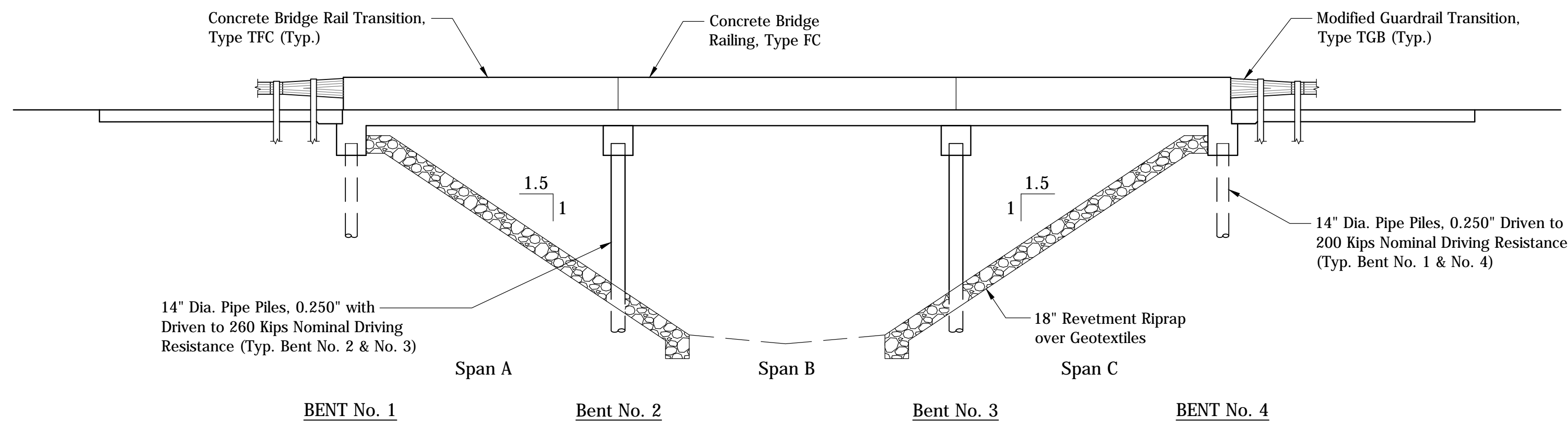
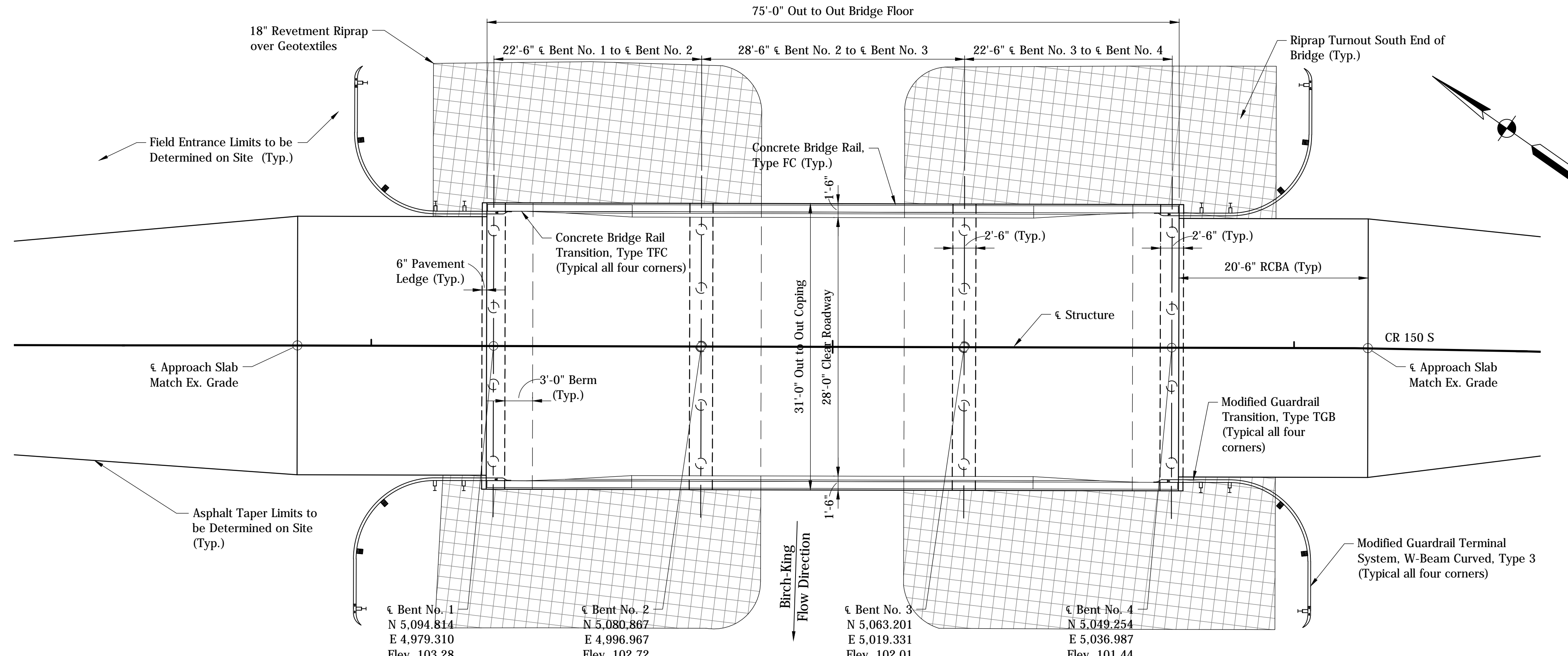


