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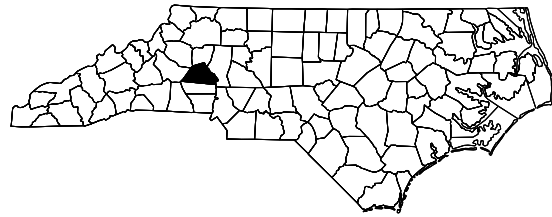
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with their signature on that page.**

**This file or an individual page
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CATAWBA COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP-5500D / BP-5500E	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50070.1.1		P.E.	
50070.3.4	BRNHP-040-2(169)123	CONST.	
50070.1.1		P.E.	
50070.3.5	BRNHP-040-2(170)131	CONST.	



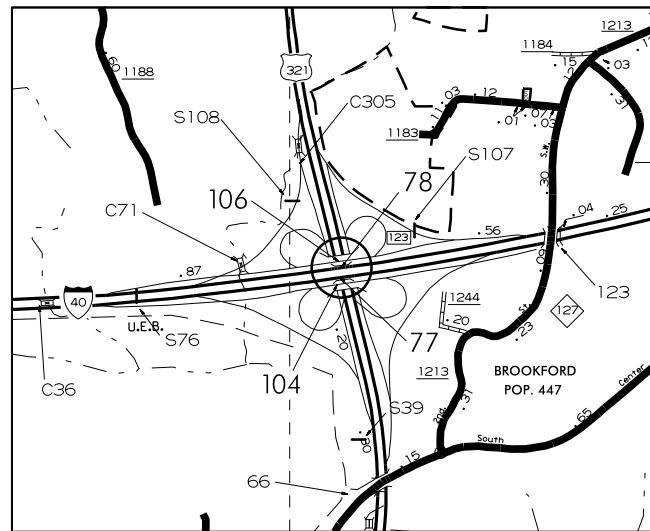
PART 1 - BP-5500D
LOCATION:

CATAWBA COUNTY:

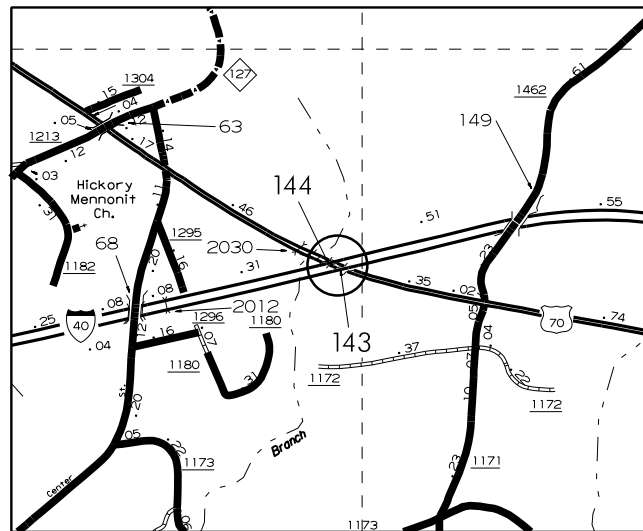
- BRIDGE #77 ON INTERSTATE 40 EAST BOUND OVER US 321**
- BRIDGE #78 ON INTERSTATE 40 WEST BOUND OVER US 321**
- BRIDGE #104 ON INTERSTATE 40 EAST BOUND COLLECTOR OVER US 321**
- BRIDGE #106 ON INTERSTATE 40 WEST BOUND COLLECTOR OVER US 321**
- BRIDGE #143 ON INTERSTATE 40 EAST BOUND OVER US 70**
- BRIDGE #144 ON INTERSTATE 40 WEST BOUND OVER US 70**
- BRIDGE #171 ON INTERSTATE 40 EAST BOUND OVER SR 1484 (COUNTY HOME ROAD)**
- BRIDGE #172 ON INTERSTATE 40 WEST BOUND OVER SR 1484 (COUNTY HOME ROAD)**

TYPE OF WORK:

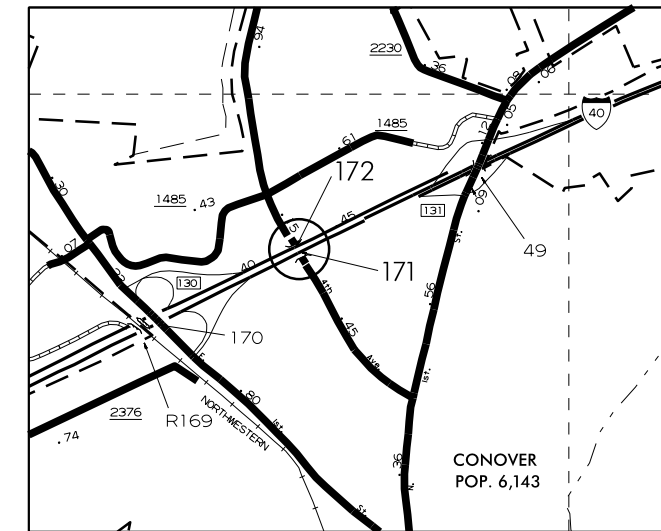
BRIDGE PRESERVATION - PAINTING OF EXISTING BRIDGE STRUCTURES.



VICINITY MAP - CATAWBA CO.



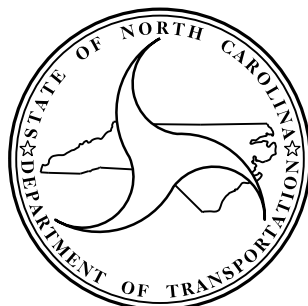
VICINITY MAP - CATAWBA CO.



VICINITY MAP - CATAWBA CO.



CONTRACT: C203822 PROJECT: BP-5500D&E



DESIGN DATA

CATAWBA COUNTY			
#77 ADT 2013 =21,500	#78 ADT 2013 =21,500		
#104 ADT 2013 =8,000	#106 ADT 2013 =8,000		
#143 ADT 2011 =31,500	#144 ADT 2011 =31,500		
#171 ADT 2012 =24,000	#172 ADT 2012 =24,000		

PROJECT LENGTH

CATAWBA COUNTY			
- #77 = 0.072 MILE	- #78 = 0.072 MILE		
- #104 = 0.073 MILE	- #106 = 0.070 MILE		
- #143 = 0.066 MILE	- #144 = 0.066 MILE		
- #171 = 0.026 MILE	- #172 = 0.030 MILE		

Prepared in the Office of:
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT - PRESERVATION & REPAIR GROUP
1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610

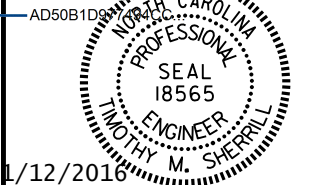
DOUGLAS R. CALHOUN, P.E.
PROJECT ENGINEER

