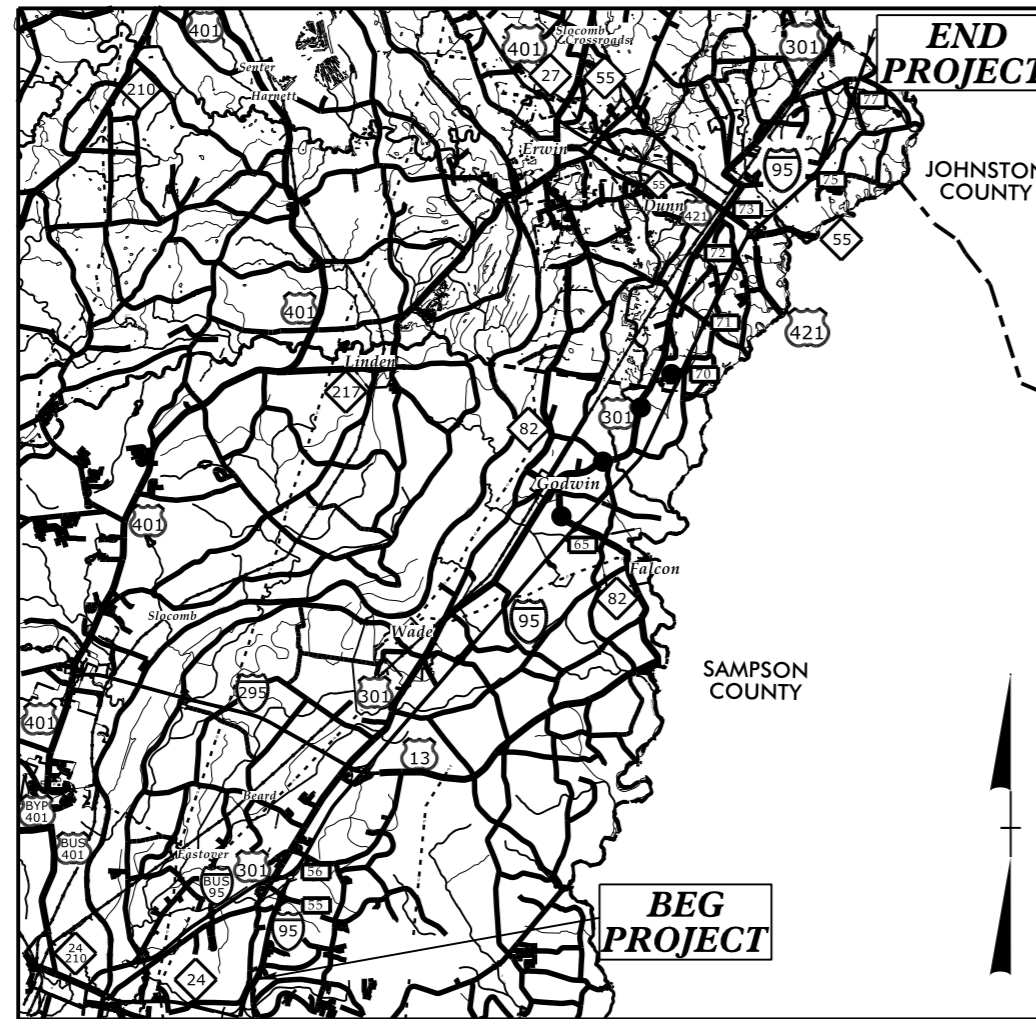


21-JAN-2016 09:57 H:\DDC\Projects\I-5788 I-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges_Cumb-Har Co\Roadway\I-5788_rdy_tsh.dgn
 \$\$\$USERNAME\$\$\$

CONTRACT: C203818 **TIP PROJECT: I-5788**

See Sheet 1-A For Index of Sheets



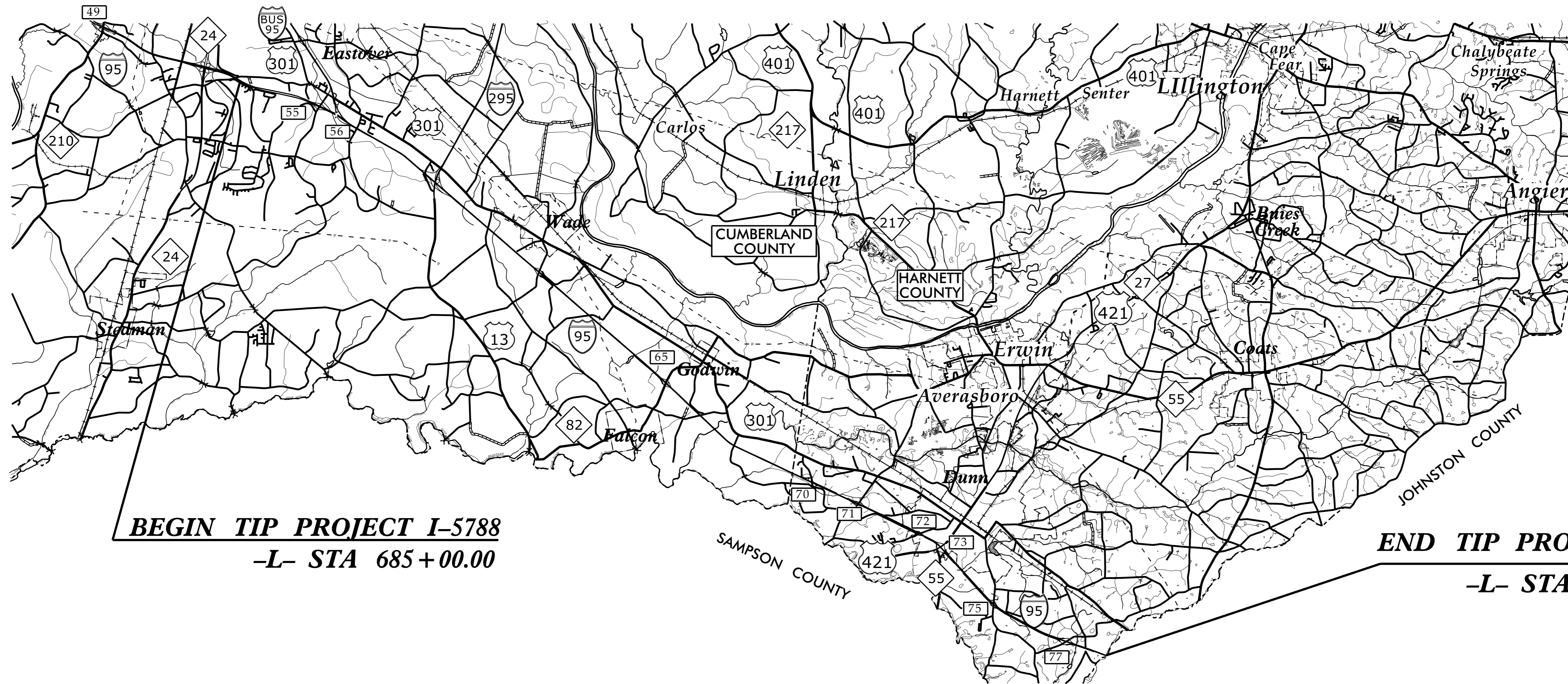
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**CUMBERLAND /HARNETT
COUNTIES**

LOCATION: I-95 FROM MILE MARKER 53 TO MILE MARKER 78

TYPE OF WORK: PAVEMENT AND BRIDGE REHABILITATION AND DRAINAGE

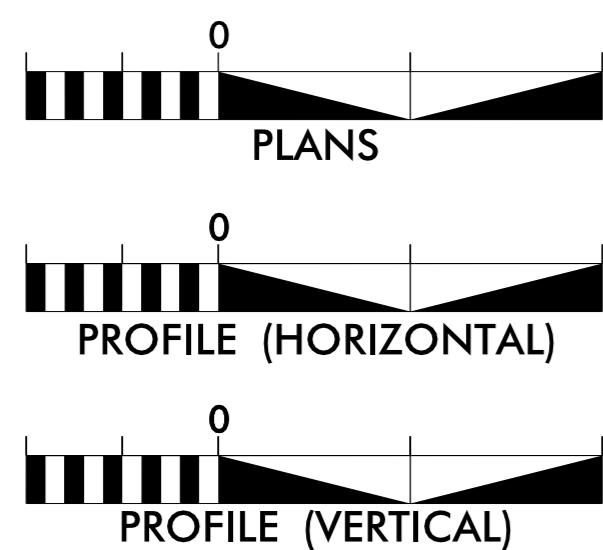
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5788	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
53028.1.1	NHPIM-0095(018)63	P.E.	
53028.3.1	NHPIM-0095(018)63	CONST	



BEGIN TIP PROJECT I-5788
-L- STA 685+00.00

END TIP PROJECT I-5788
-L- STA 2002+80.00

GRAPHIC SCALES



DESIGN DATA

ADT 2016 = 51,700

PROJECT LENGTH

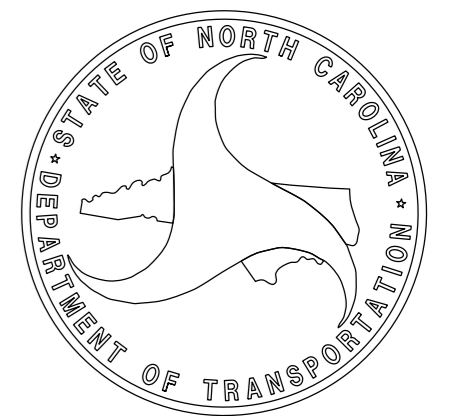
TOTAL LENGTH OF TIP PROJECT I-5788 = 24.82 miles

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

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
MARCH 15, 2016



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

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1 THRU 3B-3	ROADWAY SUMMARIES
3D-1 THRU 3D-2	DRAINAGE SUMMARIES
4 THRU 19	PLAN SHEETS
TMP-1 THRU TMP-6	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-25	PAVEMENT MARKING PLANS
S-1 THRU S-72	STRUCTURE PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 10-31-2014

GUARDRAIL:

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

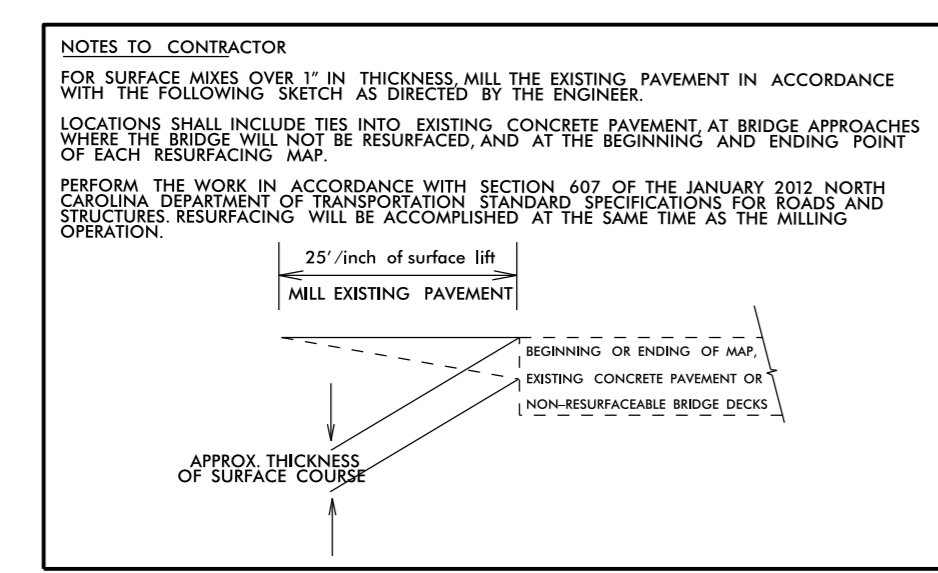
2012 ROADWAY ENGLISH STANDARD DRAWINGS

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

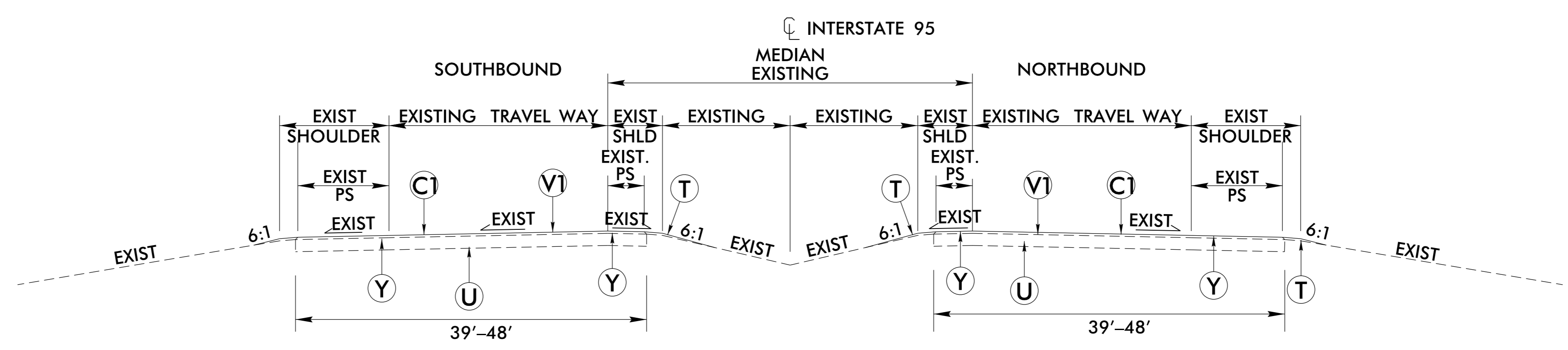
STD. NO.	TITLE
DIVISION 8 - INCIDENTALS	
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sq. Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
862.01	Guardrail Placement
862.02	Guardrail Installation
866.02	Woven Wire Fence with Wood Posts

27 JAN 2016 12:37 PM
 I:\5788\I-5788\I-5788-rdy.tsh.dgn
 8/17/09

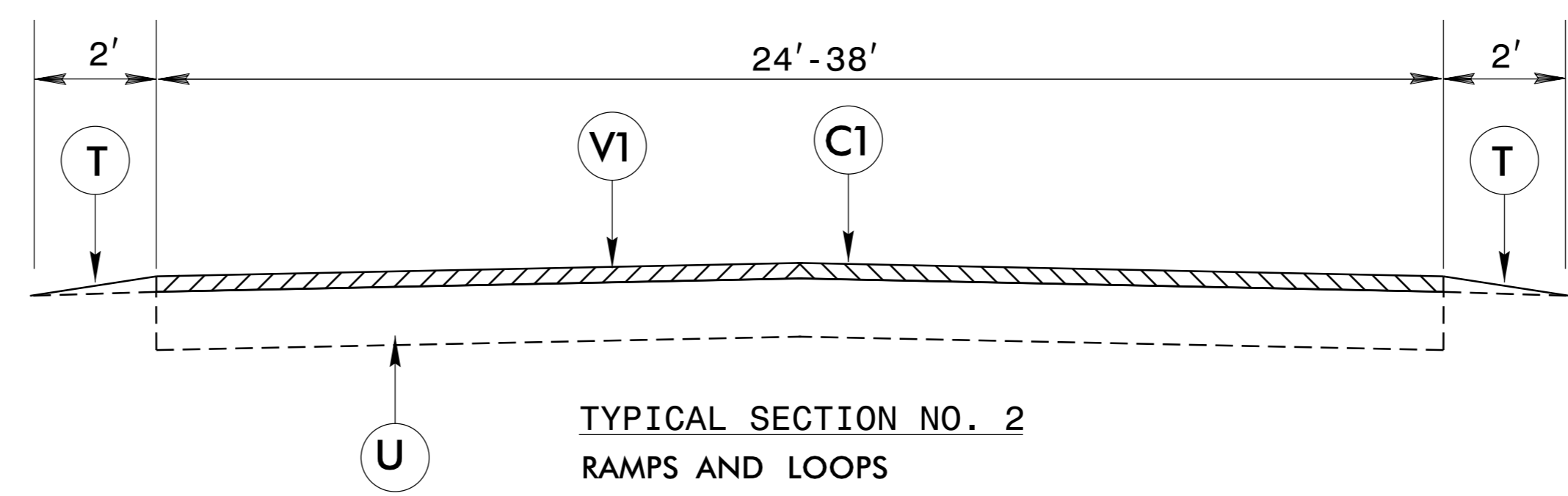
FINAL PAVEMENT SCHEDULE	
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
T	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	2" MILLED ASPHALT PAVEMENT
Y	PROPOSED MILLED RUMBLE STRIPS



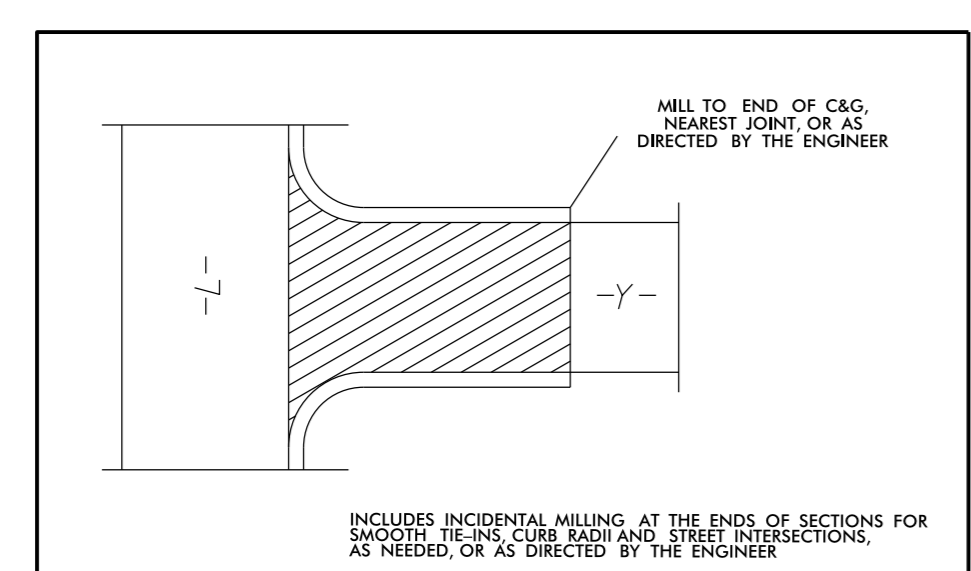
MILLING AT PAVEMENT TIE-INS DETAIL



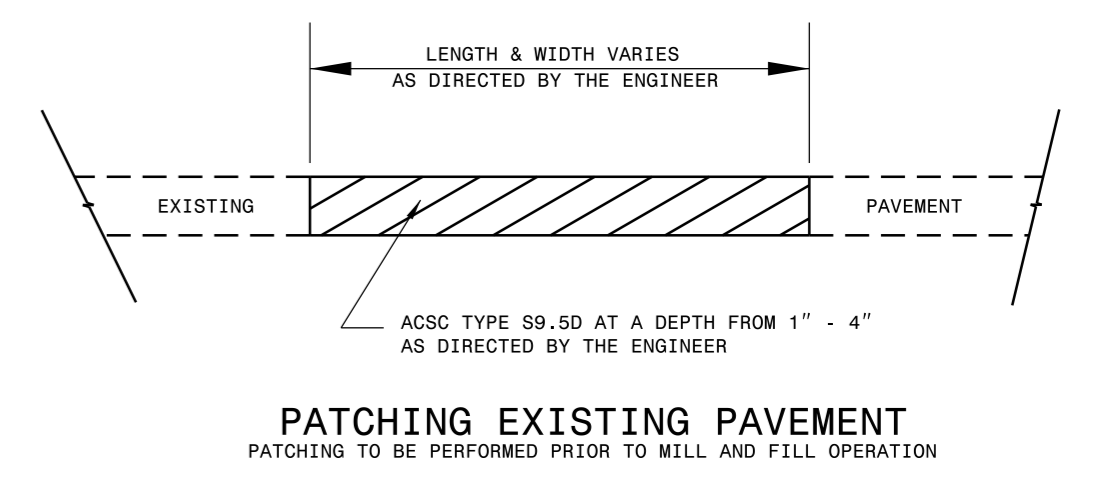
USE TYPICAL SECTION NO. 1
-L- MILE MARKER 53 TO MILE MARKER 78



