

PROJECT	DESIGNATION
N881008	0014210
CONTRACT	BRIDGE FILE
B-33357	152-45-02730

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
152-45-02730	CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE	8 SPANS: 138'-6", 138'-6", 163'-6", 167'-6", 128'-0", 150'-0", 167'-6", 151'-6" SKEW: 15° RT.	INDIANA HARBOR BELT RAILROAD	136+48.50 "PR-A"

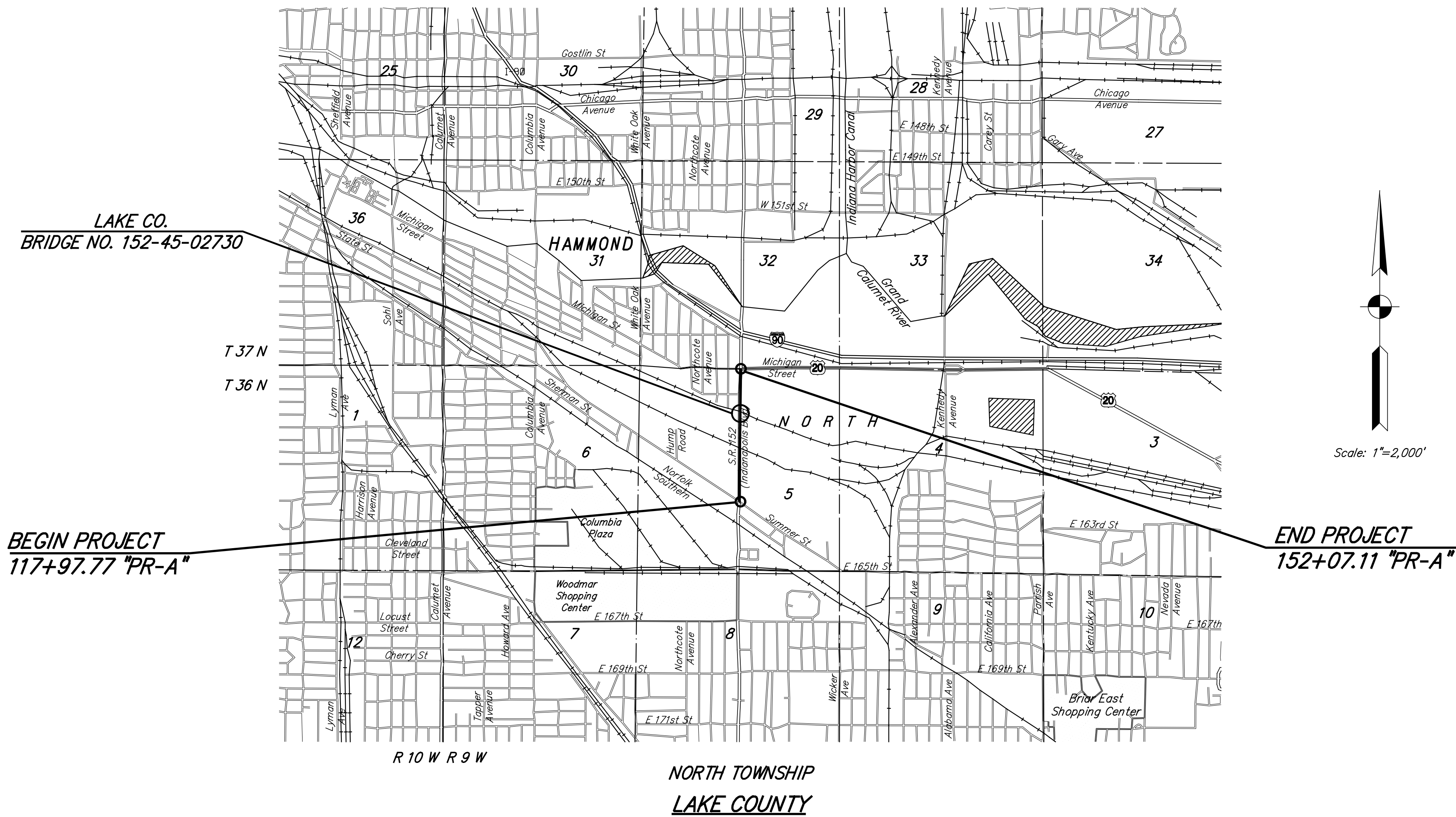
KIN DESIGNATION NUMBERS	
DESIGNATION	DESCRIPTION
0200384	S.R.152 LIGHTING PLANS

INDIANA DEPARTMENT OF TRANSPORTATION

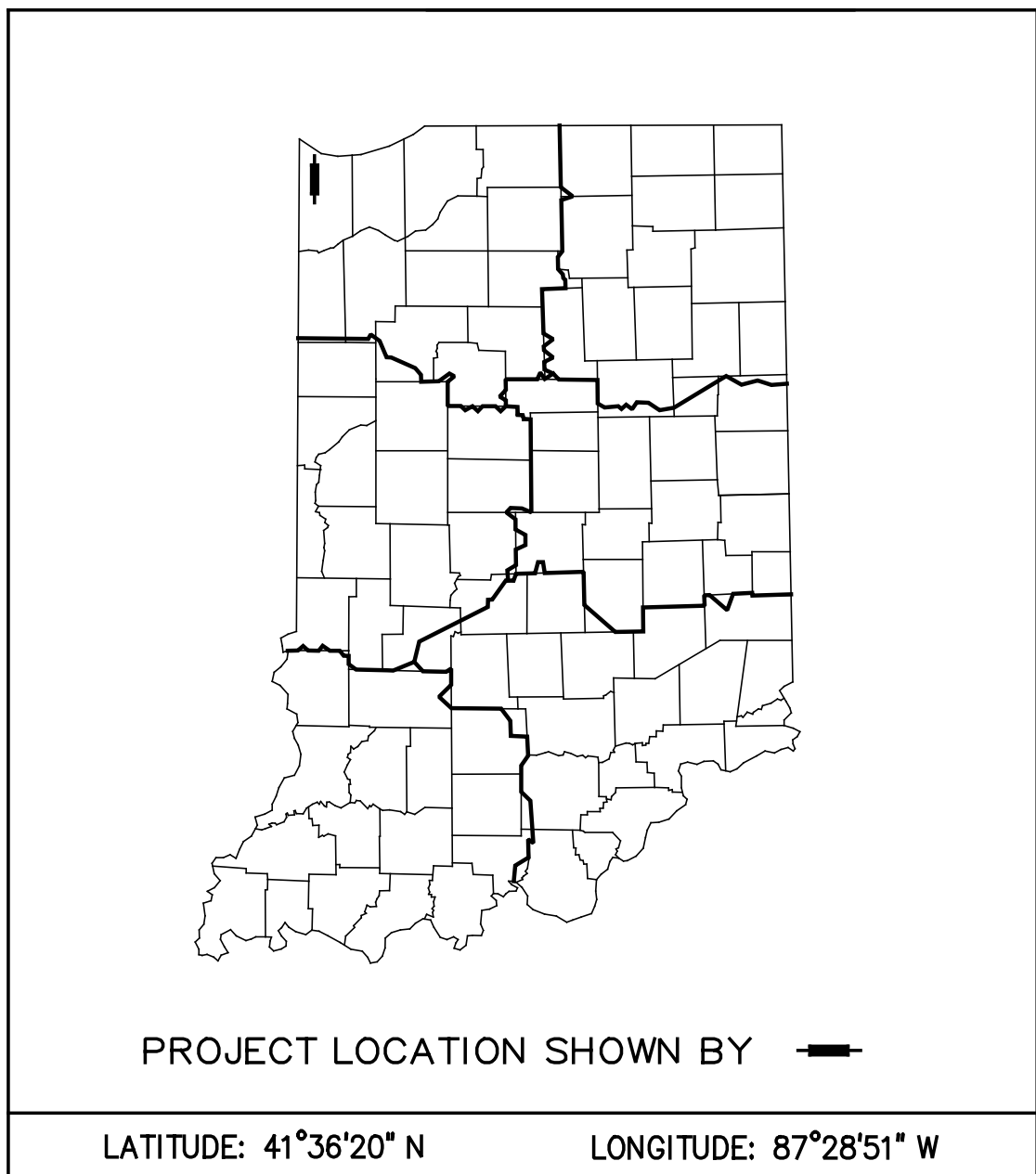
BRIDGE PLANS FOR SPANS OVER 20 FEET STATE ROAD 152 OVER INDIANA HARBOR BELT RAILROAD

PROJECT NO. N881008 P.E.
8810084 R/W
N881008 CONST.

Project Description: This bridge replacement is on State Road 152 over Indiana Harbor Belt Railroad located approximately 0.4 miles north of Summer Street in Section 5, T-36-N, R-9-W, North Township, Lake County, Indiana.
RP 2+24



TRAFFIC DATA		STATE ROAD 152	
A.A.D.T.	2012	26,677	V.P.D.
A.A.D.T.	2032	31,713	V.P.D.
D.H.V.	2032	4,480	V.P.H.
DIRECTIONAL DISTRIBUTION		50	%
TRUCKS		5	% D.H.V.
DESIGN DATA			
DESIGN SPEED	35 M.P.H.		
PROJECT DESIGN CRITERIA	RECONSTRUCTION (Non-Freeway)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		
RURAL/URBAN	URBAN (BUILT-UP)		
TERRAIN	LEVEL		
ACCESS CONTROL	PARTIAL		



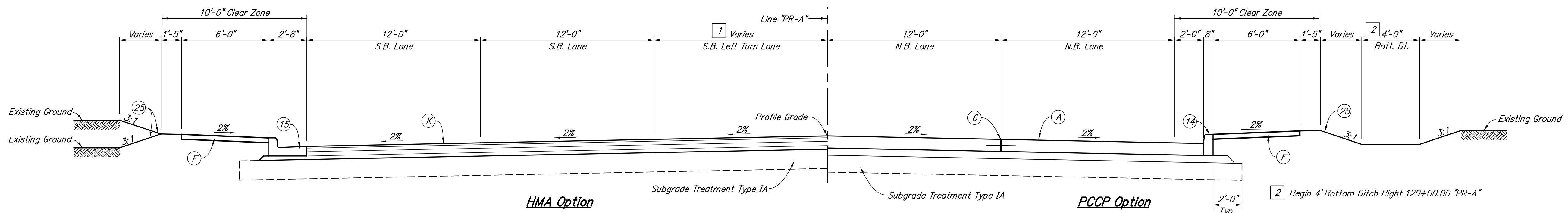
BRIDGE LENGTH :	0.229	Mile
ROADWAY LENGTH :	0.417	Mile
TOTAL LENGTH :	0.646	Mile
MAX. GRADE :	+5.00	%

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580
PHONE NUMBER
CERTIFIED BY: *Alison M. Krupski* June 1, 2012
DATE
APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION
DATE

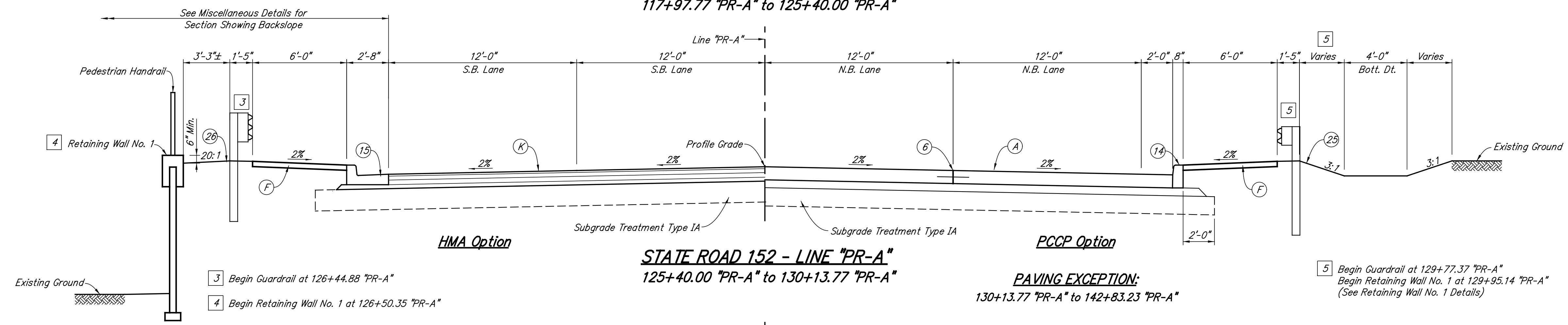


HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
N/A	0014210
SURVEY BOOK	SHEETS
	1 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



1 Varies from 12'-0" to 0'-0" from 122+40.00 "PR-A" to 125+40.00 "PR-A"

STATE ROAD 152 - LINE "PR-A"
117+97.77 "PR-A" to 125+40.00 "PR-A"

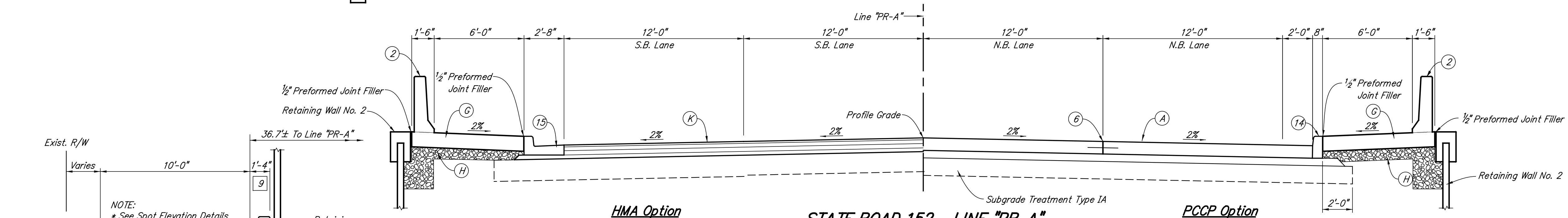


3 Begin Guardrail at 126+44.88 "PR-A"
4 Begin Retaining Wall No. 1 at 126+50.35 "PR-A"

STATE ROAD 152 - LINE "PR-A"
125+40.00 "PR-A" to 130+13.77 "PR-A"

PAVING EXCEPTION:
130+13.77 "PR-A" to 142+83.23 "PR-A"

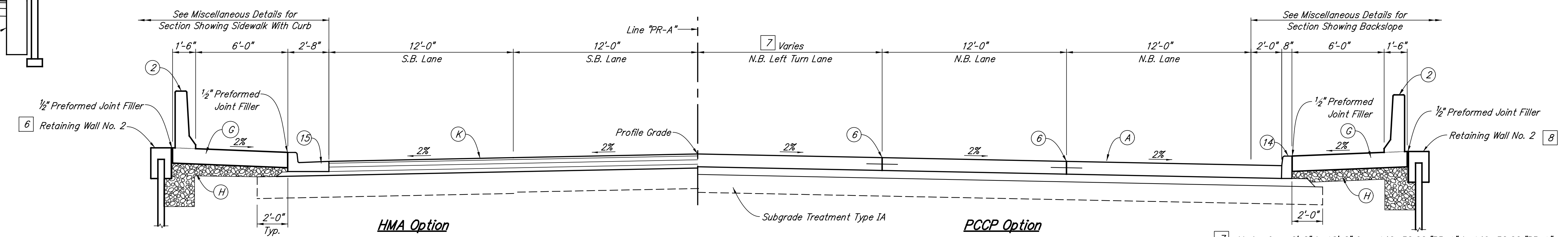
5 Begin Guardrail at 129+77.37 "PR-A"
Begin Retaining Wall No. 1 at 129+95.14 "PR-A"
(See Retaining Wall No. 1 Details)



NOTE:
* See Spot Elevation Details

9 Begin Barrier Wall at 145+25.00 "PR-A", Lt.
End Barrier Wall at 148+25.00 "PR-A", Lt.

TYPICAL ALLEY SECTION



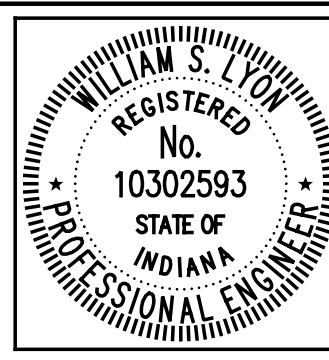
6 End Retaining Wall No. 2 at 149+75.00 "PR-A"

STATE ROAD 152 - LINE "PR-A"
146+30.00 "PR-A" to 152+07.11 "PR-A"

7 Varies from 0'-0" to 12'-0" from 146+30.00 "PR-A" to 149+30.00 "PR-A"
8 End Retaining Wall No. 2 at 149+75.00 "PR-A"

NOTE:
For Additional Details, See Typical Sections Line "AC-1" And Miscellaneous Details.

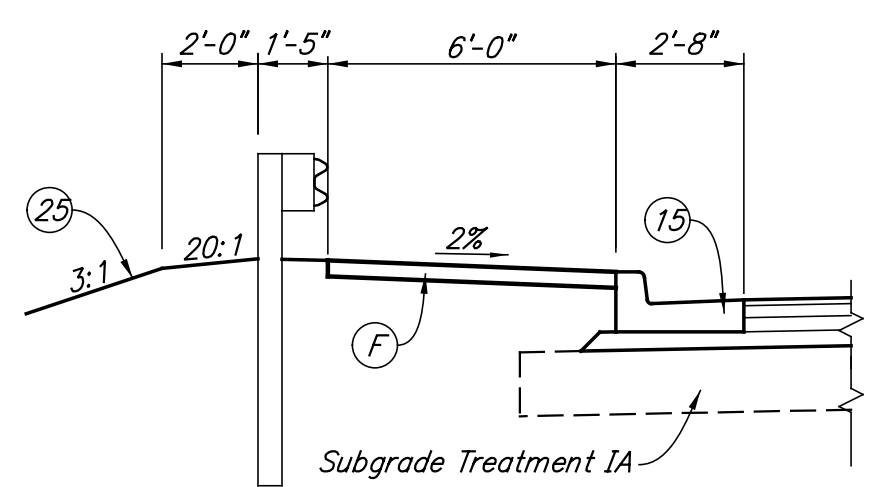
LEGEND			
(A) QC/QA-PCCP, 10 In. With D-1 Contraction Joints Spaced at 16'-0" Max. On 6 In. Dense Graded Subbase	(G) Reinforced Concrete Moment Slab, 12 In., Modified	(N) 6" Compacted Aggregate, No. 53, Base	(13) Curb, Concrete
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(H) Underdrain for MSE Wall	(2) Railing, Concrete, FT	(14) Curb, Integral, C, Concrete
(F) Sidewalk, Concrete, 4"	(K) 165 #/Syd. QC/QA HMA, 3, 70, Surface 9.5 mm, on 330 #/Syd. QC/QA HMA, 3, 70, Intermediate 19.0 mm, on 715 #/Syd. QC/QA HMA, 3, 64, Base 19.0 mm (Min. 2 Lifts)	(3) Concrete Barrier, 33 In., Modified	(15) Curb and Gutter, C, Concrete
		(6) Longitudinal Joint	(25) Seed Mixture, "U"
		(10) Paved Side Ditch, Type A	(26) Sodding



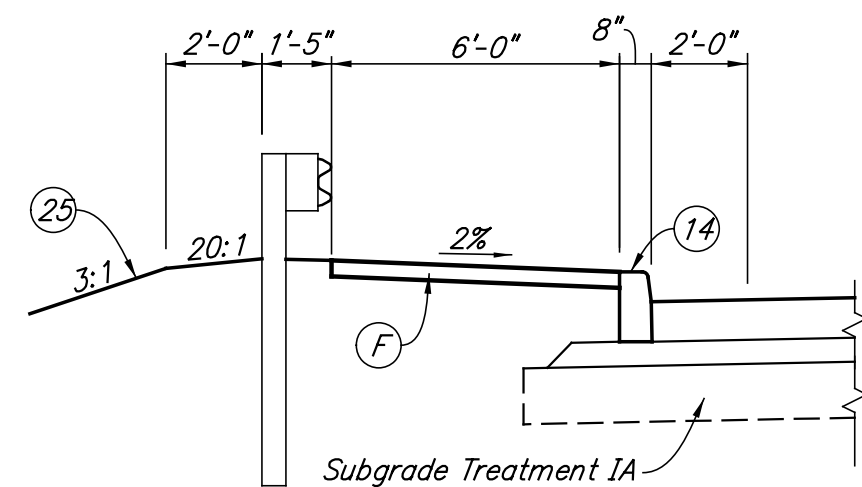
RECOMMENDED FOR APPROVAL	William S. Taylor	6/1/2012
DESIGNED:	NRM	DRAWN:
CHECKED:	DAD/WSL	CHECKED:
		DATE
		DATE

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS LINE "PR-A"	

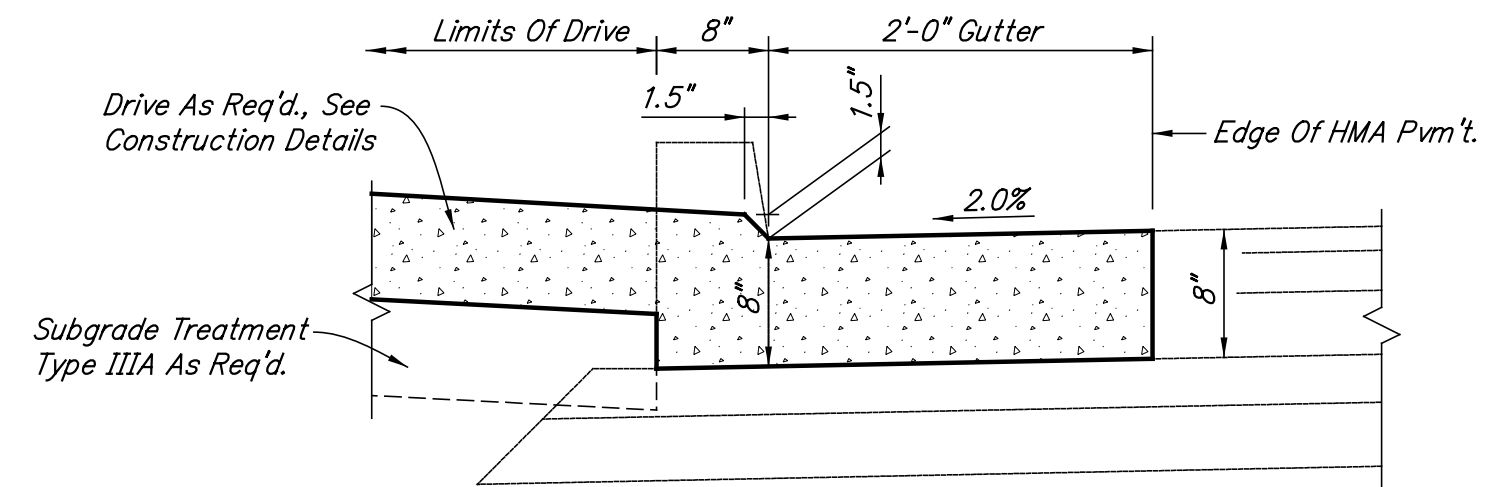
HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
	3 of 149
CONTRACT B-33357	PROJECT NO. N881008



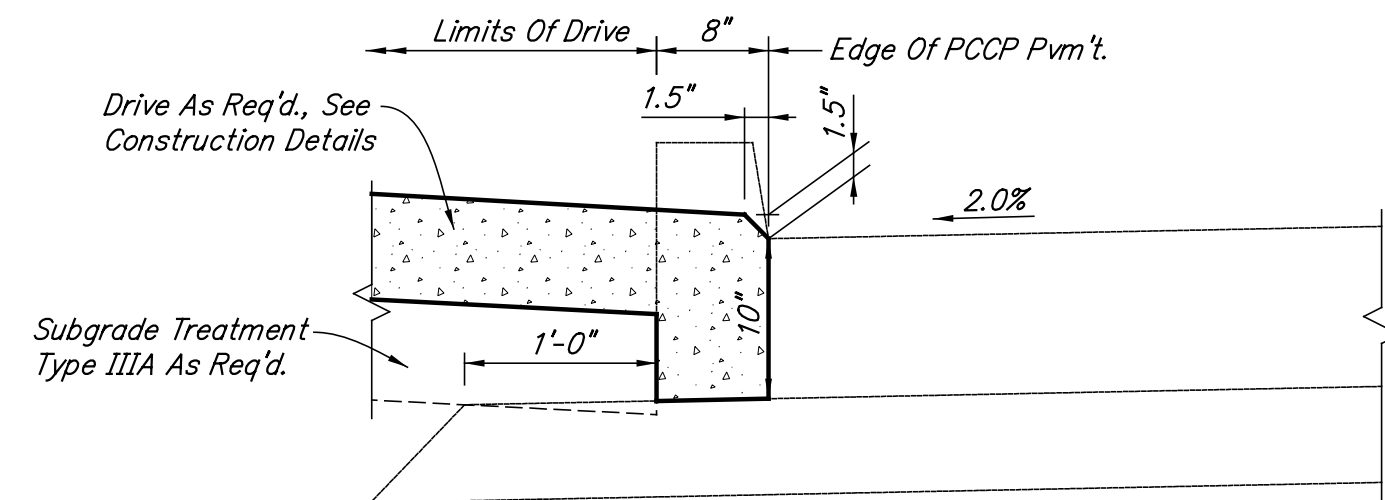
HMA SECTION SHOWING GUARDRAIL ADJACENT TO SIDEWALK
 126+44.88 "PR-A" to 126+50.35 "PR-A" LT.
 129+77.37 "PR-A" to 130+13.77 "PR-A" RT.



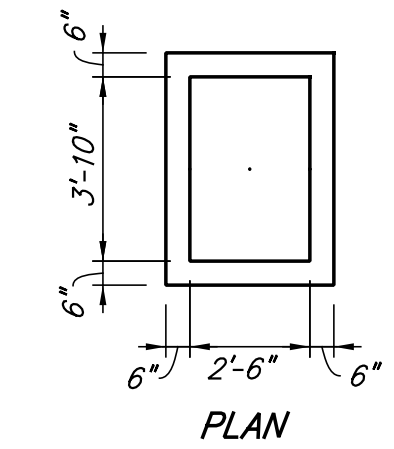
PCCP SECTION SHOWING GUARDRAIL ADJACENT TO SIDEWALK
 126+44.88 "PR-A" to 126+50.35 "PR-A" LT.
 129+77.37 "PR-A" to 130+13.77 "PR-A" RT.



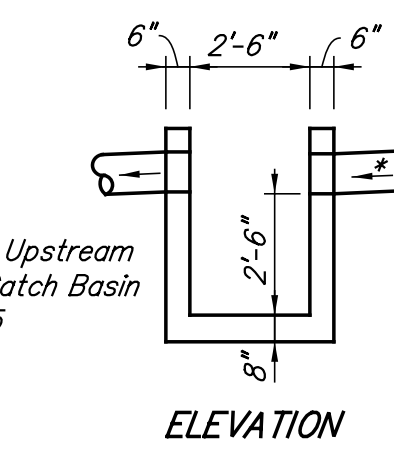
DEPRESSED CONCRETE CURB & GUTTER DETAIL AT DRIVE
 Scale: 1" = 1'-0"



DEPRESSED INTEGRAL CONCRETE CURB DETAIL AT DRIVE
 Scale: 1" = 1'-0"



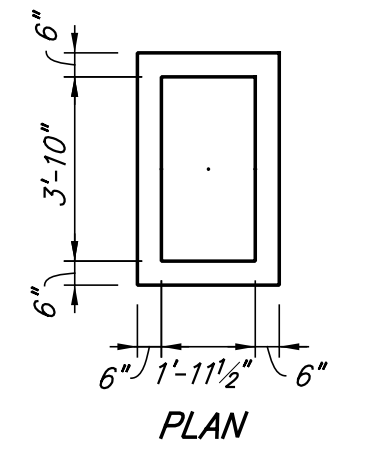
PLAN



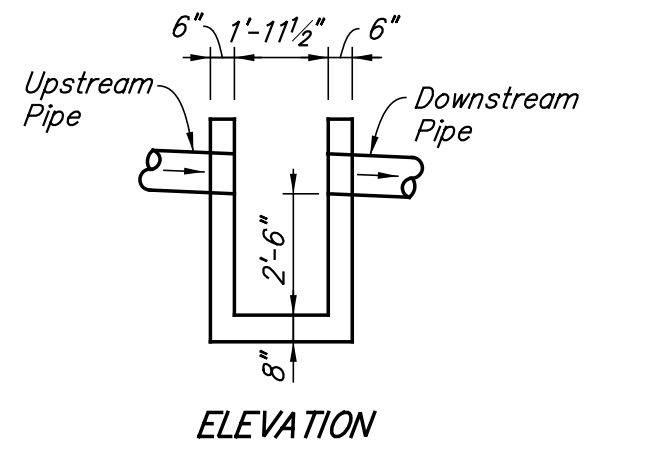
ELEVATION

* Remove Upstream Pipe for Catch Basin Type B-15

CATCH BASIN TYPE C-15

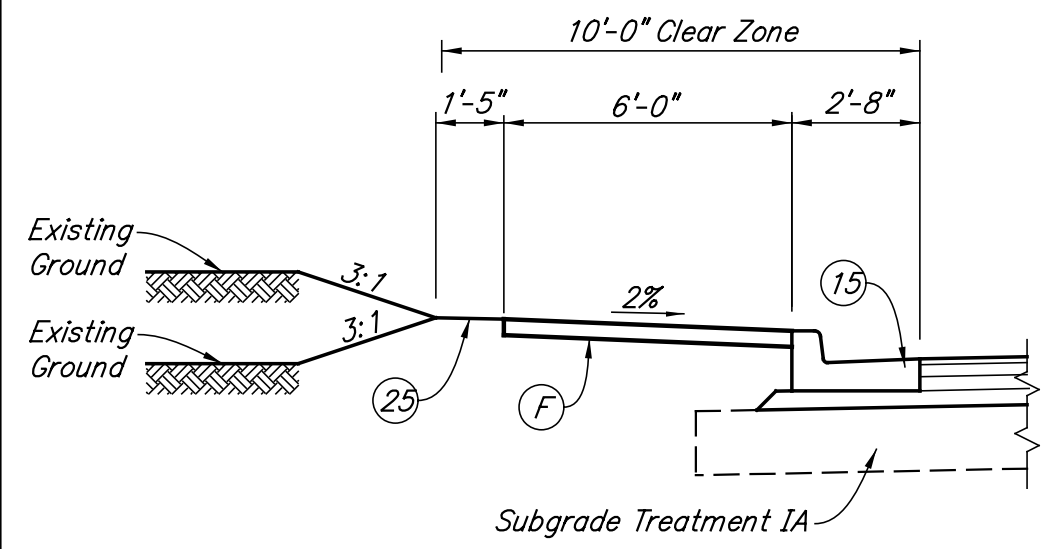


PLAN

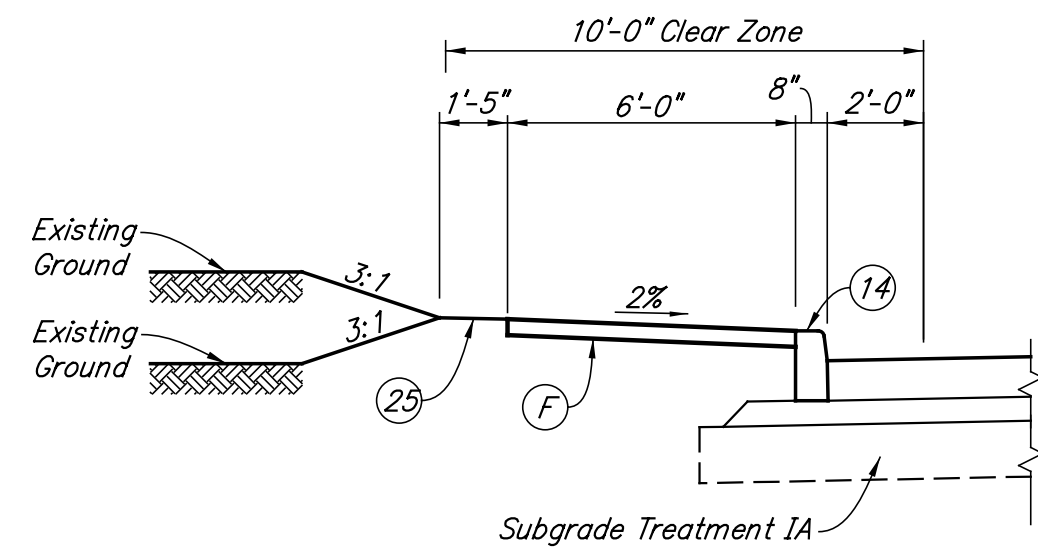


ELEVATION

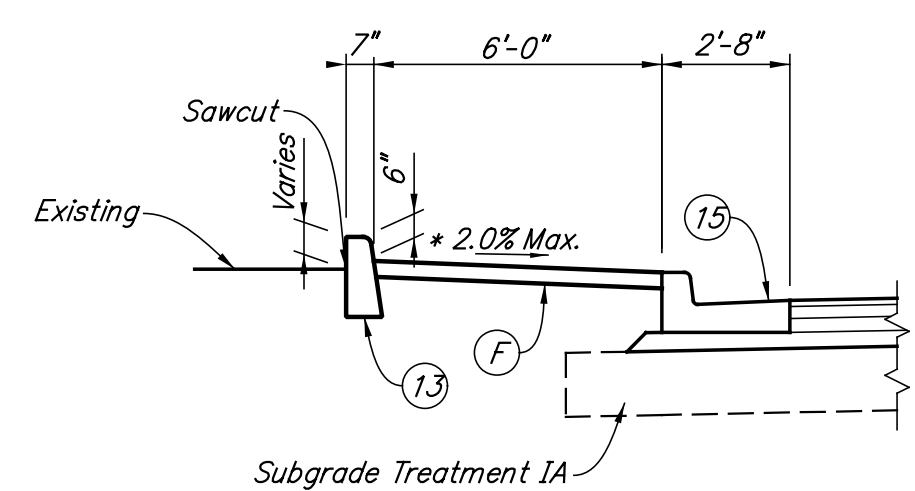
CATCH BASIN TYPE HA



HMA SECTION SHOWING BACKSLOPE
 117+97.77 "PR-A" to 120+00.00 "PR-A" RT.
 119+75.00 "PR-A" to 125+94.88 "PR-A" LT.
 149+75.00 "PR-A" to 152+07.11 "PR-A" RT.

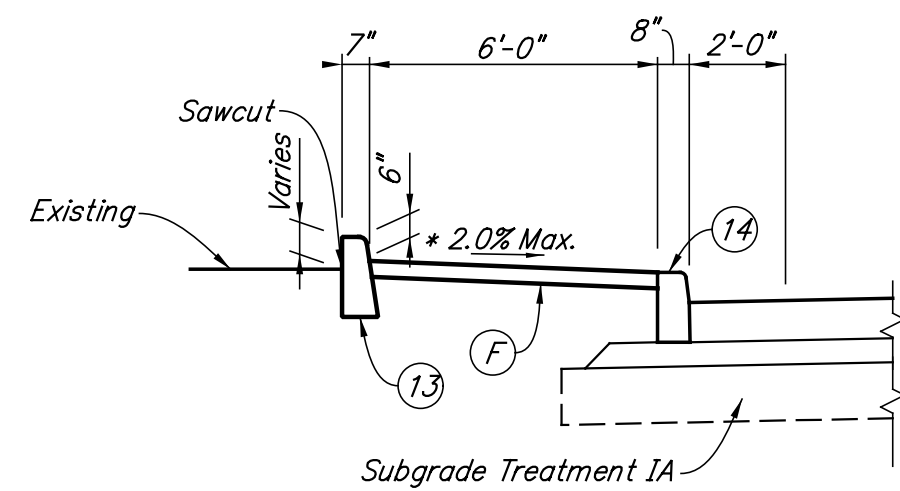


PCCP SECTION SHOWING BACKSLOPE
 117+97.77 "PR-A" to 120+00.00 "PR-A" RT.
 119+75.00 "PR-A" to 125+94.88 "PR-A" LT.
 149+75.00 "PR-A" to 152+07.11 "PR-A" RT.



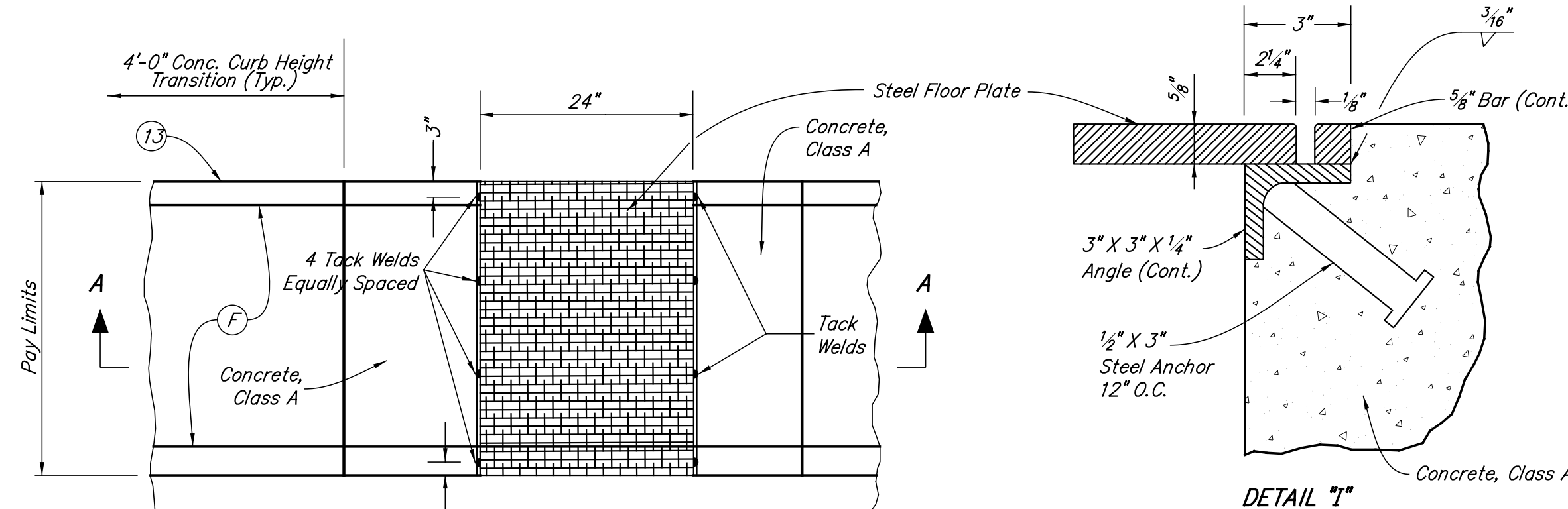
NOTE:
 * See Spot Elevation Details

HMA SECTION SHOWING SIDEWALK WITH CURB
 118+74.27 "PR-A" to 119+44.40 "PR-A" LT.
 149+88.20 "PR-A" to 150+13.39 "PR-A" LT.
 151+13.41 "PR-A" to 151+92.46 "PR-A" LT.

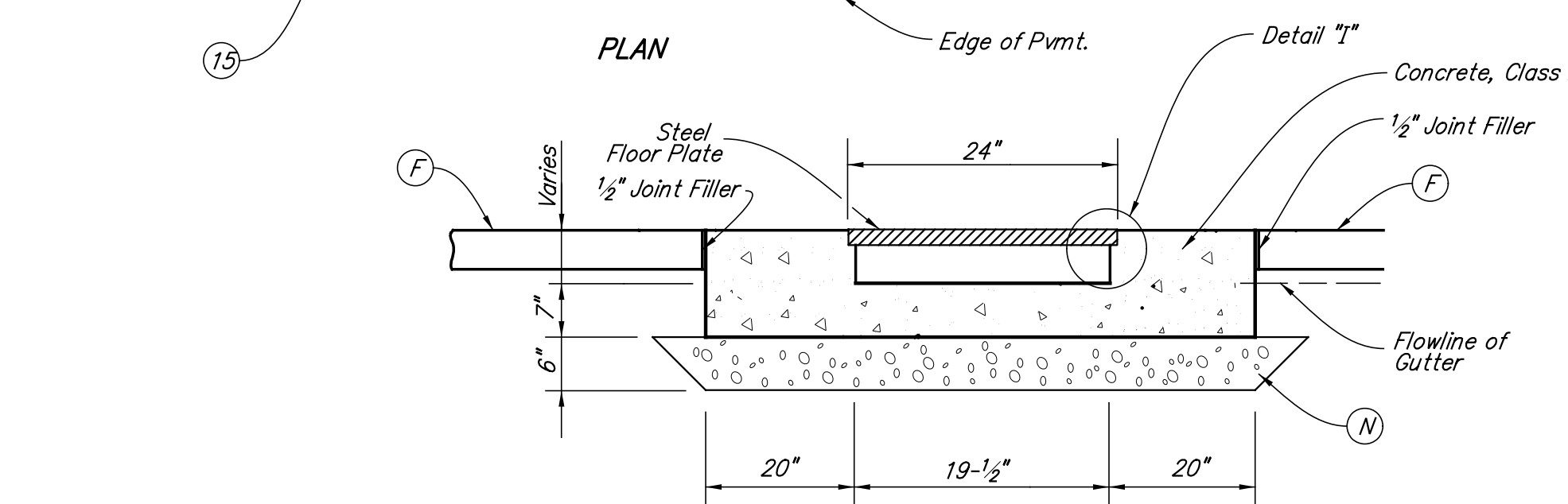


NOTE:
 * See Spot Elevation Details

PCCP SECTION SHOWING SIDEWALK WITH CURB
 118+74.27 "PR-A" to 119+44.40 "PR-A" LT.
 149+88.20 "PR-A" to 150+13.39 "PR-A" LT.
 151+13.41 "PR-A" to 151+92.46 "PR-A" LT.



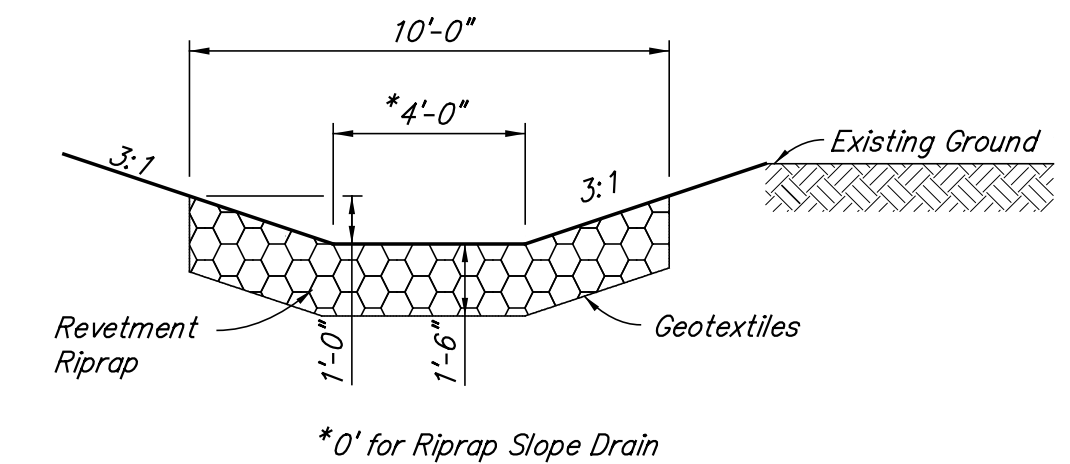
DETAIL "1"



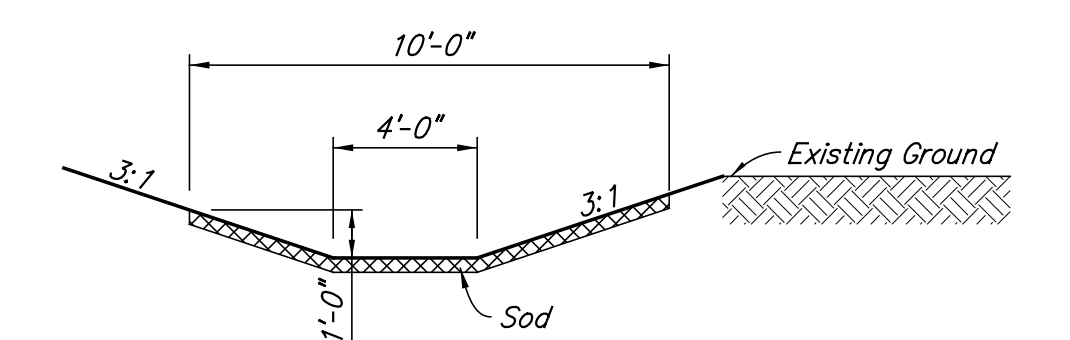
SECTION A-A

NOTES:
 1. All exposed metal parts shall be galvanized and all galvanizing damaged by fabrication or installation shall receive two coats of aluminum paint
 2. See Spot Elevation Details

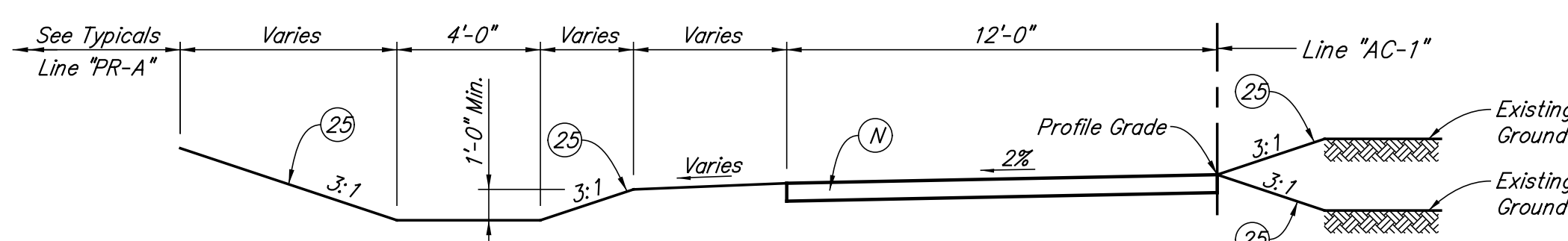
CURB AND GUTTER TURNOUT, CONCRETE, MODIFIED
 Not to Scale



TYPICAL RIPRAP DITCH DETAIL

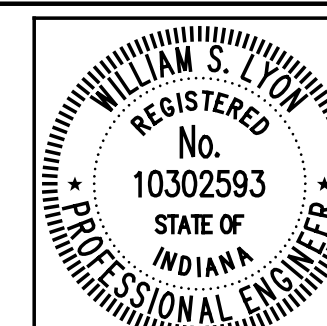


TYPICAL SODDED DITCH DETAIL



R.R. ACCESS ROAD - LINE "AC-1"
 10+00.00 "AC-1" to 16+44.58 "AC-1"

LEGEND		
(A) QC/QA-PCCP, 10 In. With D-1 Contraction Joints Spaced at 16'-0" Max. on 6 In. Dense Graded Subbase	(G) Reinforced Concrete Moment Slab, 12 In., Modified	(N) 6" Compacted Aggregate, No. 53, Base
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(H) Underdrain for MSE Wall	(13) Curb, Concrete
(F) Sidewalk, Concrete, 4"	(K) 165 #/Syd. QC/QA HMA, 3, 70, Surface 9.5 mm, on 330 #/Syd. QC/QA HMA, 3, 70, Intermediate 19.0 mm, on 715 #/Syd. QC/QA HMA, 3, 64, Base 19.0 mm (Min. 2 Lifts)	(14) Curb, Integral, C, Concrete
		(15) Curb and Gutter, C, Concrete
		(25) Seed Mixture, "U"
		(26) Sodding
		(2) Railing, Concrete, FT
		(3) Concrete Barrier, 33 In., Modified
		(6) Longitudinal Joint
		(10) Paved Side Ditch, Type A



RECOMMENDED FOR APPROVAL	<i>William S. Taylor</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	NRM	DRAWN:
		BNM
CHECKED:	DAD/WSL	CHECKED:
		DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS LINE "AC-1" AND MISCELLANEOUS DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0", UNLESS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	4 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

105

110

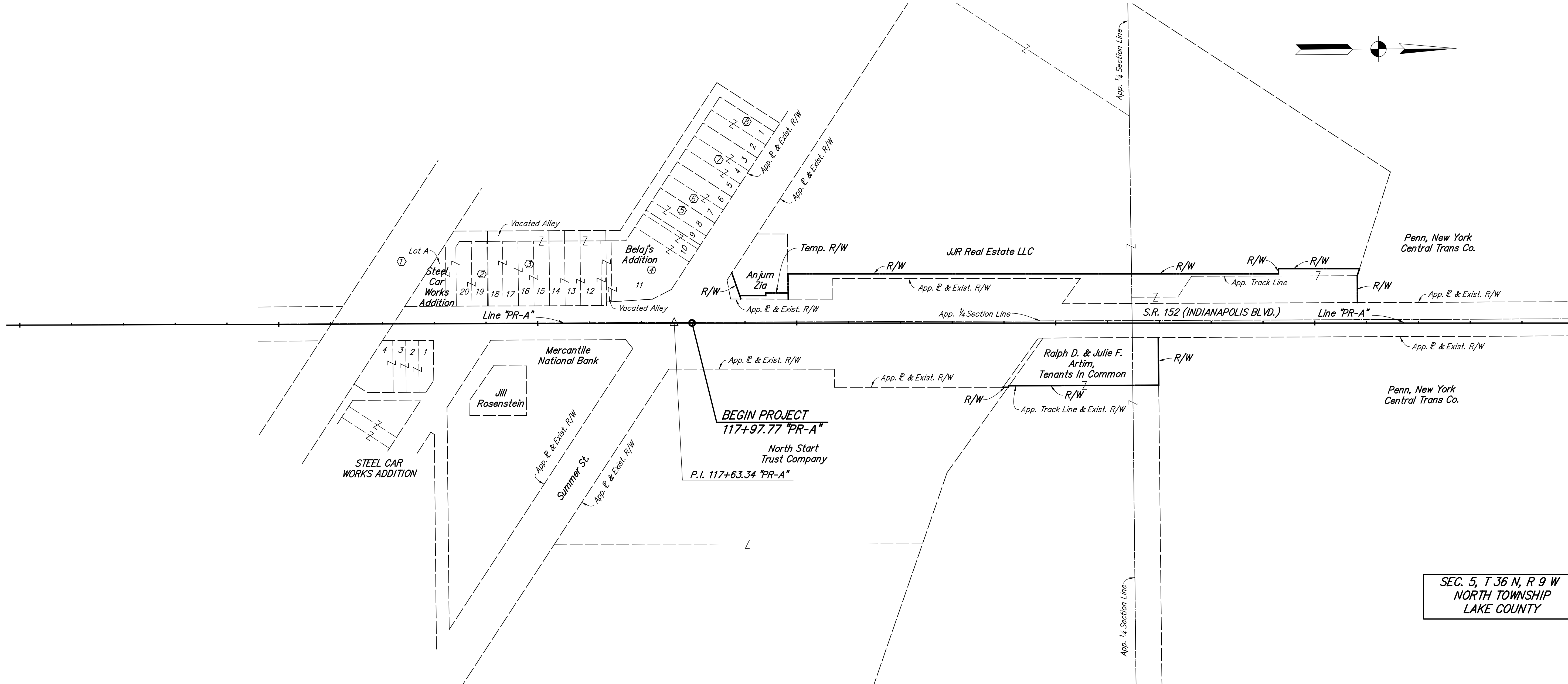
115

120

125

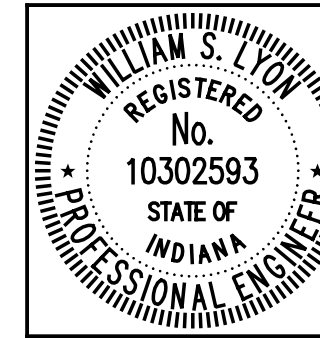
130

135



SEC. 5, T 36 N, R 9 W
 NORTH TOWNSHIP
 LAKE COUNTY

SECTION	INDEX NO.	OWNER
5	①	The New York, Chicago & St. Louis Railway Co.
5	②	Calumet National Bank
5	③	Stanley R. Long Et Al
5	④	Stanley R. & Anne L. Long
5	⑤	Joseph R. Piech & Kenneth M. Pannell
5	⑥	Joseph R. Piech
5	⑦	Joseph R. Piech & Kenneth M. Pannell
5	⑧	AMOCO Pipeline Co.



RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012
DESIGNED:	BNM	DATE
CHECKED:	DAD	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'-0"	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	5 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

135

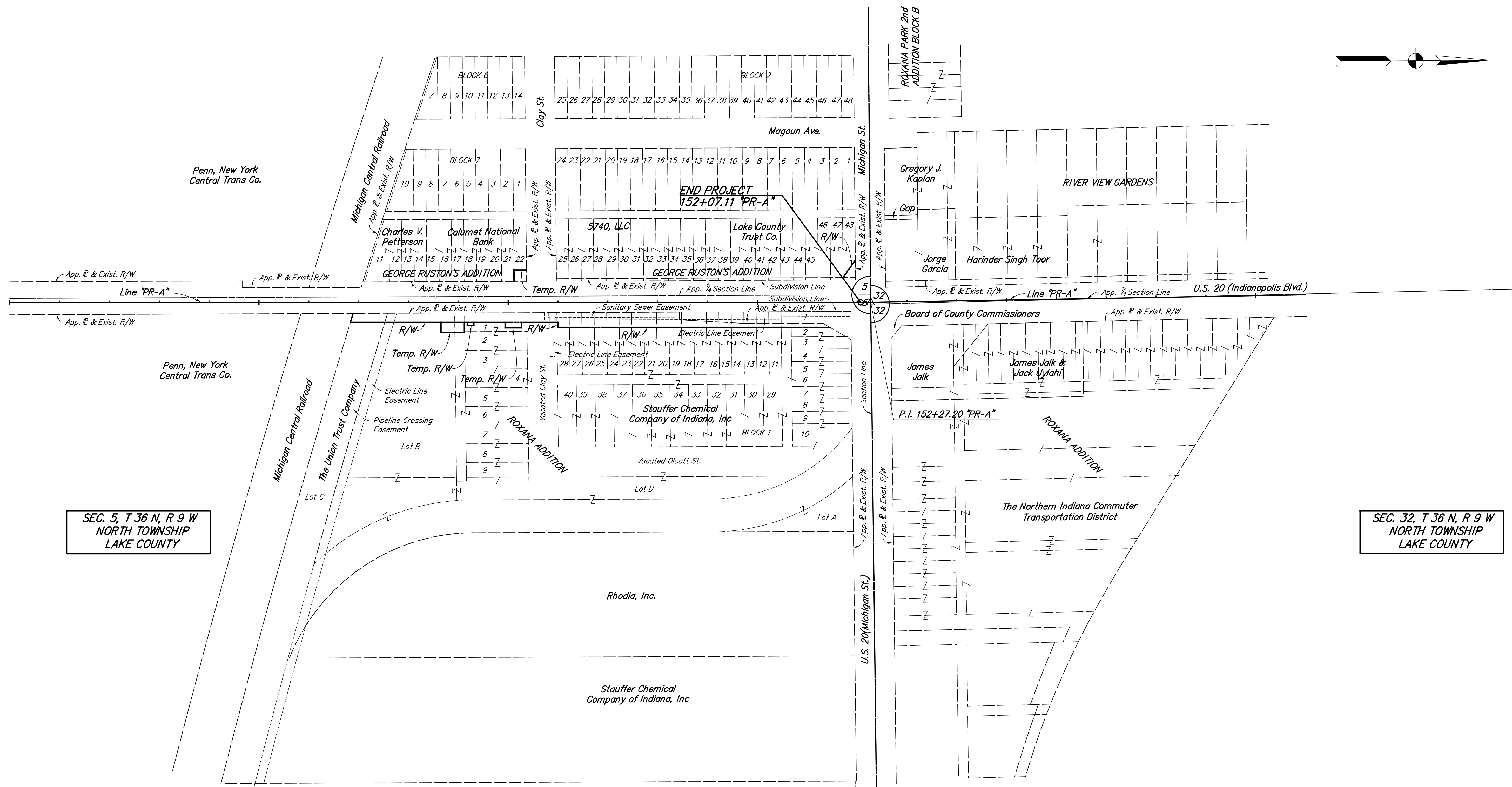
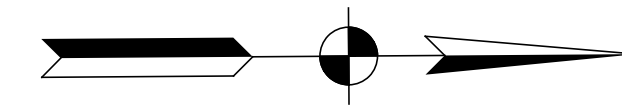
140

145

150

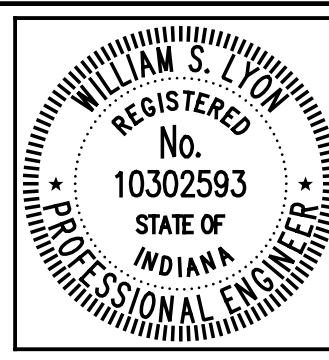
155

160



SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

SEC. 32, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY



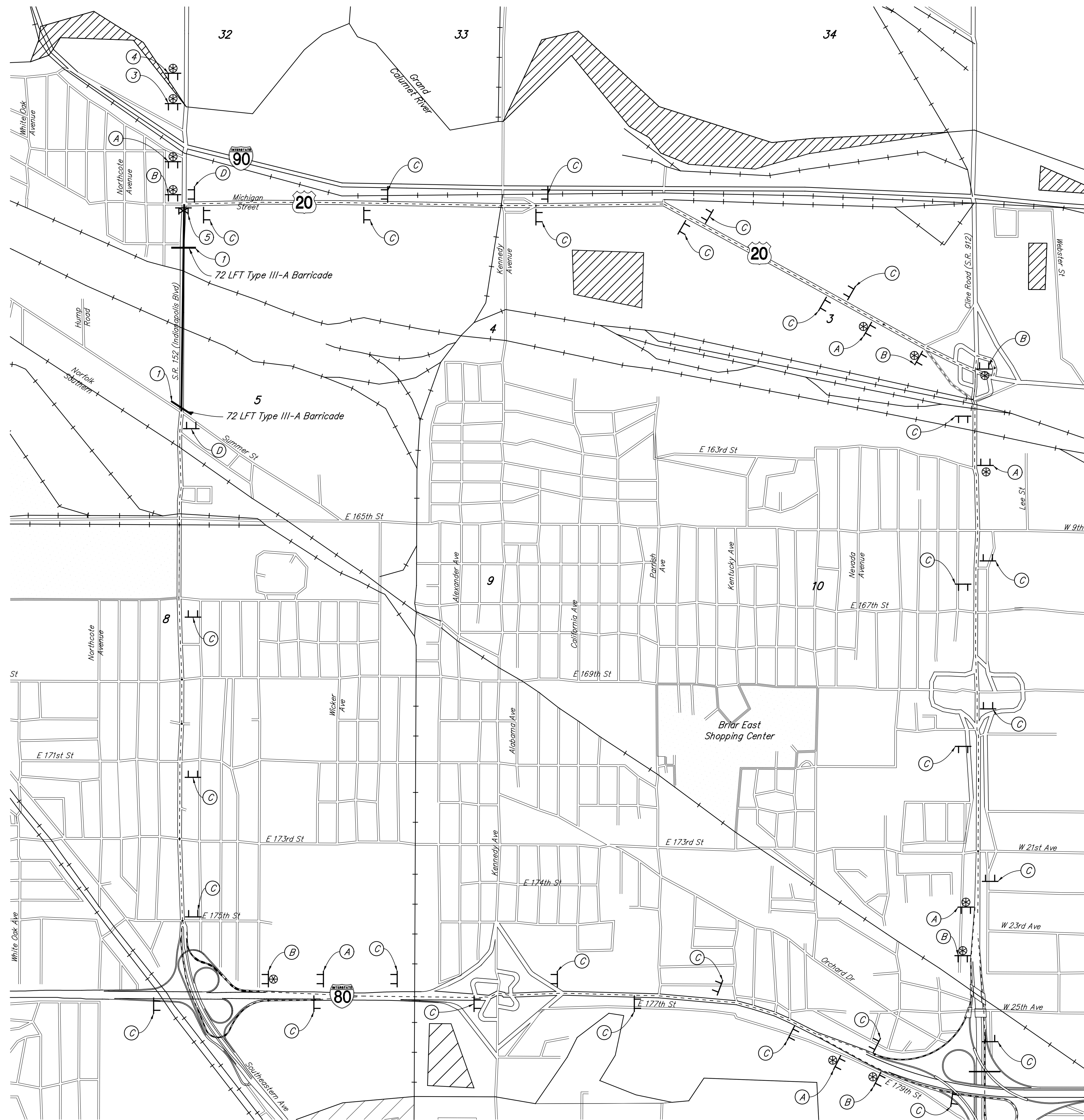
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: BNM DRAWN: BNM
CHECKED: DAD CHECKED: DAD

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE 1" = 100'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 6 of 149
CONTRACT B-33357	PROJECT NO. N881008



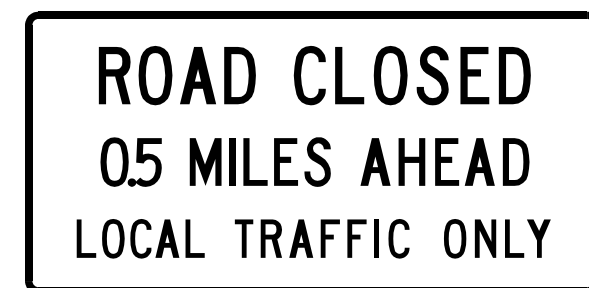
DETOUR QUANTITIES		
PAY ITEMS	TOTAL QUANTITY	PAY QUANTITY
Road Closure Sign Assembly (R11-2)	(1) 2	EACH
Road Closure Sign Assembly (R11-3a)	(2) 0	EACH
Construction Sign, A	(3) 1	EACH
Construction Sign, A (x3)	(4) 3	EACH
Road Closure Sign Assembly (R11-3a, XM4-10(R))	(5) 1	EACH
Detour Route Marker Assembly	(A) 6	EACH
Detour Route Marker Assembly	(B) 6	EACH
Detour Route Marker Assembly	(C) 29	EACH
Detour Route Marker Assembly	(D) 2	EACH
Type III-A Barricade	144	LFT



(1)
Road Closure Sign Assembly (R11-2)
48" x 30"



(2)
Road Closure Sign Assembly (R11-3a)
60" x 30"



(5)
Road Closure Sign Assembly (R11-3a)
60" x 30"
(XM4-10(R))
48" x 18"



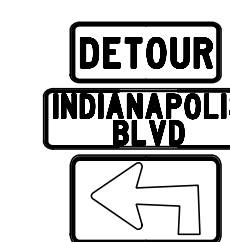
(3)
Detour Ahead (XW20-2)
48" x 48"



(4)
Road Closed Ahead (XW20-3)
48" x 48"



(A)
XM4-8 SPECIAL M5-1(R)S



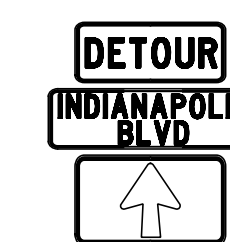
(B)
XM4-8 SPECIAL M5-1(L)S



(C)
XM4-8 SPECIAL M6-3S



(D)
M4-6S XM4-8 SPECIAL

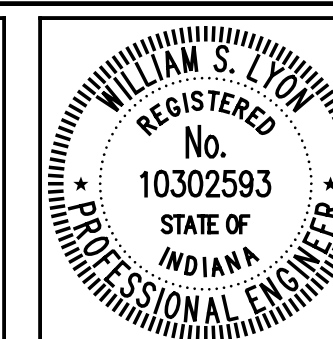


(C)
XM4-8 SPECIAL M6-3S



(D)
M4-6S XM4-8 SPECIAL

LEGEND



RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

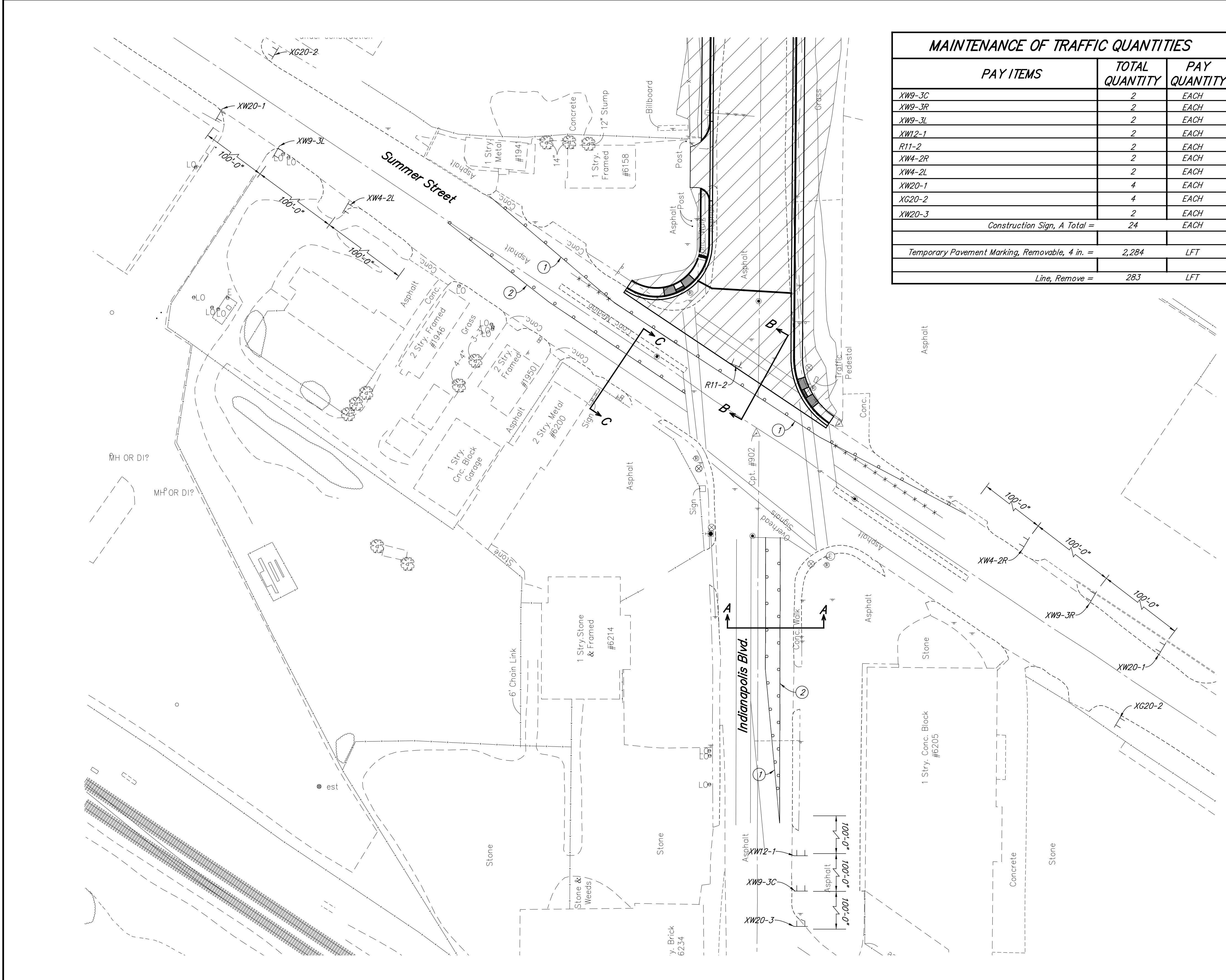
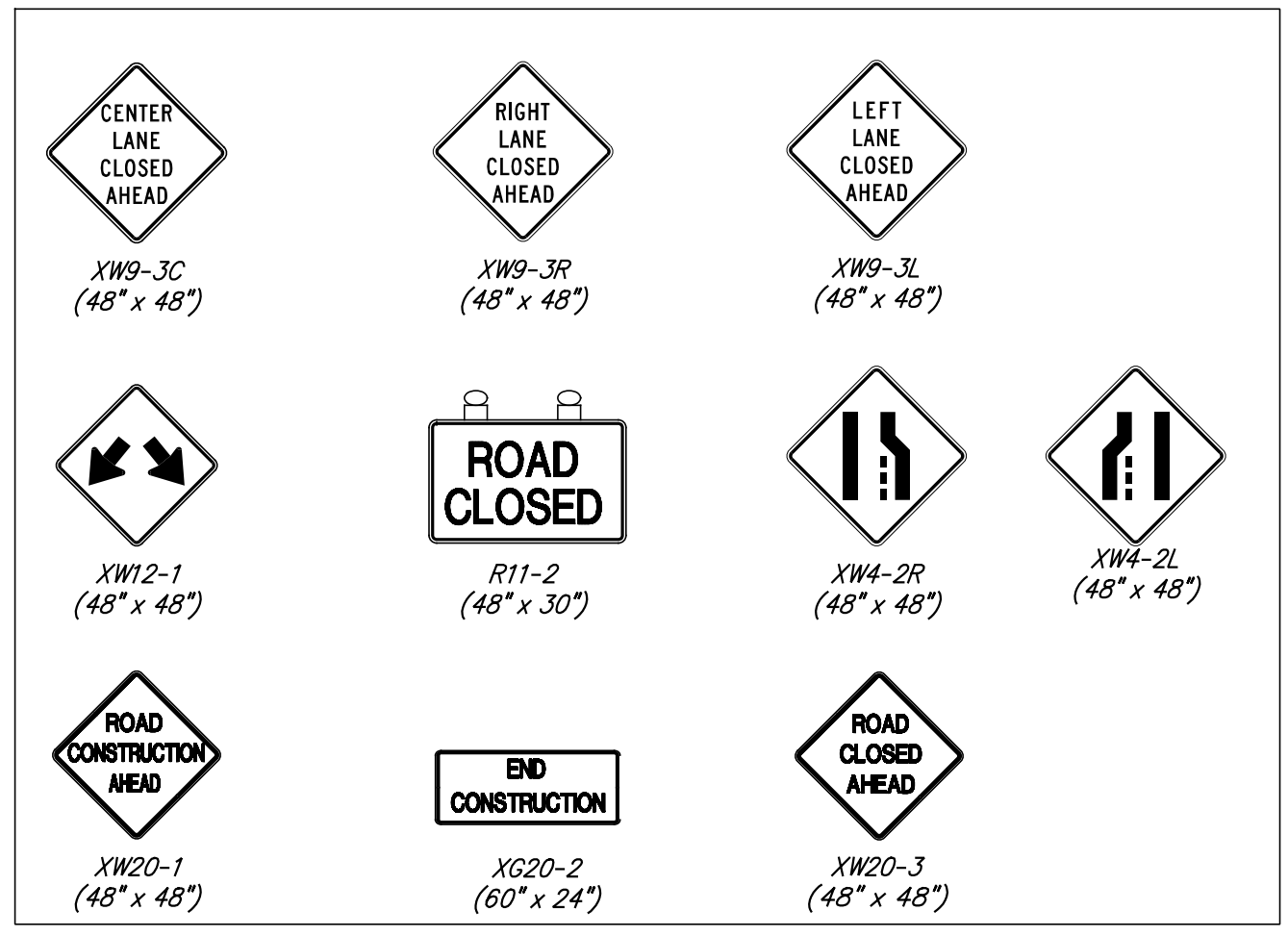
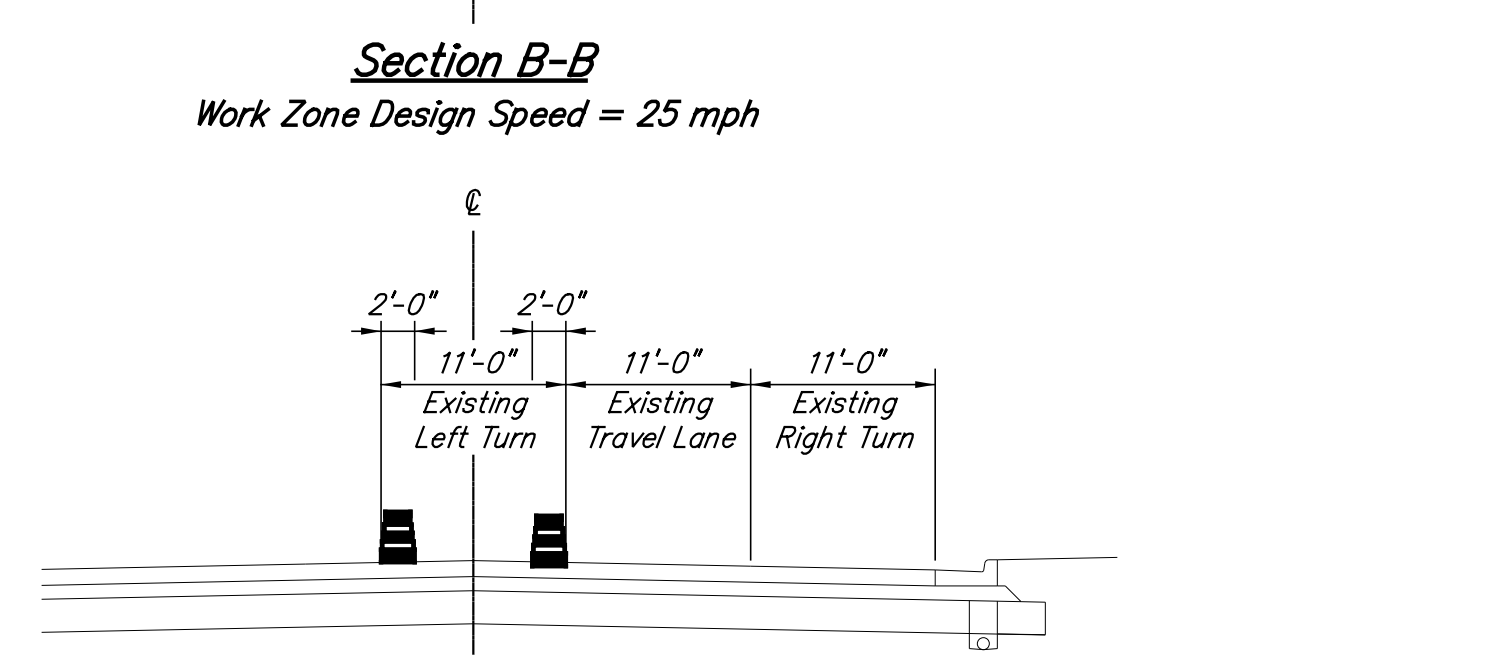
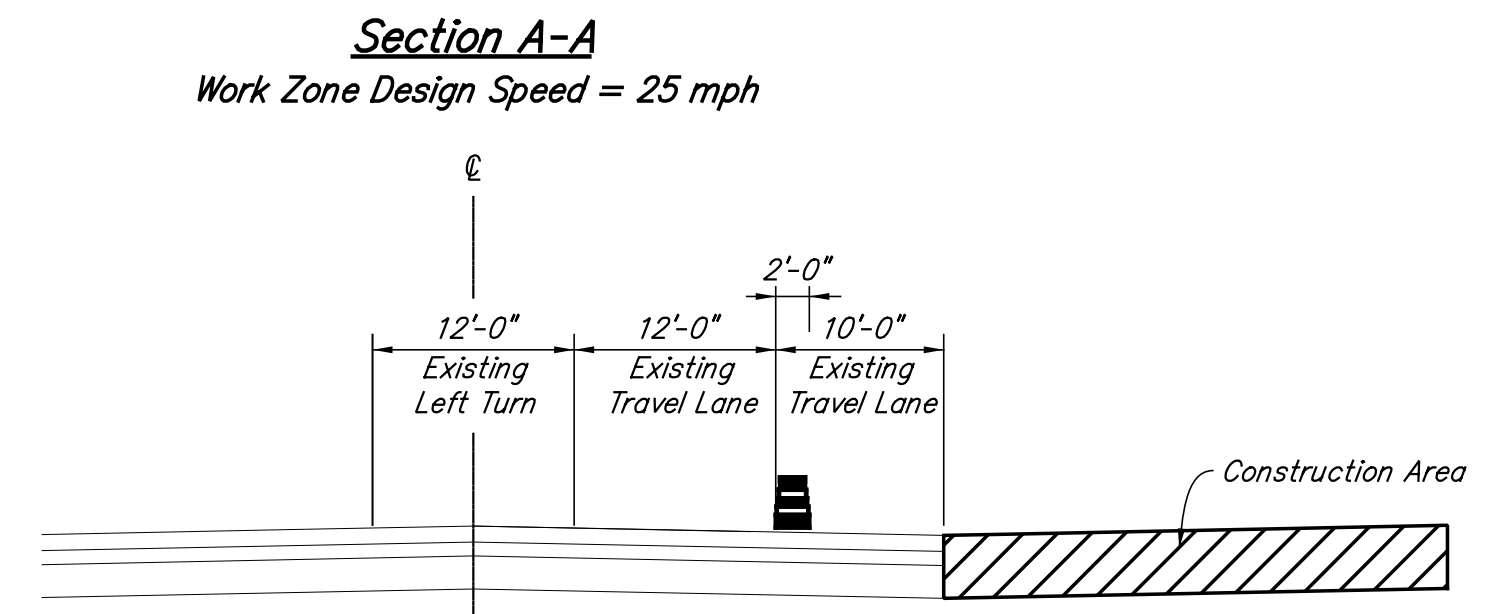
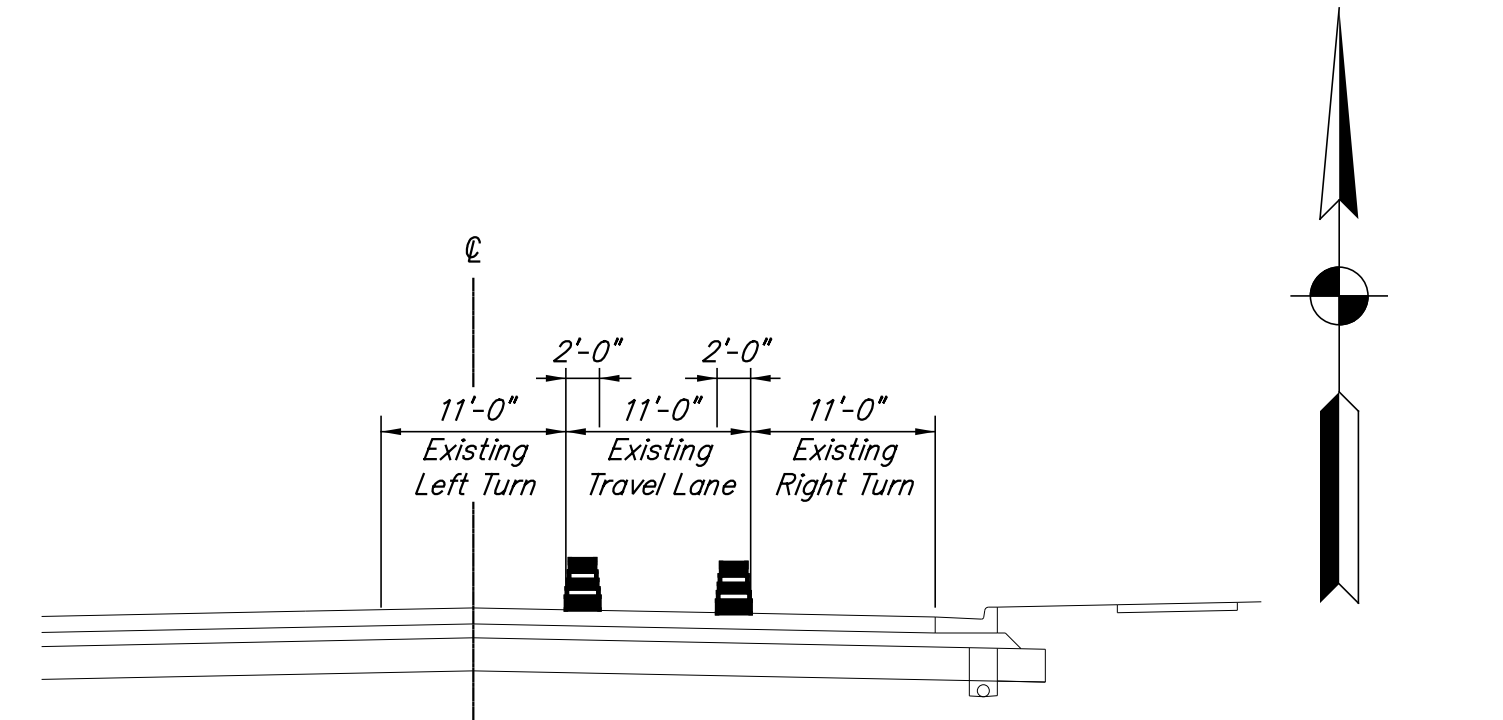
DESIGNED: NRM DRAWN: NRM
CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

HORIZONTAL SCALE 1" = 1000'	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 7 of 149
CONTRACT B-33357	PROJECT NO. N881008

MAINTENANCE OF TRAFFIC QUANTITIES		
PAY ITEMS	TOTAL QUANTITY	PAY QUANTITY
XW9-3C	2	EACH
XW9-3R	2	EACH
XW9-3L	2	EACH
XW12-1	2	EACH
R11-2	2	EACH
XW4-2R	2	EACH
XW4-2L	2	EACH
XW20-1	4	EACH
XG20-2	4	EACH
XW20-3	2	EACH
Construction Sign, A Total =		24 EACH
Temporary Pavement Marking, Removable, 4 in. =		2,284 LFT
Line, Remove =		283 LFT



LEGEND

①	Temporary Pavement Marking, Removable, 4 in., White
②	Temporary Pavement Marking, Removable, 4 in., Yellow
—X—X—	Line, Remove

RECOMMENDED FOR APPROVAL: *William S. Lyon*, DESIGN ENGINEER, 6/1/2012 DATE

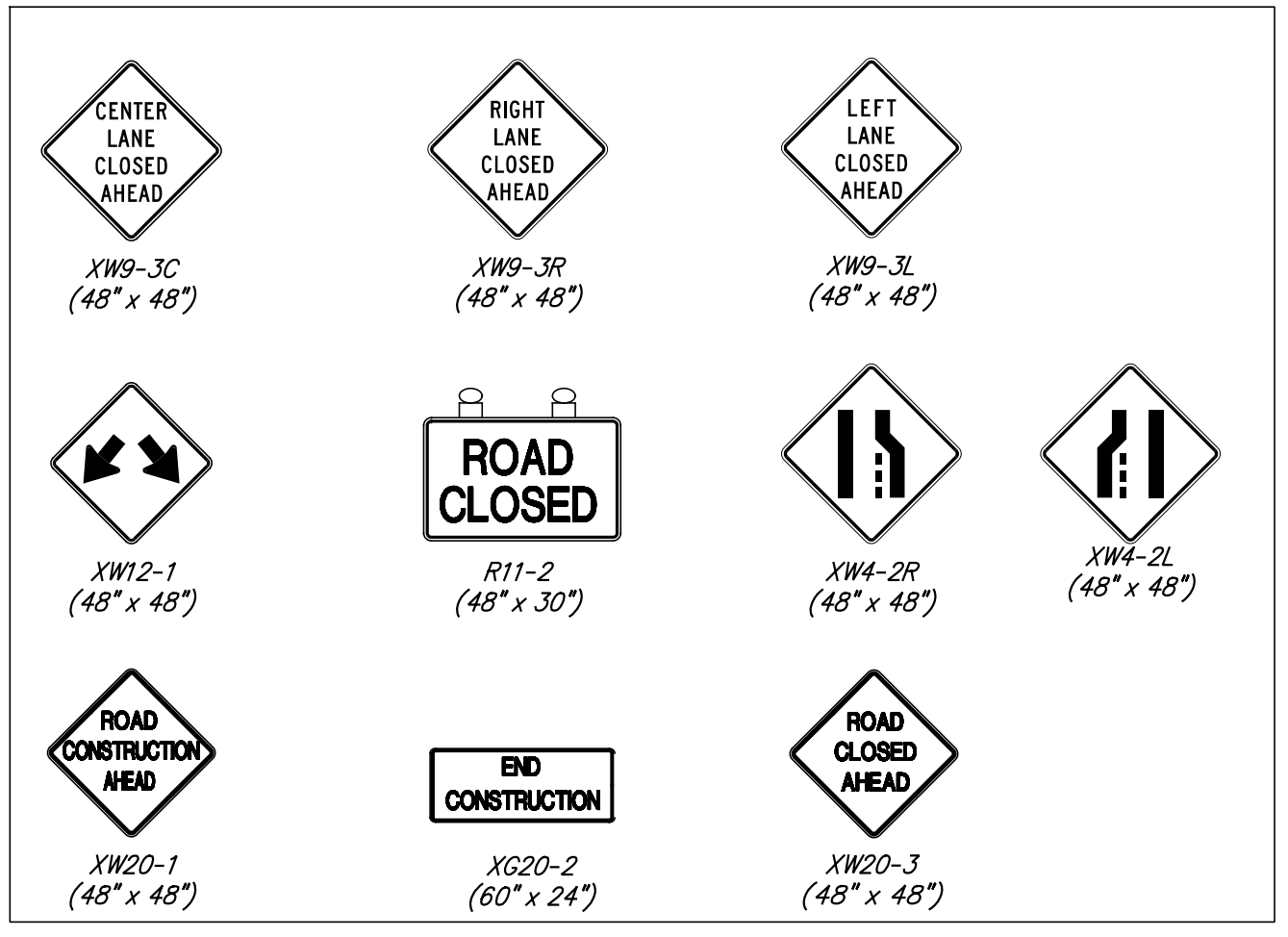
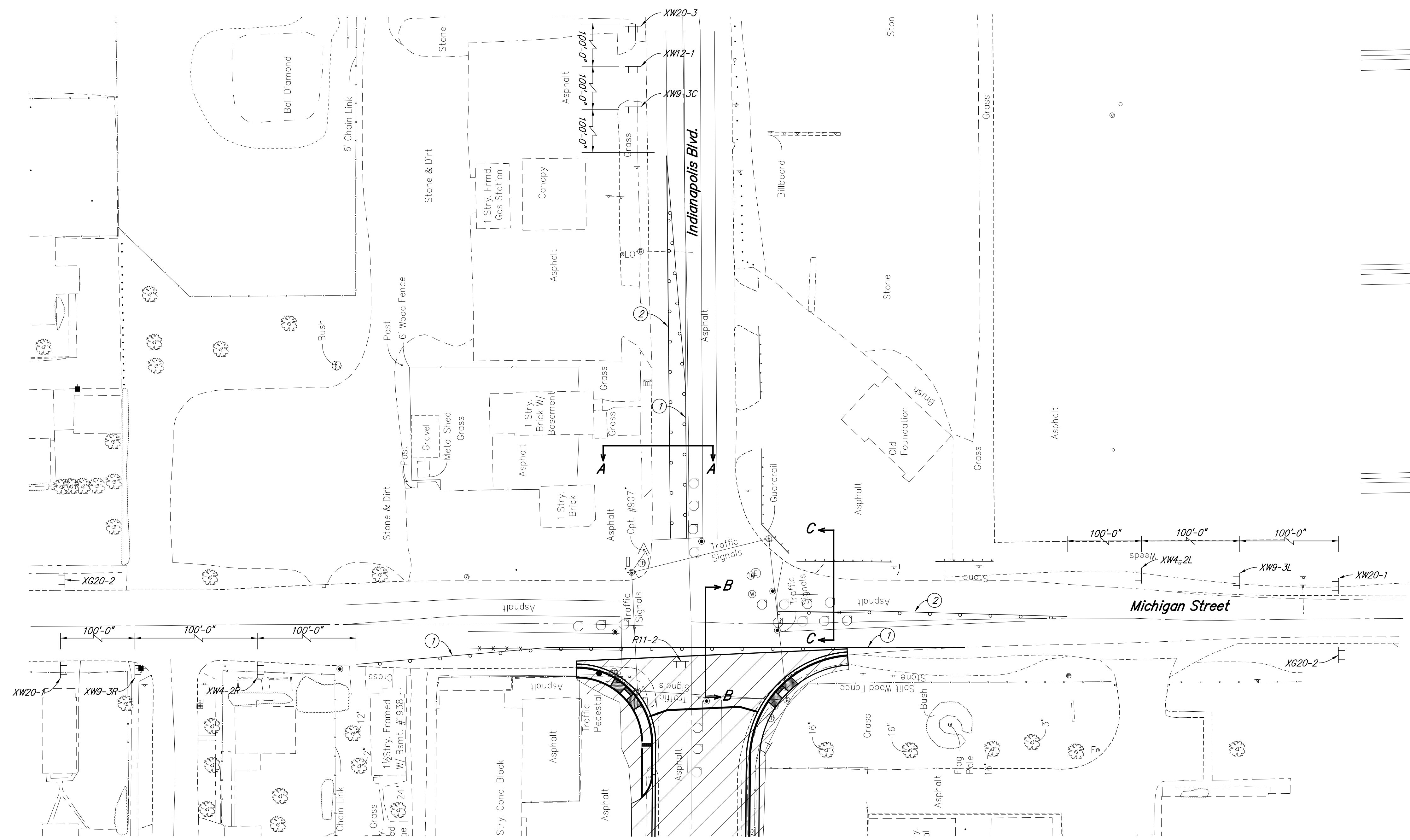
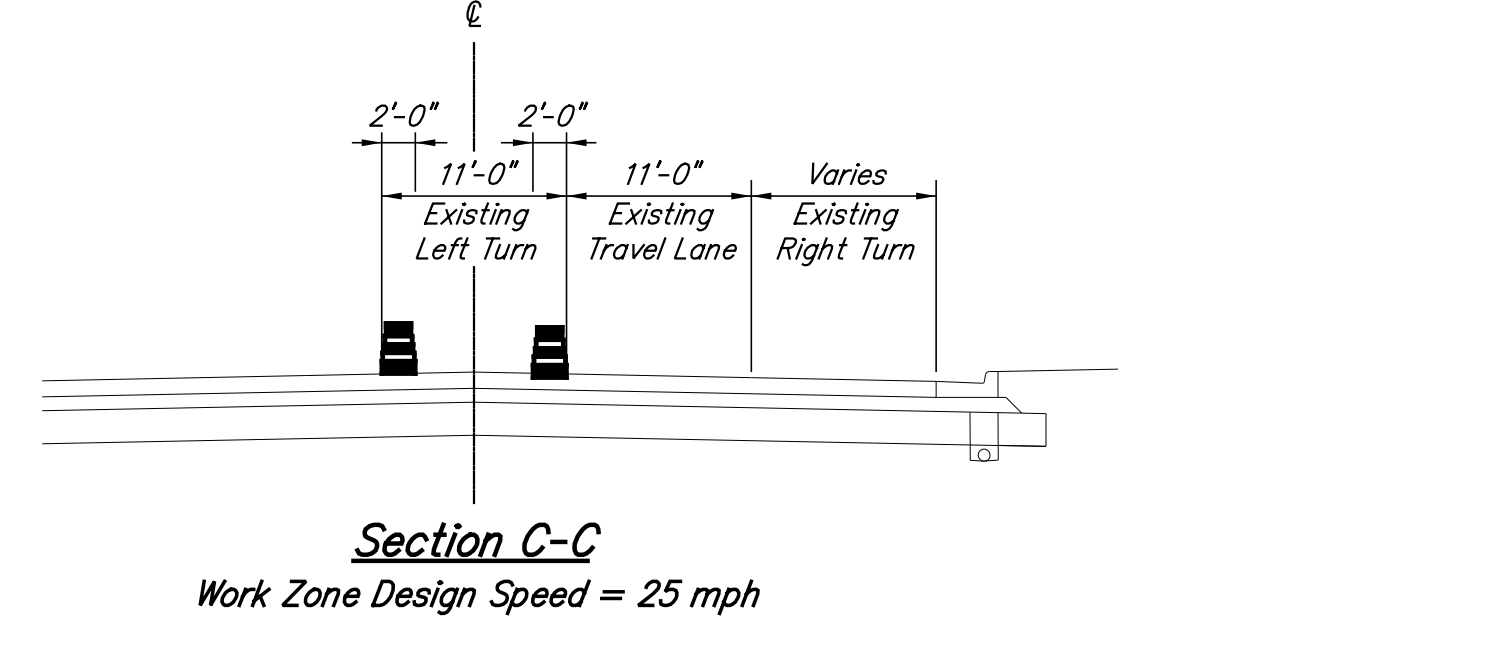
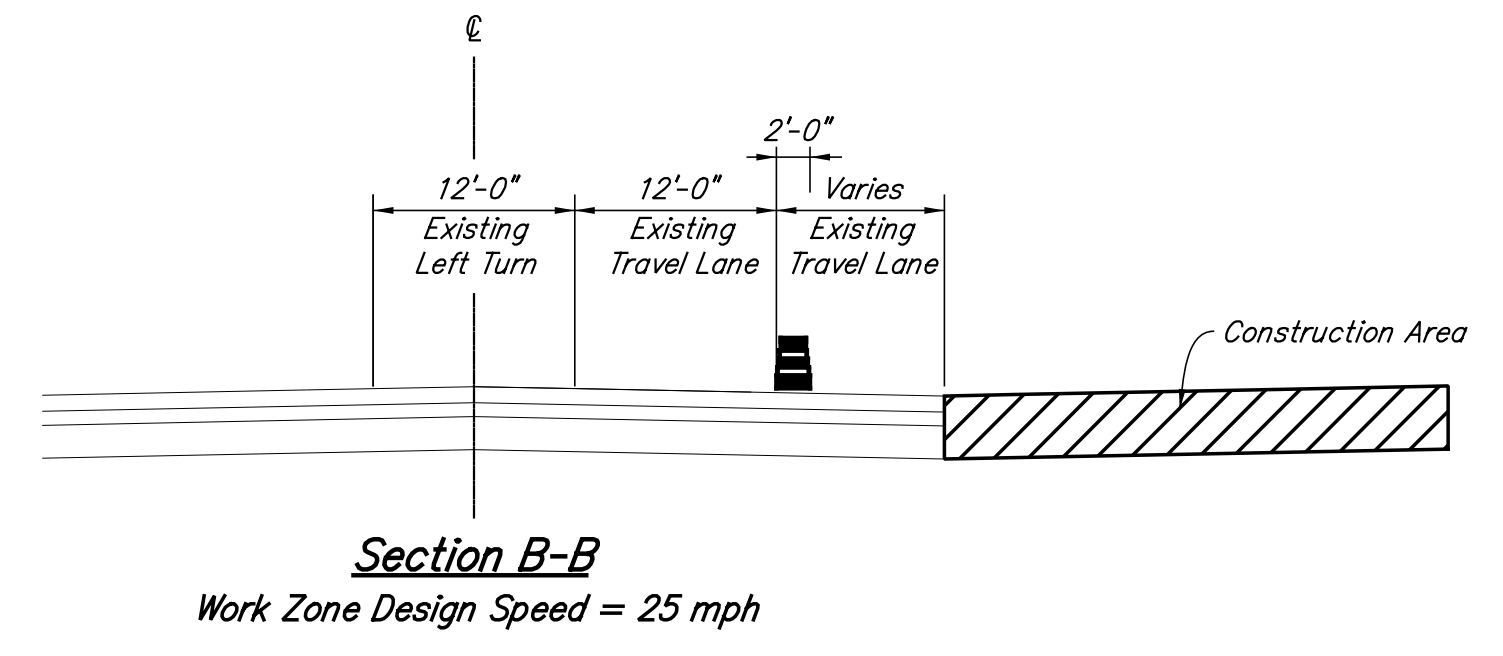
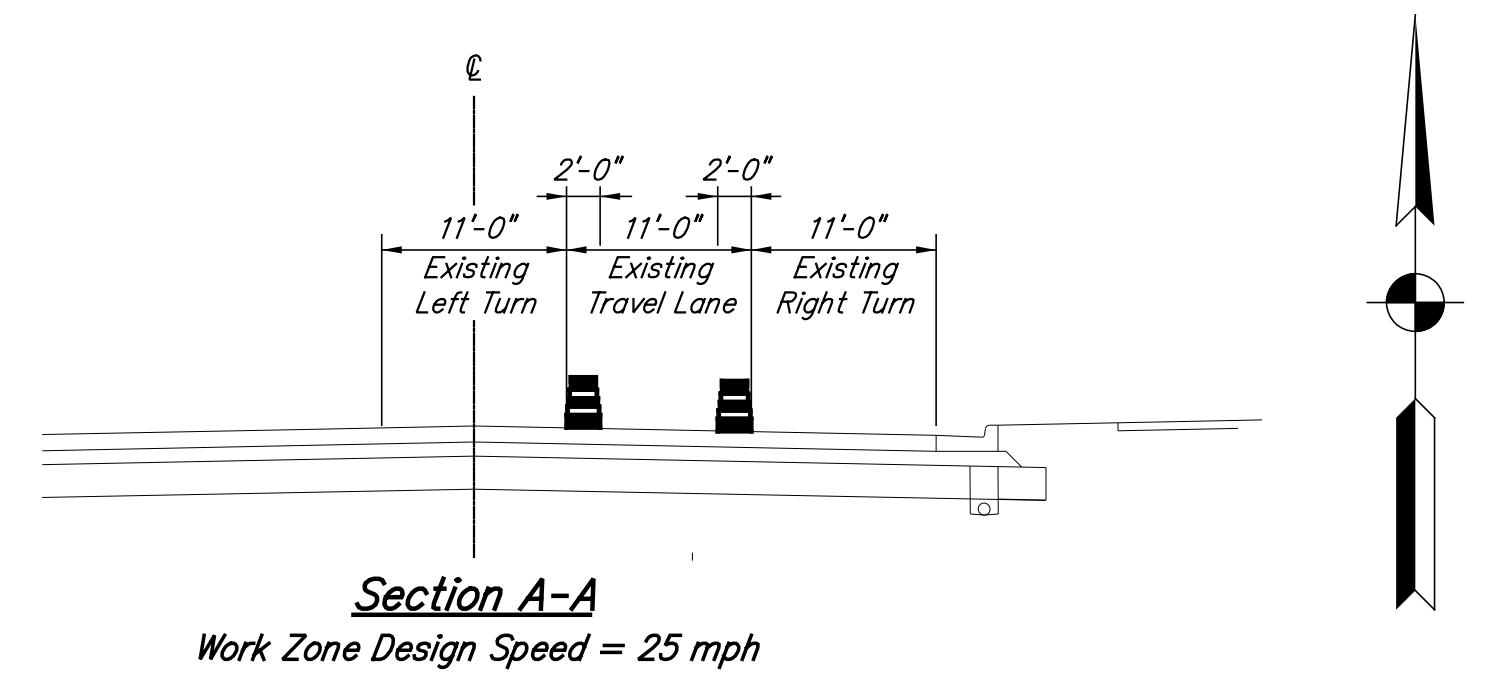
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CHECKED: WSL CHECKED: WSL

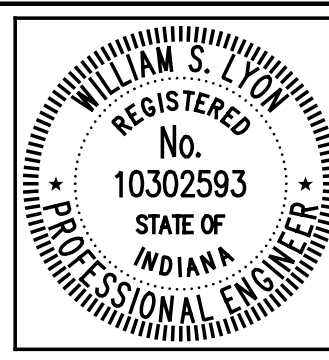
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE I

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK B-33357	SHEETS 8 of 149
CONTRACT B-33357	PROJECT NO. N881008



- LEGEND**
- ① Temporary Pavement Marking, Removable, 4 in., White
 - ② Temporary Pavement Marking, Removable, 4 in., Yellow
 - X—X— Line, Remove



RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012
DESIGNED:	JMT	DRAWN:
CHECKED:	WSL	CHECKED:

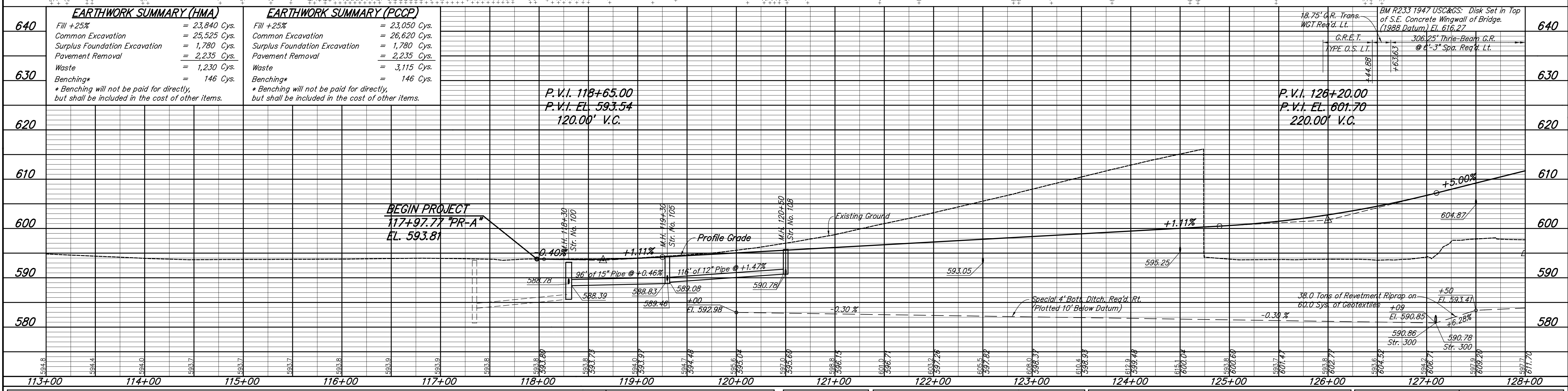
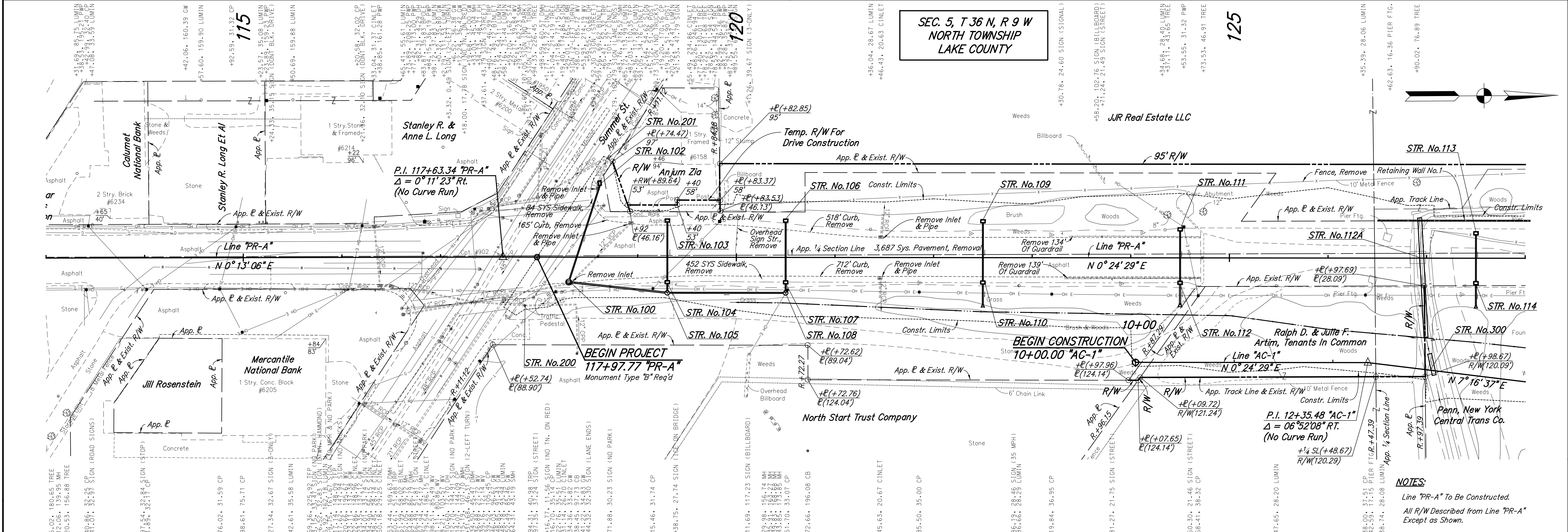
INDIANA
DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC
PHASE I**

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
N/A	0014210
SURVEY BOOK	SHEETS
	9 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

125



EARTHWORK SUMMARY (HMA)		EARTHWORK SUMMARY (PCCP)	
640	Fill +25% = 23,840 Cys.	640	Fill +25% = 23,050 Cys.
	Common Excavation = 25,525 Cys.		Common Excavation = 26,620 Cys.
	Surplus Foundation Excavation = 1,780 Cys.		Surplus Foundation Excavation = 1,780 Cys.
	Pavement Removal = 2,235 Cys.		Pavement Removal = 2,235 Cys.
630	Waste = 1,230 Cys.	630	Waste = 3,115 Cys.
	Benching* = 146 Cys.		Benching* = 146 Cys.
*Benching will not be paid for directly, but shall be included in the cost of other items.		*Benching will not be paid for directly, but shall be included in the cost of other items.	

EARTHWORK SUMMARY (HMA)		EARTHWORK SUMMARY (PCCP)	
640	Fill +25% = 23,840 Cys.	640	Fill +25% = 23,050 Cys.
	Common Excavation = 25,525 Cys.		Common Excavation = 26,620 Cys.
	Surplus Foundation Excavation = 1,780 Cys.		Surplus Foundation Excavation = 1,780 Cys.
	Pavement Removal = 2,235 Cys.		Pavement Removal = 2,235 Cys.
630	Waste = 1,230 Cys.	630	Waste = 3,115 Cys.
	Benching* = 146 Cys.		Benching* = 146 Cys.
*Benching will not be paid for directly, but shall be included in the cost of other items.		*Benching will not be paid for directly, but shall be included in the cost of other items.	

P.V.I. 118+65.00
P.V.I. EL. 593.54
120.00' V.C.

BEGIN PROJECT
117+97.77 "PR-A"
EL. 593.81

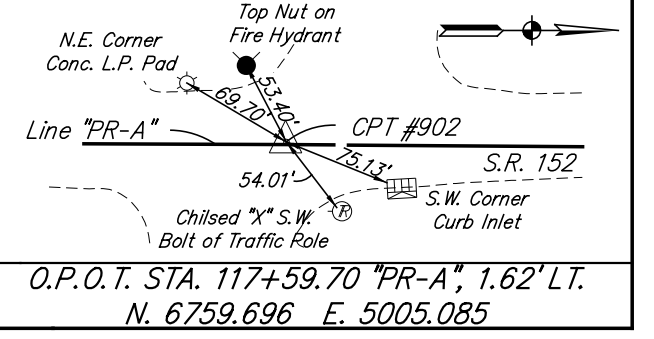
Existing Ground

Profile Grade

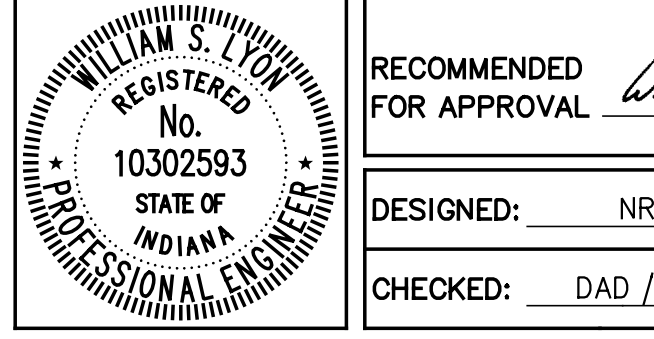
Special 4' Bottom Ditch, Req'd. Rt.
(Plotted 10' Below Datum)

38.0 Tons of Riprap on
60.0 Sys. of Geotextiles

BM R233 1947 USC&GS: Disk Set in Top of S.E. Concrete Wingwall of Bridge. (1988 Datum) EL. 616.27



O.P.O.T. STA. 117+59.70 "PR-A", 1.62' LT.
N. 6.759.696 E. 5005.085



RECOMMENDED FOR APPROVAL
DESIGNED: NRM
DRAWN: RJC
CHECKED: DAD / WSL

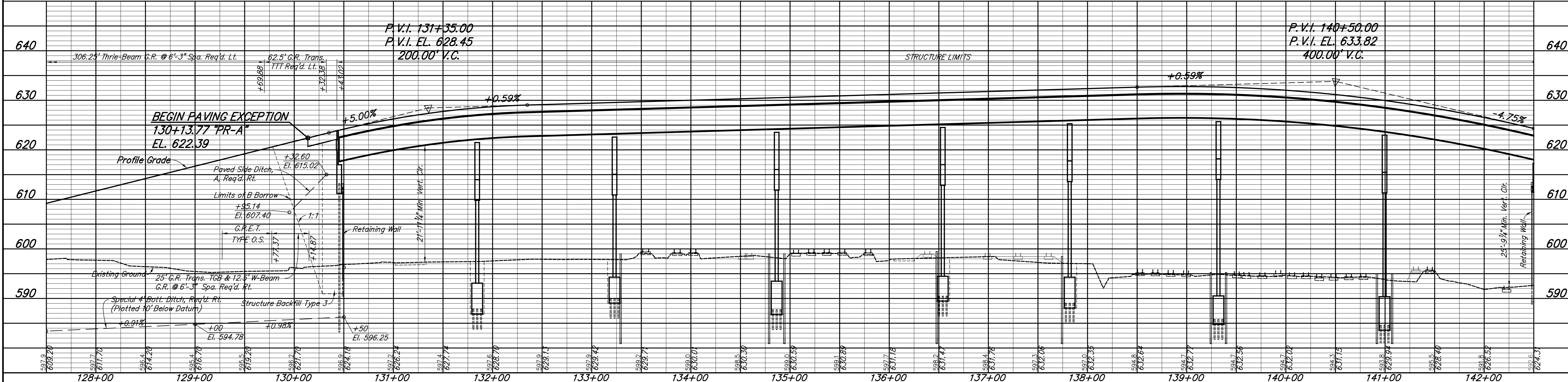
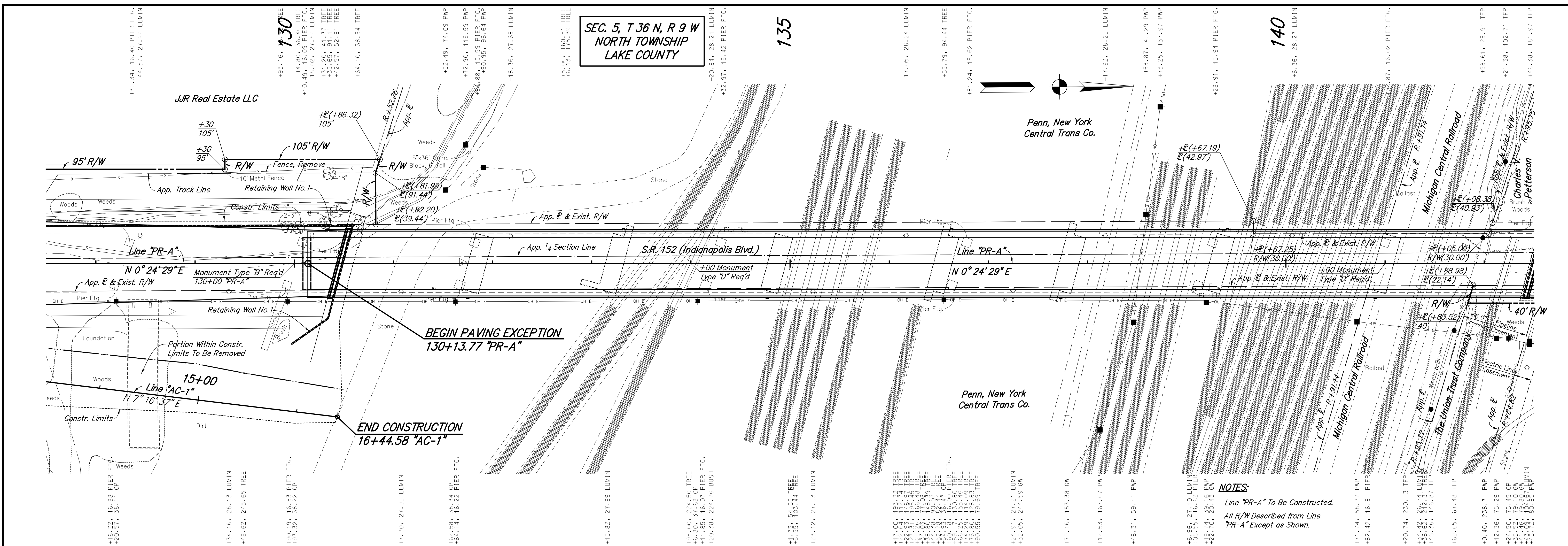
INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE
LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 10 of 149
CONTRACT B-33357	PROJECT NO. N881008

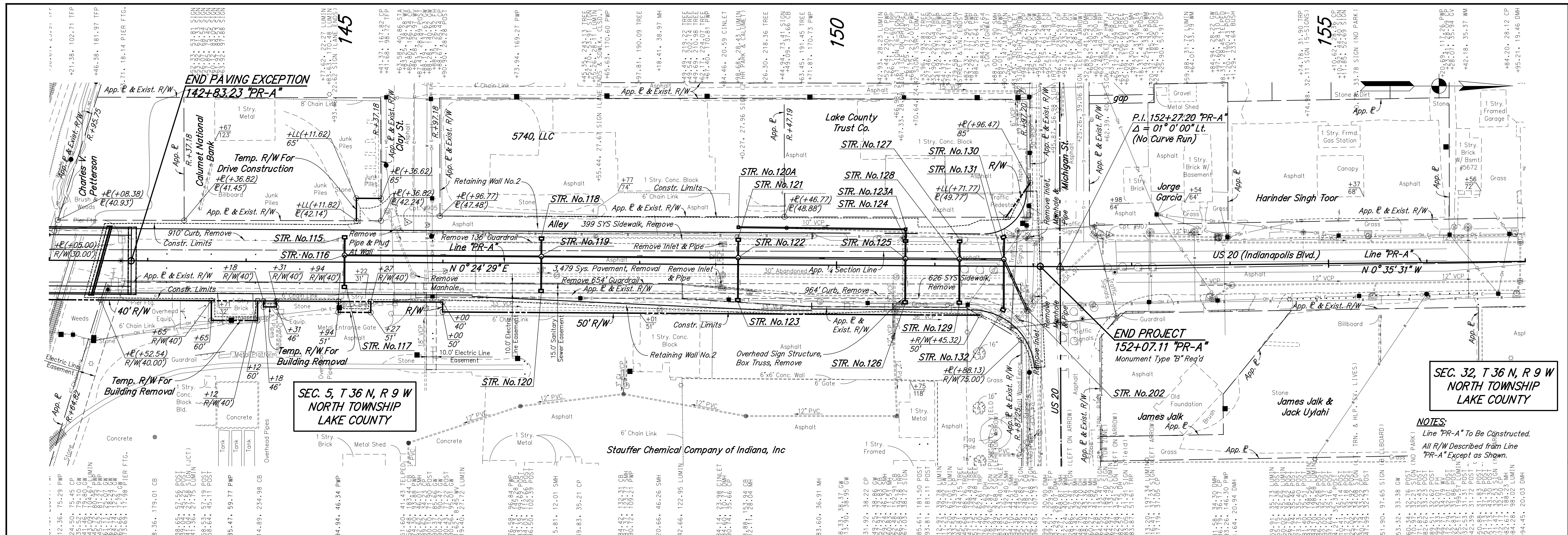
SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

135

140



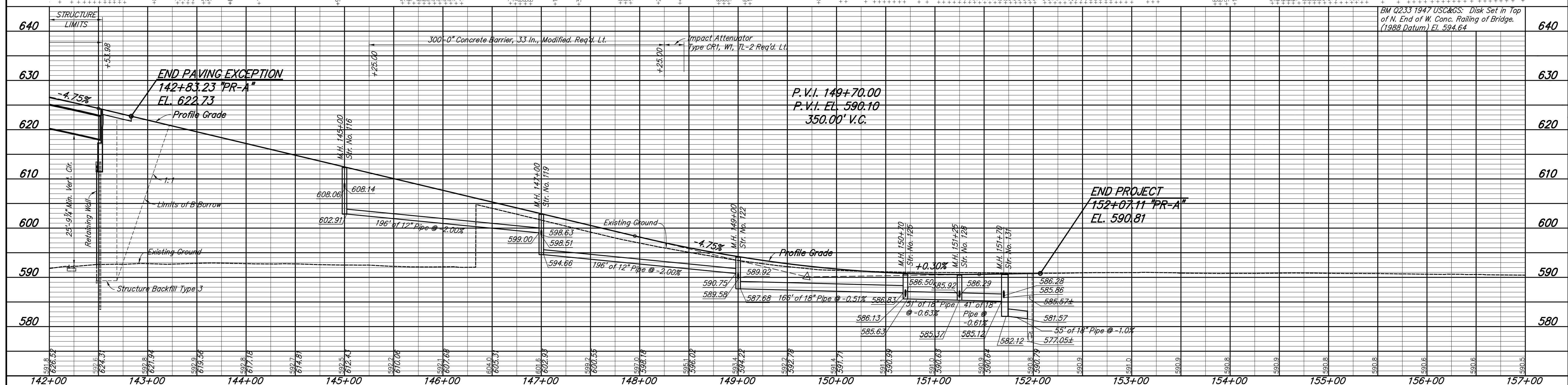
	RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012	INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE LINE "PR-A"	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: NRM	DRAWN: RJC	DATE		1" = 50'	152-45-02730
CHECKED: DAD / WSL	CHECKED: DAD / WSL				DESIGNATION NO.	
					0014210	
					SURVEY BOOK	SHEETS
					B-33357	11 of 149
					CONTRACT	PROJECT NO.
					B-33357	N881008



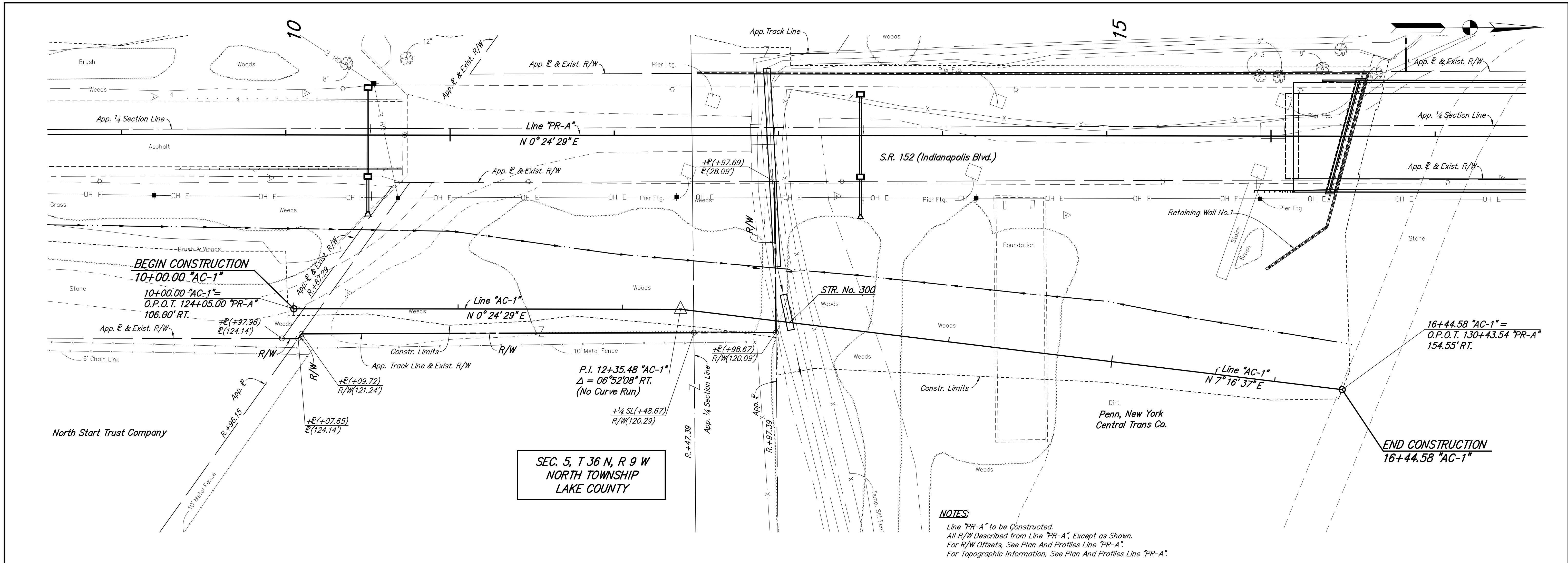
SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

SEC. 32, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

NOTES:
Line "PR-A" To Be Constructed.
All R/W Described from Line
"PR-A" Except as Shown.