2012 STANDARD SPECIFICATIONS

LETTING DATE:
APRIL 19, 2016

DocuSigned by:

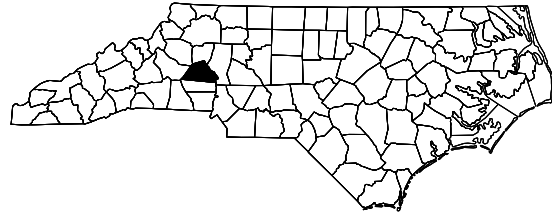
Timothy M. Sherrill



L/12/2016
TIMOTHY M. SHERRILL, P.E.
PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CATAWBA COUNTY



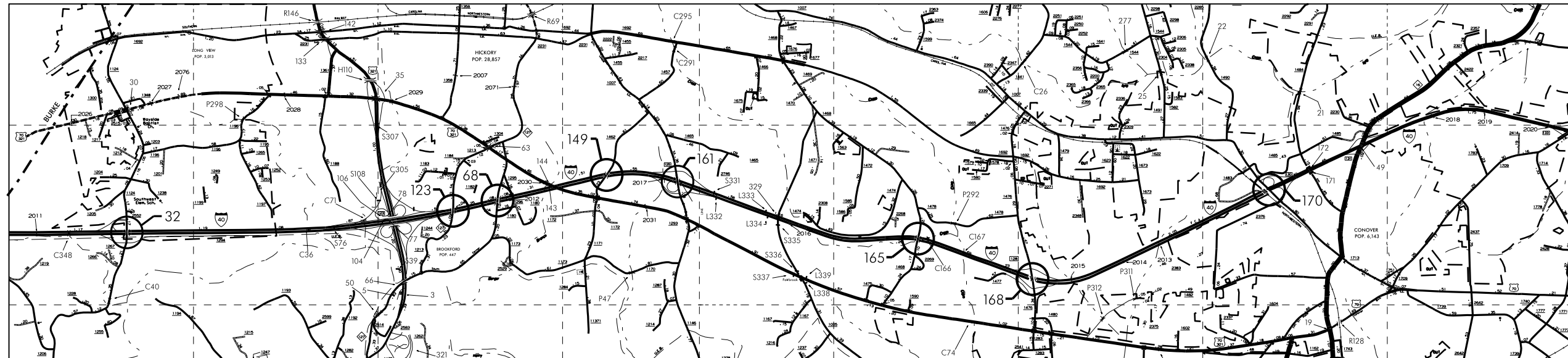
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP-5500D / BP-5500E	1A	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50070.1.1		P.E.	
50070.3.4	BRNHP-040-2(169)123	CONST.	
50070.1.1		P.E.	
50070.3.5	BRNHP-040-2(170)131	CONST.	

PART 2 - BP-5500E
LOCATION:

CATAWBA COUNTY:

- BRIDGE #32 ON SR 1124 (OLD SHELBY ROAD) OVER INTERSTATE 40**
- BRIDGE #68 ON SR 2959 (SOUTH CENTER STREET) OVER INTERSTATE 40**
- BRIDGE #123 ON NC 127 (2nd STREET SW) OVER INTERSTATE 40**
- BRIDGE #149 ON SR 1462 (10th AVENUE DR. SE) OVER INTERSTATE 40**
- BRIDGE #161 ON SR 1007 (LENOIR RHYNE BLVD.) OVER INTERSTATE 40**
- BRIDGE #165 ON SR 1468 (21st STREET DR. SE) OVER INTERSTATE 40**
- BRIDGE #168 ON SR 1476 (FAIRGROVE CHURCH ROAD) OVER INTERSTATE 40**
- BRIDGE #170 ON SR 1007 (1st STREET W) OVER INTERSTATE 40**

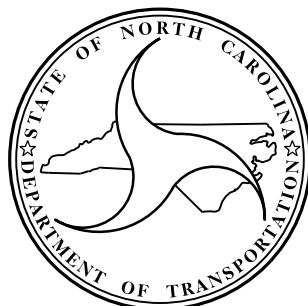
TYPE OF WORK: BRIDGE PRESERVATION - PAINTING OF EXISTING BRIDGE STRUCTURES.



VICINITY MAP - CATAWBA CO.

PROJECT: BP-5500D&E

CONTRACT: C203822



DESIGN DATA

CATAWBA COUNTY	
#32 ADT 2013 = 4,250	#123 ADT 2011 = 10,350
#68 ADT 2013 = 3,800	#149 ADT 2009 = 2,100
#161 ADT 2013 = 33,000	#165 ADT 2011 = 4,300
#168 ADT 2013 = 18,000	#170 ADT 2011 = 14,000

PROJECT LENGTH

CATAWBA COUNTY	
- #32 = 0.051 MILE	- #123 = 0.063 MILE
- #68 = 0.051 MILE	- #149 = 0.072 MILE
- #161 = 0.056 MILE	- #165 = 0.047 MILE
- #168 = 0.055 MILE	- #170 = 0.051 MILE

Prepared in the Office of:
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT - PRESERVATION & REPAIR GROUP
1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610

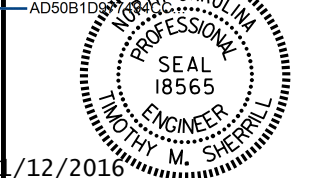
DOUGLAS R. CALHOUN, P.E.
PROJECT ENGINEER

2012 STANDARD SPECIFICATIONS

LETTING DATE:
APRIL 19, 2016

DocuSigned by:

Timothy M. Sherrill
AD50B1D...

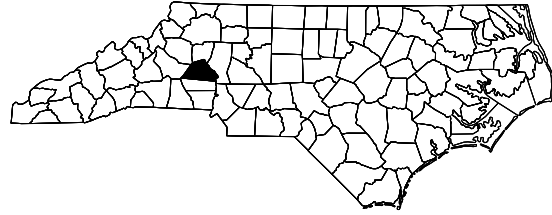


/12/2016

TIMOTHY M. SHERRILL, P.E.
PROJECT DESIGN ENGINEER

PROJECT: BP-5500D&E

CONTRACT: C203822



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CATAWBA COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP-5500D / BP-5500E	1B	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50070.1.1		P.E.	
50070.3.4	BRNHP-040-2(169)123	CONST.	
50070.1.1		P.E.	
50070.3.5	BRNHP-040-2(170)131	CONST.	

