

PROJECT: 50175.3.1



LOCATION: INTERSECTION OF STEELE CREEK RD. (NC 160) AND HAMILTON RD. (SR-1106)

10+30 -L-
BEGIN RESURFACING

STEEL CREEK RD (NC 160)

HAMILTON RD (SR-1106)

10+00 -Y-
BEGIN RESURFACING

22+13 -Y-
END RESURFACING

STEEL CREEK RD (NC 160)

21+70 -L-
END RESURFACING

NC GRID
NAD 83 NA 2011

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50175.3.1	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
50175.1.1		P.E.	
50175.2.1		R/W	
50175.3.1		CONST.	

ADT =
ADT =
DHV = %
D = %
T = %
V = MPH

LENGTH OF ROADWAY PROJECT : 50175.31 = 0.45 MILES
 TOTAL LENGTH OF STATE PROJECT : 50175.31 = 0.45 MILES

RIGHT OF WAY DATE:

LETTING DATE:

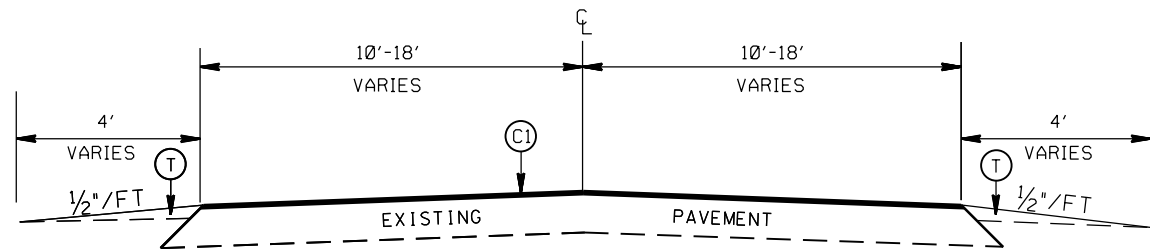
DONALD HARWARD
PROJECT DESIGN ENGINEER



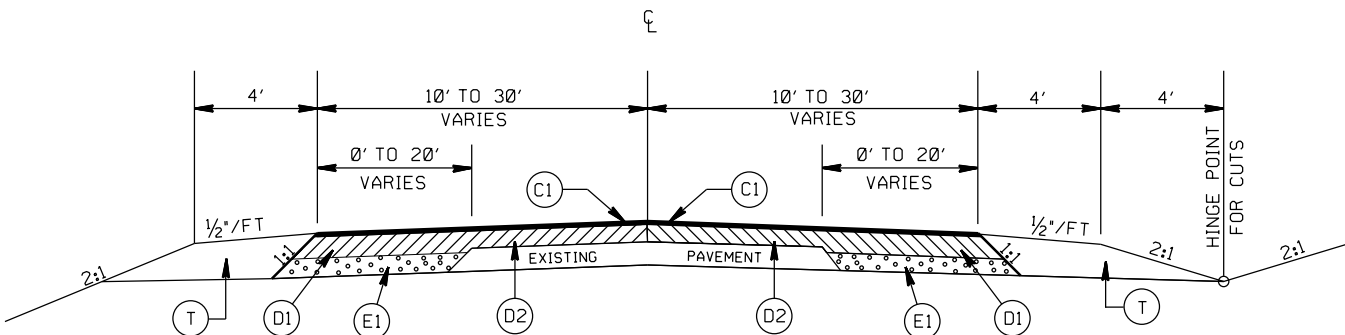
A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "SEAL" at the bottom. The inner ring contains the text "PROFESSIONAL" at the top and "ENGINEER" at the bottom. In the center, the name "MICHAEL EPPERSON" is written in a large, bold, sans-serif font, with the license number "034357" printed below it. The seal is stamped in black ink on a white background.

DocuSigned by

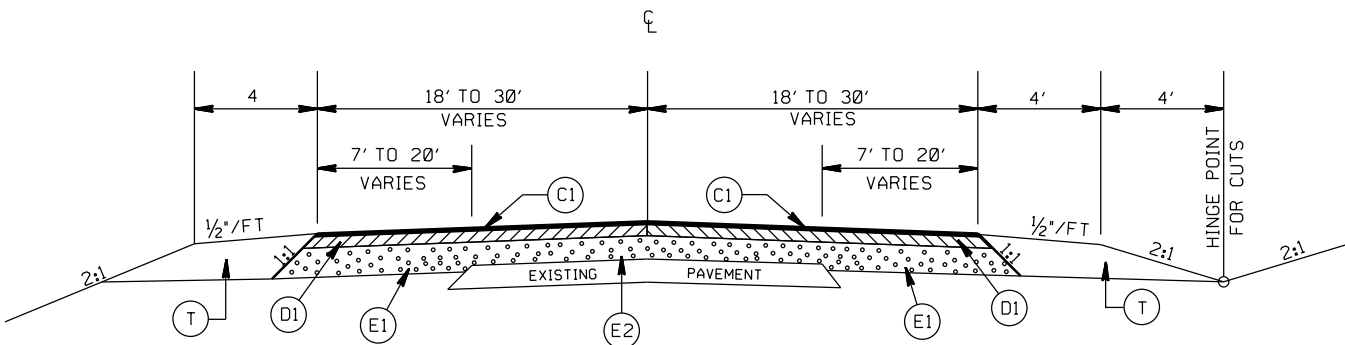
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SIGNATURE



TYPICAL SECTION NO. 1
STA. 10+30 TO 10+55 -L-
STA. 21+45 TO 21+70 -L-
STA. 21+88 TO 22+13 -Y-



TYPICAL SECTION NO. 2
STA. 10+55 TO 14+50 -L-
STA. 18+00 TO 21+45 -L-
STA. 19+37 TO 21+88 -Y-



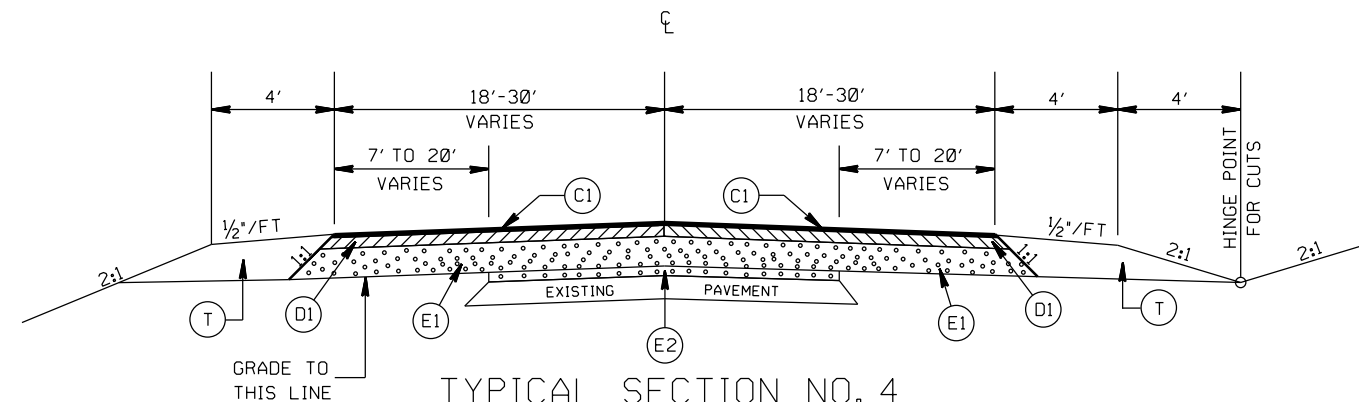
TYPICAL SECTION NO. 3
STA. 14+50 TO 16+00 -L-
STA. 17+00 TO 18+00 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. VARIABLE DEPTH ASPHALT CONC. INTERMEDIATE COURSE.
E1	PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
T	EARTH MATERIAL

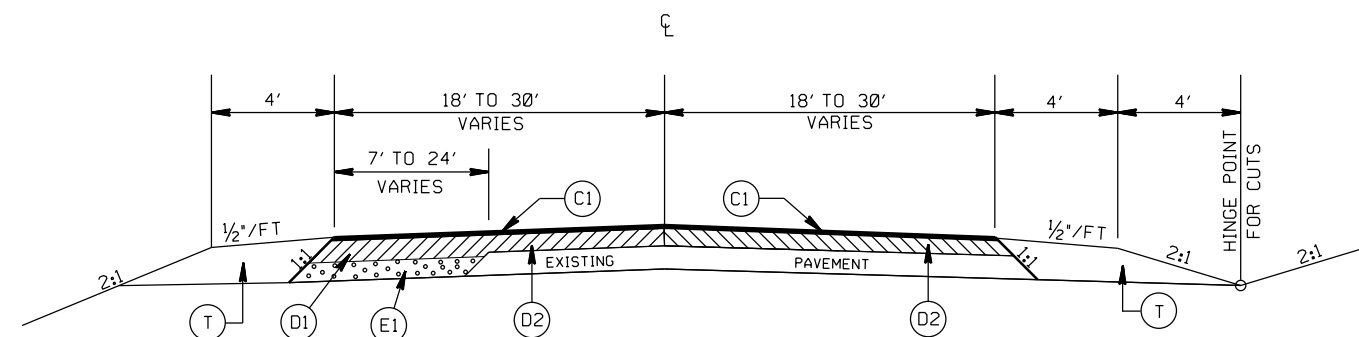
INSTALLING RIGHT AND LEFT TURN LANES
ON NC 160 AND
HAMILTON RD.(SR-1106)

SCALE	N/A		REVISIONS	
DATE	7-2018			
DWG. BY	JDH			
DESIGN BY	JDH			
APPROVED	JDH			



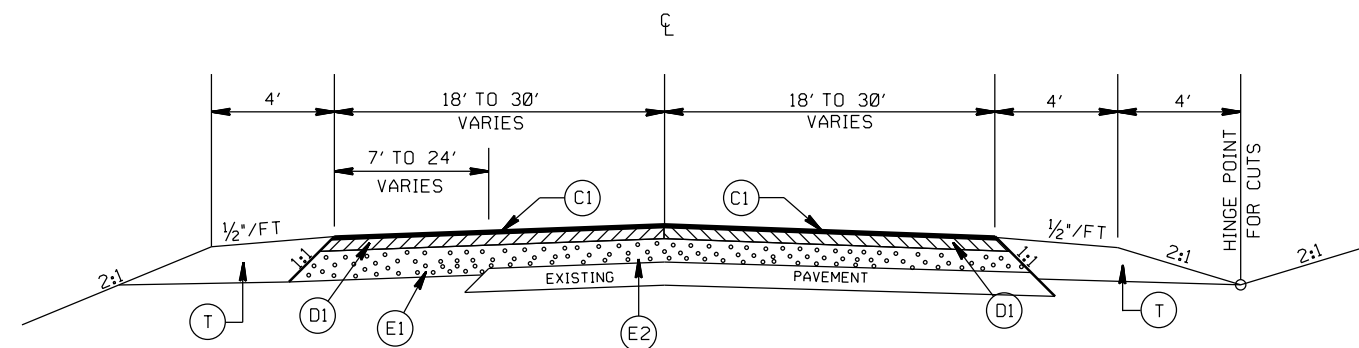
TYPICAL SECTION NO. 4

STA. 16+00 TO 17+00 -L-
STA. 15+00 TO 16+50 -Y-



TYPICAL SECTION NO. 5

STA. 10+00 TO 11+00 -Y-
STA. 17+50 TO 19+37 -Y-



TYPICAL SECTION NO. 6

STA. 11+00 TO 12+00 -Y-
STA. 13+50 TO 15+00 -Y-
STA. 16+50 TO 17+50 -Y-

PROJECT NO.	SHEET NO.
50175.3J	2A
F.A. PROJECT NO.	

ROADWAY DESIGN
ENGINEER

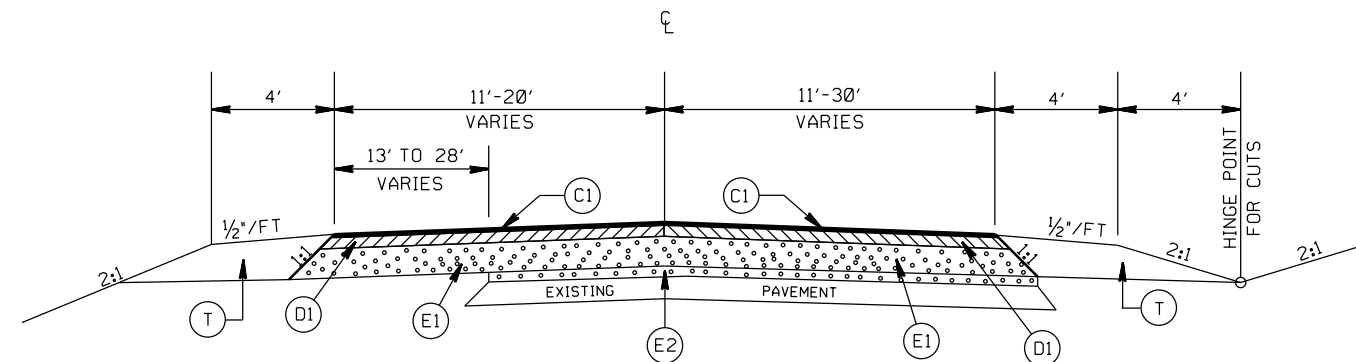
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PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
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E1	PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
T	EARTH MATERIAL

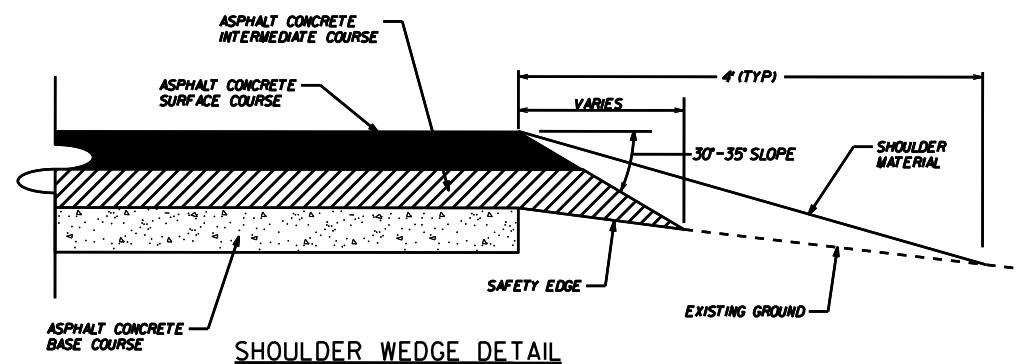
INSTALLING RIGHT AND LEFT TURN LANES
ON NC 160 AND
HAMILTON RD. (SR-1106)

SCALE	N/A		REVISIONS
DATE	7-2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

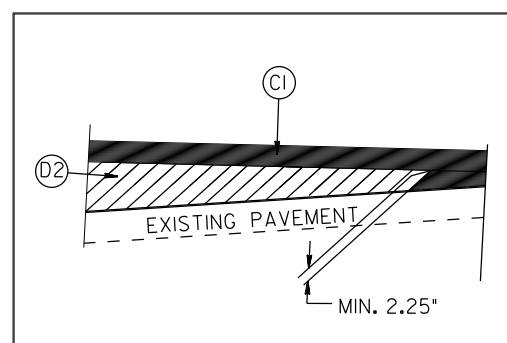


TYPICAL SECTION NO. 7

STA. 12+00 TO 13+50 -Y-



SHOULDER WEDGE DETAIL



WEDGING DETAIL

PROJECT NO.	SHEET NO.
50175.3J	28
F.A. PROJECT NO.	