TYPICAL SECTION NO. 2
RAMPS AND LOOPS



MILLING AT CURB AND GUTTER INTERSECTIONS

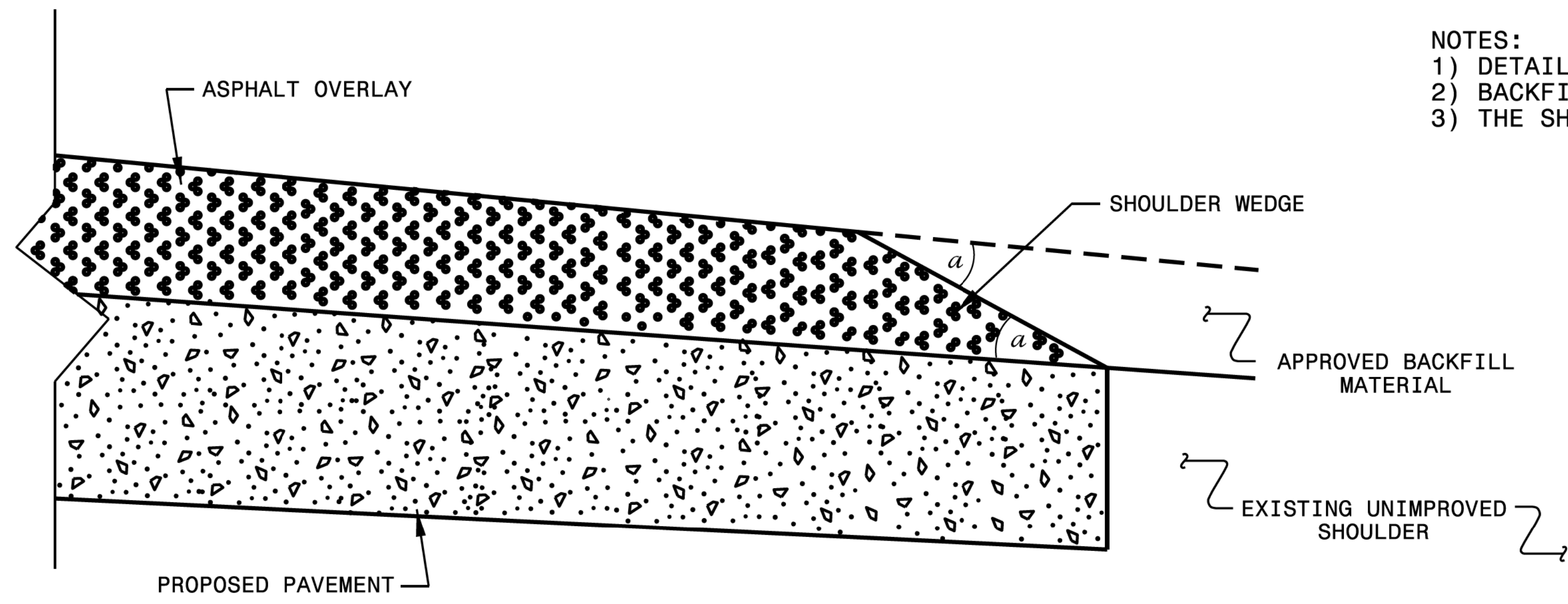


PATCHING EXISTING PAVEMENT
PATCHING TO BE PERFORMED PRIOR TO MILL AND FILL OPERATION

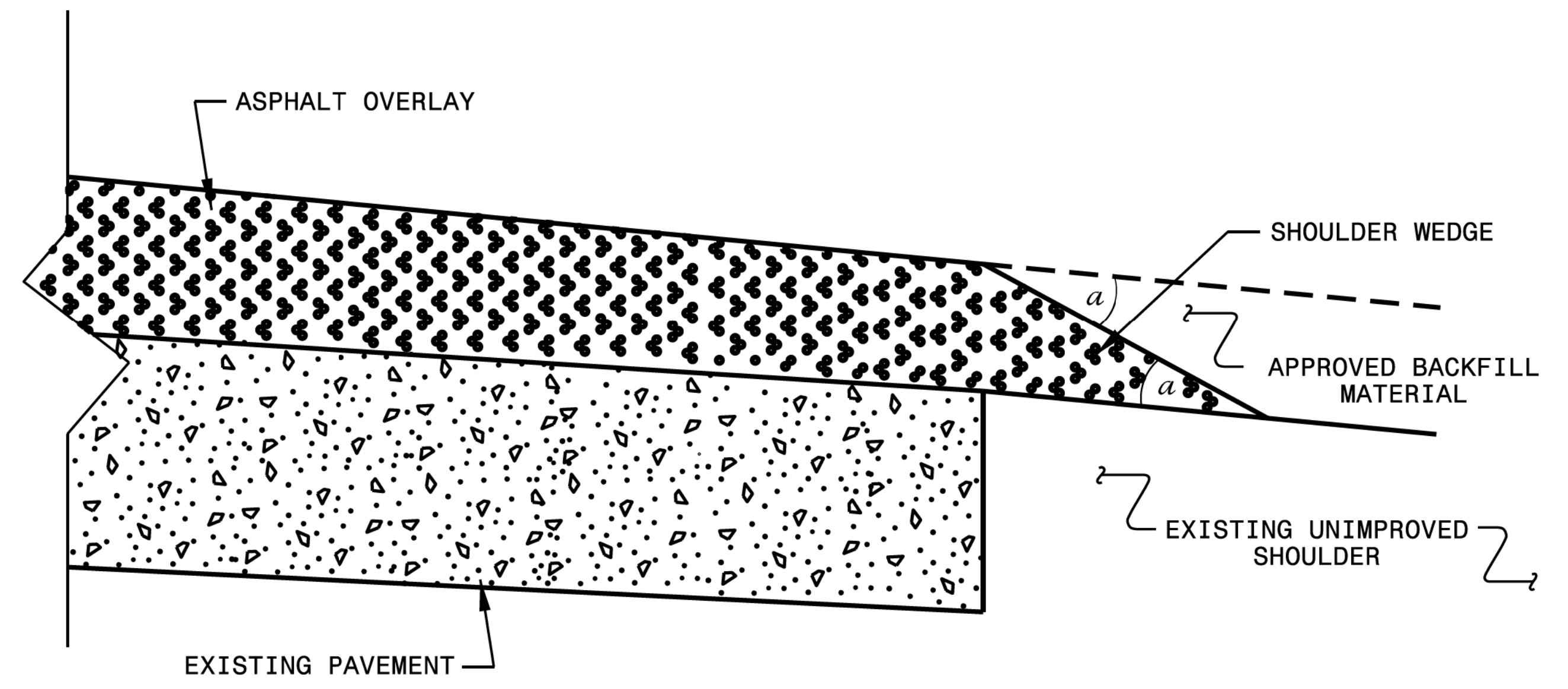
6/2/99

26 JAN 2016 16:07 I-5788 I-95 from mm53 to Harnett, Johnston County Line, Resurface and Bridges, Cumb-Har Co Roadway, I-5788_r.dj_tup.dgn

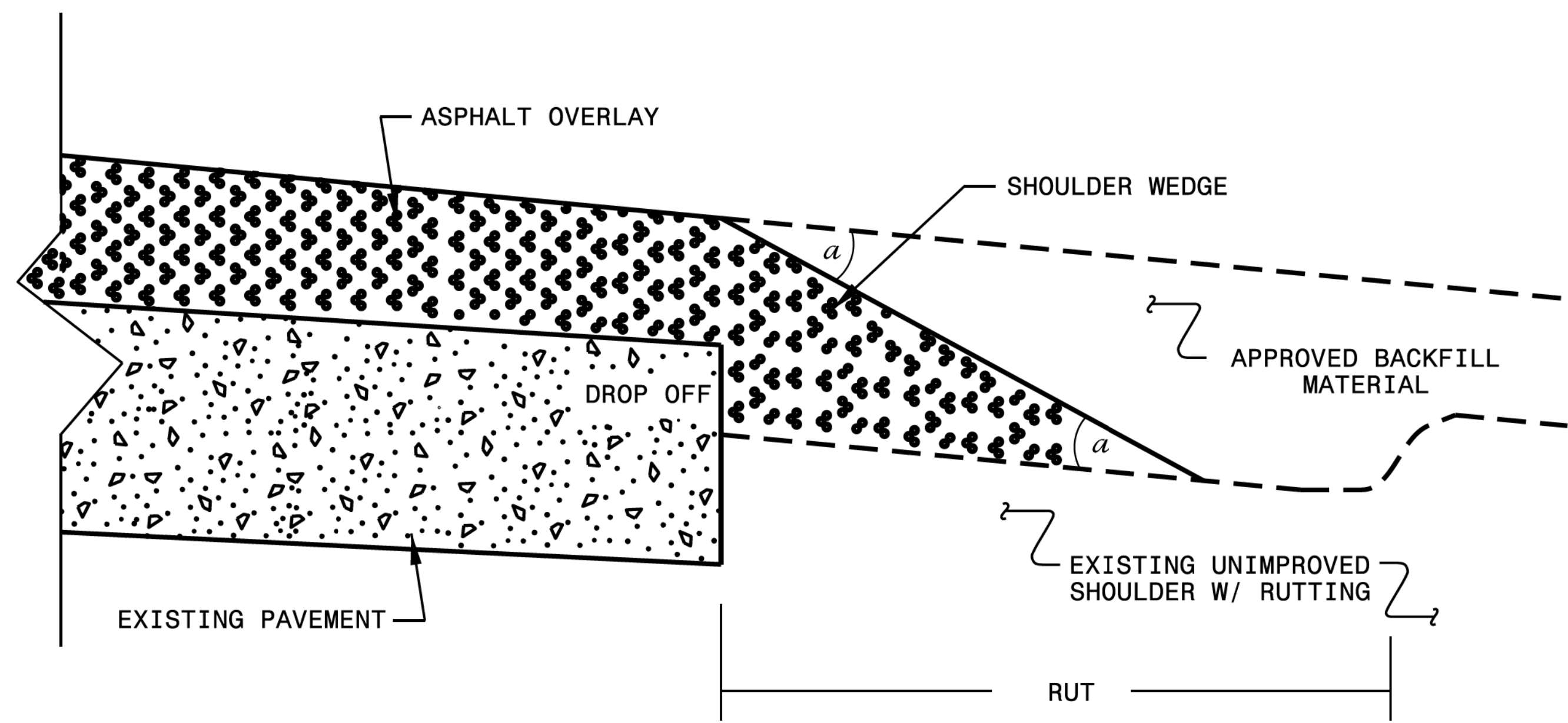
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