Structure to be Built on a -2.50% Grade



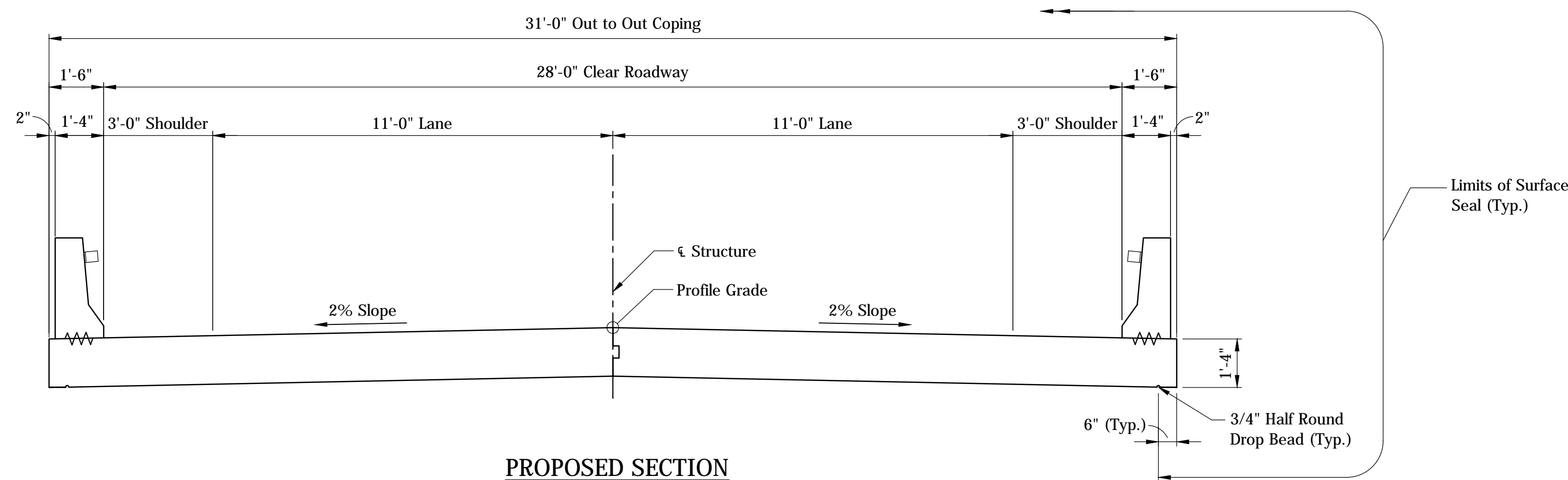
PROPOSED ELEVATION

Scale: 1/8" = 1'-0"



PROPOSED PLAN

Scale: 1/8" = 1'-0"

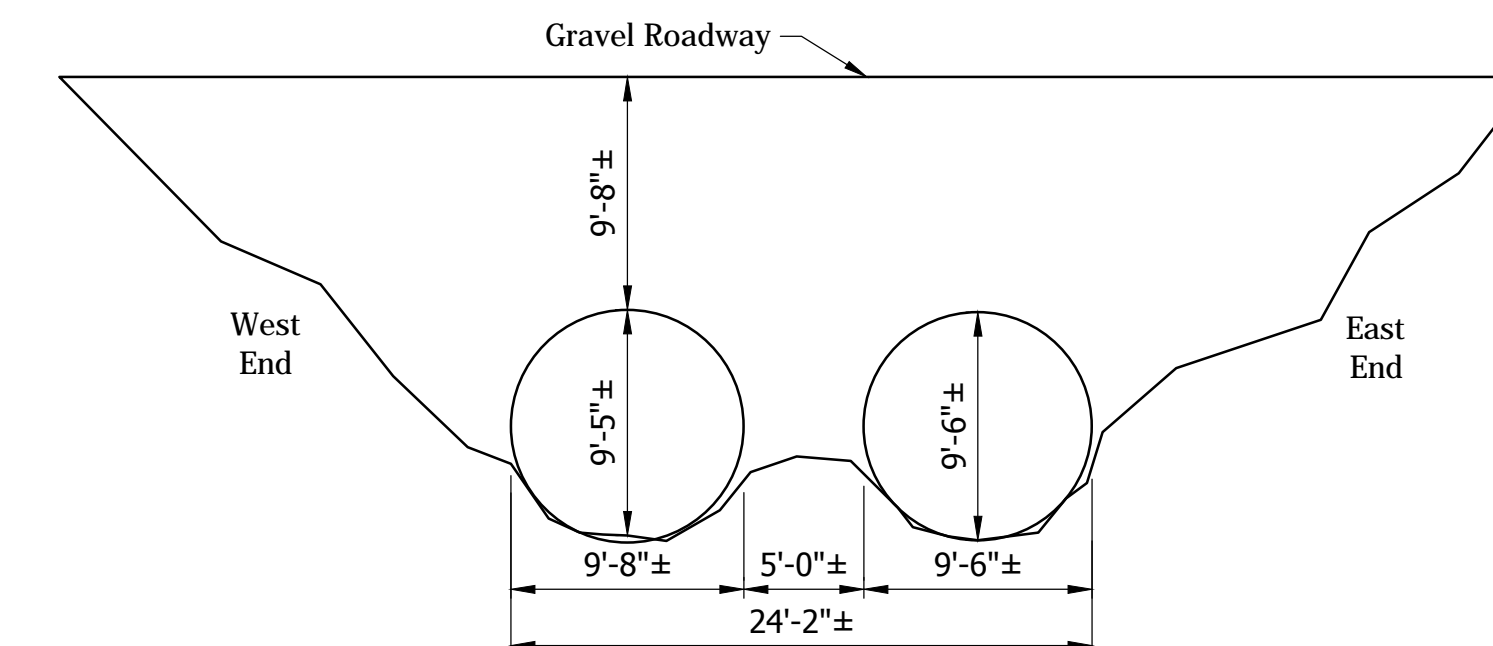


PROPOSED SECTION

Scale: 3/8" = 1'-0"

EXISTING STRUCTURE

To be Removed. Twin 114" Diameter Multi-Plate Pipes Under Fill. Bridge Roadway Width 21'-0", No Skew.



DESIGN DATA

Live Load
Superstructure and Substructure Designed for HL-93 Loading in Accordance with the AASHTO LRFD Bridge Specifications, 6th Edition, 2013, and its Subsequent Interims.

Dead Load
Dead Load increased 35 psf for Future Wearing Surface.

Design Strengths
To be in Accordance with AASHTO LRFD Bridge Design Specifications, 6th Edition, 2013, and its Subsequent Interims.

Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
Class 'C' Concrete $f'_c = 4,000$ psi
Class 'B' Concrete $f'_c = 3,000$ psi
Class 'A' Concrete $f'_c = 3,500$ psi

GENERAL NOTES

Reinforcing Steel Cover Shall be 2 1/2" in Top and 1" in Bottom of Floor Slabs, and Shall be 2" in All Other Locations, Unless Noted Otherwise.

All Exposed Concrete Edges Shall be Chamfered 1".

Pile Location Tolerance Shall be 2".

The Present Structure Shall be Removed in its Entirety to Facilitate Placing of the New Structure.

Horizontal and Vertical Alignment Based on Field Survey Completed by R.L. McCoy.

Limits of Asphalt Taper and Field Entrance Reconstruction to be Determined on Site.