ROADWAY DESIGN ENGINEER

SEAL 034357

Michael E. Epps

DocuSign by: *[Signature]*

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PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
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E2	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
T	EARTH MATERIAL

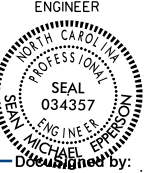
INSTALLING RIGHT AND LEFT TURN LANES
ON NC 160 AND
HAMILTON RD.(SR-1106)

SCALE	N/A
DATE	7-2018
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH



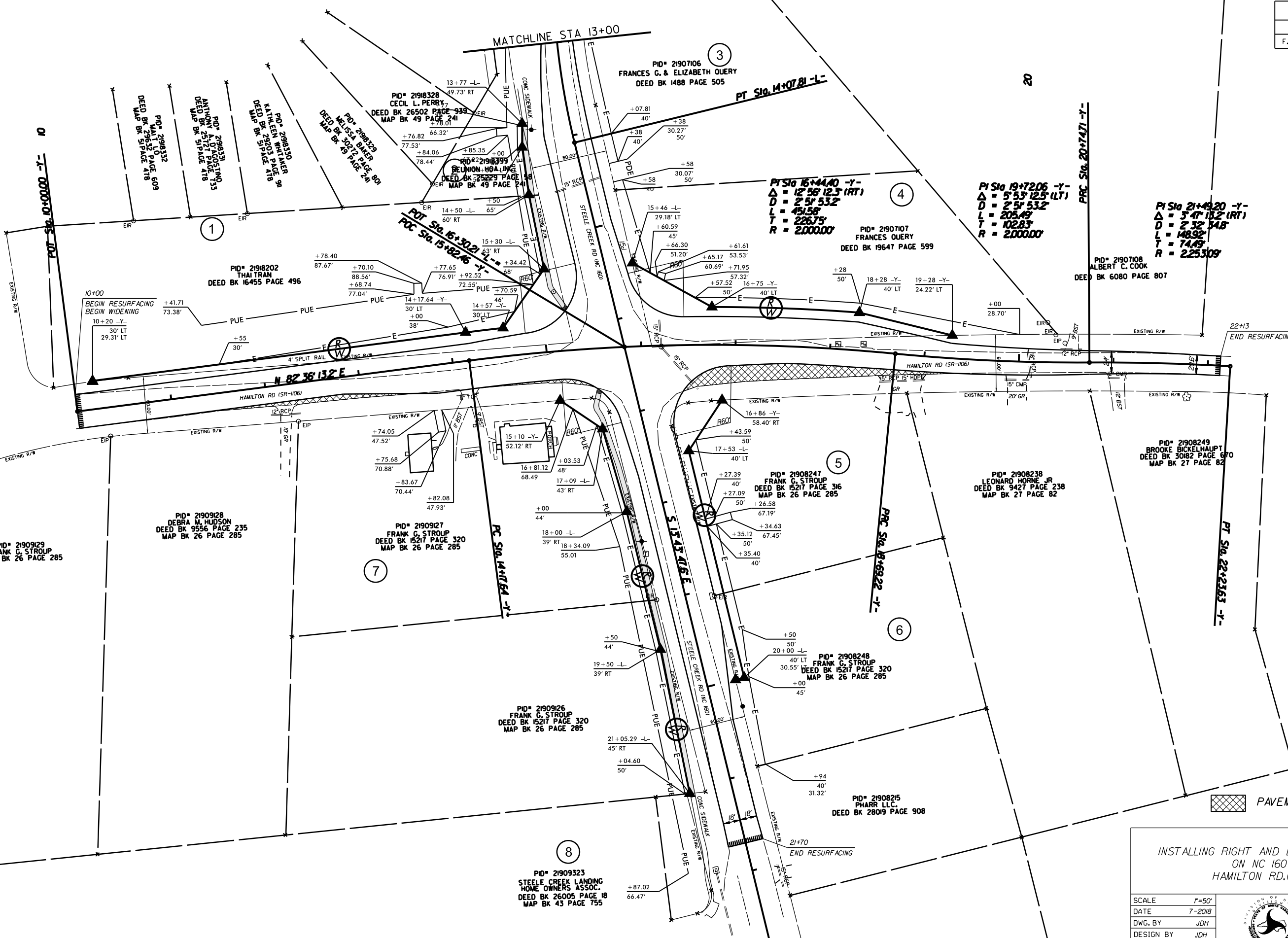
REVISIONS	

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Designed by:

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NC GRID
NAD 83 NA 2011

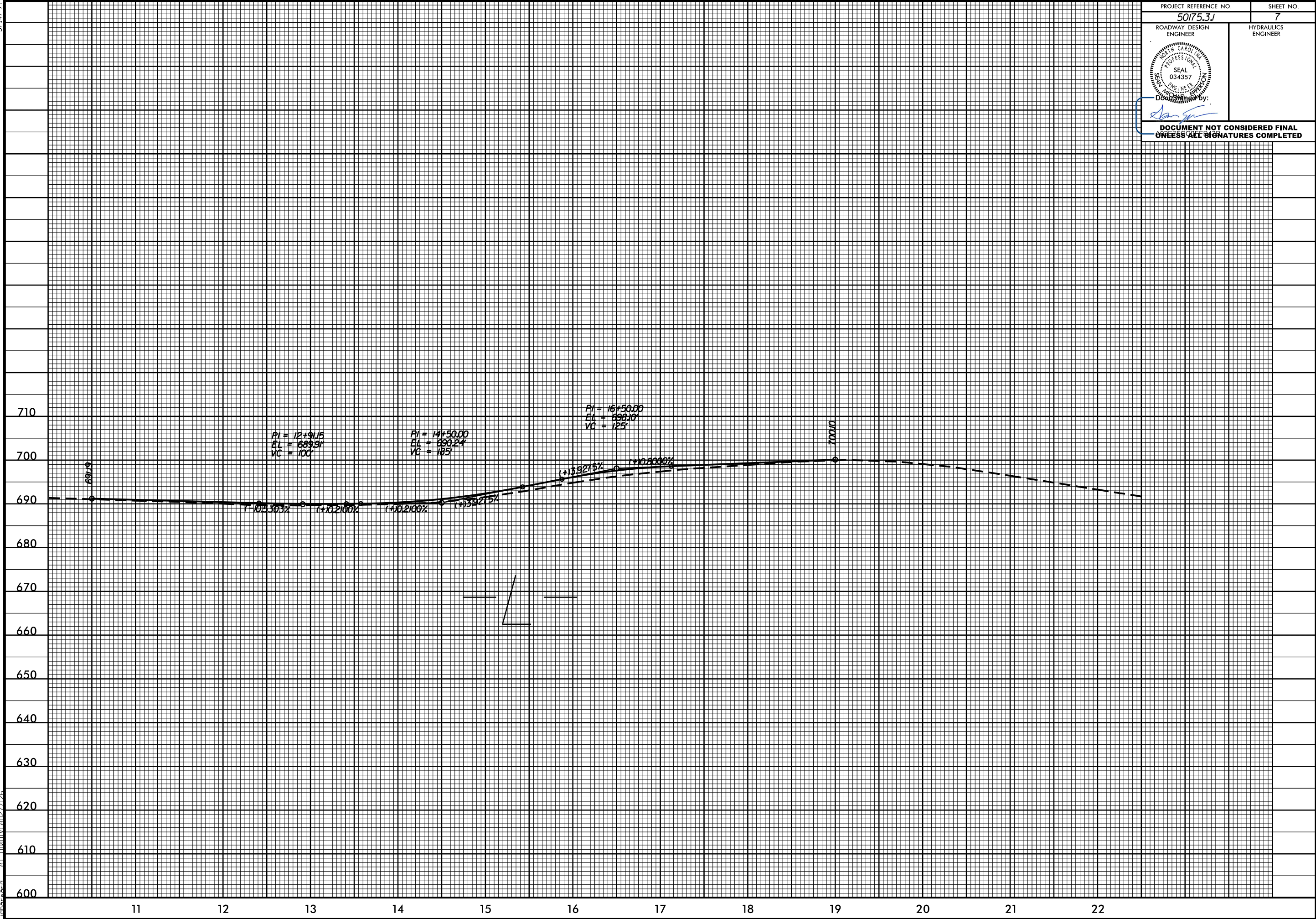
PAVEMENT REMOVAL

INSTALLING RIGHT AND LEFT TURN LANES
ON NC 160 AND
HAMILTON RD.(SR-1106)

SCALE	1"=50'	REVISIONS
DATE	7-2018	
DWG. BY	JDH	
DESIGN BY	JDH	
APPROVED	JDH	

5/14/99

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Reviewed by: 10/11/17/2/26

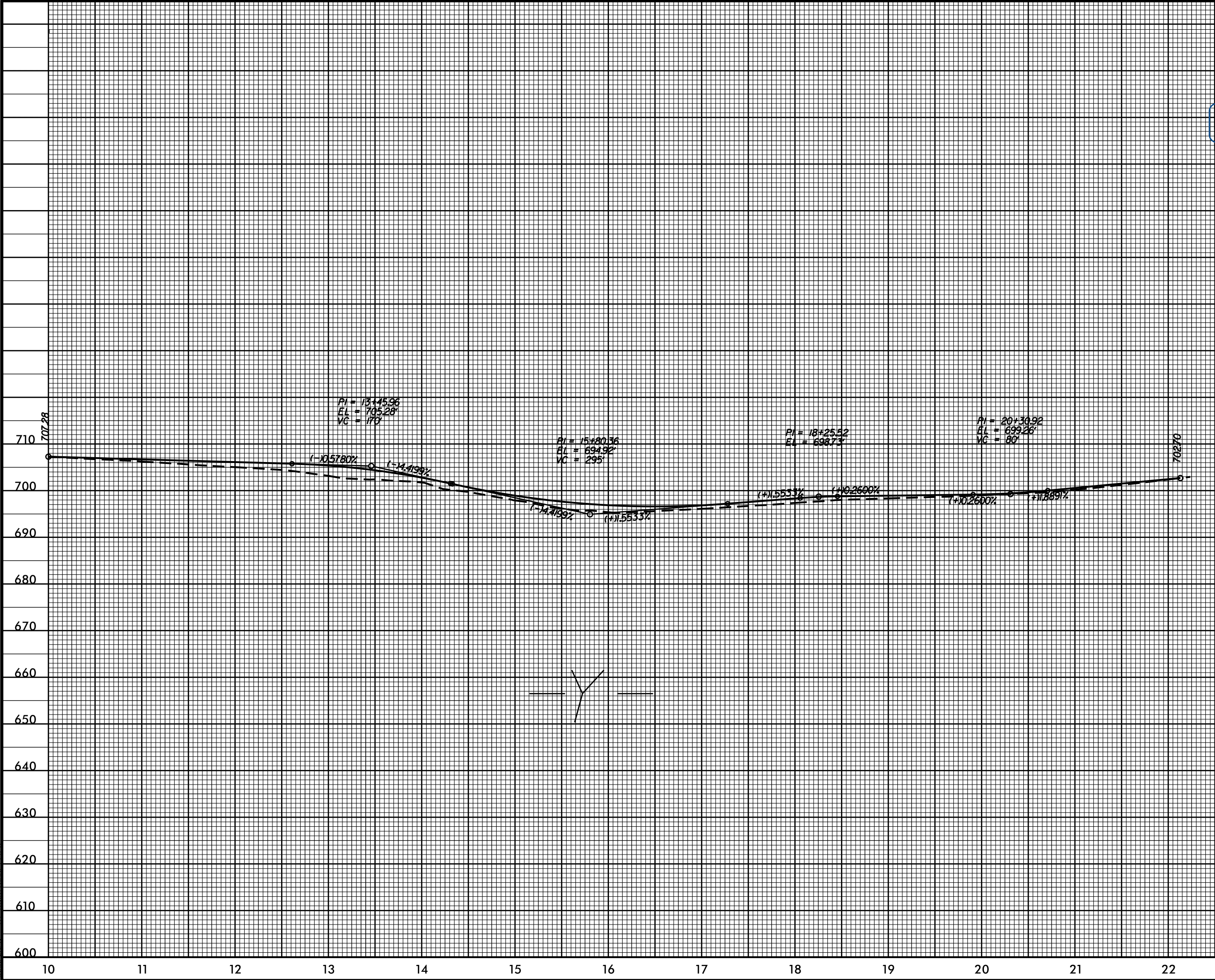


PROJECT REFERENCE NO. 50175.3J		SHEET NO. 7
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		
Documented by: 		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

