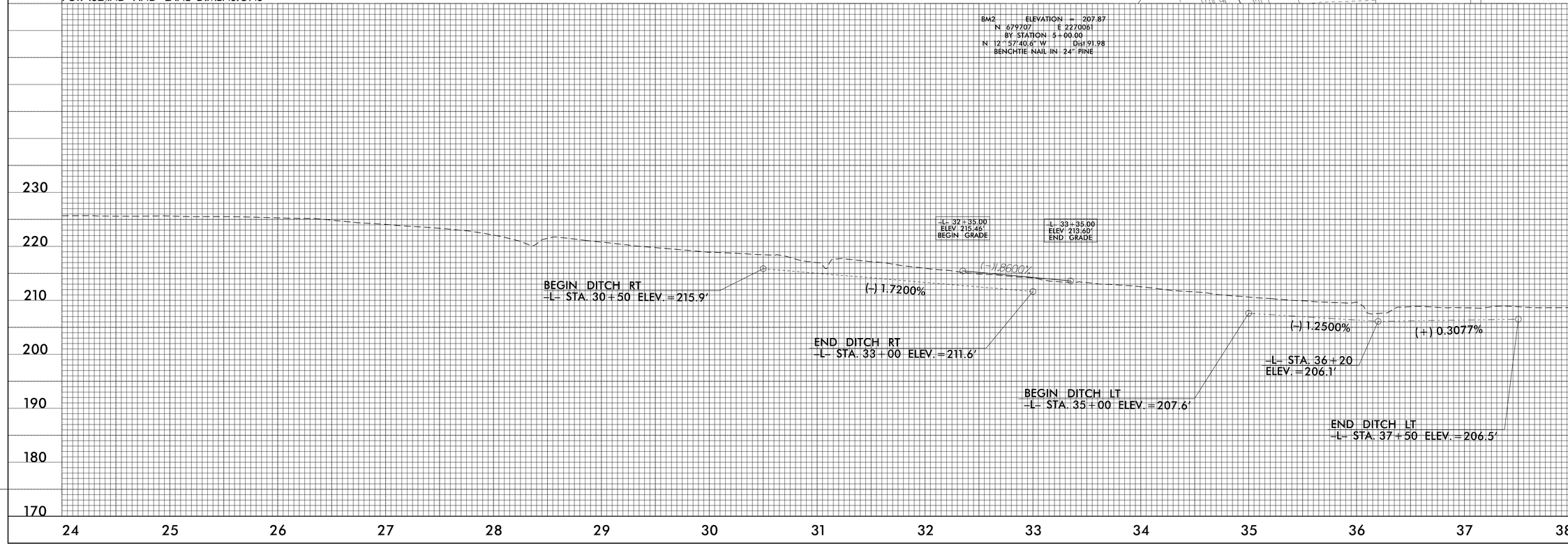
PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-5/CONST.5
R/W SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR CONSTRUCTION SHEET 5



NOTE SEE PLAN SHEET 2B–1
FOR ISLAND AND LANE DIMENSIONS



REVISIONS

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

DDC4

REVISIONS

$$$$$$$$SYSTIMES$$$$$
$$$$$$$$$$$$$$$$$$$$DGNS$$$$$$$$$$$$$$$$$$
$$$$$USERNAMES$$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-6/CONST.6
RW SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE SEE PLAN SHEET 2B-2
FOR ISLAND AND LANE DIMENSIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

5

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

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground, 4:1, D, 3:1 or Flatter, Front Ditch Slope, Min. D = 1.0Ft.

FROM STA. 46+50 TO STA. 49+00 (LT)

NAD 83/2011

MATCHLINE –L– 38+00 SEE SHEET 5

DEBRA K. THOMPSON
JAMES SARGENT, ET UX
DB 2767 PG 262
PB 11PG 1

JACKIE W. KIRBY
DEBORAH K THOMPSON
DB 2791PG 312
PB 11PG 1

DEBORAH K THOMPSON
JAMES SARGENT, ET UX
DB 2767 PG 312
PB 11PG 1

JAMES SARGENT, ET UX
DB 2675 PG 805
PB 11PG 1

DONNA BARNES JONES
DB 1248 PG 397

WALTER L. KIRBY, ET UX
DB 1945 PG 288
PB 11PG 1

JACKIE W. KIRBY
DB 1118 PG 514
PB 11PG 1

HTR, GRAVEL, WELL, COWS, ISBLK, EXISTING R/W, EIP, RETAIN, 15" RCP, T FO

N 58°-66'-02.9" E

S 15°-48'-16" E 472.27'

N 29°-93'-30" W 380.87'

S 32°-47'-33" E 686.75'

S 29°-56'-16" E 90.39'

13.02' EIP TO R/W

13.59' EIP TO R/W

CL B RIP RAP
EST. 2 TON
EST. 7 SY GF

B RIP RAP
EST. 3 TON
EST. 10 SY GF

SPECIAL CUT DITCH
SEE DETAIL C

4' PAVED SHOULDER

PROP CONC ISLAND

GRADE TO DRAIN
FROM ISLAND TO BOX 602

–L– POT 50+00.00
END PROJECT W-5804A

US 301 SB 29' BST
US 301 NB 26' BST

| | | |

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-7/CONST.7
RW SHEET NO.	07
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NAD 83/2011

DEBORAH K THOMPSON
JAMES SARGENT, ET UX
DB 2767 PG 312
PB 11PG 1

STEVEN L. & ANN KIRBY
DB 2767 PG 312
PB 11PG 1

JACKIE W. KIRBY, ET UX
DB 1471PG 715

JACKIE W. KIRBY
DB 1118 PG 514
PB 11PG 1

WALTER L. KIRBY, ET UX
DB 1945 PG 285

MATCHLINE –L– 52+00 SEE SHEET 6

–L– POT 65+00.00

REVISIONS

$$$$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-8/CONST.4
RW SHEET NO.	04
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SCOTT H.F. CRAWFORD ET, UX
DB 2300 PG 765
PB 7 PG 18

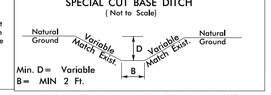
2

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 13+00 TO STA. 15+50 (RT)
FROM STA. 15+84 TO STA. 17+95 (RT)

DETAIL A
SPECIAL CUT BASE DITCH
(Not to Scale)



FROM STA. 10+50 TO STA. 19+91 (LT)

0.75 inch Skimmer with 1.5 inch Orifice Diameter 6 ft. weir with 2 ft. weir height ID 4.1 (See Earthen Dam with Skimmer Detail)

–L– POT 10+50.00
BEGIN PROJECT W–5804A

SPECIAL CUT BASE DITCH SEE DETAIL A

FLOWABLE FILL UNDER PAVEMENT REMOVE OUTSIDE PAVEMENT

CL I RIP RAP
EST. 26 TON
EST. 49 SY GF

FLOWABLE FILL UNDER PAVEMENT REMOVE OUTSIDE PAVEMENT

NAD 83/2011

15

20

WOODS

BILLBOARD

EXISTING R/W

Charter Communications

Century Link (2)

TV FO

US 301 SB 29' BST

US 301 NB 26' BST

18" RCP

15" RCP

REMOVE 24" RCP

REMOVE 18" RCP

REMOVE CL I RIP RAP

PROP CONC ISLAND

GRADE TO DRAIN FROM ISLAND TO STR 403

403 2GI

402 2GI

404 DI

405 DI

406 DI

407 DI

411 DI

412

414 DI

415 DI

416 DI

417 DI

418 DI

FS

I N 58° 02.9" E

4' PAVED SHOULDER

W-5804A-1

W-5804A-2

CUTOVER

410 HW

CONC HW

DRIVE BY OTHERS 45'

DRIVE BY OTHERS 45'

SPECIAL CUT DITCH SEE DETAIL B

SPECIAL CUT DITCH SEE DETAIL B

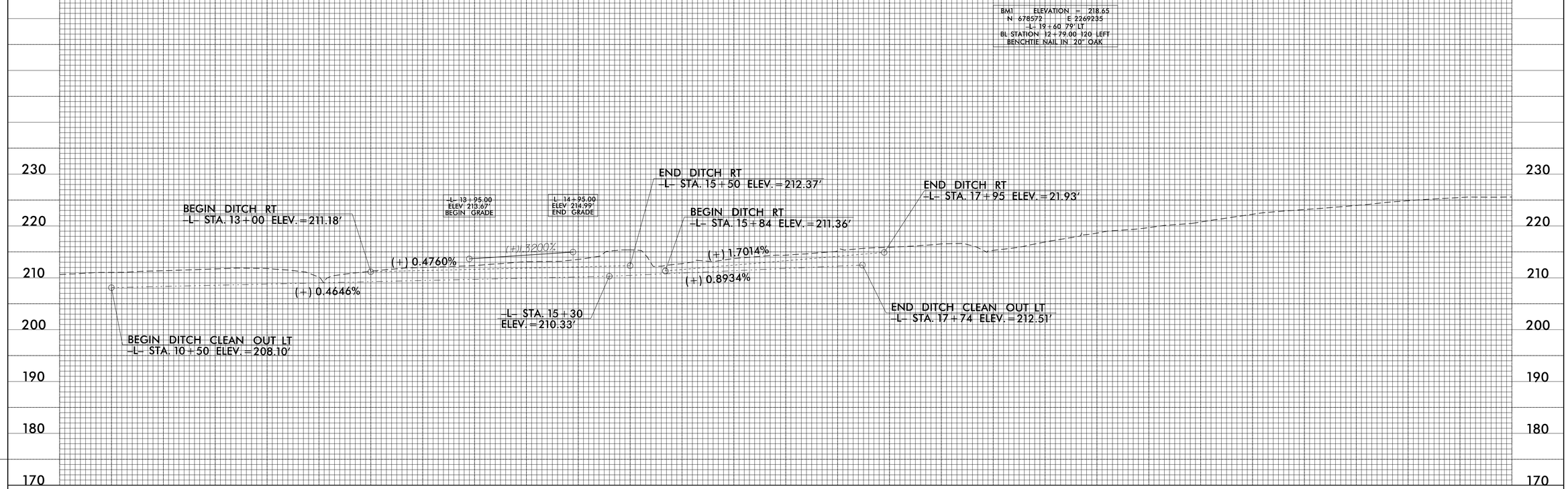
MATCHLINE –L– 24+00 SEE SHEET 5

1

SCOTT BROTHERS LAND CO, LLC
DB 2684 PG 913
DB 2552 PG 934
PB 7 PG 18

NOTE SEE PLAN SHEET 2B–1
FOR ISLAND AND LANE DIMENSIONS

BM1 ELEVATION = 218.65
N 678572 E 2269235
–L– 19+60.79' LT
BL STATION 12+79.00 120' LEFT
BENCHTIE NAIL IN 20" OAK



REVISIONS

SSSSSSSSYSTIMESSSSSS
SSSSSSSSSSSSSSSSSSDGNSSSSSSSSSSSSSSSSSS
SSSSUSERNAMESSSSS

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-9/CONST.5
RW SHEET NO.	05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