PART 1 - BP-5500D

- BRIDGE #77 ON INTERSTATE 40 EAST BOUND OVER US 321
- BRIDGE #78 ON INTERSTATE 40 WEST BOUND OVER US 321
- BRIDGE #104 ON INTERSTATE 40 EAST BOUND COLLECTOR OVER US 321
- BRIDGE #106 ON INTERSTATE 40 WEST BOUND COLLECTOR OVER US 321
- BRIDGE #143 ON INTERSTATE 40 EAST BOUND OVER US 70
- BRIDGE #144 ON INTERSTATE 40 WEST BOUND OVER US 70
- BRIDGE #171 ON INTERSTATE 40 EAST BOUND OVER SR 1484 (COUNTY HOME ROAD)
- BRIDGE #172 ON INTERSTATE 40 WEST BOUND OVER SR 1484 (COUNTY HOME ROAD)

PART 2 - BP-5500E

- BRIDGE #32 ON SR 1124 (OLD SHELBY ROAD) OVER INTERSTATE 40
- BRIDGE #68 ON SR 2959 (SOUTH CENTER STREET) OVER INTERSTATE 40
- BRIDGE #123 ON NC 127 (2nd STREET SW) OVER INTERSTATE 40
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- BRIDGE #165 ON SR 1468 (21st STREET DR. SE) OVER INTERSTATE 40
- BRIDGE #168 ON SR 1476 (FAIRGROVE CHURCH ROAD) OVER INTERSTATE 40
- BRIDGE #170 ON SR 1007 (1st STREET W) OVER INTERSTATE 40

TYPE OF WORK: BRIDGE PRESERVATION - PAINTING OF EXISTING BRIDGE STRUCTURES.

INDEX OF SHEETS

1-1A

1B

PART 1 - BP-5500D

SI - S12

SN

TMP-1 THROUGH TMP-10

PART 2 - BP-5500E

SI - S17

SN

TMP-1 THROUGH TMP-11

COMBINED TITLE SHEETS

INDEX OF SHEETS

STRUCTURAL PLANS

STANDARD NOTES

TRAFFIC MANAGEMENT PLANS

STRUCTURAL PLANS

STANDARD NOTES

TRAFFIC MANAGEMENT PLANS

TOTAL BILL OF MATERIAL			
CATAWBA COUNTY BRIDGE NO.	POLLUTION CONTROL	CLEANING AND REPAINTING OF BRIDGE #___	PAINTING CONTAINMENT FOR BRIDGE #___
	LUMP SUM	LUMP SUM	LUMP SUM
77	LUMP SUM	LUMP SUM	LUMP SUM
78	LUMP SUM	LUMP SUM	LUMP SUM
104	LUMP SUM	LUMP SUM	LUMP SUM
106	LUMP SUM	LUMP SUM	LUMP SUM
143	LUMP SUM	LUMP SUM	LUMP SUM
144	LUMP SUM	LUMP SUM	LUMP SUM
171	LUMP SUM	LUMP SUM	LUMP SUM
172	LUMP SUM	LUMP SUM	LUMP SUM

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 77, 78, 104, 106,
143, 144, 171, 172

DocuSigned by:
John A. Yannaccone



1/12/2018

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 TOTAL
 BILL OF MATERIAL

DRAWN BY : R. PUTEK DATE : 08/15
 CHECKED BY : J. YANNACCONI DATE : 08/15

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S-1
2			4			12



LOCATION SKETCH

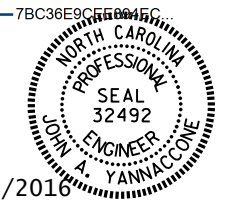
INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION, ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

NOTES

- EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.
- FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.
- FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.
- FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 77, 78, 104, 106

DocuSigned by:
John A. Yannaccone

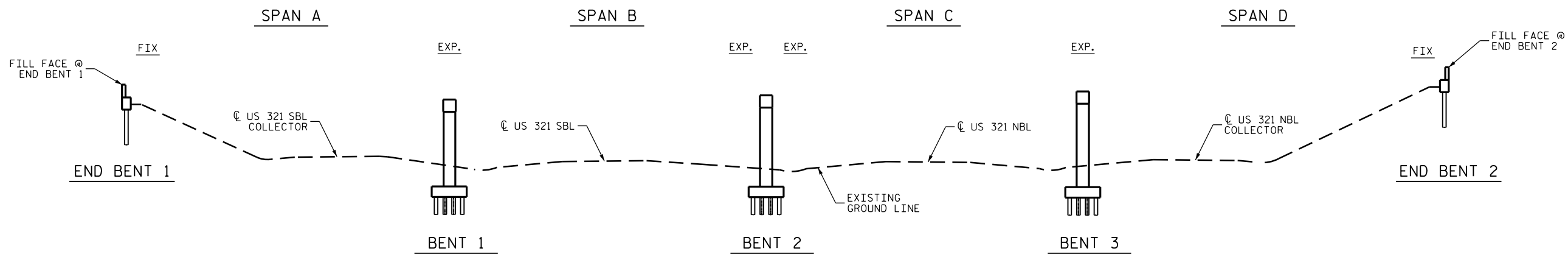


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGES ON
 I-40 EAST & WEST
 OVER US 321

DRAWN BY : R. PUTEK DATE : 07/15
 CHECKED BY : J. YANNACCONE DATE : 07/15

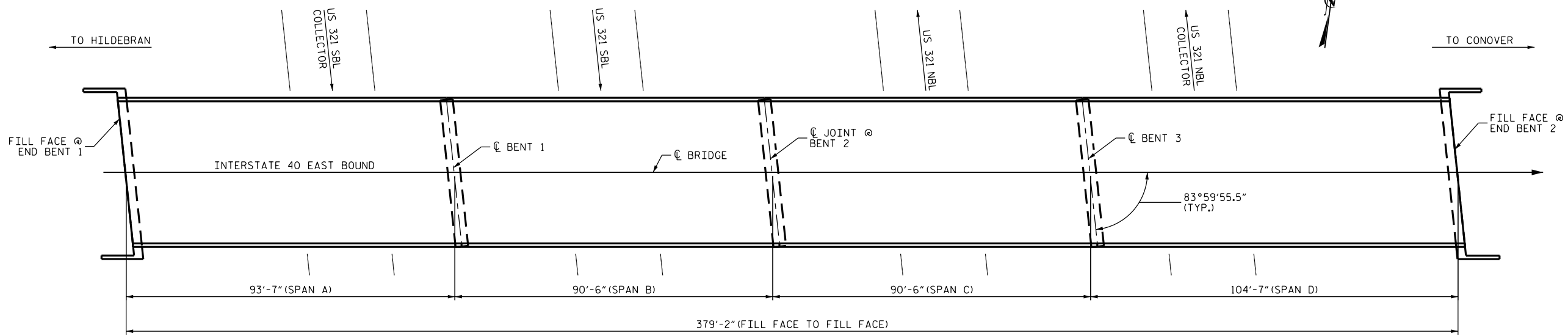
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			12

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED



SECTION ALONG CL OF ROADWAY

NOTE:
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 02/23/2015.
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



PLAN

SCOPE OF WORK

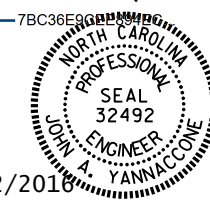
- CLEAN AND PAINT STEEL GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 77