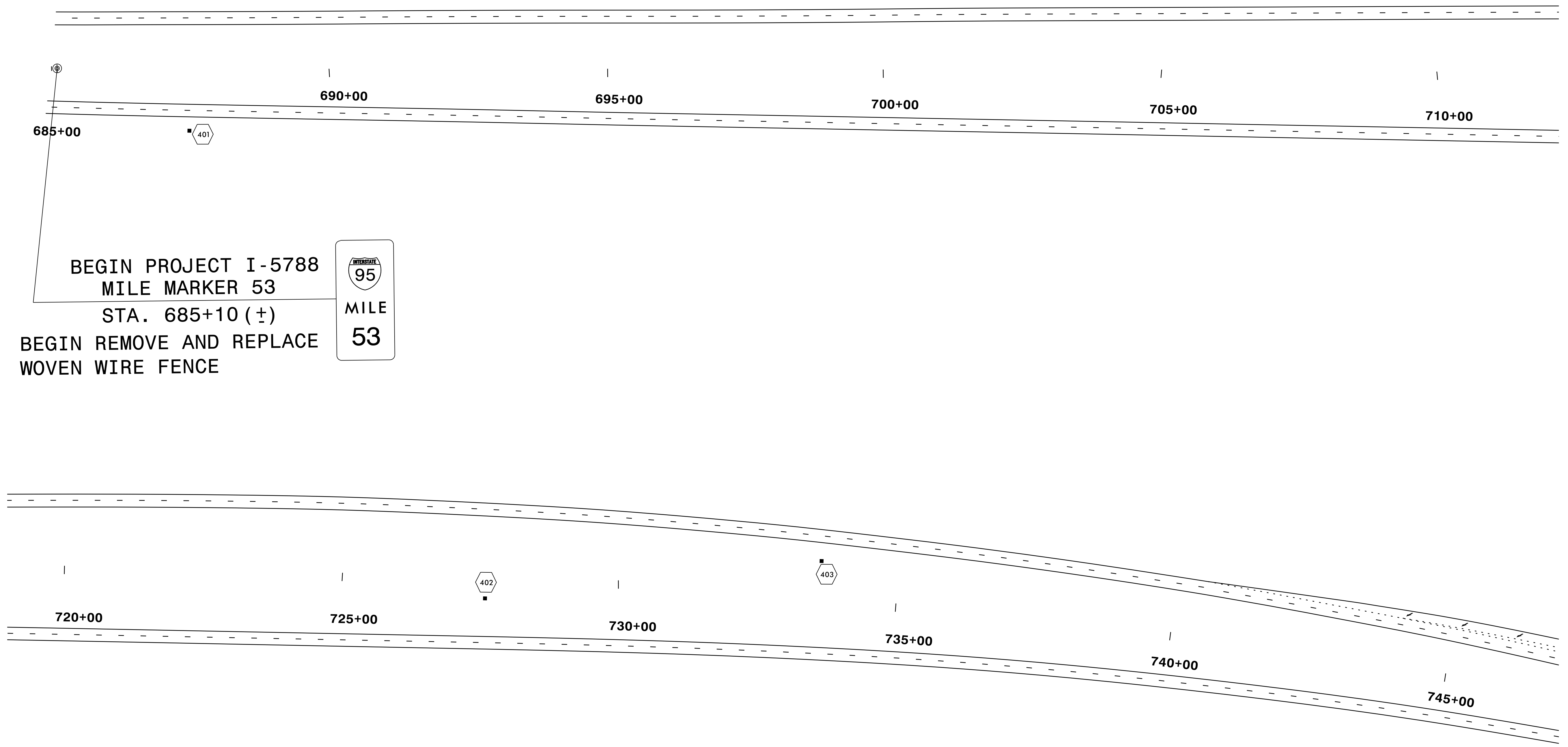
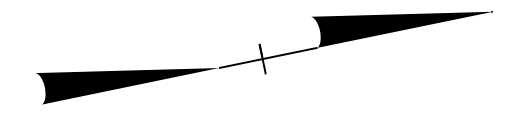
CONTRACT STANDARDS AND DEVELOPMENT UNIT
 10/16/12

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5788	3B-2	

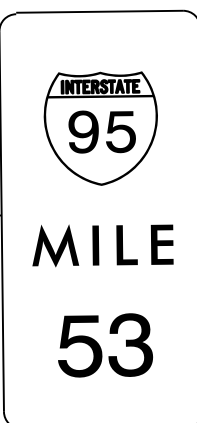
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	ASB TON	CURED IN PLACE (CIPP) (30") LF	SHOULDER RECONSTRUCTION SMI	2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5D TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MILLED RUMBLE STRIPS (ASPHALT CONCRETE) LF	WOVEN WIRE FENCE, 47" FABRIC LF	4" TIMBER FENCE POSTS, 7'-6" LONG EA	5" TIMBER FENCE POSTS, 8'-0" LONG EA	ADDITIONAL BARBED WIRE LF	DEWATERING LS	PORTABLE LIGHTING LS	PAVED TRENCHING (1 CONDUIT, 2") LF	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD SIZE) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF
I-5788	Cumberland Harnett	1	I-95	FROM: MM 53 TO: JOHNSTON COUNTY	1&2	2	MD	NO	NO	24.82	78	13,000	105	120.76	1,330,526	3,000	149,019	8,494	500	524,199	169,200	12,090	4,065	1,000	1	1	10	100	1	1	800	100
TOTAL FOR MAP NO. 1										24.82		13,000	105	120.76	1,330,526	3,000	149,019	8,494	500	524,199	169,200	12,090	4,065	1,000	1	1	10	100	1	1	800	100
TOTAL FOR PROJ NO. I-5788										24.82		13,000	105	120.76	1,330,526	3,000	149,019	8,494	500	524,199	169,200	12,090	4,065	1,000	1	1	10	100	1	1	800	100
GRAND TOTAL										24.82		13,000	105	120.76	1,330,526	3000*	149,019	8,494	500	524,199	169,200	12,090	4,065	1,000	1	1	10	100	1	1	800	100

*Note: Additional Incidental Milling will be needed for structures.



BEGIN PROJECT I-5788
 MILE MARKER 53
 STA. 685+10 (±)
 BEGIN REMOVE AND REPLACE
 WOVEN WIRE FENCE



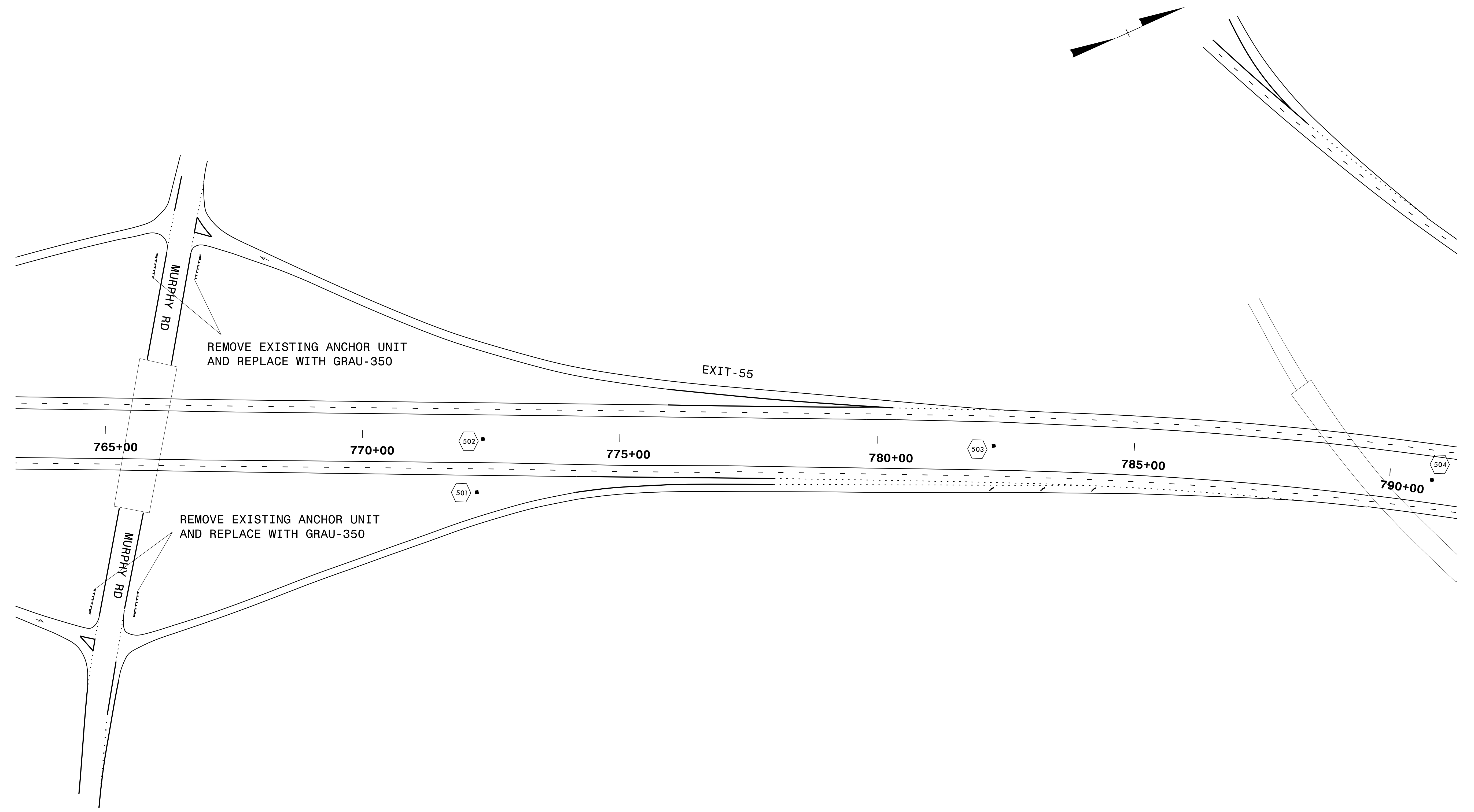
REVISIONS

28 JAN 2016 10:40 I-95 from mm53 to Harnett-Johnston County Line-Resurface and Bridges-Cumb-Har Co\Roadway\I-5788-Rdy_psh_4.dgn
 8/17/99

8/17/99

REVISIONS

I:\DEC-29\5 1726 I-5788 I-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges_Cumb-Har Co\Roadway\I-5788_Rdy_psh_5.dgn

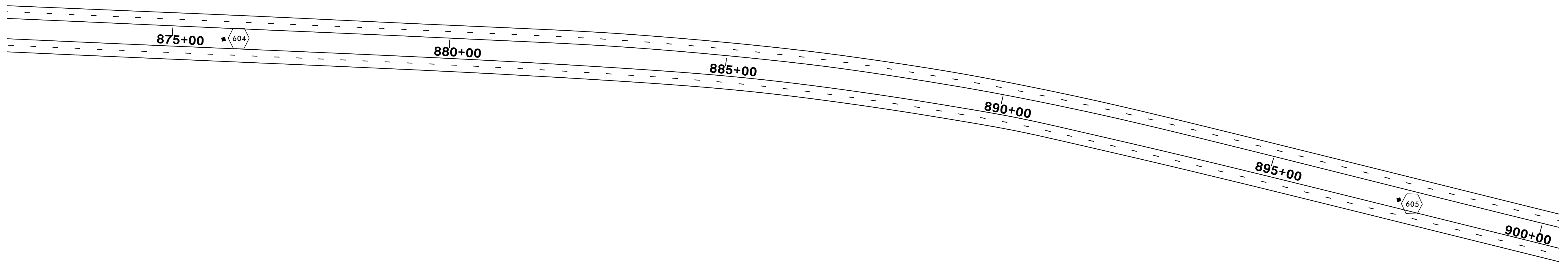
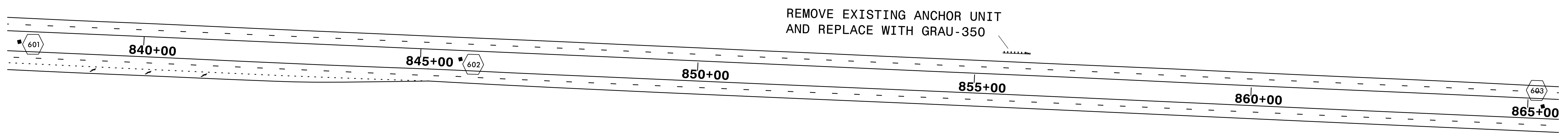
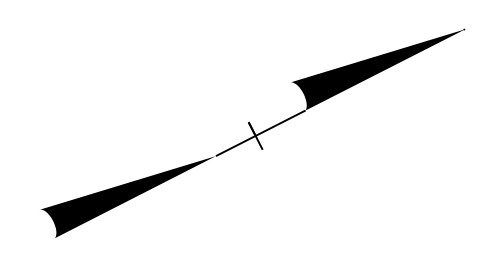