SSSSSSSSYSTIMESSSSS
SSSSSSSSSSSSSSSSSDGNSSSSSSSSSSSSSSSSSS
SSSSSUSERNAMESSSSS

SCOTT H.F. CRAWFORD ET. UX
DB 2300 PG 765
PB 7 PG 18

SCOTT BROTHERS LAND CO, LLC
DB 2684 PG 913
PB 7 PG 18

SCOTT BROTHERS LAND CO, LLC
DB 2684 PG 913
DB 2552 PG 934
PB 7 PG 18

NAD 83/2011

JAMES ANTHONY ALOI
NO DEED REFERENCE FOUND
PB 11PG 1

ST MARY'S SENIOR EXTENSION VOLUNTEER CLUB
DB 2145 PG 860

DONNIE DEAN HALL JR.
DB 2531 PG 866
PB 7 PG 18

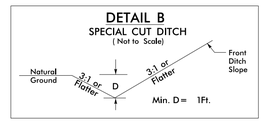
JAMES SARGENT, ET UX
DB 2675 PG 805
PB 11PG 1

KENLY APOSTOLIC CHURCH
DB 1634 PG 105

DAVID MOORE, ET UX
DB 1603 PG 746

DONNA BARNES JONES
DB 1248 PG 397

DETAIL B
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 30+50 TO STA. 33+00 (LT)
FROM STA. 35+00 TO STA. 37+50 (LT)

MATCHLINE –L– 24+00 SEE SHEET 4

MATCHLINE –L– 38+00 SEE SHEET 6

–Y1– PT 12+58.52
–Y1– POT 13+00.00
BEGIN CONST
–Y1– PC 13+47.36
–Y1– PRC 13+86.34
–Y1– PT 14+46.99

CL I RIP RAP
EST 11 TONS
EST 22 SY GF

SPECIAL CUT DITCH
SEE DETAIL B

CL B RIP RAP
EST. 2 TON
EST. 7 SY GF

FLOWABLE FILL UNDER PAVEMENT
REMOVE OUTSIDE PAVEMENT

FIELD ADJUST BOX
LOCATION AND ELEVATION
TO TIE EXISTING 24" PIPE
FS TO BLOCK RDWY DRAINAGE
FROM PRIVATE PROPERTY

GRADE TO DRAIN
FROM ISLAND TO BOX 501

SPECIAL CUT DITCH
SEE DETAIL B

–L– POT 33+65.00 =
–Y1– POT 15+00.00

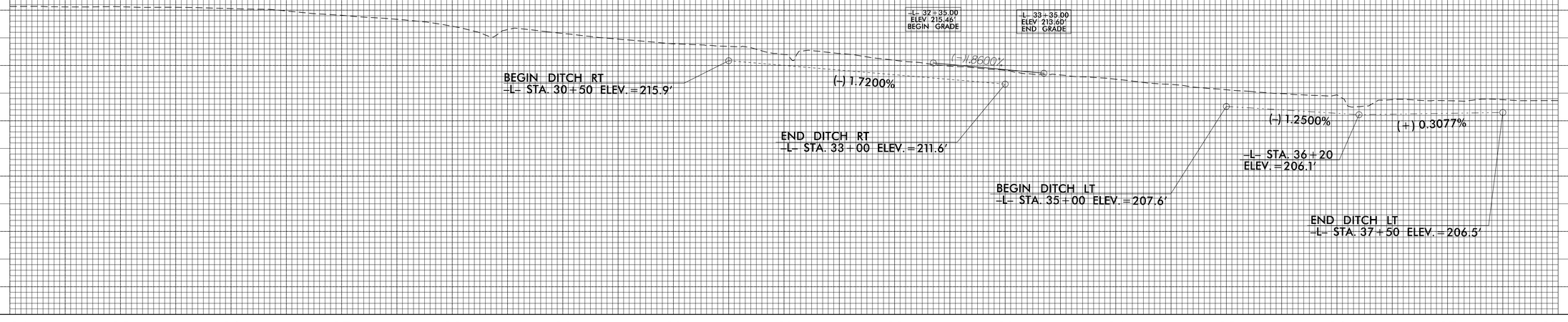
–L– POT 34+40.00 =
–Y2– POT 10+00.00

–Y2– PC 10+65.90
–Y2– PT 11+50.87

–Y2– POT 12+10.00
END CONST

NOTE SEE PLAN SHEET 2B–1
FOR ISLAND AND LANE DIMENSIONS

BM2 ELEVATION = 207.87
N 679707 E 2270061
BY STATION 5+00.00
N 12°57'40.6" W Dist 91.98
BENCHTIE NAIL IN 24" PINE



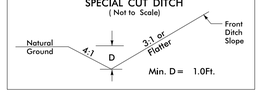
DDC4

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-10/CONST.6
RW SHEET NO.	06
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE SEE PLAN SHEET 2B-2 FOR ISLAND AND LANE DIMENSIONS

5

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 46+50 TO STA. 49+00 (LT)

NAD 83/2011

DEBRA K. THOMPSON
JAMES SARGENT, ET UX
DB 2767 PG 262
PB 11PG 1

JACKIE W. KIRBY
DEBORAH K THOMPSON
DB 2791PG 312
PB 11PG 1

DEBORAH K THOMPSON
JAMES SARGENT, ET UX
DB 2767 PG 312
PB 11PG 1

JAMES SARGENT, ET UX
DB 2675 PG 805
PB 11PG 1

DONNA BARNES JONES
DB 1248 PG 397

WALTER L. KIRBY, ET UX
DB 1945 PG 288
PB 11PG 1

JACKIE W. KIRBY
DB 1118 PG 514
PB 11PG 1

MATCHLINE -L- 38+00 SEE SHEET 5

-L- POT 50+00.00
END PROJECT W-5804A

SPECIAL CUT DITCH
SEE DETAIL C

CL B RIP RAP
EST. 2 TON
EST. 7 SY GF

CL B RIP RAP
EST. 3 TON
EST. 10 SY GF

GRADE TO DRAIN
FROM ISLAND TO BOX 602

PROP CONC ISLAND

4' PAVED SHOULDER

US 301 SB 29' BST

US 301 NB 26' BST

BL-103

BL-104

BM-3

BM3 ELEVATION = 197.73
N 680142 E 2272108
-L- 52+30.59 RT
BL STATION 45+50.00 15 RIGHT
BENCHTIE NAIL IN 30" PINE

L: 46+75.00
ELEV 200.52'
BEGIN GRADE

L: 47+75.00
ELEV 199.58'
END GRADE

(-)0.9400%

(-) 1.0800%

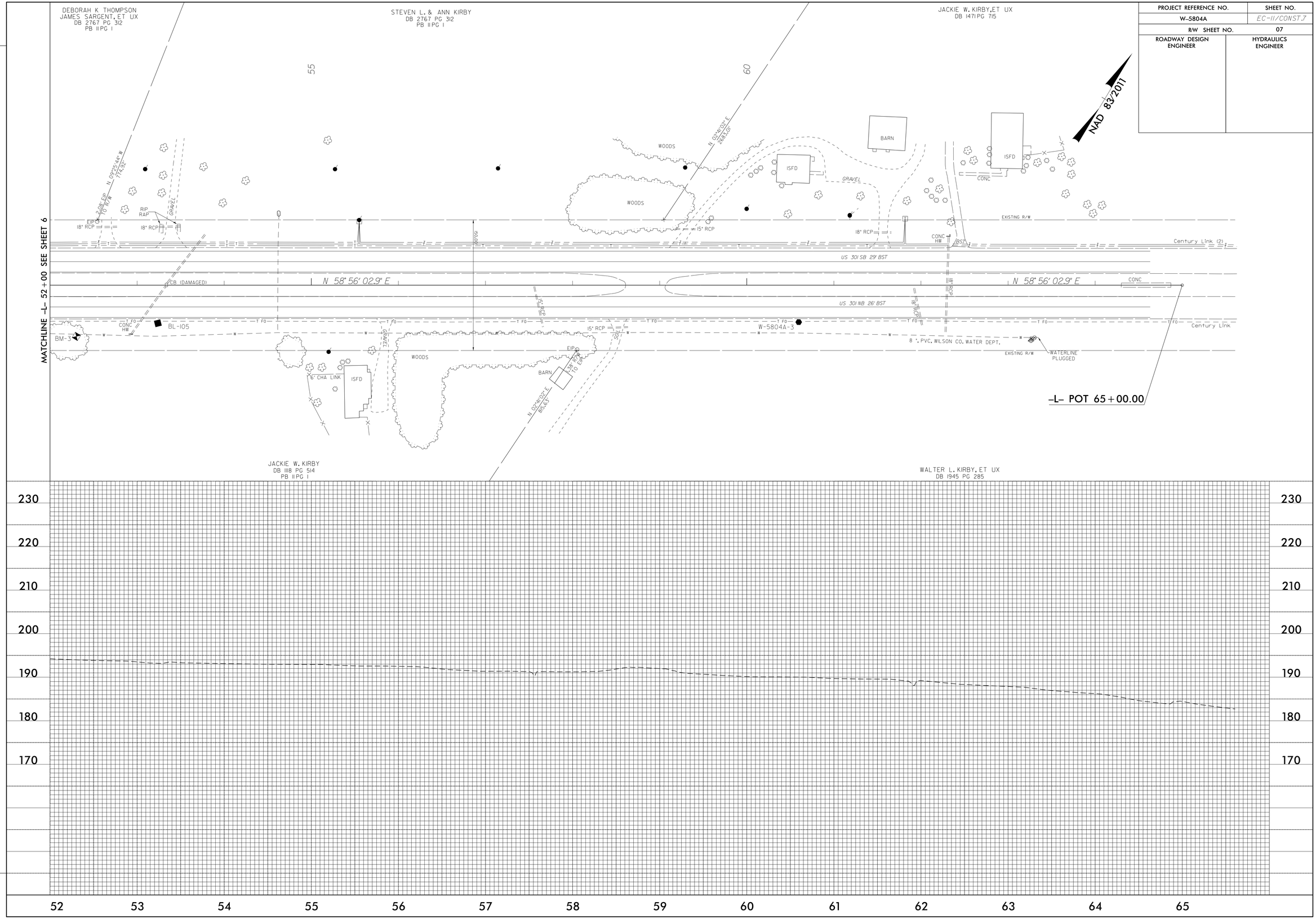
BEGIN DITCH LT
-L- STA. 46+50 ELEV. =197.2'

END DITCH LT
-L- STA. 49+00 ELEV. =194.5'

REVISIONS

$$$$$$$$SYSTIMES$$$$$
$$$$$$$$$$$$$$$$$$DGNS$$$$$$$$$$$$$$$$$$
$$$$$USERNAMES$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5804A	EC-11/CONST.7
R/W SHEET NO.	07
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-1

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
WILSON COUNTY

LOCATION: INTERSECTION OF US-301 & NC-581

T.I.P.: W-5804A

CONTRACT:

ROADWAY STANDARD DRAWING

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

STD. NO.	TITLE
901.50	ARROWS AND SHIELDS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.30	SIGNING SIGNALIZED AND UNSIGNALIZED SUPERSTREET

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

SUMMARY OF QUANTITIES

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	779	L.F.
4096000000	904	SIGN ERECTION, TYPE D	5	EA.
4102000000	904	SIGN ERECTION, TYPE E	16	EA.
4108000000	904	SIGN ERECTION, TYPE F	11	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	44	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	1	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	5	EA.