SHEET 2 OF 5

DocuSigned by:

John A. Yannaccone



1/12/2018

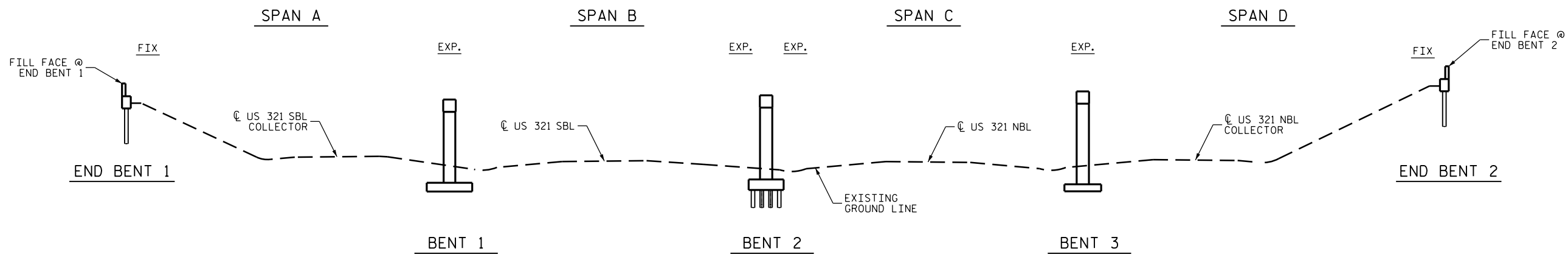
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE ON
 I-40 EAST BOUND
 OVER US 321

DRAWN BY : R.PUTEK DATE : 07/15
 CHECKED BY : J.YANNACCONE DATE : 07/15

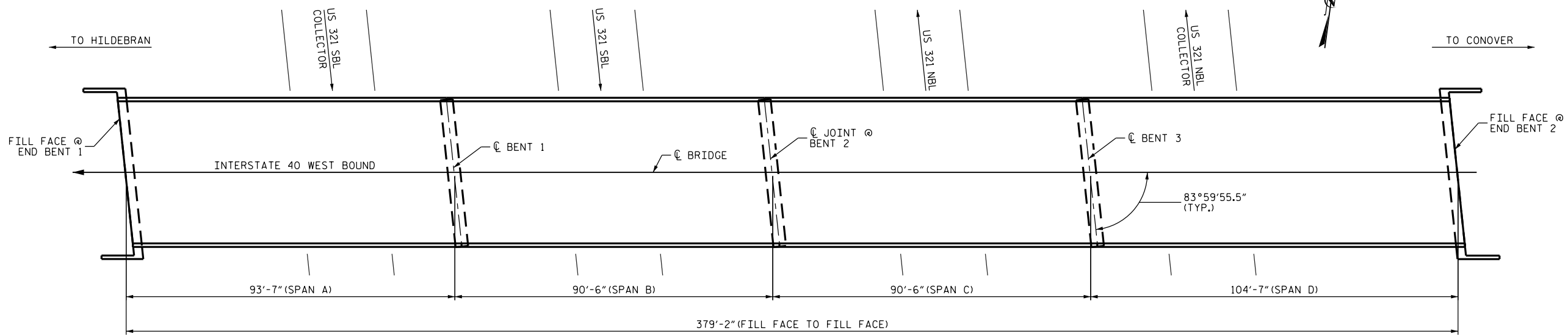
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-3
2			4			TOTAL SHEETS 12



SECTION ALONG CL OF ROADWAY

NOTE:
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PLAN

SCOPE OF WORK

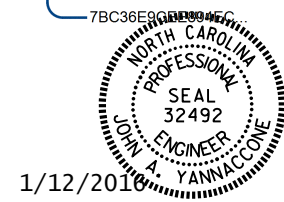
- CLEAN AND PAINT STEEL GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 78

DocuSigned by:

John A. Yannaccone

SHEET 3 OF 5

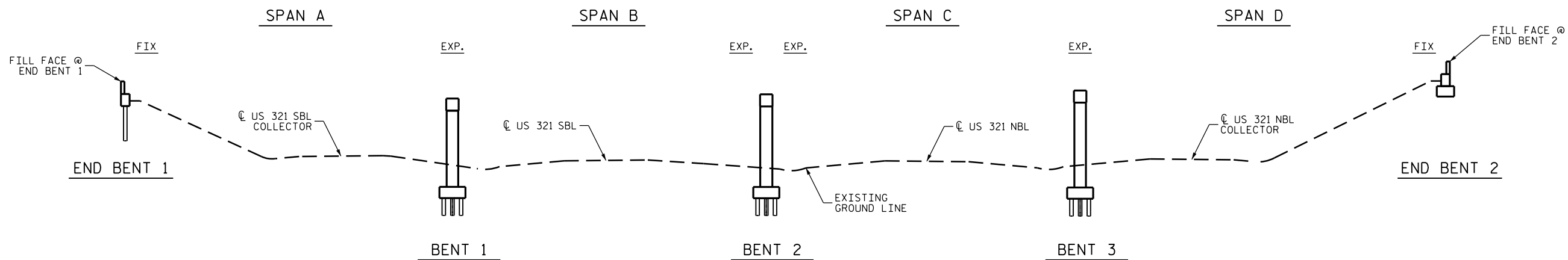


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGE ON
 I-40 WEST BOUND
 OVER US 321

DRAWN BY : R. PUTEK DATE : 07/15
 CHECKED BY : J. YANNACCONE DATE : 07/15

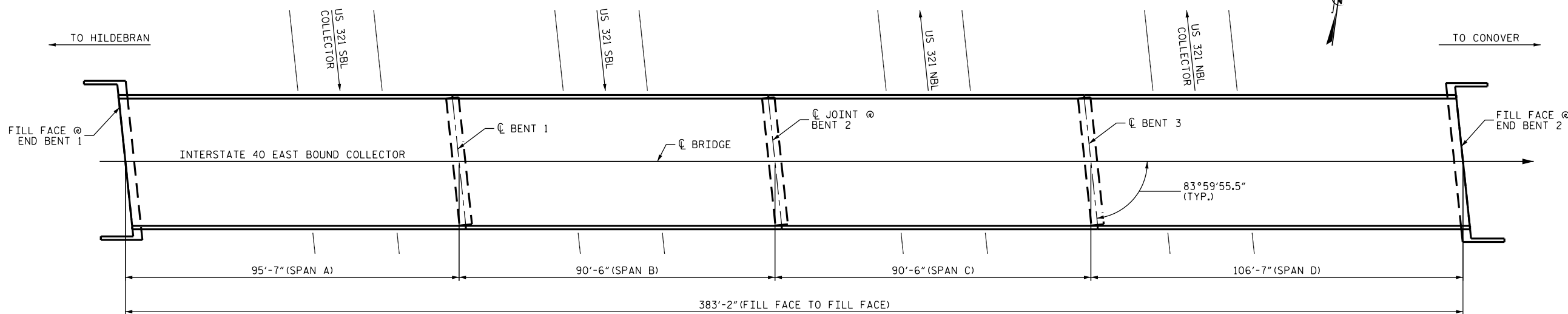
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S-4
2			4			TOTAL SHEETS
						12