5/14/99

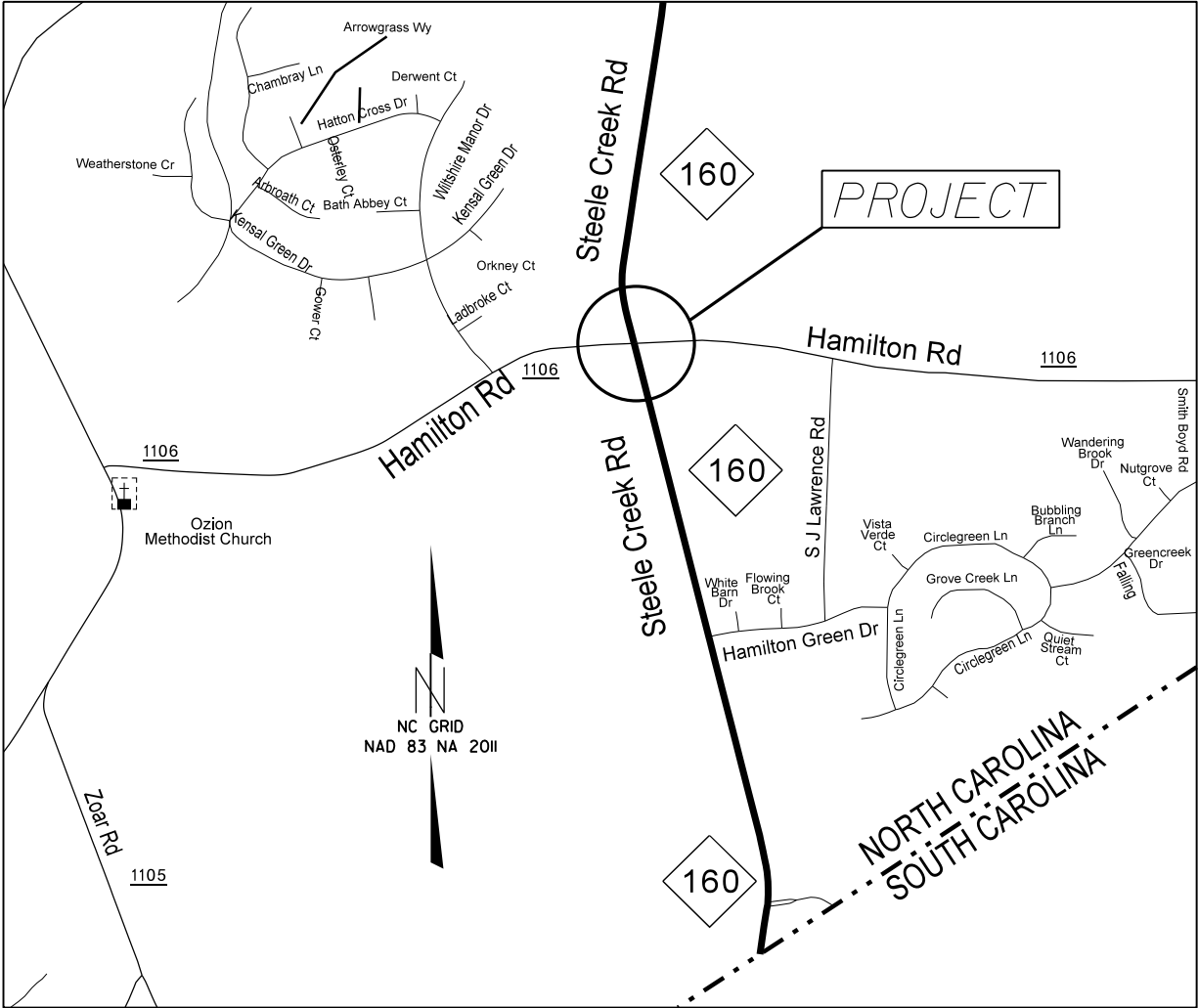
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checked by: 010111/12/2126

PROJECT REFERENCE NO. 50175.3J		SHEET NO. 8
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		
Designed by: 		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



TIP PROJECT: U-5762

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



VICINITY MAP NOT TO SCALE

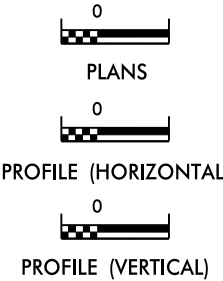
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5762	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

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

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

GRAPHIC SCALE



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 AUGUST 3, 2011
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

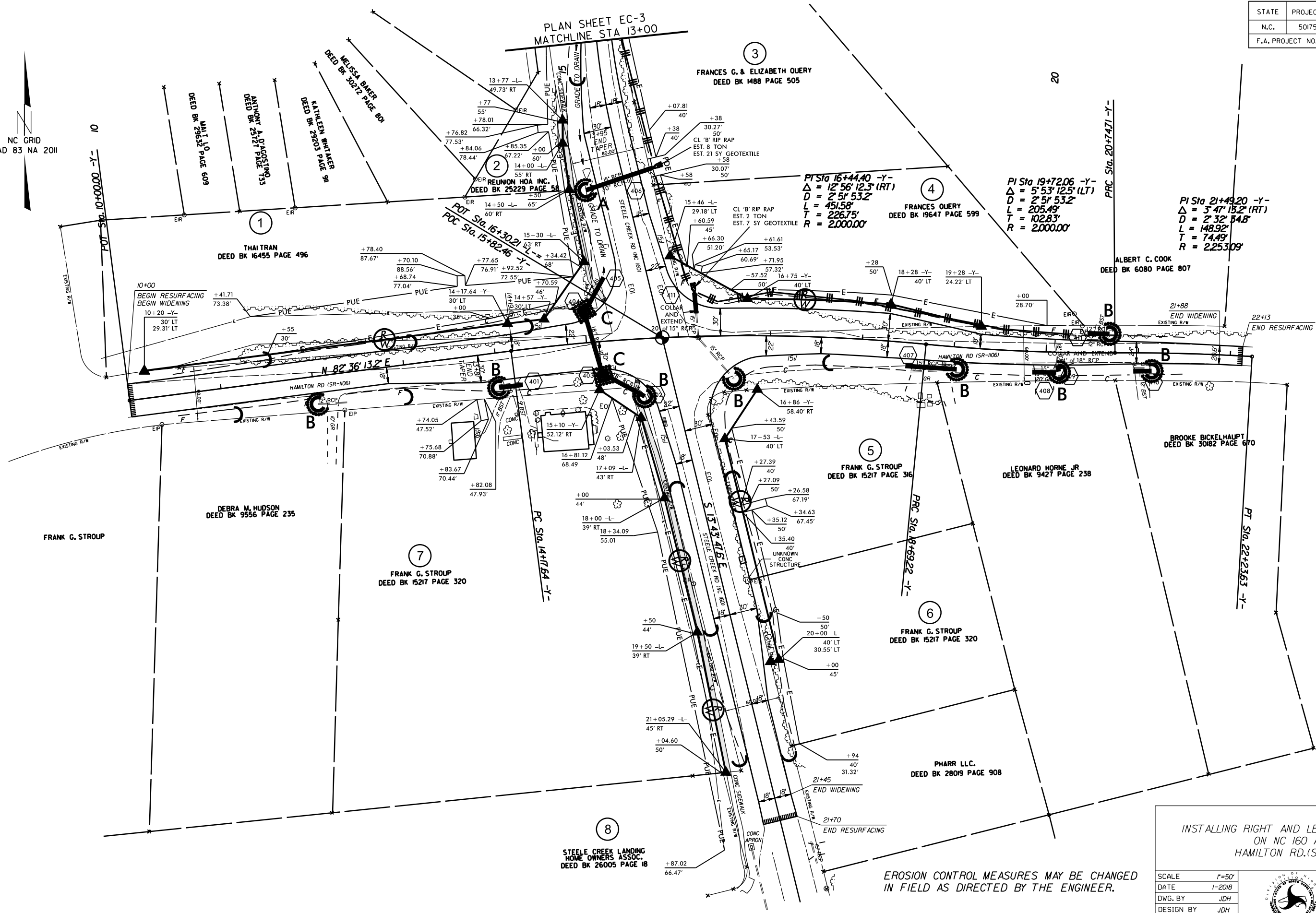
Prepared in the Office of:
DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
2018 STANDARD SPECIFICATIONS

Designed by:
DONALD HARWARD 3028
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings	
The following roadway <u>english</u> standards as appear in "Roadway Standard Drawings"-- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.	
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type 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 Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50175.3.1	EC-2	
F.A. PROJECT NO.			

NC GRID
NAD 83 NA 2011



EROSION CONTROL MEASURES MAY BE CHANGED
IN FIELD AS DIRECTED BY THE ENGINEER.

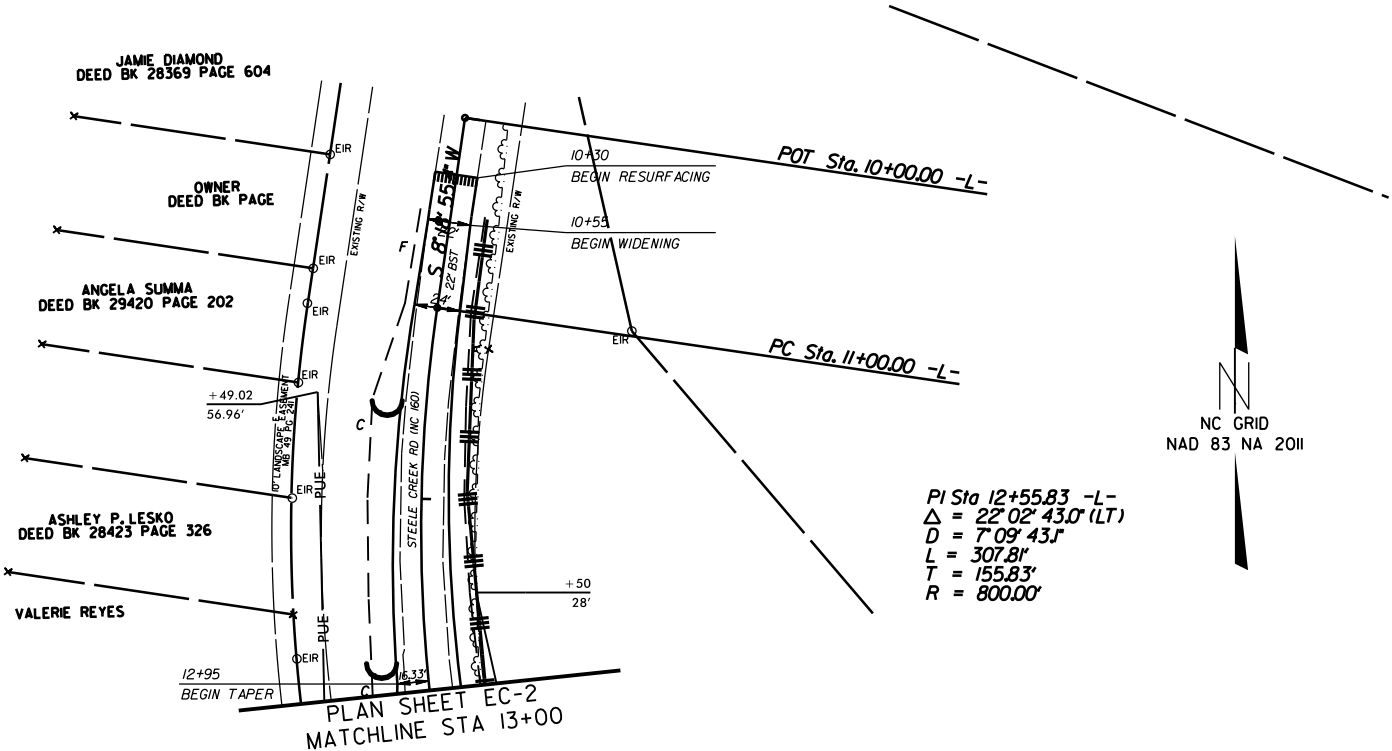
INSTALLING RIGHT AND LEFT TURN LANES
ON NC 160 AND
HAMILTON RD. (SR-1106)

SCALE	DATE	DWG. BY	DESIGN BY	APPROVED
1"=50'	1-2018	JDH	JDH	JDH

REVISIONS	

NC DEPARTMENT OF TRANSPORTATION

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	50175.3.1	EC-3	
F.A. PROJECT NO.			



EROSION CONTROL MEASURES MAY BE CHANGED
IN FIELD AS DIRECTED BY THE ENGINEER.

INSTALLING RIGHT AND LEFT TURN LANES ON NC 160 AND HAMILTON RD.(SR-1106)			
SCALE	1"=50'		REVISIONS
DATE	1/2018		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	JDH		

PROJECT NO.
50175.34

SHEET NO.
EWE-1

F.A. PROJECT NO.