PROJECT NOTES

1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2 SIGN ERECTION, RELOCATE SIGN TYPE E
3 SIGN ERECTION, RELOCATE SIGN TYPE D
4 DISPOSAL OF SUPPORT, U-CHANNEL

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-3	SIGN DESIGNS
SIGN-4	TYPE E AND F SIGNS
SIGN-5-10	SIGNING PLAN SHEETS

PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

A. ALQUDWAH, PE — SIGNING & DELINEATION REGIONAL ENGINEER
M. TRACEY, PE — SIGNING & DELINEATION PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

THREE WAY CHECK

MATTHEW TRACEY, PE
JOSE MARTINEZ, PE
MITCH EATON, PE

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\2018.PEF Engseed.07-16-18.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-2

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 301
TYPE: D
QUANTITY: 1
SIGN WIDTH: 5'-0"
HEIGHT: 2'-6"
TOTAL AREA: 12.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 2.25"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

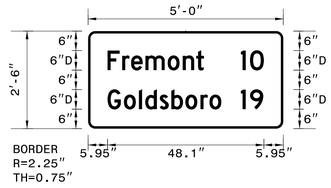
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
PROJECT ID: W-5804A
CHECKED BY:
LOCATION:
Feb 17, 2021
DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																														Series/Size Text Length
		F	r	e	m	o	n	t																						D 2000
	6	4.5	2.8	4.4	6.8	4.6	4.1	2.4	24.4																					29.6
		1	0																											D 2000
	47	2.8	4.3	6																										7.1
		G	o	l	d	s	b	o	r	o																				D 2000
	6	5	4.6	1.9	4.4	3.6	4.3	4.6	2.8	3.7	19.1																			35
		1	9																											D 2000
	47	2.8	4.1	6.2																										6.9

FILENAME: W-5804A Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 3'-0"
TOTAL AREA: 21.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

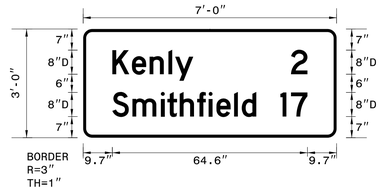
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
PROJECT ID: W-5804A
CHECKED BY:
LOCATION:
Feb 16, 2021
DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																														Series/Size Text Length
		K	e	n	l	y																								D 2000
	9.7	6.5	5.8	6.2	2.2	6	47.5																							26.8
		2																												D 2000
	68.9	5.4	9.7																											5.4
		S	m	i	t	h	f	i	e	l	d																			D 2000
	9.7	6.6	9.4	2.2	4.1	5.8	3.8	2.6	5.8	2.6	4.8	26.6																		47.7
		1	7																											D 2000
	65.4	3.5	5.4	9.7																										9

FILENAME: W-5804A Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 3'-0"
TOTAL AREA: 21.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

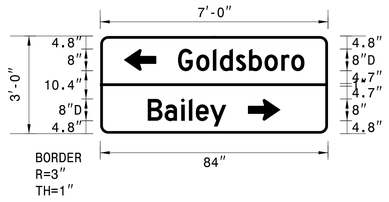
SYMBOL	X	Y	WID	HT
AR_Type D	8.7	23.2	8	12
AR_Type D	54.5	4.8	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
PROJECT ID: W-5804A
CHECKED BY:
LOCATION:
May 03, 2021
DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																														Series/Size Text Length
		G	o	l	d	s	b	o	r	o																				D 2000
	28.7	6.7	6.2	2.6	5.9	4.8	5.8	6.2	3.7	4.9	8.7																			46.6
		B	a	i	l	e	y																							D 2000
	17.5	6.2	6.1	2.9	2.6	5.2	6	37.5																						29

FILENAME: W-5804A Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 3'-0"
TOTAL AREA: 21.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

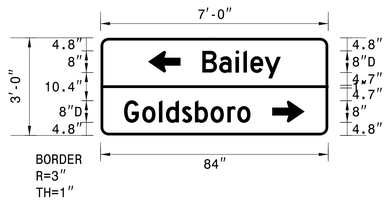
SYMBOL	X	Y	WID	HT
AR_Type D	17.5	23.2	8	12
AR_Type D	63.3	4.8	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade c sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
PROJECT ID: W-5804A
CHECKED BY:
LOCATION:
May 03, 2021
DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																														Series/Size Text Length
		B	a	i	l	e	y																							D 2000
	37.5	6.2	6.1	2.9	2.6	5.2	6	17.5																						29
		G	o	l	d	s	b	o	r	o																				D 2000
	8.7	6.7	6.2	2.6	5.9	4.8	5.8	6.2	3.7	4.9	28.7																			46.6

FILENAME: W-5804A Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS

10/06/21
St\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Sign Designs\W-5804A Sign Designs.dgn
User:mmcasey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

SIGN NUMBER: 305
TYPE: D
QUANTITY: 1

SIGN WIDTH: 8′-0″
HEIGHT: 3′-0″
TOTAL AREA: 24.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0″
WIDTH: 1″
RADII: 3″

NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125″ (3.2 mm) ALUMINUM

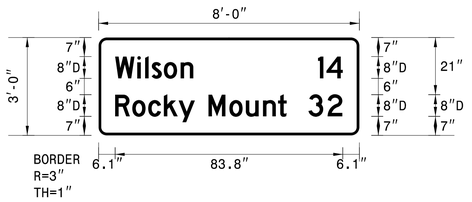
USE NOTES: 1,2

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

DESIGN BY: M. TRACEY
PROJECT ID: W-5804A

CHECKED BY:
LOCATION:

May 03, 2021
DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																										Series/Size Text Length
		W	i	l	s	o	n																			D 2000
	6.1	8.2	2.9	2.4	4.5	6.2	4.7	61.1																		28.8
		1	4																							D 2000
	80.8	3.1	6	6.1																						9.1
		R	o	c	k	y		M	o	u	n	t														D 2000
	6.1	6.3	5.8	5.8	5.4	6	5	7.7	6.1	6.3	5.5	3.2	26.7													63.2
		3	2																							D 2000
	77.3	7	5.4	6.3																						12.5

FILENAME: W-5804A Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

TIP NO.	SHEET NO.
W-5804A	SIGN-3

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E884EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Sign Designs\W-5804A Sign Designs.dgn
User:mmtracey

SIGN DESIGNS

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-4

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

401 QUANTITY REQ'D 3



36" X 36"
R1-1

ONE "U" POST PER SIGN
MOUNT BELOW SIGN 402 IN
IN 3 INSTALLATIONS

406 QUANTITY REQ'D 1



30" X 30"
W3-1

ONE "U" POST PER SIGN

501



1 - 24" X 12"
1 - 30" X 24"

ONE "U" POST PER ASSEMBLY

506



1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER ASSEMBLY

402 QUANTITY REQ'D 3



54" X 18"
R6-1 (R)

TWO "U" POSTS PER SIGN

407 QUANTITY REQ'D 1



30" X 30"
W10-1

ONE "U" POST PER SIGN

502 510



1 - 24" X 12"
1 - 30" X 24"

ONE "U" POST PER ASSEMBLY

507



1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER ASSEMBLY

403 QUANTITY REQ'D 2



54" X 18"
R6-1 (L)

TWO "U" POSTS PER SIGN

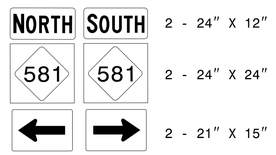
503



1 - 24" X 12"
1 - 30" X 24"
1 - 21" X 21"

ONE "U" POST PER ASSEMBLY

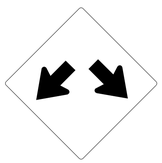
508



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER ASSEMBLY

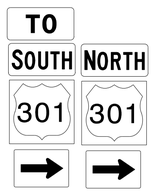
404 QUANTITY REQ'D 4



36" X 36"
W12-1

ONE "U" POST PER SIGN

504



1 - 24" X 12"
2 - 24" X 12"
2 - 30" X 24"
2 - 21" X 15"

TWO "U" POSTS PER ASSEMBLY

509



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER ASSEMBLY

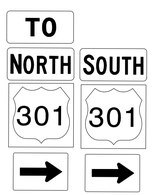
405 QUANTITY REQ'D 2



36" X 36"
R3-4

ONE "U" POST PER SIGN

505



1 - 24" X 12"
2 - 24" X 12"
2 - 30" X 24"
2 - 21" X 15"

TWO "U" POSTS PER ASSEMBLY

511



1 - 24" X 12"
1 - 30" X 24"
1 - 21" X 21"

ONE "U" POST PER ASSEMBLY

TYPE E AND F SIGNS

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\2018.PEF Engseed_07-16-18.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-5

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ALL SIGNS THIS SHEET SEE PROJECT NOTE 1 UNLESS OTHERWISE NOTED

NAD 83/2011

15

20

ONE WAY

–L– POT 10+50.00
BEGIN PROJECT W-5804A

DO NOT ENTER

DO NOT ENTER

ONE WAY

Southern National Motorsports Park

EXISTING LOCATION
SEE NOTES 3,4

CHURCH OF GOD CONFERENCE CENTER

EXISTING LOCATION
SEE NOTES 3,4

VEHICLE ENTERING WHEN FLASHING

2 SIGNS

MATCHLINE
SEE SHEET SIGN-6

EXISTING SIGNS

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_04.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-6

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ALL SIGNS THIS SHEET SEE PROJECT NOTE 1 UNLESS OTHERWISE NOTED

NAD 83/2011

25 30 35

MATCHLINE SEE SHEET SIGN-5

MATCHLINE SEE SHEET SIGN-7

KENLY 2 SMITHFIELD 17

SOUTH 301

STOP 4 SIGNS

KENLY WILSON

NORTH 581

2 SIGNS YIELD

DO NOT ENTER

ONE WAY

NORTH 581

SOUTH 581

NORTH 301

SOUTH 301

4 SIGNS STOP

YIELD

DO NOT ENTER

NORTH 581

SOUTH 581

45 M.P.H.

2 SIGNS

GOLDSBORO BAILEY 581 JCT

ADOPT A HIGHWAY 1M LENGTH MEMORY OF MARTIN SCOTT HOOKS SEE NOTES 2 AND 4

SOUTH 581

R R

FREMONT 10 GOLDSBORO 19

KENLY WILSON

SOUTH 301 NORTH 301

EXISTING SIGNS

10/06/2021 S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_05.dgn User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-7