CONTROL POINTS			
POINT	N	E	Z
CP 1	5,000.000	5,000.000	98.29
CP 2	5,191.955	5,037.617	101.22
CP 3	5,235.313	5,030.336	102.92

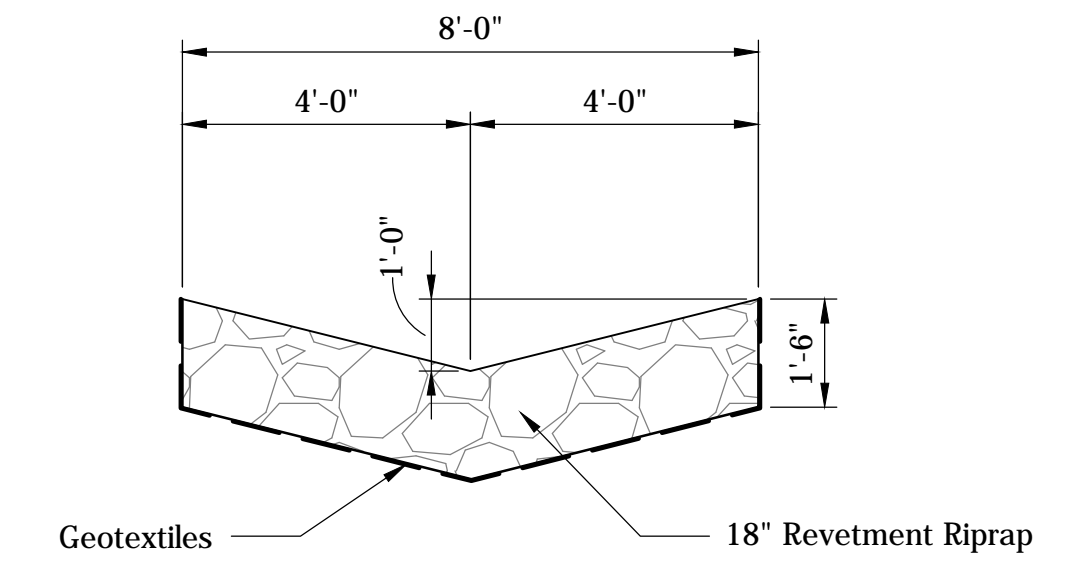
CONTINUOUS REINFORCED CONCRETE SLAB
3 SPANS: 22'-6"; 28'-6"; 22'-6"
28'-0" CLEAR ROADWAY WIDTH; NO SKEW

GENERAL PLAN

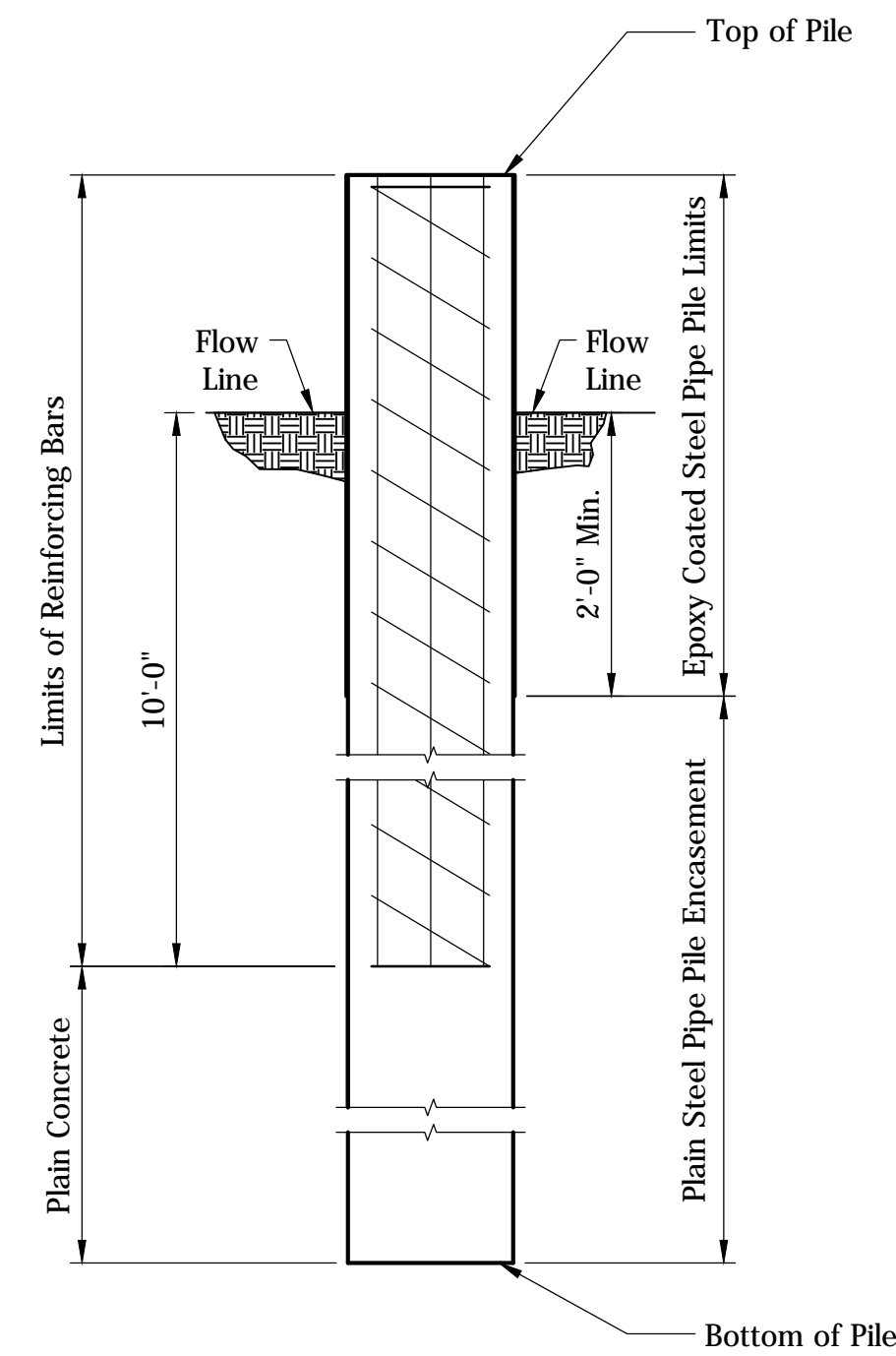
ENGINEERING RESOURCES, INC.
Ph: (260) 490-1025
www.eri.consulting
11020 Diebold Rd.
Fort Wayne, Indiana 46845

RECOMMENDED FOR APPROVAL: *K.J.H.* DESIGN ENGINEER, DATE: 10/19/2015
DESIGNED: KJH, DRAWN: JFW
CHECKED: JFW, CHECKED: KJH