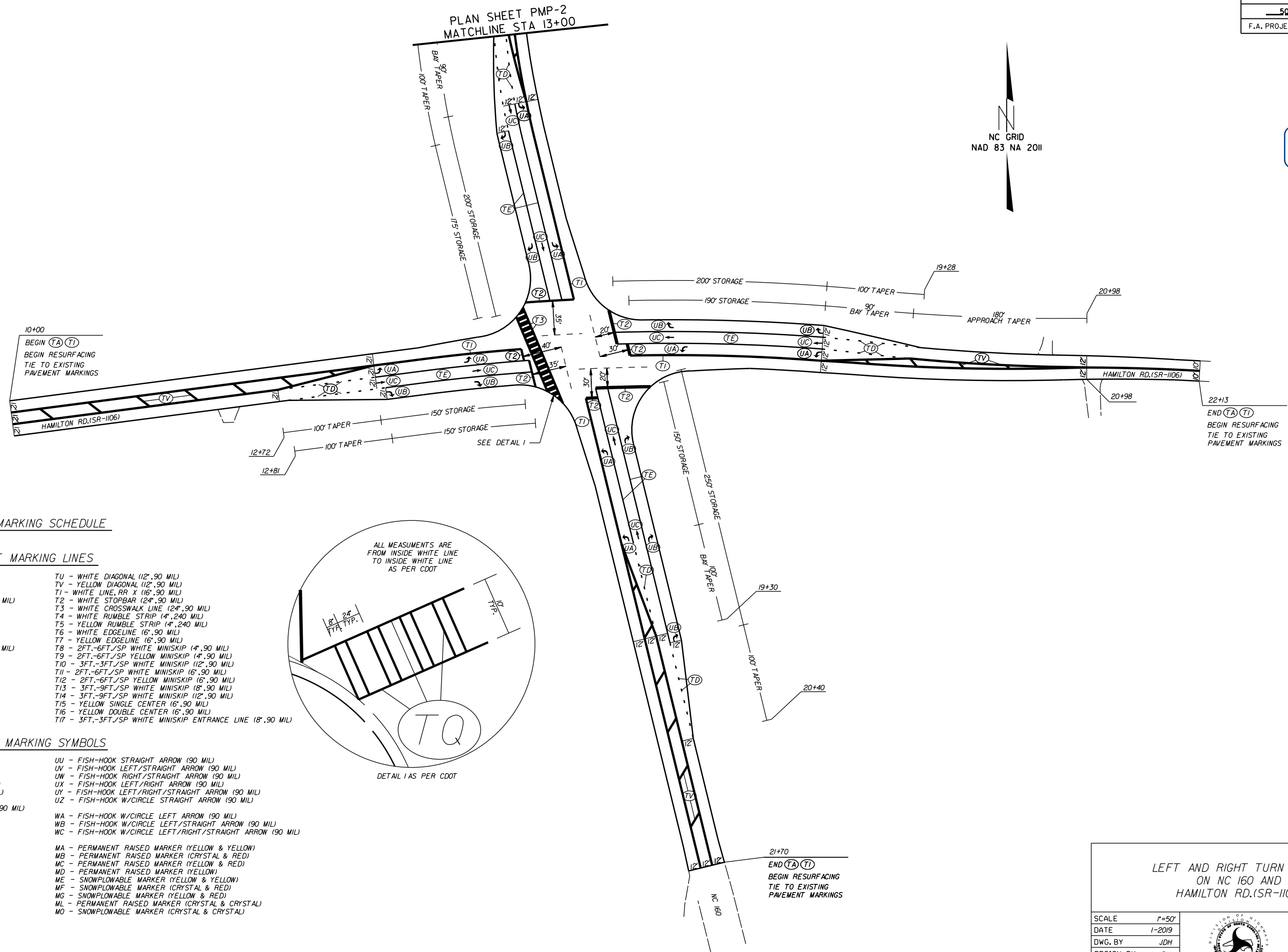
ROADWAY DESIGN
ENGINEER

SEAL
034357

ENGINEER
MICHAEL EPPS

DocuSign by:


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PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- TA - WHITE EDGELINE (4',90 MIL)

TB - YELLOW EDGELINE (4',90 MIL)

TC - 10FT. WHITE SKIP (4',90 MIL)

TD - 3FT.-9FT./SP WHITE MINISKIP (4',90 MIL)

TE - WHITE SOLID LANE LINE (4',90 MIL)

TF - 10FT. YELLOW SKIP (4',90 MIL)

TH - YELLOW SINGLE CENTER (4',90 MIL)

TI - YELLOW DOUBLE CENTER (4',90 MIL)

TJ - 10FT. WHITE SKIP (6',90 MIL)

TK - 3FT.-9FT./SP WHITE MINISKIP (6',90 MIL)

TL - WHITE SOLID LANE LINE (6',90 MIL)

TM - 10FT. YELLOW SKIP (6',90 MIL)

TN - WHITE GORELINE (8',90 MIL)

TO - WHITE DIAGONAL (8',90 MIL)

TP - YELLOW DIAGONAL (8',90 MIL)

TQ - WHITE CROSSWALK LINE (8',90 MIL)

TR - WHITE SOLID LANE LINE (8',90 MIL)

TS - WHITE GORELINE (12',90 MIL)

TT - WHITE SOLID LANE LINE (12',90 MIL)
- TU - WHITE DIAGONAL (12',90 MIL)

TV - YELLOW DIAGONAL (12',90 MIL)

TI - WHITE LINE, RR X (16',90 MIL)

T2 - WHITE STOPBAR (24',90 MIL)

T3 - WHITE CROSSWALK LINE (24',90 MIL)

T4 - WHITE RUMBLE STRIP (4',240 MIL)

T5 - YELLOW RUMBLE STRIP (4',240 MIL)

T6 - WHITE EDGELINE (6',90 MIL)

T7 - YELLOW EDGELINE (6',90 MIL)

T8 - 2FT.-6FT./SP WHITE MINISKIP (4',90 MIL)

T9 - 2FT.-6FT./SP YELLOW MINISKIP (4',90 MIL)

T10 - 3FT.-3FT./SP WHITE MINISKIP (12',90 MIL)

T11 - 2FT.-6FT./SP WHITE MINISKIP (6',90 MIL)

T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',90 MIL)

T13 - 3FT.-9FT./SP WHITE MINISKIP (8',90 MIL)

T14 - 3FT.-9FT./SP WHITE MINISKIP (12',90 MIL)

T15 - YELLOW SINGLE CENTER (6',90 MIL)

T16 - YELLOW DOUBLE CENTER (6',90 MIL)

T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',90 MIL)

PAVEMENT MARKING SYMBOLS

- UA - LEFT TURN ARROW (90 MIL)

UB - RIGHT TURN ARROW (90 MIL)

UC - STRAIGHT ARROW (90 MIL)

UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)

UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)

UF - COMBO. LEFT/RIGHT ARROW (90 MIL)

UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UH - HANDICAP PARKING (90 MIL)

UI - ALPHANUMERIC CHAR. (90 MIL)

UJ - BICYCLE SYMBOL (90 MIL)

UK - BICYCLE STRAIGHT ARROW (90 MIL)

UL - BICYCLE CHAR. (90 MIL)

UM - 12" YIELD LINE TRIANGLE (90 MIL)

UN - 24" YIELD LINE TRIANGLE (90 MIL)

UO - BICYCLE LEFT ARROW (90 MIL)

UP - MERGE ARROW (90 MIL)

UQ - RAMP ARROW SYMBOL (90 MIL)

UR - SHARROW (90 MIL)

US - BICYCLE LOOP DETECTOR (90 MIL)

UT - U-TURN ARROW (90 MIL)
- UU - FISH-HOOK STRAIGHT ARROW (90 MIL)

UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)

UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)

UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)

UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)

WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)

WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
- MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)

MB - PERMANENT RAISED MARKER (CRYSTAL & RED)

MC - PERMANENT RAISED MARKER (YELLOW & RED)

MD - PERMANENT RAISED MARKER (YELLOW)

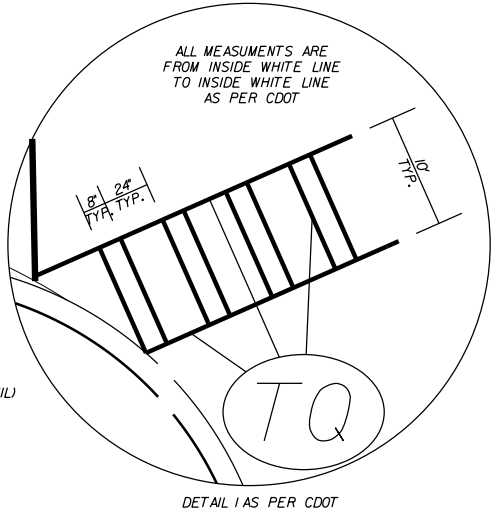
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)

MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)

MG - SNOWPLOWABLE MARKER (YELLOW & RED)

ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)

MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



LEFT AND RIGHT TURN LANES
ON NC 160 AND
HAMILTON RD.(SR-1106)

SCALE
1"=50'

DATE
1-2019

DWG. BY
JDH

DESIGN BY
JDH

APPROVED
JDH

REVISIONS

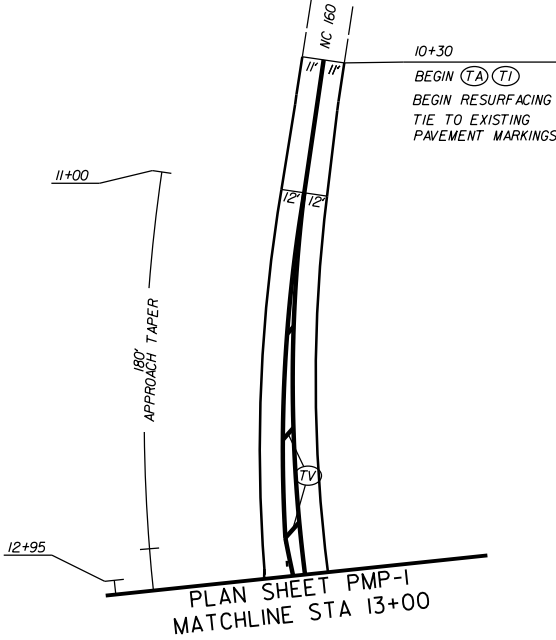
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGE LINE (4',90 MIL)	TU - WHITE DIAGONAL (12',90 MIL)
TB - YELLOW EDGE LINE (4',90 MIL)	TV - YELLOW DIAGONAL (12',90 MIL)
TC - 10FT. WHITE SKIP (4',90 MIL)	TI - WHITE LINE, RR X (16',90 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4',90 MIL)	T2 - WHITE STOPBAR (24',90 MIL)
TE - WHITE SOLID LANE LINE (4',90 MIL)	T3 - WHITE CROSSWALK LINE (24',90 MIL)
TF - 10FT. YELLOW SKIP (4',90 MIL)	T4 - WHITE RUMBLE STRIP (4',240 MIL)
TH - YELLOW SINGLE CENTER (4',90 MIL)	T5 - YELLOW RUMBLE STRIP (4',240 MIL)
TI - YELLOW DOUBLE CENTER (4',90 MIL)	T6 - WHITE EDGE LINE (6',90 MIL)
TJ - 10FT. WHITE SKIP (6',90 MIL)	T7 - YELLOW EDGE LINE (6',90 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6',90 MIL)	T8 - 2FT.-6FT./SP WHITE MINISKIP (4',90 MIL)
TL - WHITE SOLID LANE LINE (6',90 MIL)	T9 - 2FT.-6FT./SP YELLOW MINISKIP (12',90 MIL)
TM - 10FT. YELLOW SKIP (6',90 MIL)	T10 - 3FT.-3FT./SP WHITE MINISKIP (12',90 MIL)
TN - WHITE GORE LINE (8',90 MIL)	T11 - 2FT.-6FT./SP WHITE MINISKIP (6',90 MIL)
TO - WHITE DIAGONAL (8',90 MIL)	T12 - 2FT.-6FT./SP YELLOW MINISKIP (6',90 MIL)
TP - YELLOW DIAGONAL (8',90 MIL)	T13 - 3FT.-9FT./SP WHITE MINISKIP (8',90 MIL)
TQ - WHITE CROSSWALK LINE (8',90 MIL)	T14 - 3FT.-9FT./SP WHITE MINISKIP (12',90 MIL)
TR - WHITE SOLID LANE LINE (8',90 MIL)	T15 - YELLOW SINGLE CENTER (6',90 MIL)
TS - WHITE GORE LINE (12',90 MIL)	T16 - YELLOW DOUBLE CENTER (6',90 MIL)
TT - WHITE SOLID LANE LINE (12',90 MIL)	T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8',90 MIL)

PAVEMENT MARKING SYMBOLS

UA - LEFT TURN ARROW (90 MIL)	UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)	UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)	UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)	UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)	UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)	UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)	
UH - HANDICAP PARKING (90 MIL)	WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
UI - ALPHANUMERIC CHAR. (90 MIL)	WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
UJ - BICYCLE SYMBOL (90 MIL)	WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)	
UL - BICYCLE CHAR. (90 MIL)	MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
UM - 12" YIELD LINE TRIANGLE (90 MIL)	MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
UN - 24" YIELD LINE TRIANGLE (90 MIL)	MC - PERMANENT RAISED MARKER (YELLOW & RED)
UO - BICYCLE LEFT ARROW (90 MIL)	MD - PERMANENT RAISED MARKER (YELLOW)
UP - MERGE ARROW (90 MIL)	ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
UQ - RAMP ARROW SYMBOL (90 MIL)	MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
UR - SHARROW (90 MIL)	MG - SNOWPLOWABLE MARKER (YELLOW & RED)
US - BICYCLE LOOP DETECTOR (90 MIL)	ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
UT - U-TURN ARROW (90 MIL)	MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



LEFT AND RIGHT TURN LANES
ON NC 160 AND
HAMILTON RD.(SR-1106)

SCALE	1"=50'
DATE	1-2019
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	JDH