SECTION ALONG CL OF ROADWAY

NOTE:
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PLAN

SCOPE OF WORK

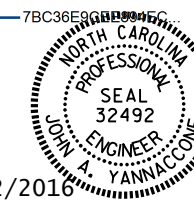
- CLEAN AND PAINT STEEL GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 104

SHEET 4 OF 5

DocuSigned by:

John A. Yannaccone



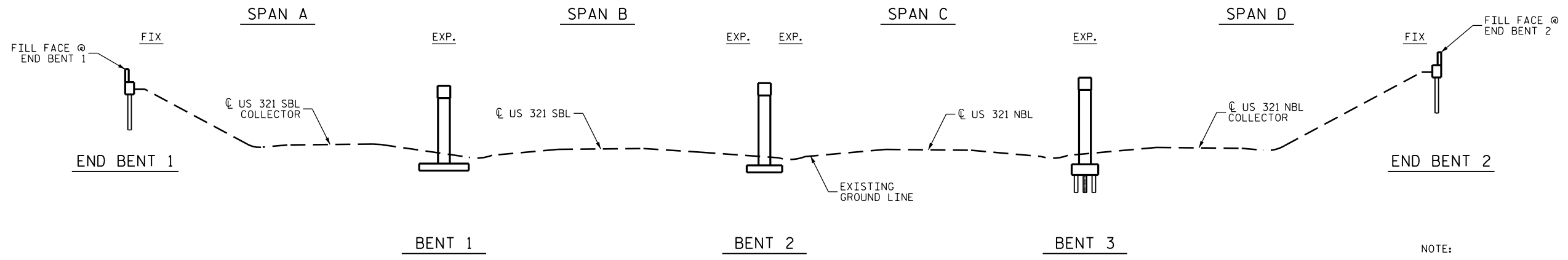
1/12/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGE ON I-40
 EAST BOUND COLLECTOR
 OVER US 321

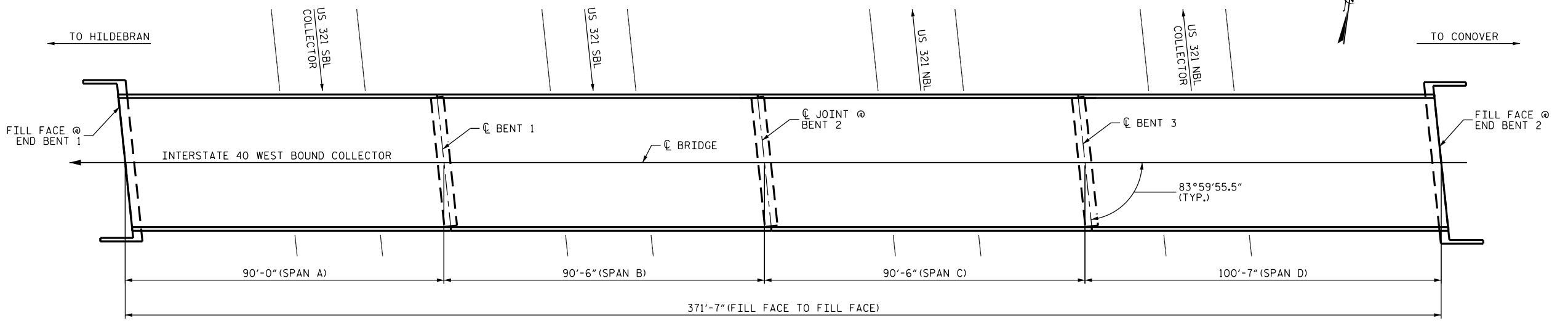
DRAWN BY : R.PUTEK DATE : 07/15
 CHECKED BY : J.YANNACCONI DATE : 07/15

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-5
1			3			TOTAL SHEETS
2			4			12



NOTE:
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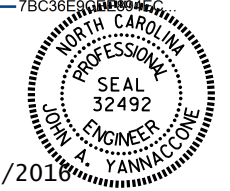


SCOPE OF WORK

- CLEAN AND PAINT STEEL GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 106

DocuSigned by:
 John A. Yannaccone



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**GENERAL DRAWING
 FOR BRIDGE ON I-40
 WEST BOUND COLLECTOR
 OVER US 321**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-6
1			3			TOTAL SHEETS
2			4			12

DOCUMENT NOT CONSIDERED
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DRAWN BY : R. PUTEK DATE : 07/15
 CHECKED BY : J. YANNAKONE DATE : 07/15



LOCATION SKETCH

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FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

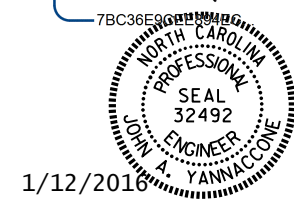
PROJECT NO. BP-5500D
CATAWBA COUNTY
BRIDGE NO. 143, 144

SHEET 1 OF 3

DocuSigned by:

John A. Yannaccone

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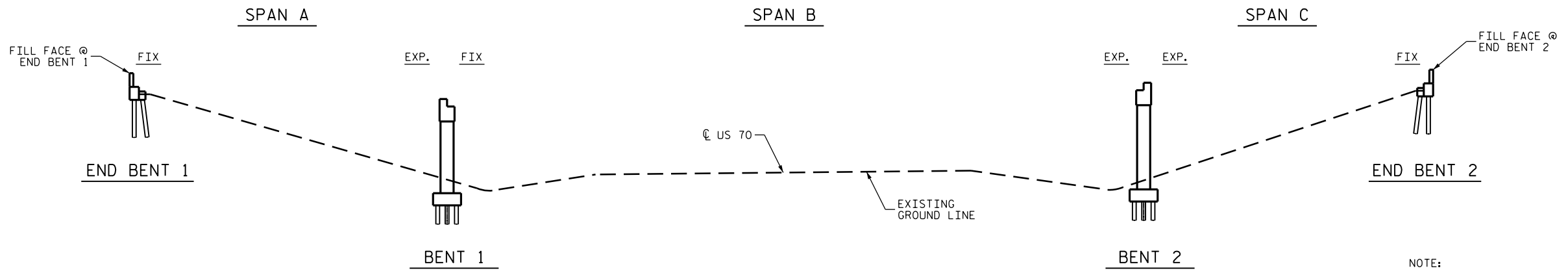
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGES ON
I-40 OVER US 70