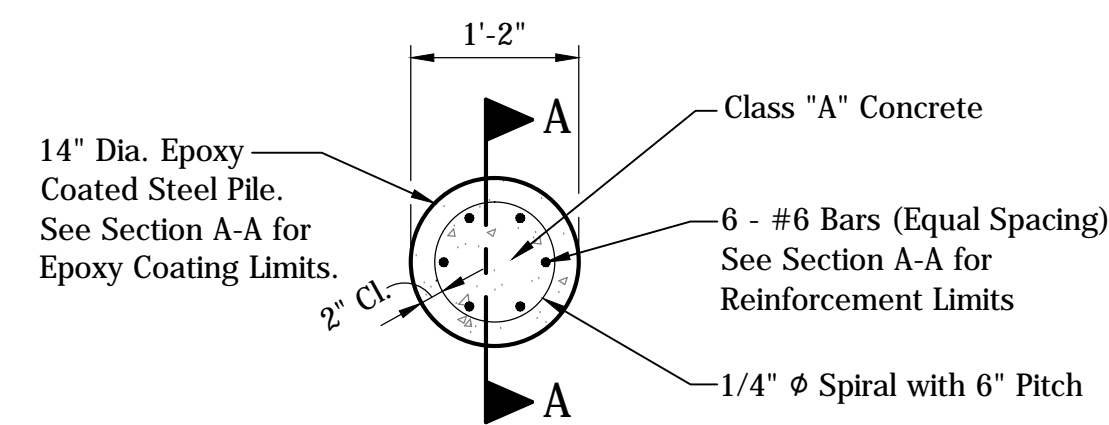
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	
SURVEY BOOK	SHEETS
	2 of 7
CONTRACT	PROJECT



RIPRAP TURNOUT DETAIL
Scale: 3/8" = 1'-0"

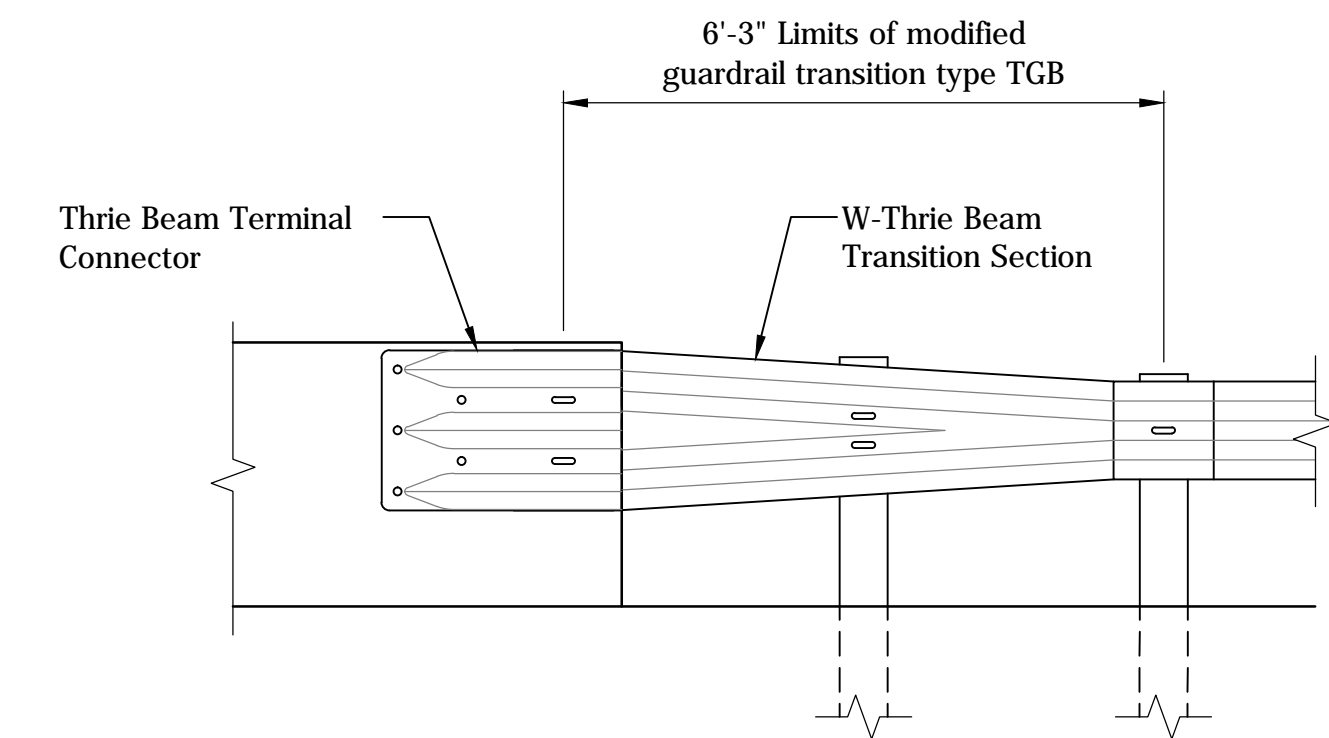


SECTION A-A
Scale: 3/4" = 1'-0"