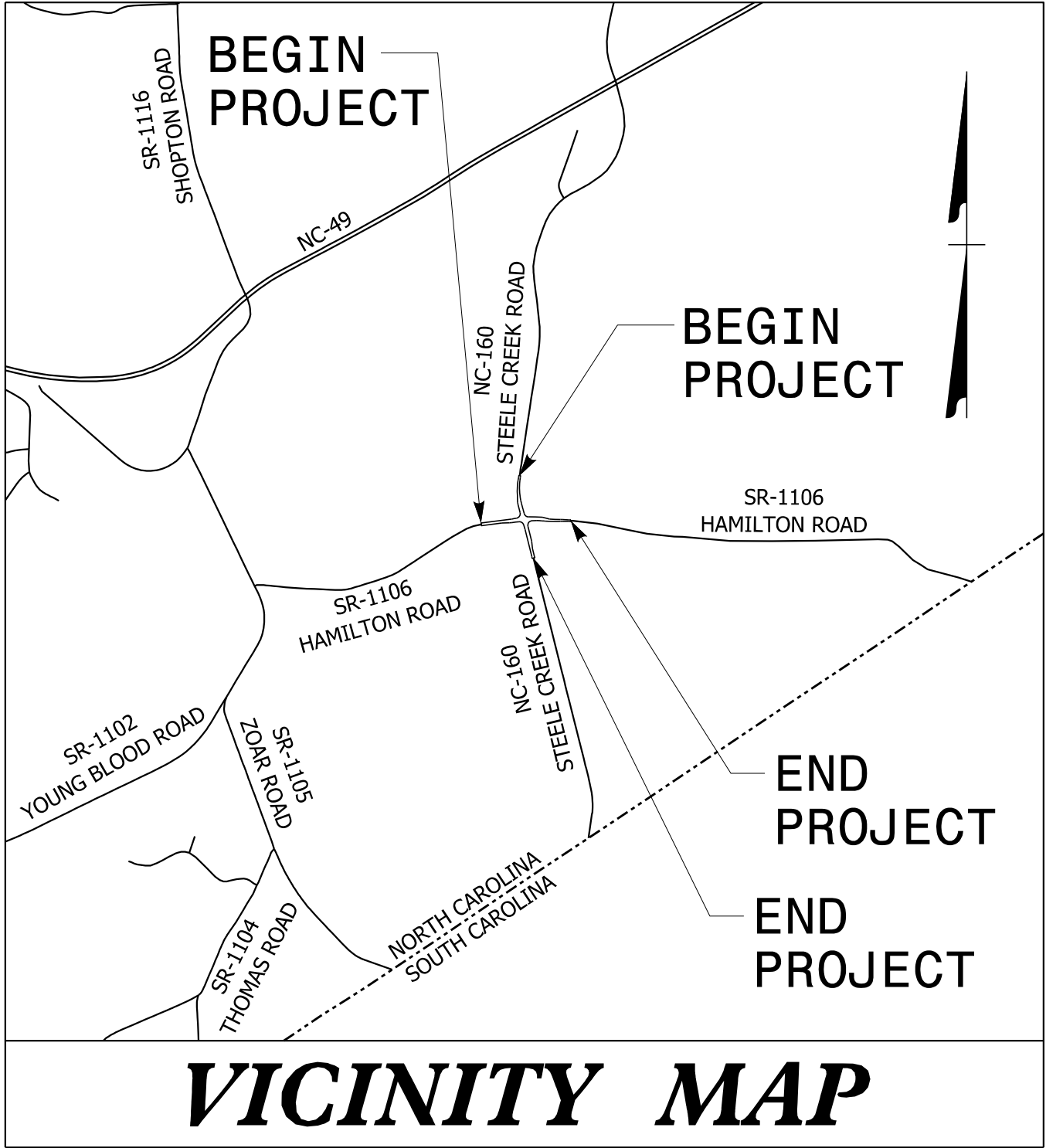
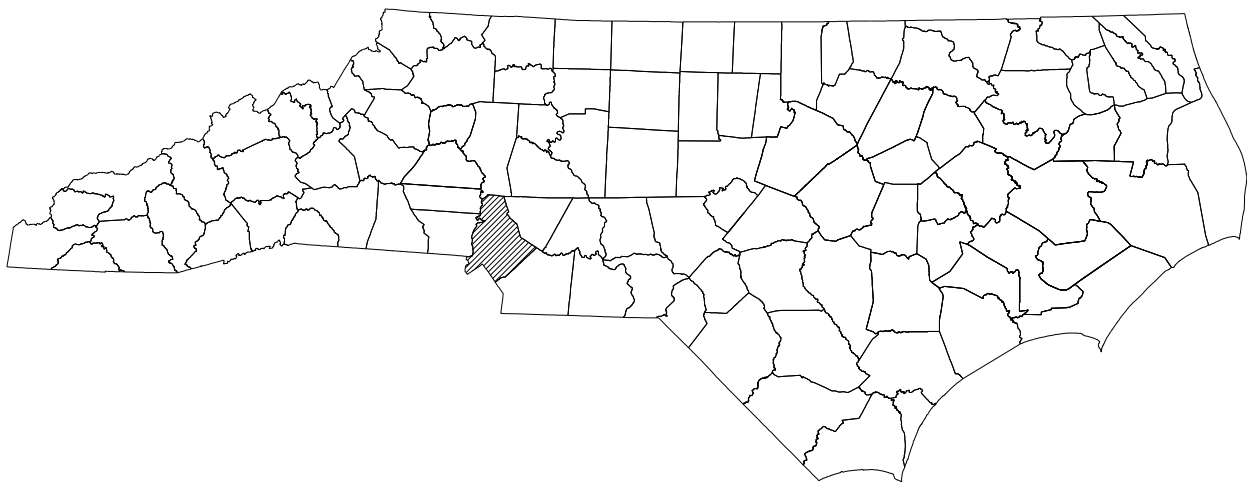


REVISIONS	

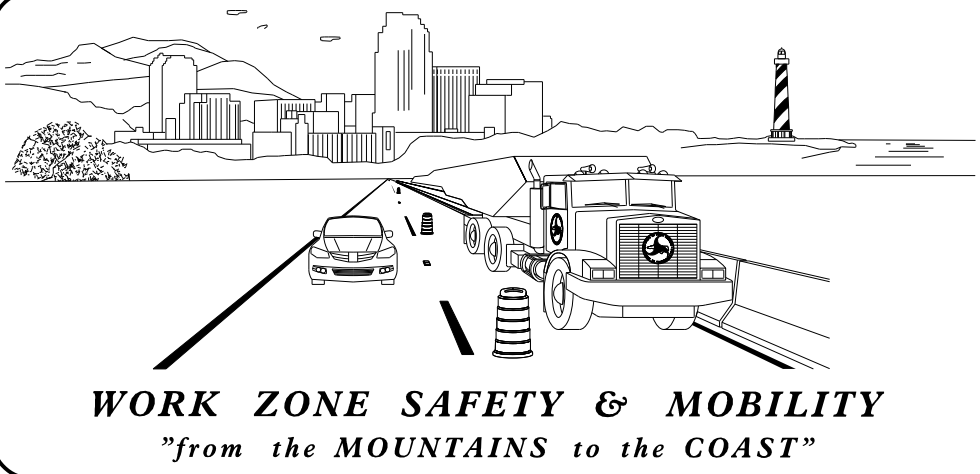
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG COUNTY



LOCATION: INTERSECTION OF NC 160 (STEELE CREEK ROAD)
AND SR 1106 (HAMILTON ROAD)



PREPARED FOR:

NCDOT DIVISION 10

CONTACT: DONALD GRIFFITH
716 W MAIN STREET
ALBEMARLE, NC 28001



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-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Plans Prepared By:
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DRMP, Inc.
8000 Regency Parkway, Suite 175
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LISA M. MOON, P.E.
ADAM J. DAVIS, P.E.

APPROVED: Lisa M. Moon
DATE: 10/3/2017

SEAL



TIP PROJECT: U-5762

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - CONTRACT STANDARDS AND DEVELOPMENT 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:

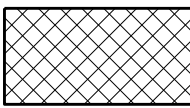
STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS

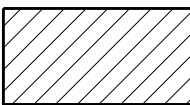
LEGEND

GENERAL

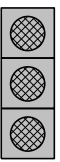
-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

 WORK AREA

 REMOVAL

 WEDGING

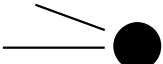
SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

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
- 
- 

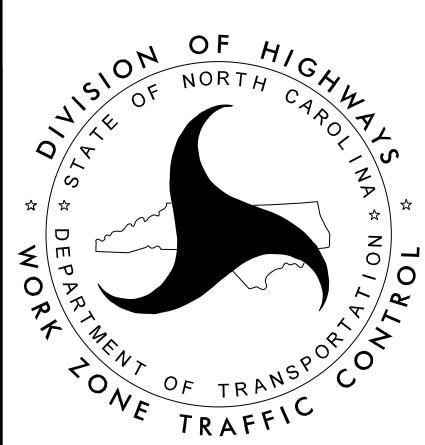
TEMPORARY PAVEMENT MARKING

	PAINT	
PA	WHITE EDGE LINE	(4")
PD	3 FT. - 9 FT./SP WHITE MINISKIP	(4")
PE	WHITE SOLID LANE LINE	(4")
PI	YELLOW DOUBLE CENTER	(4")
PV	YELLOW DIAGONAL	(12")
PQ	WHITE CROSSWALK LINE	(8")
P2	WHITE STOP BAR	(24")
QA	LEFT TURN ARROW	
QB	RIGHT TURN ARROW	
QC	STRAIGHT ARROW	

10/3/2017
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User:rlawton

Plans Prepared By:



APPROVED: 			ROADWAY STANDARD DRAWINGS & LEGEND
DATE: 10/3/2017			
SEAL			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PROJ. REFERENCE NO.	SHEET NO.
B - 5762	TMP - 1B

MANAGEMENT STRATEGIES

THIS PROJECT HAS BEEN PHASED TO MAINTAIN THE EXISTING TRAFFIC PATTERN WHILE CONSTRUCTION TAKES PLACE AWAY FROM TRAFFIC WHEN POSSIBLE OR AT NIGHT UNDER FLAGGING. WEDGING OVER THE EXISTING ROADWAY WILL OCCUR UNDER FLAGGING TO RAISE THE SURFACE TO FINAL GRADE.

TRAFFIC WILL BE SHIFTED TO THE FINAL PATTERN USING AN ICT TO MINIMIZE IMPACT ON NC 160 AND HAMILTON ROAD. REMOVAL OF EXISTING PAVEMENT AND FINALIZING GRADE ALONG THE SHOULDER WILL TAKE PLACE WHILE TRAFFIC REMAINS IN FINAL PATTERN.

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 160 (STEELE CREEK ROAD)	MONDAY THROUGH SUNDAY
SR 1106 (HAMILTON ROAD)	6:00 A.M. TO 8:00 P.M.

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

ROAD NAME

NC 160 (STEEL CREEK ROAD)
SR 1106 (HAMILTON ROAD)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 8:00 P.M. DECEMBER 31ST TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 8:00 P.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 8:00 P.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 8:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 8:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 8:00 P.M. FRIDAY AND 8:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 8:00 P.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 8:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. 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.

- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- O) 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.

- P) 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

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

ROAD NAME	MARKING	MARKER
NC-160 (STEELE CREEK ROAD)	PAINT	NONE
SR-1106 (HAMILTON ROAD)	PAINT	NONE

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

- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- U) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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Plans Prepared By:



APPROVED: <i>Lisa M. Moon</i>		TRANSPORTATION OPERATIONS PLAN
DATE: 10/3/2017		
SEAL		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PROJ. REFERENCE NO.	SHEET NO.
B - 5762	TMP - 2

PHASING

THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (CDOT) WILL PERFORM CONSTRUCTION OF TRAFFIC SIGNALS INCLUDING EQUIPMENT INSTALLATION, EQUIPMENT REMOVAL, PROGRAMMING, AND ASSOCIATED TRAFFIC CONTROL. COORDINATE WITH CDOT FOR THIS WORK.

PHASE I

STEP 1:
INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01, SHEET 3 OF 3. POSITION "ROAD WORK AHEAD" SIGNS APPROXIMATELY 1600' FROM CONSTRUCTION LIMITS ON EACH APPROACH TO ACCOMMODATE FLAGGERS AND SIGNS FOR TEMPORARY LANE CLOSURES.

STEP 2:
AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEETS 1 AND 2 OF 14, AND LAW ENFORCEMENT AS NECESSARY, BEGIN CONSTRUCTION OF THE FOLLOWING UP TO EDGE AND ELEVATION, AS SHOWN ON TMP-3:
-L- FROM STA 10+30+/- TO STA 21+70+/-
-Y- FROM STA 10+00+/- TO STA 22+13+/-

COORDINATE WITH UTILITY COMPANIES AND CDOT FOR REMOVAL OF POLES WITHIN CONSTRUCTION AREA. CDOT SHALL INSTALL THE TEMPORARY SIGNAL, TRANSFER SIGNAL CONTROL FROM THE EXISTING SIGNAL TO THE TEMPORARY SIGNAL, AND REMOVE ALL EXISTING SIGNAL EQUIPMENT, INCLUDING SIGNAL POLES AND JOINT-USE POLES IF CDOT IS LAST UTILITY ON POLE. CDOT WILL PROVIDE ANY TRAFFIC CONTROL NECESSARY IN CONJUNCTION WITH THE TRAFFIC SIGNAL CONSTRUCTION.

STEP 3:
AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEETS 1, 2, AND 11 OF 14 AS NECESSARY, COMPLETE CONSTRUCTION OF THE FOLLOWING, UP TO EDGE AND ELEVATION, AS SHOWN ON TMP-3:
-L- FROM STA 10+30+/- TO STA 21+70+/-
-Y- FROM STA 10+00+/- TO STA 22+13+/-

STEP 4:
AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEETS 1, 2, AND 11 OF 14, AND LAW ENFORCEMENT AS NECESSARY, COMPLETE CONSTRUCTION OF THE FOLLOWING, UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE, WEDGING AS NECESSARY TO MEET APPROPRIATE GRADE AND PROVIDE POSITIVE DRAINAGE, AS SHOWN ON TMP-3:
-L- FROM STA 10+30+/- TO STA 21+70+/-
-Y- FROM STA 10+00+/- TO STA 22+13+/-

APPLY EACH LAYER OF ASPHALT, ALTERNATING -L- AND -Y- LINES, TO MINIMIZE THE BUMP CREATED FOR VEHICLES CROSSING -L- AND MAINTAIN TRAFFIC OPERATIONS THRU THE INTERSECTION.

COORDINATE WITH CDOT FOR INSTALLATION OF THE FINAL SIGNAL FOR UPCOMING TRAFFIC SHIFT.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK REQUIRED IN PHASE I, STEP 5 WITHIN A SINGLE WEEKEND PERIOD BETWEEN 8:00 PM FRIDAY AND 6:00 AM MONDAY. [SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES]

STEP 5:
USING RSD 1101.02, SHEETS 1, 2, AND 11 OF 14, AND LAW ENFORCEMENT AS NECESSARY, COMPLETE THE FOLLOWING:
-APPLY TEMPORARY PAVEMENT MARKINGS, AS SHOWN ON TMP-4:
-L- FROM STA 10+30+/- TO STA 21+70+/-
-Y- FROM STA 10+00+/- TO STA 22+13+/-
-INSTALL FINAL SIGNS
-SHIFT TRAFFIC TO FINAL PATTERN

COORDINATE WITH CDOT TO COMPLETE INSTALLATION OF FINAL SIGNAL. CONTRACTOR AND CDOT SHALL COORDINATE TRAFFIC CONTROL NEEDS FOR FINAL SIGNAL INSTALLATION. CDOT SHALL INSTALL ALL FINAL SIGNAL EQUIPMENT, PROVIDING ADDITIONAL TRAFFIC CONTROL AS NECESSARY. CDOT SHALL, IN COORDINATION WITH THE CONTRACTOR'S WORK, ACTIVATE THE FINAL SIGNAL AND REMOVE ANY UNUSED SIGNAL EQUIPMENT.

PHASE II

STEP 1:
AWAY FROM TRAFFIC AND USING RSD 1101.02, SHEETS 1 AND 2 OF 14 AS NECESSARY, AND LAW ENFORCEMENT, COMPLETE THE FOLLOWING:
-REMOVE EXISTING PAVEMENT AND FINALIZE SHOULDER GRADE ALONG -Y- FROM STA 11+58+/- TO STA 19+38+/-, AS SHOWN ON TMP-4.