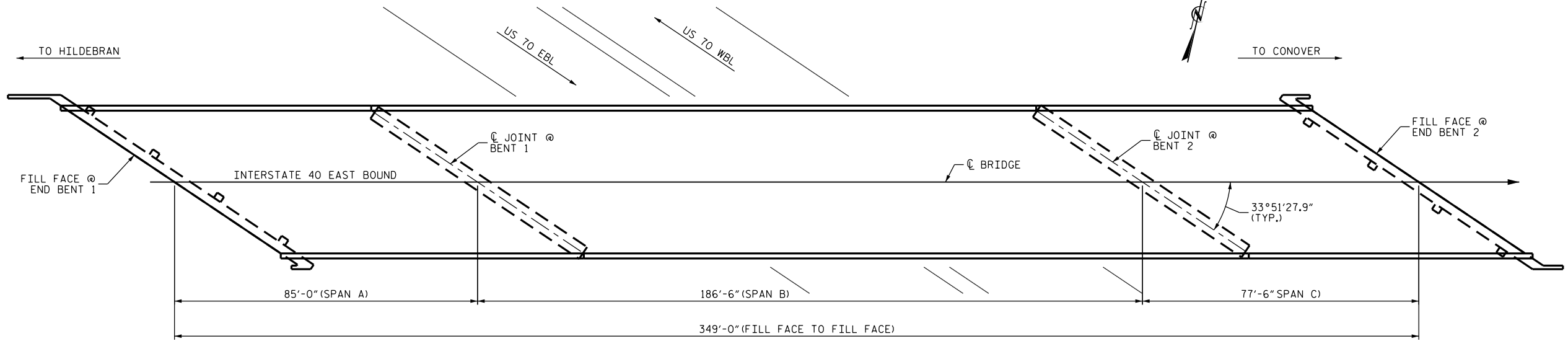
DRAWN BY : R.PUTEK DATE : 07/15
CHECKED BY : J.YANACONE DATE : 07/15

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NO.	BY:	DATE:	NO.	BY:	DATE:	S-7
1			3			TOTAL SHEETS
2			4			12

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NOTE:
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 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 143

DocuSigned by:
John A. Yannaccone
 7BC36E9C680015
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32492
 JOHN A. YANNACCONE
 1/12/2016

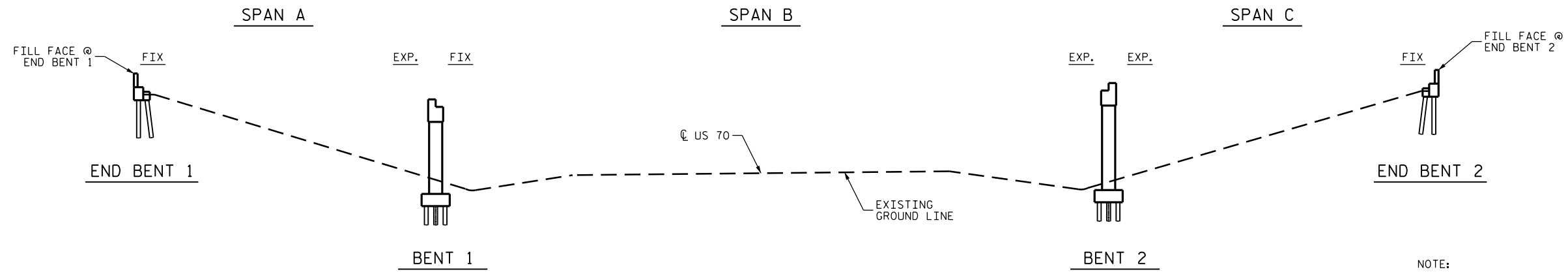
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE ON
 I-40 EAST BOUND
 OVER US 70

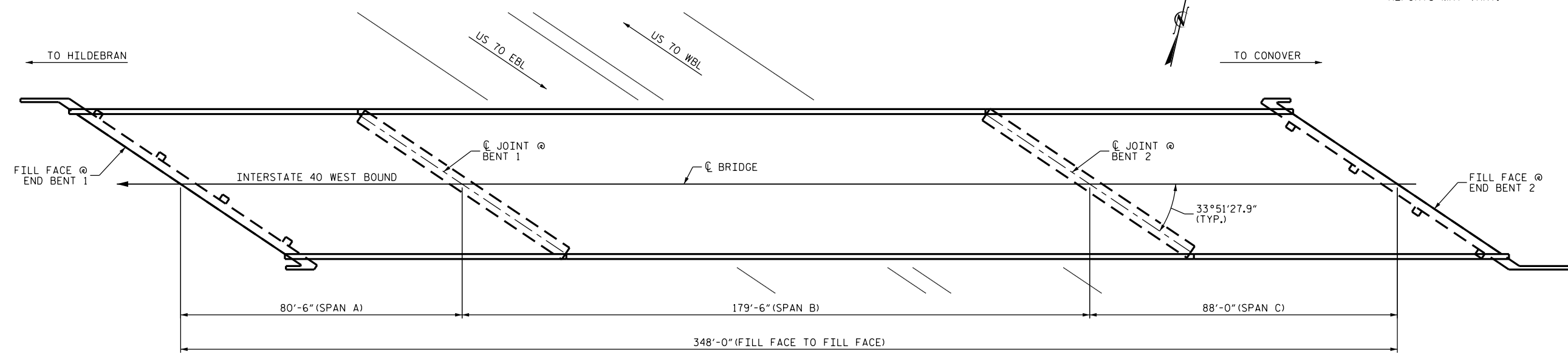
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			12

DRAWN BY : R.PUTEK DATE : 07/15
 CHECKED BY : J.YANNACCONE DATE : 07/15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



NOTE:
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 03/23/2015.
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS, GIRDERS AND BEARINGS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 144

DocuSigned by:
John A. Yannaccone
 7BC36E00-0000-4000-8000-000000000000
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32492
 JOHN A. YANNACCONE
 1/12/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGE ON
 I-40 WEST BOUND
 OVER US 70

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-9
1			3			TOTAL SHEETS
2			4			12

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : R. PUTEK DATE : 07/15
 CHECKED BY : J. YANNACCONE DATE : 07/15



LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING THE BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

NOTES

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

FOR PAINTING CONTAINMENT, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

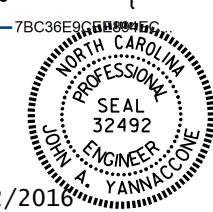
FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BRIDGE, SEE SPECIAL PROVISIONS.

FOR POLLUTION CONTROL, SEE SPECIAL PROVISIONS.