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

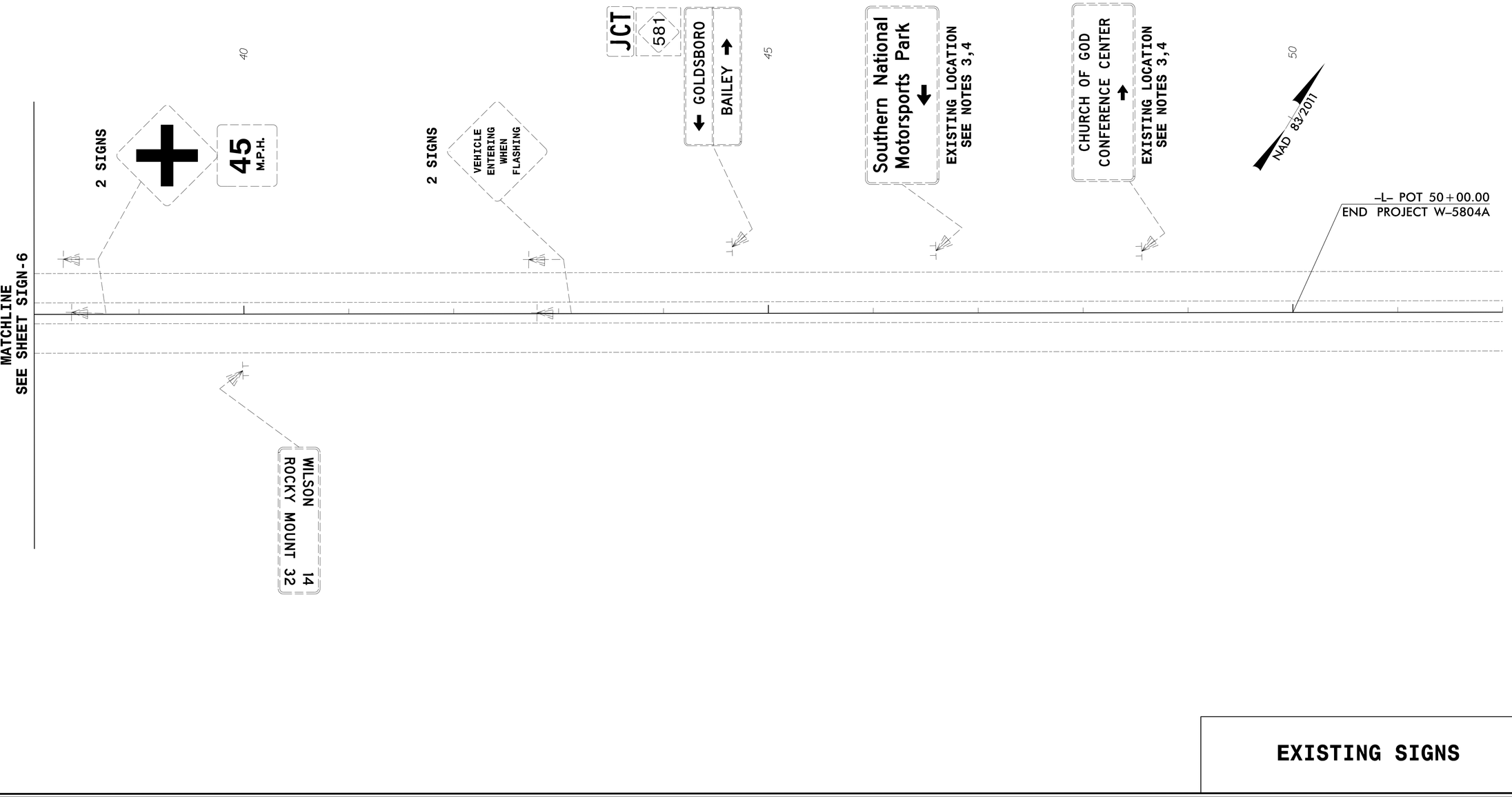
DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042153 MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ALL SIGNS THIS SHEET SEE PROJECT NOTE 1 UNLESS OTHERWISE NOTED



EXISTING SIGNS

10/06/2021
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_06.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-8

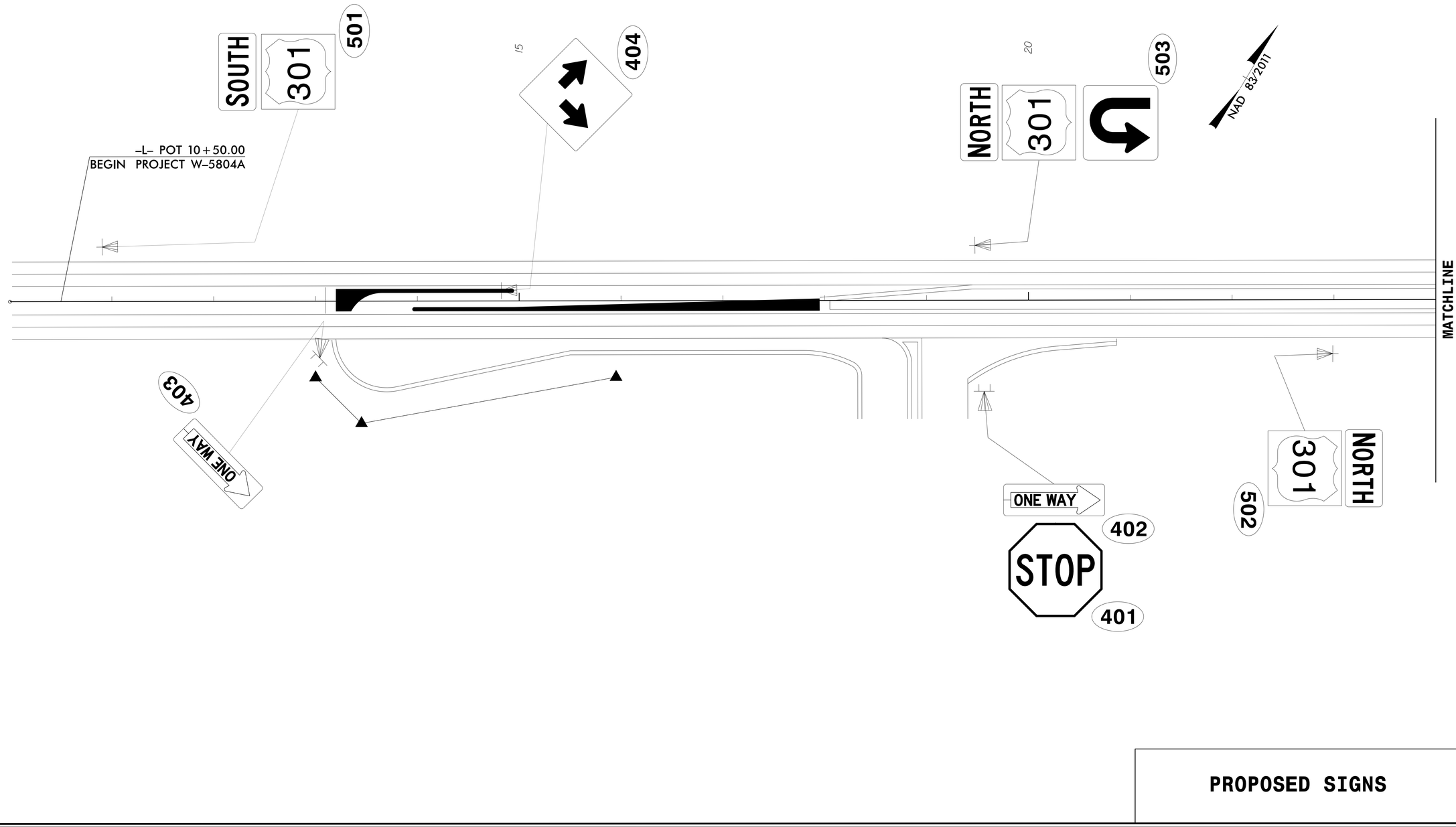
APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PROPOSED SIGNS

10/06/21
St:S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_04.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-9

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042153 MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE
SEE SHEET SIGN-8

MATCHLINE
SEE SHEET SIGN-10

25

30

35

NAD 83/2011

84" X 36"
Kenly 2
Smithfield 17
-L- STA. 26+00
302

TO NORTH 301
SOUTH 301
505

NORTH 581
507

STOP
401
ONE WAY
402

405

404

NORTH 581
SOUTH 581
509

84" X 36"
Bailey
Goldsboro
-L- STA. 29+00
304

NORTH 581
SOUTH 581
508

404

405

ADOPT A HIGHWAY
RELOCATE
TX LOCTNS MNGMNT OF MARTIN SCOTT HOMES

SOUTH 581
506

ONE WAY
STOP
402
401

TO SOUTH 301
NORTH 301
504

R R
407

406

60" x 30"
Fremont 10
Goldsboro 19
301

Southern National Motorsports Park
PROPOSED RELOCATION
-L- STA. 25+00

CHURCH OF GOD
CONFERENCE CENTER
PROPOSED RELOCATION
-L- STA. 27+00

PROPOSED SIGNS

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_05.dgn
User:mmtracey

DocuSign Envelope ID: 8C997BF7-6637-40AE-A721-0E4DB880FC31

TIP NO.	SHEET NO.
W-5804A	SIGN-10

APPROVED: DocuSigned by: Matthew Tracey 3C044CA42E984EF...

DATE: 10/7/2021

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 042153 ENGINEER MATTHEW M. TRACEY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE
SEE SHEET SIGN-9

84" X 36"
Goldsboro
Bailey
303
-L- STA. 38+29

40

Southern National Motorsports Park
PROPOSED RELOCATION
-L- STA. 40+82

45

CHURCH OF GOD CONFERENCE CENTER
PROPOSED RELOCATION
-L- STA. 44+82

50

ONE WAY
403

NAD 83/2011

-L- POT 50+00.00
END PROJECT W-5804A

511
301
SOUTH

404

510
301
NORTH

96" X 36"
Wilson 14
Rocky Mount 32
-L- STA. 38+50
305

PROPOSED SIGNS

10/06/21
S:\S&DU\TIPPROJECTS\W-5804A\Traffic\Signing\CADD\Signing Layout Plans\W-5804A_sgn_06.dgn
User:mmtracey

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	X-1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDES BACKFILL FOR UNDERCUT

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
10+50			
11+00	20	1	
11+50	17	1	
12+00	16	4	
12+50	15	23	
13+00	17	30	
13+50	30	27	
14+00	67	36	
14+50	85	34	
15+00	76	39	
15+50	70	42	
16+00	69	69	
16+50	61	90	
17+00	47	72	
17+50	40	64	
18+00	26	56	
18+50	22	44	
19+00	14	47	
19+50	5	41	
20+00	6	26	
20+50	6	21	
21+00	6	20	
21+50	6	18	
22+00	6	14	
22+50	6	11	
23+00	9	7	
23+50	12	3	
24+00	13	3	
24+50	10	5	
25+00	9	5	
25+50	10	5	
26+00	9	6	
26+50	9	6	
27+00	9	7	
27+50	8	8	
28+00	6	14	
28+50	5	18	
29+00	8	11	
29+50	12	6	
30+00	14	4	
30+50	18	9	
31+00	23	23	
31+50	28	28	
32+00	33	23	
32+50	36	17	
33+00	41	6	
33+50	29		
34+00	10		
34+50	16		
35+00	36		
35+50	64	1	
36+00	67	6	

STATION L	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
36+50	54	8	
37+00	49	4	
37+50	42	6	
38+00	23	5	
38+50	11	6	
39+00	9	16	
39+50	9	19	
40+00	9	14	
40+50	8	12	
41+00	6	15	
41+50	6	18	
42+00	6	21	
42+50	6	20	
43+00	5	33	
43+50	6	31	
44+00	7	15	
44+50	8	10	
45+00	10	9	
45+50	10	12	
46+00	10	13	
46+50	14	30	
47+00	20	69	
47+50	22	115	
48+00	29	133	
48+50	52	115	
49+00	35	53	
49+50		15	
50+00		14	

STATION Y1	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
13+00			
13+50			
14+00	8		
14+50	86		
15+00	78		

STATION Y2	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
10+00			
10+50	65		
11+00	69		
11+50	8		
12+00	8		