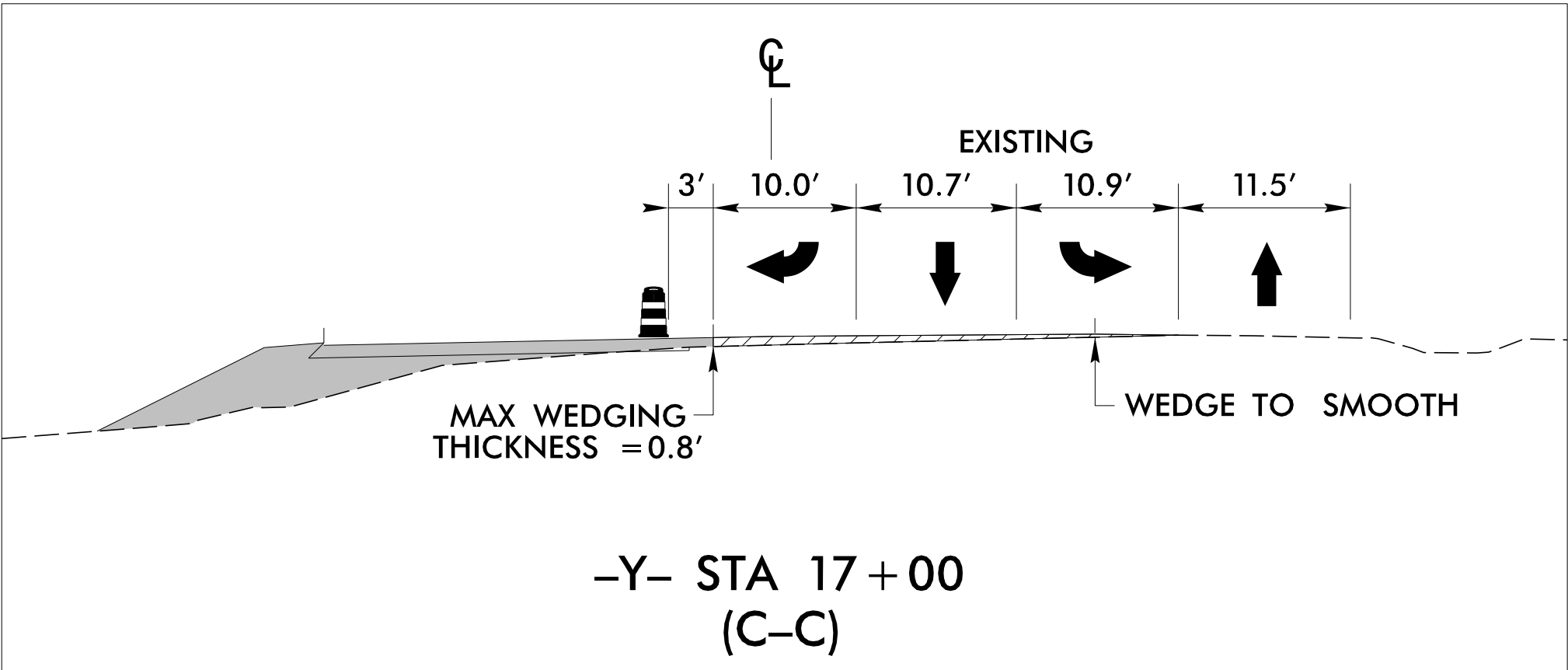
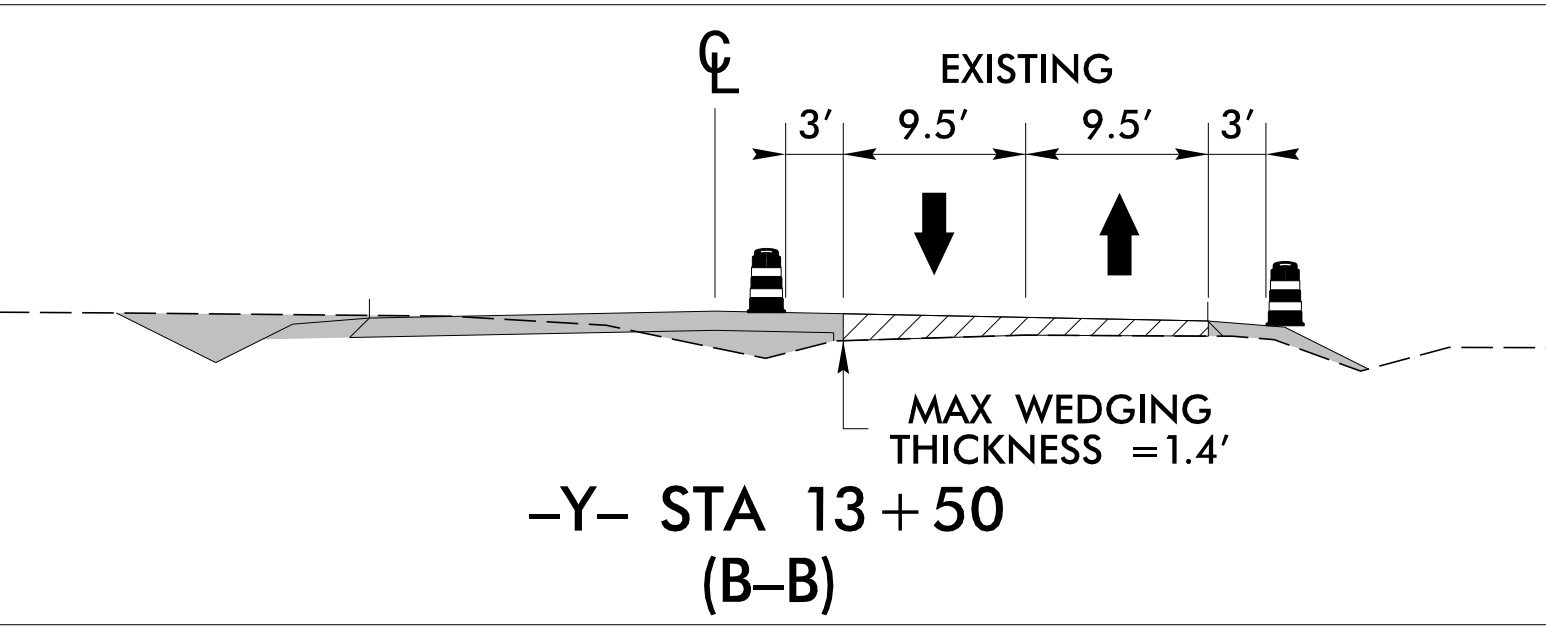
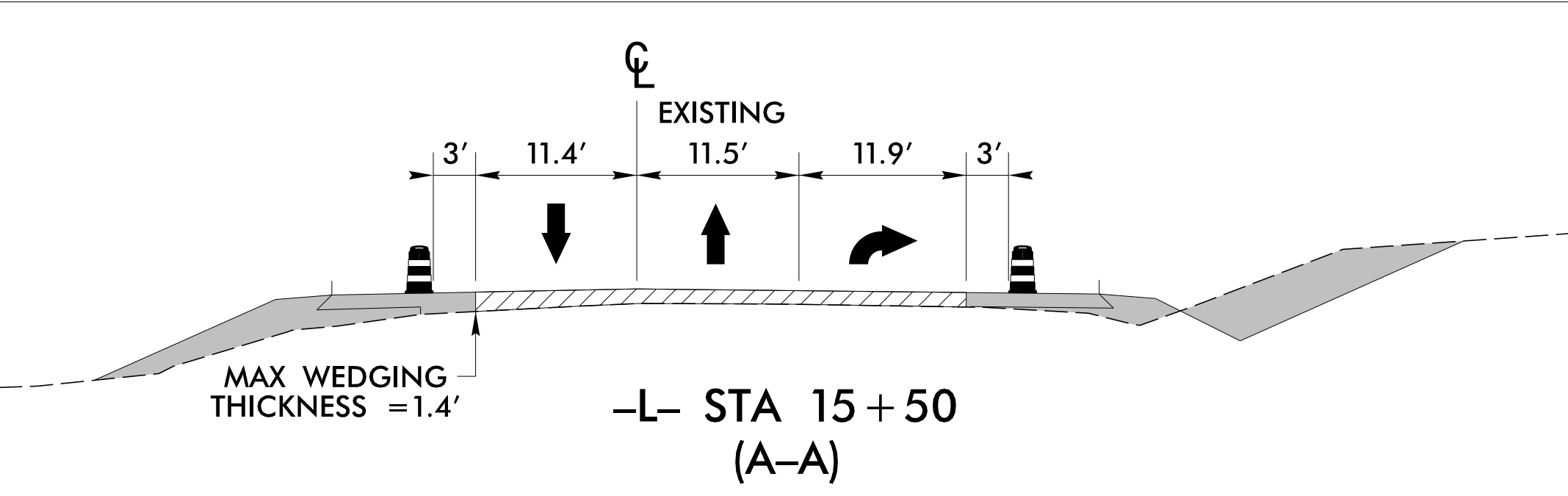
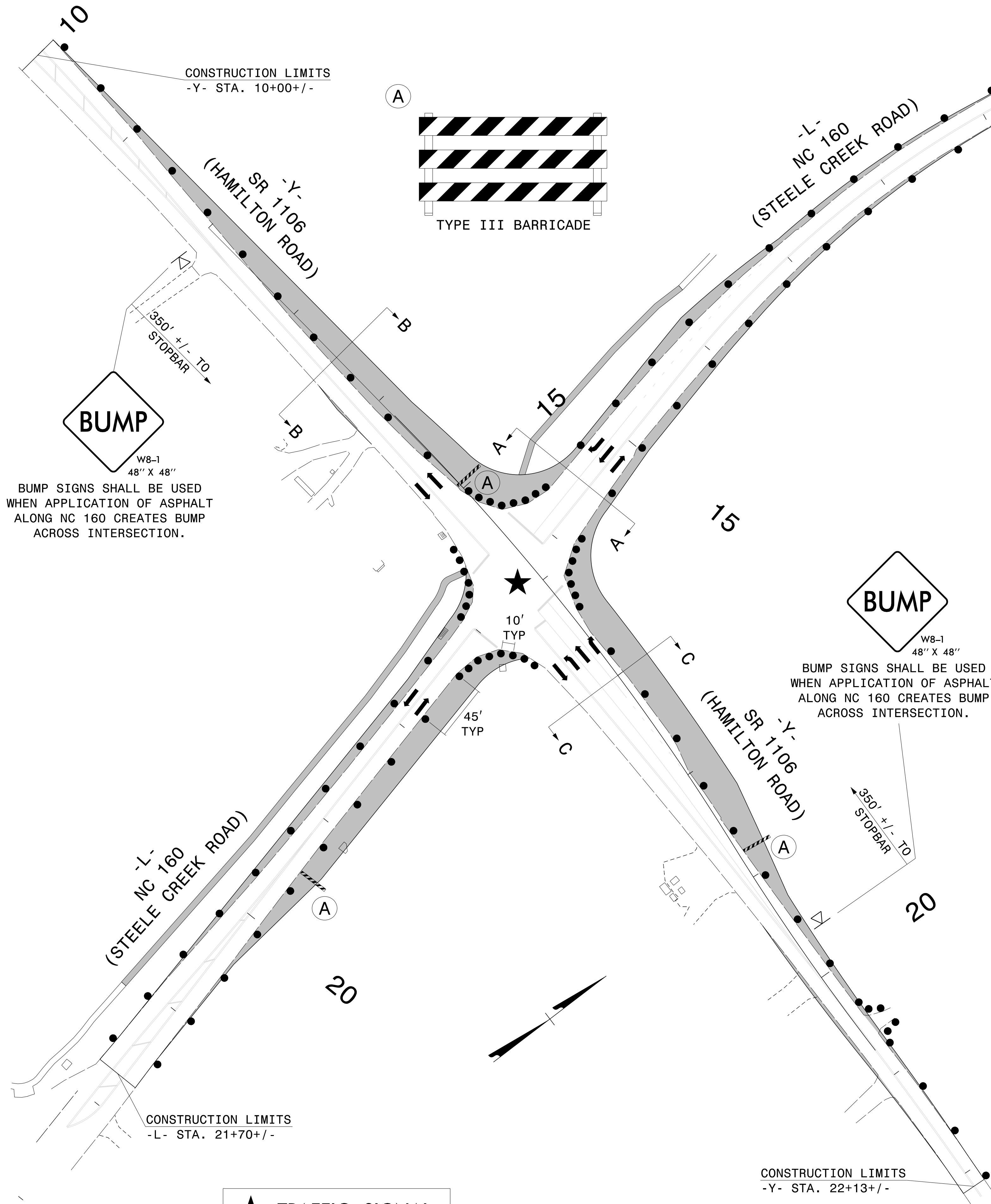
STEP 2:
USING RSD 1101.02 SHEETS 1,2, AND 11 OF 14 AS NECESSARY, AND LAW ENFORCEMENT, COMPLETE THE FOLLOWING WORK:
-PLACE FINAL LAYER OF SURFACE COURSE ON:
-L- FROM STA 10+30+/- TO STA 21+70+/-
-Y- FROM STA 10+00+/- TO STA 22+13+/-
-PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON THE PROJECT PER THE PAVEMENT MARKING PLANS.