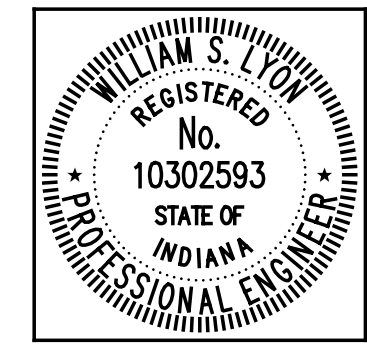
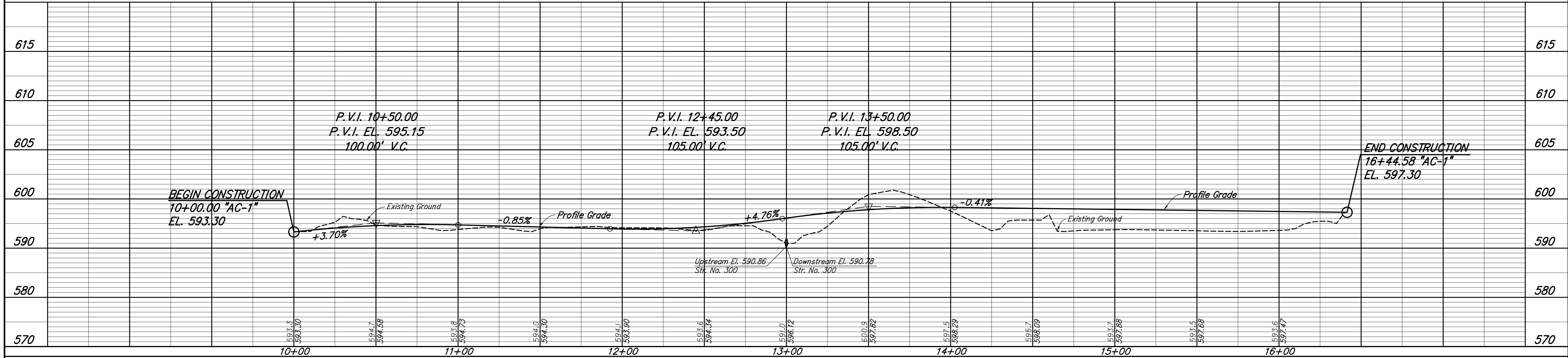


		RECOMMENDED FOR APPROVAL: <i>William S. Taylor</i> 6/1/2012 DESIGN ENGINEER DATE		HORIZONTAL SCALE: 1" = 50' BRIDGE FILE: 152-45-02730	
DESIGNED: NRM CHECKED: DAD / WSL		DRAWN: RJC CHECKED: DAD / WSL		VERTICAL SCALE: 1" = 10' DESIGNATION NO.: 0014210	
O.P.O.T. STA. 145+63.58 "PR-A", 40.86' LT. N. 9563.783 E. 4985.802 O.P.O.T. STA. 152+77.21 "PR-A", 31.69' LT. N. 10726.777 E. 4999.191				SURVEY BOOK: B-33357 SHEETS: 12 of 149 CONTRACT: B-33357 PROJECT NO.: N881008	



SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

NOTES:
Line "PR-A" to be Constructed.
All R/W Described from Line "PR-A", Except as Shown.
For R/W Offsets, See Plan And Profiles Line "PR-A".
For Topographic Information, See Plan And Profiles Line "PR-A".



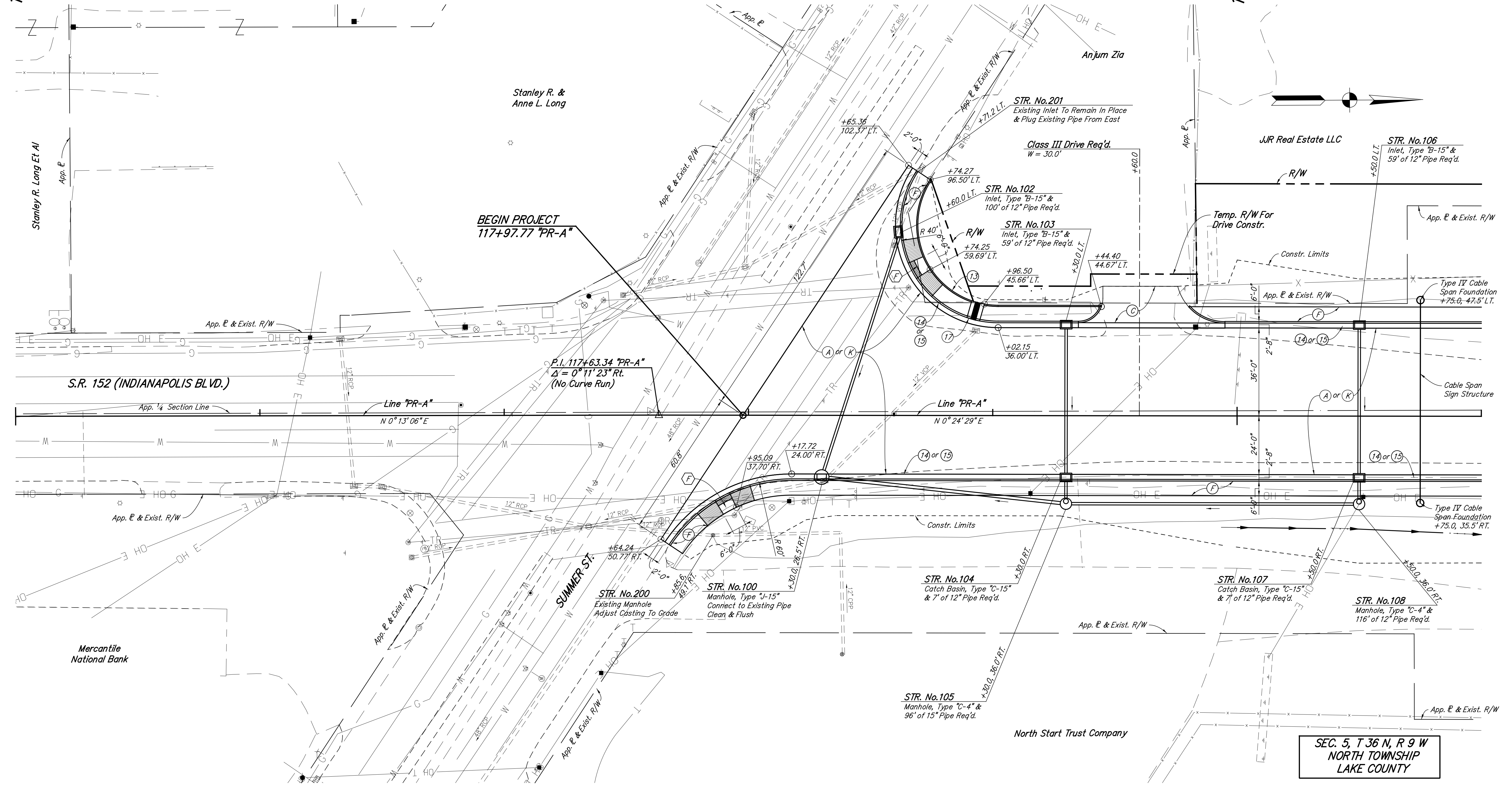
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE
DESIGNED: NRM DRAWN: RJC
CHECKED: DAD / WSL CHECKED: DAD / WSL

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE
LINE "AC-1"

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 13 of 149
CONTRACT B-33357	PROJECT NO. N881008

115

120



NOTES:
 All Radii Are Along Front Face Of Curb, Except As Shown.
 For Storm Sewer Profile, See Plan And Profiles Line "PR-A".

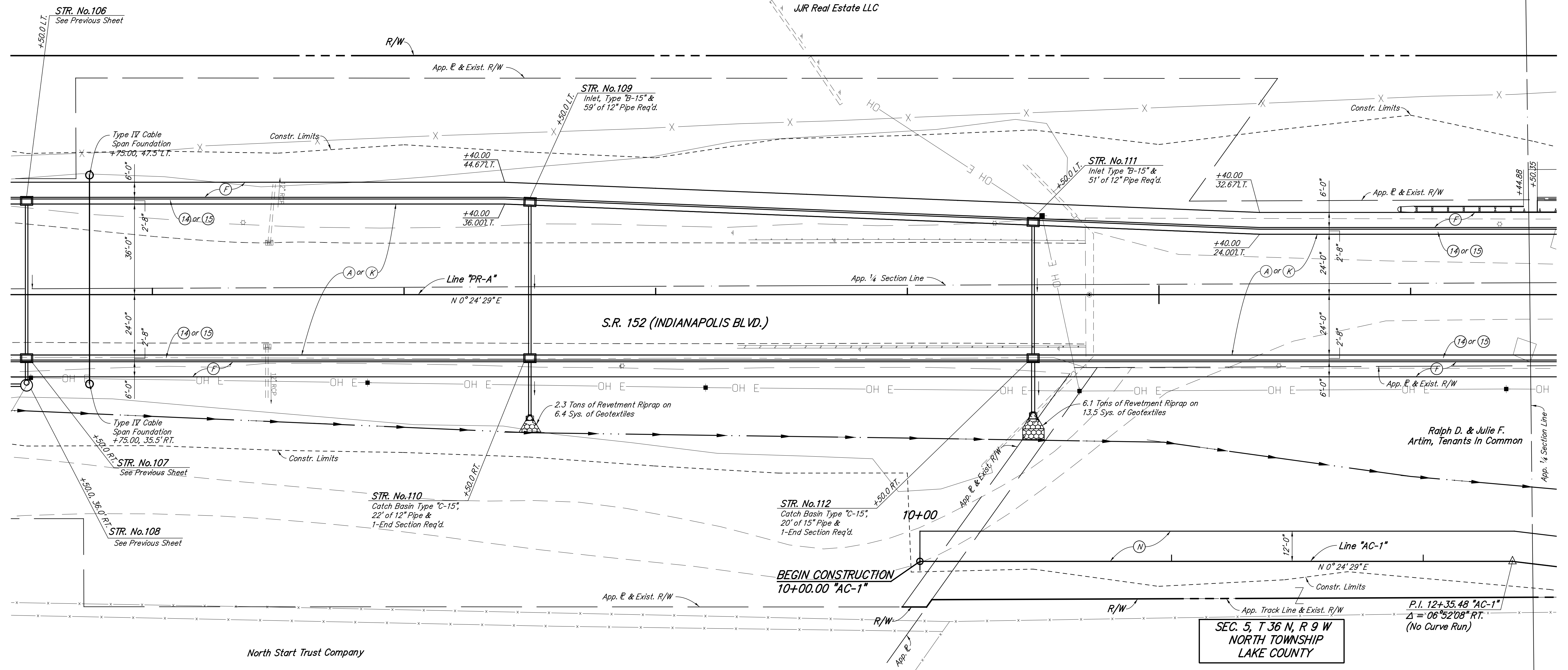
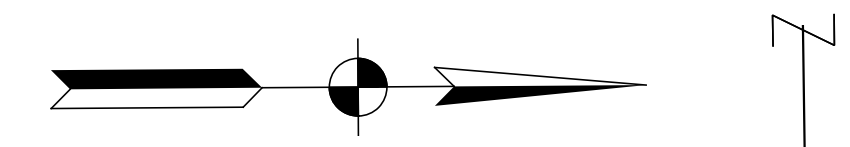
LEGEND	
(2) Railing, Concrete, FT	(13) Curb, Concrete
(3) Concrete Barrier, 33 In., Modified	(14) Curb, Integral, C, Concrete
(4) Terminal Joint	(15) Curb and Gutter, C, Concrete
(10) Paved Side Ditch, Type A	(17) Curb and Gutter Turnout, Concrete, Modified
(11) Paved Side Ditch, Type B	(A) QC/QA-PCCP, 10 In. (See Typical Sections)
(C) 9 in. PCCP for Approaches on Subgrade Treatment, Type IIIA	(G) Reinforced Concrete Moment Slab, 12 In., Modified (See Typical Sections)
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(K) Full Depth HMA Pavement (See Typical Sections)
(F) Sidewalk, Concrete, 4 in.	(N) 6" Compacted Aggregate, No. 53, Base
	(X) Curb Ramp, Concrete (Type As Indicated)

RECOMMENDED FOR APPROVAL *William S. Long* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
 CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 14 of 149
CONTRACT B-33357	PROJECT NO. N881008



NOTES:
 All Radii Are Along Front Face Of Curb, Except As Shown.
 For Storm Sewer Profile, See Plan And Profiles Line "PR-A".

LEGEND	
(2) Railing, Concrete, FT	(13) Curb, Concrete
(3) Concrete Barrier, 33 In., Modified	(14) Curb, Integral, C, Concrete
(4) Terminal Joint	(15) Curb and Gutter, C, Concrete
(10) Paved Side Ditch, Type A	(17) Curb and Gutter Turnout, Concrete, Modified
(11) Paved Side Ditch, Type B	(A) QC/QA-PCCP, 10 In. (See Typical Sections)
(C) 9 in. PCCP for Approaches on Subgrade Treatment, Type IIIA	(G) Reinforced Concrete Moment Slab, 12 In., Modified (See Typical Sections)
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(K) Full Depth HMA Pavement (See Typical Sections)
(F) Sidewalk, Concrete, 4 in.	(N) 6" Compacted Aggregate, No. 53, Base
	(X) Curb Ramp, Concrete (Type As Indicated)

RECOMMENDED FOR APPROVAL: *William S. Lyon*, DESIGN ENGINEER, 6/1/2012 DATE

DESIGNED: NRM DRAWN: RJC

CHECKED: DAD/WSL CHECKED: DAD/WSL

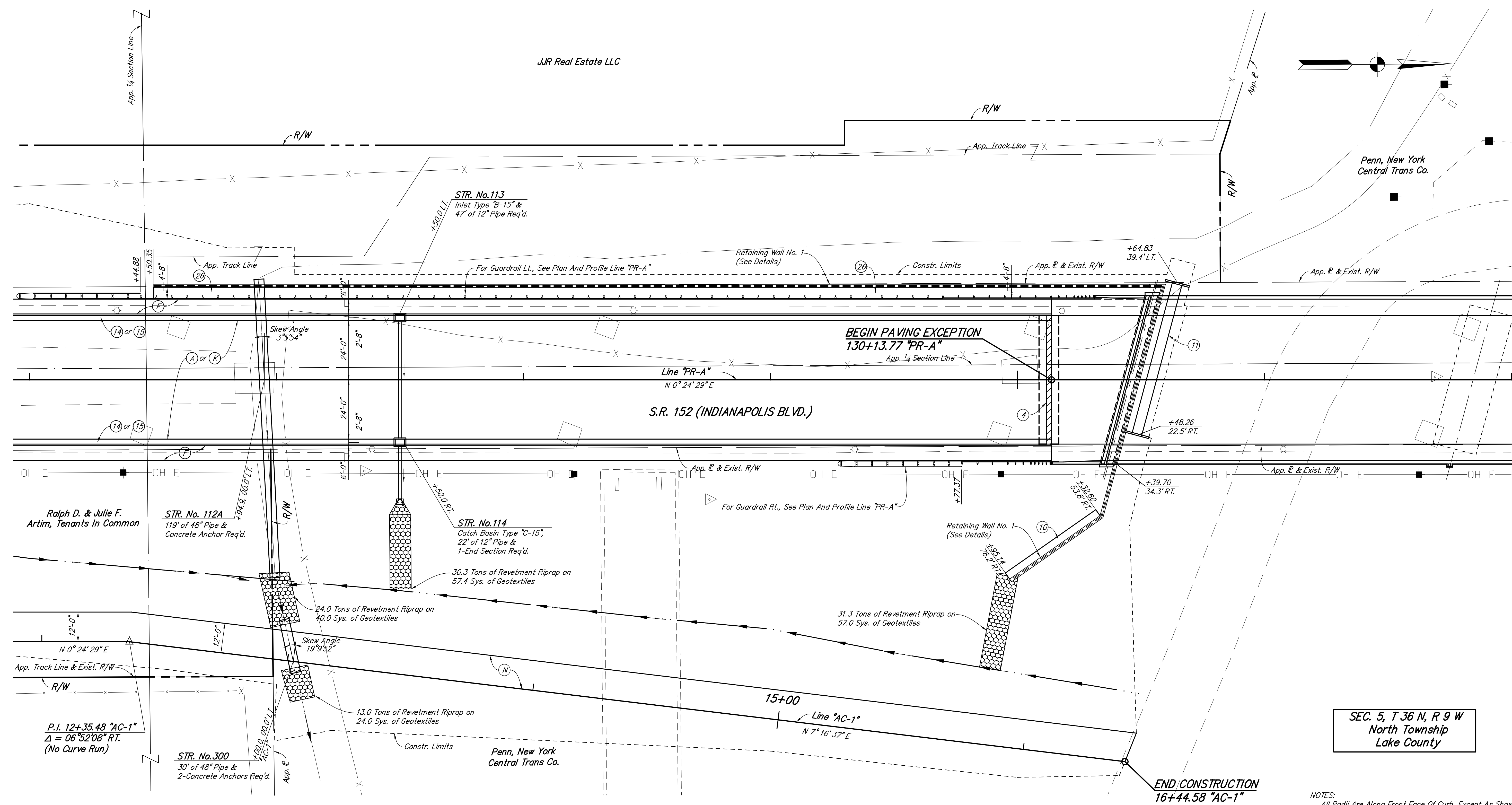
INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINE "PR-A"

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 15 of 149
CONTRACT B-33357	PROJECT NO. N881008

JJR Real Estate LLC

Penn, New York Central Trans Co.



SEC. 5, T 36 N, R 9 W
North Township
Lake County

NOTES:
All Radii Are Along Front Face Of Curb, Except As Shown.
For Storm Sewer Profile, See Plan And Profiles Line "PR-A".

LEGEND	
(2) Railing, Concrete, FT	(13) Curb, Concrete
(3) Concrete Barrier, 33 In., Modified	(14) Curb, Integral, C, Concrete
(4) Terminal Joint	(15) Curb and Gutter, C, Concrete
(10) Paved Side Ditch, Type A	(17) Curb and Gutter Turnout, Concrete, Modified
(11) Paved Side Ditch, Type B	(A) QC/QA-PCCP, 10 In. (See Typical Sections)
(9) 9 in. PCPP for Approaches on Subgrade Treatment, Type IIIA	(C) Reinforced Concrete Moment Slab, 12 In., Modified (See Typical Sections)
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(K) Full Depth HMA Pavement (See Typical Sections)
(F) Sidewalk, Concrete, 4 in.	(N) 6" Compacted Aggregate, No. 53, Base
	(X) Curb Ramp, Concrete (Type As Indicated)

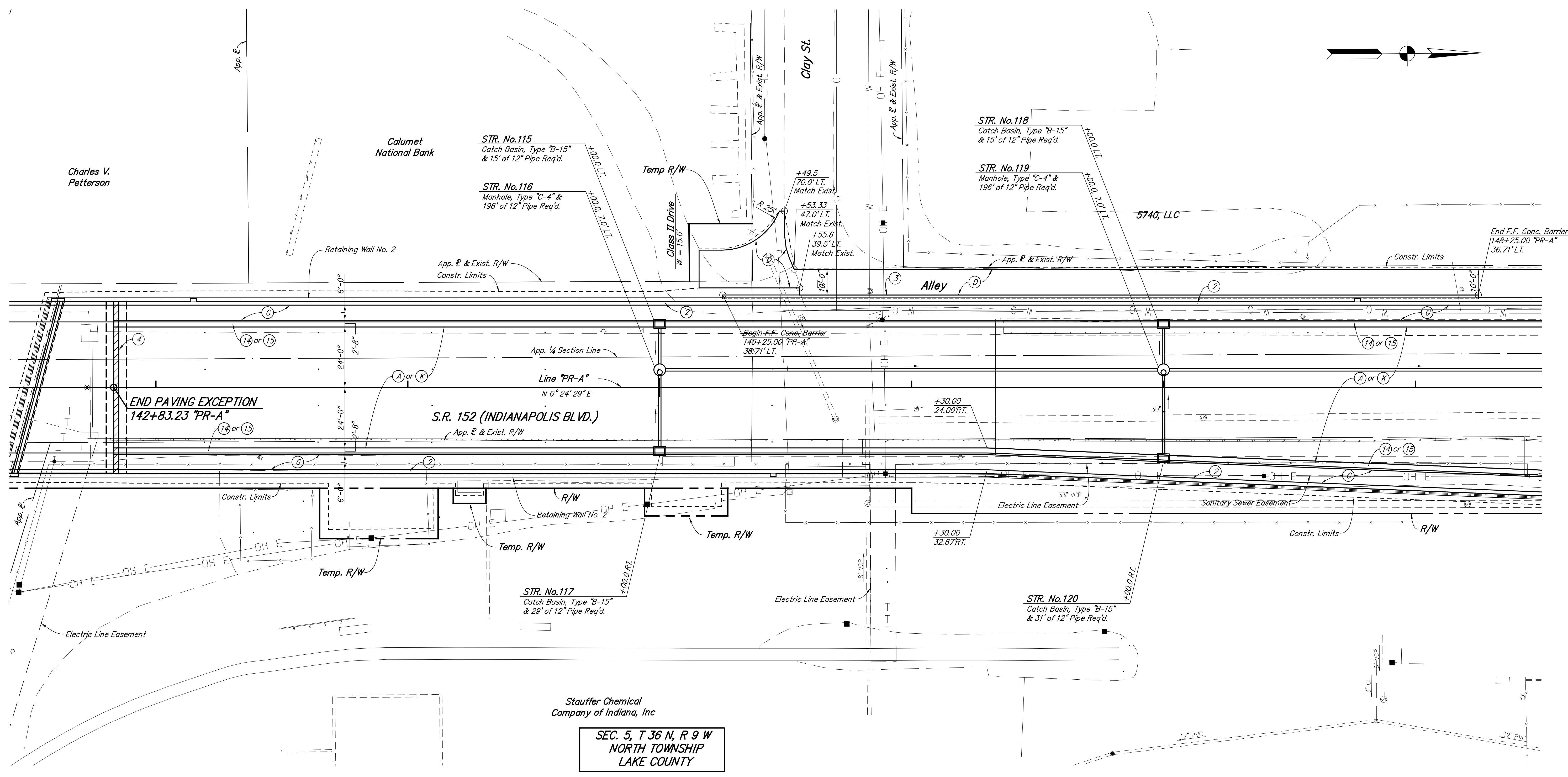
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINE "PR-A"

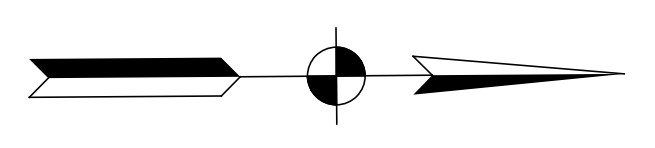
HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 16 of 149
CONTRACT B-33357	PROJECT NO. N881008



END PAVING EXCEPTION
142+83.23 "PR-A"

S.R. 152 (INDIANAPOLIS BLVD.)
N 0° 24' 29" E

SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY



NOTES:
All Radii Are Along Front Face Of Curb, Except As Shown.
For Storm Sewer Profile, See Plan And Profiles Line "PR-A".

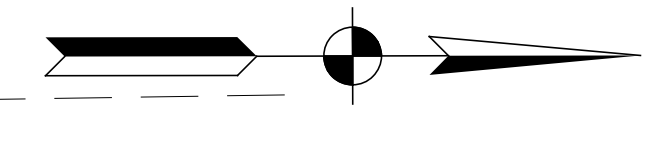
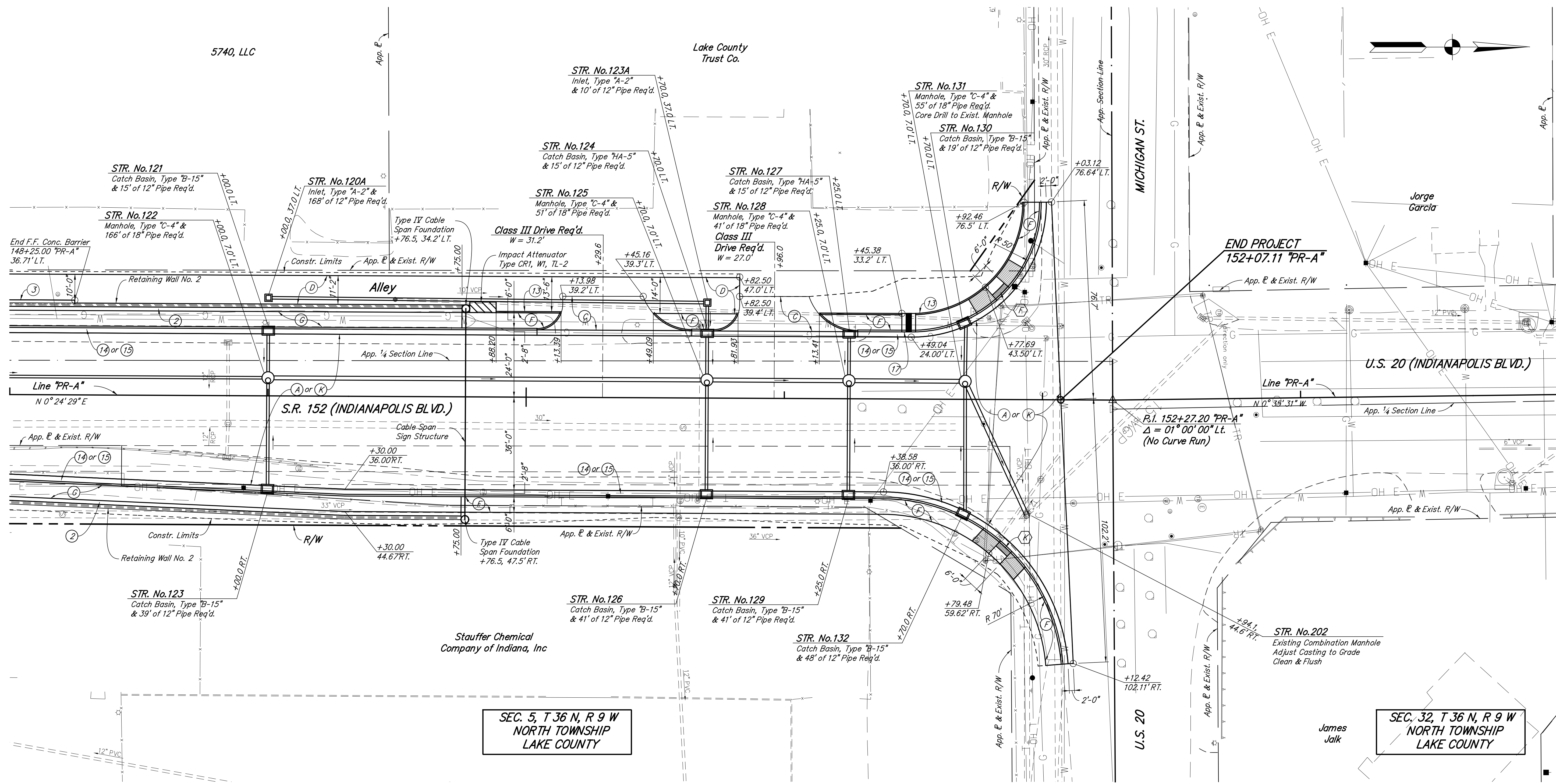
LEGEND	
(2) Railing, Concrete, FT	(13) Curb, Concrete
(3) Concrete Barrier, 33 In., Modified	(14) Curb, Integral, C, Concrete
(4) Terminal Joint	(15) Curb and Gutter, C, Concrete
(10) Paved Side Ditch, Type A	(17) Curb and Gutter Turnout, Concrete, Modified
(11) Paved Side Ditch, Type B	(A) QC/QA-PCCP, 10 In. (See Typical Sections)
(9) 9 in. PCCP for Approaches on Subgrade Treatment, Type IIIA	(C) Reinforced Concrete Moment Slab, 12 In., Modified (See Typical Sections)
(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(K) Full Depth HMA Pavement (See Typical Sections)
(F) Sidewalk, Concrete, 4 in.	(N) 6" Compacted Aggregate, No. 53, Base
	(X) Curb Ramp, Concrete (Type As Indicated)

RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: DAD/WSL CHECKED: DAD/WSL

WILLIAM S. LYON
REGISTERED
No. 10302593
STATE OF INDIANA
PROFESSIONAL ENGINEER

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
CONSTRUCTION DETAILS LINE "PR-A"		VERTICAL SCALE	DESIGNATION NO. 0014210
		SURVEY BOOK	SHEETS 17 of 149
		CONTRACT B-33357	PROJECT NO. N881008



U.S. 20 (INDIANAPOLIS BLVD.)

MICHIGAN ST.

U.S. 20

SEC. 5, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

SEC. 32, T 36 N, R 9 W
NORTH TOWNSHIP
LAKE COUNTY

NOTES:
All Radii Are Along Front Face Of Curb, Except As Shown.
For Storm Sewer Profile, See Plan And Profiles Line "PR-A".

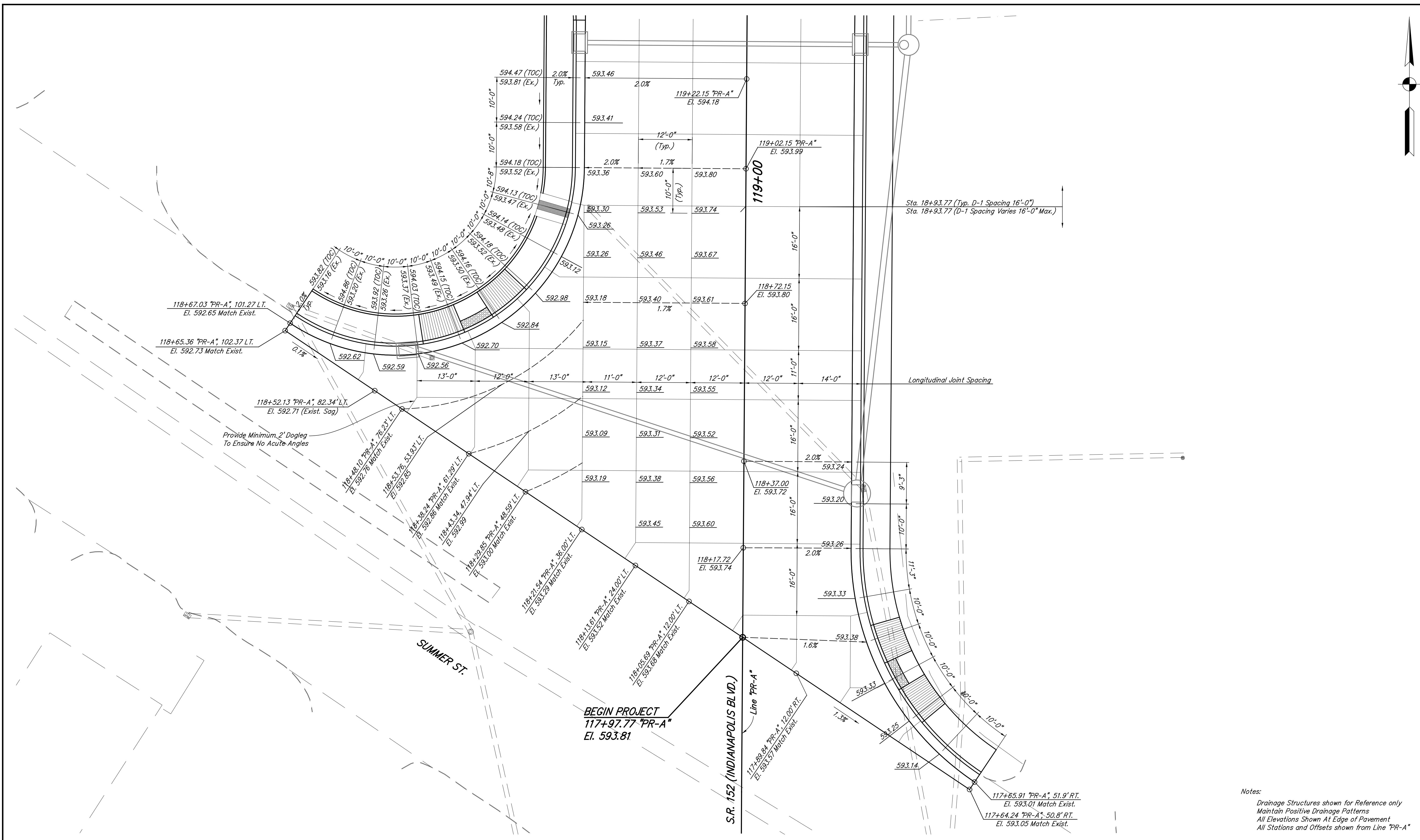
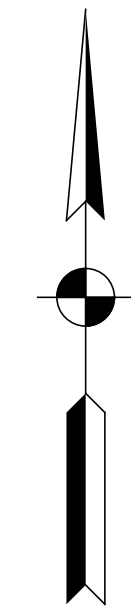
LEGEND			
(2) Railing, Concrete, FT	(13) Curb, Concrete	(C) 9 in. PCCP for Approaches on Subgrade Treatment, Type IIIA	(G) Reinforced Concrete Moment Slab, 12 In., Modified (See Typical Sections)
(3) Concrete Barrier, 33 In., Modified	(14) Curb, Integral, C, Concrete	(D) 165 #/SYD. HMA Surface, Type A on 495 #/SYD. HMA Intermediate, Type A on 6 In. Compacted Aggregate Base, No. 53	(K) Full Depth HMA Pavement (See Typical Sections)
(4) Terminal Joint	(15) Curb and Gutter, C, Concrete	(N) 6" Compacted Aggregate, No. 53, Base	(X) Curb Ramp, Concrete (Type As Indicated)
(10) Paved Side Ditch, Type A	(17) Curb and Gutter Turnout, Concrete, Modified	(F) Sidewalk, Concrete, 4 in.	
(11) Paved Side Ditch, Type B	(A) QC/QA-PCCP, 10 In. (See Typical Sections)		

RECOMMENDED FOR APPROVAL: *William S. Lopez* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS
LINE "PR-A"

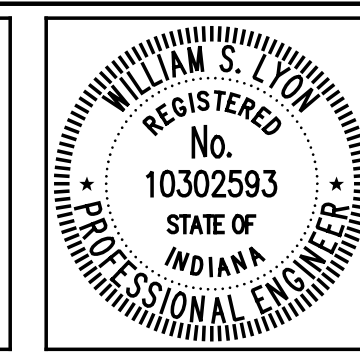
HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 18 of 149
CONTRACT B-33357	PROJECT NO. N881008



Notes:
 Drainage Structures shown for Reference only
 Maintain Positive Drainage Patterns
 All Elevations Shown At Edge of Pavement
 All Stations and Offsets shown from Line "PR-A"

LEGEND

- Grading Lines
- PCCP Joint Layout



RECOMMENDED FOR APPROVAL *William S. Taylor* 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: NRM DRAWN: NRM
 CHECKED: WSL CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION
SPOT ELEVATION DETAIL AND PCCP JOINT LAYOUT

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
	19 of 149
CONTRACT B-33357	PROJECT NO. N881008

MICHIGAN ST.

U.S. 20(MICHIGAN ST.)

END PROJECT
152+07.11 "PR-A"
El. 590.81

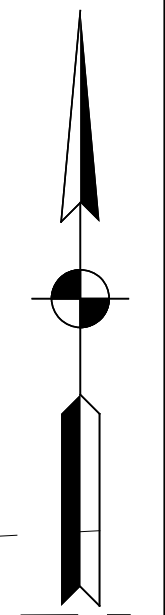
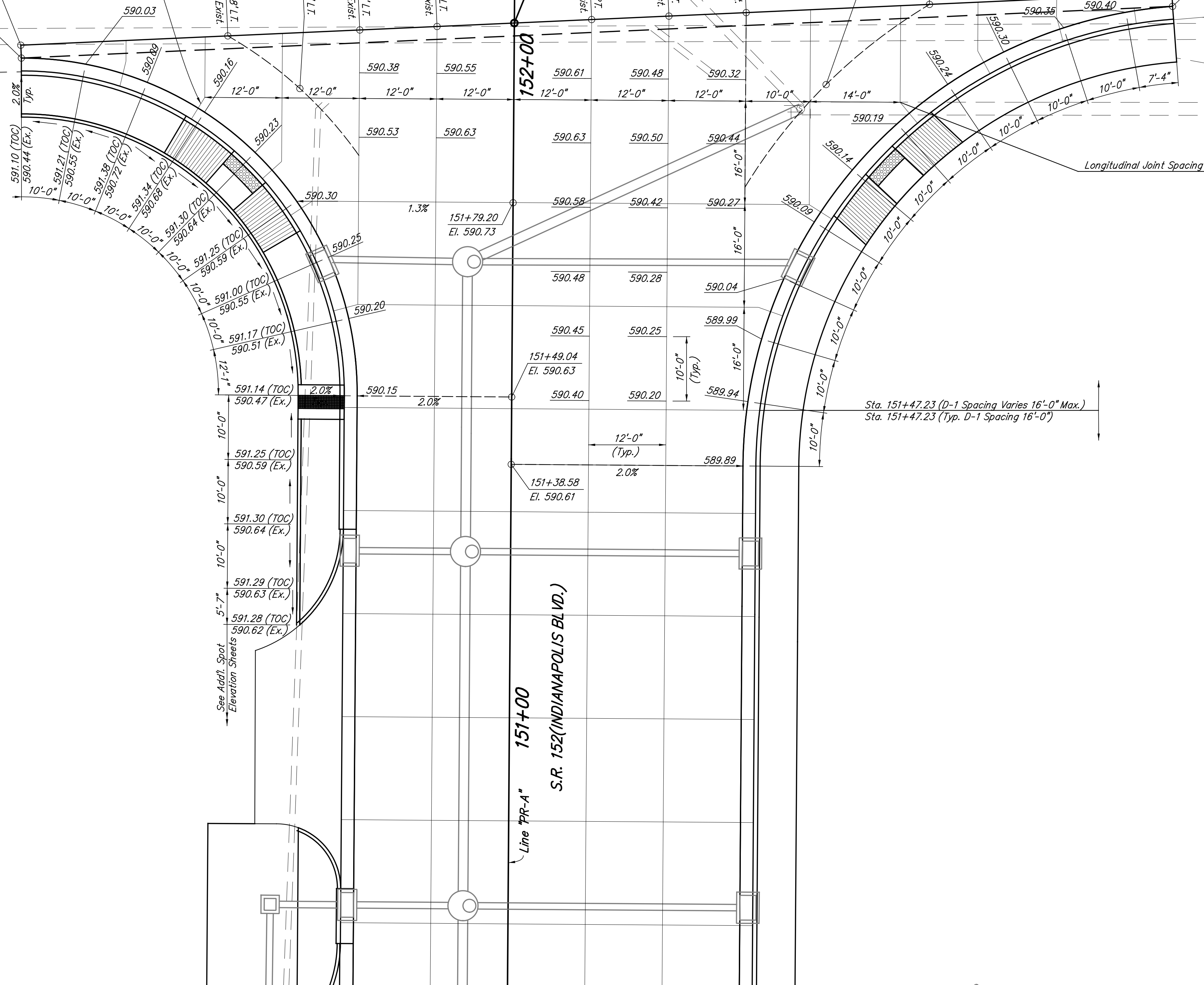
Provide Minimum 2' Dogleg
To Ensure No Acute Angles

152+03.12, 76.6' L.T.
El. 590.00 Match Exist.

152+01.12, 76.5' L.T.
El. 589.97 Match Exist.

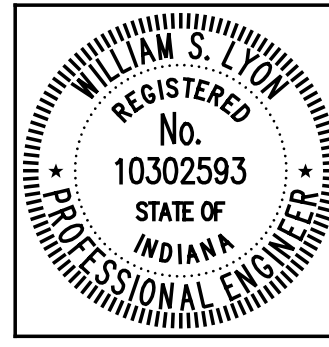
152+12.42, 102.1' RT.
El. 590.43 Match Exist.

152+10.42, 102.2' RT.
El. 590.36 Match Exist.



LEGEND

- Grading Lines
- PCCP Joint Layout



RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
CHECKED: WSL CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION

SPOT ELEVATION DETAIL AND PCCP JOINT LAYOUT

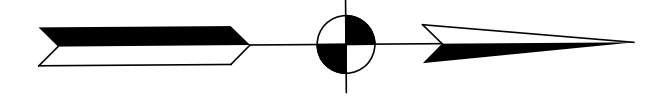
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
CONTRACT B-33357	20 of 149
	PROJECT NO. N881008

Notes:
Drainage Structures shown for Reference only.
All Elevations Shown At Edge of Pavement
All Stations and Offsets shown from Line "PR-A"

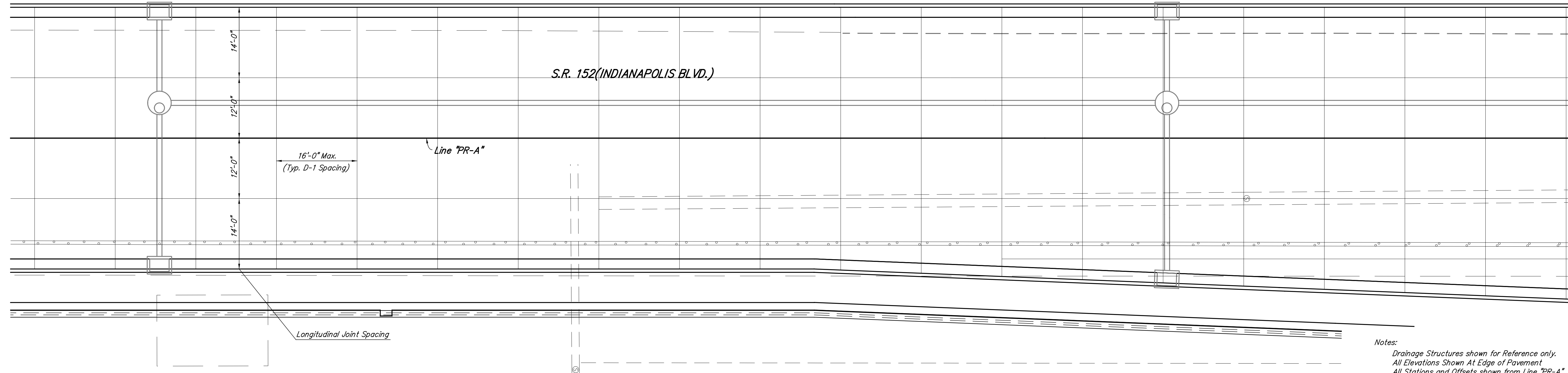
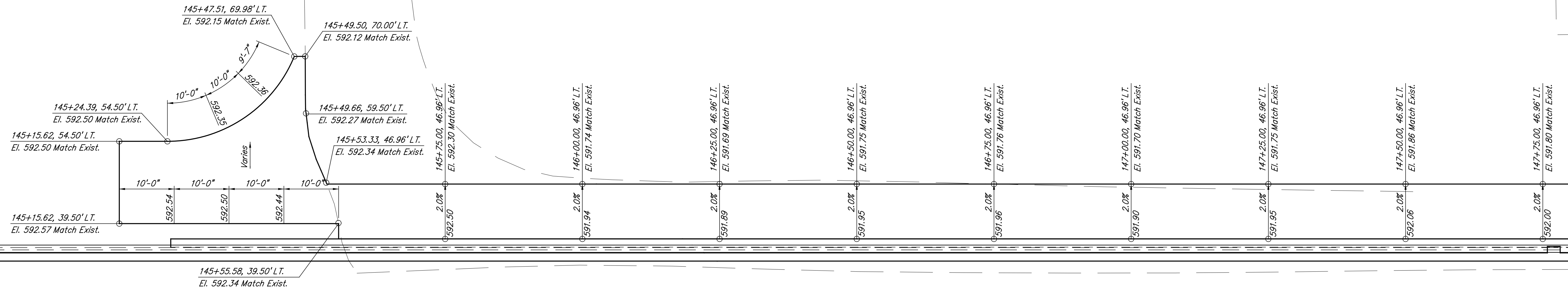
145

146

147



CLAY ST.

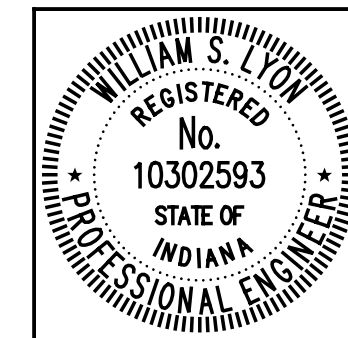


Longitudinal Joint Spacing

Notes:
 Drainage Structures shown for Reference only.
 All Elevations Shown At Edge of Pavement
 All Stations and Offsets shown from Line "PR-A"

LEGEND

- Grading Lines
- PCCP Joint Layout



RECOMMENDED FOR APPROVAL	<i>William S. Taylor</i>	6/1/2012
DESIGNED:	NRM	DRAWN:
CHECKED:	WSL	CHECKED:

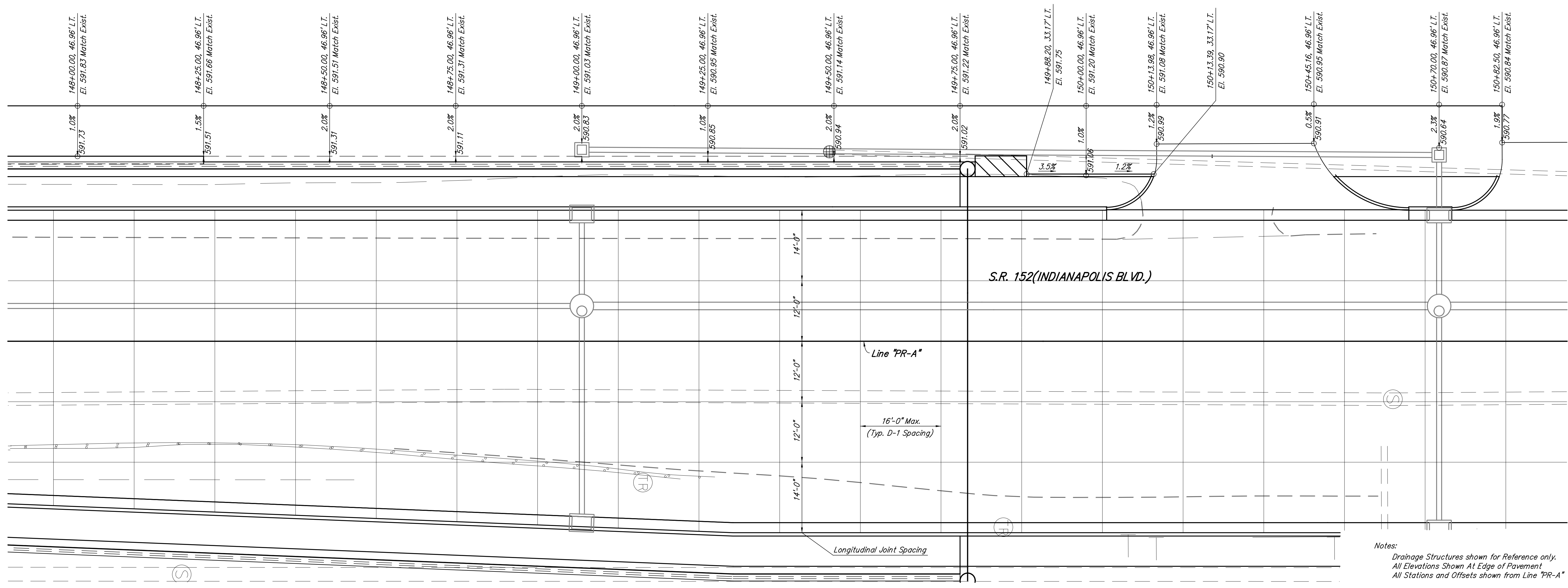
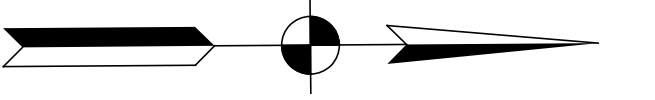
INDIANA
 DEPARTMENT OF TRANSPORTATION
 SPOT ELEVATION DETAIL
 AND PCCP JOINT LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
N/A	0014210
SURVEY BOOK	SHEETS
	21 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

148

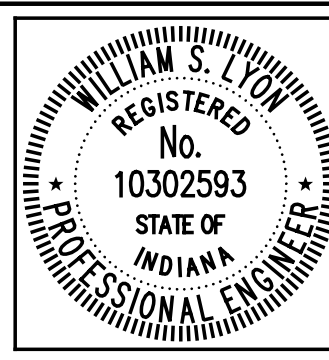
149

150



Notes:
 Drainage Structures shown for Reference only.
 All Elevations Shown At Edge of Pavement
 All Stations and Offsets shown from Line "PR-A"

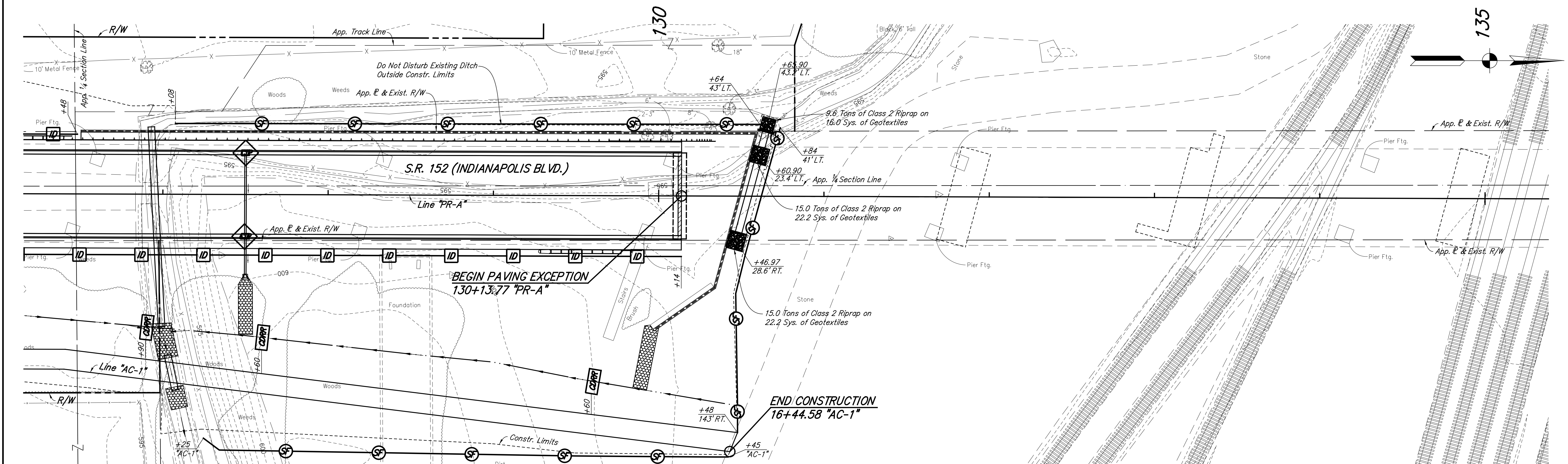
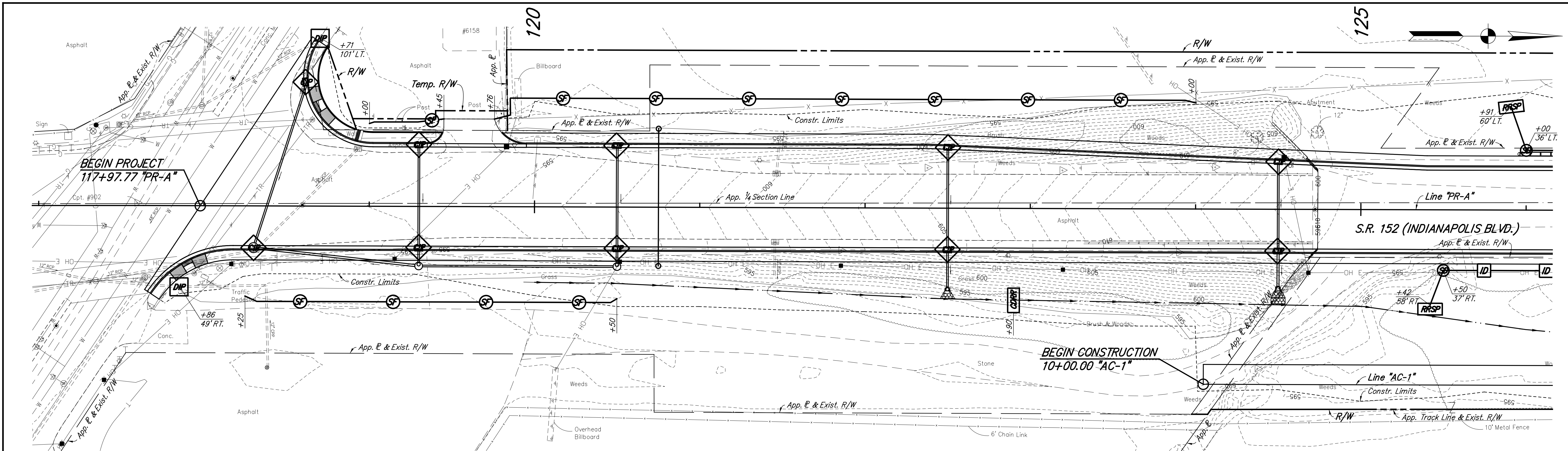
LEGEND
 - - - - - Grading Lines
 ——— PCCP Joint Layout



RECOMMENDED FOR APPROVAL: *William S. Lyon*, DESIGN ENGINEER, DATE: 6/1/2012
 DESIGNED: NRM, DRAWN: NRM
 CHECKED: WSL, CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION
SPOT ELEVATION DETAIL AND PCCP JOINT LAYOUT

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
CONTRACT B-33357	22 of 149
	PROJECT NO. N881008



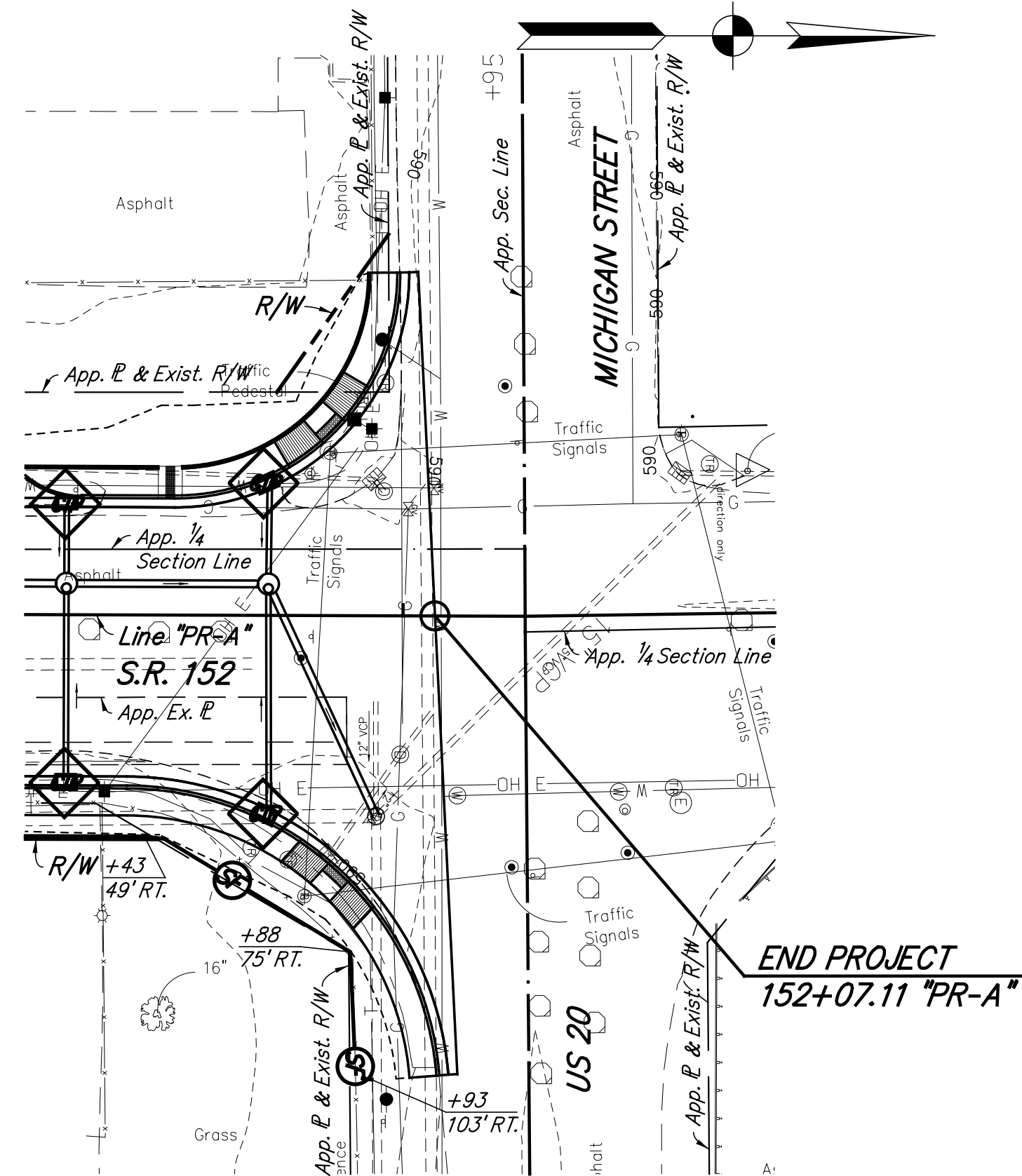
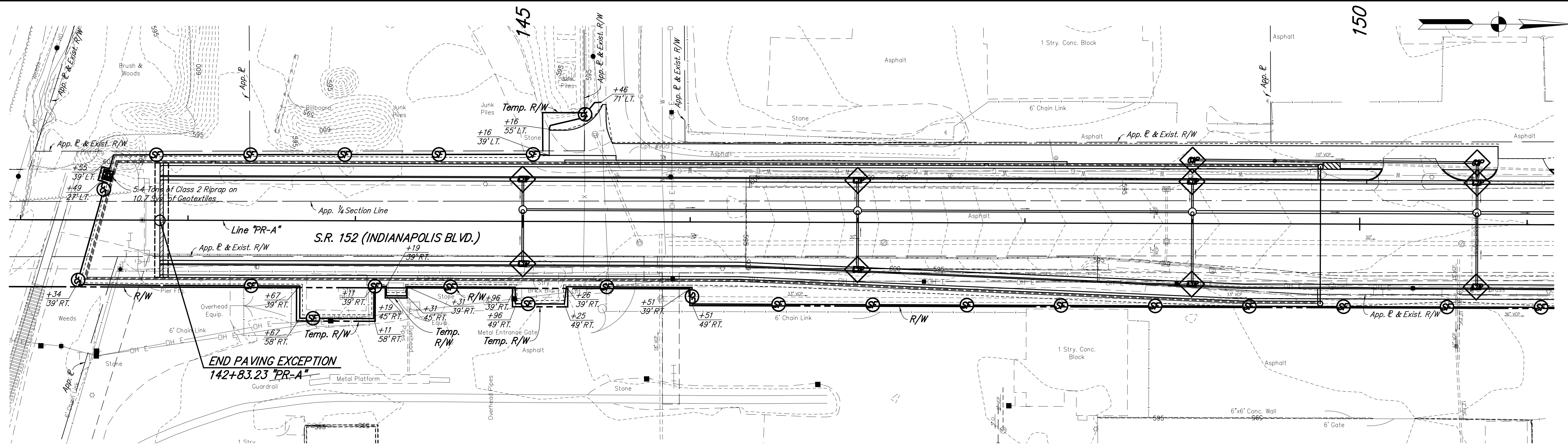
LEGEND	
	Temporary Check Dam, Revetment Riprap
	Interceptor Ditch - Earth
	Temporary Ditch Inlet Protection
	Temporary Curb Inlet Protection
	Splash Pad, Riprap
	Temporary Silt Fence
	Temporary Slope Drain
	Seed Mixture, T
	Proposed Ditch

NOTES:
 All areas left undisturbed for more than 7 days shall be Temporary Seeded, unless shown otherwise, or as directed by the Engineer. See the Special Provisions.
 All existing and proposed inlets along the construction area shall be protected by a method approved by 2012 INDOT Standards and Specifications.

RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: NRM DRAWN: NRM
 CHECKED: WSL CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL
LINE "PR-A" & "AC-1"

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 23 of 149
CONTRACT B-33357	PROJECT NO. N881008

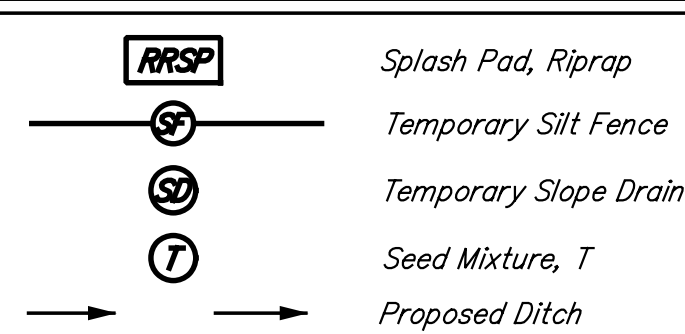
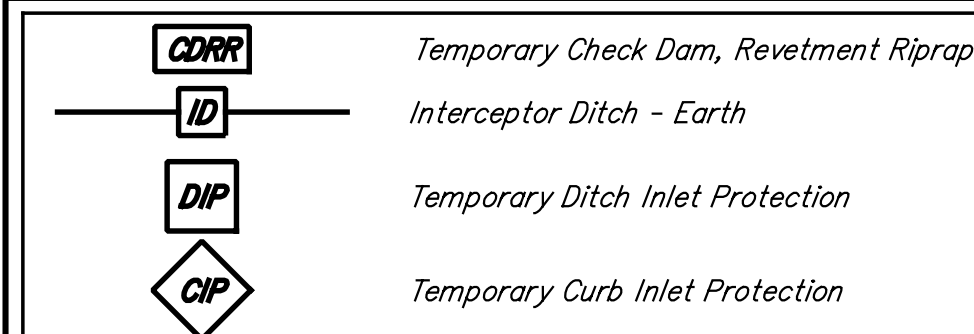


EROSION CONTROL TABLE

LOCATION	TEMPORARY SILT FENCE (ft)	TEMPORARY CHECK DAMS STRAW BALES (ft)	TEMPORARY CHECK DAM REVEMENT RIPRAP (TON)	TEMPORARY SEDIMENT TRAP (TON)	TEMPORARY SLOPE DRAIN (ft)	SPLASHPAD RIPRAP (TON)	SEED MIXTURE, T (lb)	MULCHING MATERIAL (TON)	FERTILIZER (TON)	TEMPORARY DITCH INLET PROTECTION EACH	INTERCEPTOR DITCH (NOT A PAY ITEM) (ft)
Line "PR-A"							93	3	1		
117+86 Rt.										1	
118+71 Lt.										1	
119+00 Lt.	119+45 Lt.	45									
118+25 Rt.	120+50 Rt.	225									
119+76 Lt.	124+00 Lt.	424									
122+90 Rt.			6.5								
125+42 Rt.						1.4					
125+50 Rt.	130+14 Rt.				23						464
125+91 Lt.						1.4					
126+00 Lt.					26						48
126+00 Lt.	126+48 Lt.										
126+90 Rt.			6.5								
127+60 Rt.			6.5								
128+08 Lt.	130+64 Lt.	256									
129+60 Rt.			6.5								
130+47 Rt.						15.0					
130+48 Rt.	130+64 Lt.	211									
130+61 Lt.						15.0					
130+66 Lt.						9.6					
Subtotals =		1,161	26.0	49	42.4	93	3	1	2	512	

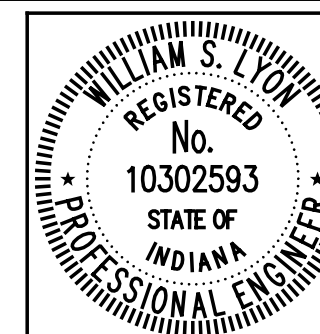
EROSION CONTROL TABLE

LOCATION	TEMPORARY SILT FENCE (ft)	TEMPORARY CHECK DAMS STRAW BALES (ft)	TEMPORARY CHECK DAM REVEMENT RIPRAP (TON)	TEMPORARY SEDIMENT TRAP (TON)	TEMPORARY SLOPE DRAIN (ft)	SPLASHPAD RIPRAP (TON)	SEED MIXTURE, T (lb)	MULCHING MATERIAL (TON)	FERTILIZER (TON)	TEMPORARY DITCH INLET PROTECTION EACH	INTERCEPTOR DITCH (NOT A PAY ITEM) (ft)
Line "PR-A"											
142+34 Rt.	142+55 Lt.	81									
142+34 Rt.	151+93 Rt.	1,069									
142+49 Lt.					5.4						
142+55 Lt.	145+16 Lt.	261									
145+16 Lt.	145+46 Lt.	38									
Line "AC-1"											
13+25 Rt.	16+45 Rt.	320									
Subtotals =		1,769			5.4						
Totals =		2,930	26.0	49	47.8	93	3	1	2	512	



LEGEND

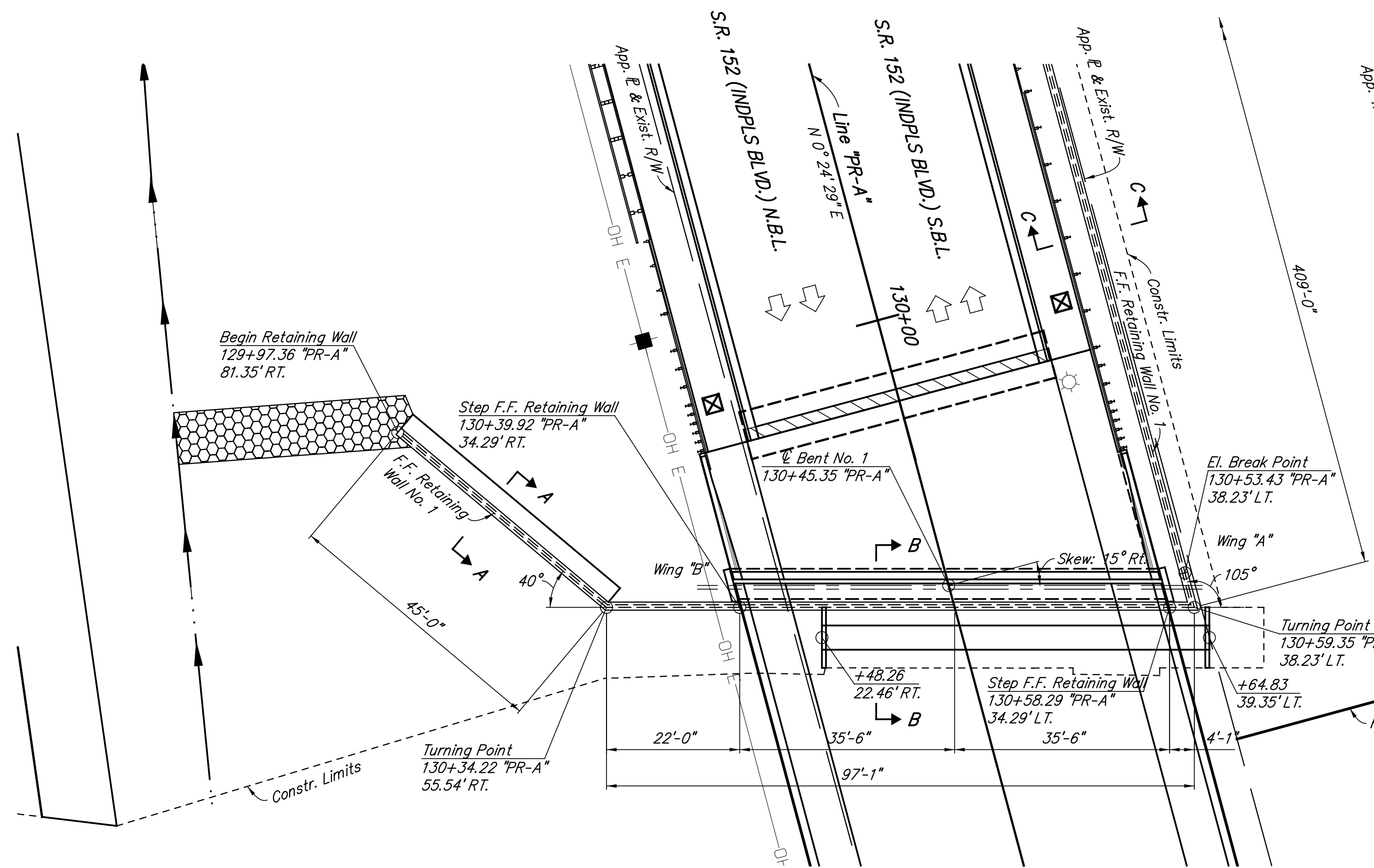
NOTES:
 All areas left undisturbed for more than 7 days shall be Temporary Seeded, unless shown otherwise, or as directed by the Engineer. See the Special Provisions.
 All existing and proposed inlets along the construction area shall be protected by a method approved by 2012 INDOT Standards and Specifications.



RECOMMENDED FOR APPROVAL	<i>William S. Taylor</i>	6/1/2012
DESIGNED:	NRM	DATE
DRAWN:	NRM	
CHECKED:	WSL	
	WSL	

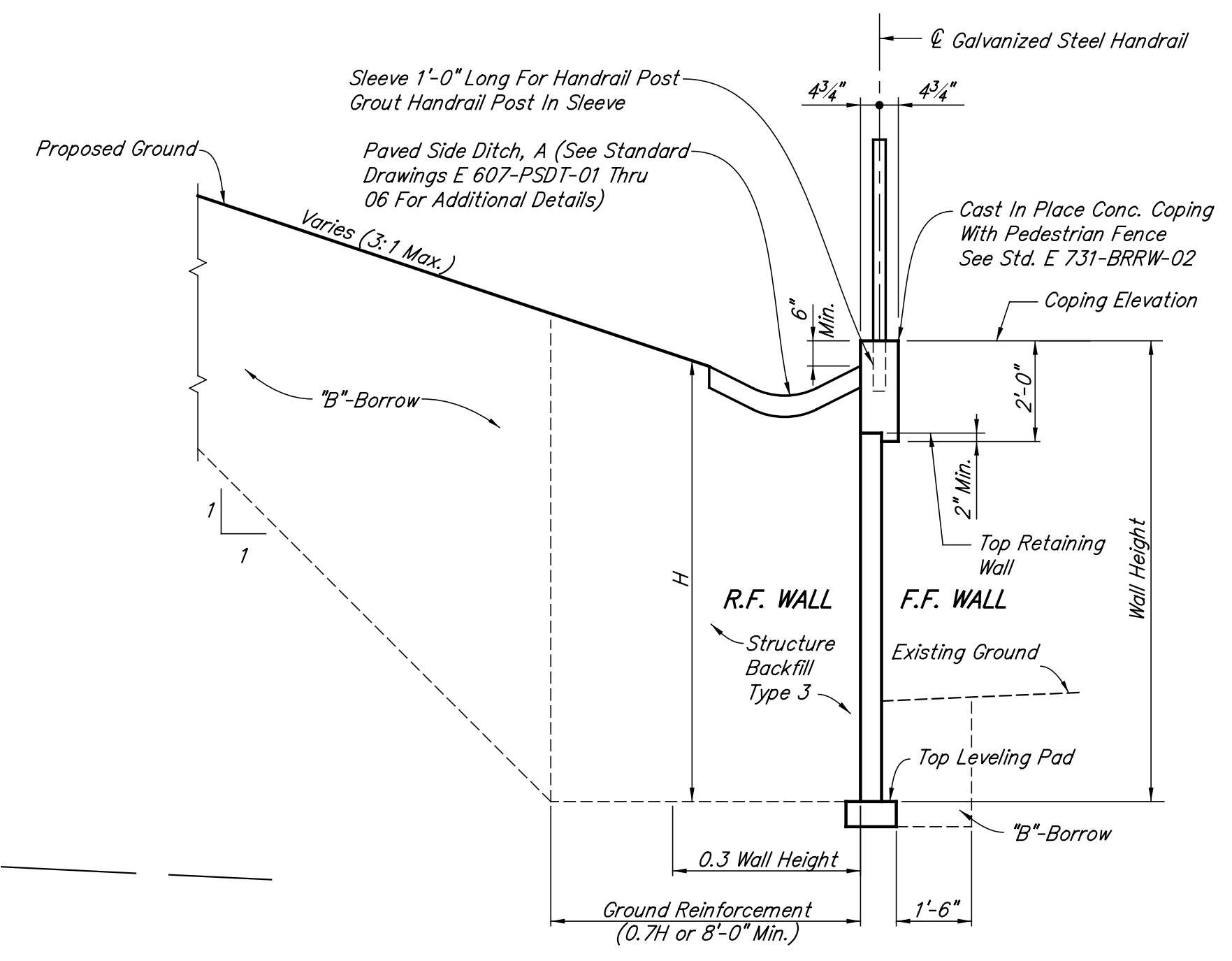
INDIANA DEPARTMENT OF TRANSPORTATION
EROSION CONTROL LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	24 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

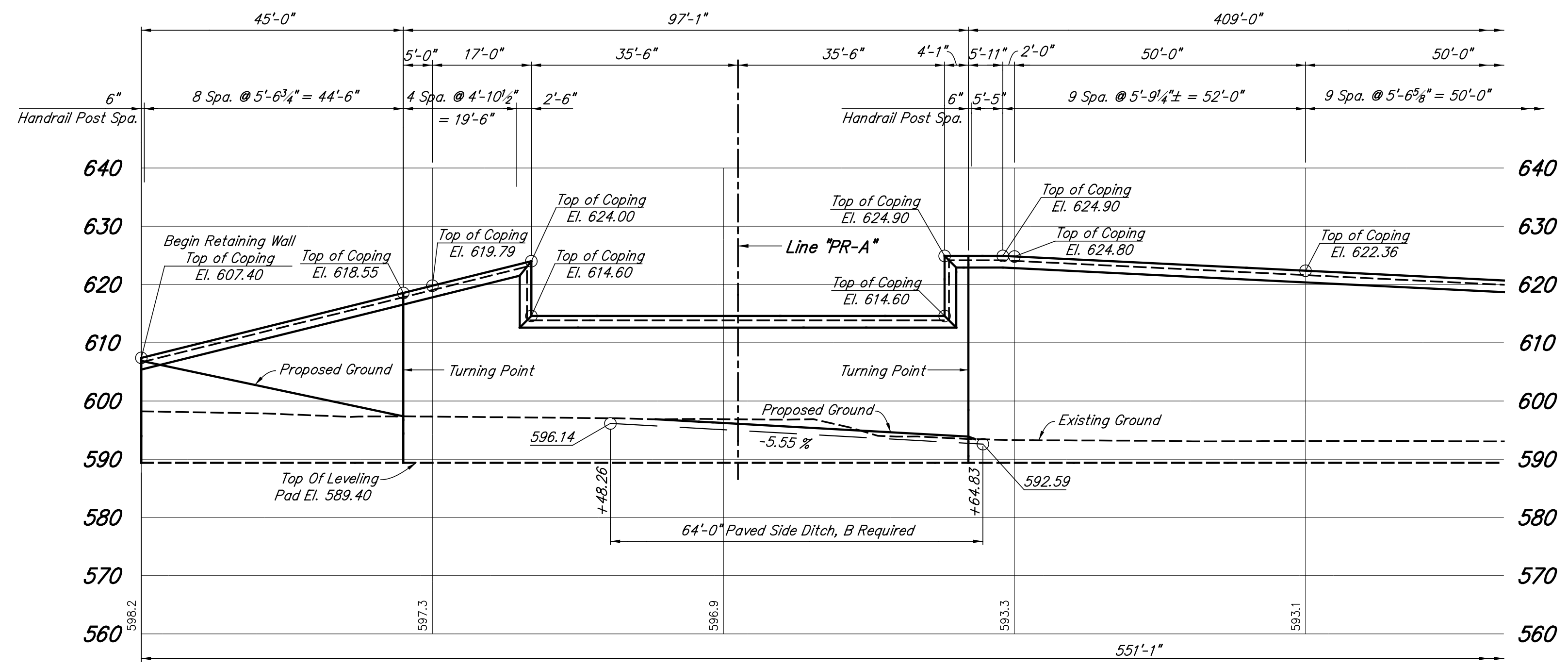


PLAN

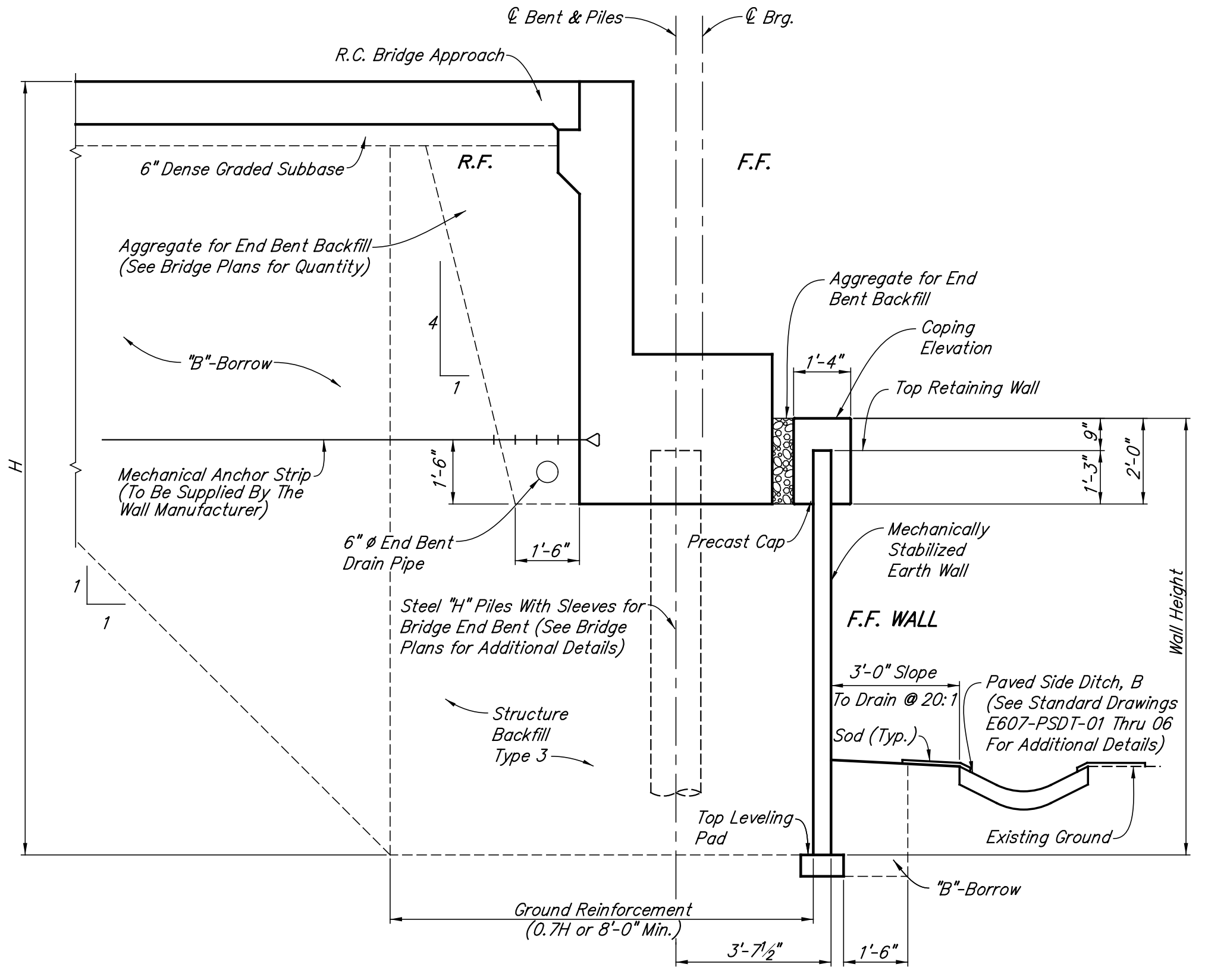
NOTES:
 For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.
 Elevation Shown Along Front Face of Wall.
 All Dimensions are Given Along Front Face of Wall.
 Maximum Factored Bearing Resistance = 5,000 PSF
 For Section C-C and Pipe Handrail Detail, see Sheet No. 26.



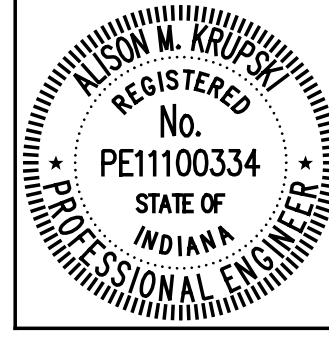
SECTION A-A
 Scale: 3/8" = 1'-0"



ELEVATION



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



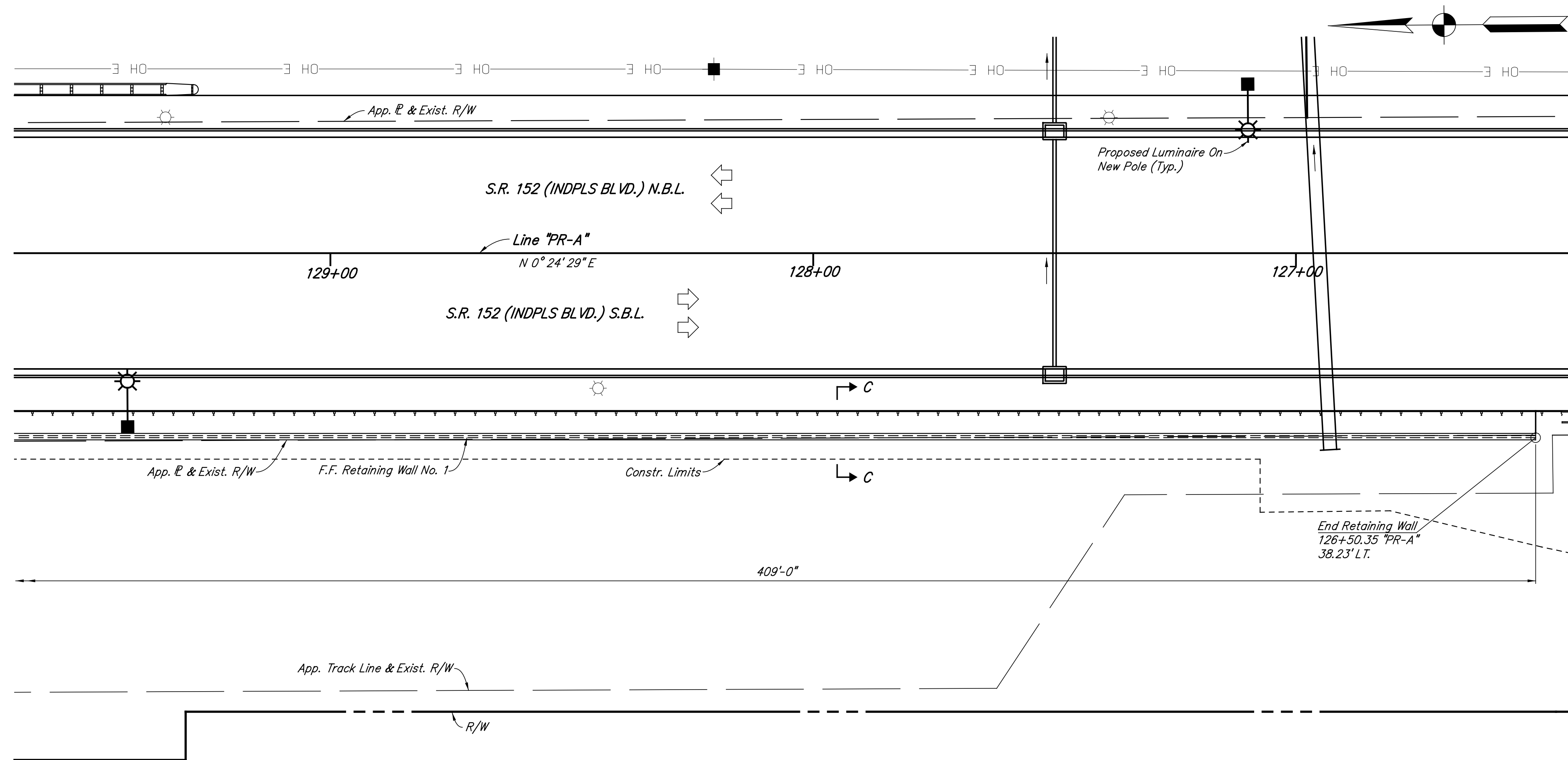
RECOMMENDED FOR APPROVAL: Alison M. Krupski, DESIGN ENGINEER, 6/1/2012 DATE
 DESIGNED: BMA DRAWN: EWM
 CHECKED: DAD CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION
RETAINING WALL NO. 1 DETAILS

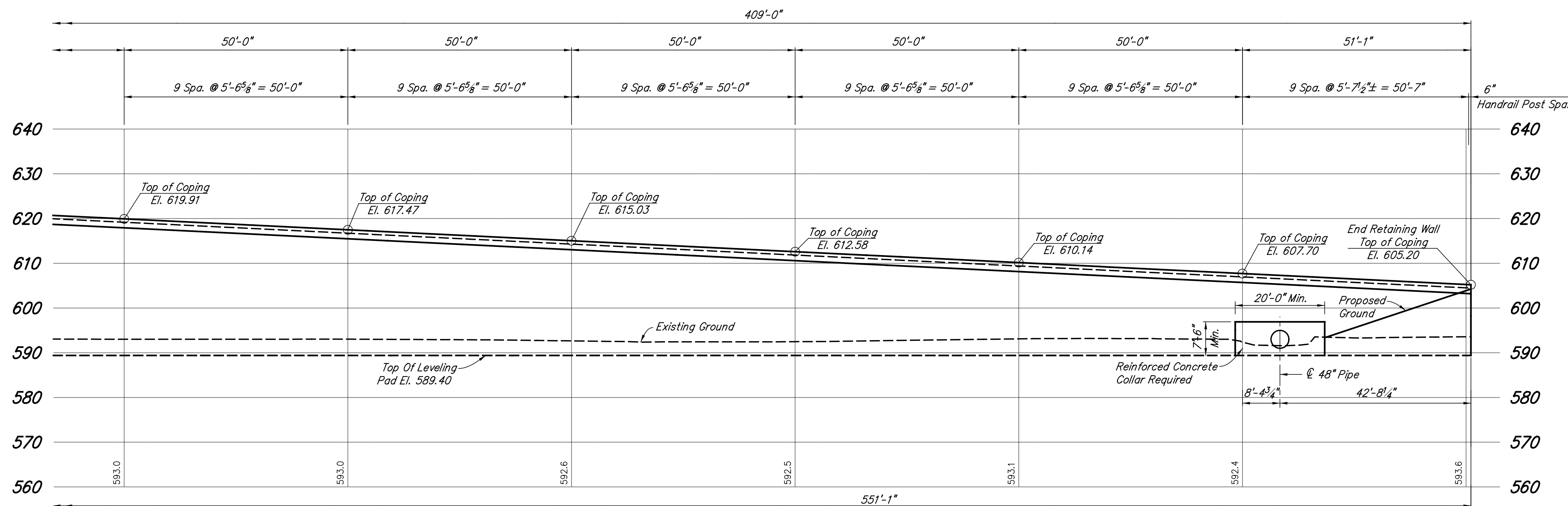
HORIZONTAL SCALE 1/16" = 1'-0", UNLESS NOTED	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 25 of 149
CONTRACT B-33357	PROJECT NO. N881008

**RETAINING WALL NO. 1
BILL OF MATERIALS**

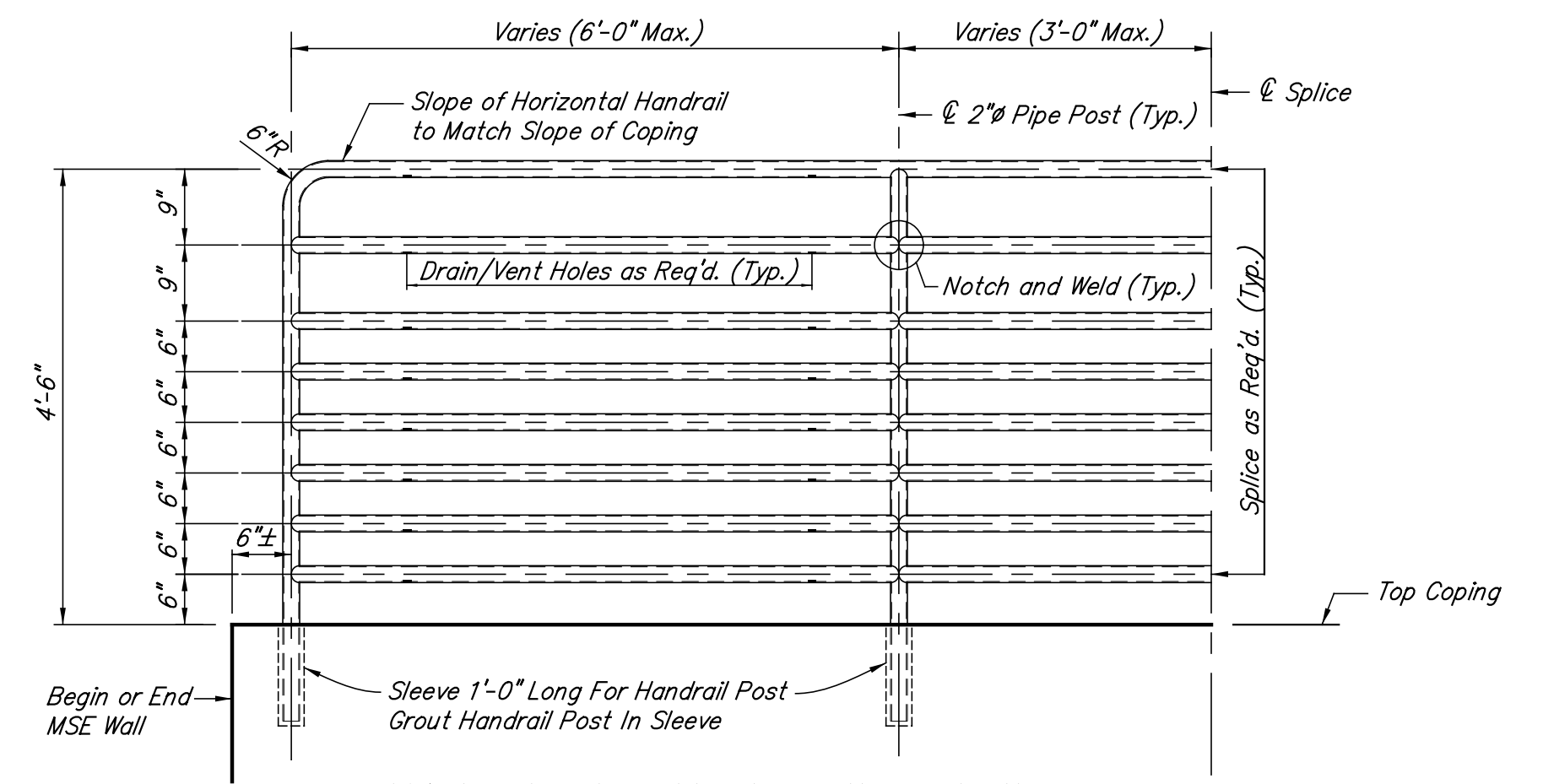
Retaining Wall	
Face Panels, Concrete	14245 Sft.
Wall Erection	14245 Sft.
Leveling Pad, Concrete	551 Lft.
Seal Coat, Graffiti Resistant	12592 Sft.
Earthwork	
Structure Backfill, Type 3	9337 Cys.
"B" Borrow	7120 Cys.



PLAN

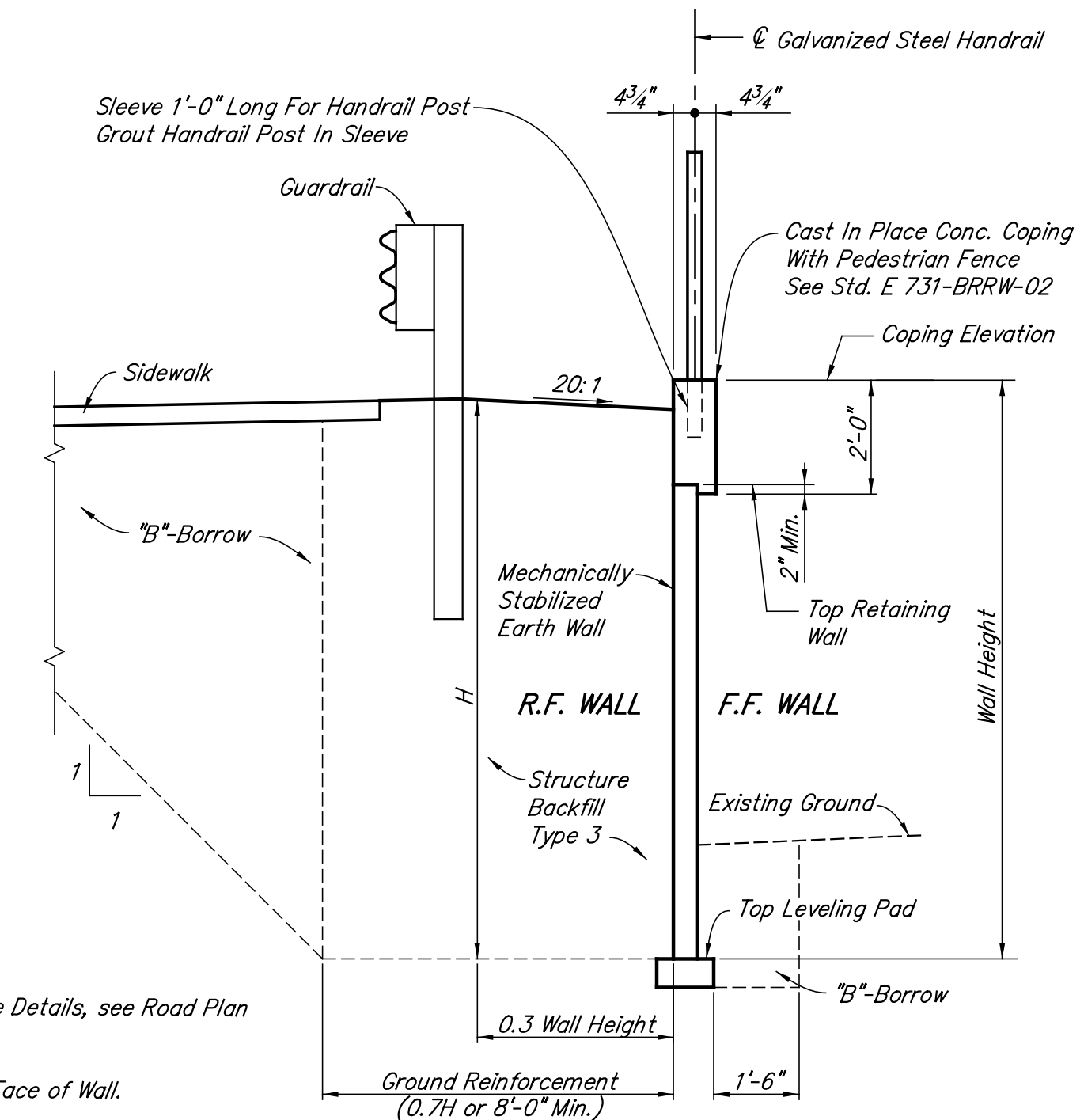


ELEVATION



TYPICAL PIPE HANDRAIL DETAIL

No Scale



NOTES:

For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.

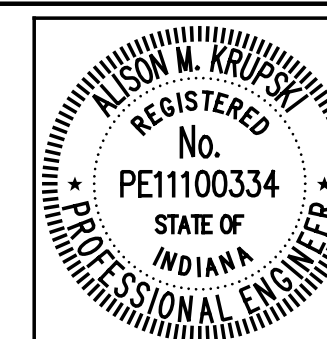
Elevation Shown Along Front Face of Wall.

All Dimensions are Given Along Front Face of Wall.

Maximum Factored Bearing Resistance = 5,000 PSF

SECTION C-C

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

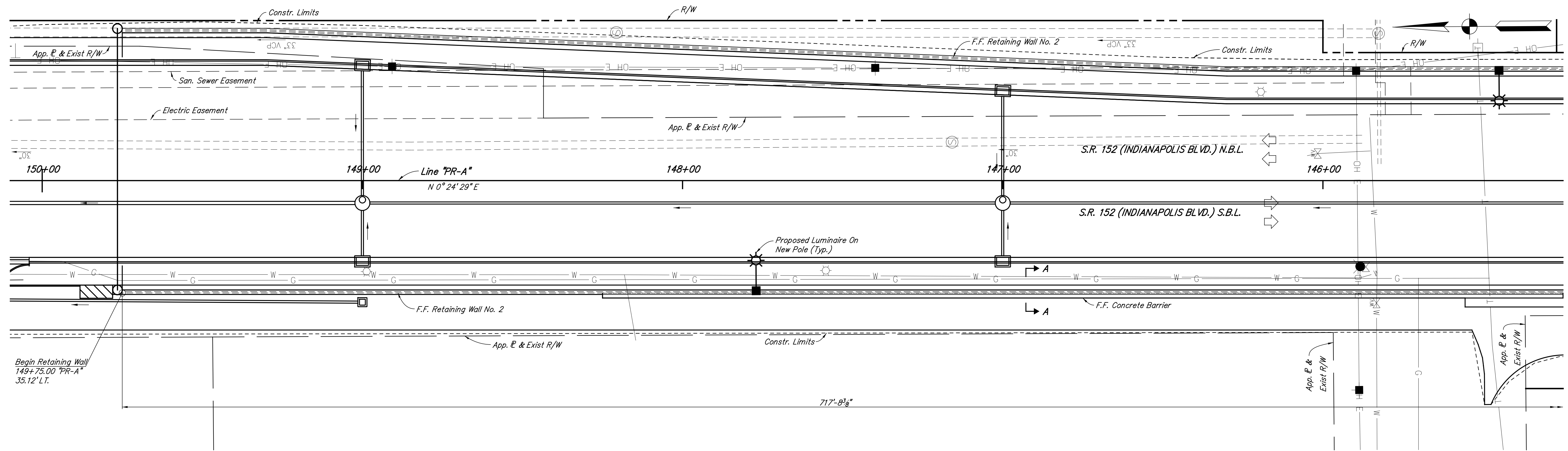


RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	BMA	DRAWN:
		EWM
CHECKED:	DAD	CHECKED:
		DAD

INDIANA
DEPARTMENT OF TRANSPORTATION

RETAINING WALL NO. 1 DETAILS

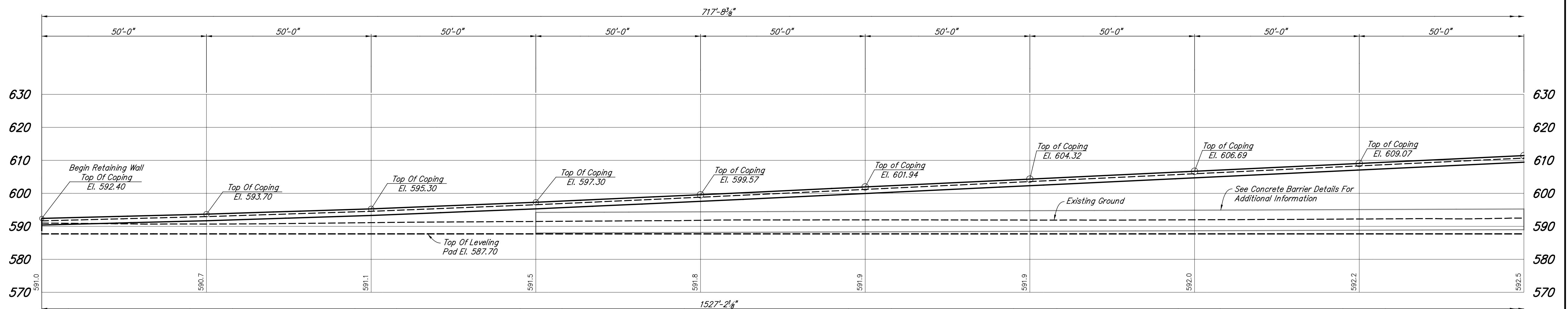
HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0", UNLESS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	26 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



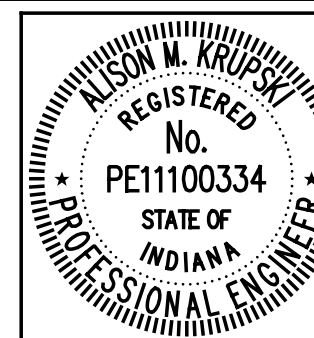
PLAN

NOTES:

- For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.
- For Section A-A, see Sheet No. 30.
- Elevation Shown Along Front Face of Wall.
- All Dimensions are Given Along Front Face of Wall.
- Maximum Factored Bearing Resistance = 5,000 PSF



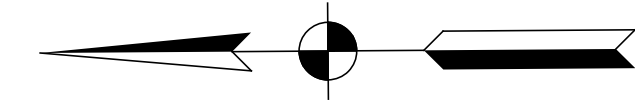
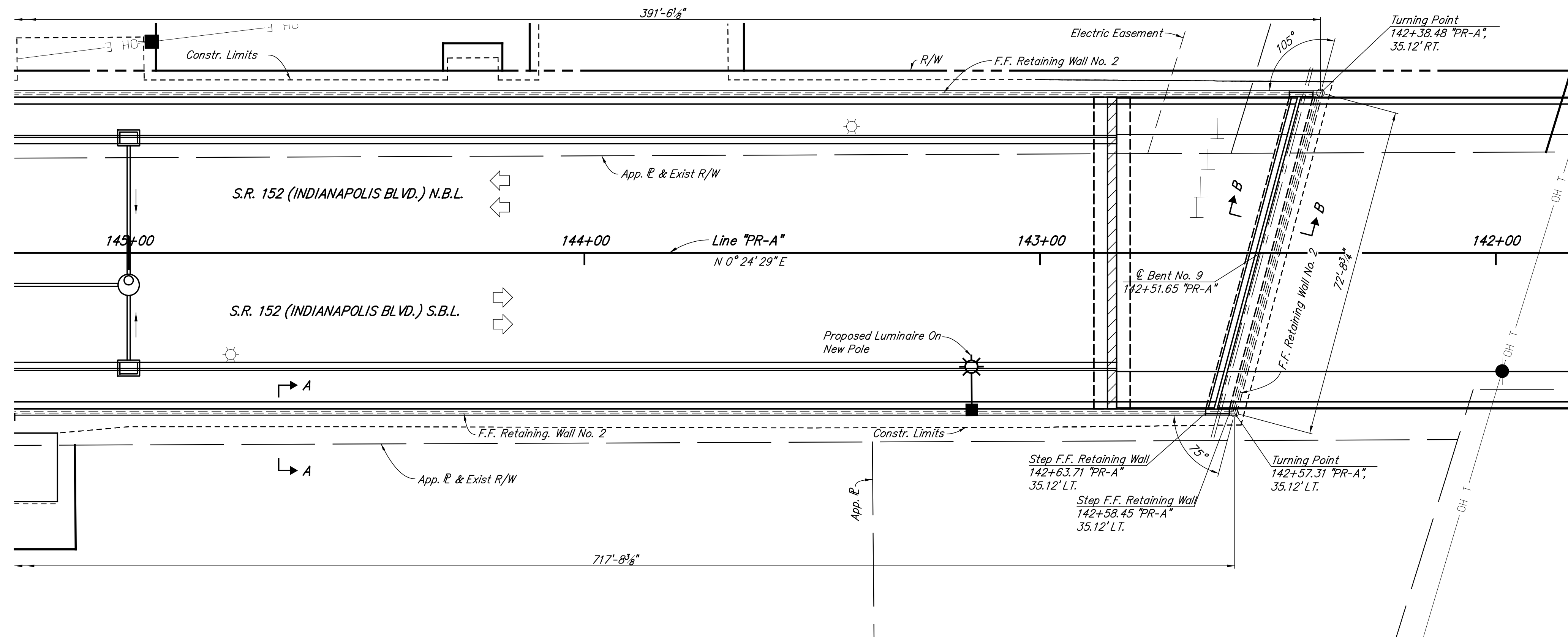
ELEVATION



RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	BNM	DRAWN: BNM
CHECKED:	DAD	CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION	
RETAINING WALL NO. 2 DETAILS	

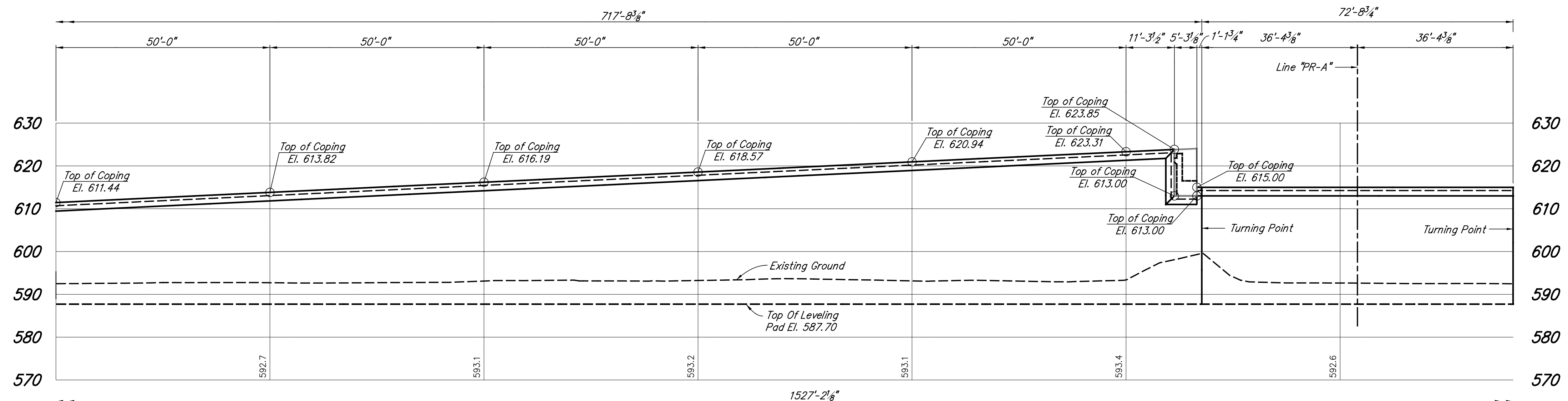
HORIZONTAL SCALE 1/16" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 27 of 149
CONTRACT B-33357	PROJECT NO. N881008



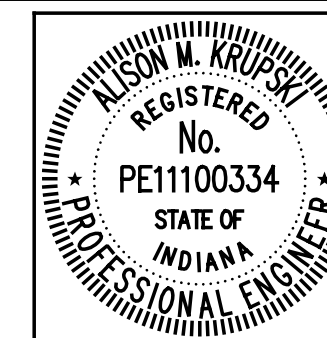
PLAN

NOTES:

- For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.
- For Section A-A and Section B-B, see Sheet No. 30.
- Elevation Shown Along Front Face of Wall.
- All Dimensions are Given Along Front Face of Wall.
- Maximum Factored Bearing Resistance = 5,000 PSF



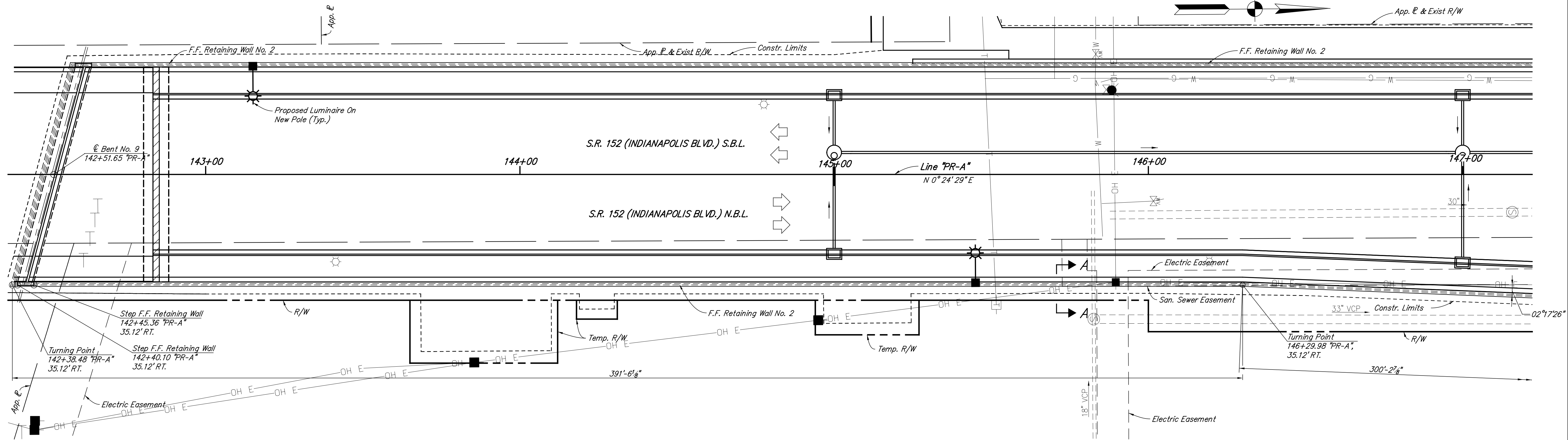
ELEVATION



RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	BNM	DRAWN: BNM
CHECKED:	DAD	CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION	
RETAINING WALL NO. 2 DETAILS	

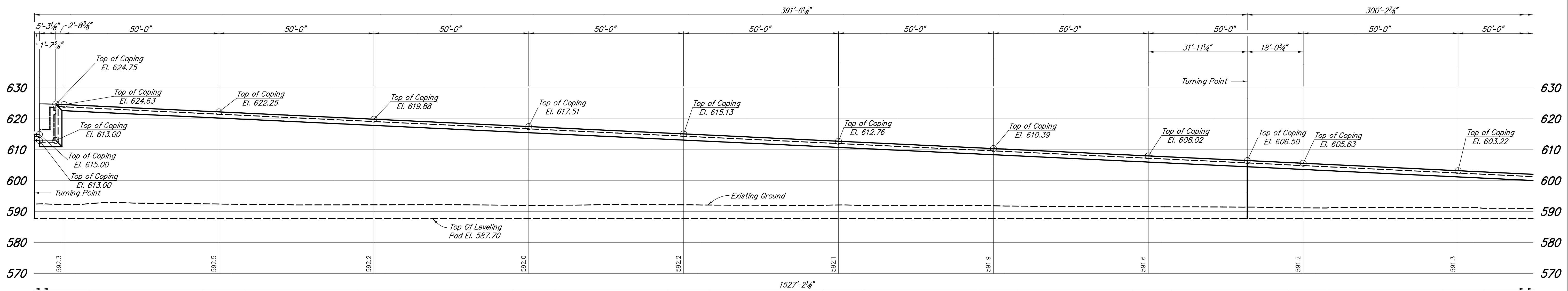
HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 28 of 149
CONTRACT B-33357	PROJECT NO. N881008



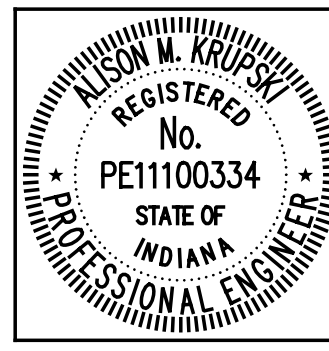
PLAN

NOTES:

- For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.
- For Section A-A, see Sheet No. 30.
- Elevation Shown Along Front Face of Wall.
- All Dimensions are Given Along Front Face of Wall.
- Maximum Factored Bearing Resistance = 5,000 PSF



ELEVATION



RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: BNM DRAWN: BNM
 CHECKED: DAD CHECKED: DAD

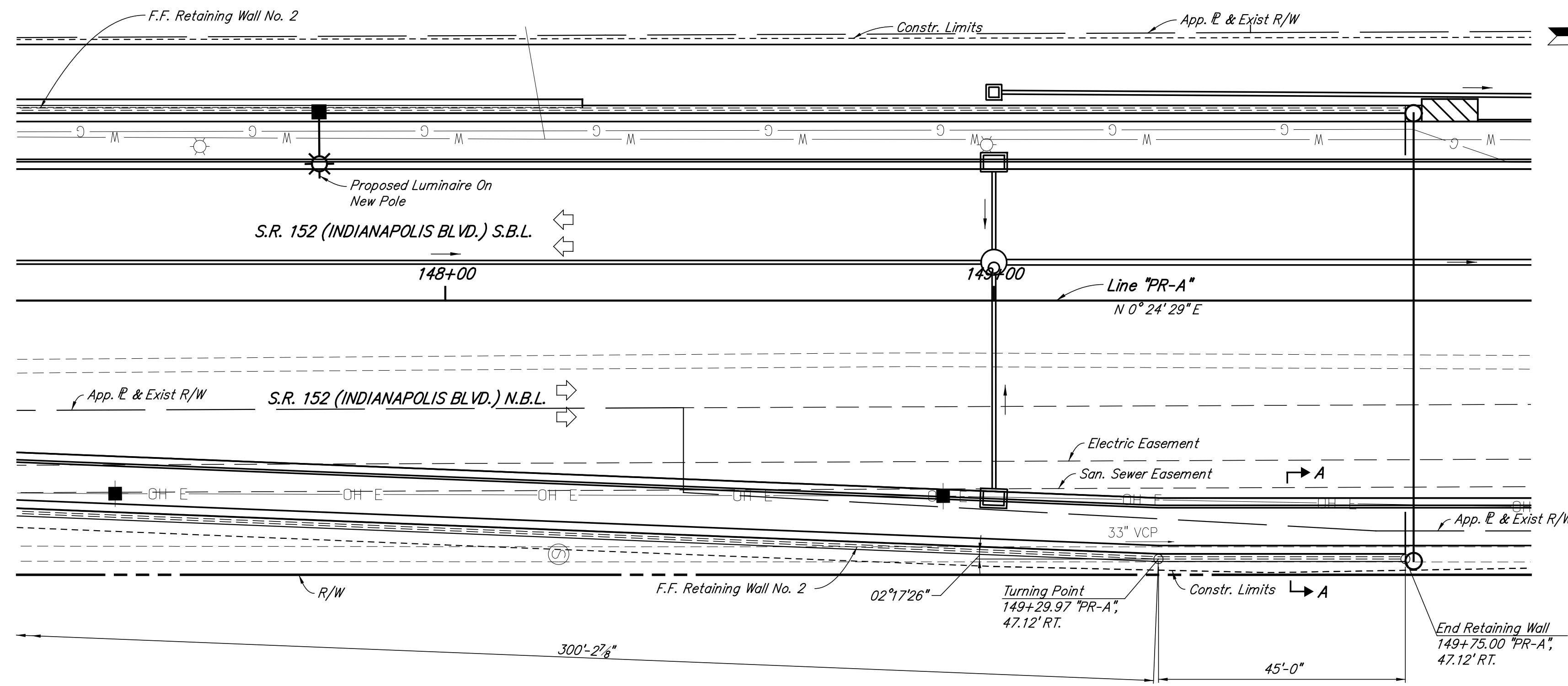
INDIANA DEPARTMENT OF TRANSPORTATION

RETAINING WALL NO. 2 DETAILS

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 29 of 149
CONTRACT B-33357	PROJECT NO. N881008

**RETAINING WALL NO. 2
BILL OF MATERIALS**

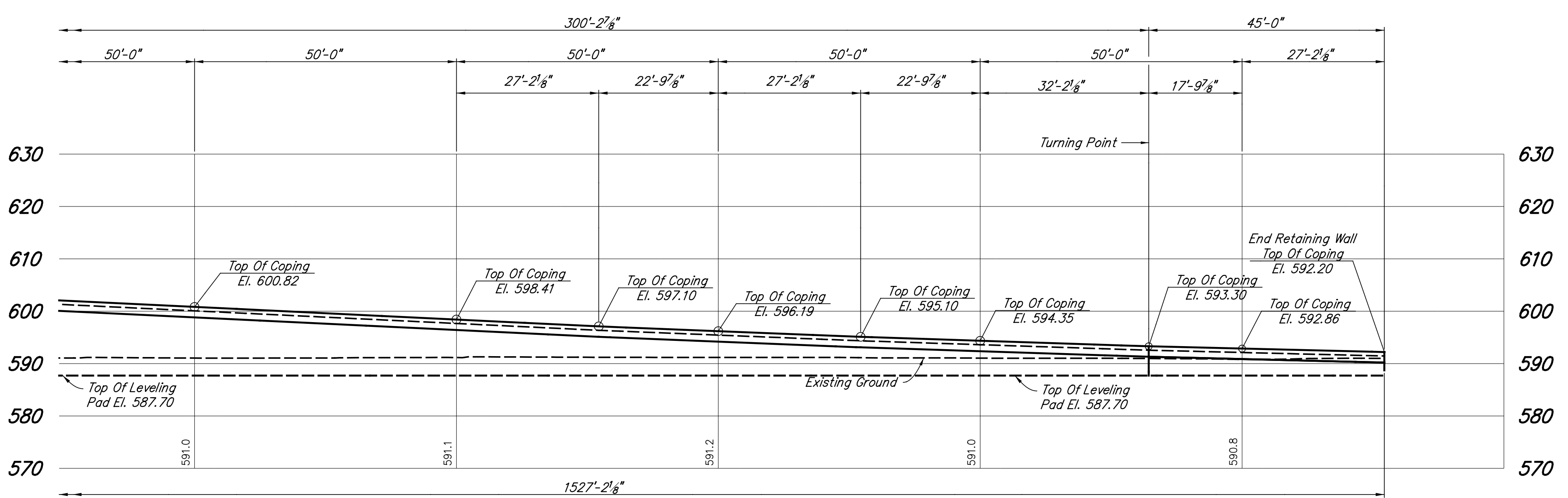
Retaining Wall	
Face Panels, Concrete	32018 Sft.
Wall Erection	32018 Sft.
Leveling Pad, Concrete	1527 Lft.
Seal Coat, Graffiti Resistant	27437 Sft.
Earthwork	
Structure Backfill, Type 3	16934 Cys.
"B" Borrow	9450 Cys.