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-1

213.13
14+50.00

212.38
14+00.00

BEGIN ISLAND RIGHT

212.33
13+95.00

212.01
13+50.00

BEGIN ISLAND

211.67
13+20.00

GRADE TO DRAIN FROM STA. 13+10. TO 11+68

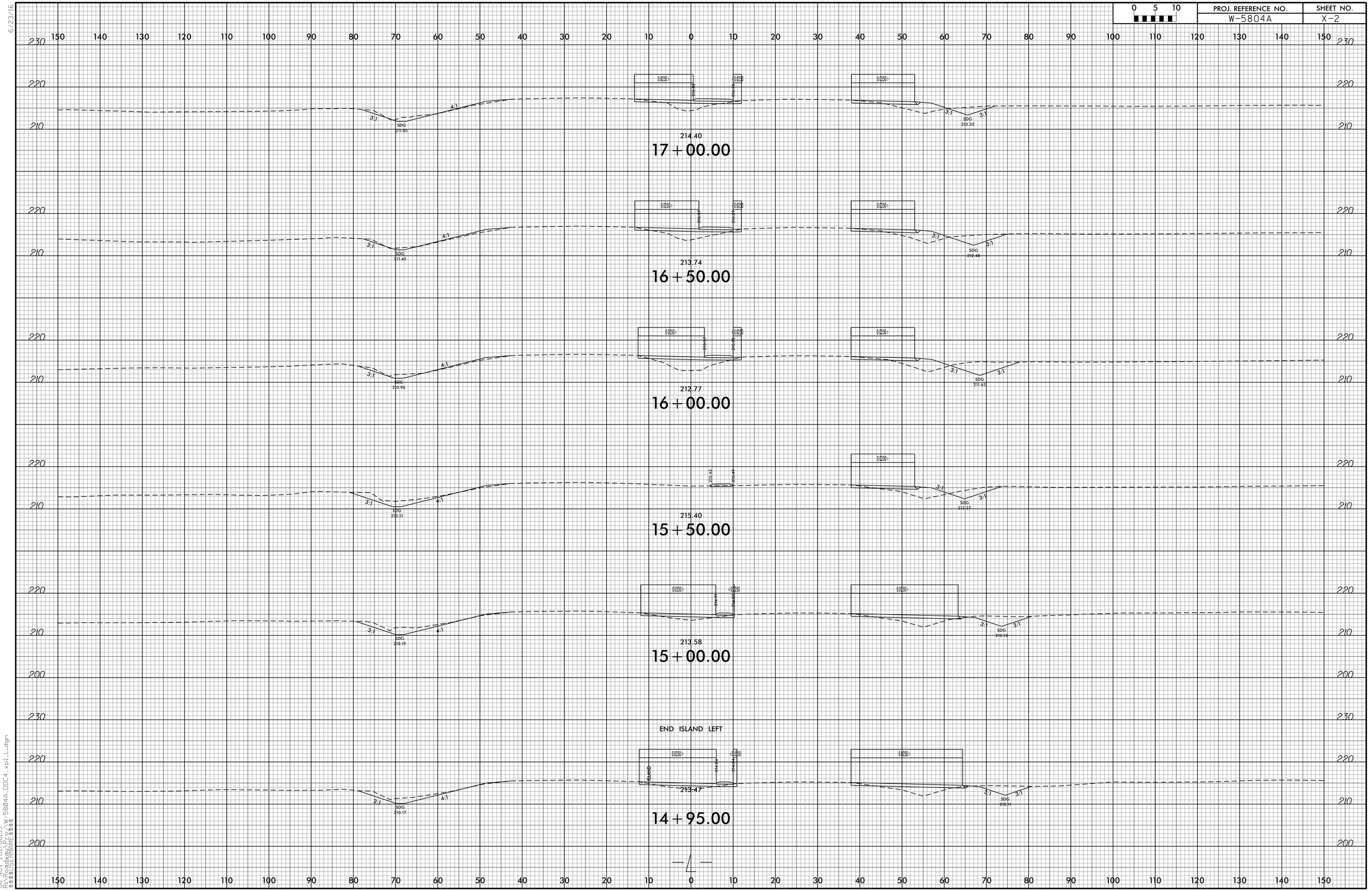
211.28
13+00.00

08-NOV-2021 08:55
R:\Projects\W-5804A_DDC4_xpLL.dgn
$$$$USERNAME$$$$

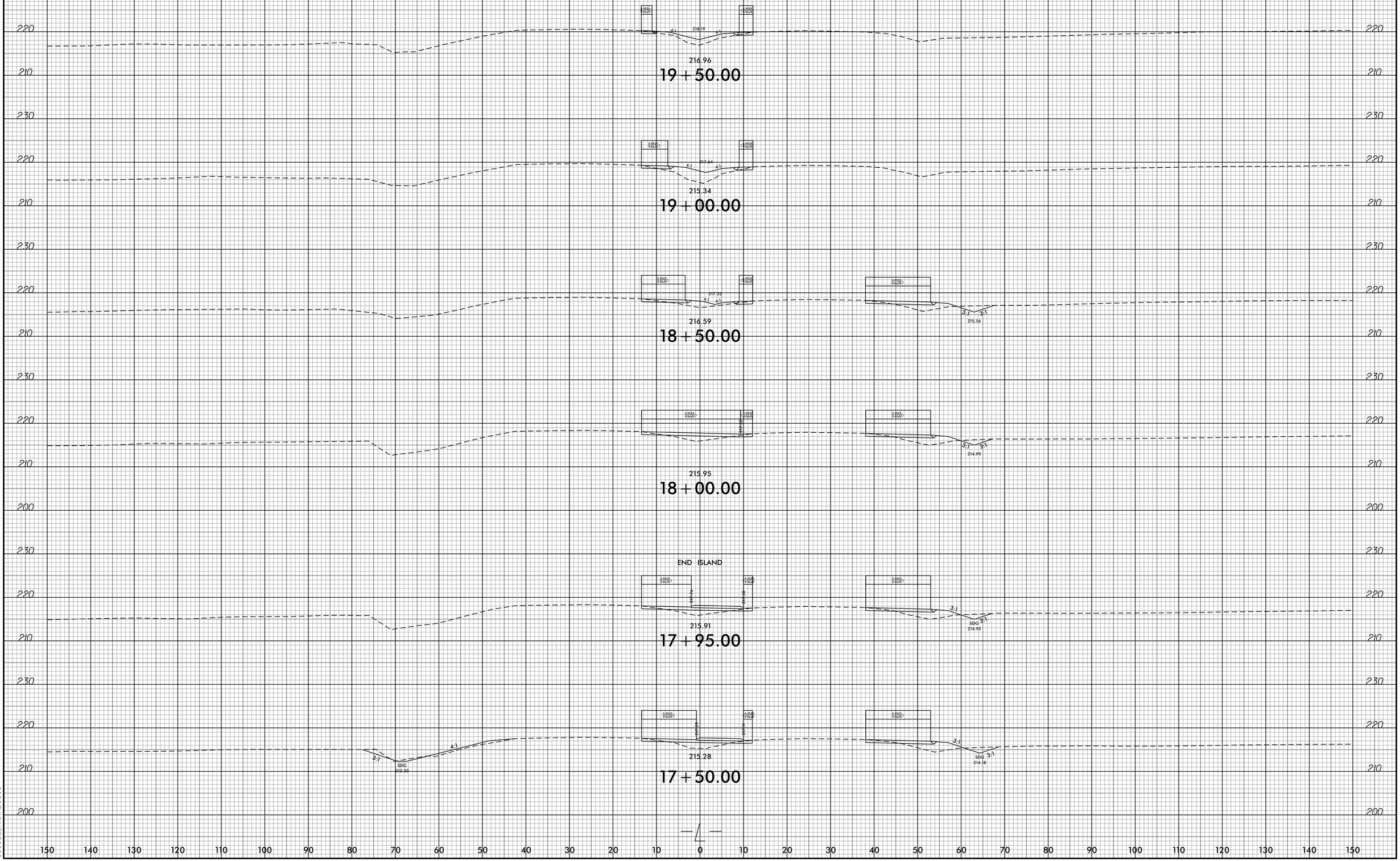
6/23/16

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	X-2

0 5 10



08-NOV-2021 08:55
R:\Projects\W-5804A_DDC4_xpl.dgn
$$$$USERNAME$$$$

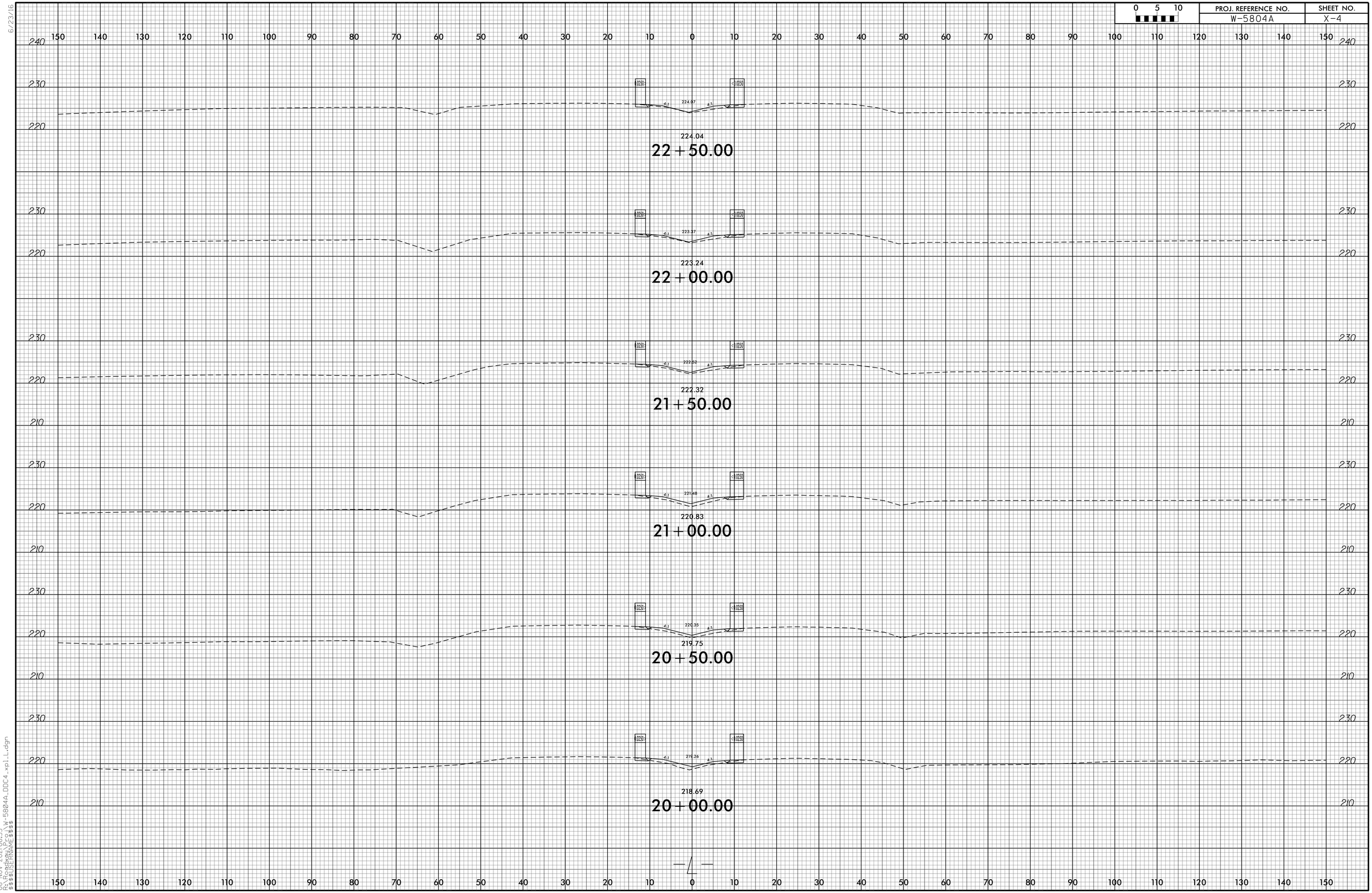


6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-4



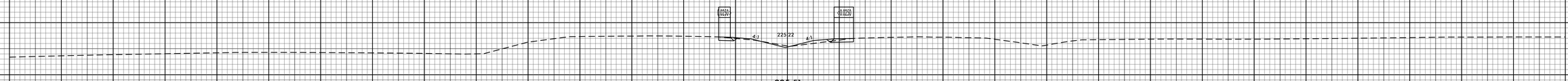
08-NOV-2021 08:55
C:\Projects\W-5804A_DDC4_xpl.dgn
$$$$USERNAME$$$$