16 DEC 29 5 1726 I-5788 I-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges_Cumb-Har Co\Roadway\I-5788_Rdy_psh_5.dgn

8/17/99

REVISIONS

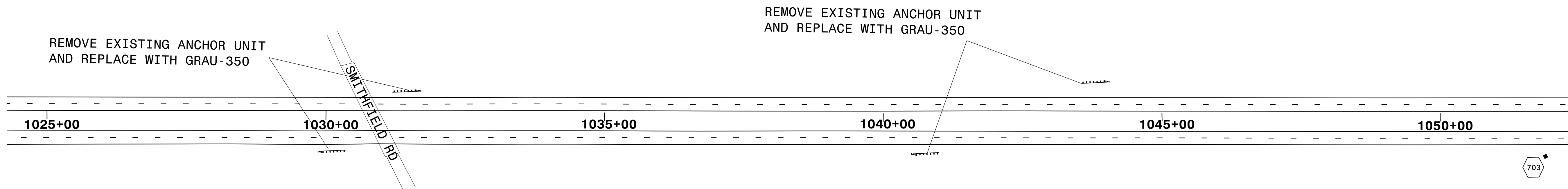
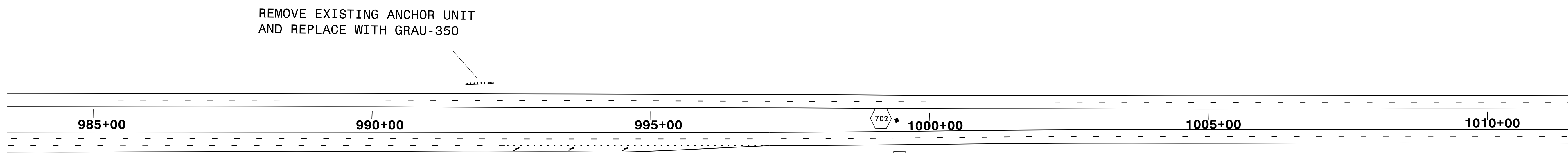
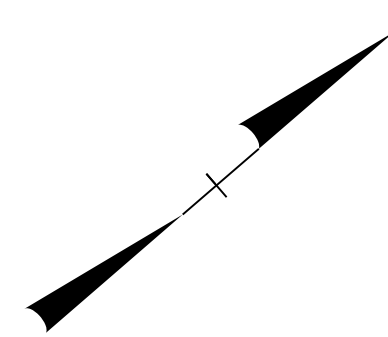
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8/17/99

REVISIONS

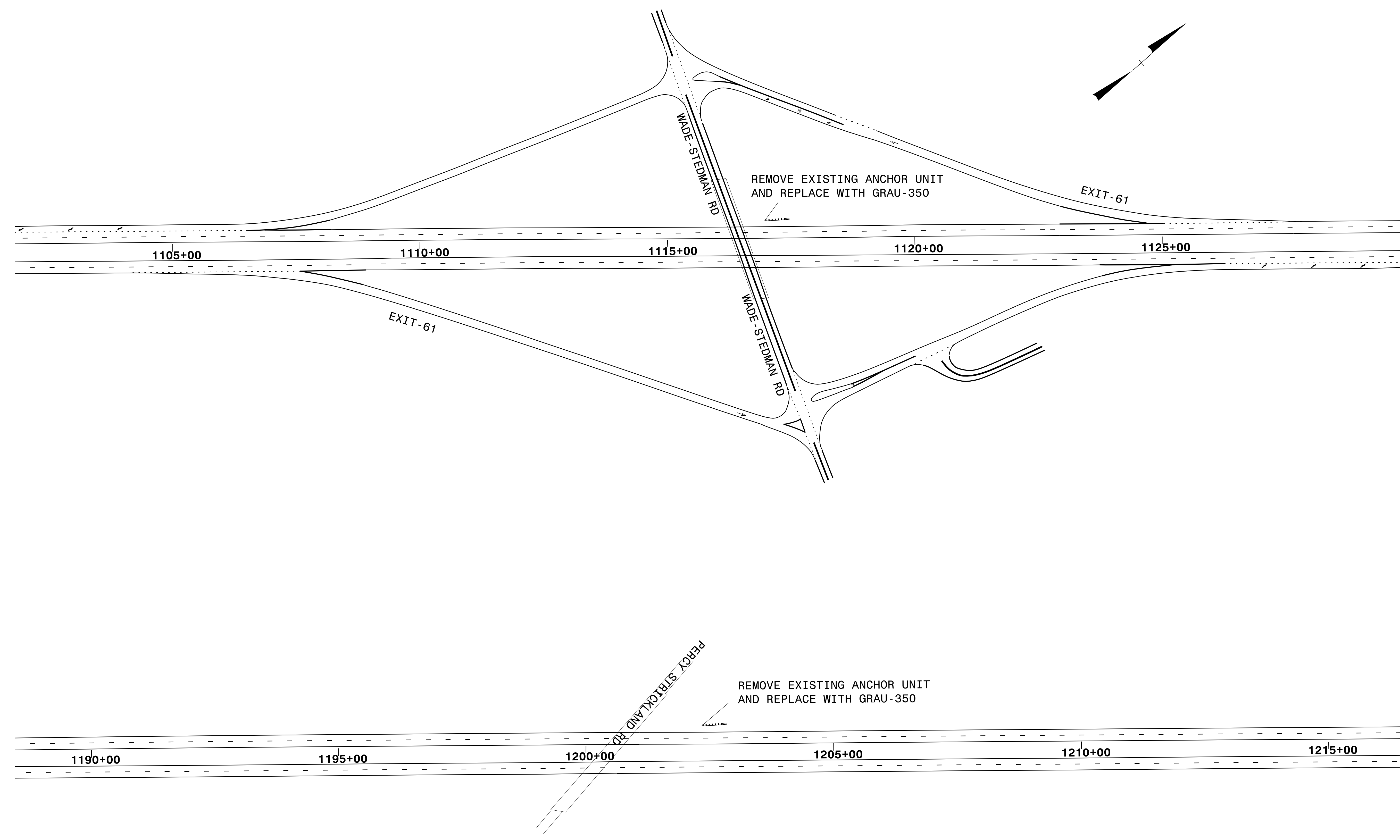
I6-D5C-2915 11z26
 8/17/99 10:58:34
 I-95 from mm53 to Harnett_Johnston County Line_Resurface and Bridges_Cumb-Har Co\Roadway\1-5788.Rdy.psh.7.dgn

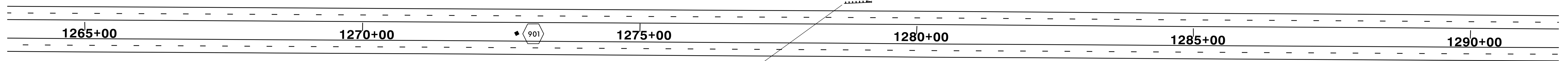
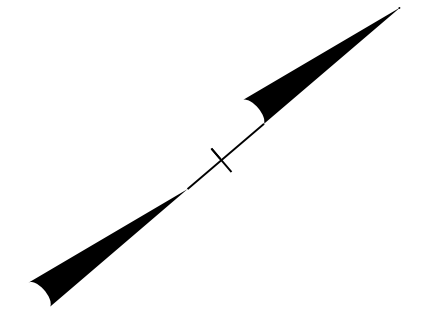


8/17/99

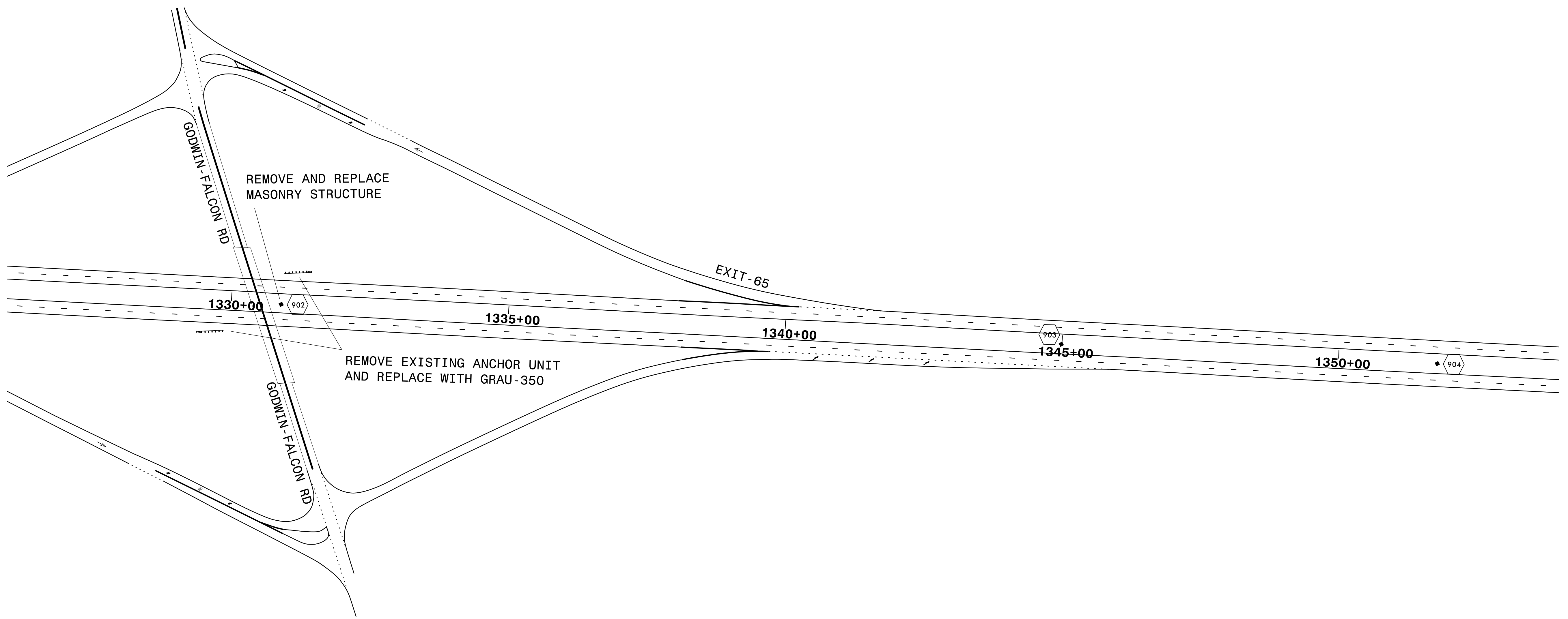
REVISIONS

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REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350