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 171, 172

DocuSigned by:
 John A. Yannaccone



1/12/2016

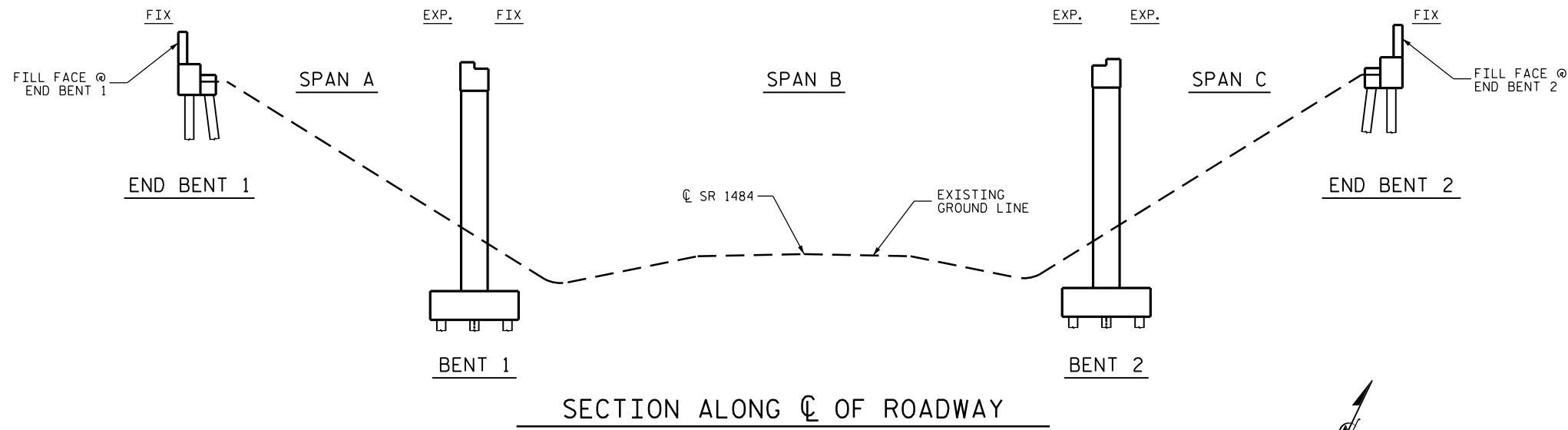
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGES ON
 I-40 OVER SR 148A
 (COUNTY HOME ROAD)

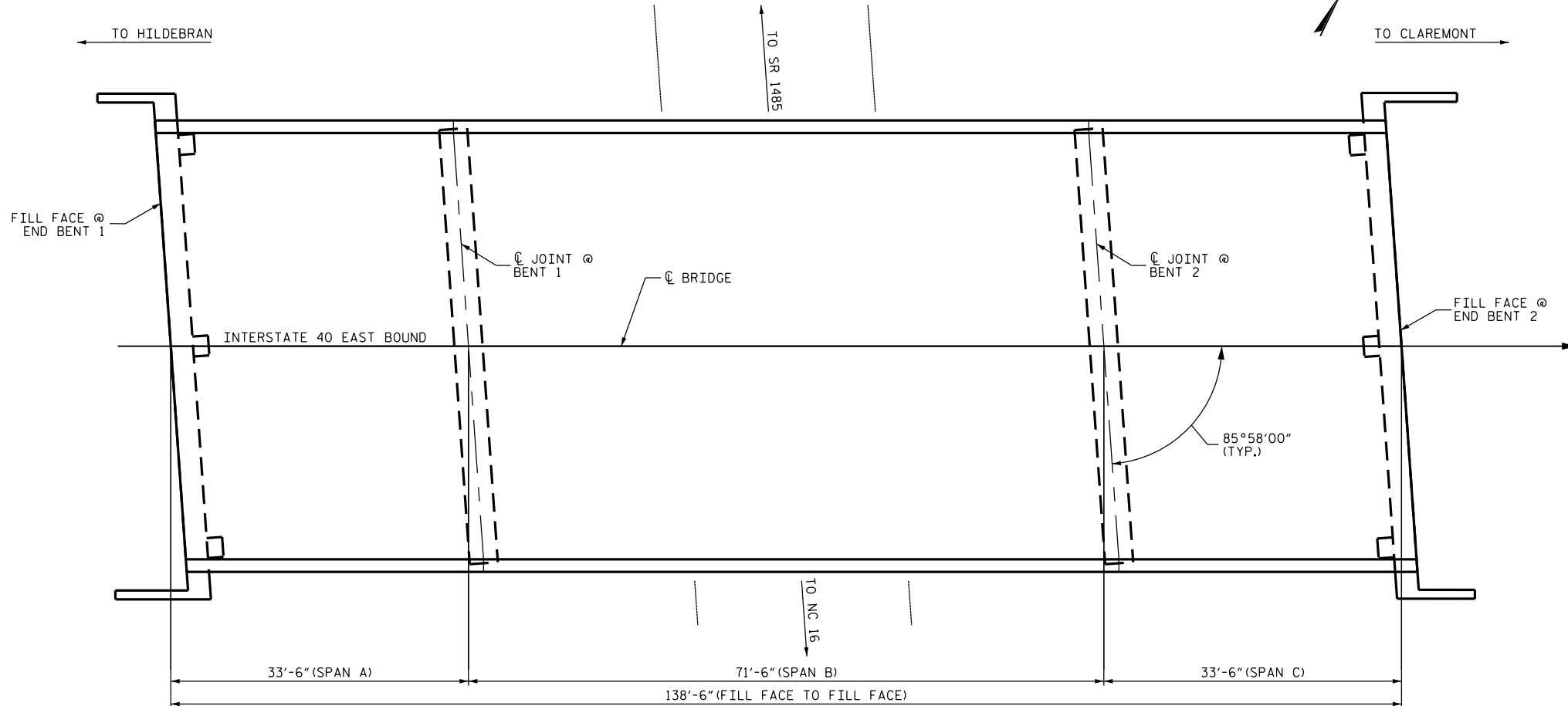
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1			3			TOTAL SHEETS
2			4			12

DRAWN BY : R.PUTEK DATE : 07/15
 CHECKED BY : J.YANNACCON DATE : 07/15

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NOTE:
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 04/08/2015.
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS AND BEARINGS.