Plans Prepared By:



APPROVED: <u>Lisa M. Moon</u> DATE: <u>10/3/2017</u> SEAL  DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		TEMPORARY TRAFFIC CONTROL PHASING
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PROJ. REFERENCE NO.	SHEET NO.
B-5762	TMP-3



Plans Prepared By:

DRMP

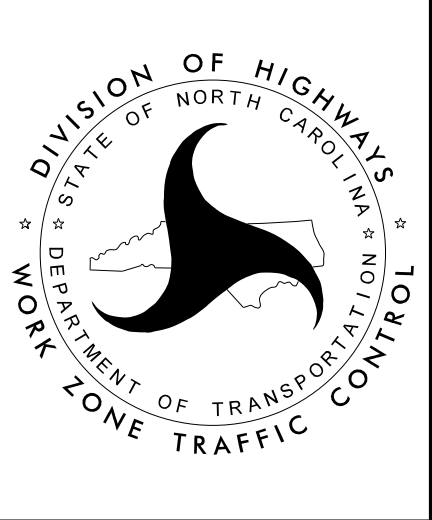
DRMP, Inc.
8000 Regency Parkway, Suite 175
Cary, NC 27518
NC License No. C-2213 (919) 850-1038

APPROVED: *Lisa M. Moon*

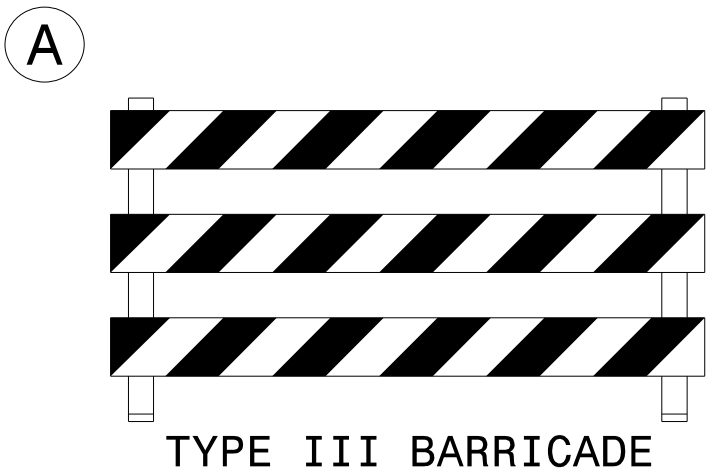
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TEMPORARY
TRAFFIC CONTROL
PHASE I
DETAIL



TEMPORARY
TRAFFIC CONTROL
PHASE II
DETAIL

APPROVED: Lisa M. Moon

DATE: 10/3/2017

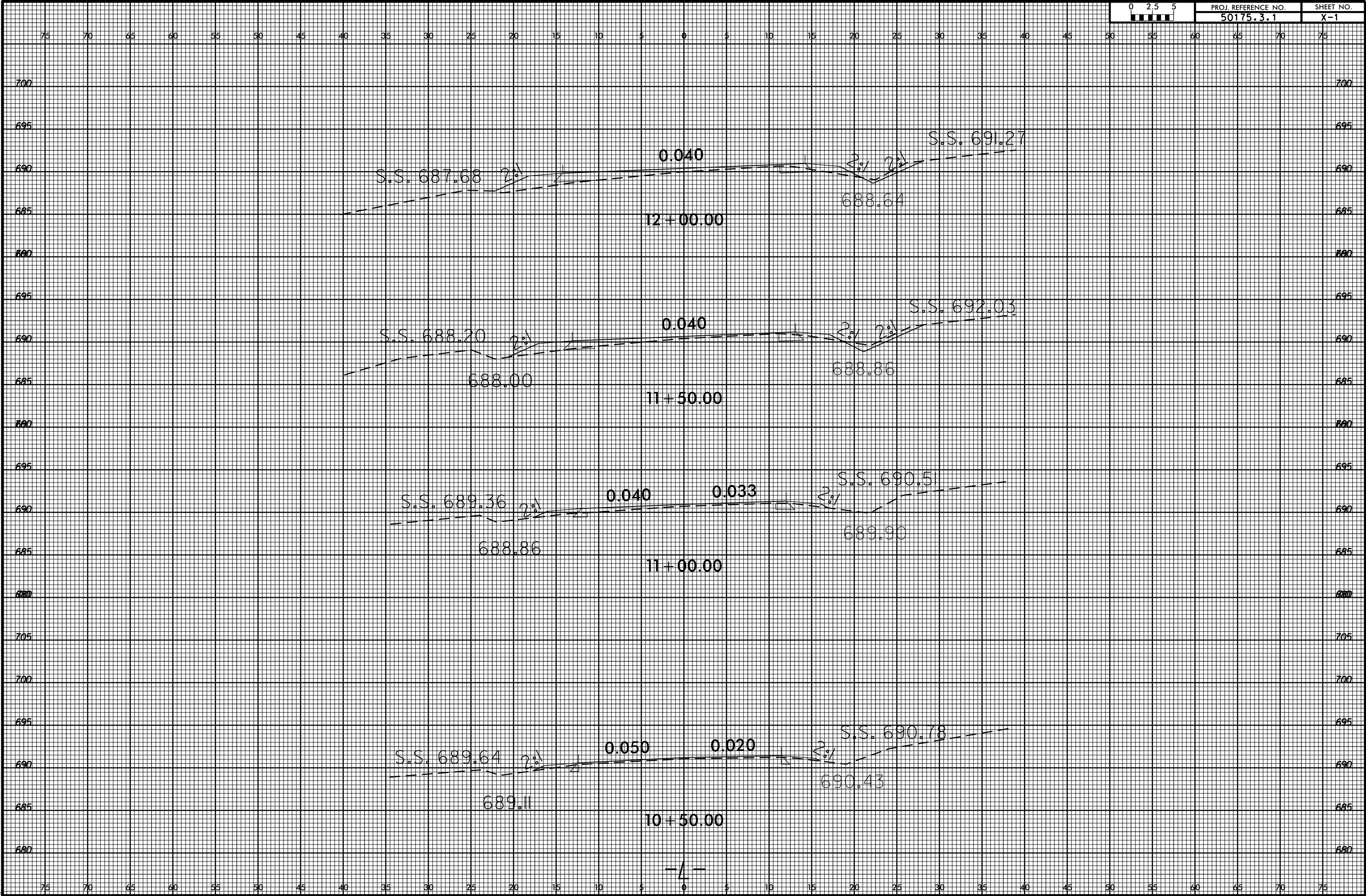
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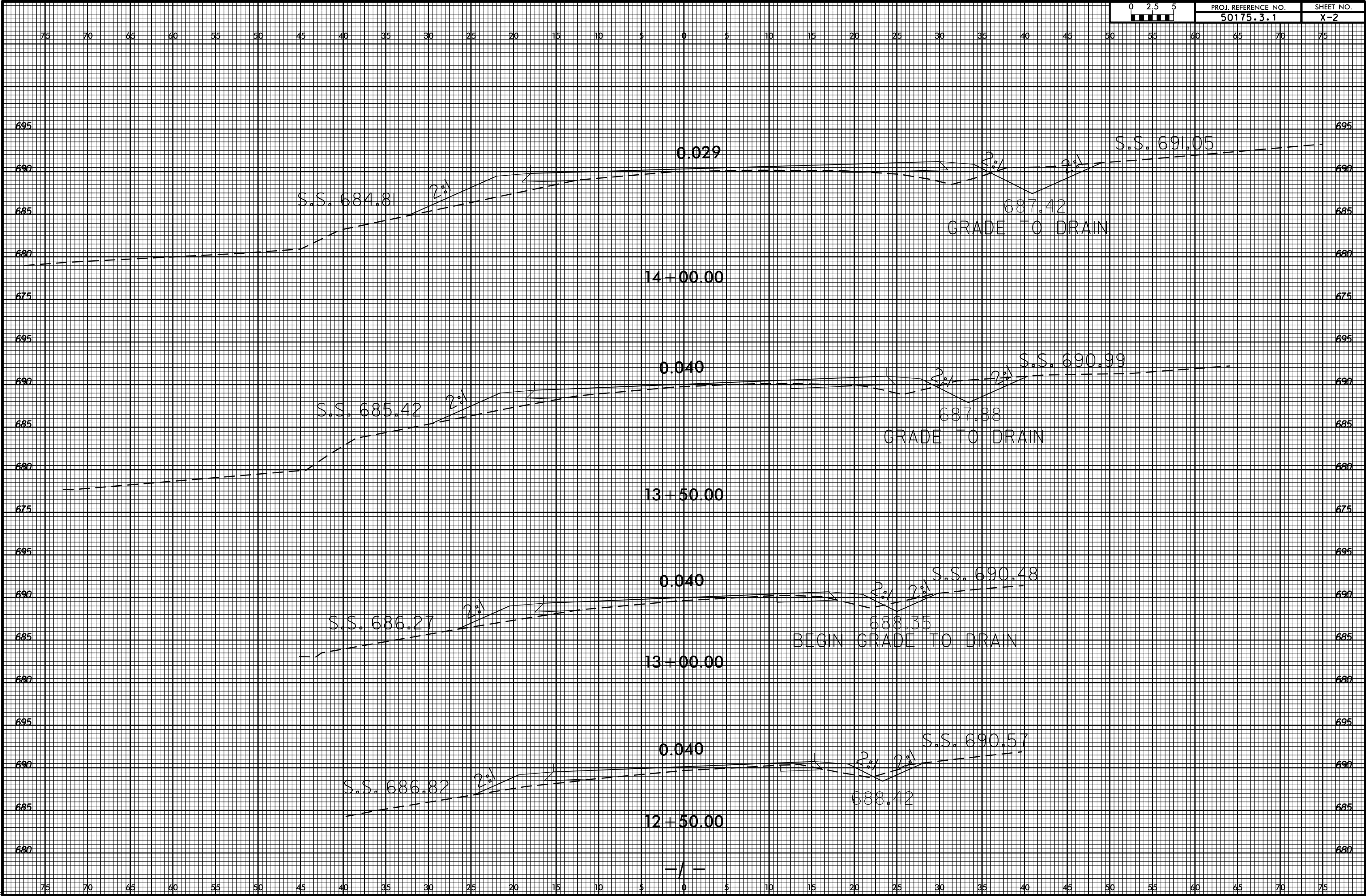
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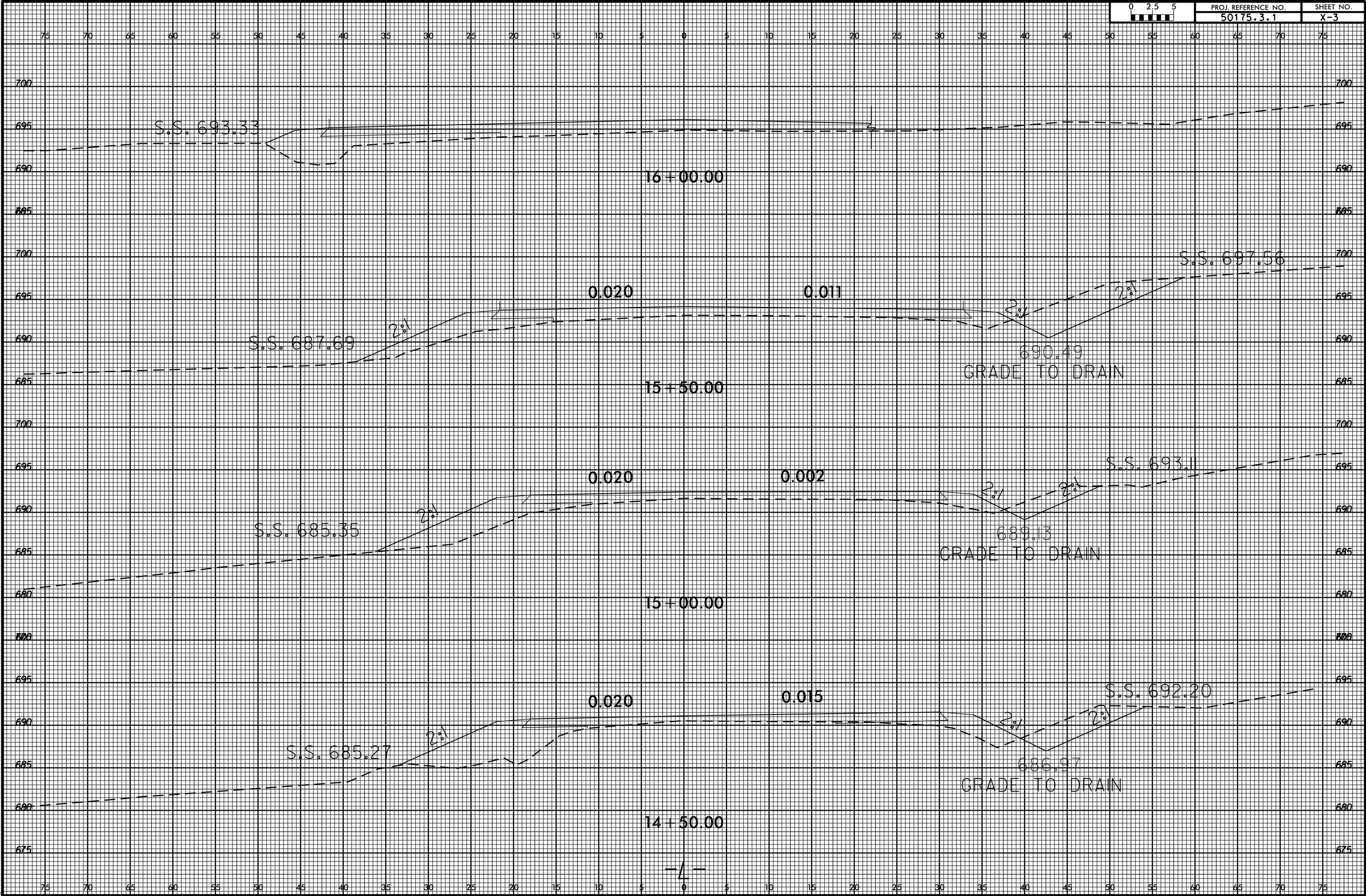
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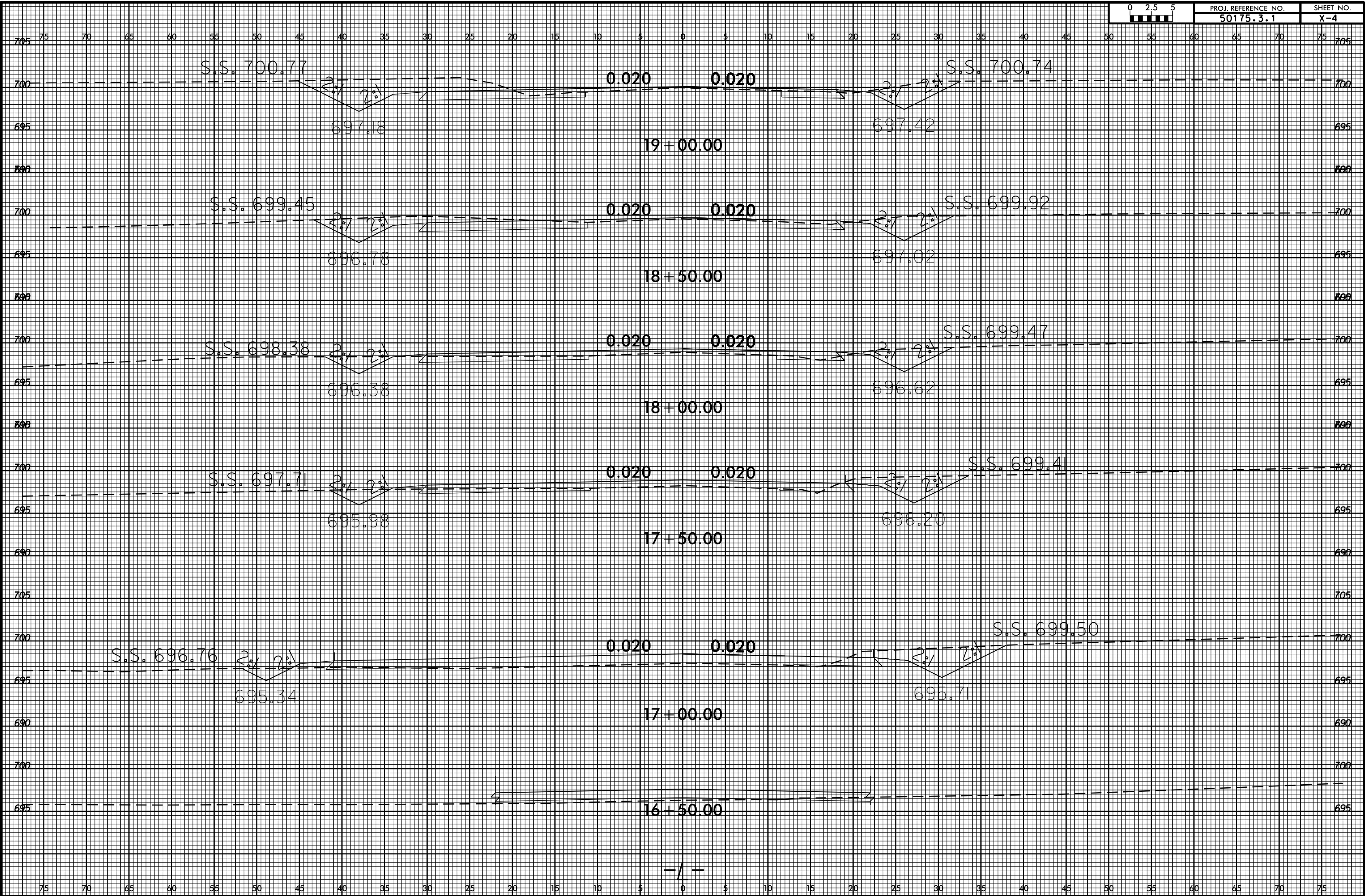