REMOVE AND REPLACE
MASONRY STRUCTURE

REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

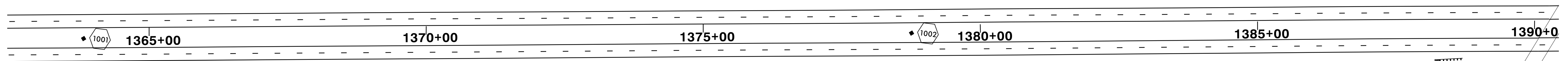
REVISIONS

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 8/17/99

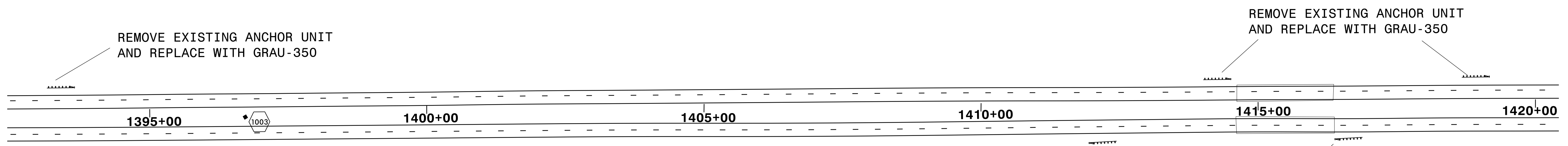
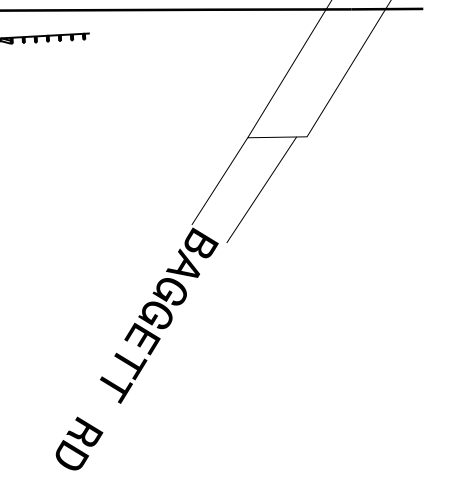
8/17/99

REVISIONS

I6-D5C-2915 11z28 1-5788 I-95 from mm53 to Harnett, Johnston County Line, Resurface and Bridges, Cumb-Har Co \Roadway\1-5788.Rdy.psh.10.dgn



REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350



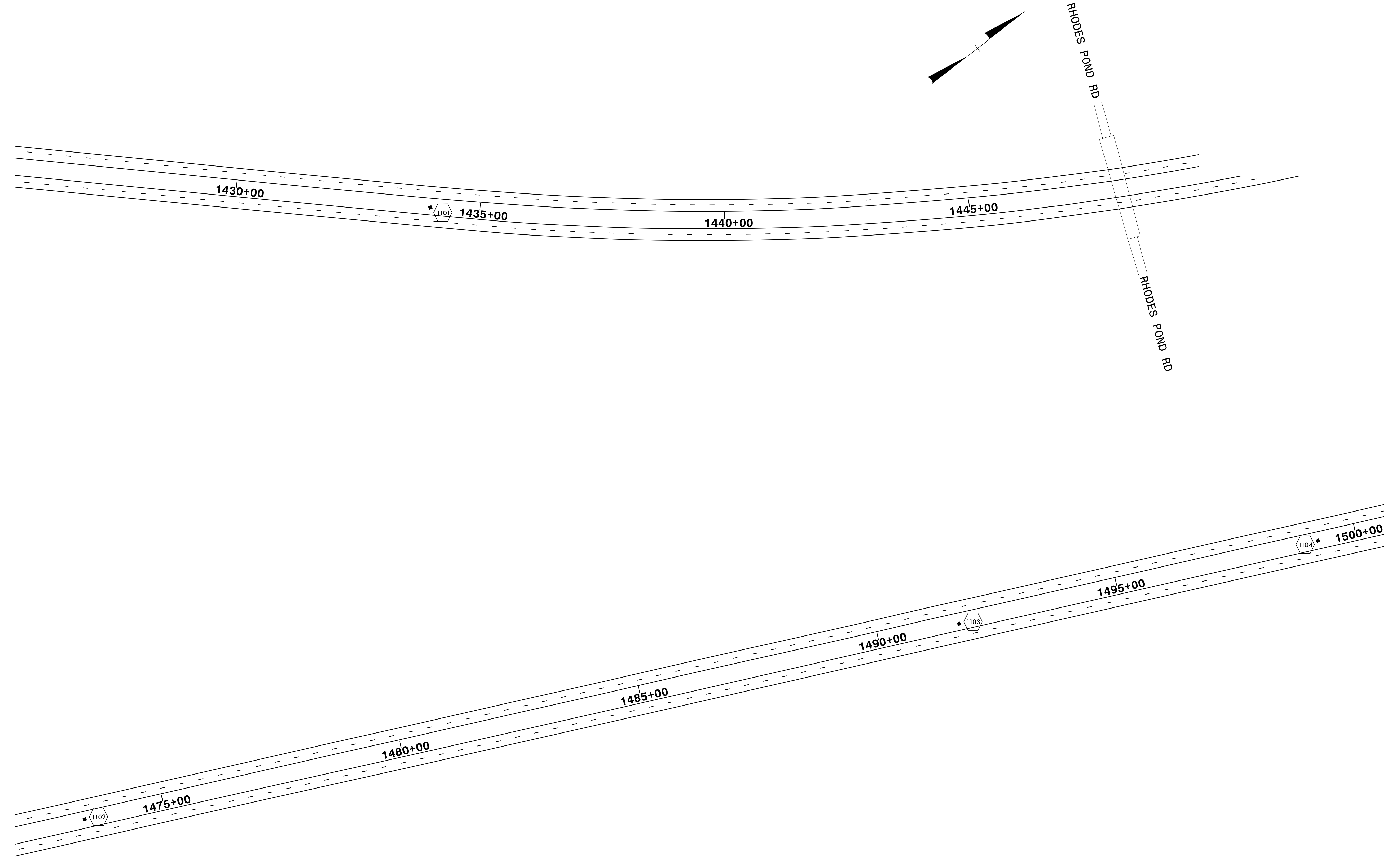
REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

REVISIONS

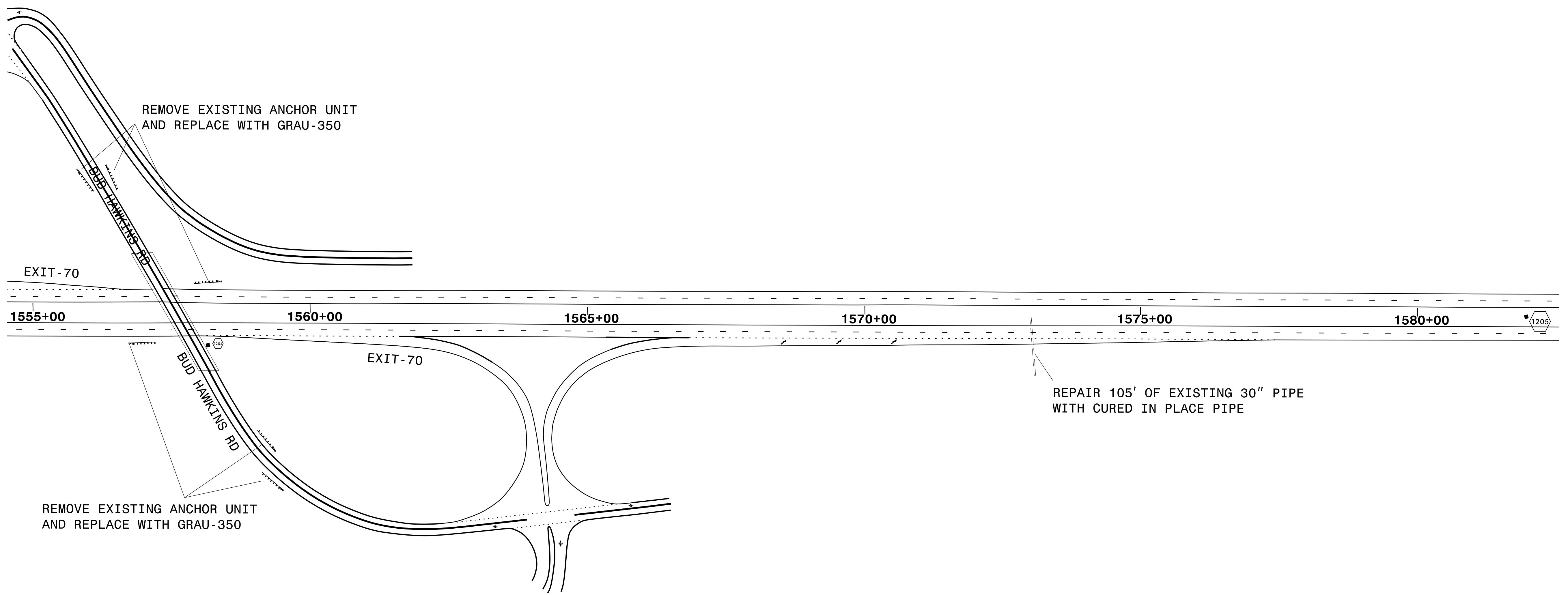
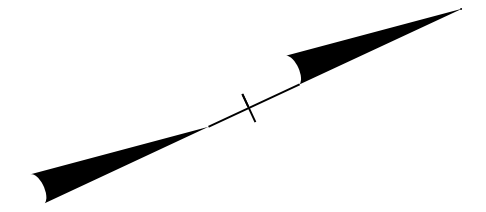
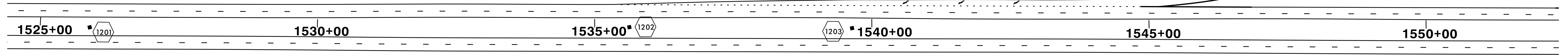
16 DEC 2015 17:30 I:\5788 I-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges\Cumb-Har Co\Roadway\1-5788.Rdy_psh_11.dgn 8/17/99