6/23/16

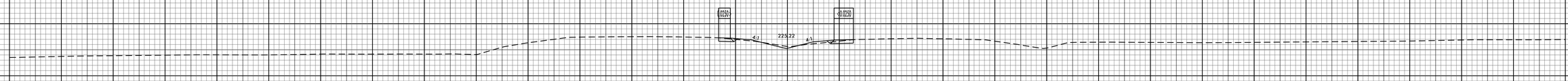
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-5

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

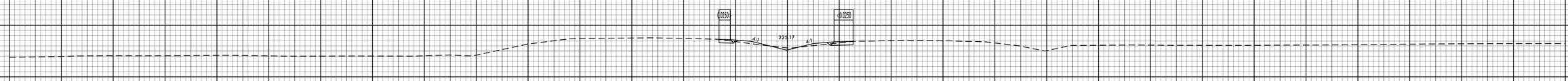
240
230
220



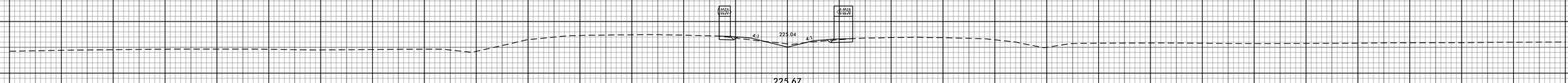
225.51
25+50.00



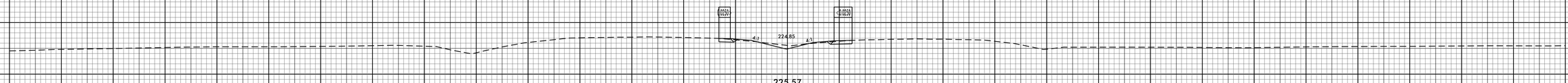
225.62
25+00.00



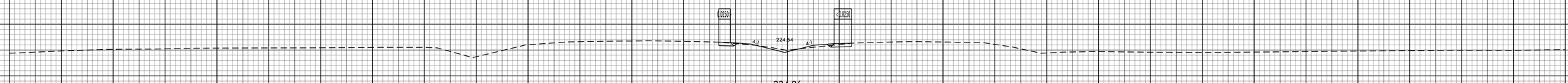
225.60
24+50.00



225.67
24+00.00



225.57
23+50.00



224.96
23+00.00

210

08-NOV-2021 08:55
R:\Projects\W-5804A_DDC4_xpLL.dgn
$$$$USERNAME$$$$

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-6

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

240 230 220

<0.0250 <0.0250

GRADE TO DRAIN
FROM ISLAND TO BOX 501

221.48

28+50.00

<0.0250 <0.0250 4:1 4:1 222.57

222.09

28+00.00

<0.0250 <0.0250 4:1 4:1 223.29

223.34

27+50.00

<0.0250 <0.0250 4:1 4:1 223.99

224.08

27+00.00

<0.0250 <0.0250 4:1 4:1 224.60

224.86

26+50.00

<0.0250 <0.0250 4:1 4:1 225.03

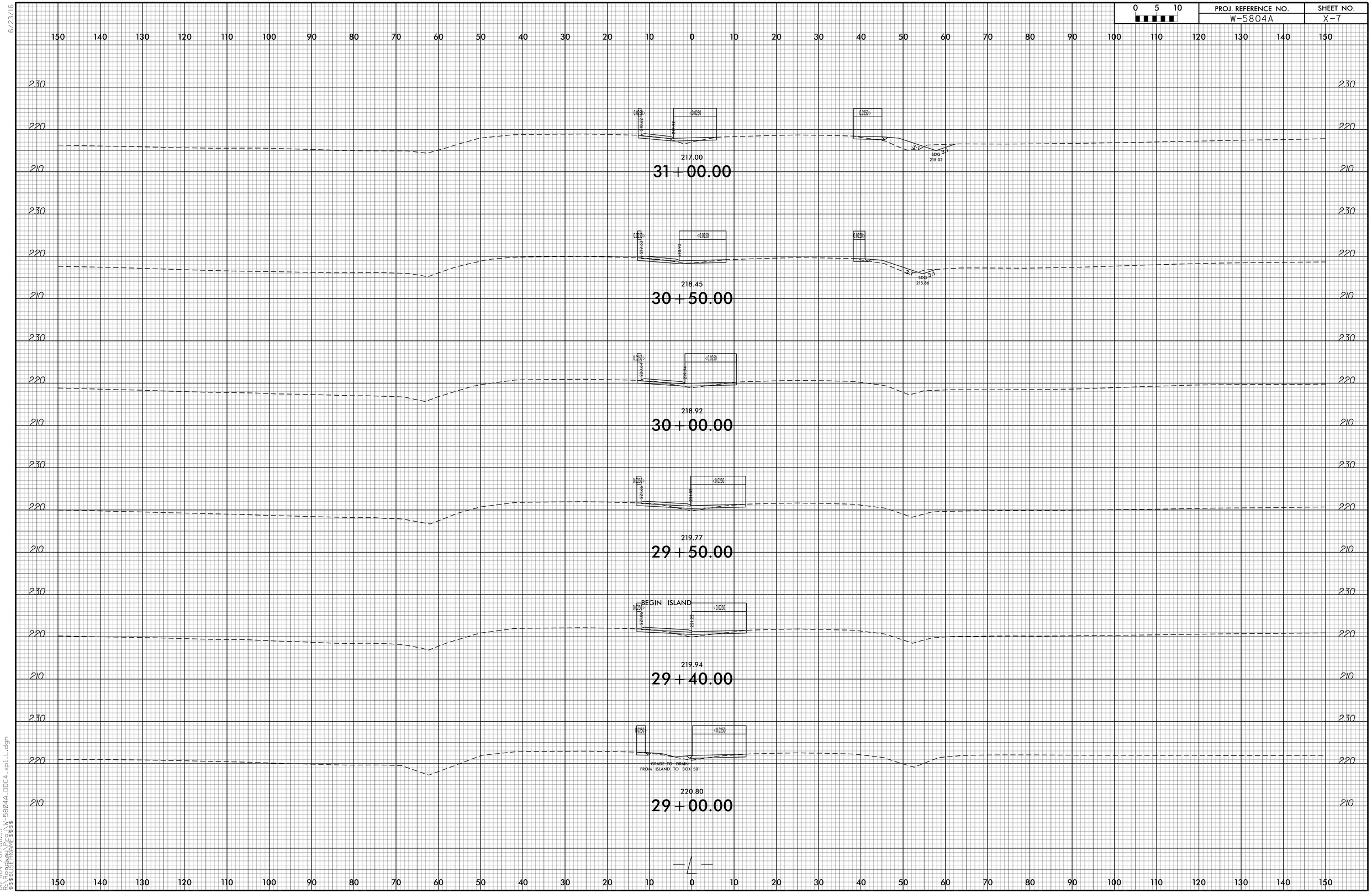
225.28

26+00.00

240 230 220 210

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

08-NOV-2021 08:55
R:\Projects\W-5804A_DDC4_xpLL.dgn
$$$$USERNAME$$$$

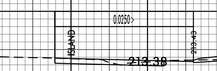


6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$

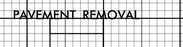
0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-8