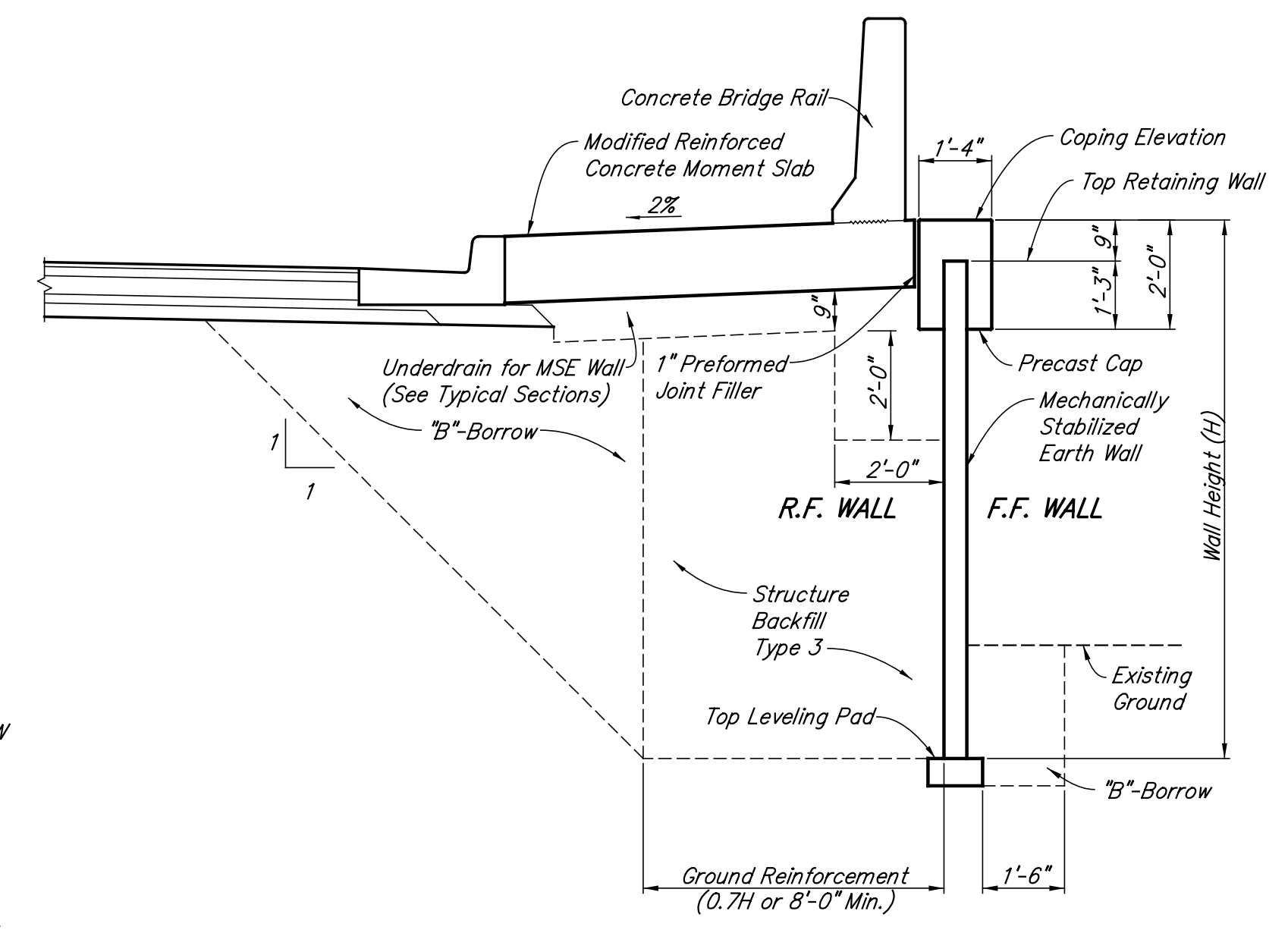
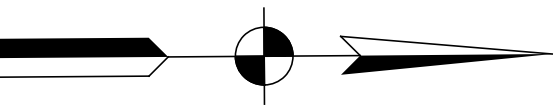
PLAN

NOTES:

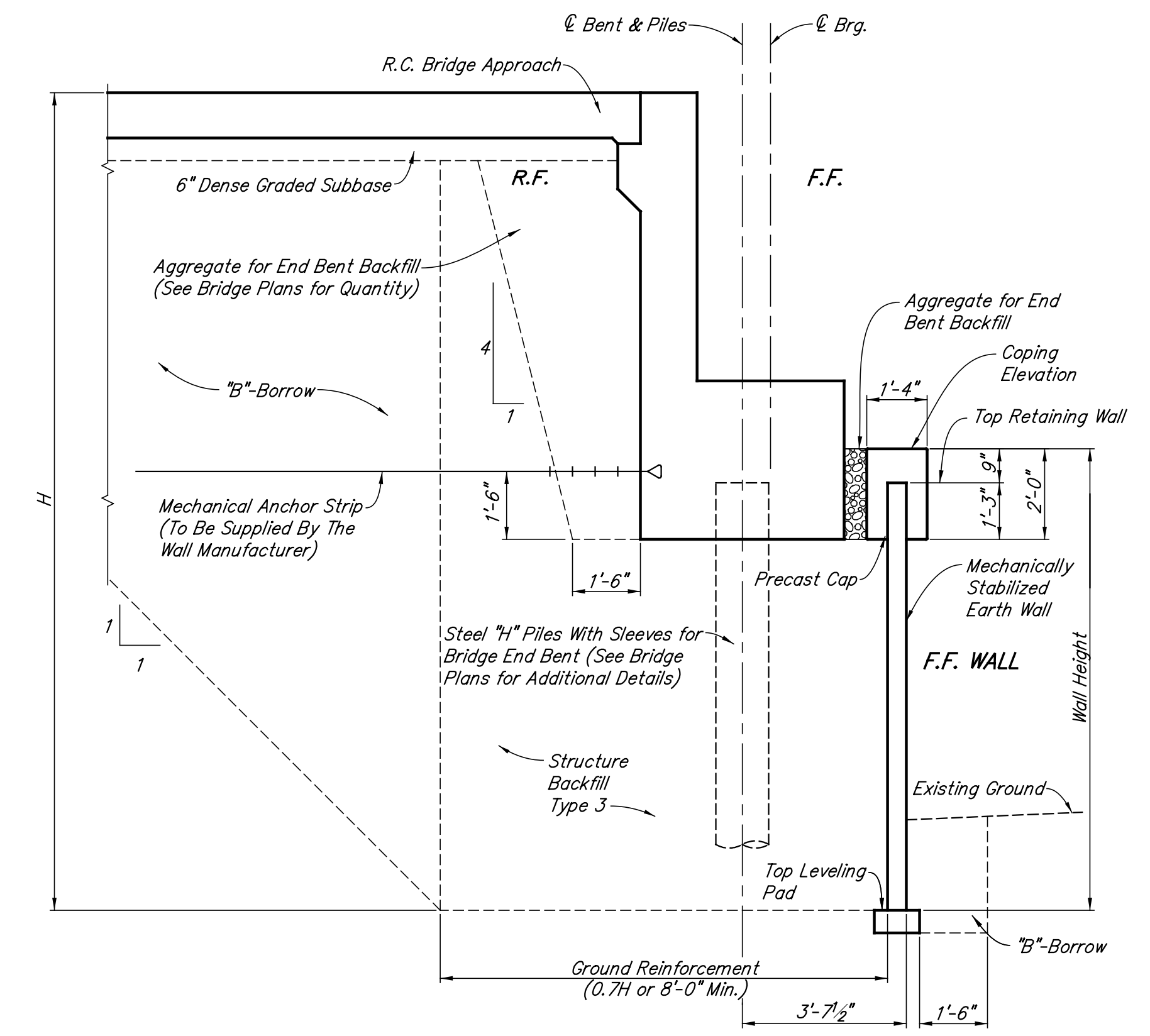
- For R/W Callouts and Drainage Details, see Road Plan & Profile Sheets.
- Elevation Shown Along Front Face of Wall.
- All Dimensions are Given Along Front Face of Wall.
- Mechanically Stabilized Earth Wall and Precast Cap dimensions vary depending on type of precast wall used. Engineer shall verify any changes.
- Maximum Factored Bearing Resistance = 5,000 PSF



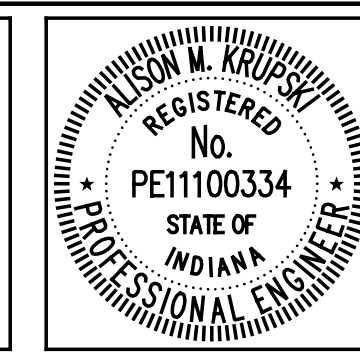
ELEVATION



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



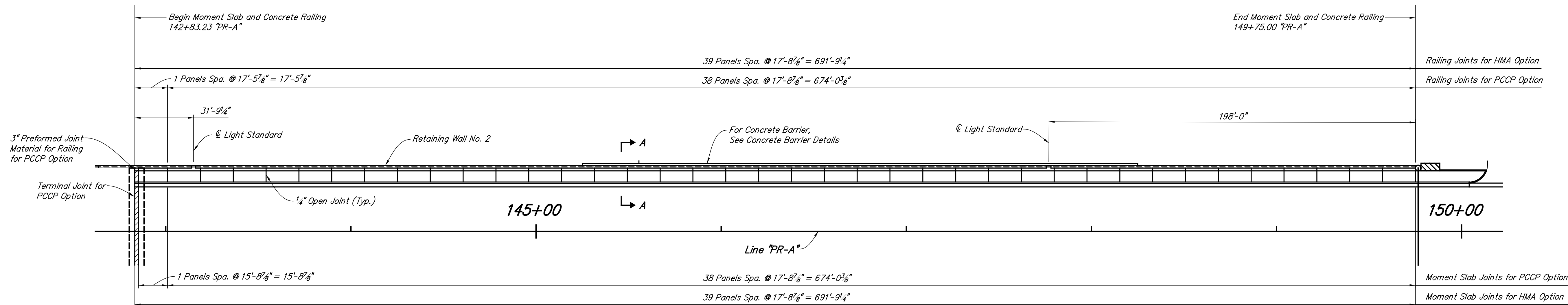
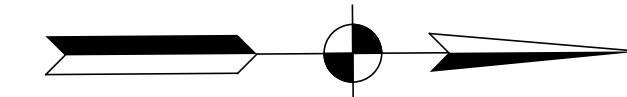
SECTION B-B
Scale: 3/8" = 1'-0"



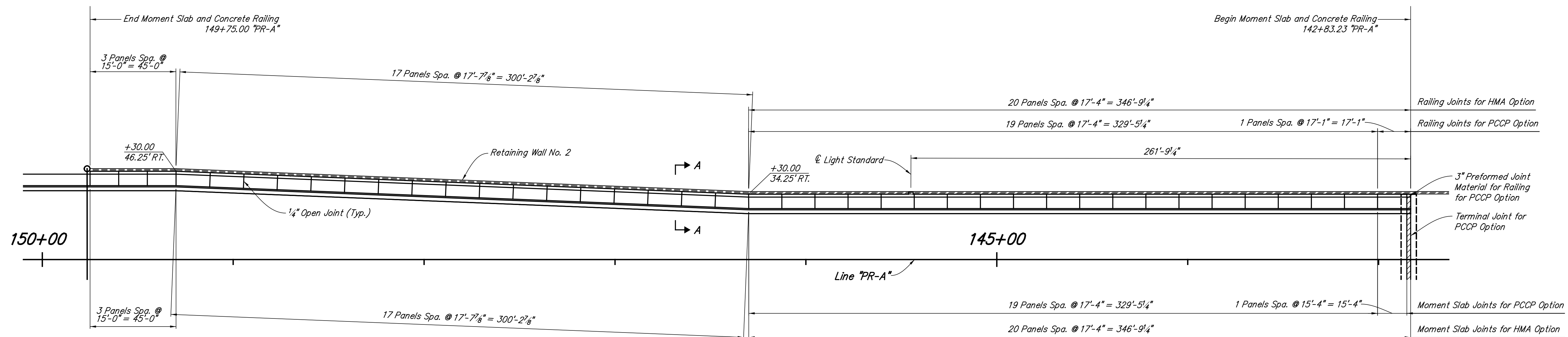
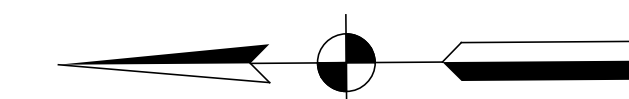
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	BNM	DRAWN:
CHECKED:	DAD	CHECKED:

INDIANA
DEPARTMENT OF TRANSPORTATION
RETAINING WALL NO. 2 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0", UNLESS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	30 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

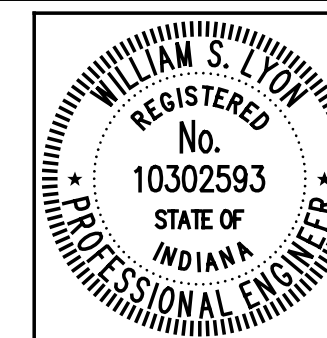


WEST PLAN



EAST PLAN

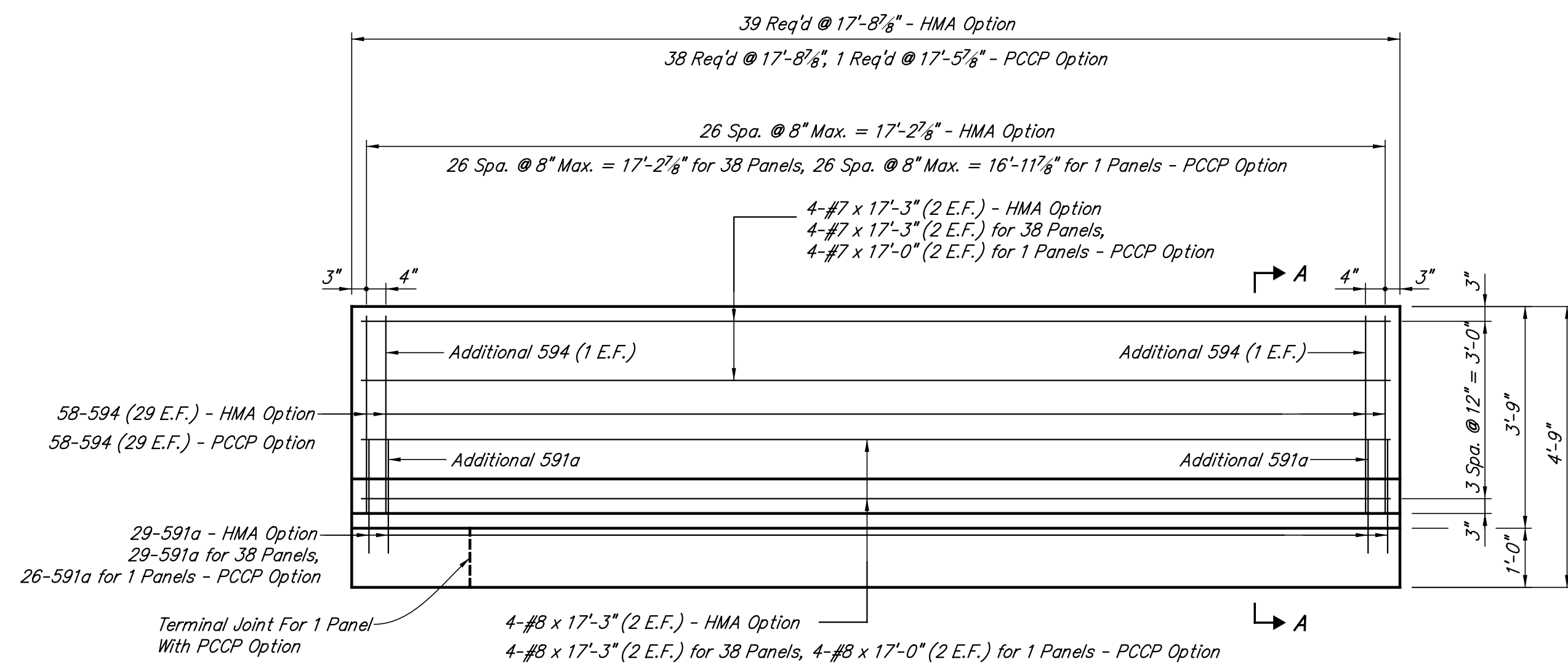
NOTE:
Concrete railing and moment slab joints shall coincide.
For moment slab joint details, see Std. Dwg. No. E 706-MSRW-09.



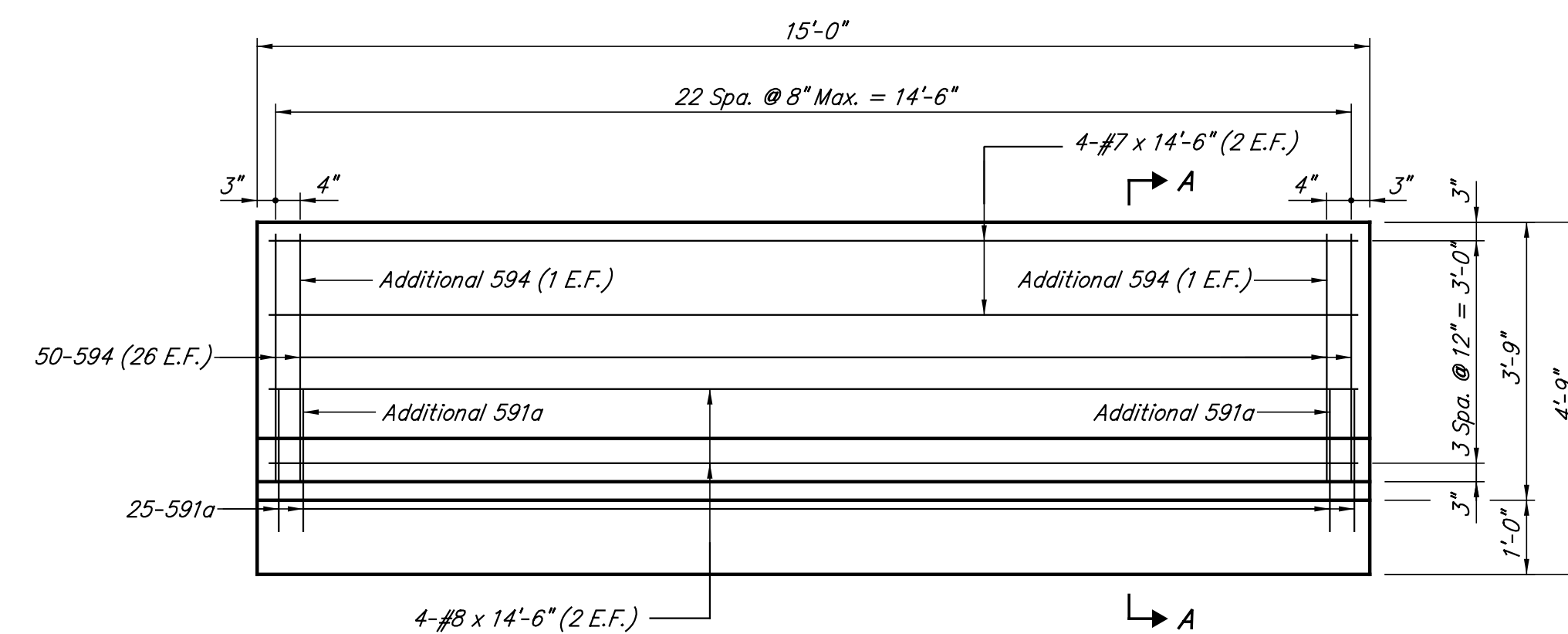
RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012
DESIGNED:	BMA	DRAWN: PAS
CHECKED:	DAD	CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION	
MOMENT SLAB AND RAILING DETAILS	

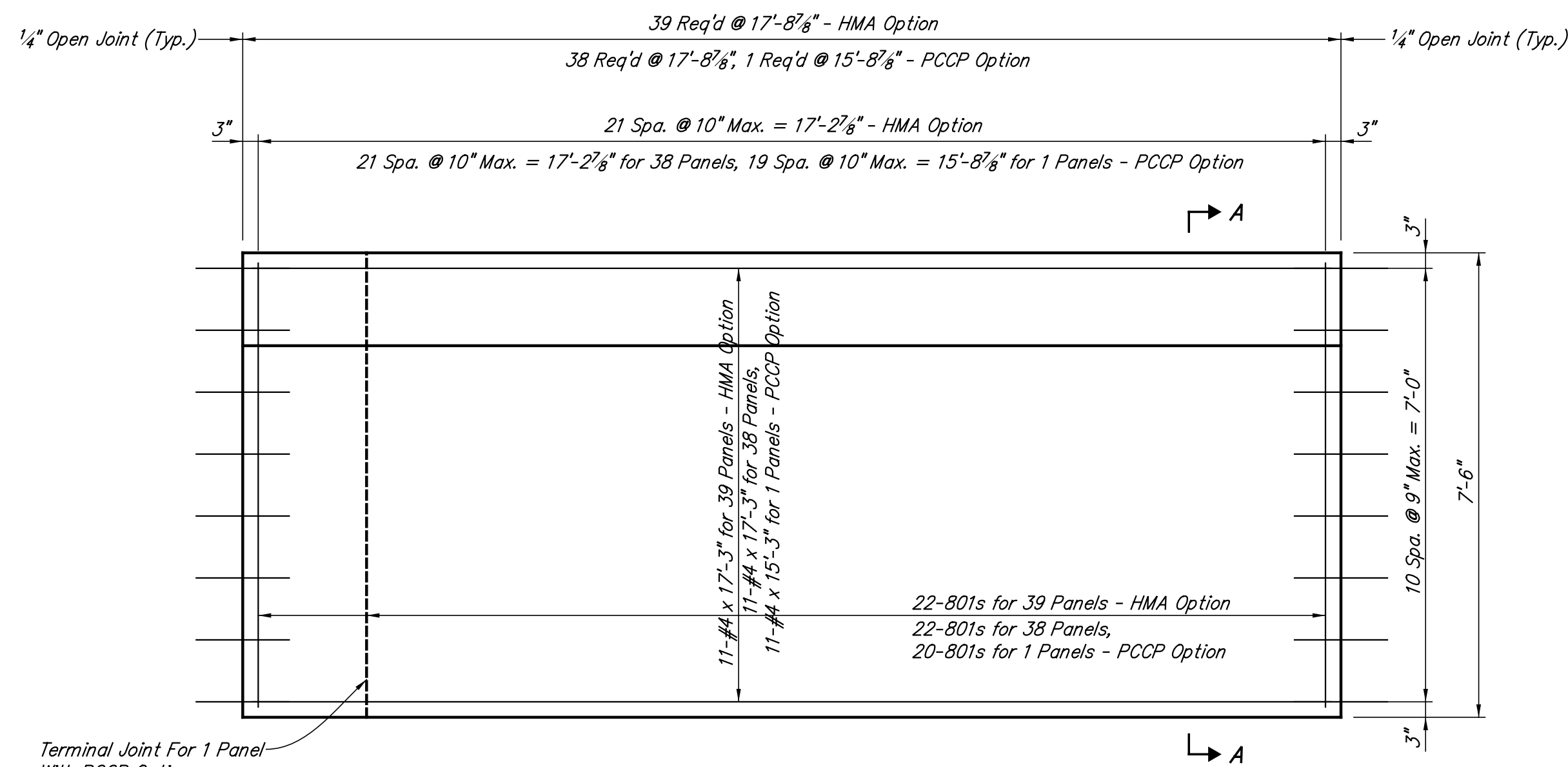
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 31 of 149
CONTRACT B-33357	PROJECT NO. N881008



ELEVATION

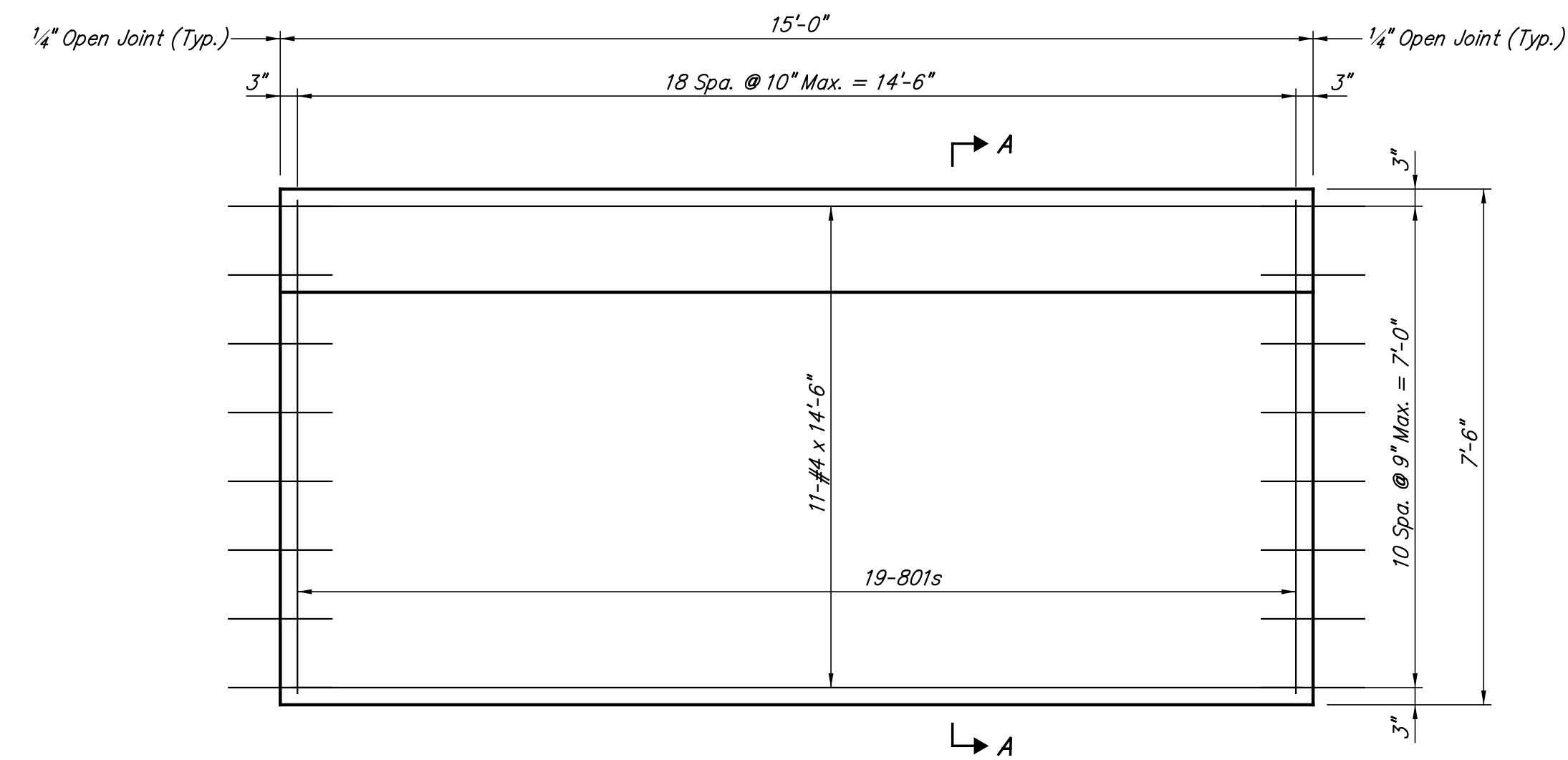


ELEVATION



PLAN

WEST PANEL DETAILS



PLAN

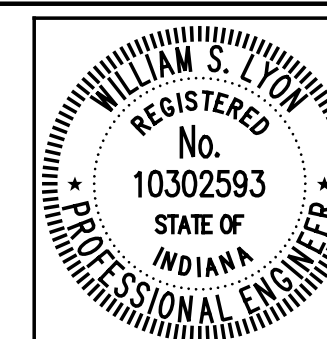
EAST PANEL DETAILS

(3 Req'd)

NOTES:

See Std. Dwg. No. E 706-MSRW-09 for moment slab joint details

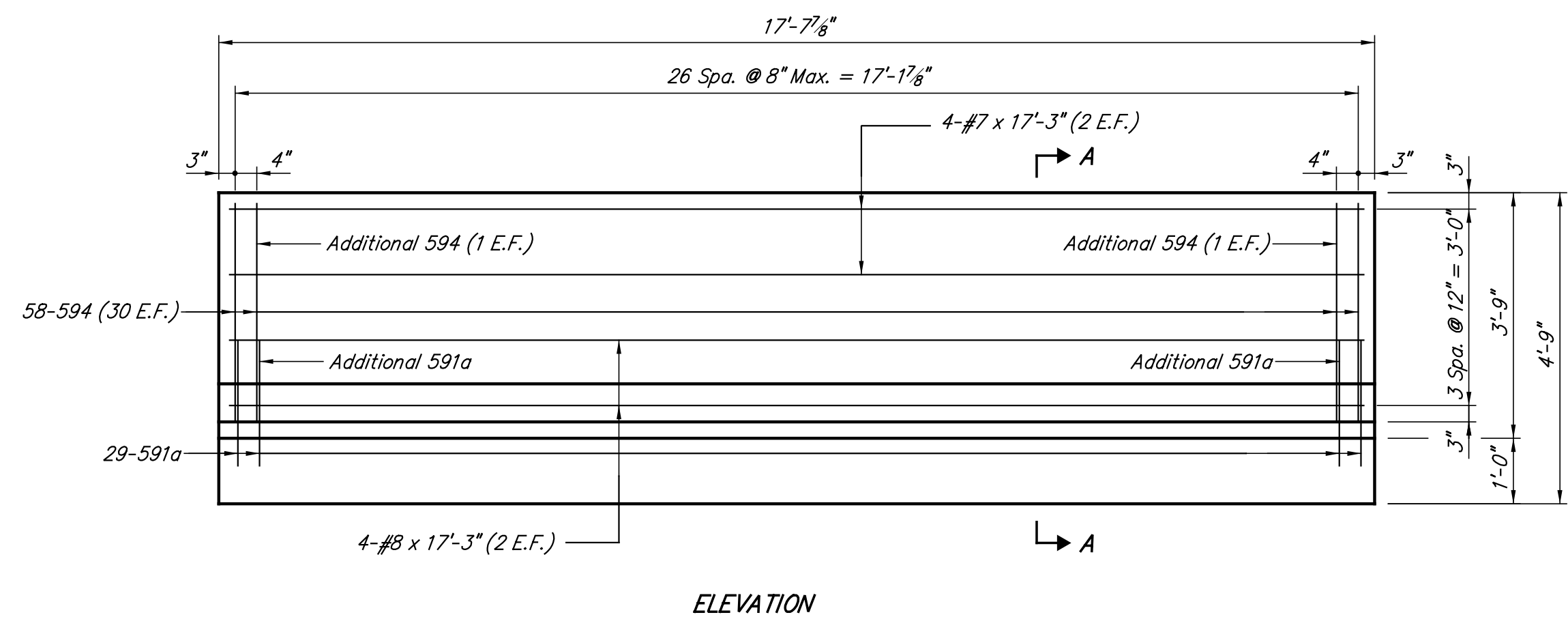
See Std. Dwg. No. E 503-CCPJ-01 for D-1 contraction joint details



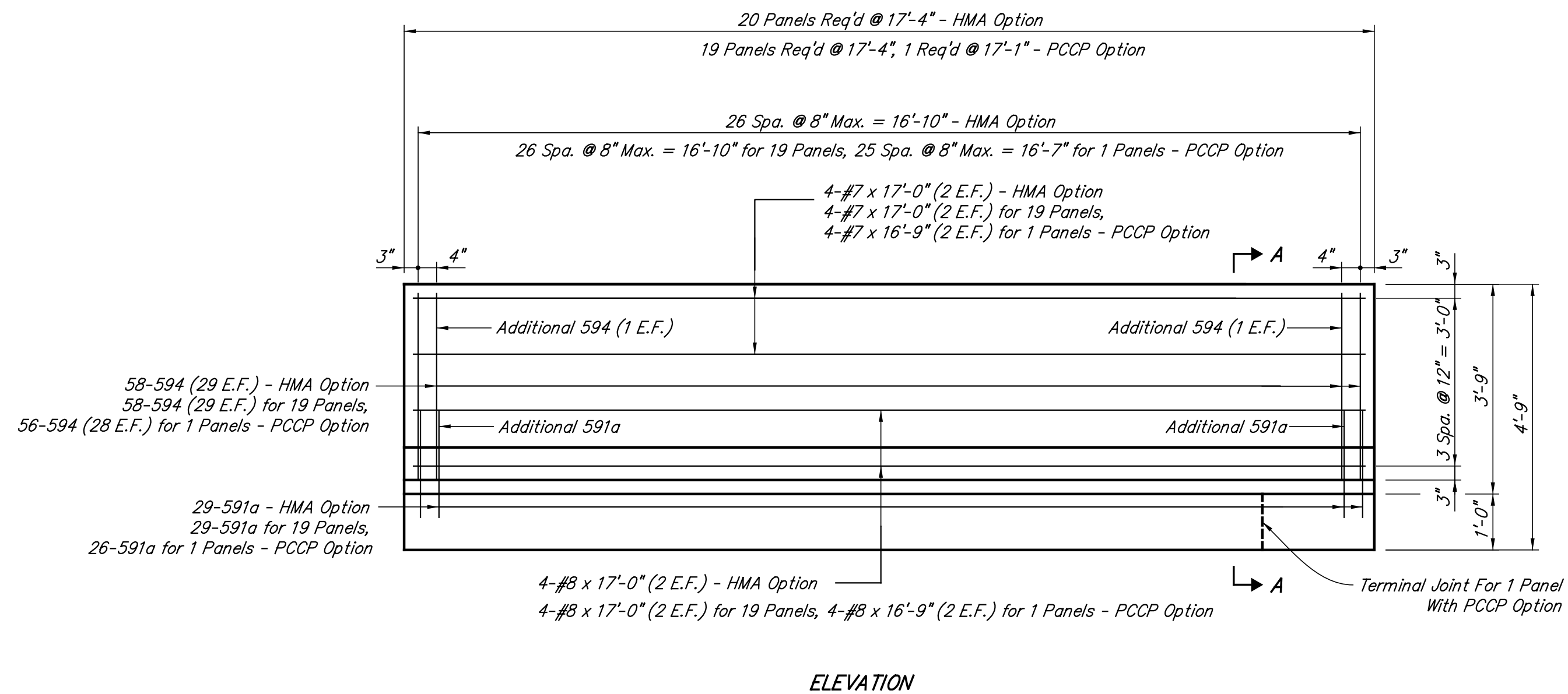
RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	BMA	DRAWN: PAS
CHECKED:	DAD	CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION	
MOMENT SLAB AND RAILING DETAILS	

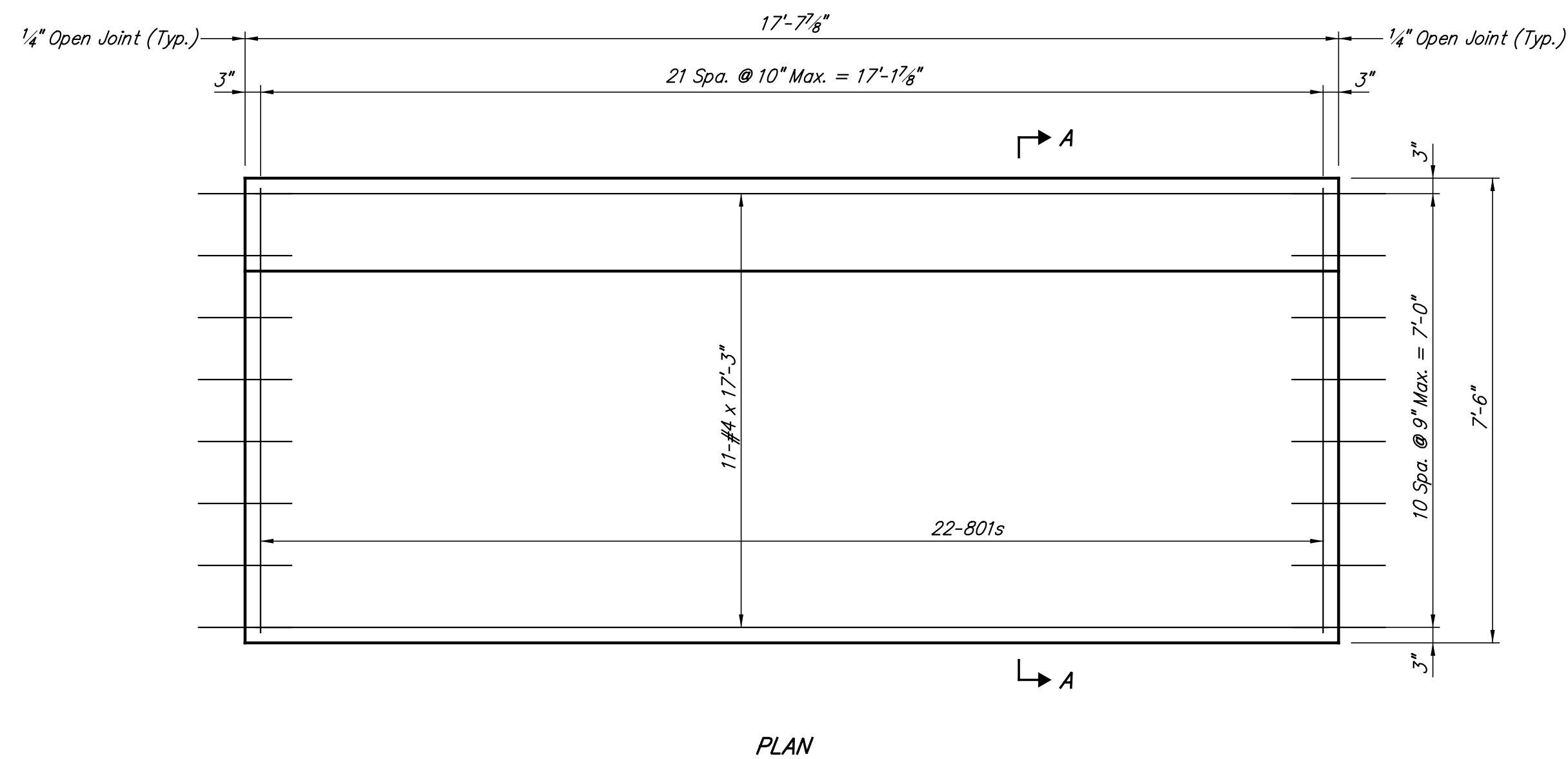
HORIZONTAL SCALE	BRIDGE FILE
1/2" = 1'-0"	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	32 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



ELEVATION

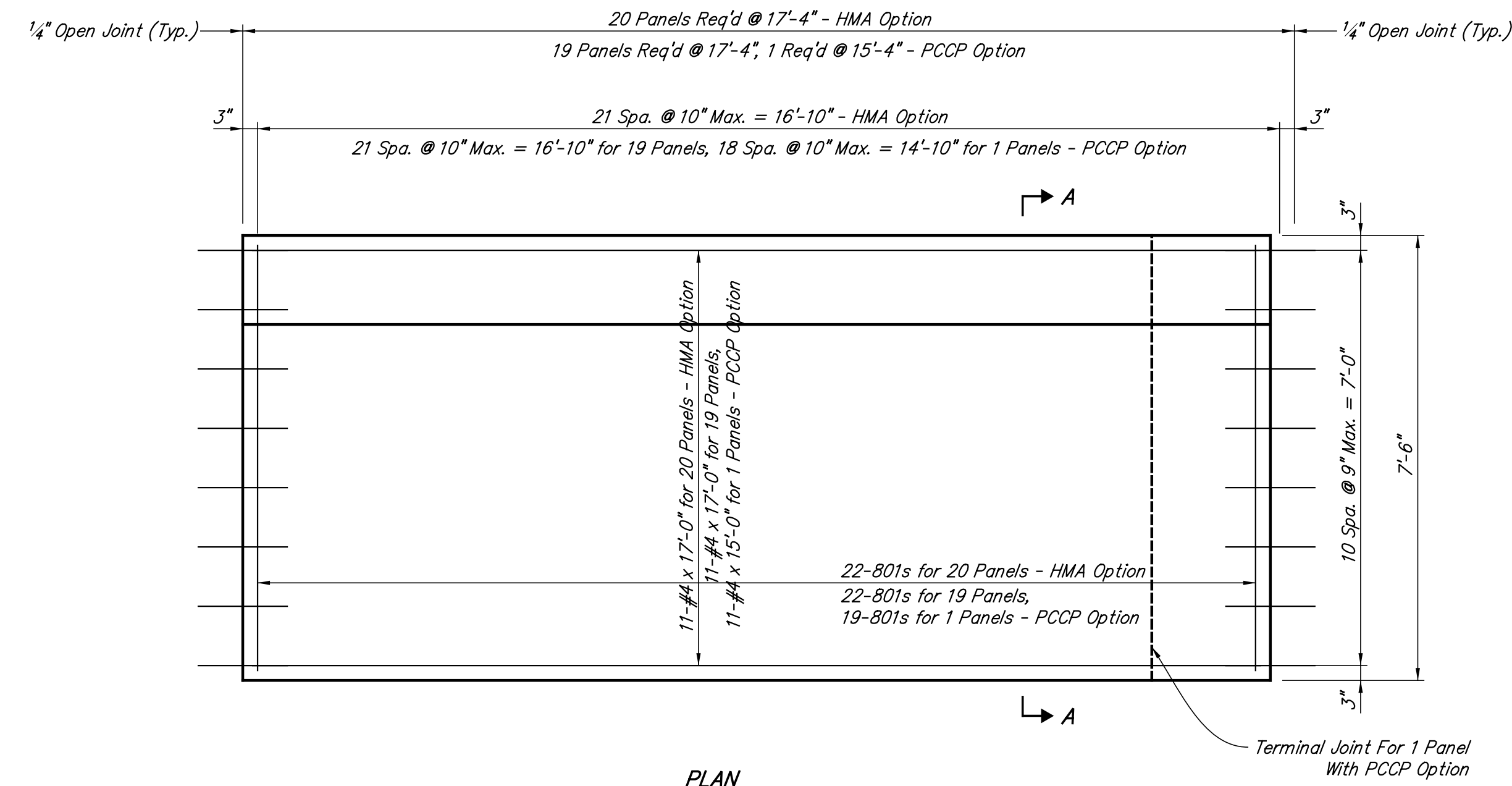


ELEVATION



PLAN

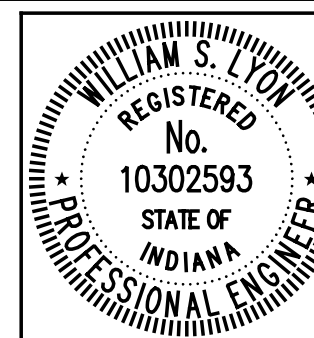
EAST PANEL DETAILS
(17 Req'd)



PLAN

EAST PANEL DETAILS

NOTES:
See Std. Dwg. No. E 706-MSRW-09 for moment slab joint details
See Std. Dwg. No. E 503-CCPJ-01 for D-1 contraction joint details



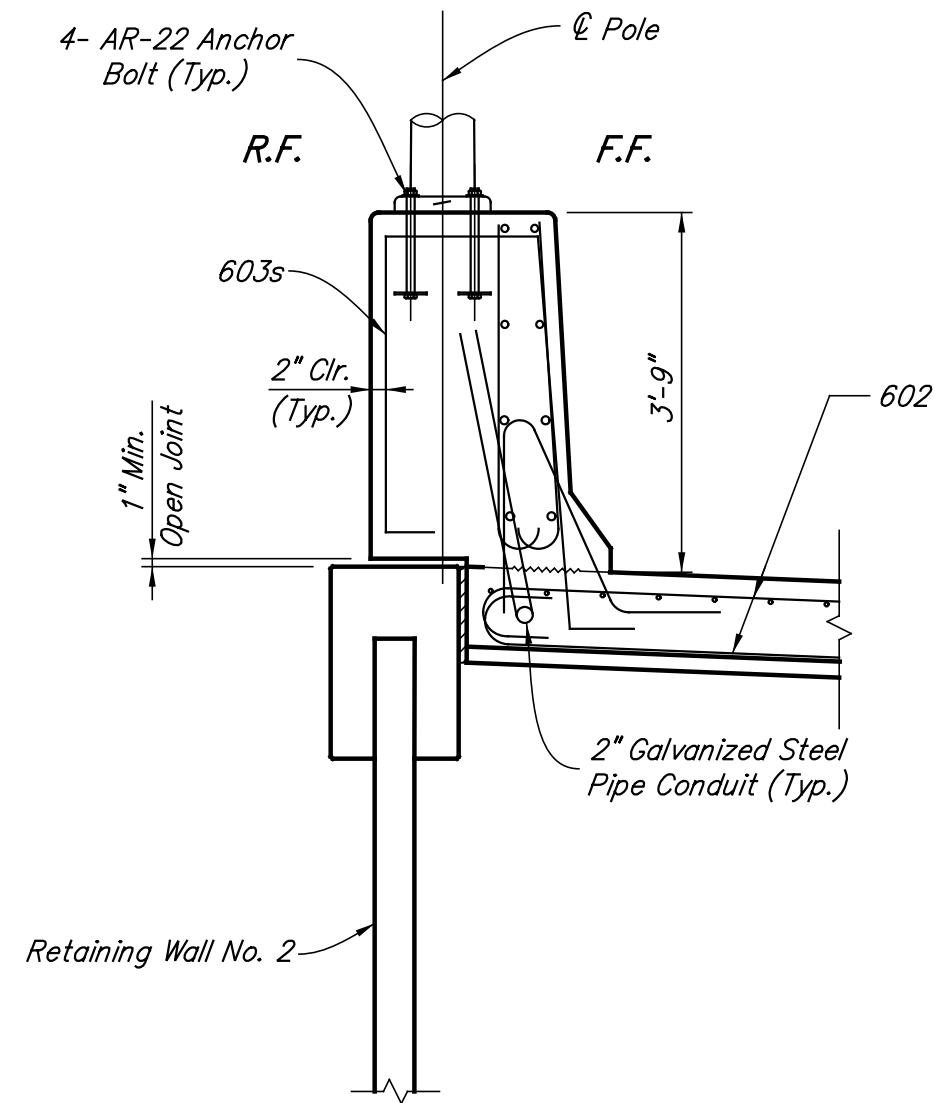
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: BMA DRAWN: PAS
CHECKED: DAD CHECKED: DAD

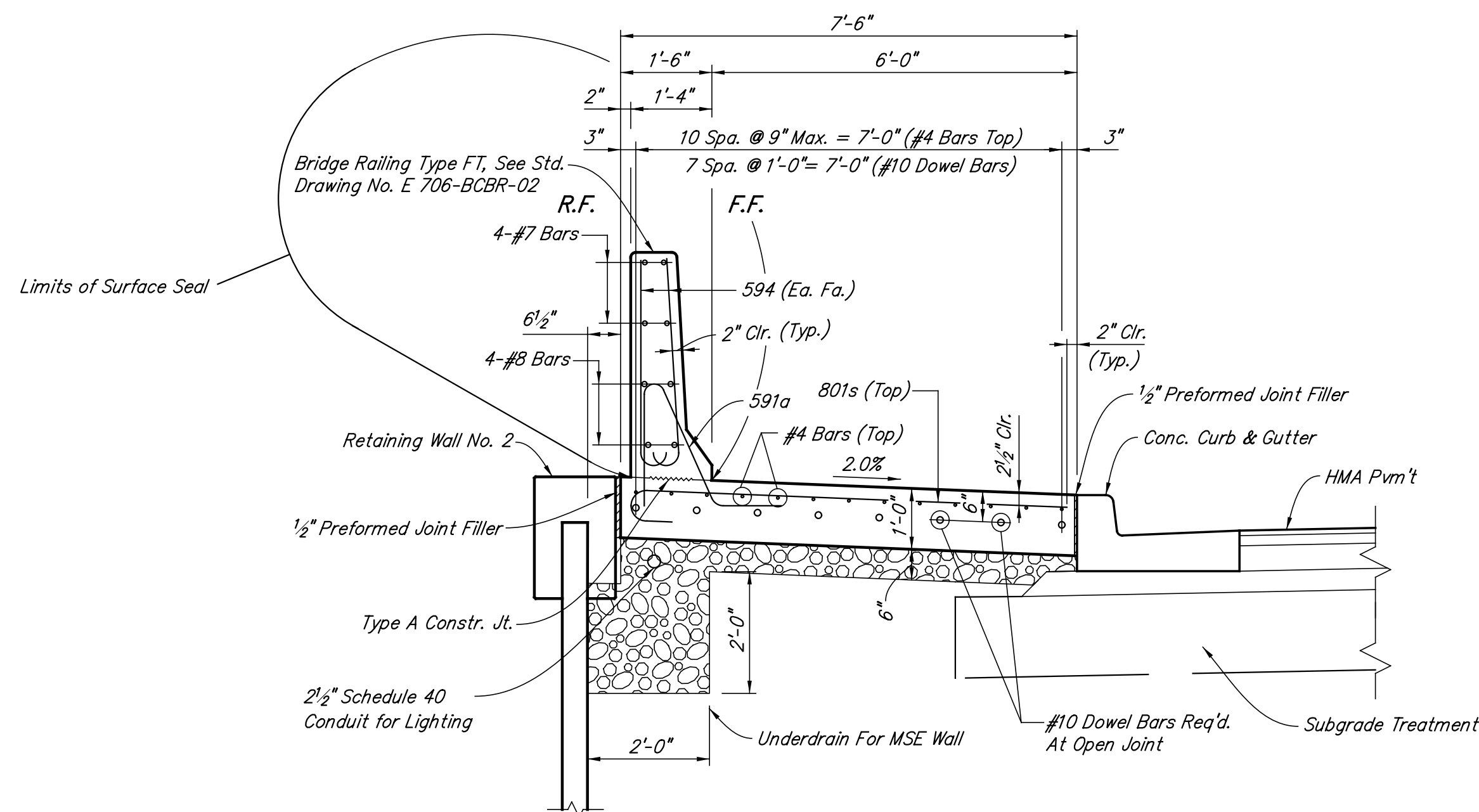
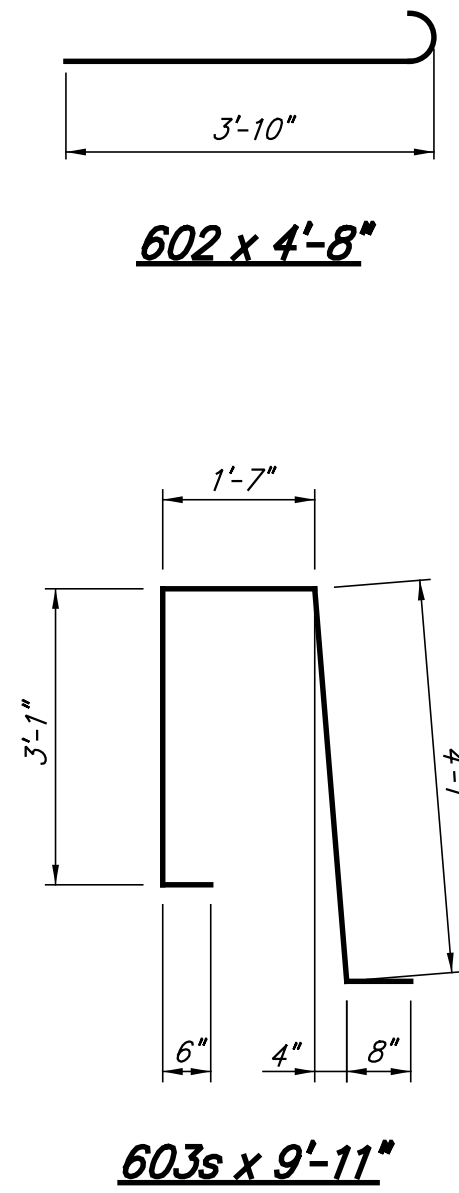
INDIANA
DEPARTMENT OF TRANSPORTATION

MOMENT SLAB AND RAILING DETAILS

HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 33 of 149
CONTRACT B-33357	PROJECT NO. N881008

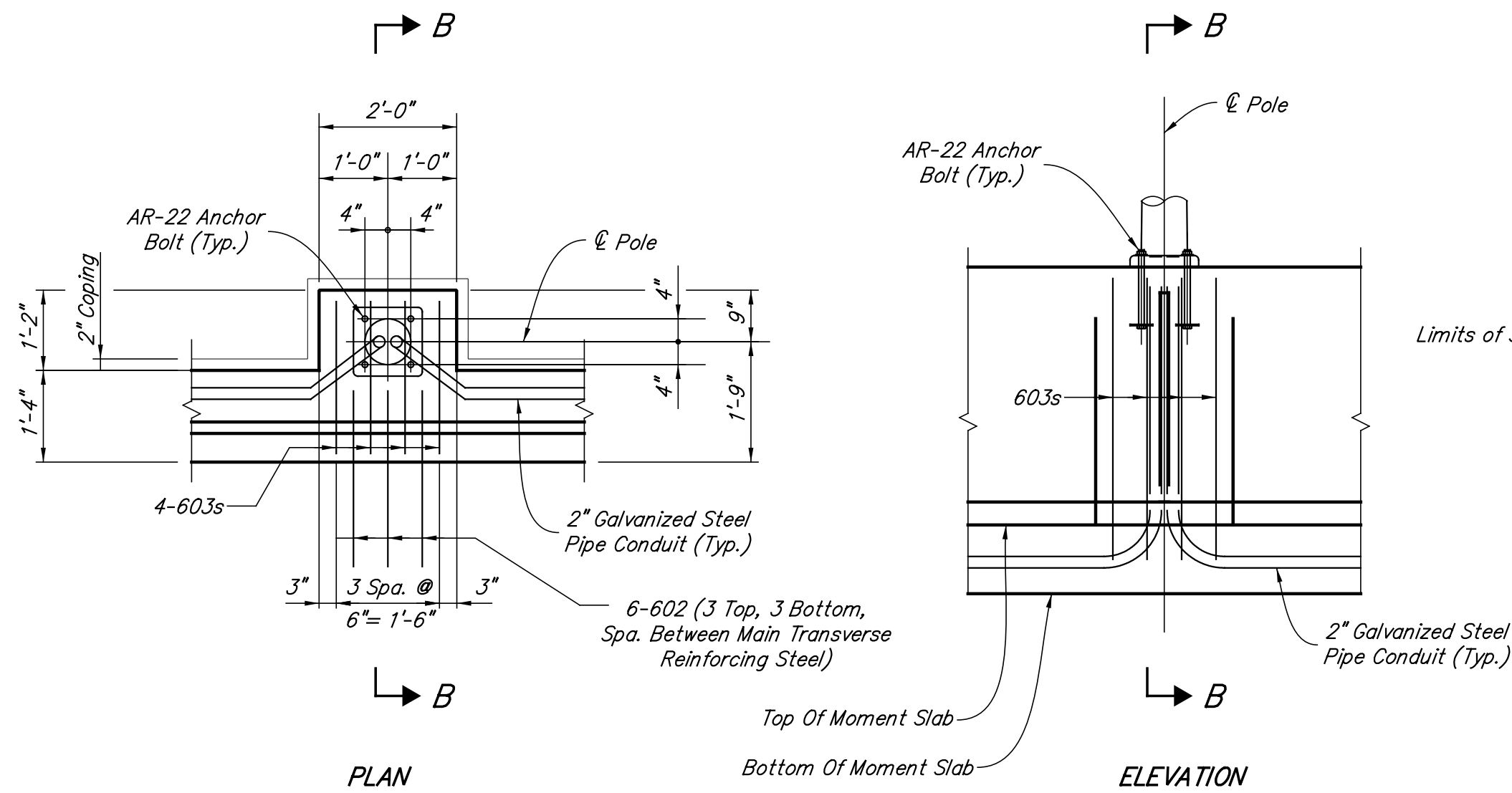


SECTION B-B
Scale: 1/2" = 1'-0"

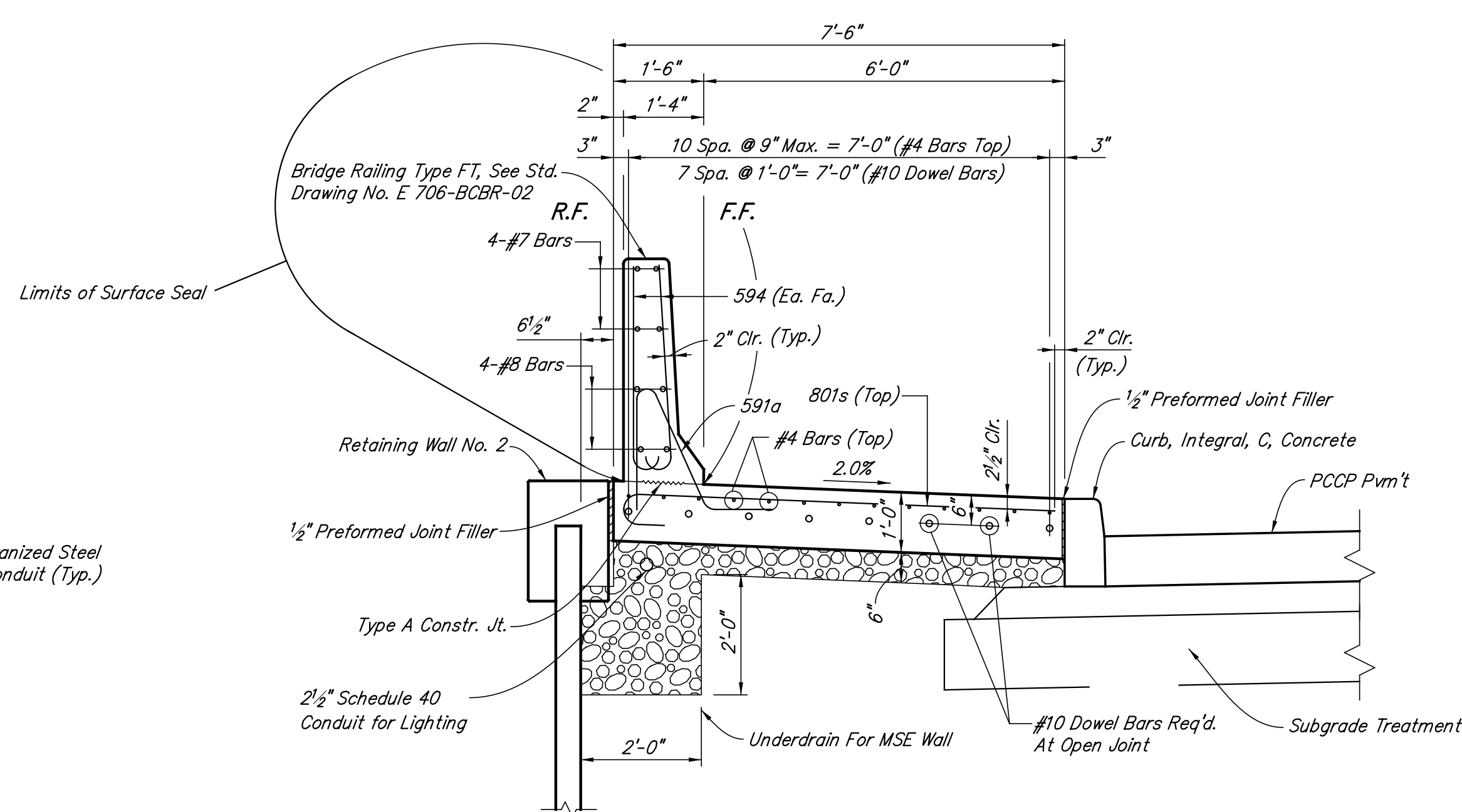


SECTION A-A (HMA OPTION)
Scale: 1/2" = 1'-0"

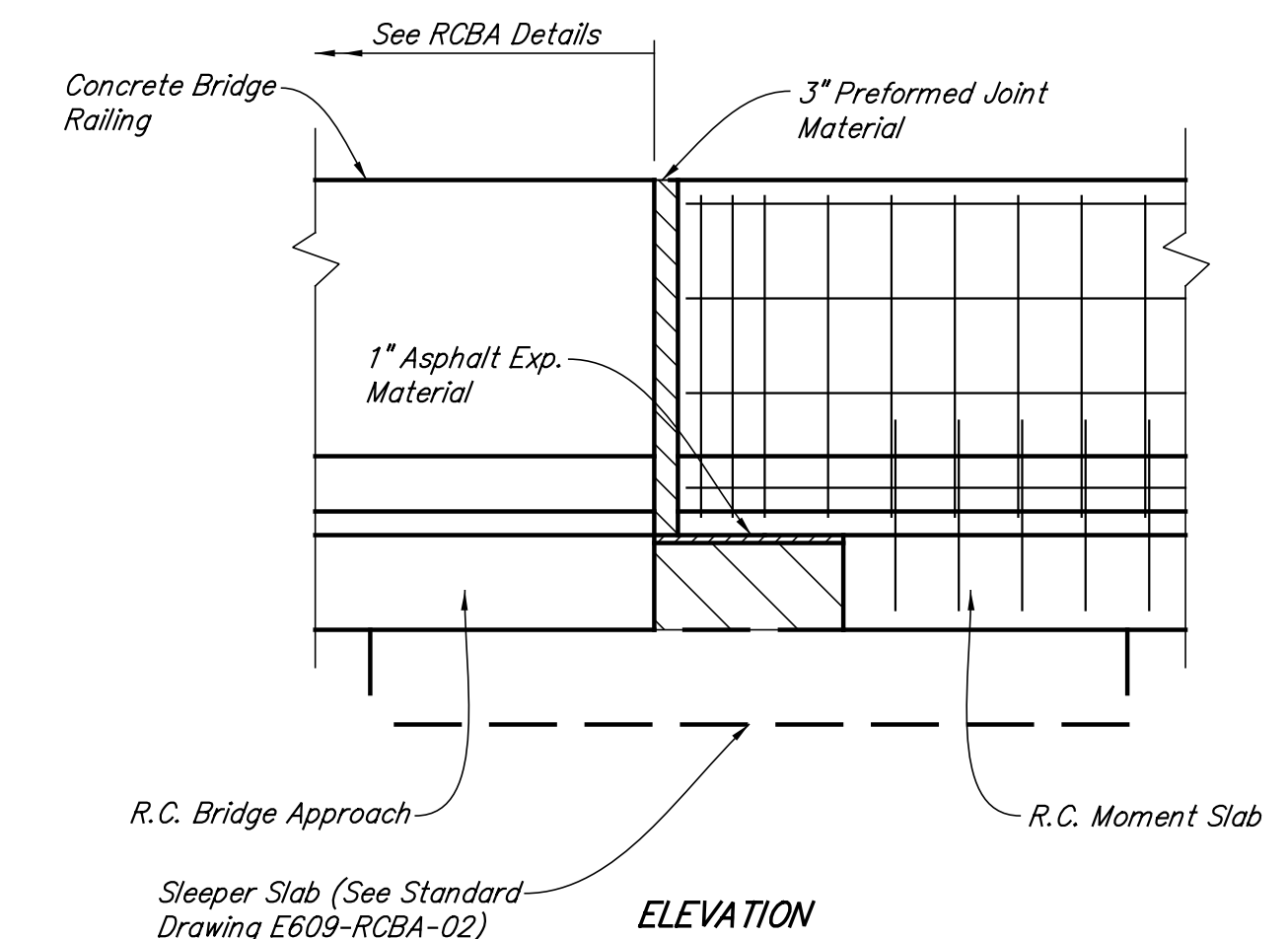
Epoxy Coated Reinforcing Steel				Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)	Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#8	224	17'-3"		#8	220	17'-3"	
#8	80	17'-0"		#8	80	17'-0"	
#8	12	14'-6"		#8	4	16'-9"	
				#8	12	14'-6"	
Total No.8			14,414	Total No.8			14,408
#7	224	17'-3"		#7	220	17'-3"	
#7	80	17'-0"		#7	80	17'-0"	
#7	12	14'-6"		#7	4	16'-9"	
				#7	12	14'-6"	
Total No.7			11,034	Total No.7			11,030
602	18	4'-8"		602	18	4'-8"	
603s	12	9'-11"		603s	12	9'-11"	
Total No.6			306	Total No.6			306
591a	2,279	5'-6"		591a	2,273	5'-6"	
594	4,558	4'-0"		594	4,556	4'-0"	
Total No.5			32,090	Total No.5			32,047
Total Epoxy Coated Reinforcing Steel			57,844	Total Epoxy Coated Reinforcing Steel			57,791
Concrete				Concrete			
Concrete Railing Class C			1,384 Lft.	Concrete Railing Class C			1,384 Lft.
Miscellaneous				Miscellaneous			
Reinforced Concrete Moment Slab, 12 In.			1,153 Sys.	Reinforced Concrete Moment Slab, 12 In.			1,150 Sys.
Surface Seal			11,610 Sft.	Surface Seal			11,610 Sft.
D-I Contraction Joints			578 Lft.	D-I Contraction Joints			578 Lft.
Anchor Bolt AR-22			12 Ea.	Anchor Bolt AR-22			12 Ea.