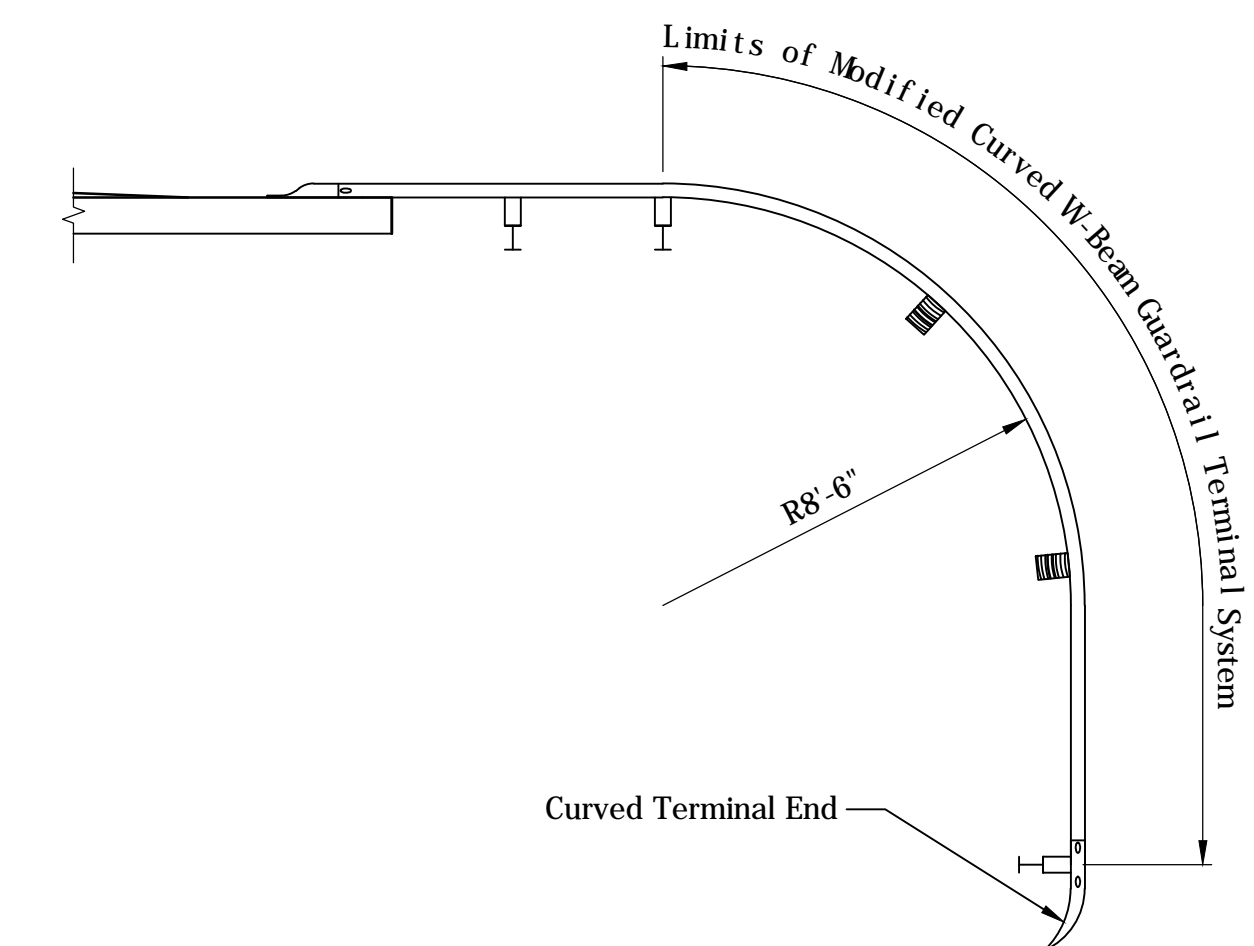


REINFORCED-CONCRETE FILLED EPOXY-COATED STEEL PIPE PILE ENCASEMENT PLAN VIEW
Scale: 3/4" = 1'-0"

Note - The Cost of Class "A" Concrete and Reinforcing Steel Shall Be Included In The Cost Of The Piling



MODIFIED GUARDRAIL TRANSITION, TYPE TGB
Scale: 1/2" = 1'-0"



MODIFIED GUARDRAIL, TERMINAL SYSTEM, W-BEAM CURVED, TYPE 3
Scale: 1/4" = 1'-0"