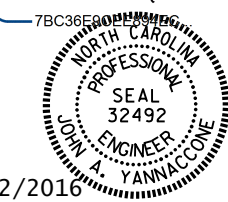
PLAN

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 171

SHEET 2 OF 3

DocuSigned by:

John A. Yannaccone



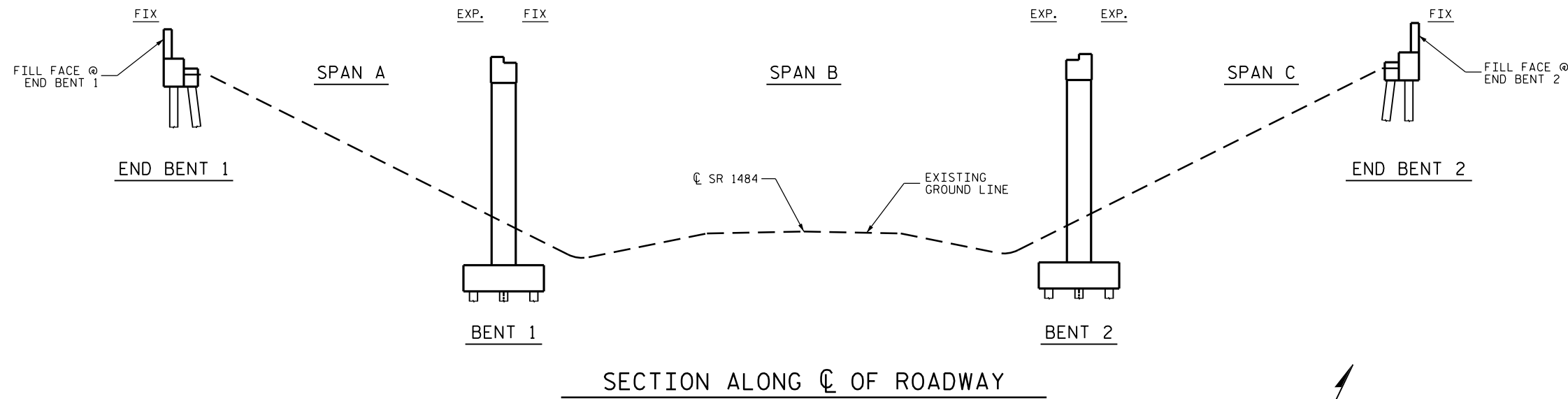
1/12/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGE ON
 I-40 EAST BOUND
 OVER SR 1484
 (COUNTY HOME ROAD)

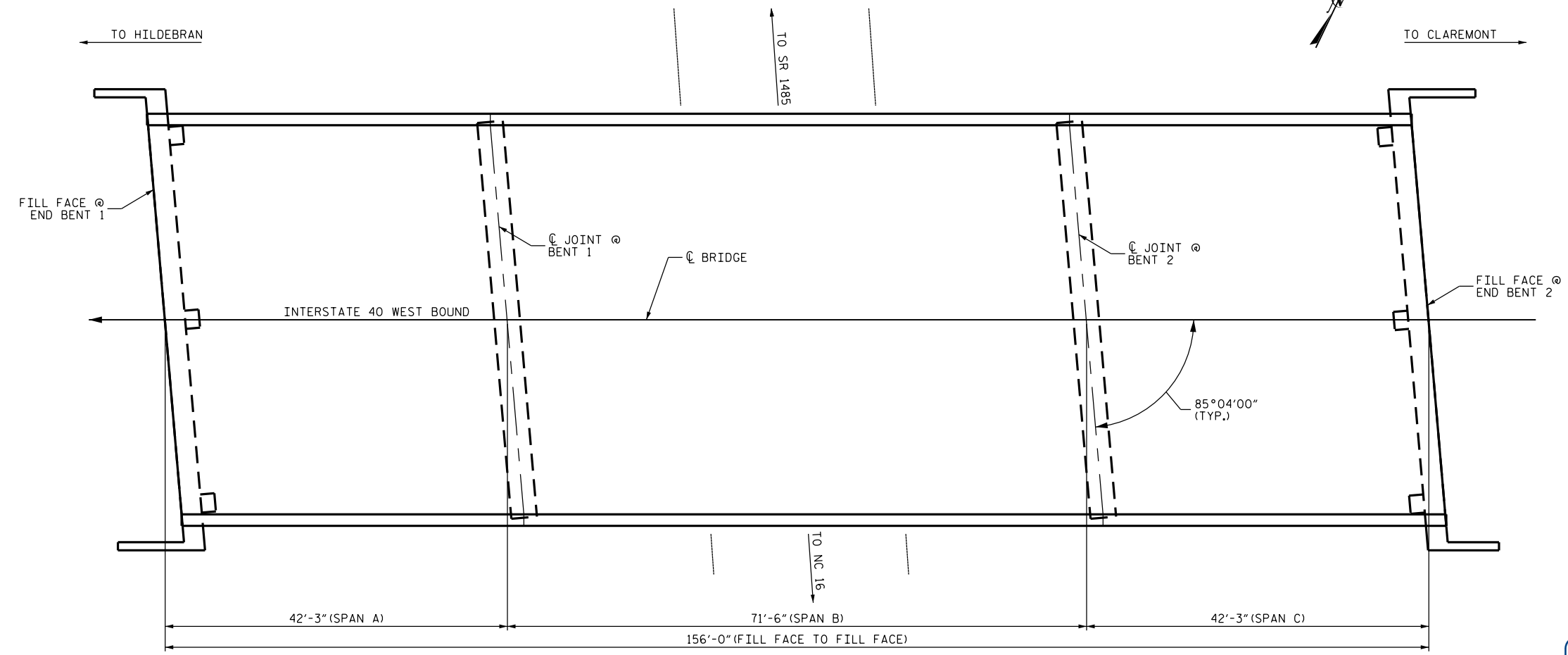
DRAWN BY : R. PUTEK DATE : 07/15
 CHECKED BY : J. YANNACCONO DATE : 07/15

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
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1			3			TOTAL SHEETS
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NOTE:
 THE PROFILE INFORMATION IS TAKEN FROM THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 04/08/2015.
 BRIDGE ORIENTATION CONFORMS TO EXISTING BRIDGE PLANS. ORIENTATION OF INSPECTION REPORTS MAY VARY.



SCOPE OF WORK

- CLEAN AND PAINT STEEL BEAMS AND BEARINGS.

PLAN

PROJECT NO. BP-5500D
CATAWBA COUNTY
 BRIDGE NO. 172

SHEET 3 OF 3

DocuSigned by:
John A. Yannaccone
 7BC36500-8338-4833-9000-000000000000
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32492
 JOHN A. YANNACCONI
 1/12/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**GENERAL DRAWING
 FOR BRIDGE ON
 I-40 EAST BOUND
 OVER SR 1484
 (COUNTY HOME ROAD)**

DRAWN BY :	R. PUTEK	DATE :	07/15
CHECKED BY :	J. YANNACCONI	DATE :	07/15

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			12
2			4			12

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 Jayannaccone

STANDARD NOTES

DESIGN DATA:

SPECIFICATIONS	-----	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	-----	SEE PLANS
IMPACT ALLOWANCE	-----	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF		
STRUCTURAL STEEL - AASHTO M270 GRADE 36	-	20,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50W	-	27,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50	-	27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION		
GRADE 60	--	24,000 LBS. PER SQ. IN.
CONCRETE IN COMPRESSION	-----	1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR	-----	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR		
UNTREATED - EXTREME FIBER STRESS	-----	1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	-----	375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH	-----	30 LBS. PER CU. FT.
		(MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE 3/4" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16" INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

ENGLISH

JANUARY, 1990

STD. NO. SN