TYPICAL LIGHT FOUNDATION DETAILS
Scale: 1/2" = 1'-0"



SECTION A-A (PCCP OPTION)
Scale: 1/2" = 1'-0"



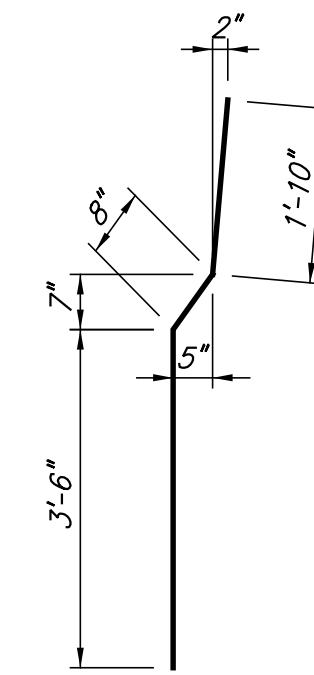
TERMINAL JOINT DETAIL (PCCP OPTION)
Scale: 1/2" = 1'-0"

NOTES:
See Std. Dwg. No. E 706-MSRW-10 for moment slab bar details

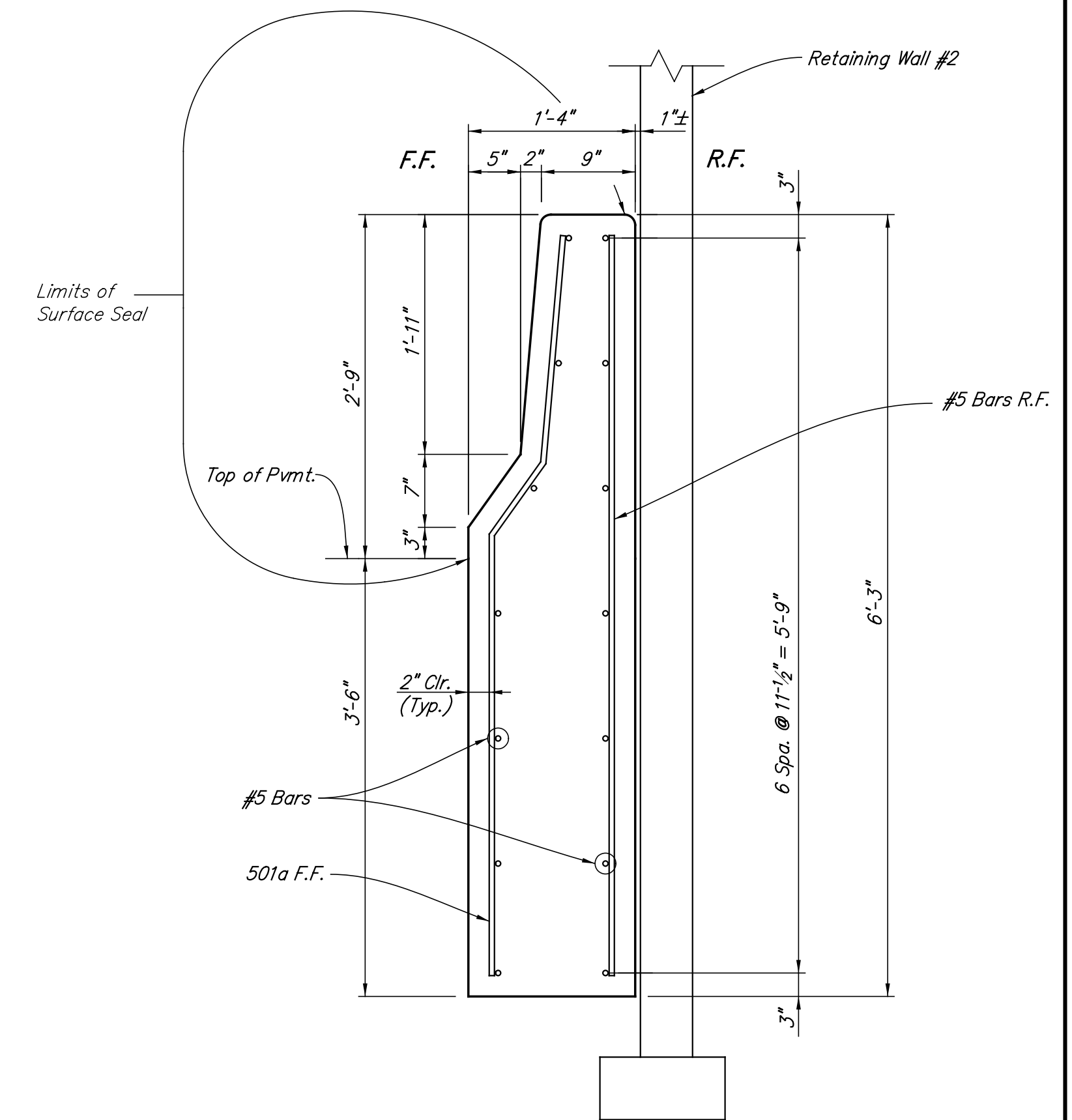
	RECOMMENDED FOR APPROVAL <i>William S. Taylor</i> DESIGN ENGINEER	6/1/2012 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE AS NOTED	BRIDGE FILE 152-45-02730
	DESIGNED: BMA DRAWN: PAS CHECKED: DAD CHECKED: DAD	MOMENT SLAB AND RAILING DETAILS		VERTICAL SCALE AS NOTED	DESIGNATION NO. 0014210
				SURVEY BOOK B-33357	SHEETS 34 of 149 PROJECT NO. N881008

**CONCRETE BARRIER
BILL OF MATERIALS**

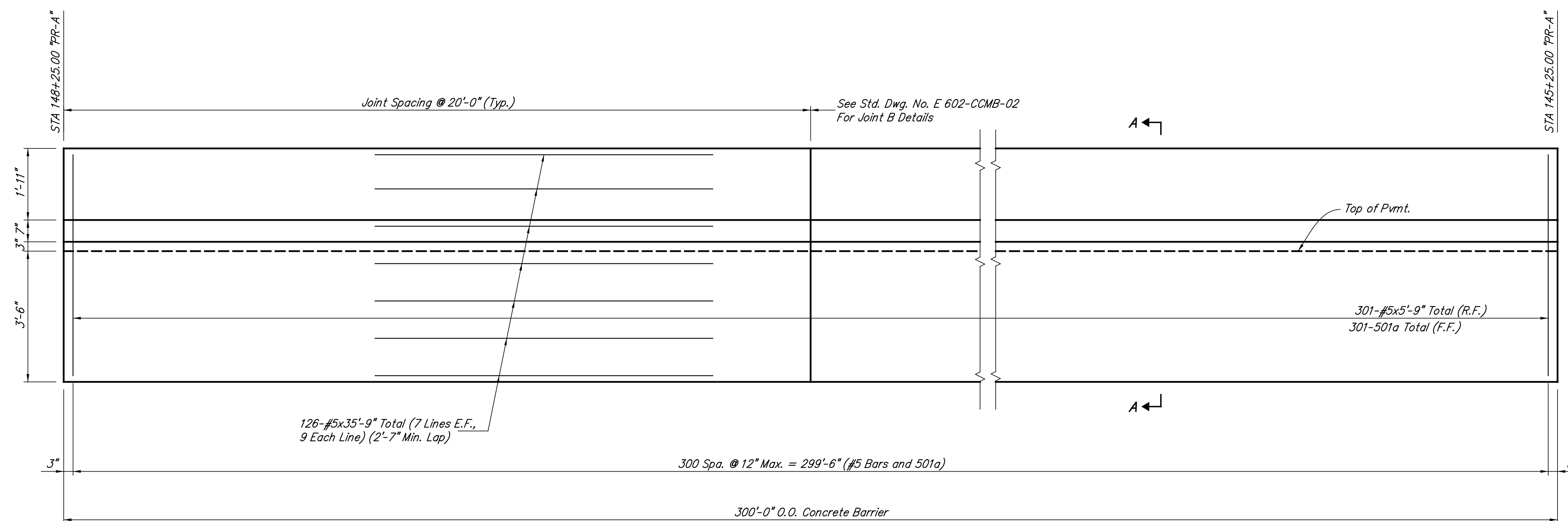
Plain Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
501a	301	6'-0"	
#5	301	5'-9"	
#5	126	35'-9"	
Total No.5			8,388
Total Plain Reinforcing Steel			8,388
Concrete			
Concrete Barrier Class A			81 Cys.
Miscellaneous			
Surface Seal			1100 Sft.



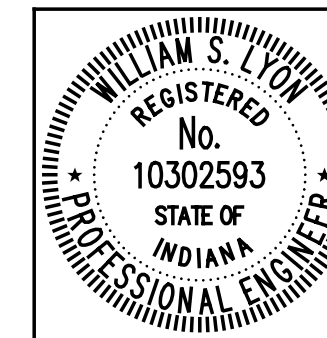
501a x 6'-0"



SECTION A-A
(CONCRETE BARRIER, 33 IN., MODIFIED)
Scale: 1"=1'-0"



PARTIAL ELEVATION - F.F. CONCRETE BARRIER
No Scale



RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: DAD DRAWN: PAS
CHECKED: DAD CHECKED: DAD

INDIANA
DEPARTMENT OF TRANSPORTATION

**CONCRETE BARRIER
DETAILS**

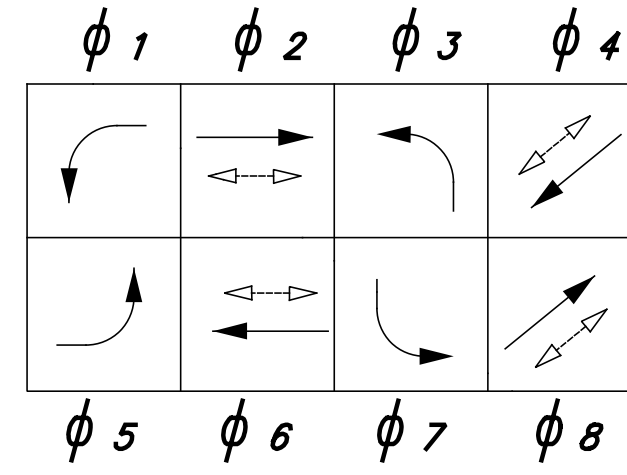
HORIZONTAL SCALE AS NOTED	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 35 of 149
CONTRACT B-33357	PROJECT NO. N881008

FOUNDATION	CORNER	STATION OFFSET
SP #1 - Existing Foundation	NE	117+94.32 "PR-A" 40.98 RT
SP #2	NW	118+74.11 "PR-A" 63.19 LT
SP #3 - Existing Foundation	SW	117+40.72 "PR-A" 46.99 ; T
SP #4 - Existing Foundation	SE	116+60.61 "PR-A" 51.88 RT
Existing Controller Cabinet	NE	118+00.00 "PR-A" 42.93 RT

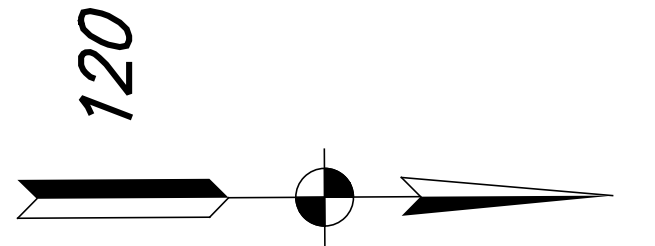
LOOP TAGGING TABLE

LANE	TAG NUMBER
NL	NL5-1,2
SL	SL1-1,2,3,4
SA	SA6-1
SB	SB6-1
EL	EL7-1,2
EA	EA4-1,2
EB	EB4-1,2
WL	WL3-1,2
WA	WA8-1,2
WB	WB8-1,2

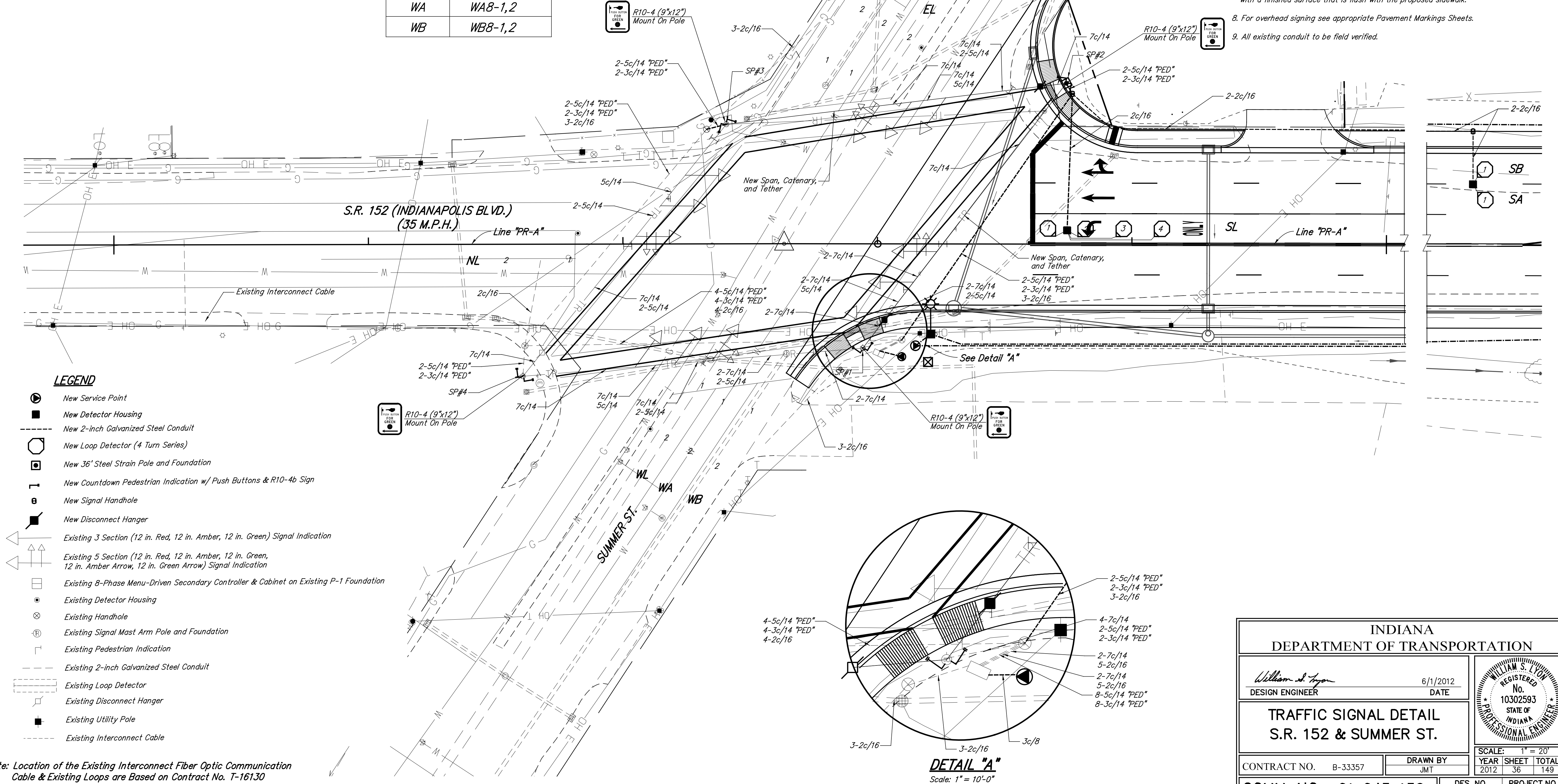
PHASE DIAGRAM



ALL APPROACHES FLASH RED



- Notes:**
1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
 2. "F/O" denotes fiber optic interconnect cable
 3. "PED" denotes both a new 5c/14 signal cable and a new 3c/14 signal cable for the pedestrian indication and pedestrian push button, respectively.
 4. "CoAx" denotes a new coaxial cable for the yagi radio antenna.
 5. All stationing and offsets are from Line "PR-A", unless otherwise noted.
 6. Signal pole foundations, pedestal foundations, and cabinet footpad shall be constructed with a finished surface that is flush with the proposed sidewalk.
 7. For overhead signing see appropriate Pavement Markings Sheets.
 8. All existing conduit to be field verified.



LEGEND

- New Service Point
- New Detector Housing
- New 2-inch Galvanized Steel Conduit
- New Loop Detector (4 Turn Series)
- New 36' Steel Strain Pole and Foundation
- New Countdown Pedestrian Indication w/ Push Buttons & R10-4b Sign
- New Signal Handhole
- New Disconnect Hanger
- Existing 3 Section (12 in. Red, 12 in. Amber, 12 in. Green) Signal Indication
- Existing 5 Section (12 in. Red, 12 in. Amber, 12 in. Green, 12 in. Amber Arrow, 12 in. Green Arrow) Signal Indication
- Existing 8-Phase Menu-Driven Secondary Controller & Cabinet on Existing P-1 Foundation
- Existing Detector Housing
- Existing Handhole
- Existing Signal Mast Arm Pole and Foundation
- Existing Pedestrian Indication
- Existing 2-inch Galvanized Steel Conduit
- Existing Loop Detector
- Existing Disconnect Hanger
- Existing Utility Pole
- Existing Interconnect Cable

Note: Location of the Existing Interconnect Fiber Optic Communication Cable & Existing Loops are Based on Contract No. T-16130

INDIANA DEPARTMENT OF TRANSPORTATION	
<i>William S. Lyon</i> DESIGN ENGINEER	6/1/2012 DATE
TRAFFIC SIGNAL DETAIL S.R. 152 & SUMMER ST.	
CONTRACT NO. B-33357	DRAWN BY JMT
DES. NO. 0014210	PROJECT NO. N881008

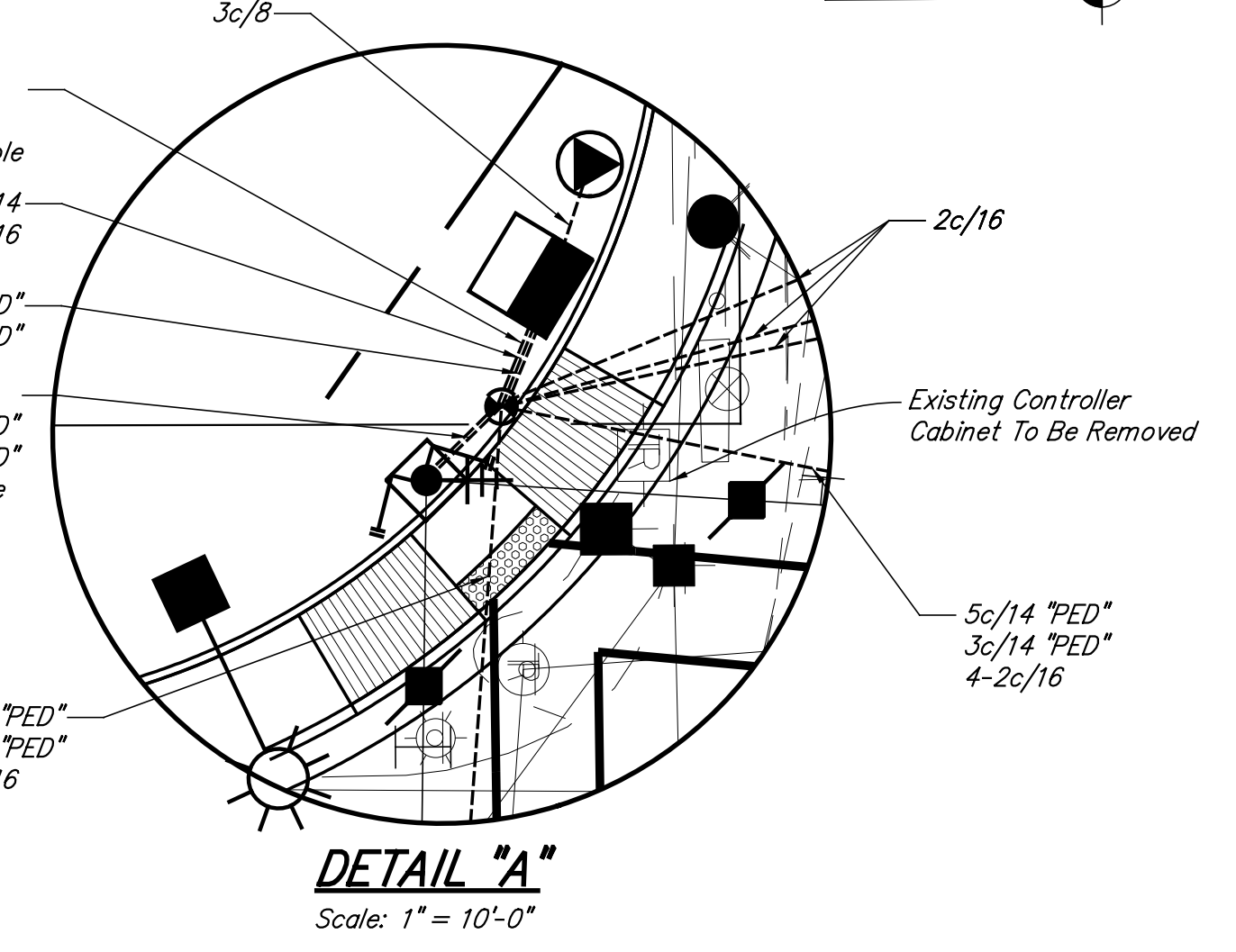
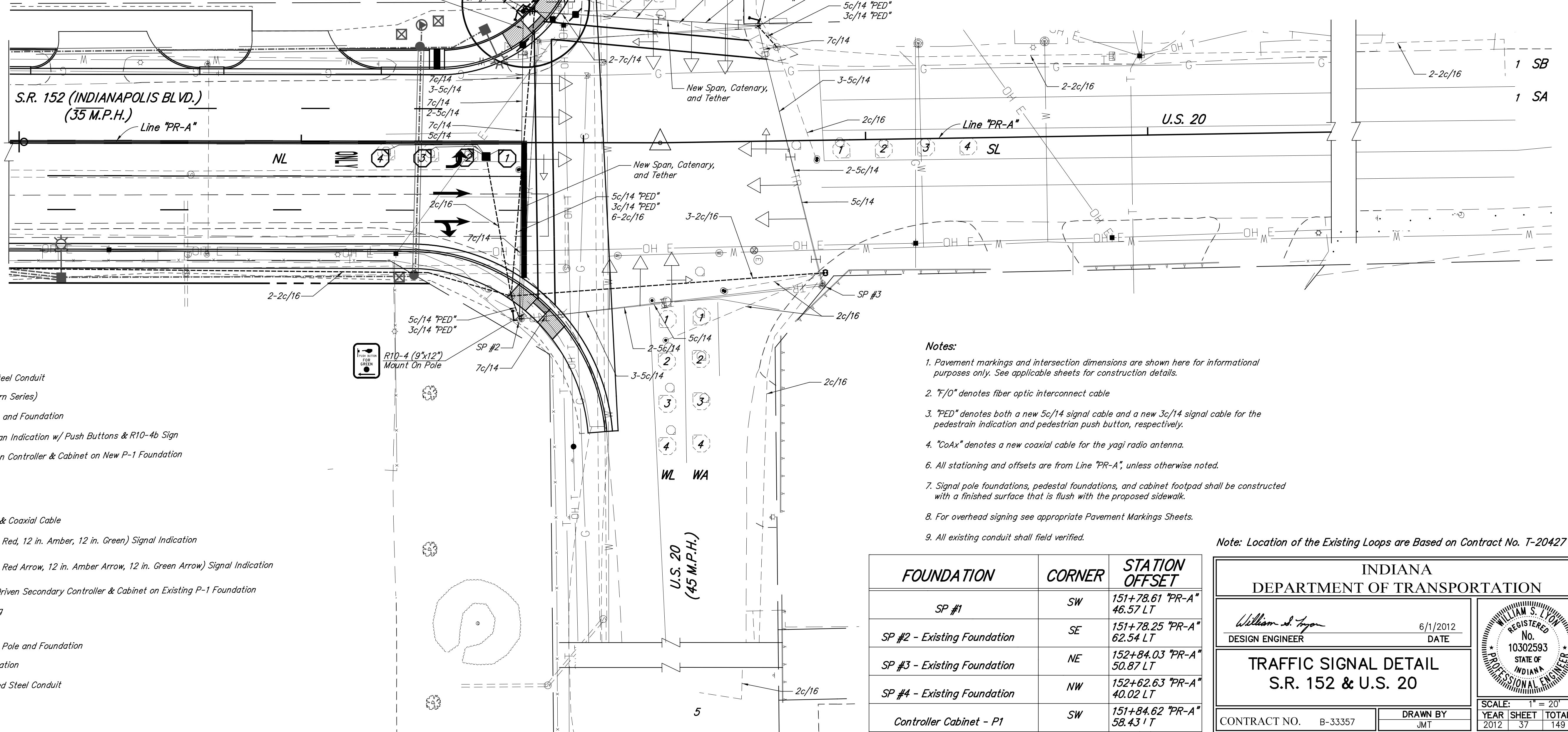
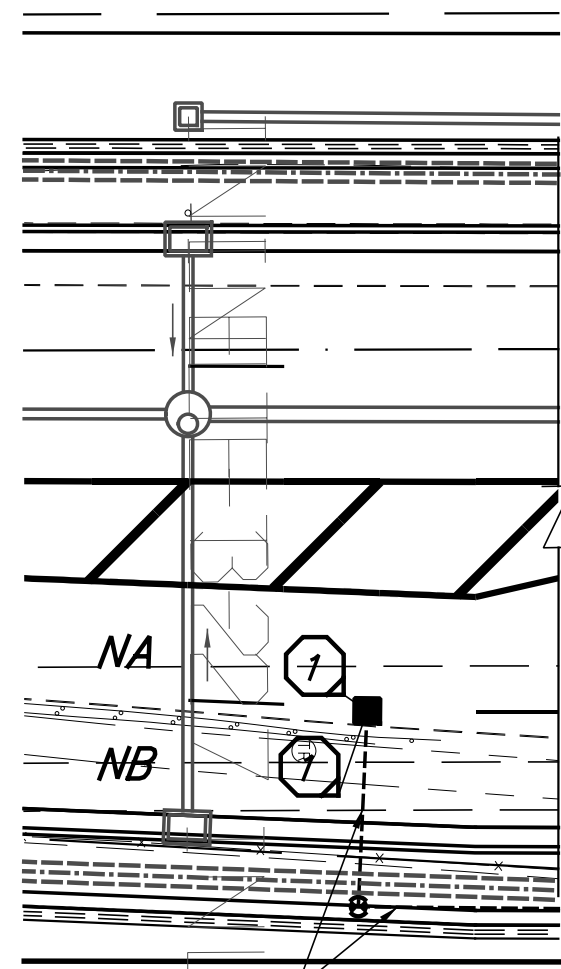
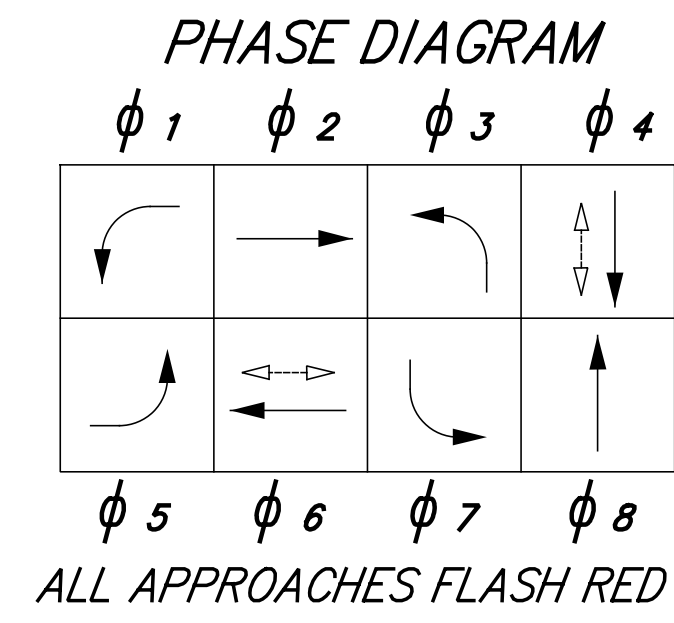
SCALE: 1" = 20'
YEAR SHEET TOTAL
2012 36 149

150

LOOP TAGGING TABLE

LANE	TAG NUMBER	
NL	NL5-1,2,3,4	*
NA	NA2-1	*
NB	NB2-1	*
SL	SL1-1,2,3,4	*
SA	SA6-1	*
SB	SB6-1	*
EL	EL7-1,2,3,4	*
EA	EA4-1,2,3,4	*
EA	EA4-5	*
EB	EB4-1,2,3,4	*
WL	WL3-1,2,3,4	*
WA	WA8-1,2,3,4	*
WA	WA8-5	*

* Count Capable Loops
Amplifier Required



LEGEND

- New Service Point
- New Detector Housing
- New 2-inch Galvanized Steel Conduit
- New Loop Detector (4 Turn Series)
- New 36' Steel Strain Pole and Foundation
- New Countdown Pedestrian Indication w/ Push Buttons & R10-4b Sign
- New 8-Phase Menu-Driven Controller & Cabinet on New P-1 Foundation
- New Signal Handhole
- New Disconnect Hanger
- New Yagi Radio Antenna & Coaxial Cable
- Existing 3 Section (12 in. Red, 12 in. Amber, 12 in. Green) Signal Indication
- Existing 3 Section (12 in. Red Arrow, 12 in. Amber Arrow, 12 in. Green Arrow) Signal Indication
- Existing 8-Phase Menu-Driven Secondary Controller & Cabinet on Existing P-1 Foundation
- Existing Detector Housing
- Existing Handhole
- Existing Signal Mast Arm Pole and Foundation
- Existing Pedestrian Indication
- Existing 2-inch Galvanized Steel Conduit
- Existing Loop Detector
- Existing Utility Pole
- Existing Disconnect Hanger

Notes:

1. Pavement markings and intersection dimensions are shown here for informational purposes only. See applicable sheets for construction details.
2. "F/O" denotes fiber optic interconnect cable
3. "PED" denotes both a new 5c/14 signal cable and a new 3c/14 signal cable for the pedestrian indication and pedestrian push button, respectively.
4. "CoAx" denotes a new coaxial cable for the yagi radio antenna.
6. All stationing and offsets are from Line "PR-A", unless otherwise noted.
7. Signal pole foundations, pedestal foundations, and cabinet footpad shall be constructed with a finished surface that is flush with the proposed sidewalk.
8. For overhead signing see appropriate Pavement Markings Sheets.
9. All existing conduit shall field verified.

Note: Location of the Existing Loops are Based on Contract No. T-20427

FOUNDATION	CORNER	STATION OFFSET
SP #1	SW	151+78.61 "PR-A" 46.57 LT
SP #2 - Existing Foundation	SE	151+78.25 "PR-A" 62.54 LT
SP #3 - Existing Foundation	NE	152+84.03 "PR-A" 50.87 LT
SP #4 - Existing Foundation	NW	152+62.63 "PR-A" 40.02 LT
Controller Cabinet - P1	SW	151+84.62 "PR-A" 58.43 LT

INDIANA
DEPARTMENT OF TRANSPORTATION

William S. Lyon
DESIGN ENGINEER

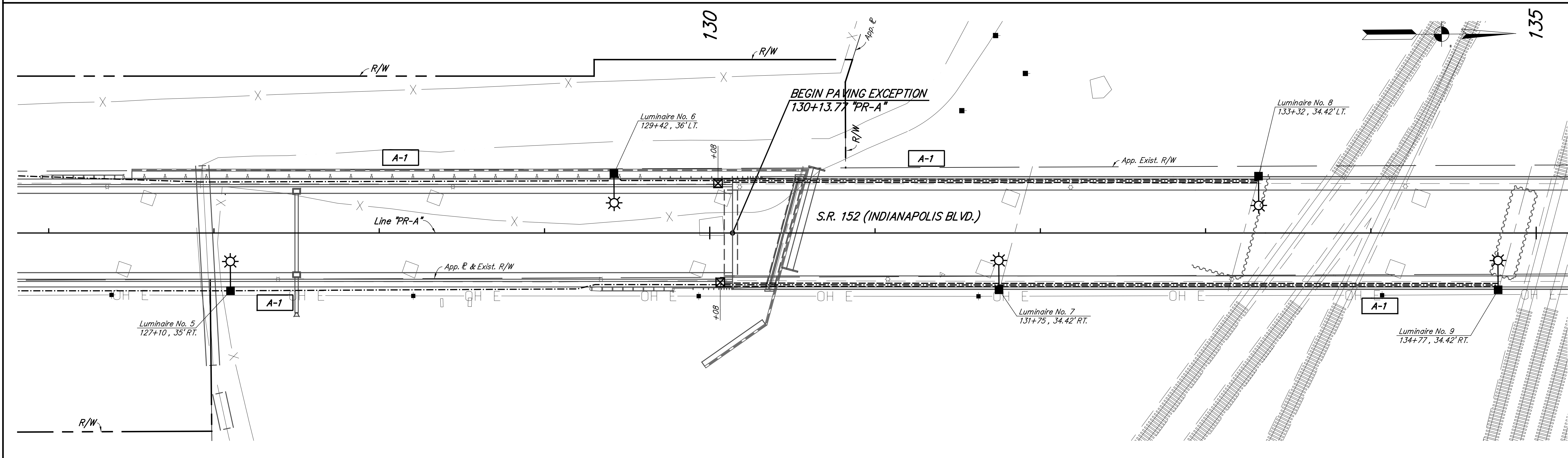
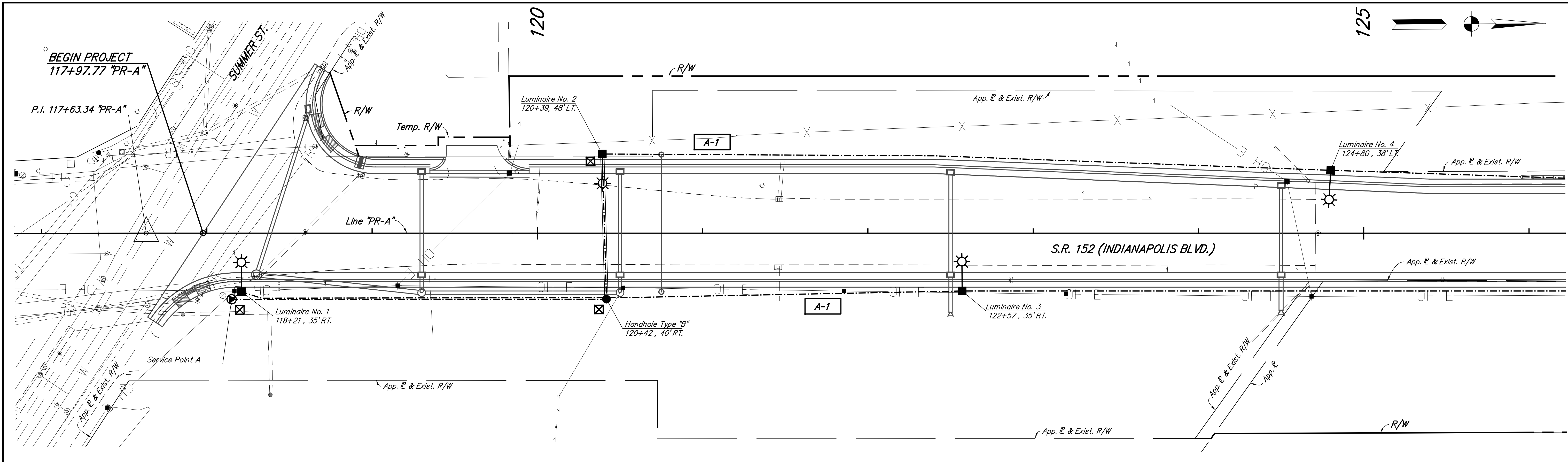
6/1/2012
DATE

TRAFFIC SIGNAL DETAIL
S.R. 152 & U.S. 20

SCALE: 1" = 20'

CONTRACT NO. B-33357	DRAWN BY JMT
DES. NO. 0014210	PROJECT NO. N881008

YEAR SHEET TOTAL
2012 37 149



LEGEND

	Proposed 400 W. H.P.S. Luminaire on New Pole, IES File Type M-III-S
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in Trench
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in 2.5 inch Schedule 40 PVC Conduit
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in 2.5 inch Schedule 80 PVC Conduit

	Proposed Service Point Type I, (240/480 Volts)
	Proposed Lighting Handhole
	Proposed Cable Duct Marker

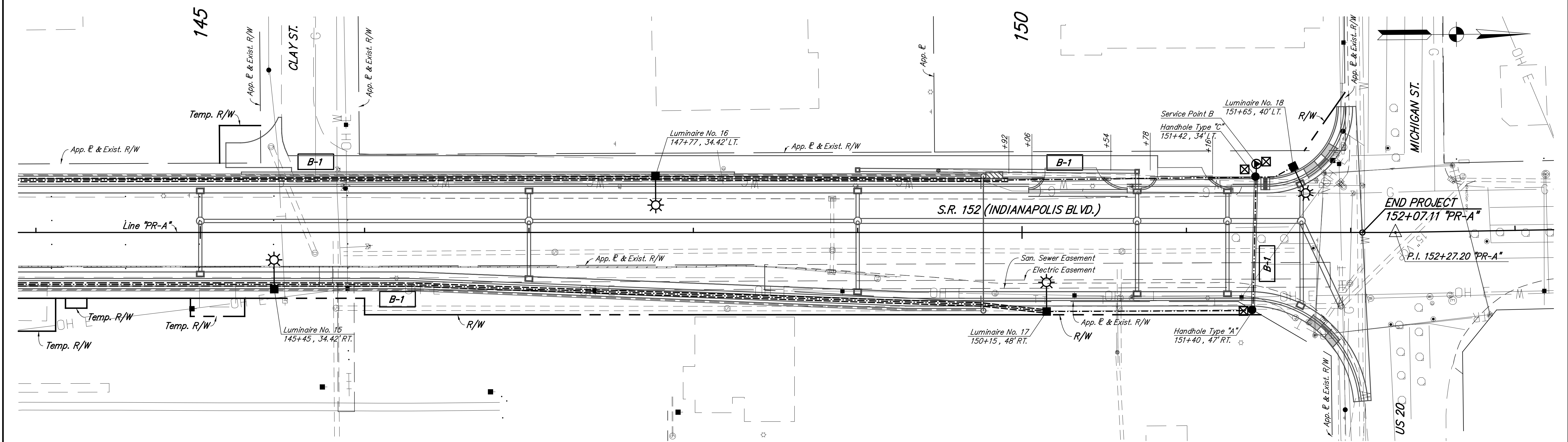
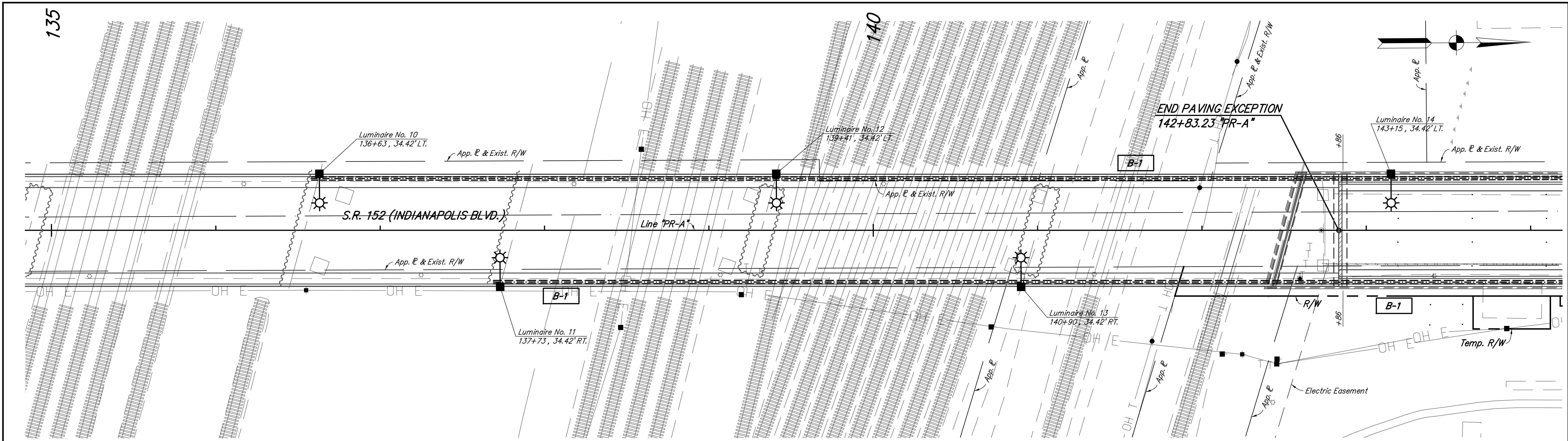
RECOMMENDED FOR APPROVAL: *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: ALT DRAWN: BNM
 CHECKED: WSL CHECKED: WSL

INDIANA
 DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS
 S.R. 152 (INDIANAPOLIS BLVD.)

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 38 of 149
CONTRACT B-33357	PROJECT NO. N881008



LEGEND

	Proposed 400 W.H.P.S. Luminaire on New Pole, IES File Type M-III-S
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in Trench
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in 2.5 inch Schedule 40 PVC Conduit
	Proposed 4 - 1/C No. 4 Cu. Conductors in Plastic Duct in 2.5 inch Schedule 80 PVC Conduit

	Proposed Service Point Type I, (240/480 Volts)
	Proposed Lighting Handhole
	Proposed Cable Duct Marker

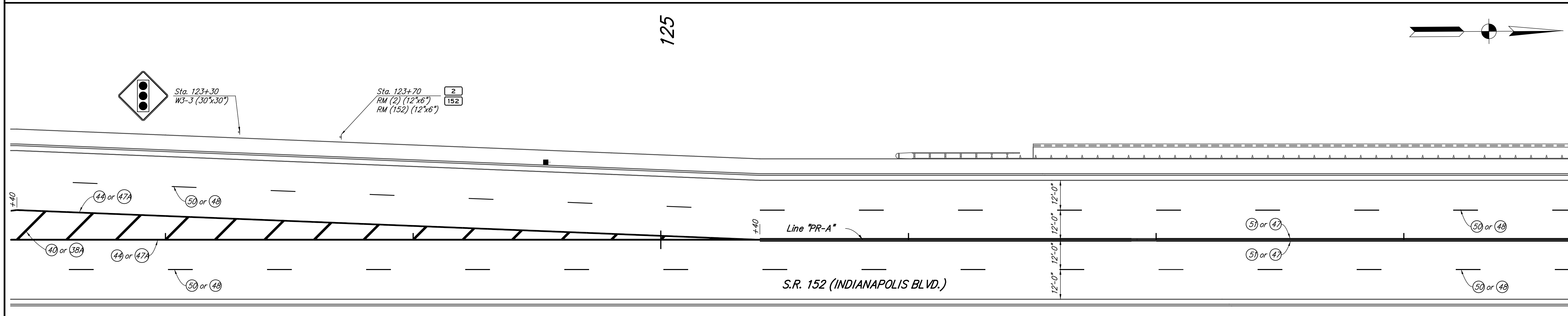
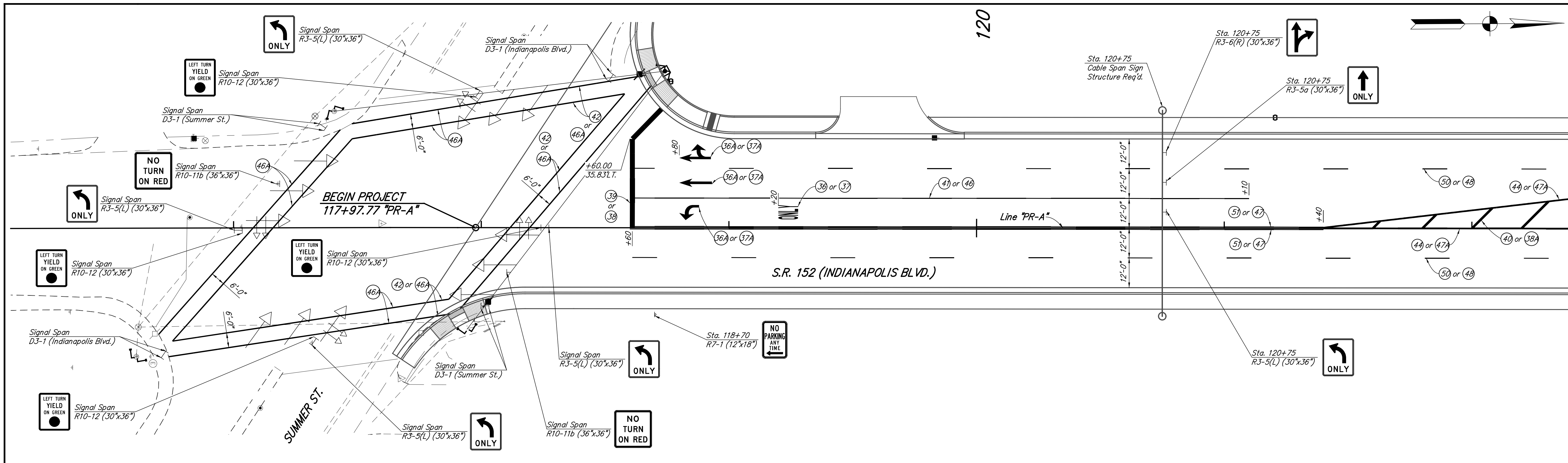
RECOMMENDED FOR APPROVAL *William S. Lopez* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: ALT DRAWN: BNM
 CHECKED: WSL CHECKED: WSL

INDIANA DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS
 S.R. 152 (INDIANAPOLIS BLVD.)

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 39 of 149
CONTRACT B-33357	PROJECT NO. N881008



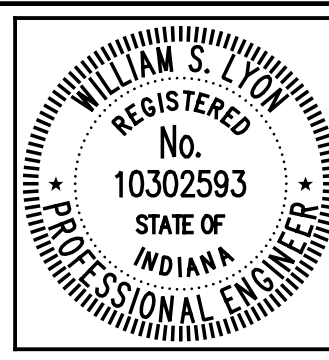
SPEED LIMIT 35
Sta. 122+90
R2-1 (35) (30'x36")

Sta. 123+80
RM (2) (12'x6")
RM (152) (12'x6")

Sta. 126+00
WB-13 (36'x36")
BRIDGE ICES BEFORE ROAD

LEGEND

- (36) Pavement Message Marking, Multi-Component, Only
- (36A) Pavement Message Marking, Multi-Component, Lane Indication Arrow
- (39) Transverse Marking, Multi-Component, Stop Line, 24 In.
- (37) Pavement Message Marking, Thermoplastic, Only
- (37A) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (38) Transverse Marking, Thermoplastic, Stop Line, 24 In.
- (38A) Transverse Marking, Thermoplastic, Solid, Yellow, Crosshatch, 12 In.
- (40) Transverse Marking, Multi-Component, Solid, Yellow, Crosshatch, 12 In.
- (41) Line, Multi-Component, Solid, White, 4 In.
- (42) Transverse Marking, Multi-Component, Crosswalk Line, 6 In.
- (44) Line, Multi-Component, Solid, Yellow, 8 In.
- (46) Line, Thermoplastic, Solid, White, 4 In.
- (46A) Transverse Marking, Thermoplastic, Crosswalk Line, 6 In.
- (47) Line, Thermoplastic, Solid, Yellow, 4 In.
- (47A) Line, Thermoplastic, Solid, Yellow, 8 In.
- (48) Line, Thermoplastic, Broken, White, 4 In.
- (50) Line, Multi-Component, Broken, White, 4 In.
- (51) Line, Multi-Component, Solid, Yellow, 4 In.

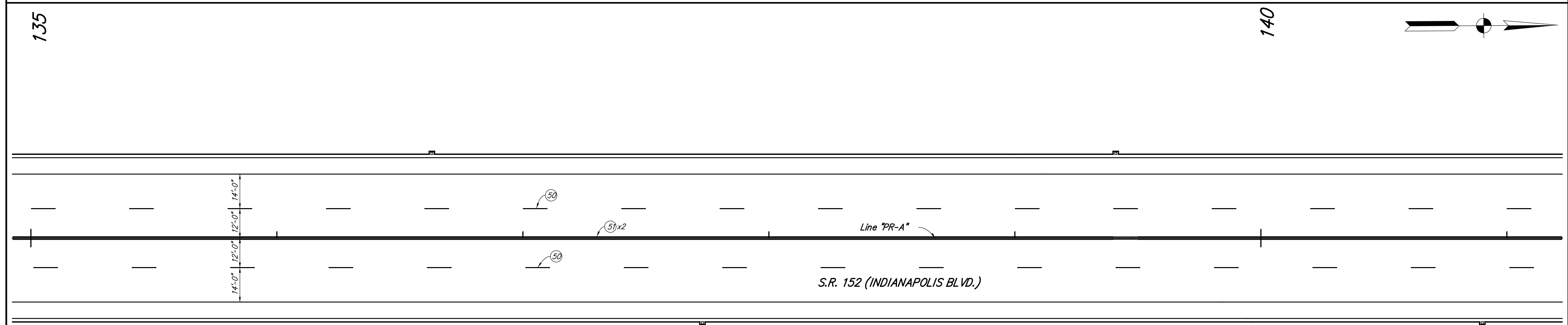
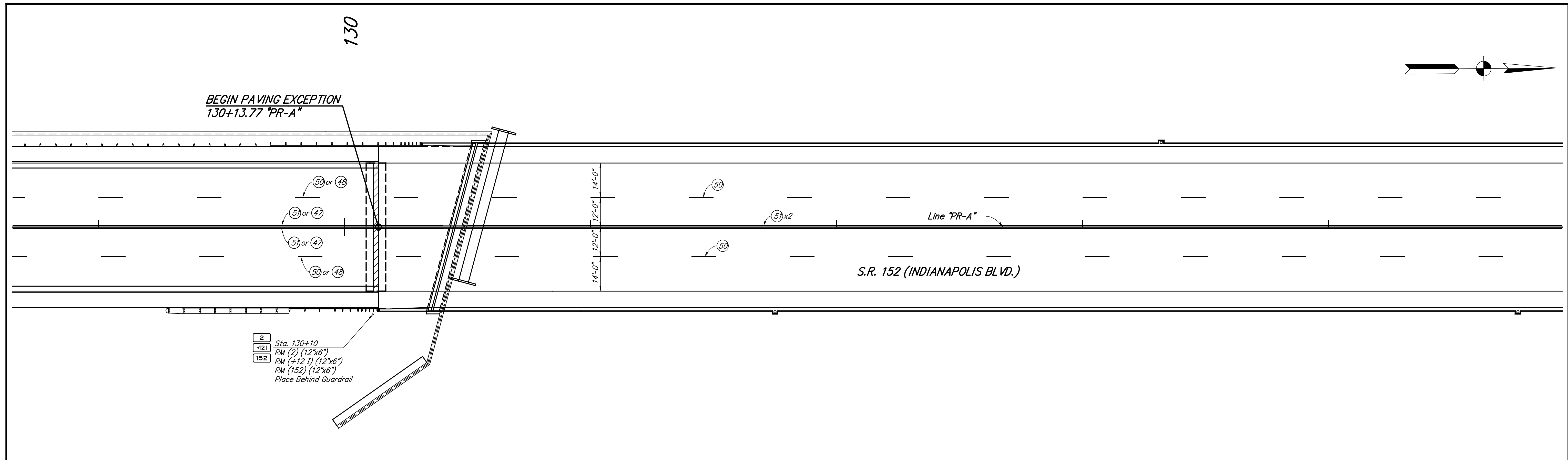


RECOMMENDED FOR APPROVAL	<i>William S. Lyon</i>	6/1/2012
DESIGNED:	NRM	DRAWN:
CHECKED:	DAD/WSL	CHECKED:
		DATE

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING DETAILS

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 41 of 149
CONTRACT B-33357	PROJECT NO. N881008



- LEGEND**
- (36) Pavement Message Marking, Multi-Component, Only
 - (40) Transverse Marking, Multi-Component, Solid, Yellow, Crosshatch, 12 In.
 - (42) Transverse Marking, Multi-Component, Crosswalk Line, 6 In.
 - (36A) Pavement Message Marking, Multi-Component, Lane Indication Arrow
 - (41) Line, Multi-Component, Solid, White, 4 In.
 - (44) Line, Multi-Component, Solid, Yellow, 8 In.
 - (39) Transverse Marking, Multi-Component, Stop Line, 24 In.