ENGINEERING RESOURCES, INC.
Ph: (260) 490-1025
www.eri.consulting

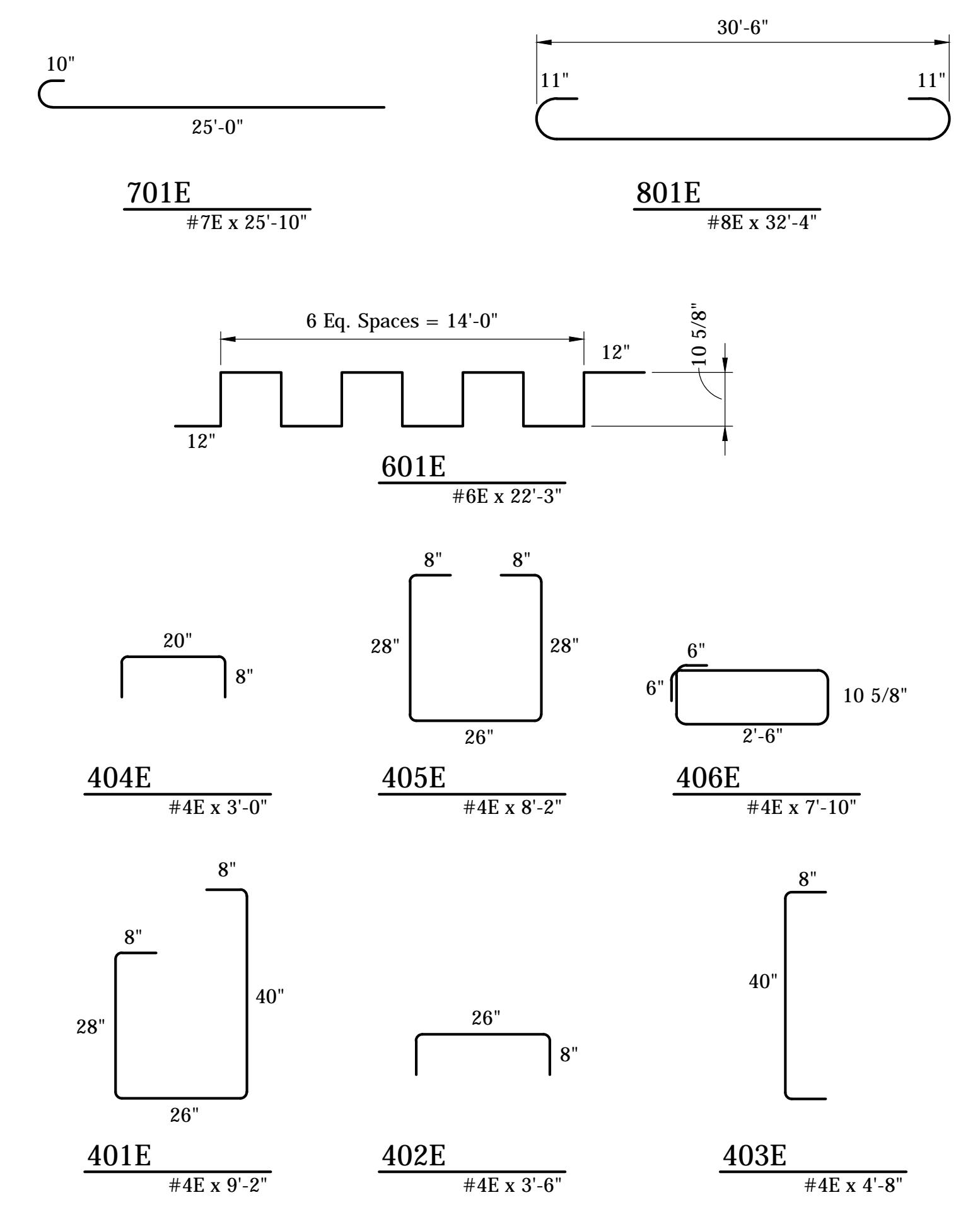
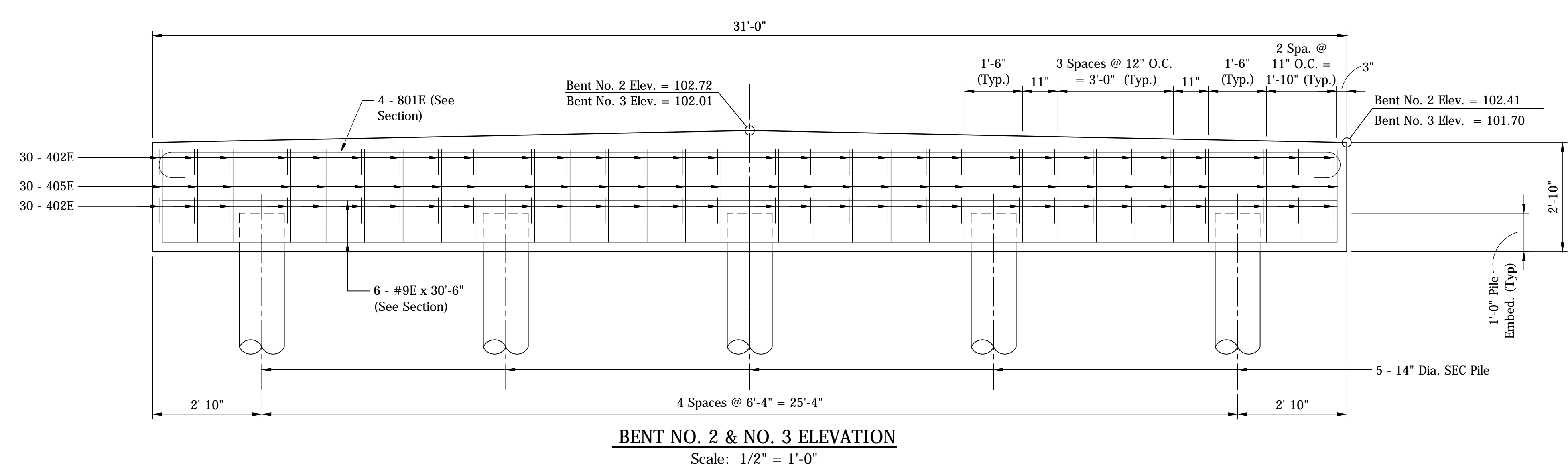
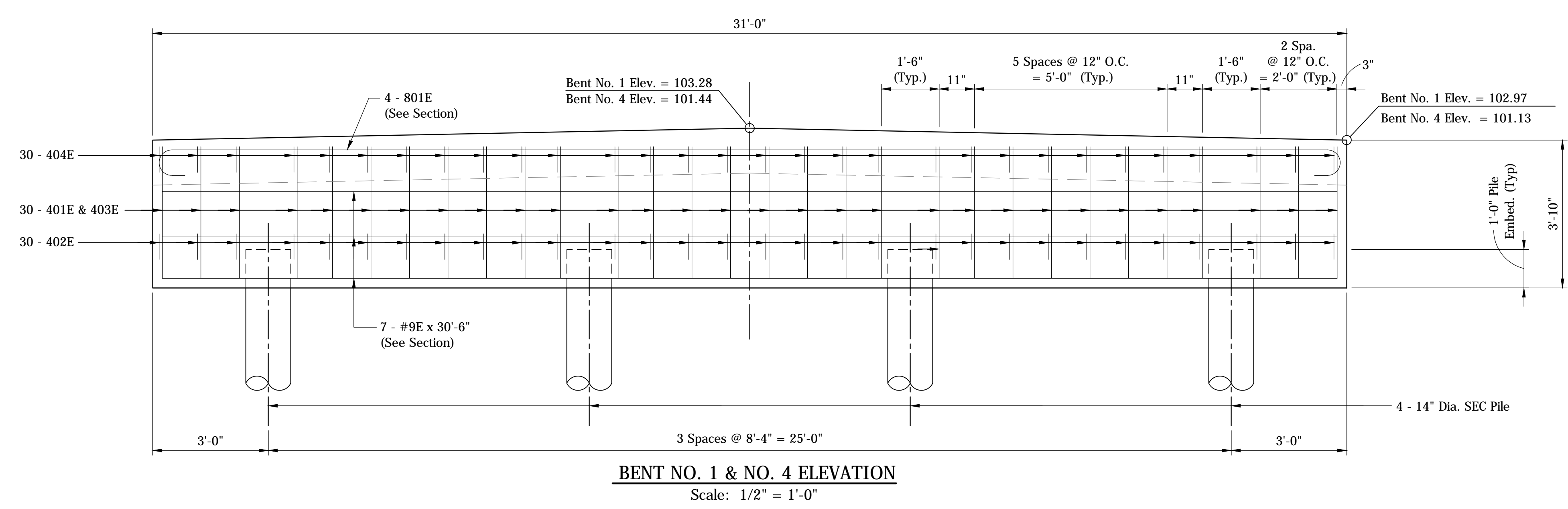
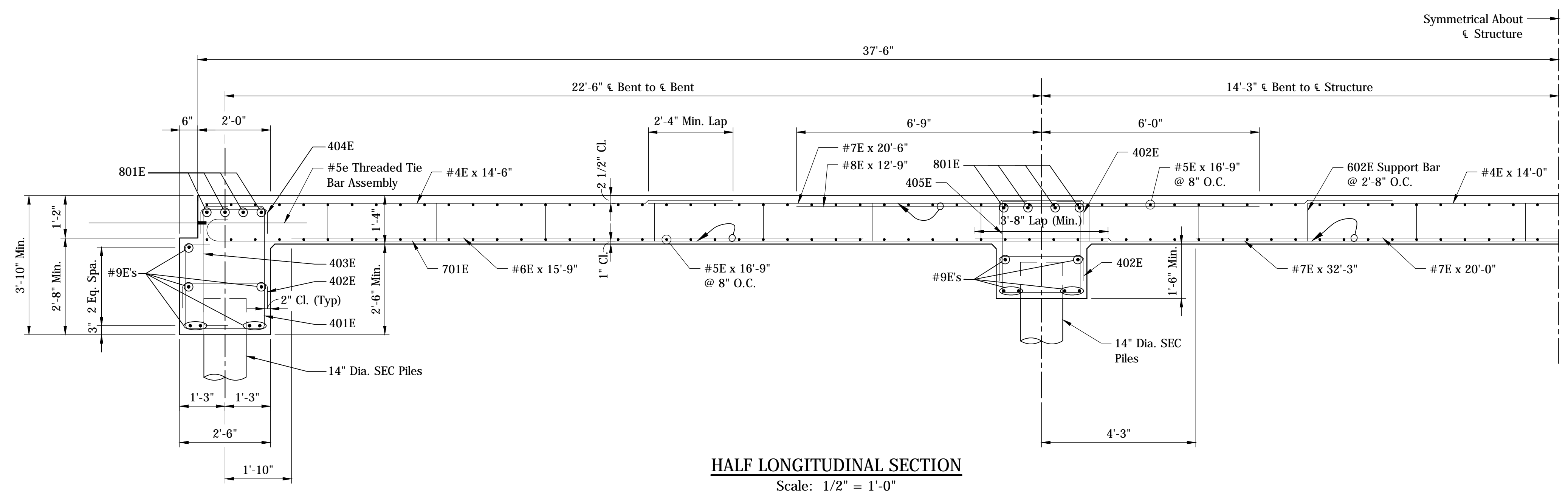
REGISTERED PROFESSIONAL ENGINEER
No. 300129
STATE OF INDIANA