END ISLAND LEFT

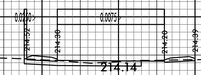


33 + 35.00

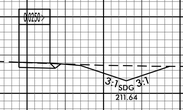
PAVEMENT REMOVAL



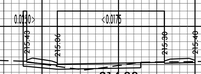
PAVEMENT REMOVAL



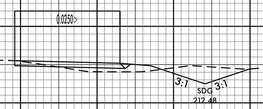
33 + 00.00



PAVEMENT REMOVAL



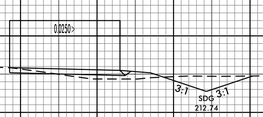
32 + 50.00

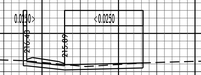


BEGIN ISLAND RIGHT

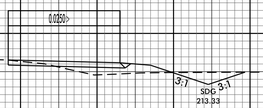


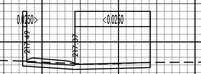
32 + 35.00





32 + 00.00

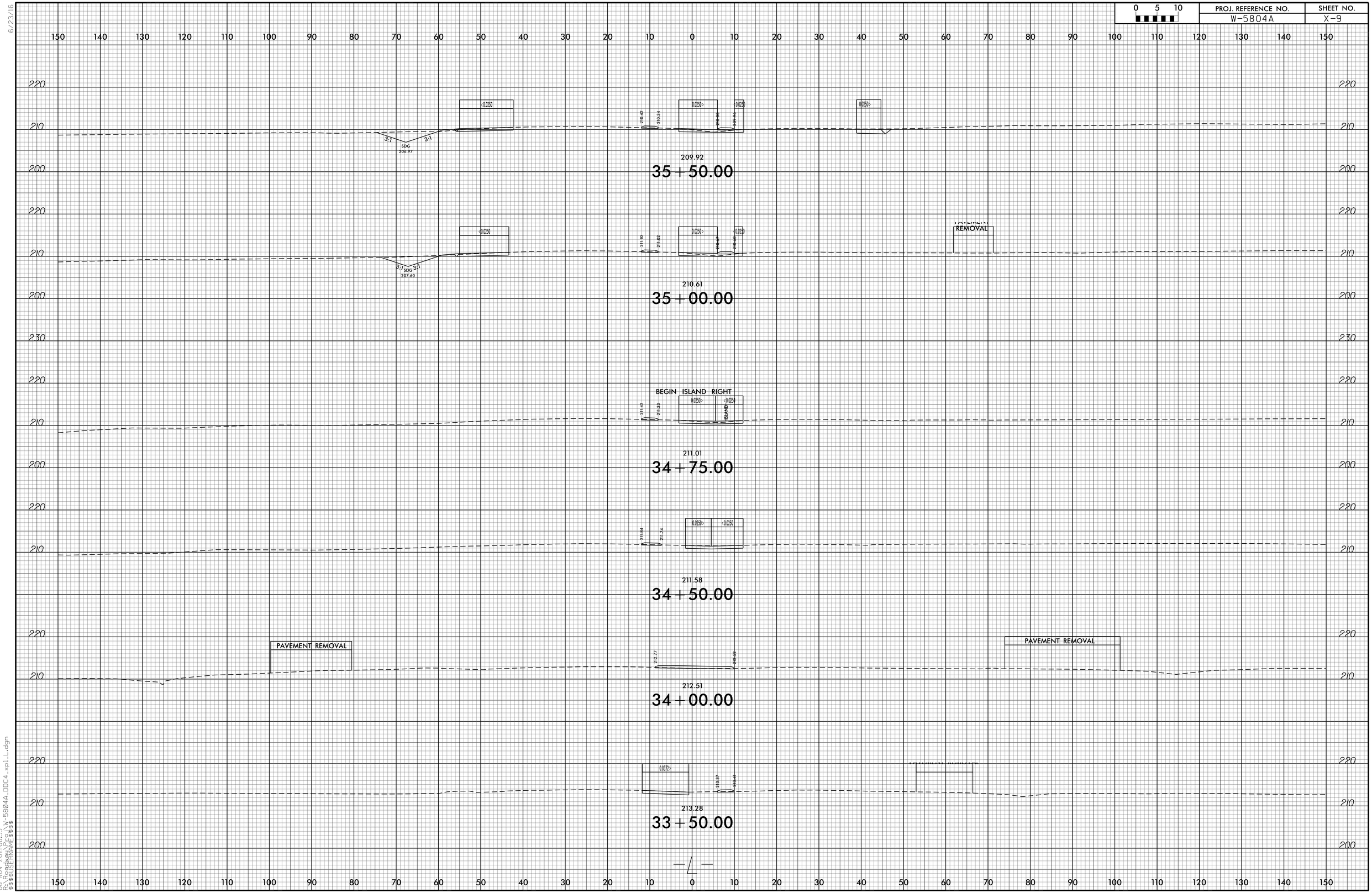




31 + 50.00

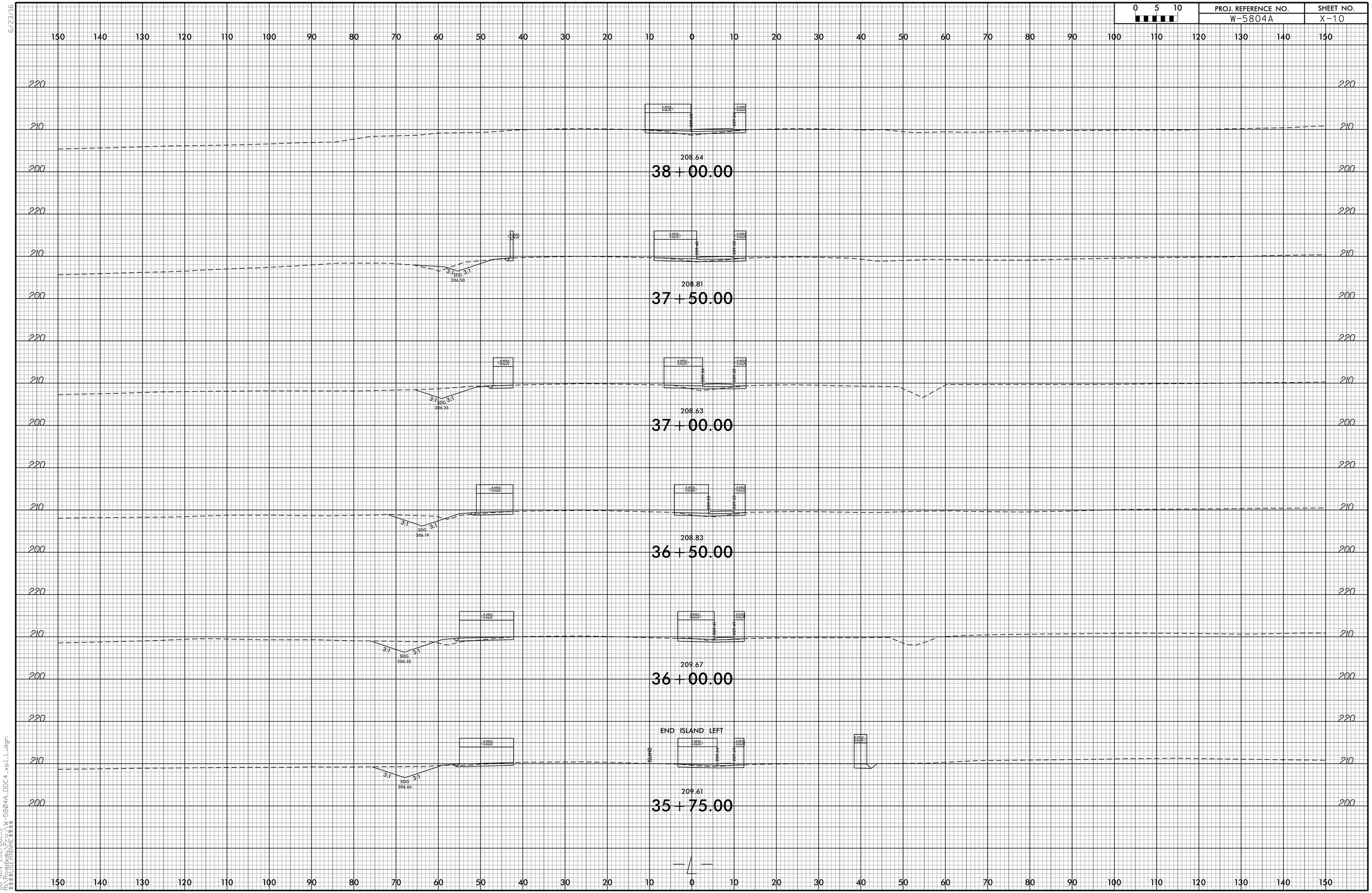


08-NOV-2021 08:55
C:\Projects\W-5804A_DDC4_xpl.dgn
$$$$USERNAME$$$$



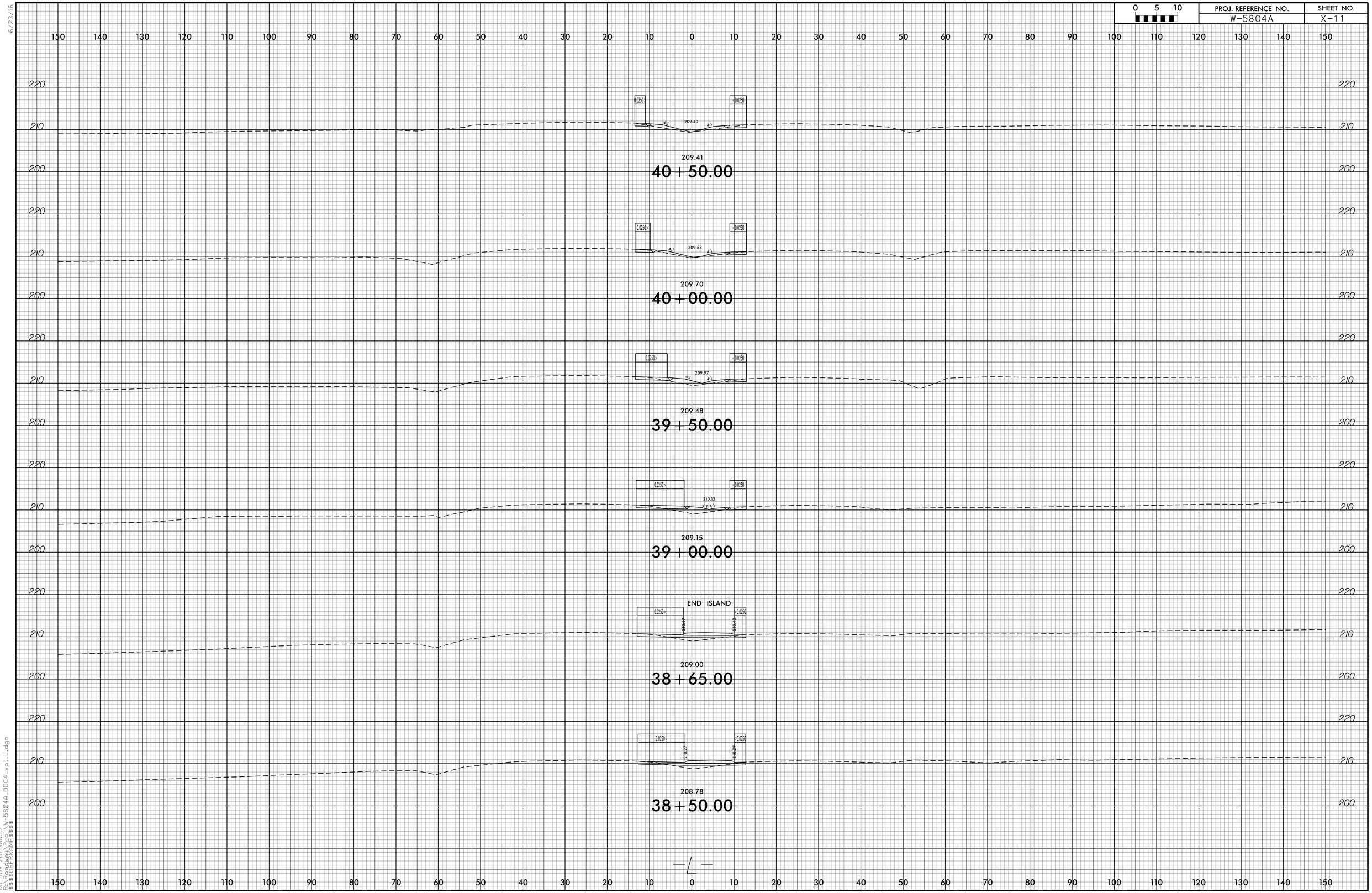
6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$