8/17/99

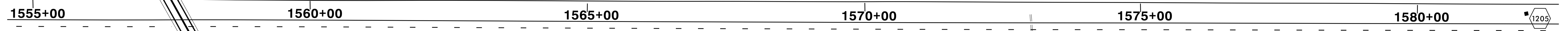
REVISIONS

16-DEC-2015 17:30 I-95 from mm53 to Harnett, Johnston County Line, Resurface and Bridges, Cumb-Har Co \Roadway\1-5788.Rdy.psh.12.dgn



REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

EXIT-70



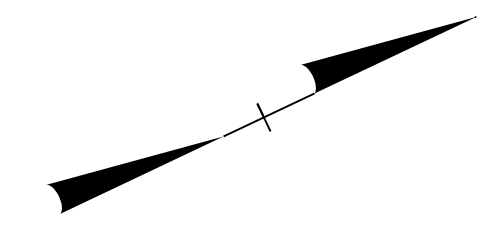
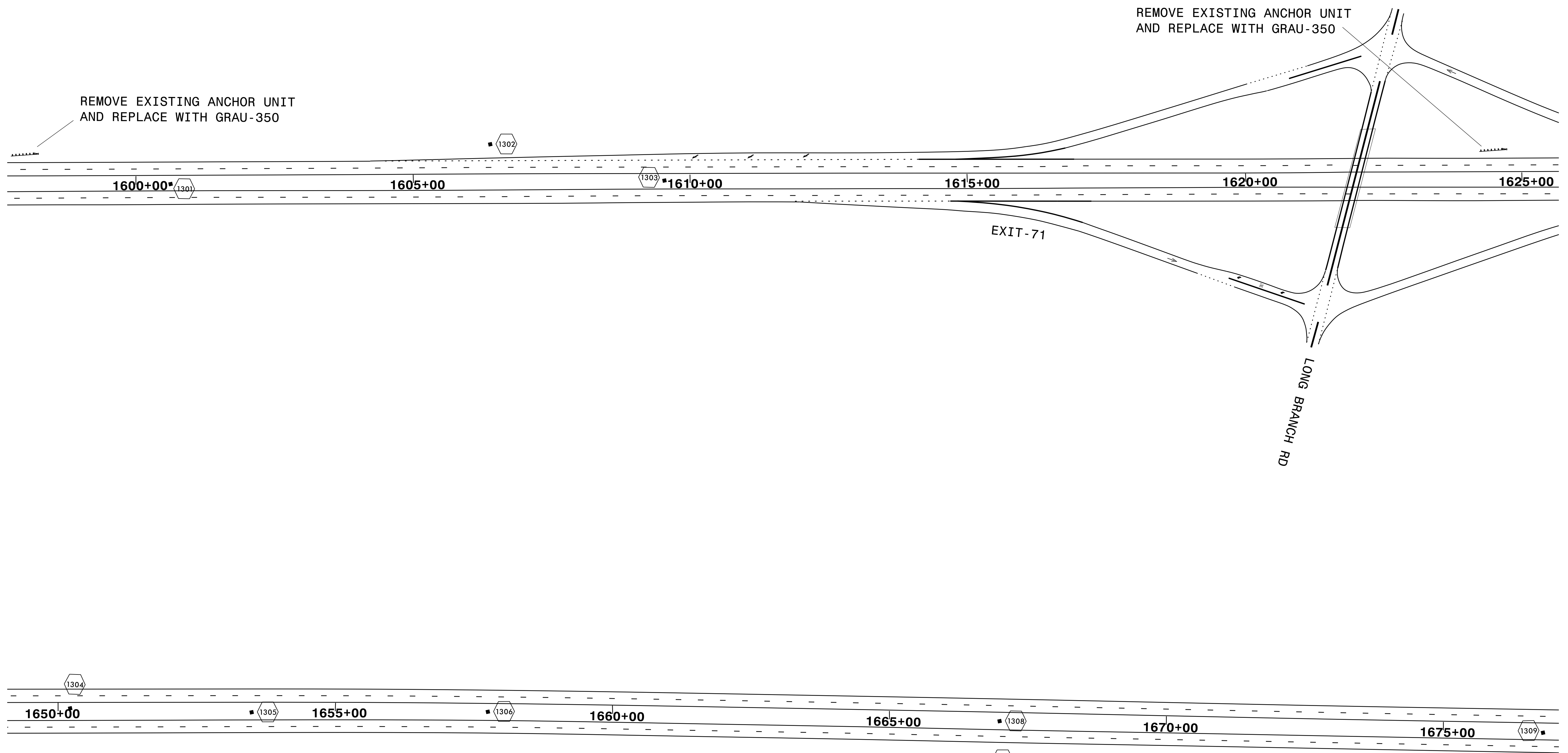
REMOVE EXISTING ANCHOR UNIT
AND REPLACE WITH GRAU-350

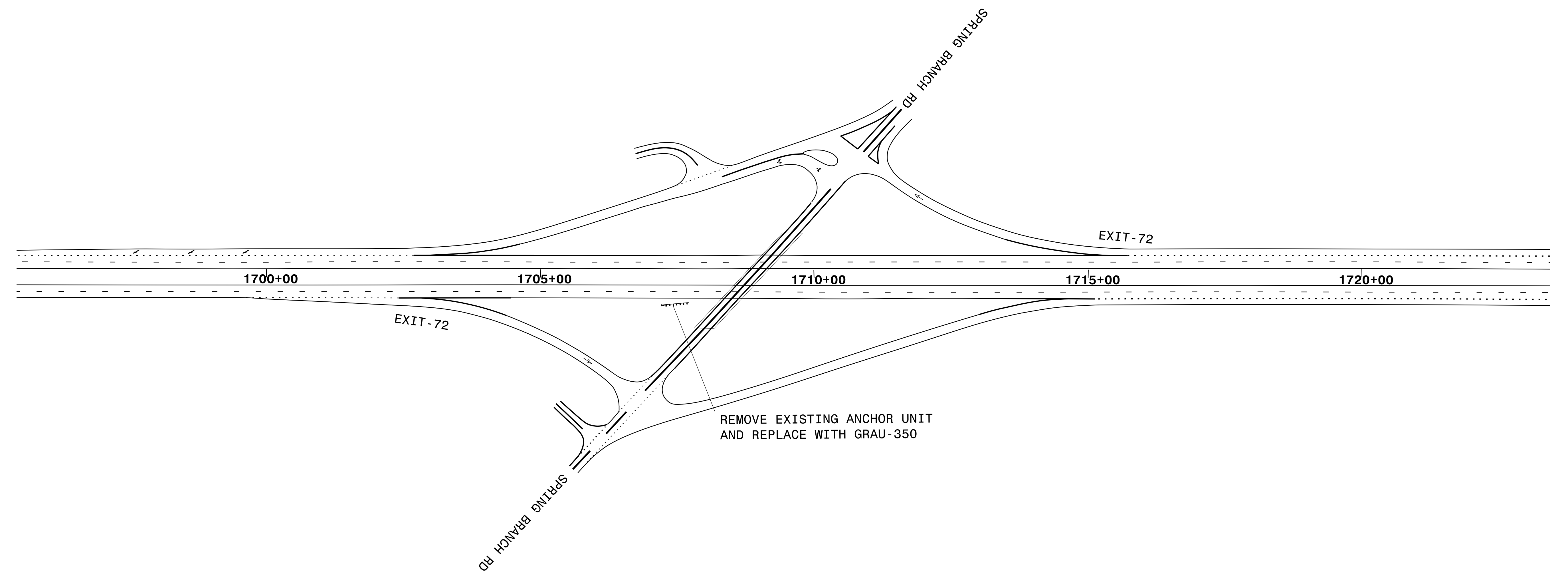
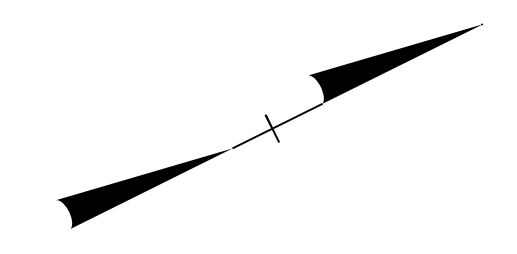
REPAIR 105' OF EXISTING 30" PIPE
WITH CURED IN PLACE PIPE

8/17/99

REVISIONS

I:\6-DEC-2015 17:31 16-DEC-2015 17:31 1-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges\Cumb-Har Co\Roadway\1-5788.Rdy.psh_13.dgn





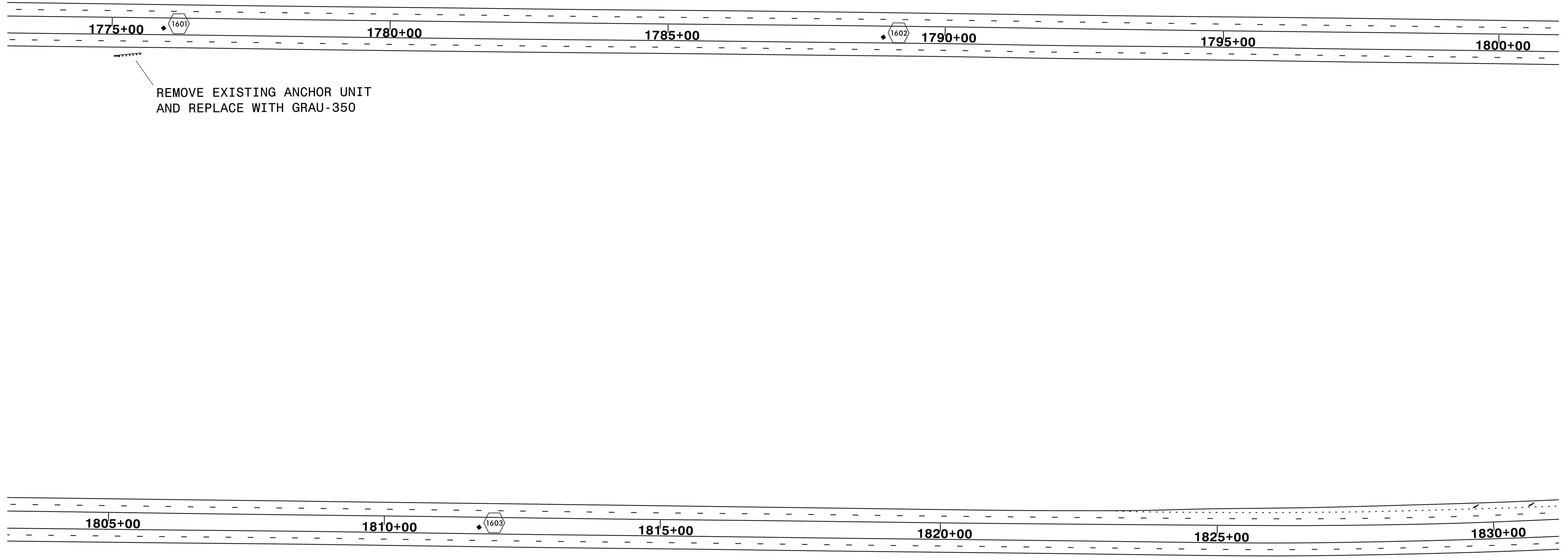
REVISIONS

16-DEC-2015 17:32 I:\5788 I-95 from mm53 to Harnett\Johnston County Line_Resurface and Bridges_Cumb+Har Co\Roadway\I-5788_Rdy_psh_14.dgn 8/17/99