RECOMMENDED FOR APPROVAL: *Ka. Hinc* 10/19/2015
DESIGN ENGINEER DATE

DESIGNED: KJH DRAWN: SAB
CHECKED: JFW CHECKED: JFW

CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	
SURVEY BOOK	SHEETS
	3 of 7
CONTRACT	PROJECT



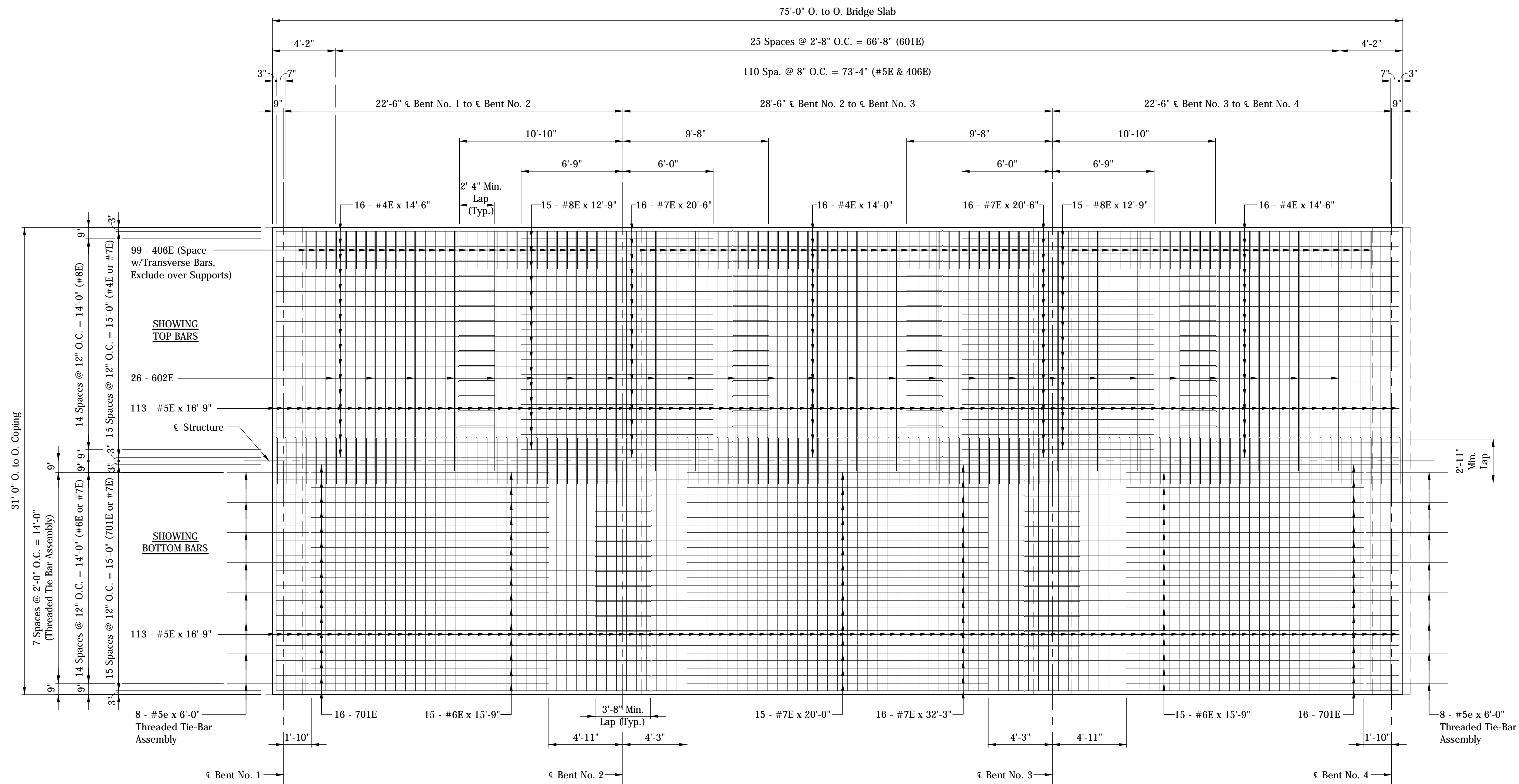
ENGINEERING RESOURCES, INC.
Ph: (260) 490-1025 11020 Diebold Rd. Fort Wayne, Indiana 46845
www.eri.consulting



RECOMMENDED FOR APPROVAL: *Ka. Heidt* DESIGN ENGINEER DATE: 10/19/2015
DESIGNED: KJH DRAWN: SAB
CHECKED: JFW CHECKED: JFW

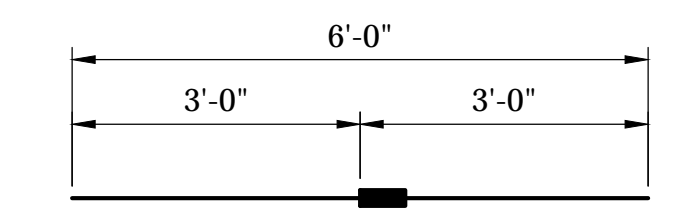
BENT DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
AS NOTED	
SURVEY BOOK	SHEETS
	4 of 7
CONTRACT	PROJECT