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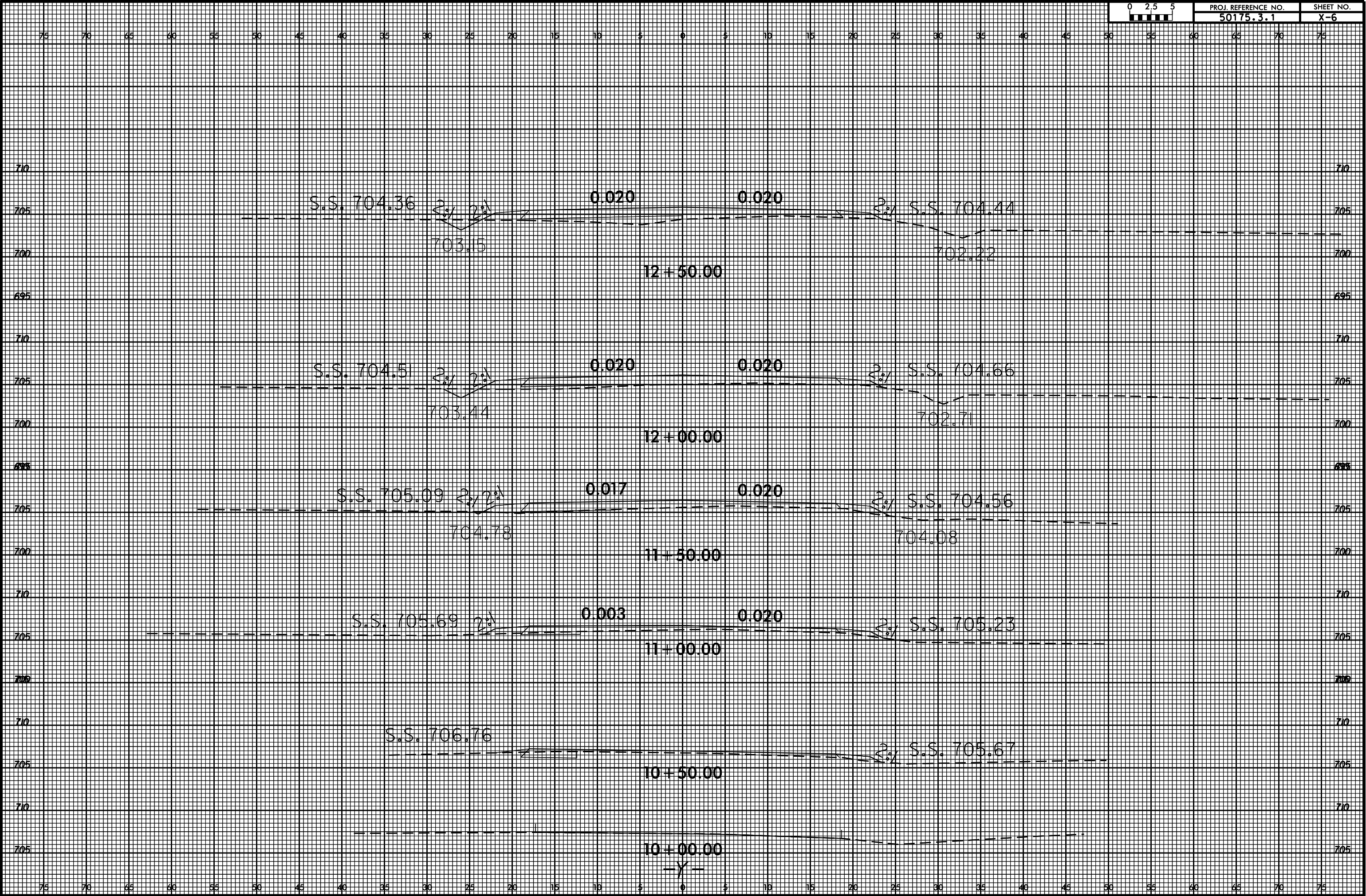
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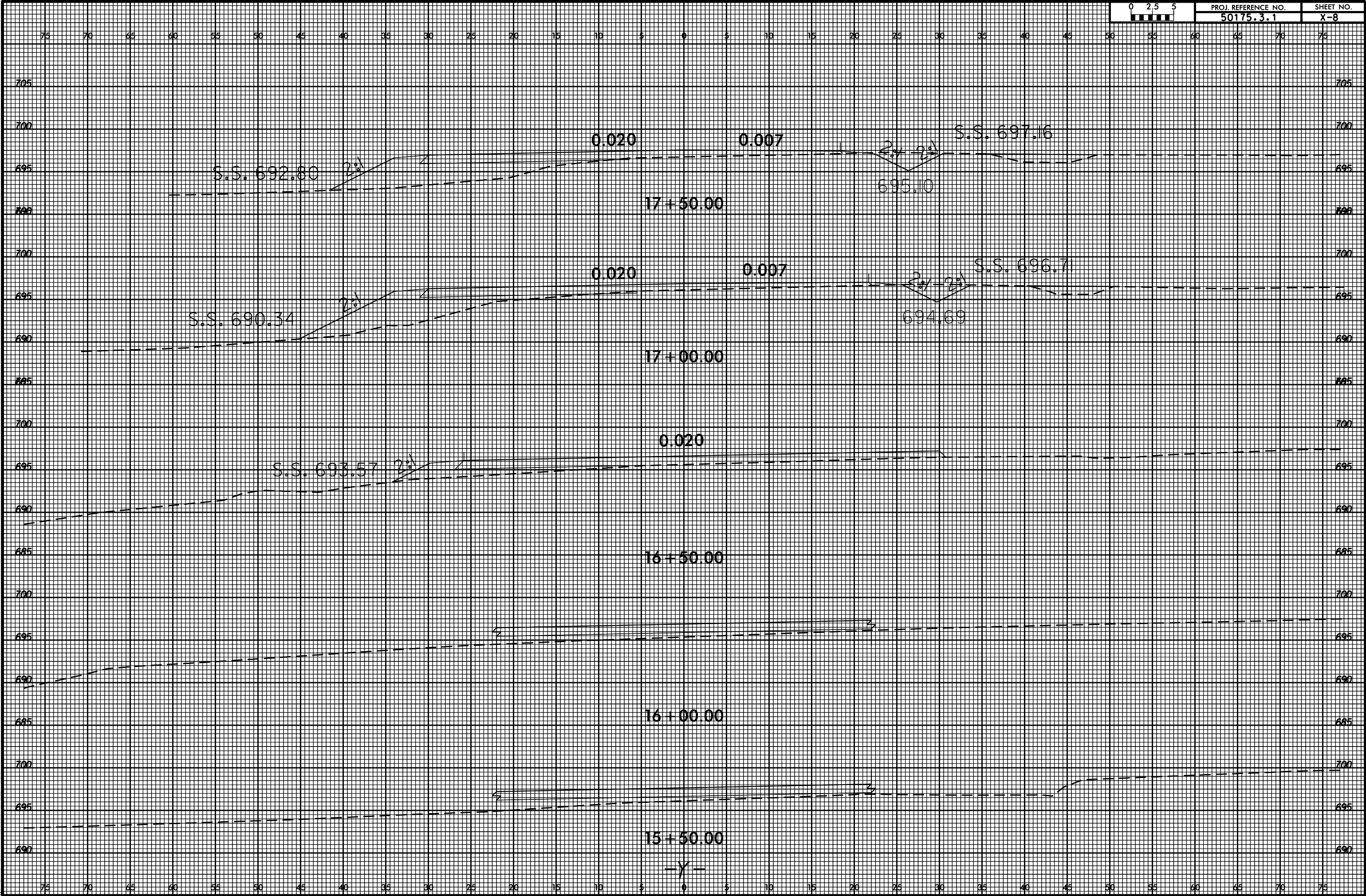


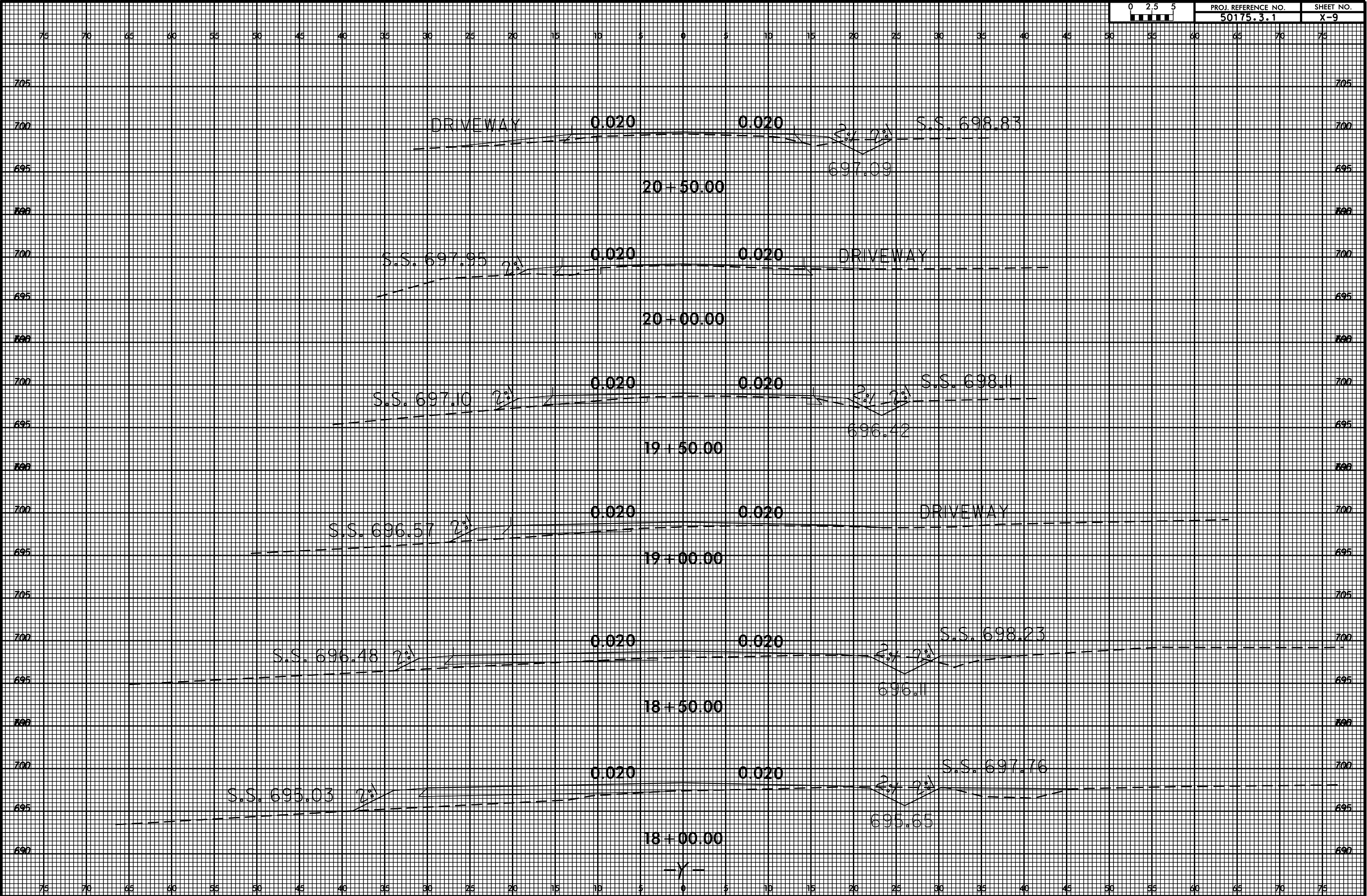
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