- (37) Pavement Message Marking, Thermoplastic, Only
- (47A) Line, Thermoplastic, Solid, Yellow, 8 In.
- (47) Line, Thermoplastic, Solid, White, 4 In.
- (37A) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- (48) Line, Thermoplastic, Broken, White, 4 In.
- (46A) Transverse Marking, Thermoplastic, Crosswalk Line, 6 In.
- (38) Transverse Marking, Thermoplastic, Stop Line, 24 In.
- (50) Line, Multi-Component, Broken, White, 4 In.
- (46) Line, Thermoplastic, Solid, White, 4 In.
- (47) Line, Thermoplastic, Solid, Yellow, 4 In.
- (38A) Transverse Marking, Thermoplastic, Solid, Yellow, Crosshatch, 12 In.
- (51) Line, Multi-Component, Solid, Yellow, 4 In.

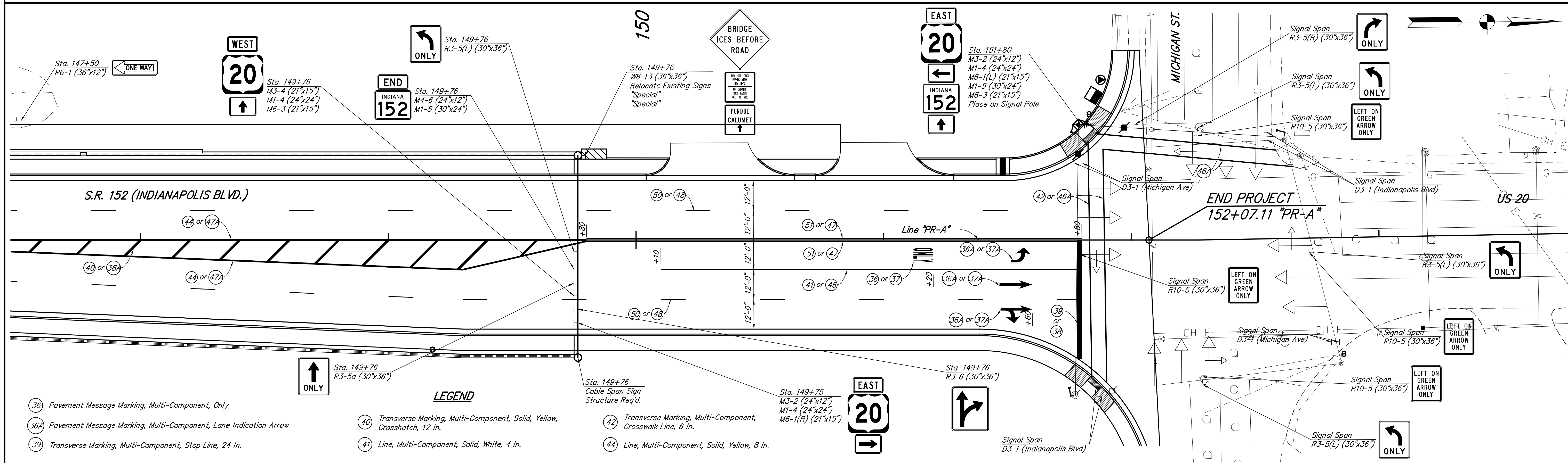
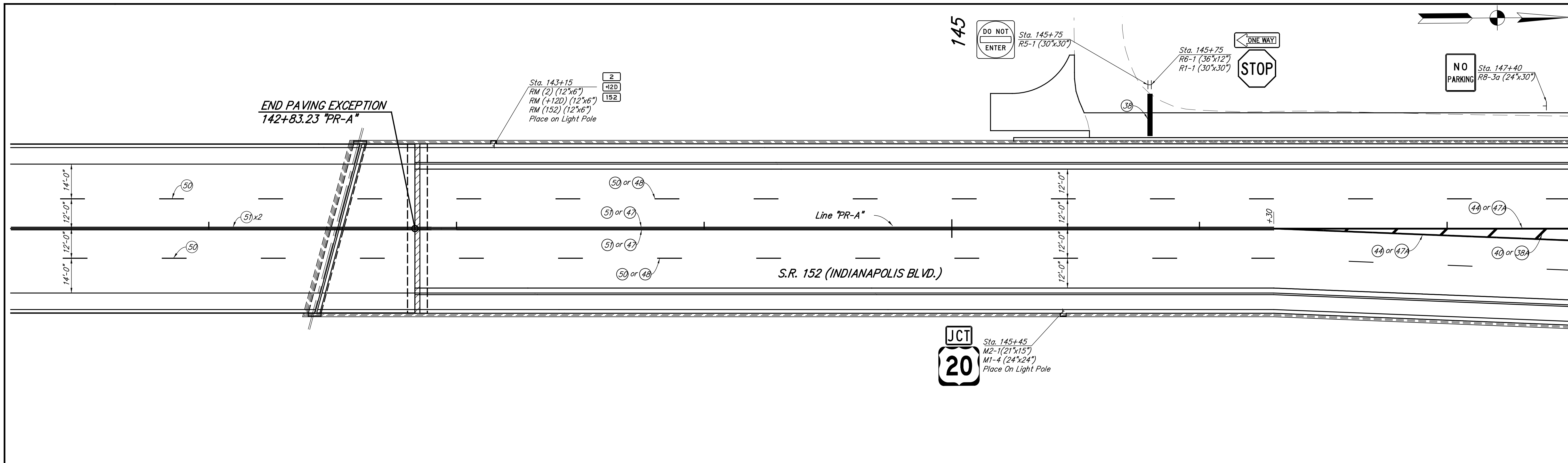
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING DETAILS

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 42 of 149
CONTRACT B-33357	PROJECT NO. N881008



- LEGEND**
- (36) Pavement Message Marking, Multi-Component, Only
 - (36A) Pavement Message Marking, Multi-Component, Lane Indication Arrow
 - (39) Transverse Marking, Multi-Component, Stop Line, 24 In.
 - (40) Transverse Marking, Multi-Component, Solid, Yellow, Crosshatch, 12 In.
 - (41) Line, Multi-Component, Solid, White, 4 In.
 - (42) Transverse Marking, Multi-Component, Crosswalk Line, 6 In.
 - (44) Line, Multi-Component, Solid, Yellow, 8 In.
 - (37) Pavement Message Marking, Thermoplastic, Only
 - (37A) Pavement Message Marking, Thermoplastic, Lane Indication Arrow
 - (38) Transverse Marking, Thermoplastic, Stop Line, 24 In.
 - (38A) Transverse Marking, Thermoplastic, Solid, Yellow, Crosshatch, 12 In.
 - (46) Line, Thermoplastic, Solid, White, 4 In.
 - (46A) Transverse Marking, Thermoplastic, Crosswalk Line, 6 In.
 - (47) Line, Thermoplastic, Solid, Yellow, 4 In.
 - (47A) Line, Thermoplastic, Solid, Yellow, 8 In.
 - (48) Line, Thermoplastic, Broken, White, 4 In.
 - (50) Line, Multi-Component, Broken, White, 4 In.
 - (51) Line, Multi-Component, Solid, Yellow, 4 In.

RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE

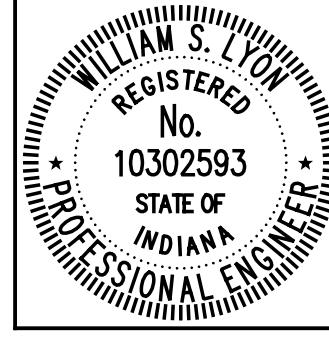
DESIGNED: NRM DRAWN: NRM
 CHECKED: DAD/WSL CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING DETAILS

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 43 of 149
CONTRACT B-33357	PROJECT NO. N881008

SHEET SIGN & POST SUMMARY																			
SIGN										POST						COMMENTS			
PLAN SHEET NO. / LINE	SIGN LOCATION	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (SFT)			MOUNTED ON PANEL SIGN AREA (SFT)	U CHANNEL				SQUARE							
				0.080"	0.100"	0.125"		0.080"	POST LENGTH		POST LENGTH		2" x 2" - 12 GA. (TYPE 2)				2 1/4" x 2 1/4" - 12 GA. (TYPE 1)		
									1	2	TYPE "A"	TYPE "B"	REINFORCED ANCHOR				REINFORCED ANCHOR		
									FT.	FT.	FT.	FT.	POST LENGTH (FT.)			POST LENGTH (FT.)			
								1	2	TOTAL	1	2	TOTAL						
Line "PR-A"	118+70Rt.	R7-1	12 x 18	1.50										9.00	9.00				
	122+90Rt.	R2-1(35)	30 x 36	7.50										10.50	10.50				
	123+30Lt.	W3-3	30 x 30	6.25										10.00	10.00				
	123+70Lt.	RM(2)	12 x 6	0.50					8.50										
	123+80Rt.	RM(152)	12 x 6	0.50															
		RM(2)	12 x 6	0.50					8.50										
		RM(152)	12 x 6	0.50															
	126+00Rt.	W8-13	36 x 36		9.00									11.00	11.00				
	130+10Rt.	RM(2)	12 x 6	0.50					9.00							Place Behind Guardrail			
		RM(+121)	12 x 6	0.50															
		RM(152)	12 x 6	0.50															
	143+15Lt.	RM(2)	12 x 6	0.50												Place On Light Pole			
		RM(+120)	12 x 6	0.50															
		RM(152)	12 x 6	0.50															
	145+45Rt.	M2-1	21 x 15	2.19												Place On Light Pole			
		M1-4	24 x 24	4.00															
	145+75Lt.	R5-1	30 x 30	6.25										11.00	11.00				
	(Reverse Side)	R6-1	36 x 12		3.00														
	(Reverse Side)	R1-1	30 x 30	6.25															
	147+40Lt.	R8-3a	24 x 30	5.00										10.00	10.00				
	147+50Lt.	R6-1	36 x 12		3.00									8.50	8.50				
	149+76Lt.	W8-13	36 x 36		9.00											Place on Cable Span Pole			
		"Special"														Relocate Existing Sign On Cable Span Pole			
		"Special"														Relocate Existing Sign On Cable Span Pole			
	151+80Lt.	M3-2	24 x 12	2.00												Place On Signal Pole			
		M1-4	24 x 24	4.00												Place On Signal Pole			
		M6-1(L)	21 x 15	2.19												Place On Signal Pole			
		M1-5	30 x 24	5.00												Place On Signal Pole			
		M6-3	21 x 15	2.19												Place On Signal Pole			
Signal Span	Summer St & S.R.152	D3-1(Ind. Blvd)	78 x 18			9.75													
	Summer St & S.R.152	D3-1(Ind. Blvd)	78 x 18			9.75													
	Summer St & S.R.152	R10-12	30 x 36	7.50															
	Summer St & S.R.152	R3-5(L)	30 x 36	7.50															
	Summer St & S.R.152	R10-11b	36 x 36		9.00														
	Summer St & S.R.152	D3-1(Summer St)	54 x 18		6.75														
	Summer St & S.R.152	D3-1(Summer St)	54 x 18		6.75														
	Summer St & S.R.152	R3-5(L)	30 x 36	7.50															
	Summer St & S.R.152	D3-1(Ind. Blvd)	78 x 18		9.75														
	Summer St & S.R.152	D3-1(Ind. Blvd)	78 x 18		9.75														
	Summer St & S.R.152	R10-12	30 x 36	7.50															
	Summer St & S.R.152	R3-5(L)	30 x 36	7.50															
	Summer St & S.R.152	D3-1(Summer St)	54 x 18		6.75														
	Summer St & S.R.152	D3-1(Summer St)	54 x 18		6.75														
	Summer St & S.R.152	R3-5(L)	30 x 36	7.50															
	Summer St & S.R.152	R10-11b	36 x 36		9.00														
	Summer St & S.R.152	R10-12	30 x 36	7.50															
	Summer St & S.R.152	R10-12	30 x 36	7.50															
Line "PR-A"	Summer St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Summer St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Summer St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Summer St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Michigan St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Michigan St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
	Michigan St & S.R.152	R10-4	9 x 12	0.75												Place On Signal Pole			
Signal Span	Michigan St & S.R.152	R10-5	30 x 36	7.50															
	Michigan St & S.R.152	D3-1(Mich. Ave)	57 x 18		7.13														
	Michigan St & S.R.152	D3-1(Mich. Ave)	57 x 18		7.13														
	Michigan St & S.R.152	R3-5(R)	30 x 36	7.50															
	Michigan St & S.R.152	R3-5(L)	30 x 36	7.50															
	TOTALS			148.00	84.00	39.00			26.00					70.00					



RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
 CHECKED: DAD/WSL CHECKED: DAD/WSL

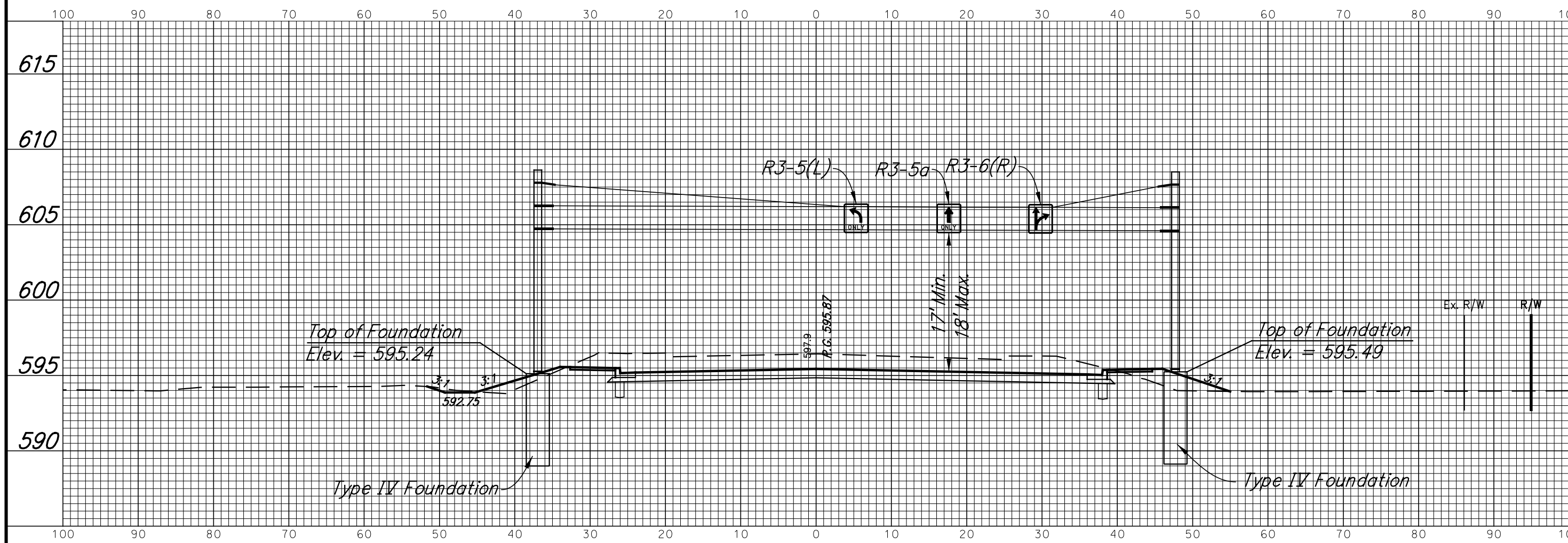
INDIANA DEPARTMENT OF TRANSPORTATION

SHEET SIGN & POST SUMMARY

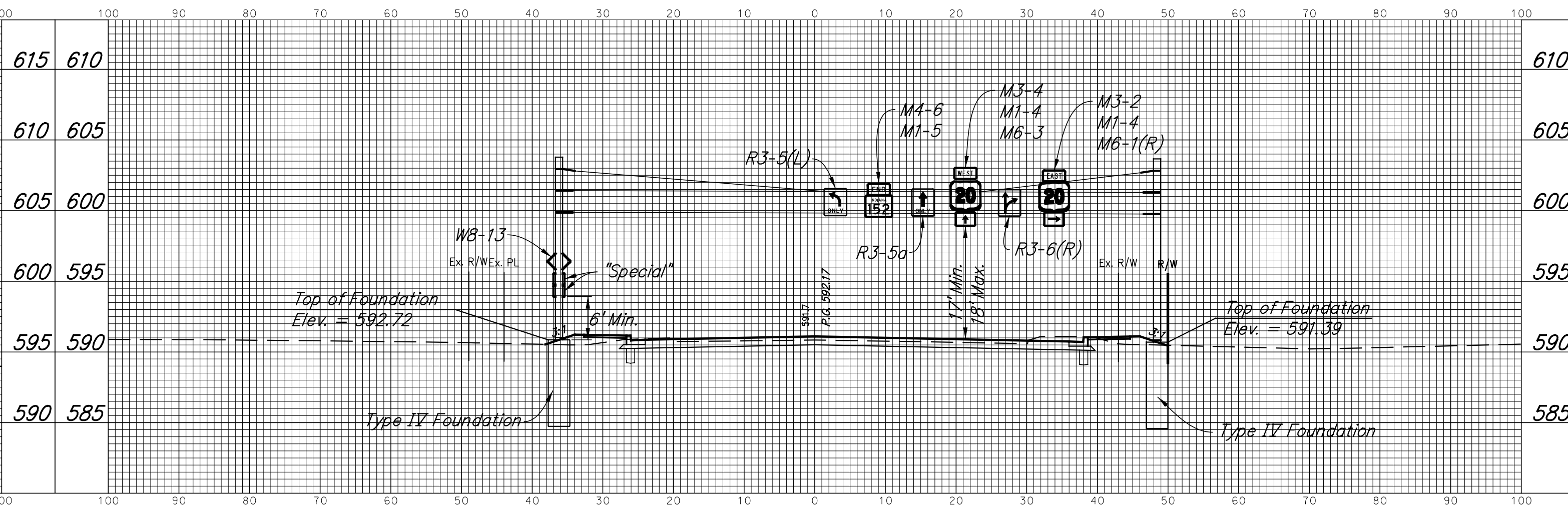
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N/A	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	44 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

OVERHEAD SIGN SUMMARY TABLE

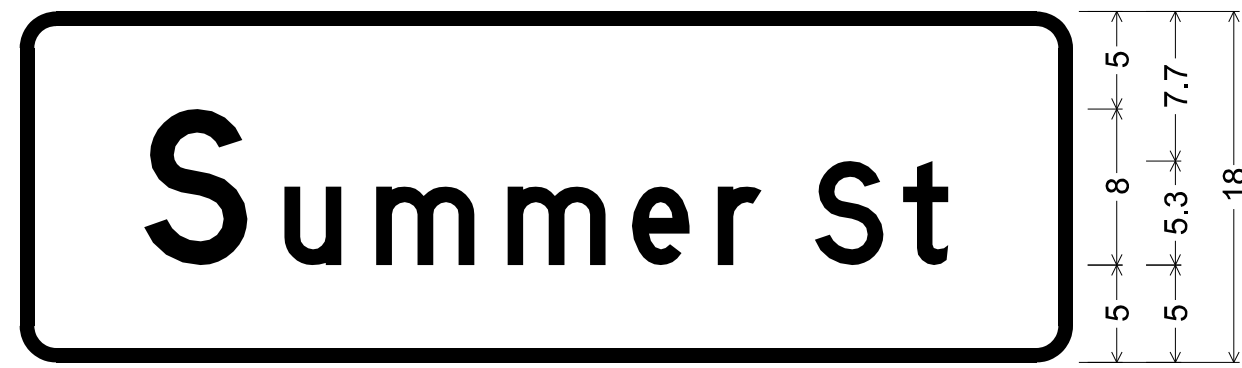
PLAN SHEET NO. / LINE	LOCATION (STA.)	SIGN CODE	SIGN SIZE (in x in)	STRUCTURE TYPE	FOUNDATION TYPE			WALKWAY & HANDRAIL (ft)	LUMINAIRES (EA)	COMMENTS
					LEFT	MEDIAN	RIGHT			
Line "PR-A"	120+75	R3-6(R)	30 x 36	Cable Span Sign Structure	IV		IV			For Sign Quantities, See Sign & Post Summary
		R3-5a	30 x 36						For Sign Quantities, See Sign & Post Summary	
		R3-5(L)	30 x 36						For Sign Quantities, See Sign & Post Summary	
	149+76	R3-5(L)	30 x 36	Cable Span Sign Structure	IV		IV			For Sign Quantities, See Sign & Post Summary
		M4-6	24 x 12						For Sign Quantities, See Sign & Post Summary	
		M1-5	30 x 24						For Sign Quantities, See Sign & Post Summary	
		R3-5a	30 x 36						For Sign Quantities, See Sign & Post Summary	
		M3-4	21 x 15						For Sign Quantities, See Sign & Post Summary	
		M1-4(20)	24 x 24						For Sign Quantities, See Sign & Post Summary	
		M6-3	21 x 15						For Sign Quantities, See Sign & Post Summary	
		R3-6	30 x 36						For Sign Quantities, See Sign & Post Summary	
		M3-2	24 x 12						For Sign Quantities, See Sign & Post Summary	
		M1-4(20)	24 x 24						For Sign Quantities, See Sign & Post Summary	
		M6-1(R)	21 x 15						For Sign Quantities, See Sign & Post Summary	



Cable Span Sign Structure
120+75.00 "PR-A"
(Looking South)

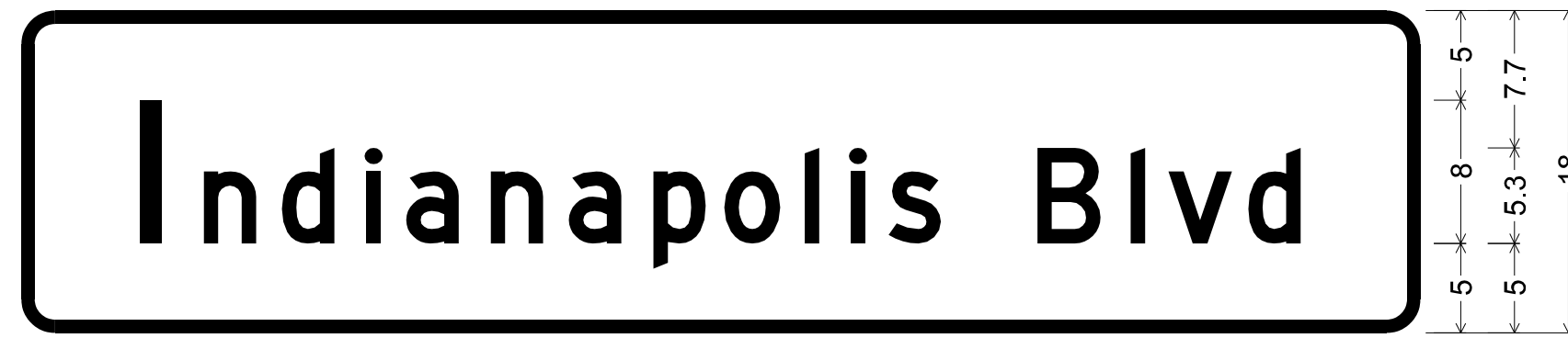


Cable Span Sign Structure
149+76.00 "PR-A"
(Looking North)



D3-1; 1.9" Radius, 0.8" Border, White on Green;
[Summer St] D;
Table of widths and spaces.

S	u	m	m	e	r	S	t									
6.4	5.4	1.8	2.9	1.8	5.0	1.7	5.0	1.4	3.0	1.4	2.2	2.8	3.5	1.0	2.3	6.4



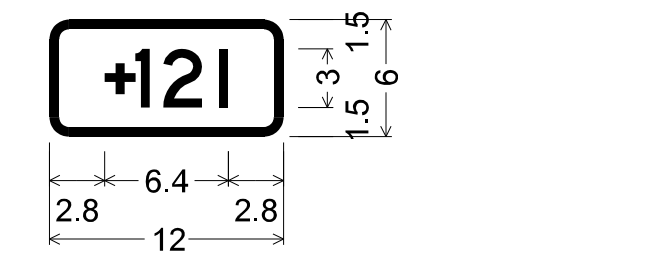
D3-1; 1.9" Radius, 0.8" Border, White on Green;
[Indianapolis Blvd] D;
Table of widths and spaces.

I	n	d	i	a	n	a	p	o	l	i	s												
6.6	1.3	2.3	2.9	1.4	3.0	1.7	0.9	1.4	2.9	1.8	2.9	1.4	3.0	1.7	3.0	1.0	3.1	1.4	0.8	1.7	0.9	1.2	3.0
B	I	v	d																				
5.3	3.6	1.6	0.9	1.3	3.5	0.9	3.0	6.6															



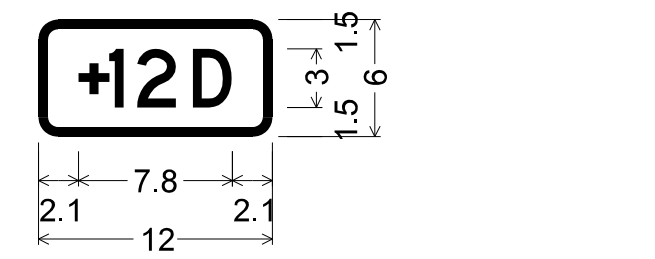
D3-1; 1.9" Radius, 0.8" Border, White on Green;
[Michigan St] D;
Table of widths and spaces.

M	i	c	h	i	g	a	n								
5.4	6.2	2.3	0.8	1.4	3.0	1.4	2.9	1.8	0.8	1.4	3.0	1.4	2.9	1.8	2.9
S	t														
5.4	3.6	0.9	2.3	5.4											



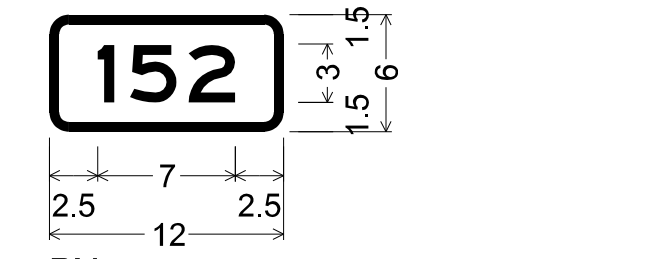
RM;
1.0" Radius, 0.5" Border, White on Blue;
[+12I] D;
Table of widths and spaces.

+	1	2	I					
2.8	1.6	0.0	0.7	0.7	2.1	0.8	0.5	2.8



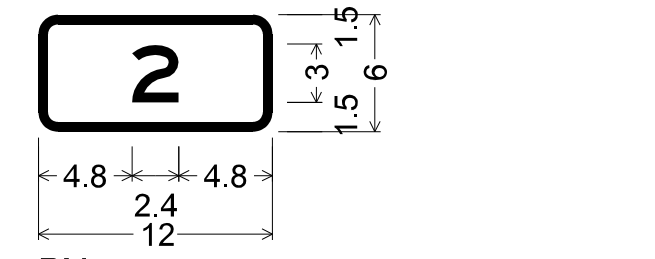
RM;
1.0" Radius, 0.5" Border, White on Blue;
[+12D] D;
Table of widths and spaces.

+	1	2	D					
2.1	1.5	0.0	0.8	0.7	2.0	0.8	2.0	2.1



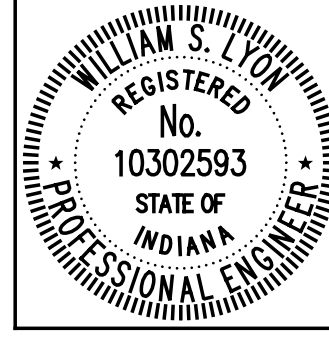
RM;
1.0" Radius, 0.5" Border, White on Blue;
[152] E;
Table of widths and spaces.

1	5	2				
2.5	0.9	0.7	2.4	0.6	2.4	2.5



RM;
1.0" Radius, 0.5" Border, White on Blue;
[2] E;
Table of widths and spaces.

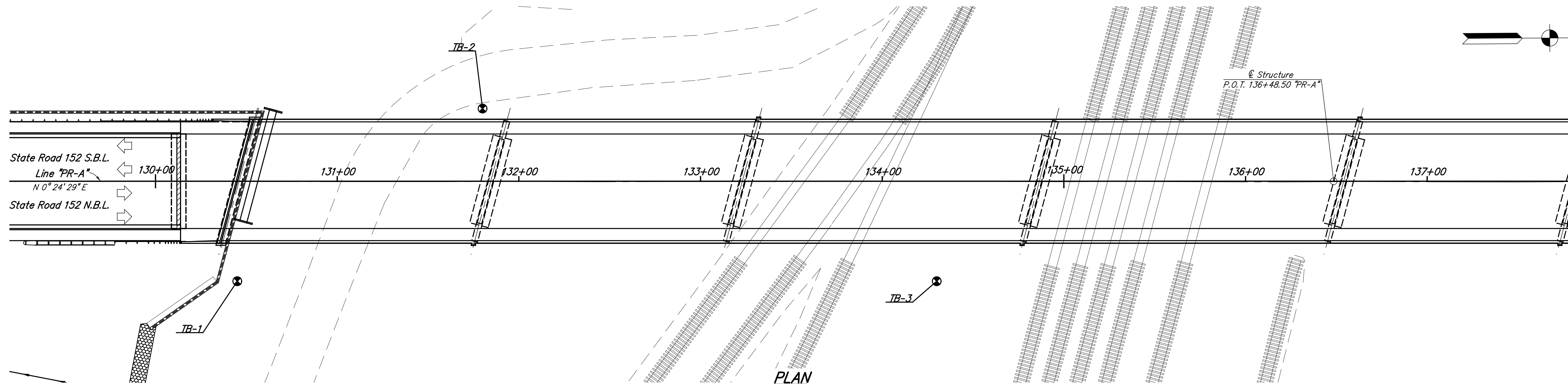
2		
4.8	2.4	4.8



RECOMMENDED FOR APPROVAL: *William S. Lyon*, 6/1/2012, DESIGN ENGINEER, DATE
DESIGNED: NRM, DRAWN: NRM
CHECKED: DAD/WSL, CHECKED: DAD/WSL

INDIANA DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING AND SIGNING DETAILS

HORIZONTAL SCALE: N/A	BRIDGE FILE: 152-45-02730
VERTICAL SCALE: N/A	DESIGNATION NO.: 0014210
SURVEY BOOK: B-33357	SHEETS: 46 of 149
CONTRACT: B-33357	PROJECT NO.: N881008

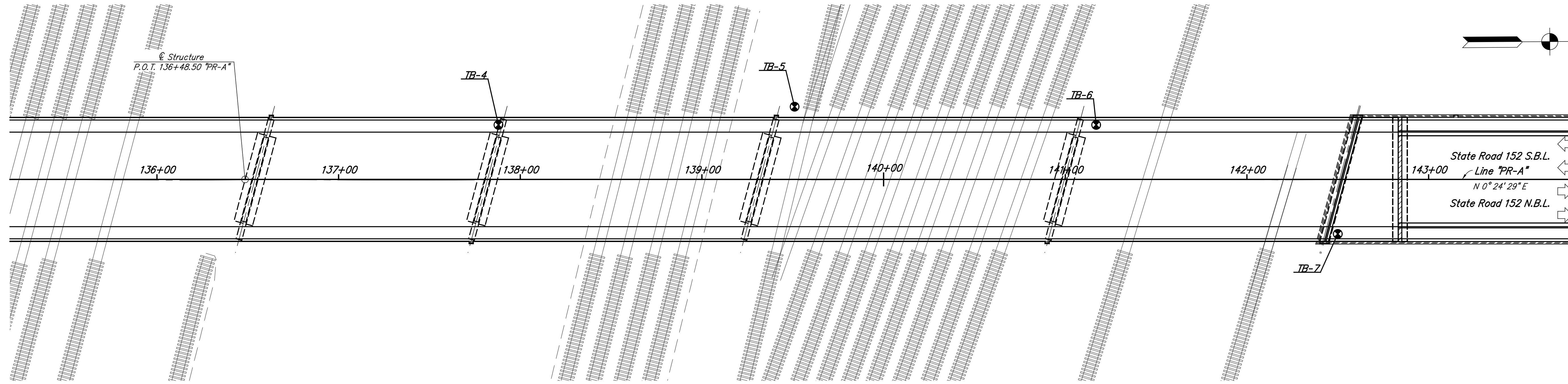


PLAN

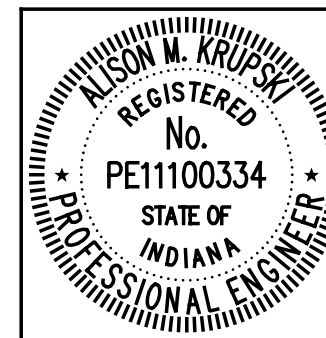
PILE LOADING FOR GEOTECHNICAL TESTING										
Bent	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10
Pile Size, Type & Grade	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50	HP 12x74, GR 50
Factored Design Load Q_u (Kips) *	347	343	371	350	378	354	319	315	305	305
Factored Design Soil Resistance R_u (Kips) *	347	343	371	350	378	354	319	315	305	305
Resistance Factor ϕ	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Downdrag Load DD (Kips)	-	-	-	-	-	-	-	-	-	-
Nominal Soil Resistance R_s (Kips)	496	490	530	500	540	506	456	450	436	436
Downdrag Friction R_{df} (Kips)	-	-	-	-	-	-	-	-	-	-
Scour Zone Friction R_{sdf} (Kips)	-	-	-	-	-	-	-	-	-	-
Nominal Driving Resistance R_{nd} (Kips)	496	490	530	500	540	506	456	450	436	436

Testing By Dynamic Pile Load Test, Standard Specifications 701.05 (b).

NOTES: * Including Geotechnical Losses.
 PDA Test Is Required At A Minimum Of 1 End Bent And Each Alternating Pier (5 Total).
 The Restrike Test Shall Be Performed No Sooner Than 7 Days After Initial Driving.



PLAN



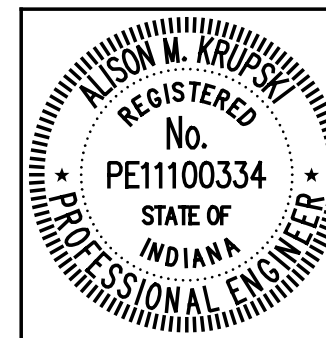
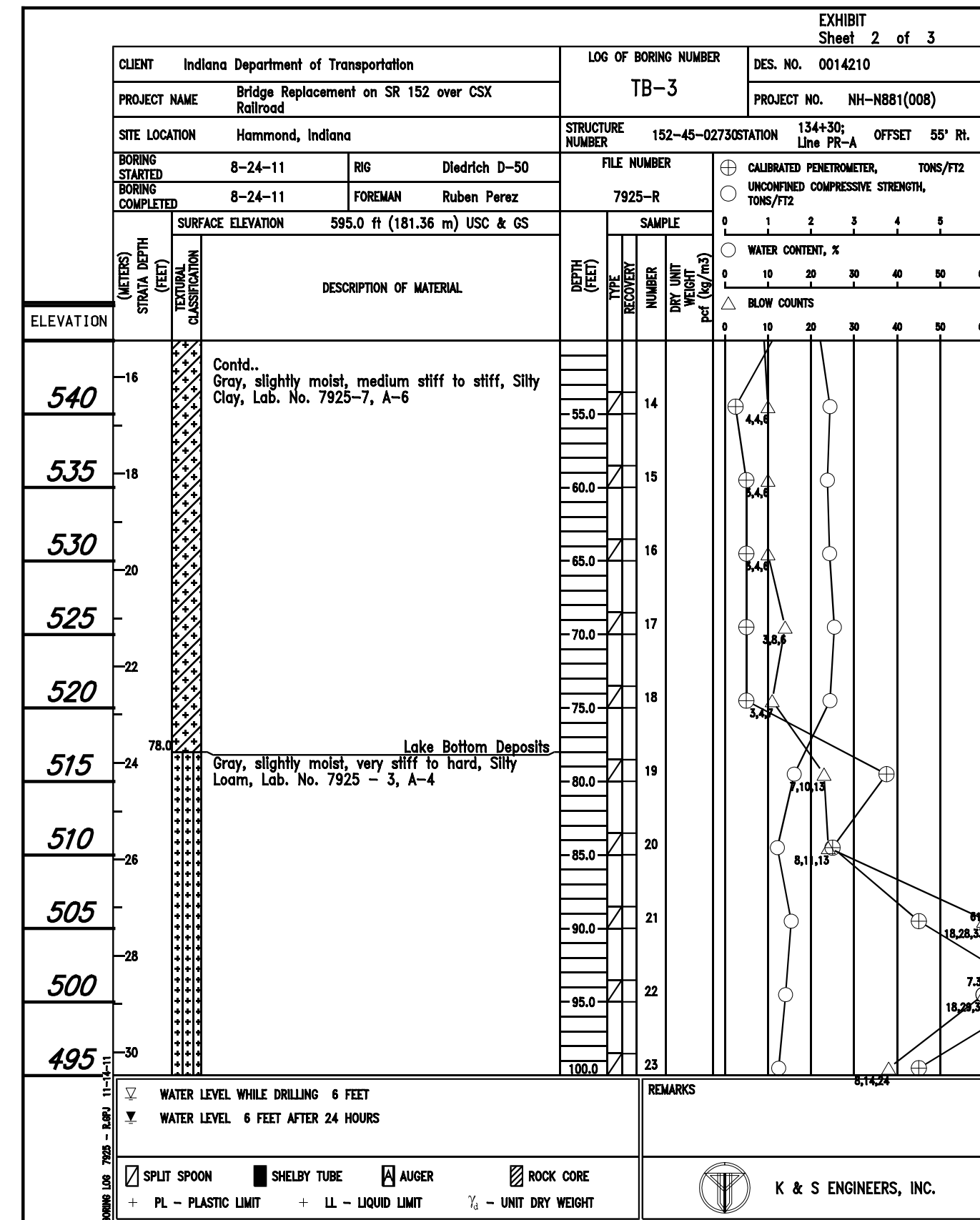
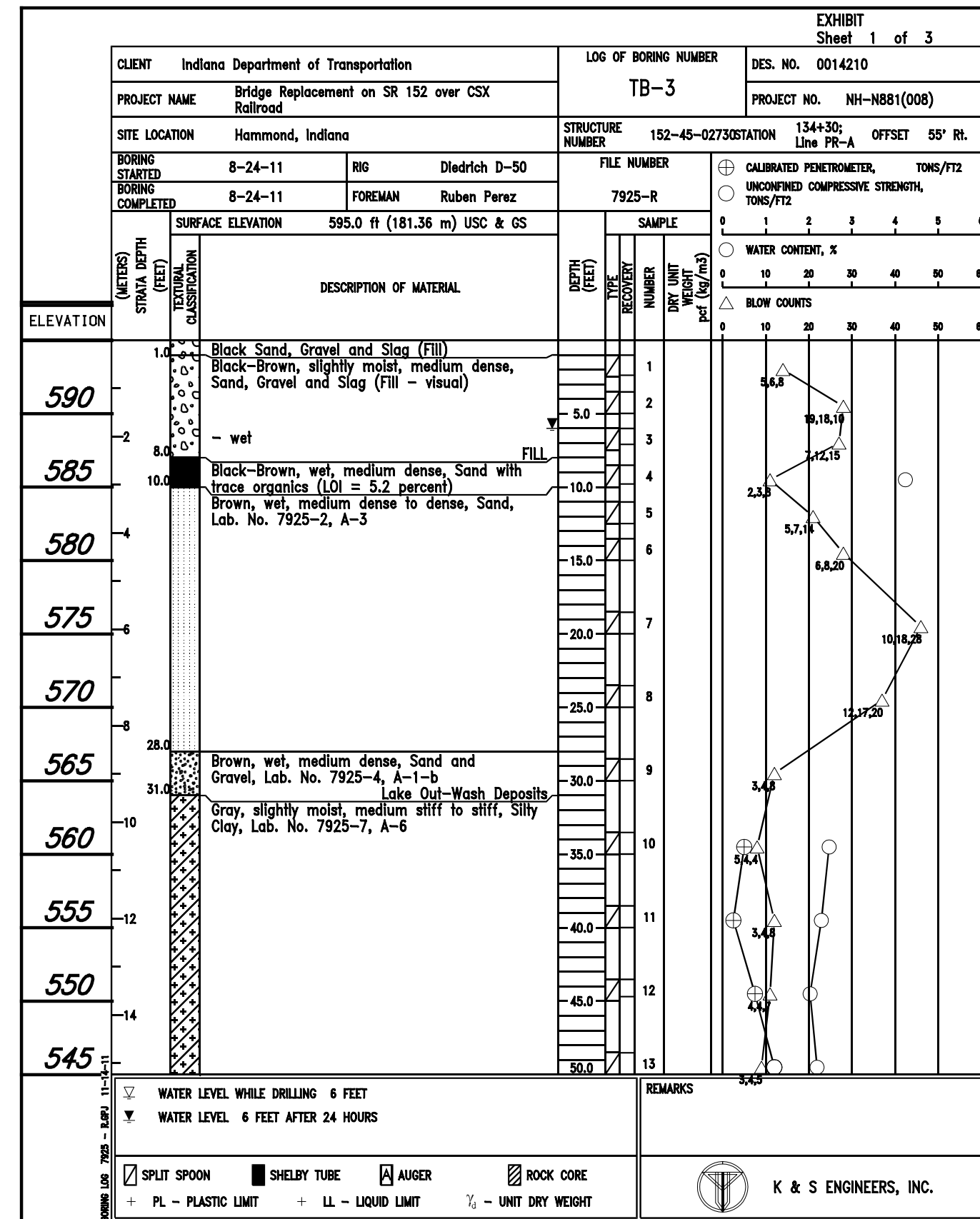
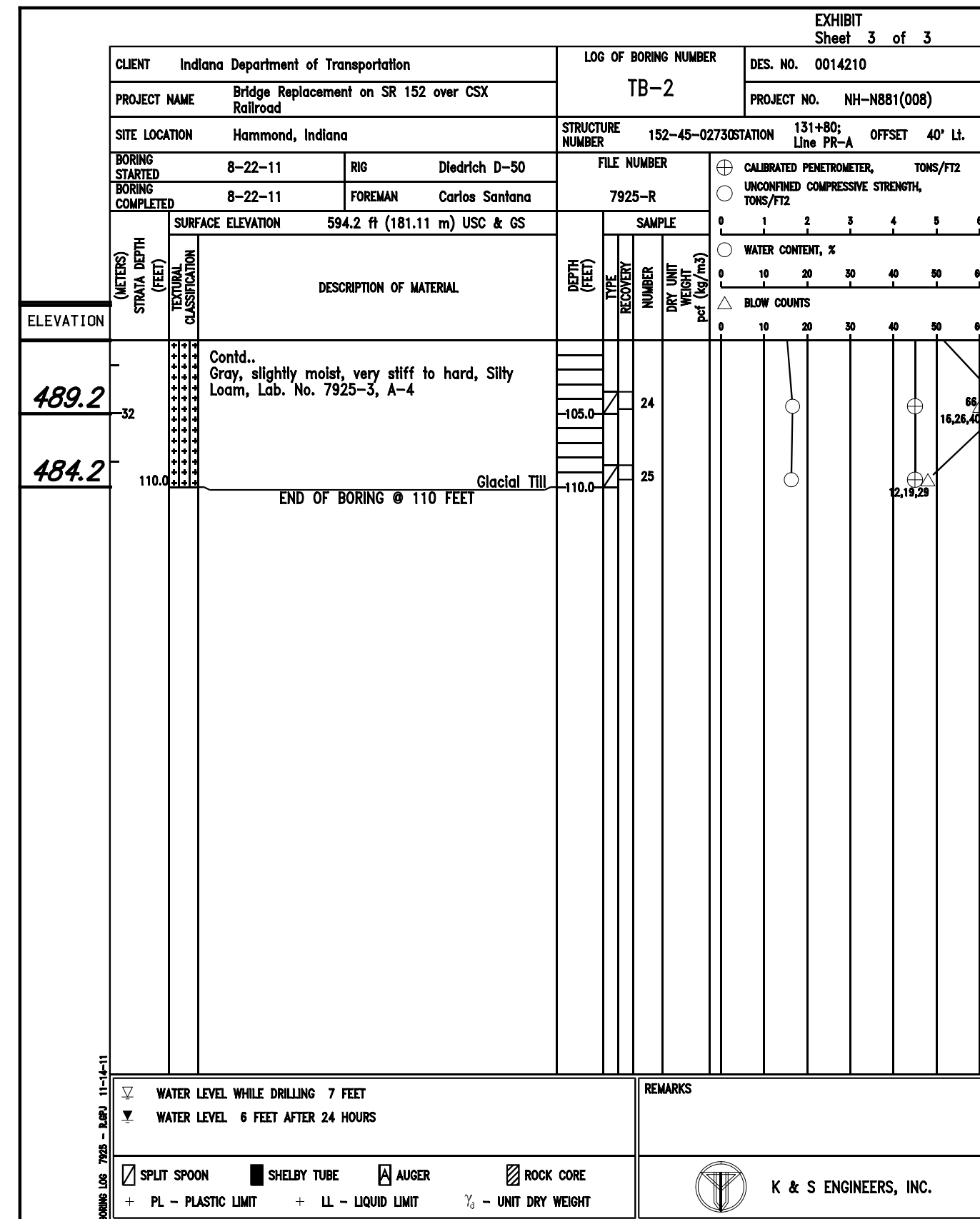
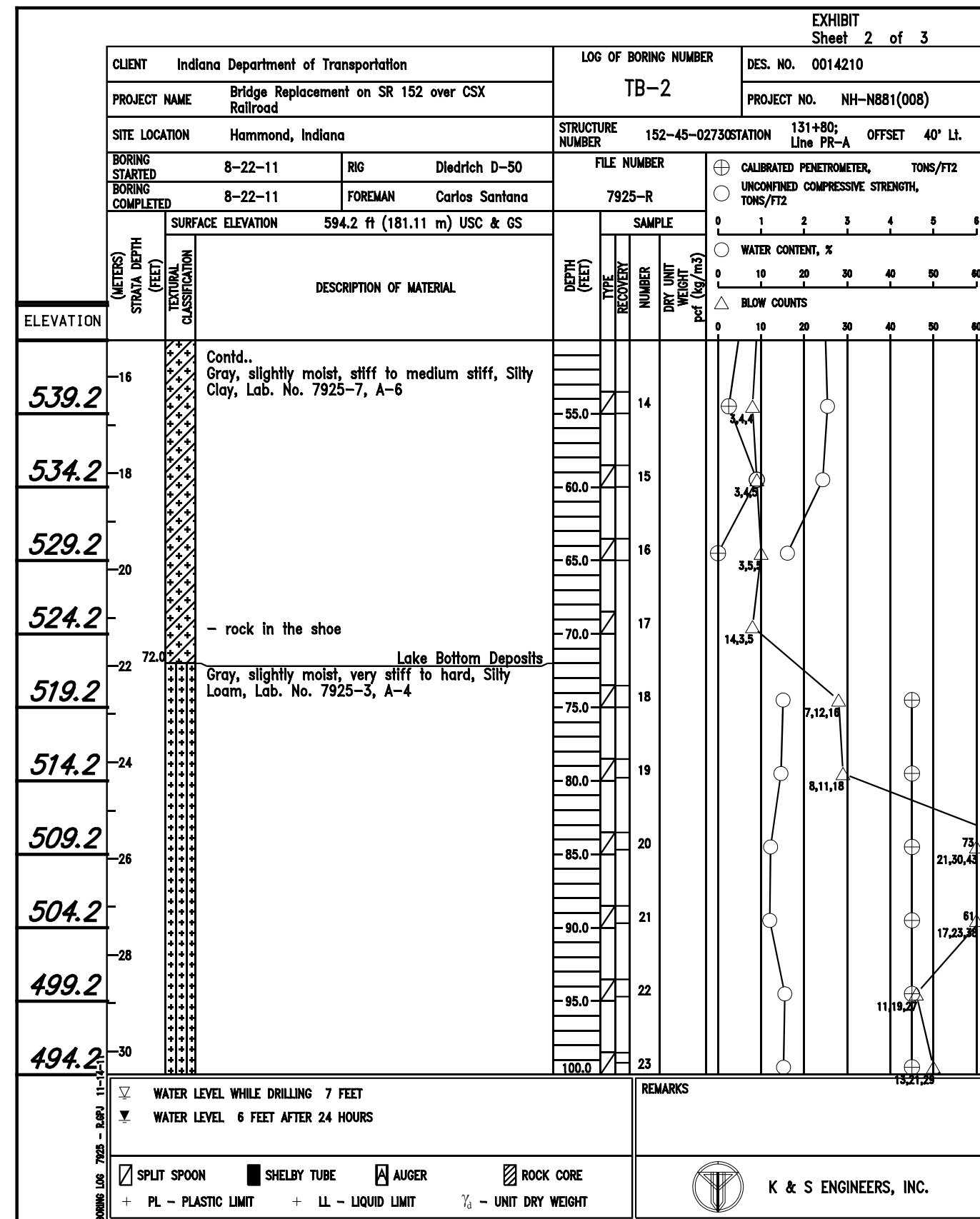
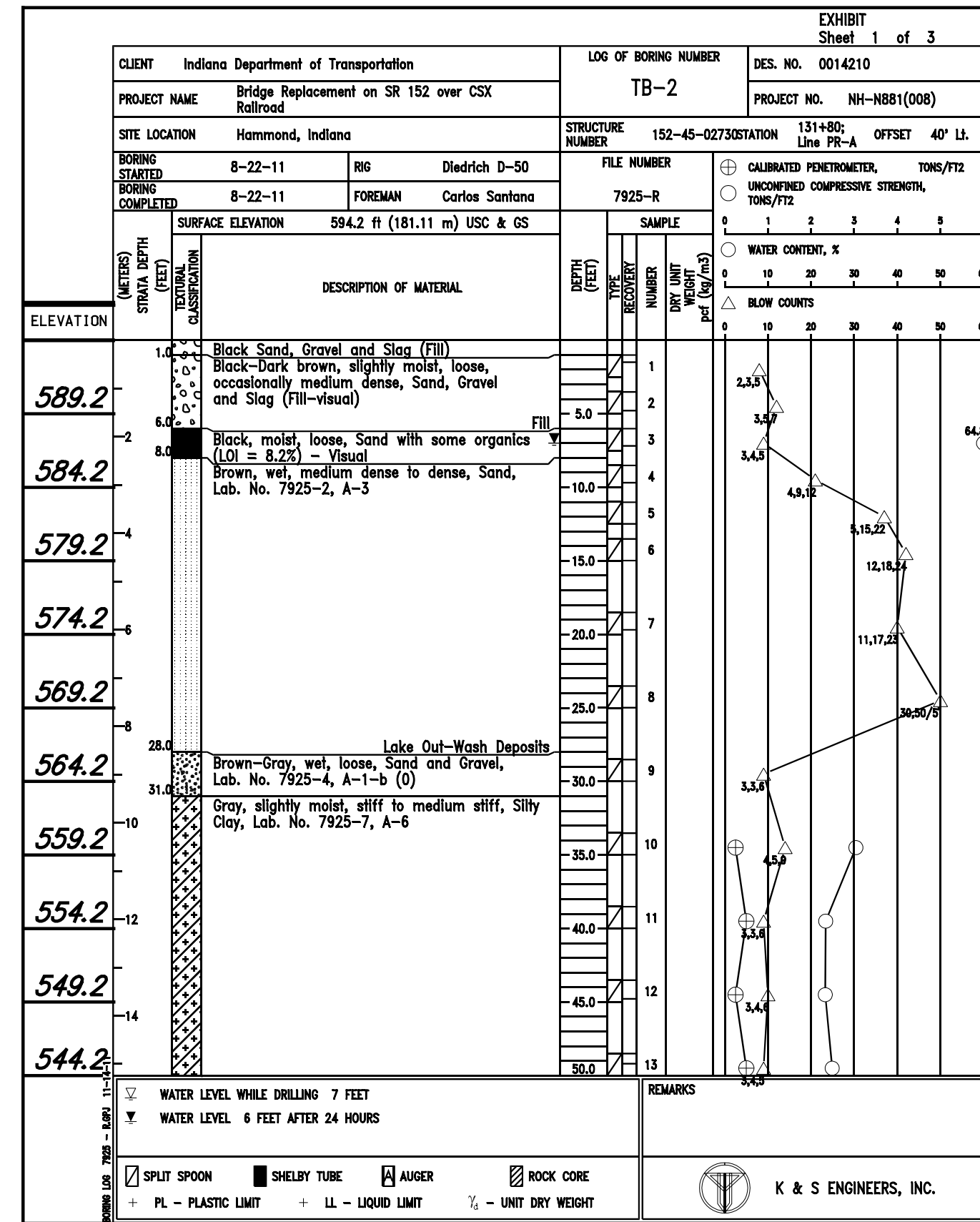
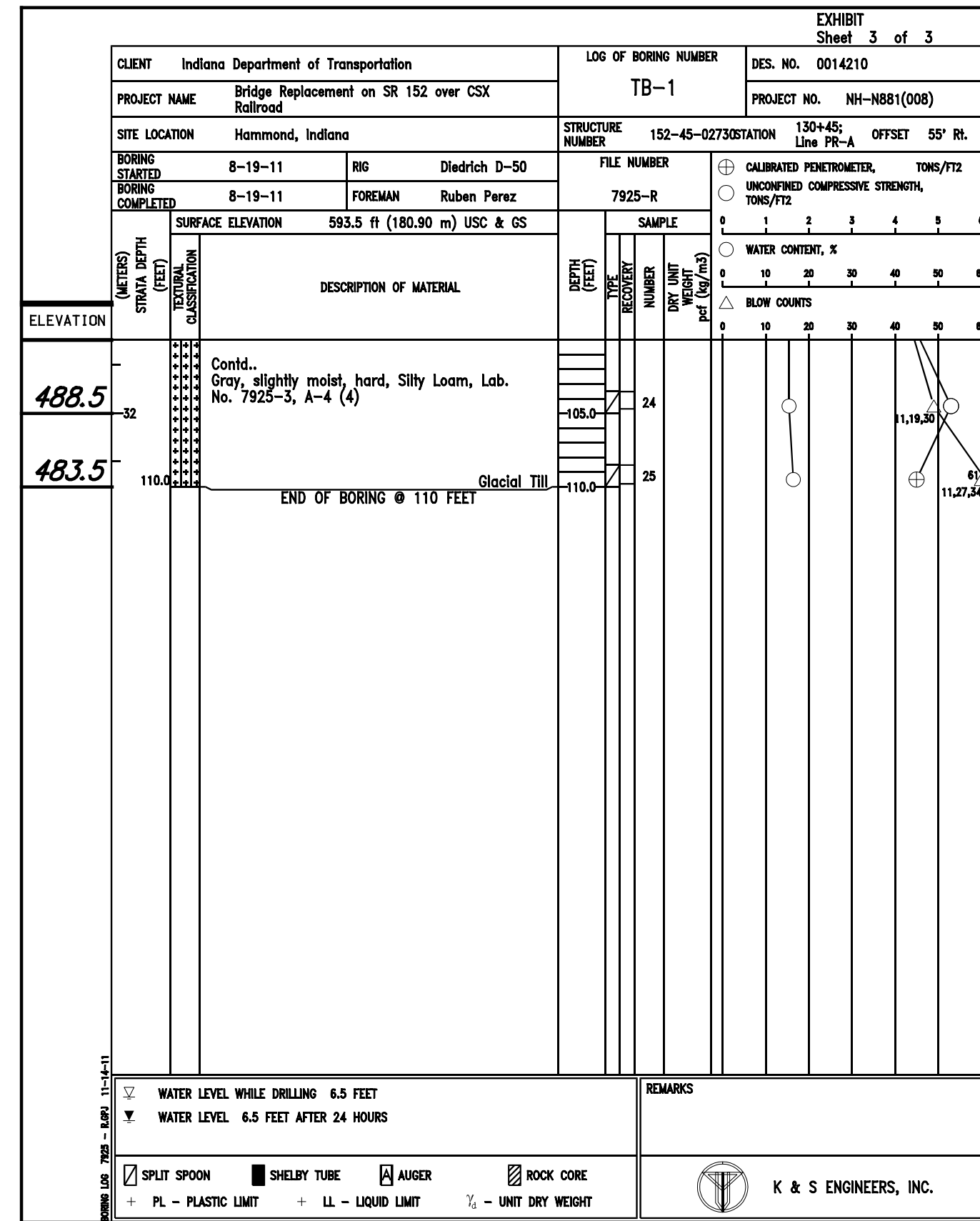
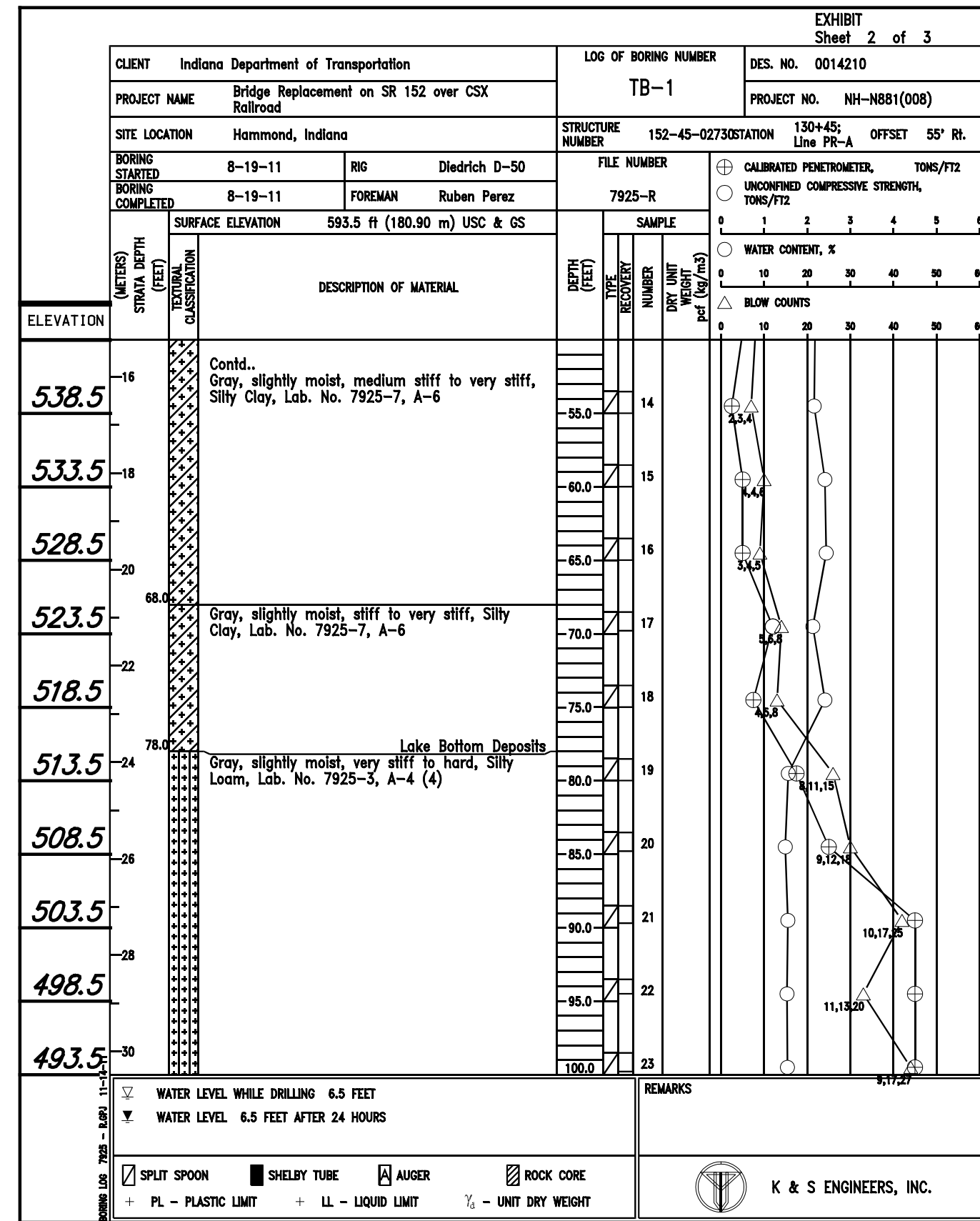
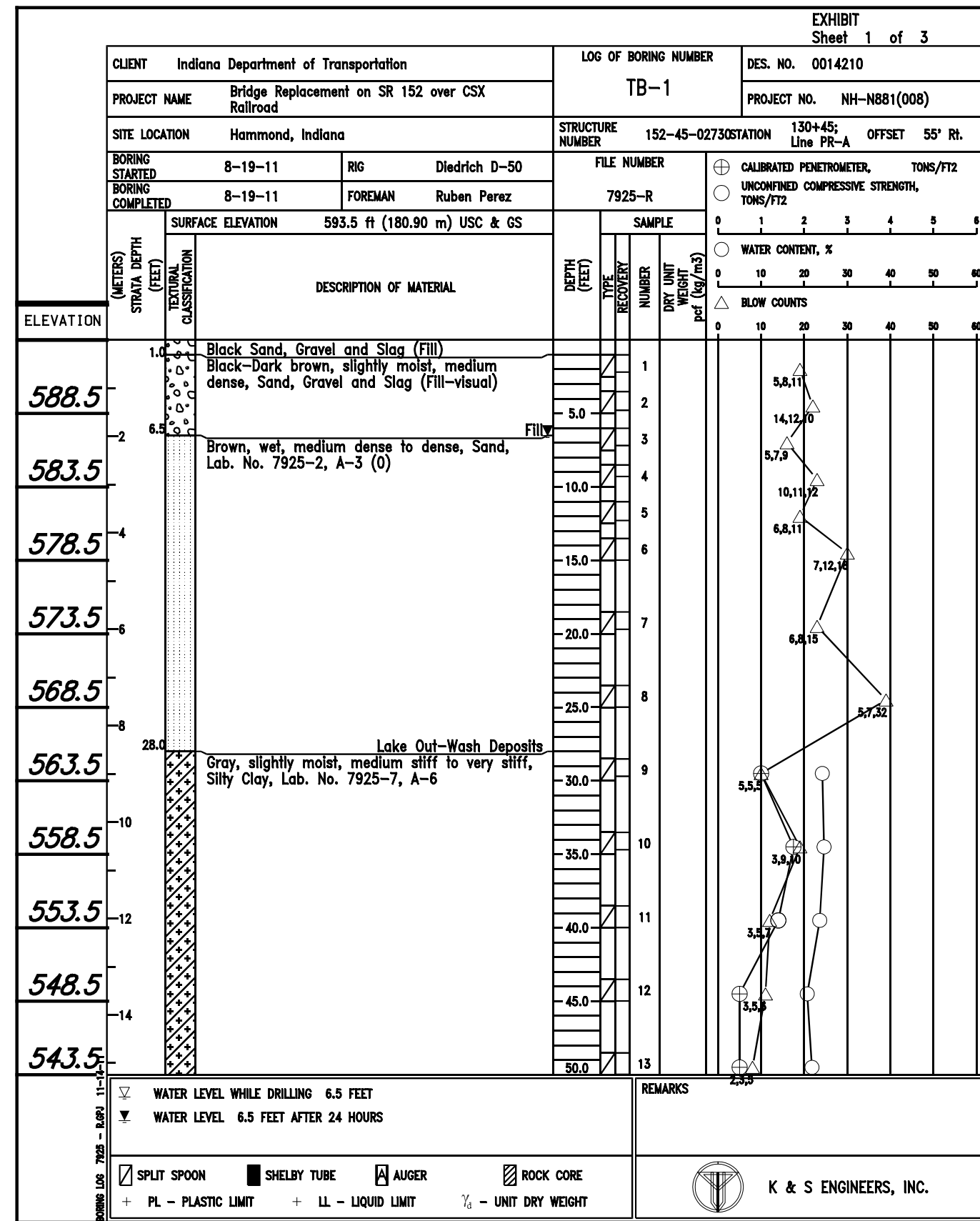
RECOMMENDED FOR APPROVAL
 Alison M. Krupski
 DESIGN ENGINEER
 6/1/2012
 DATE