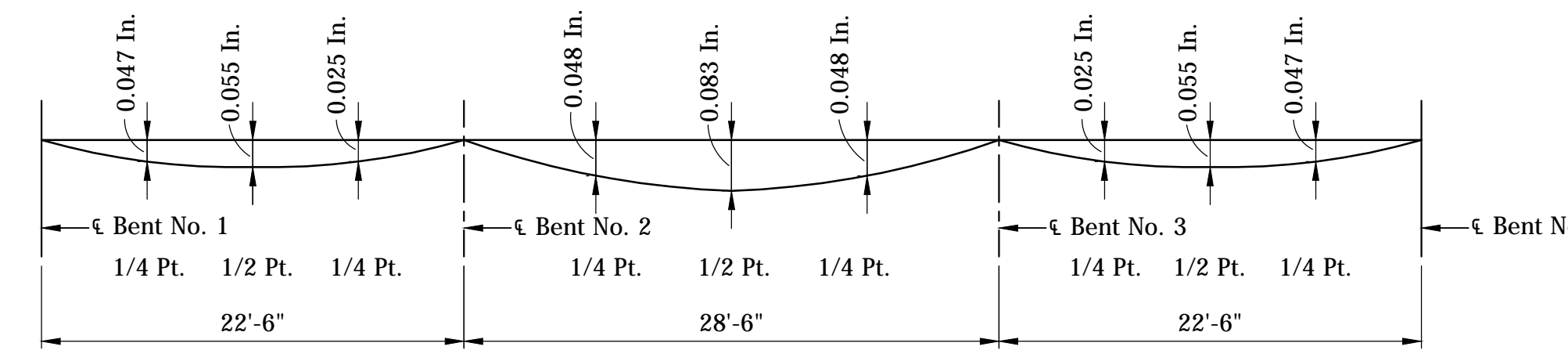


FLOOR DETAILS
Scale: 1/4" = 1'-0"

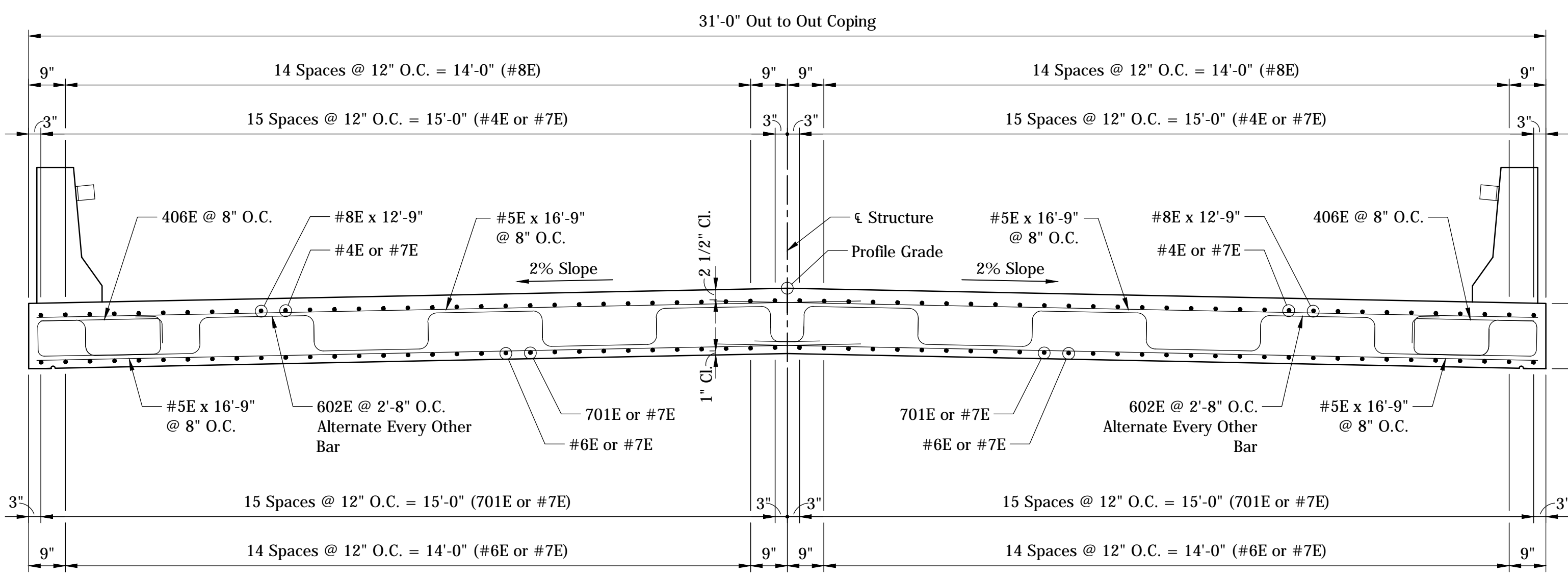
BILL OF MATERIALS			
SUPERSTRUCTURE			
MARK OR SIZE	NO. REQ'D	LENGTH	WEIGHT
#9E	26	30'-6"	
Total #9 Epoxy Coated Bars			2,697#
801E	16	32'-4"	
#8E	60	12'-9"	
Total #8 Epoxy Coated Bars			3,424#
701E	64	25'-10"	
#7E	32	32'-3"	
#7E	64	20'-6"	
#7E	30	20'-0"	
Total #7 Epoxy Coated Bars			9,397#
601E	52	22'-3"	
#6E	60	15'-9"	
Total #6 Epoxy Coated Bars			3,158#
#5E	452	16'-9"	
Total #5 Epoxy Coated Bars			7,897#
401E	60	9'-2"	
402E	180	3'-6"	
403E	60	4'-8"	
404E	60	3'-0"	
405E	60	8'-2"	
406E	198	7'-10"	
#4E	64	14'-6"	
#4E	32	14'-0"	
Total #4 Epoxy Coated Bars			3,378#
Total Epoxy Coated Reinf. Steel			29,951#
CONCRETE			
Concrete, Class C, Superstructure			141.3 CYS
MISCELLANEOUS			
Threaded Tie Bar Assembly, Epoxy Coated, #5E			32 EA
Surface Seal			5,815 SFT
Structural Backfill - Type 4			13 CYS



THREADED TIE BAR ASSEMBLY, EPOXY COATED, #5E
Scale: N.T.S.



DEAD LOAD DEFLECTION DIAGRAM



TYPICAL SECTION
Scale: 1/2" = 1'-0"

<p>ENGINEERING RESOURCES, INC. Ph: (260) 490-1025 www.eri.consulting</p>		<p>RECOMMENDED FOR APPROVAL</p> <p><i>Heidi K. J. H.</i></p> <p>DESIGN ENGINEER</p> <p>10/19/2015</p> <p>DATE</p>	<p>HORIZONTAL SCALE</p> <p>AS NOTED</p> <p>VERTICAL SCALE</p> <p>AS NOTED</p> <p>SURVEY BOOK</p> <p>CONTRACT</p>	<p>BRIDGE FILE</p> <p>DESIGNATION</p> <p>SHEETS</p> <p>5 of 7</p> <p>PROJECT</p>
		<p>DESIGNED: KJH</p> <p>CHECKED: JFW</p>		

FLOOR DETAILS