6/23/16

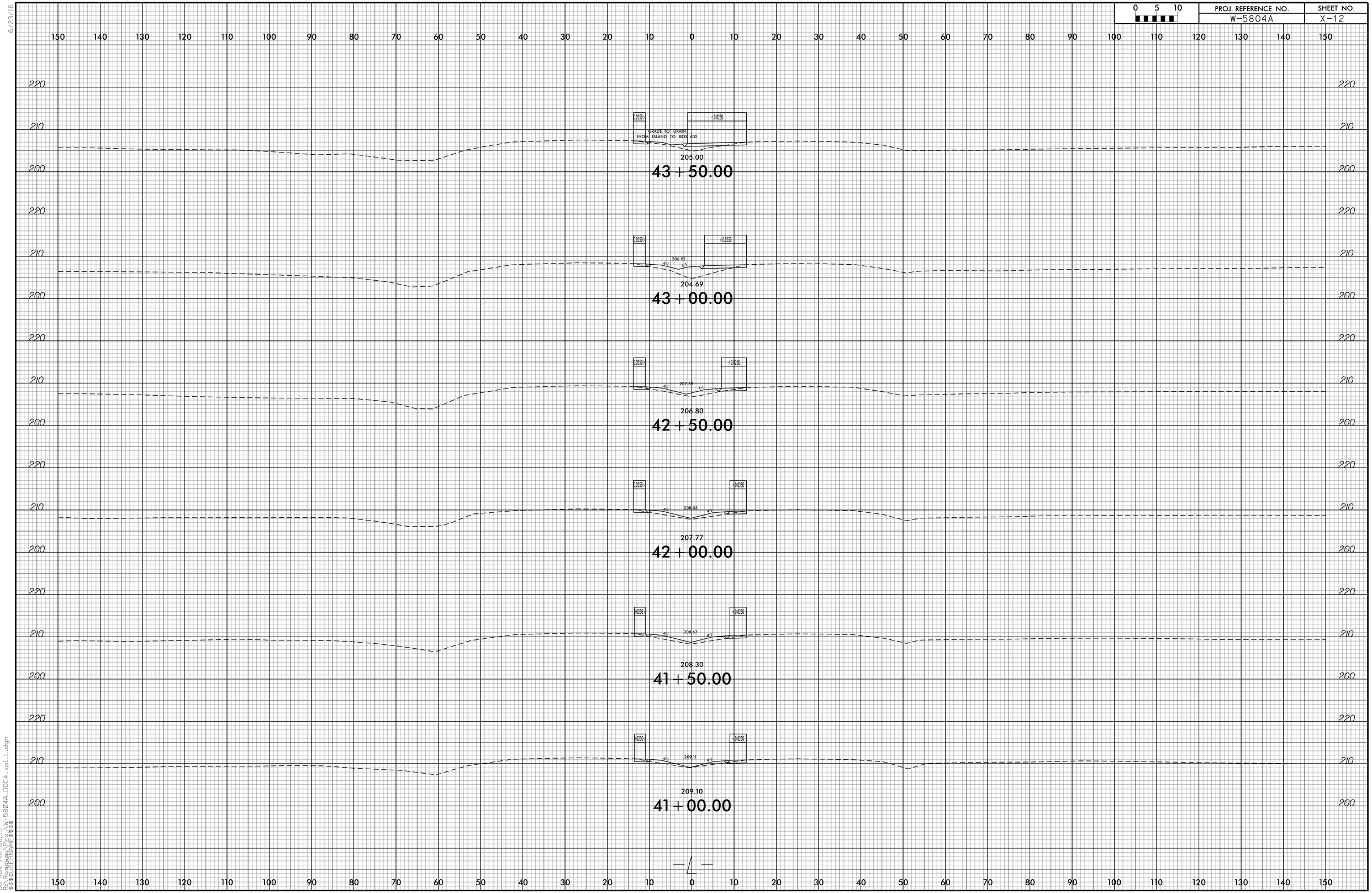
08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$



6/23/16

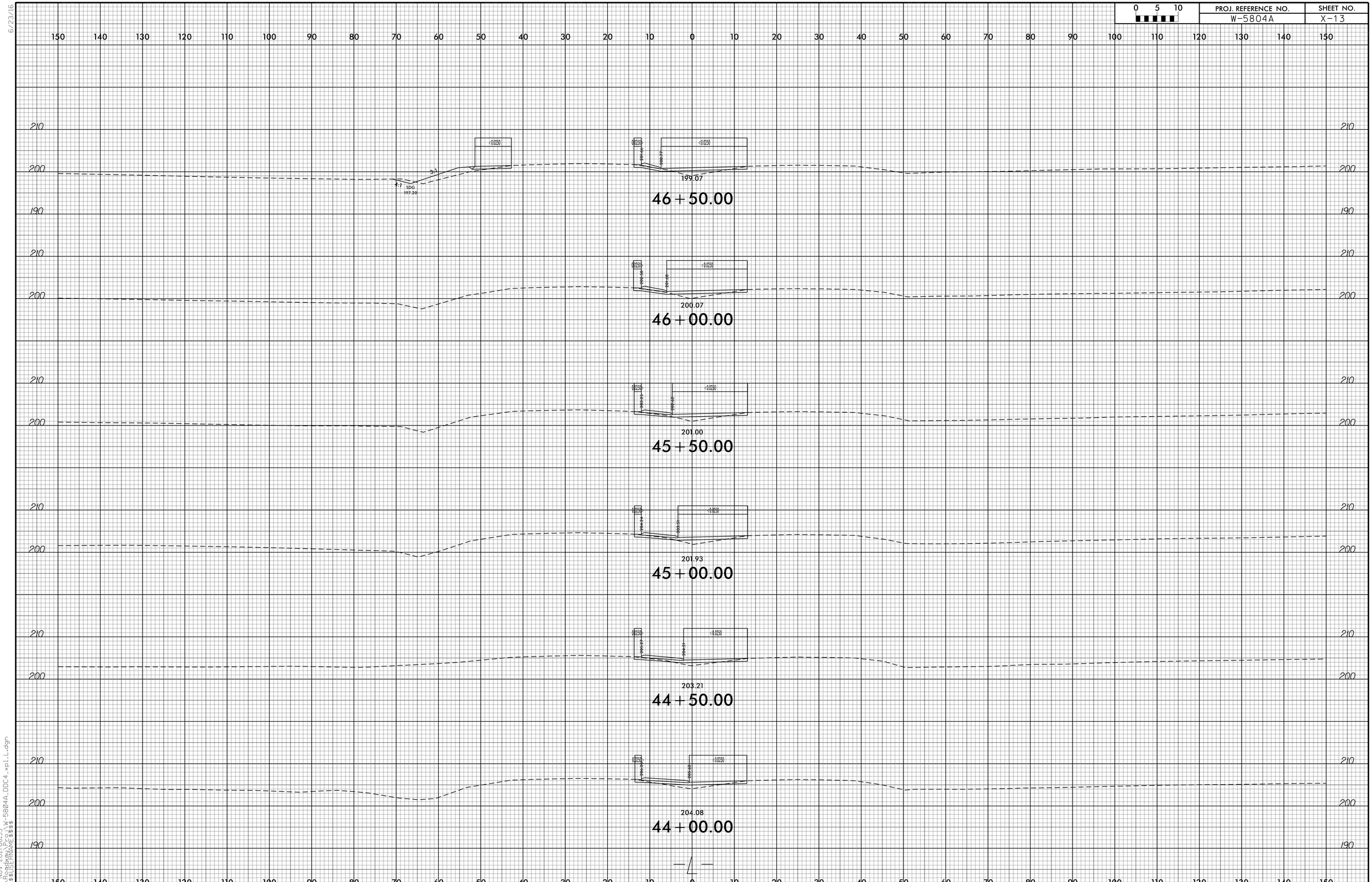
08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5804A	X-12



6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$



6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-14

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

200 190 210

5:1 5:1

195.10

49 + 50.00

SDG
194.50

195.89

49 + 00.00

END ISLAND

SDG
195.04

196.64

48 + 50.00

4:1 3:1

SDG
195.58

196.90

48 + 00.00

END ISLAND LEFT

4:1 3:1

SDG
195.85

197.18

47 + 75.00

4:1 3:1

SDG
196.12

197.37

47 + 50.00

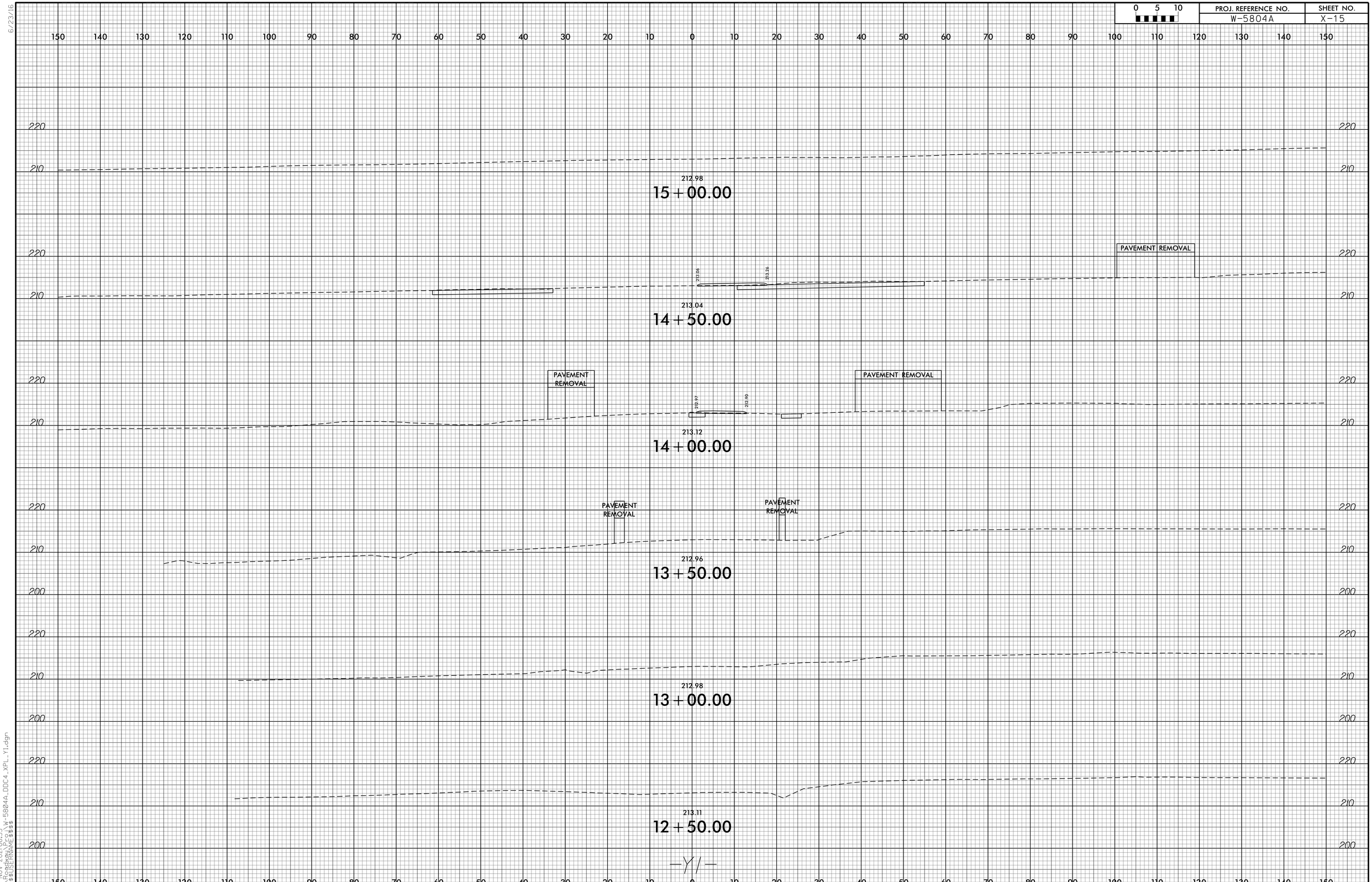
4:1 3:1

SDG
196.66

198.66

47 + 00.00

08-NOV-2021 08:55
R:\Projects\W-5804A_DDC4_xpl_L.dgn
$$$$USERNAME$$$$



6/23/16

08-NOV-2021 08:55
R:\Roadway\Proj\W-5804A_DDC4_XPL_Y1.dgn
$$$$USERNAME$$$$

6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5804A	X-16

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

220
210

210.91
13+50.00

210

211.26
13+00.00

210

211.52
12+50.00

210

211.66
12+00.00

210

211.99
11+50.00

220
210

PAVEMENT REMOVAL

PAVEMENT REMOVAL

212.21
11+00.00

210

212.00
10+50.00

210

211.67
10+00.00

200

-Y2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

08-NOV-2021 08:55
$$$$USERNAME$$$$
$$$$USERNAME$$$$
W-5804A_DDC4_XPL_Y2.dgn