8/17/99

REVISIONS

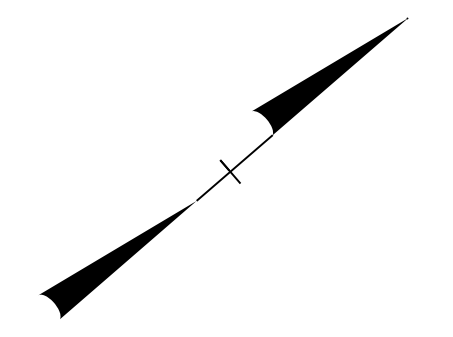
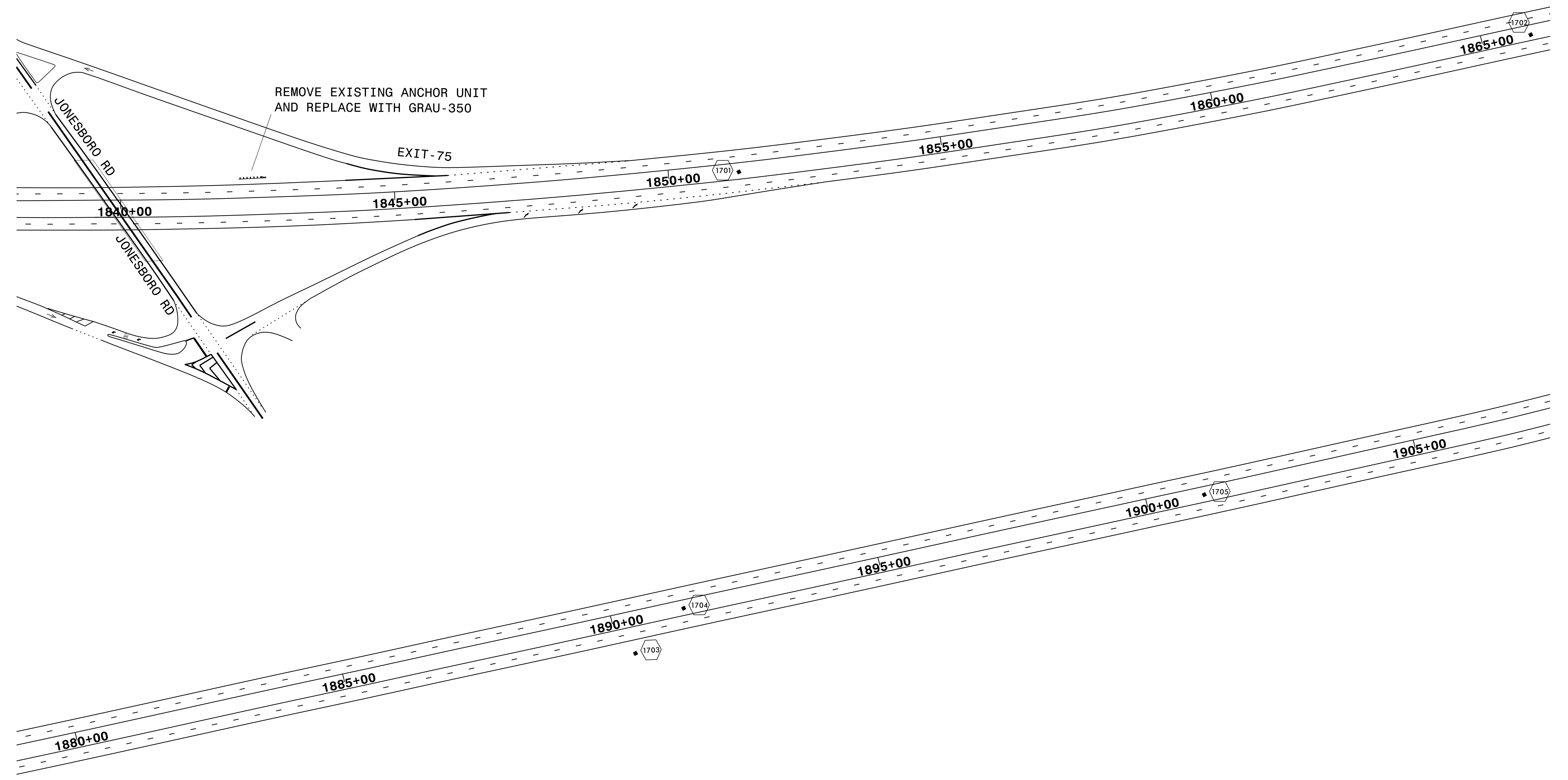
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8/17/99

REVISIONS

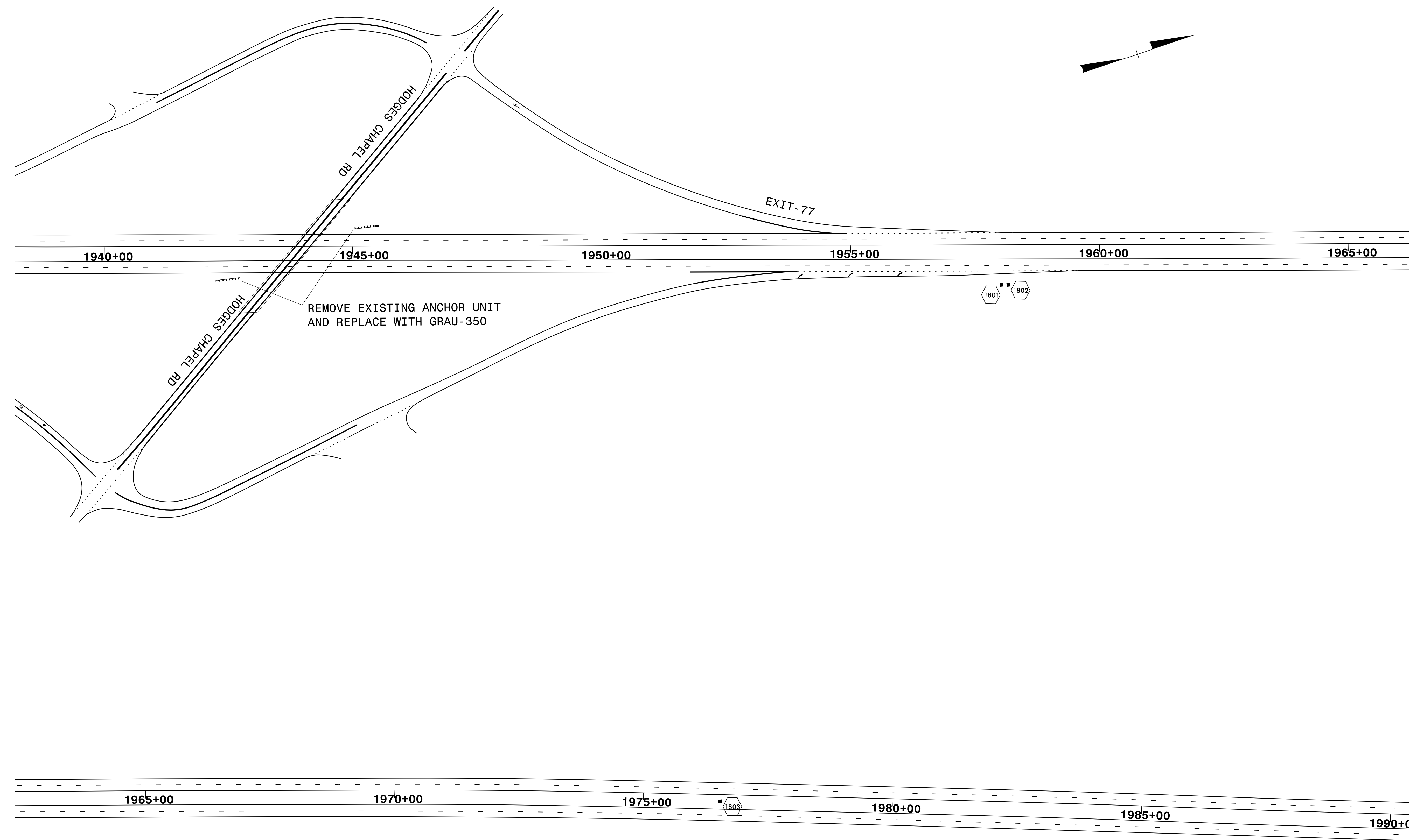
I-5788 I-95 from mm53 to Harnett_Johnston County Line_Resurface and Bridges_Cumb-Har Co \Roadway\I-5788_Rdy_psh_17.dgn

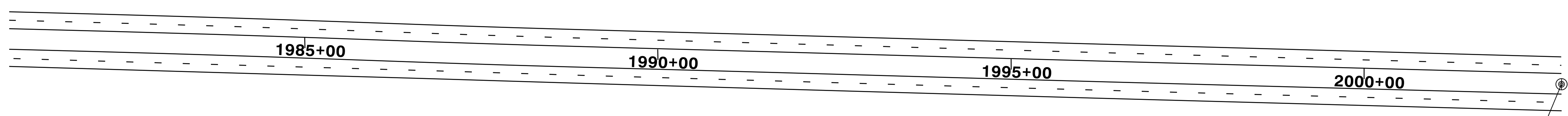
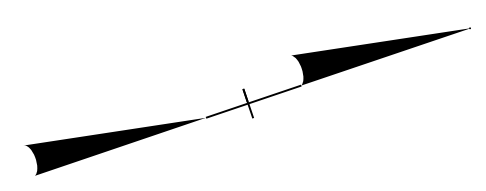


8/17/99

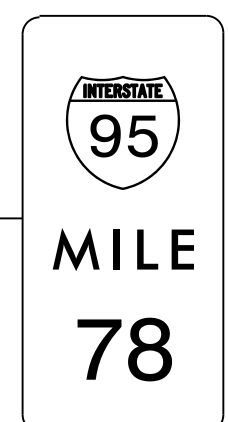
REVISIONS

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END PROJECT I-5788
 MILE MARKER 78
 STA. 2002+80 (±)



END REMOVE AND REPLACE
 WOVEN WIRE FENCE

REVISIONS

28 JAN 2016 10:48 I-95 from mm53 to Harnett_Johnston County Line_Resurface and Bridges_Cumb-Har Co\Roadway\I-5788.Rdy.psh_19.dgn 8/17/99