DESIGNED: RP/CS/MR
 DRAWN: EWM
 CHECKED: RP/CS/MR
 CHECKED: AMK

INDIANA
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

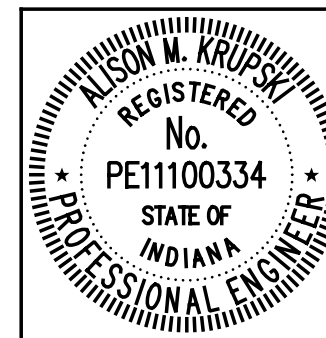
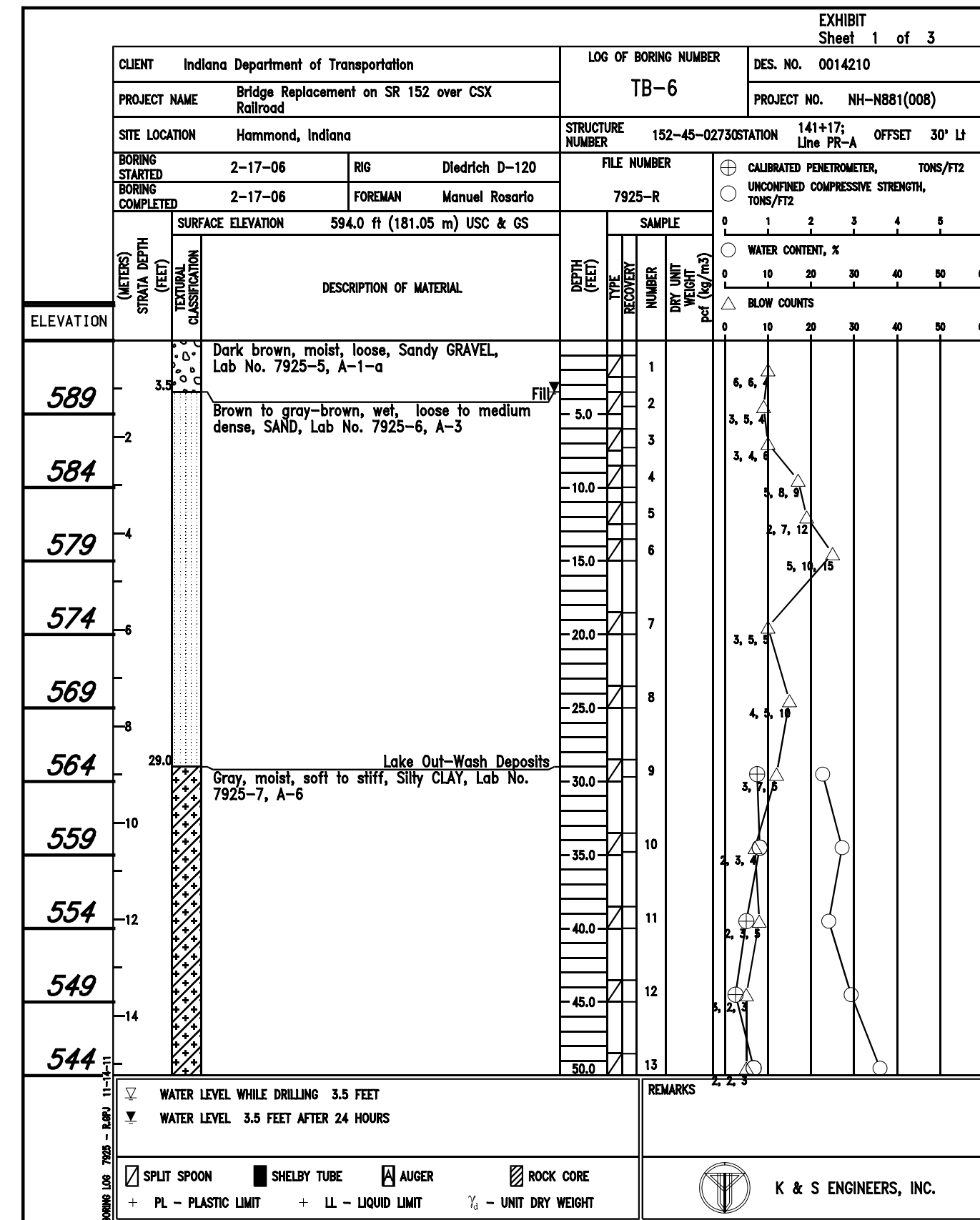
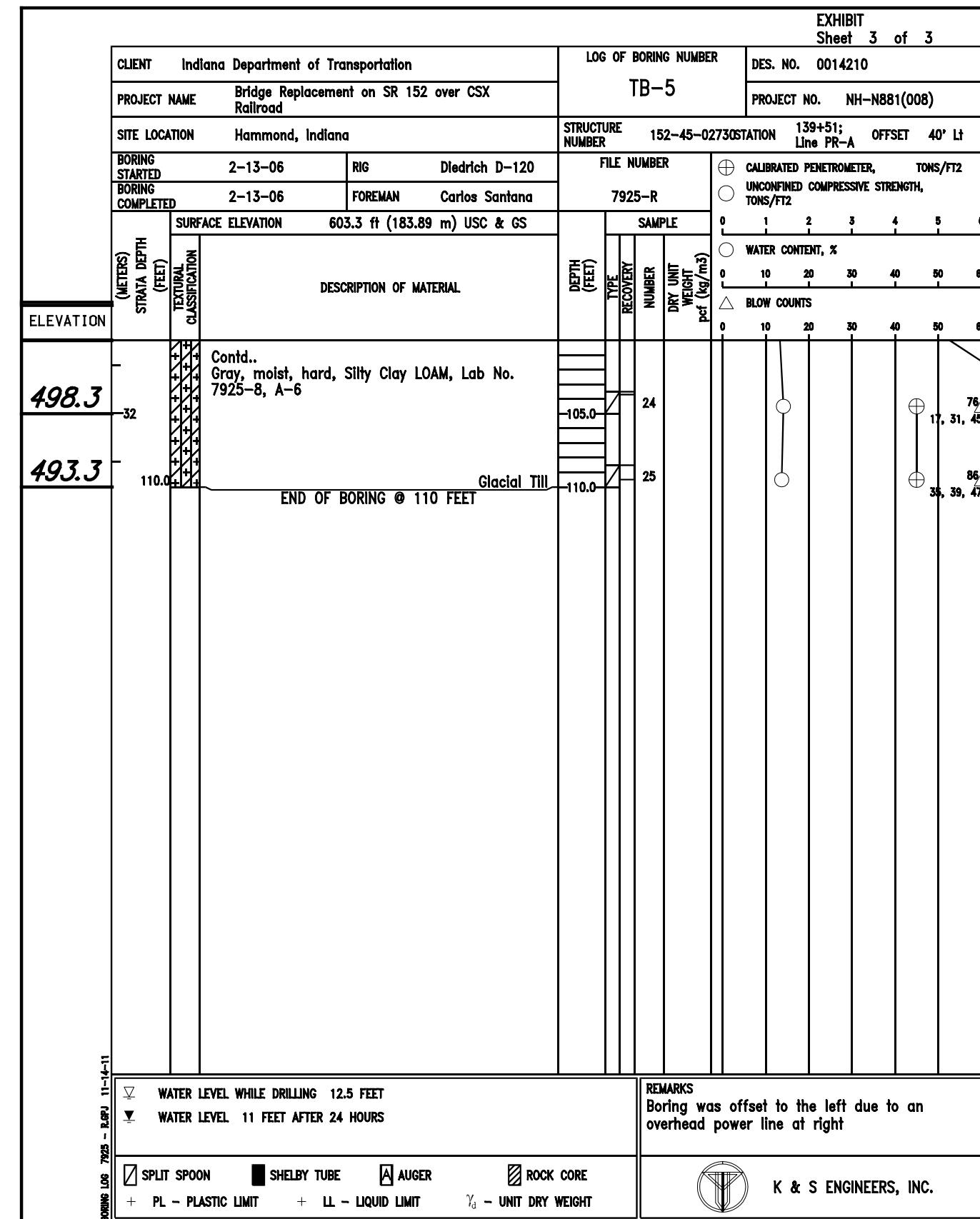
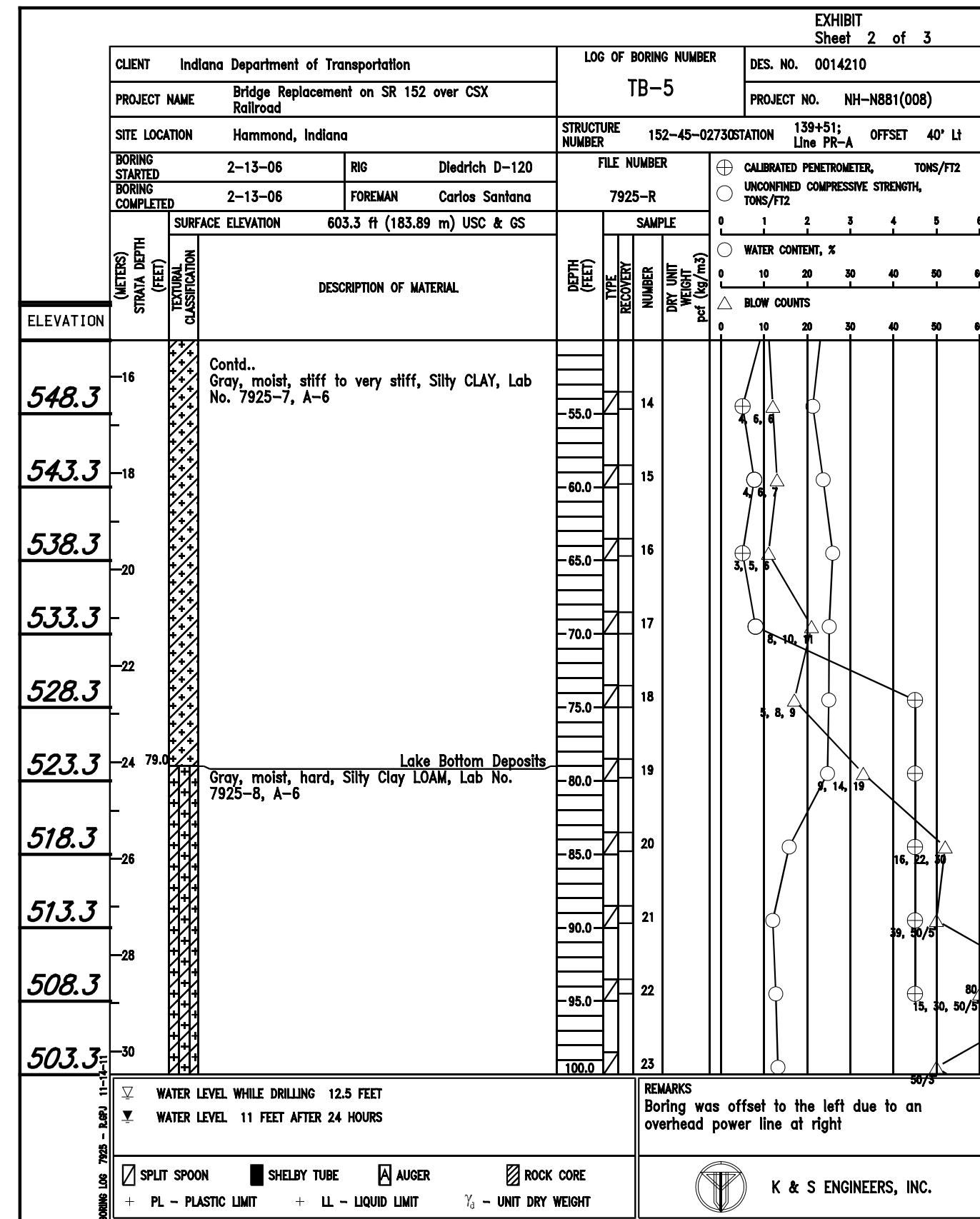
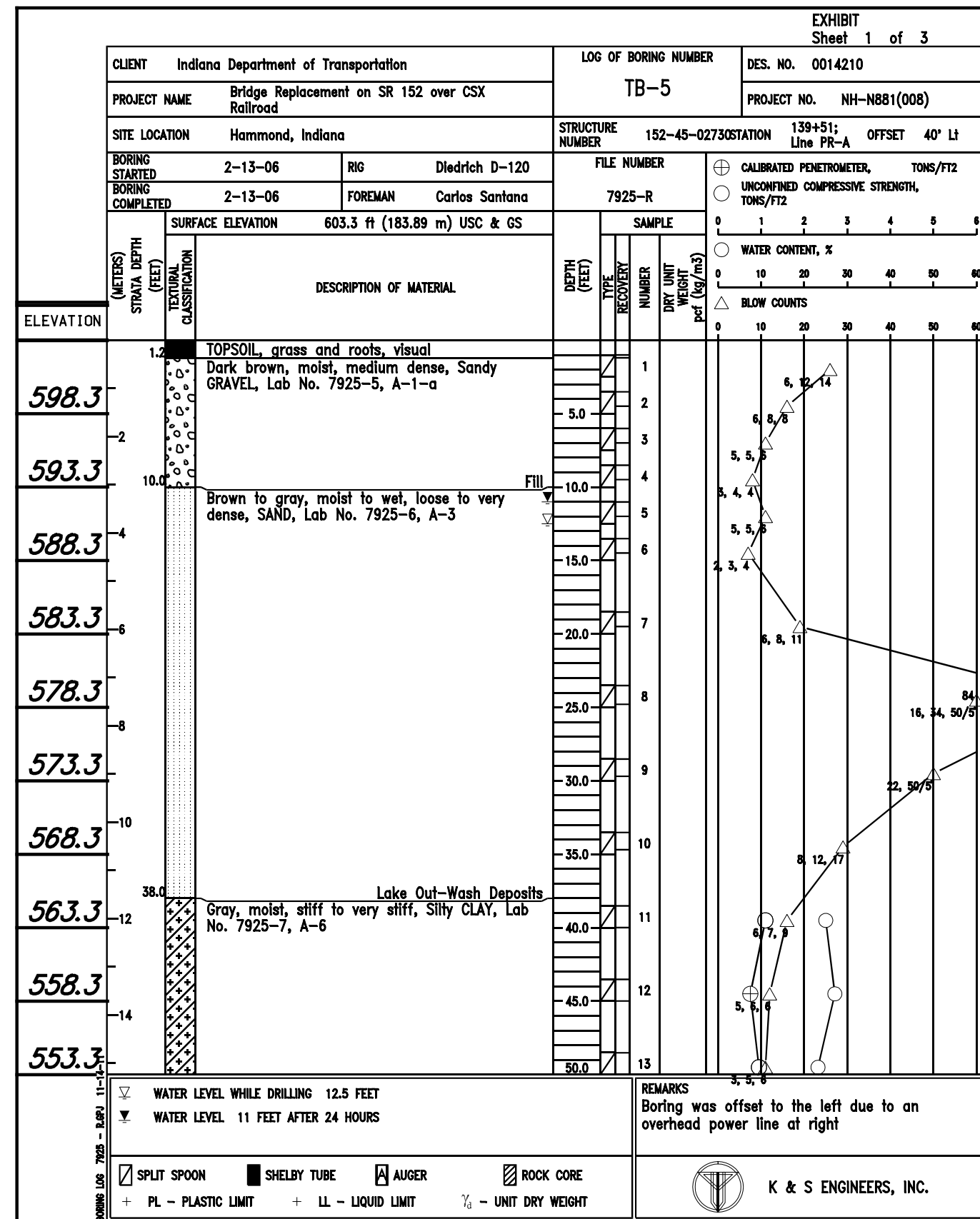
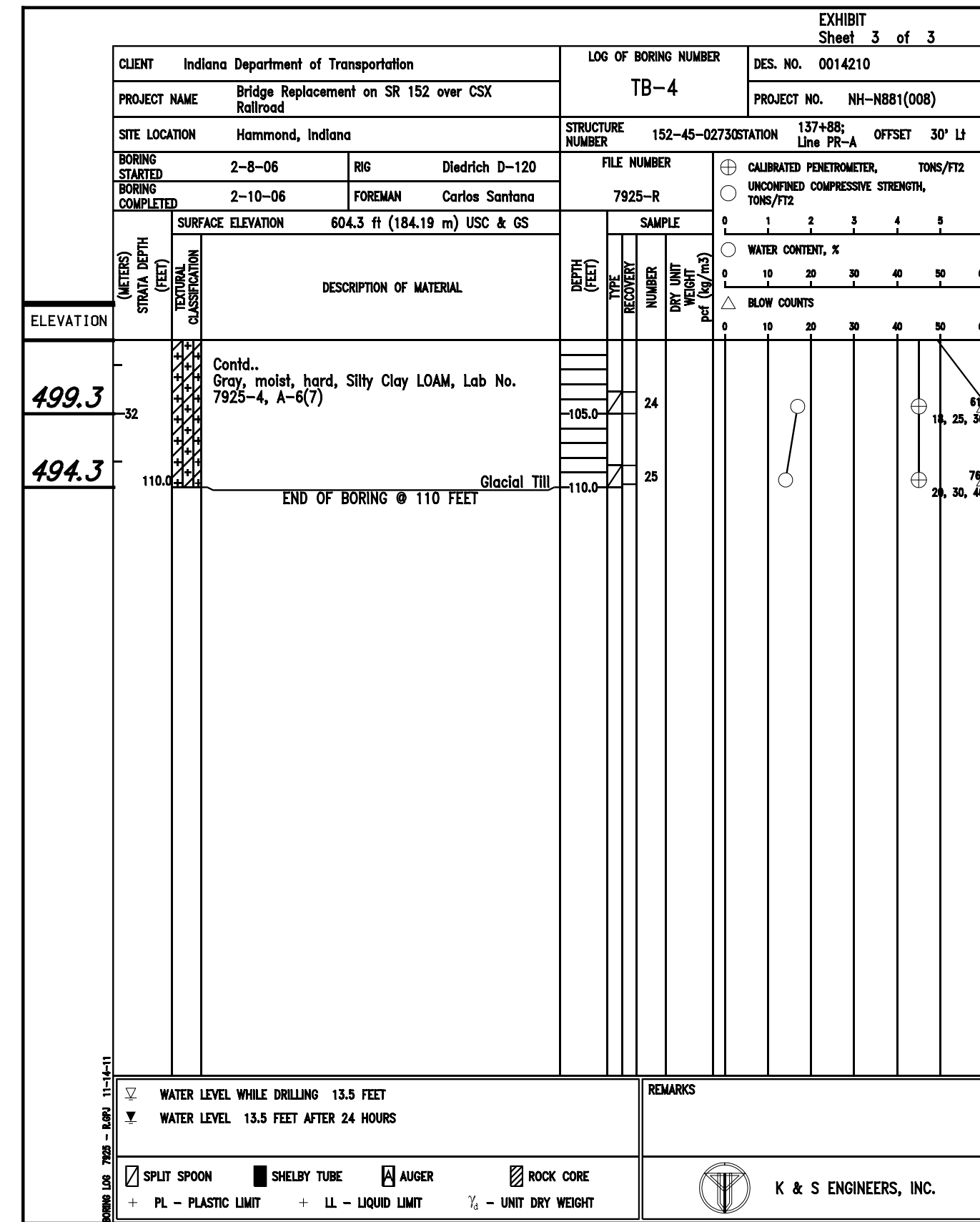
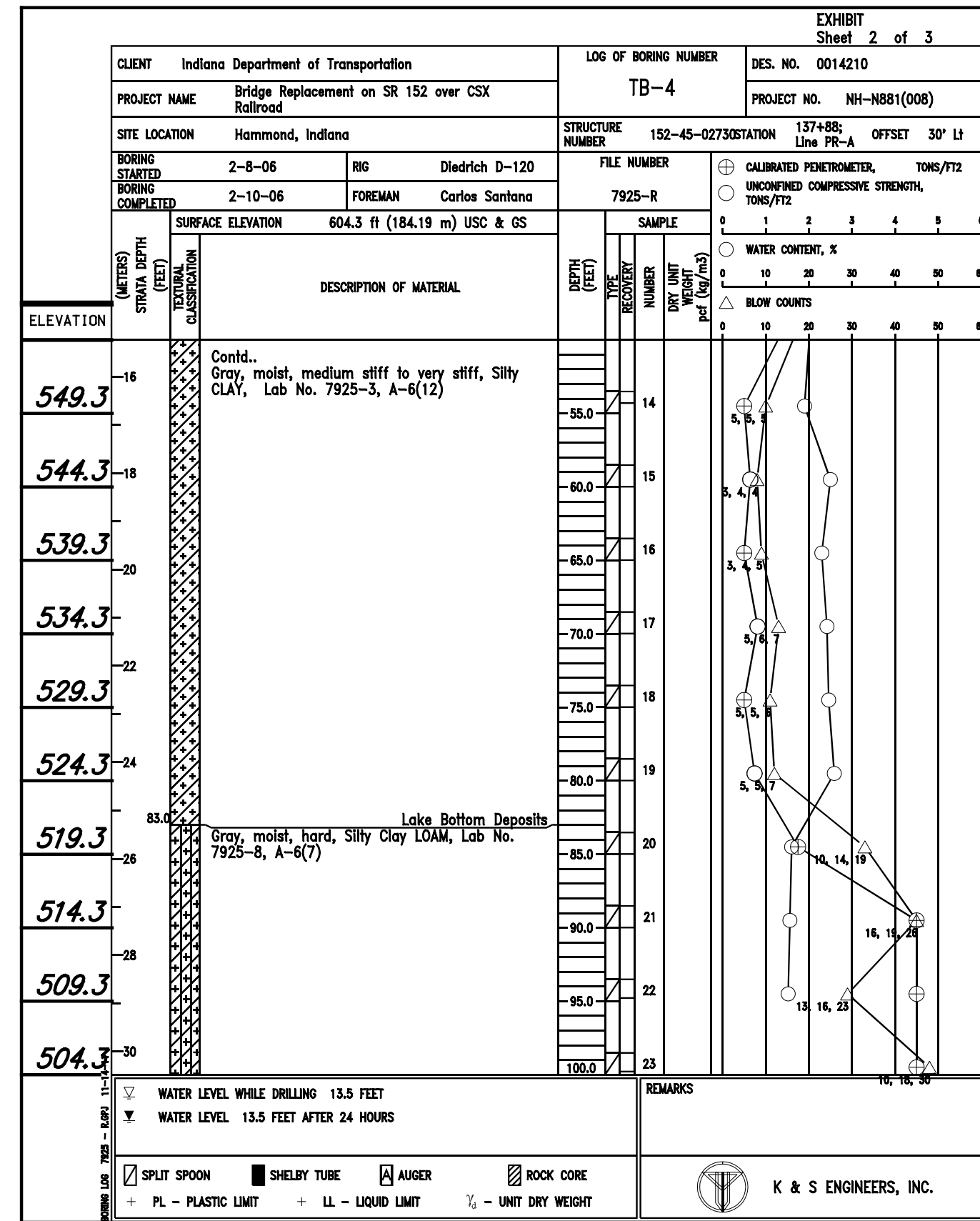
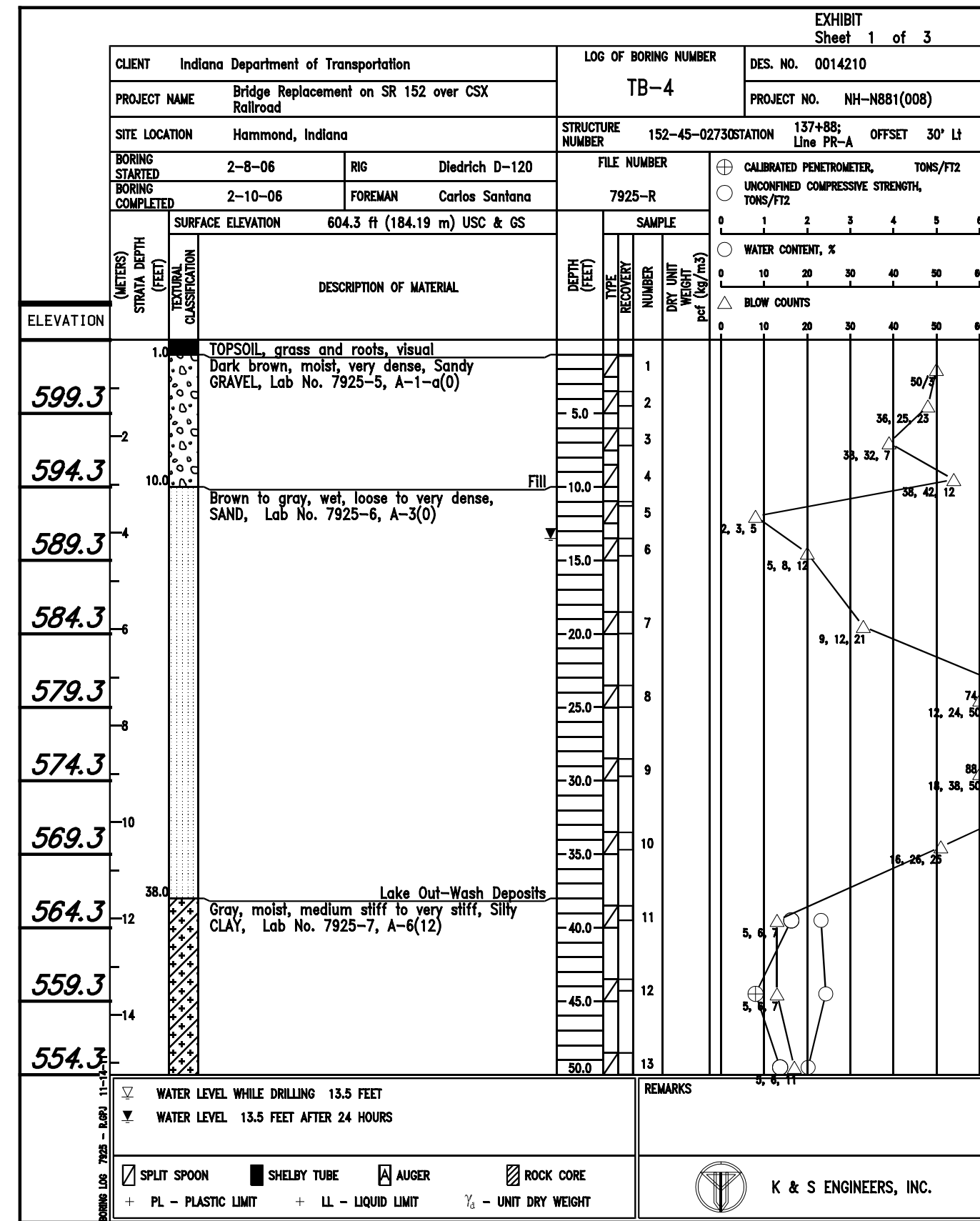
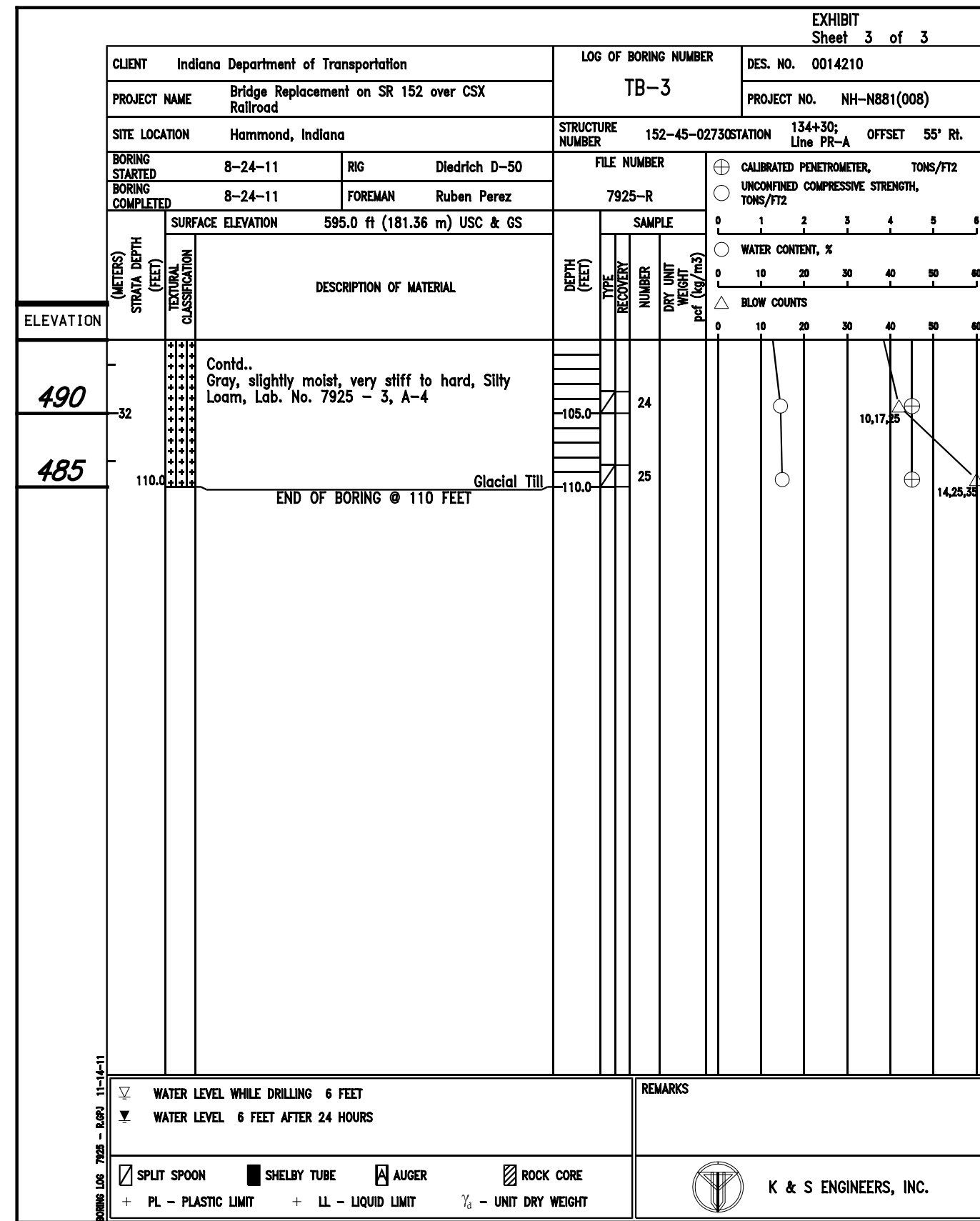
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VERTICAL SCALE	DESIGNATION NO.
NONE	0014210
SURVEY BOOK	SHEETS
	47 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012 DATE
 DESIGNER: RP/CS/MR DRAWN: EWM
 CHECKED: RP/CS/MR CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
 SOIL BORINGS

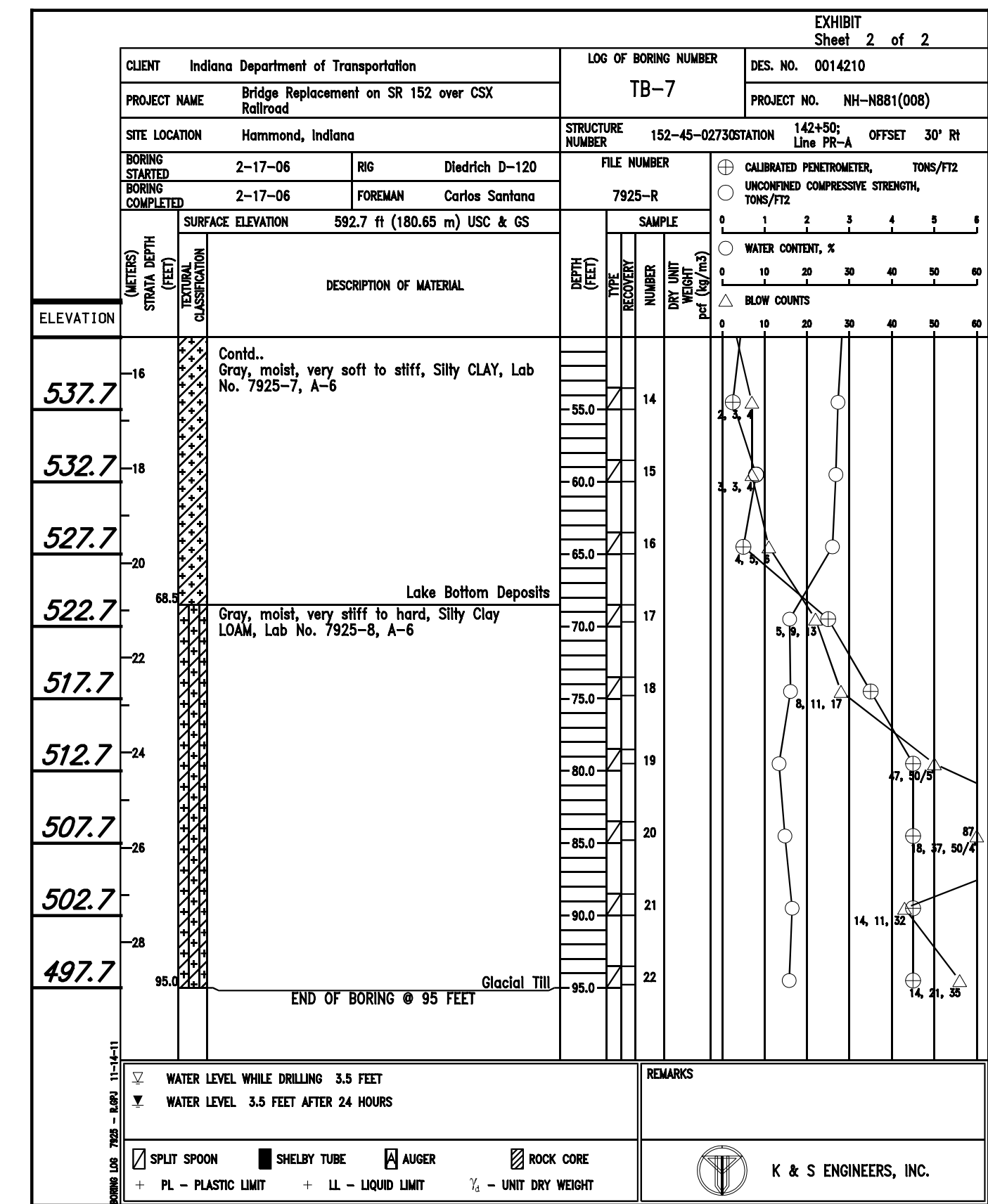
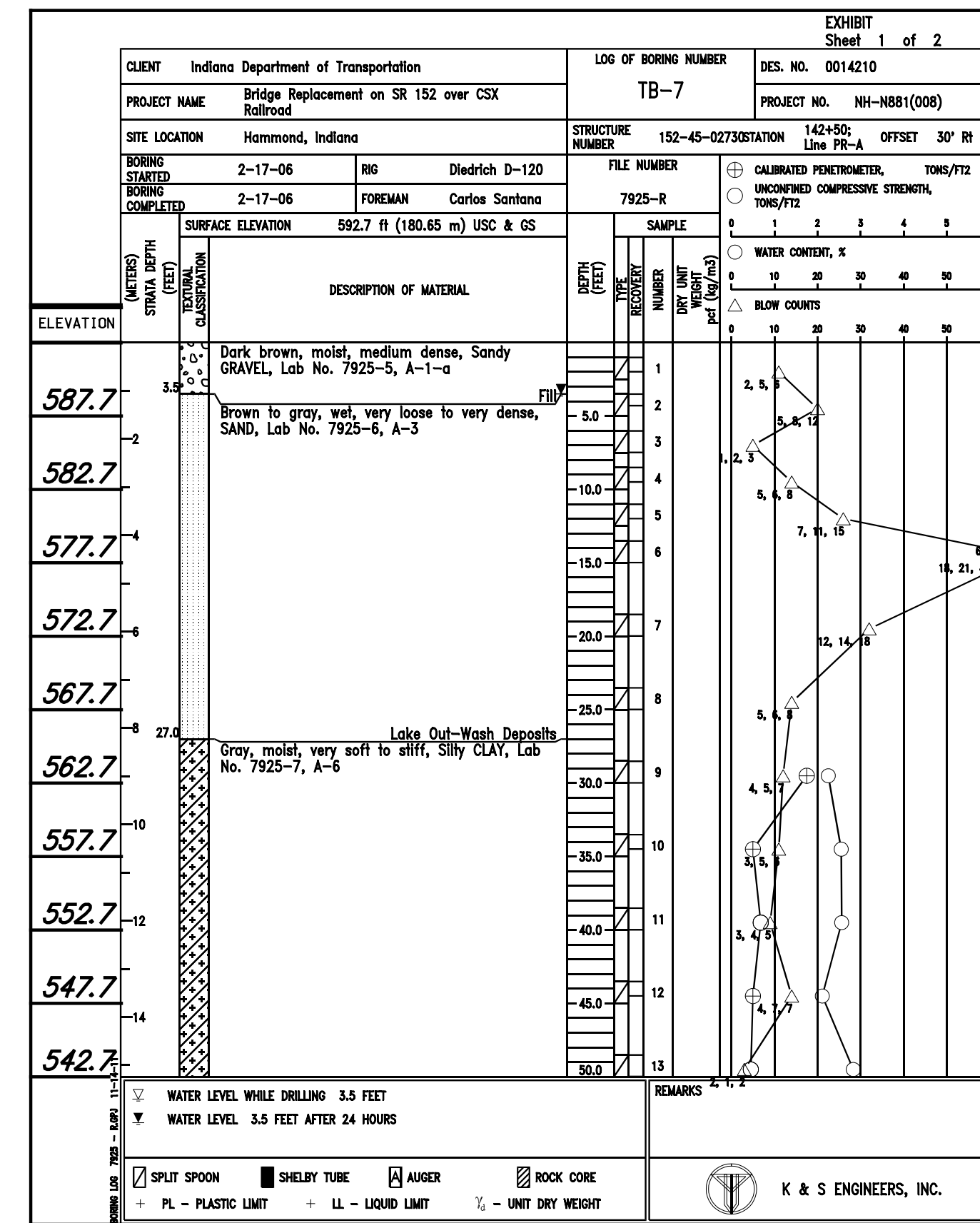
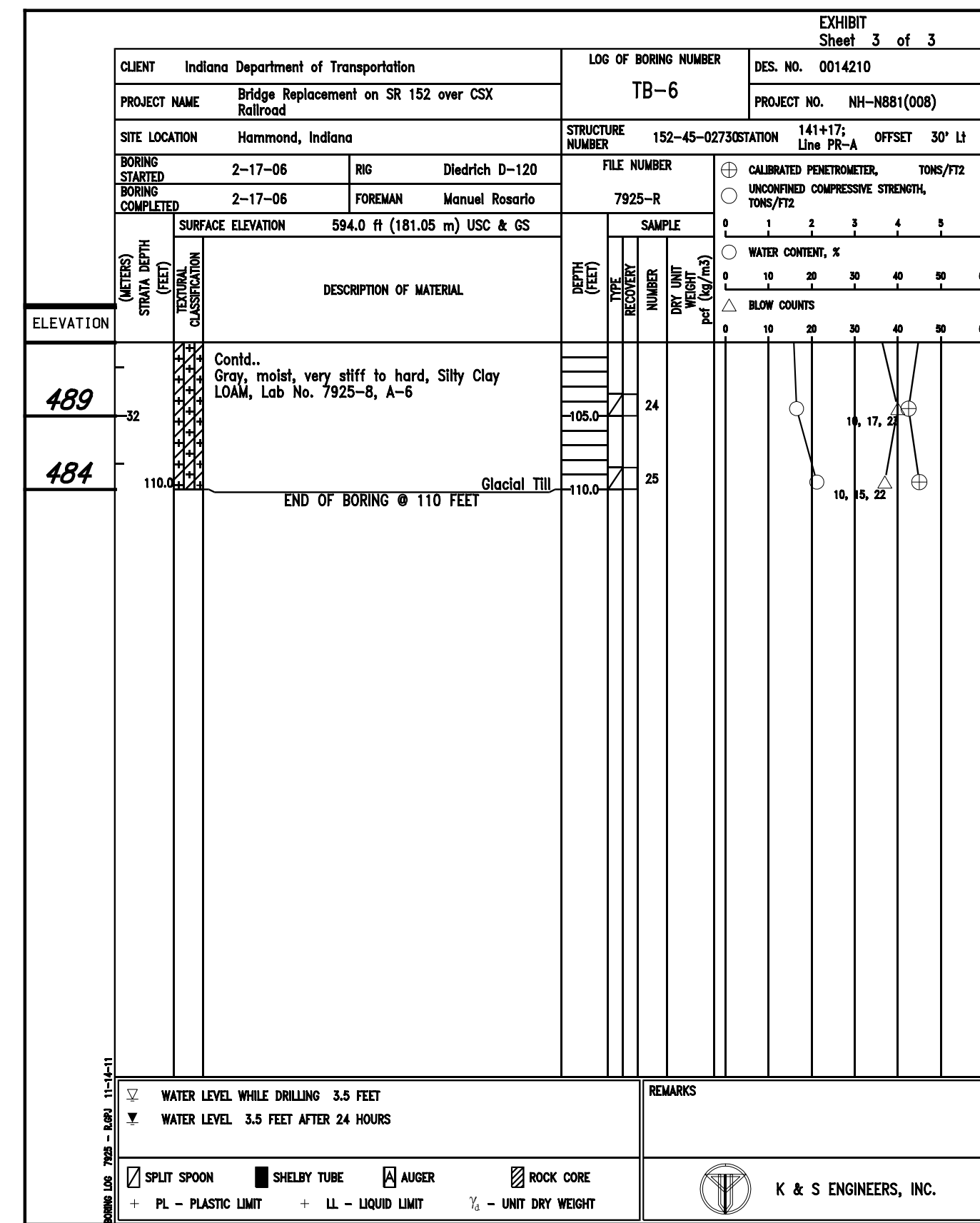
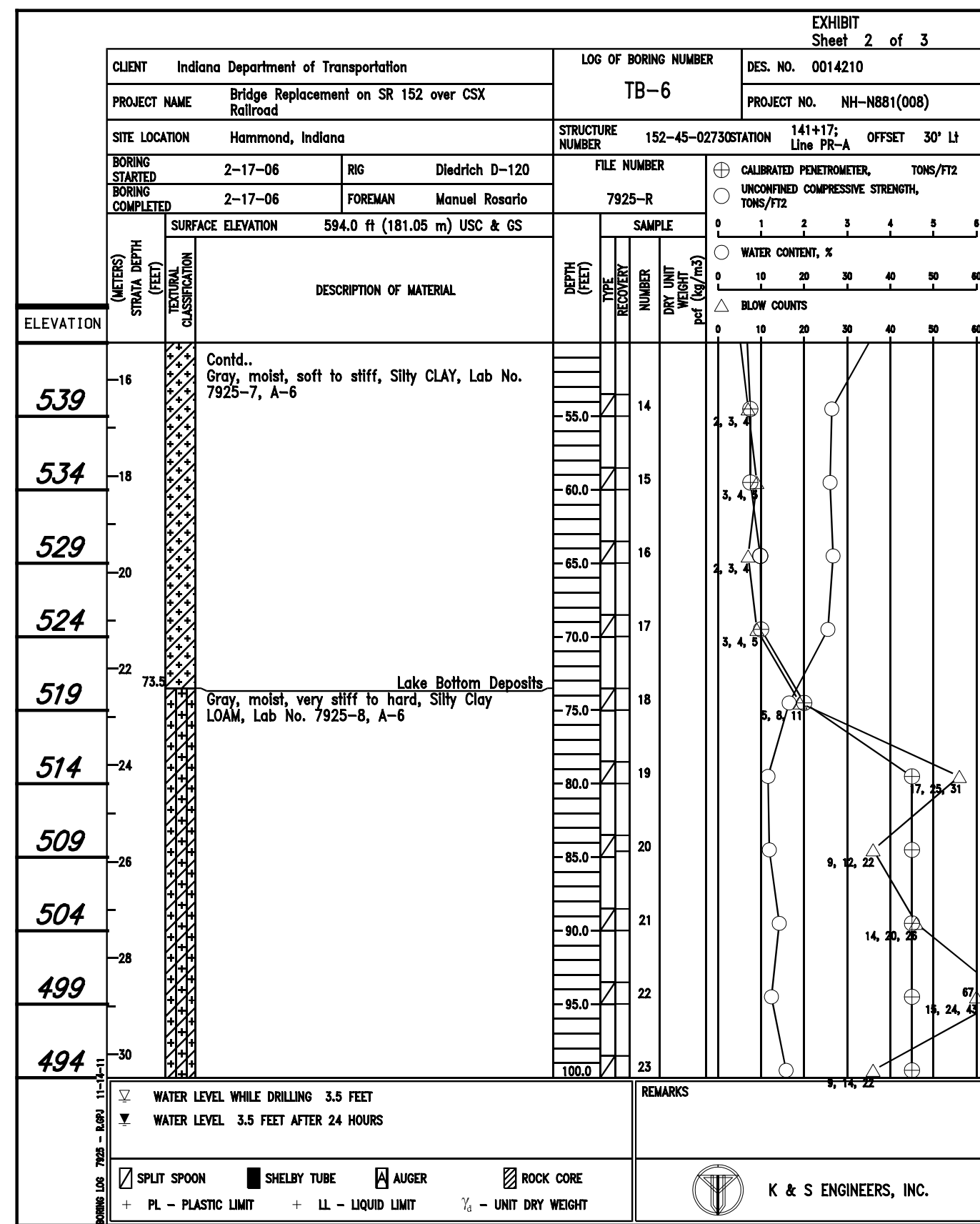
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VERTICAL SCALE	DESIGNATION NO.
NONE	0014210
SURVEY BOOK	SHEETS
	48 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012 DATE
 DESIGNER: RP/CS/MR DRAWN: EWM
 CHECKED: RP/CS/MR CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
 SOIL BORINGS

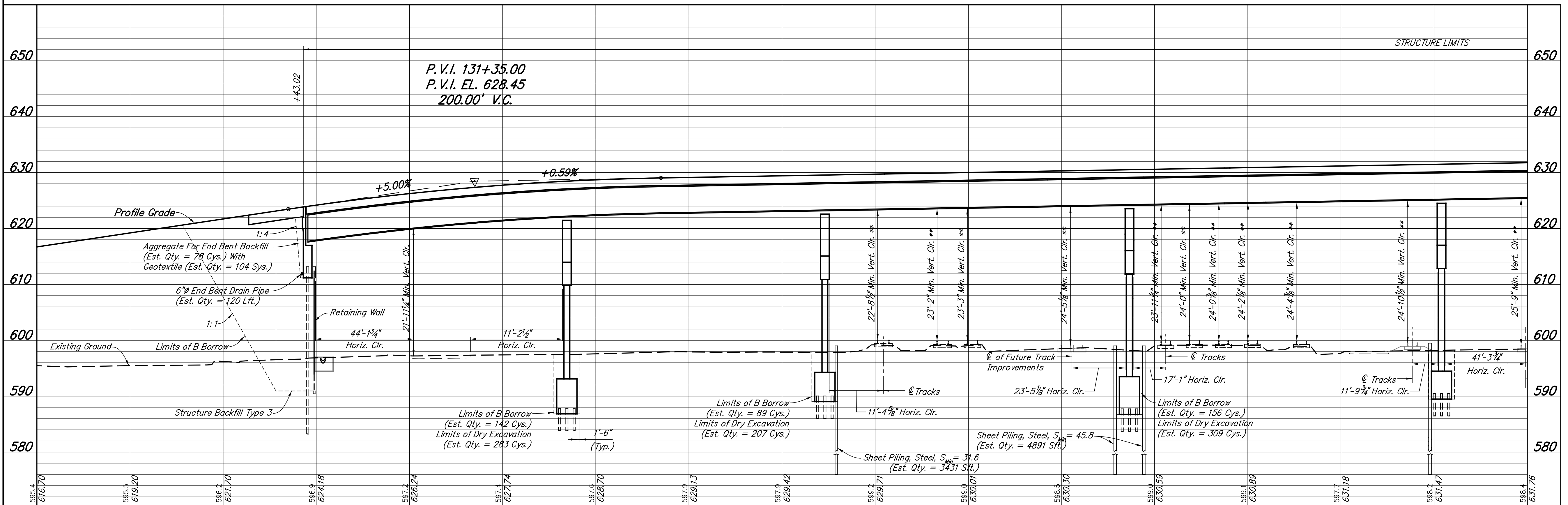
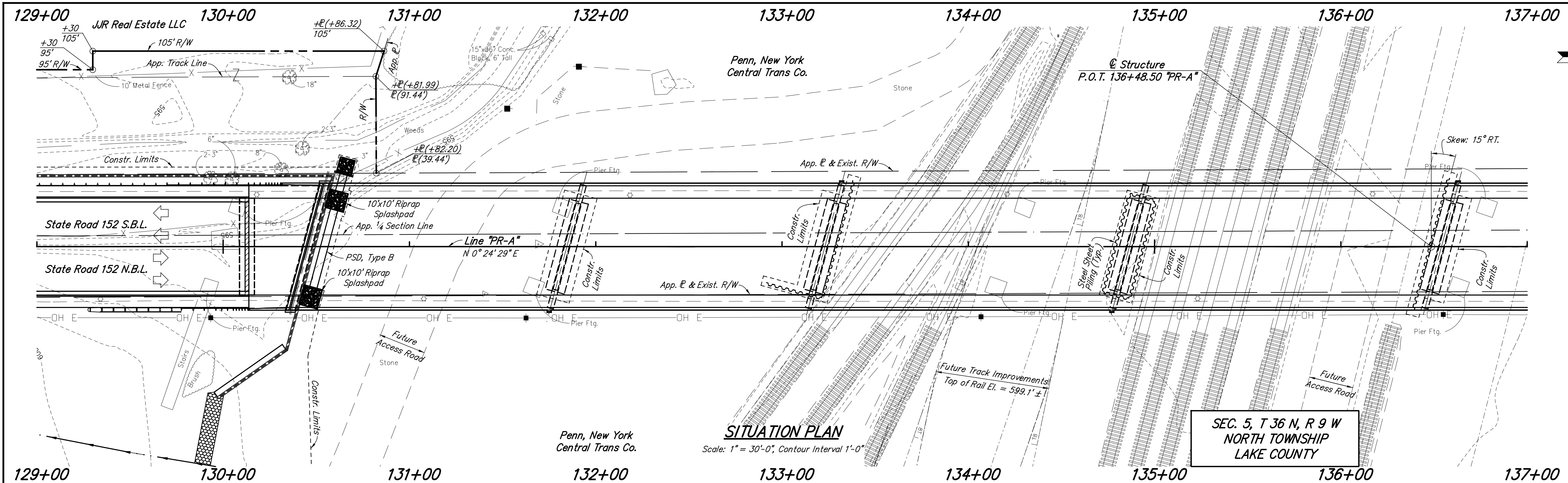
HORIZONTAL SCALE	BRIDGE FILE
NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
NONE	0014210
SURVEY BOOK	SHEETS
	49 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: RP/CS/MR DRAWN: EWM
CHECKED: RP/CS/MR CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
SOIL BORINGS		NONE	152-45-02730
		VERTICAL SCALE	DESIGNATION NO.
		NONE	0014210
		SURVEY BOOK	SHEETS
		CONTRACT	50 of 149
		B-33357	PROJECT NO.
			N881008



NOTES:

** All vertical clearance points are actually 6" left of \odot tracks. Shown on track for clarity.

All R/W on this sheet is described from Line "PR-A".

For alignment references, benchmarks and side ditch grades, see Road Plan and Profile Sheets.

CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE
STATE ROAD 152 OVER INDIANA HARBOR BELT RAILROAD
8 SPANS: 138'-6", 138'-6", 163'-6", 167'-6", 128'-0", 150'-0", 167'-6", 151'-6"
SKEW: 15° RT. 52'-0" CLEAR ROADWAY

DESIGNED: RMC	DRAWN: EWM
CHECKED: DAD	CHECKED: DAD

RECOMMENDED FOR APPROVAL

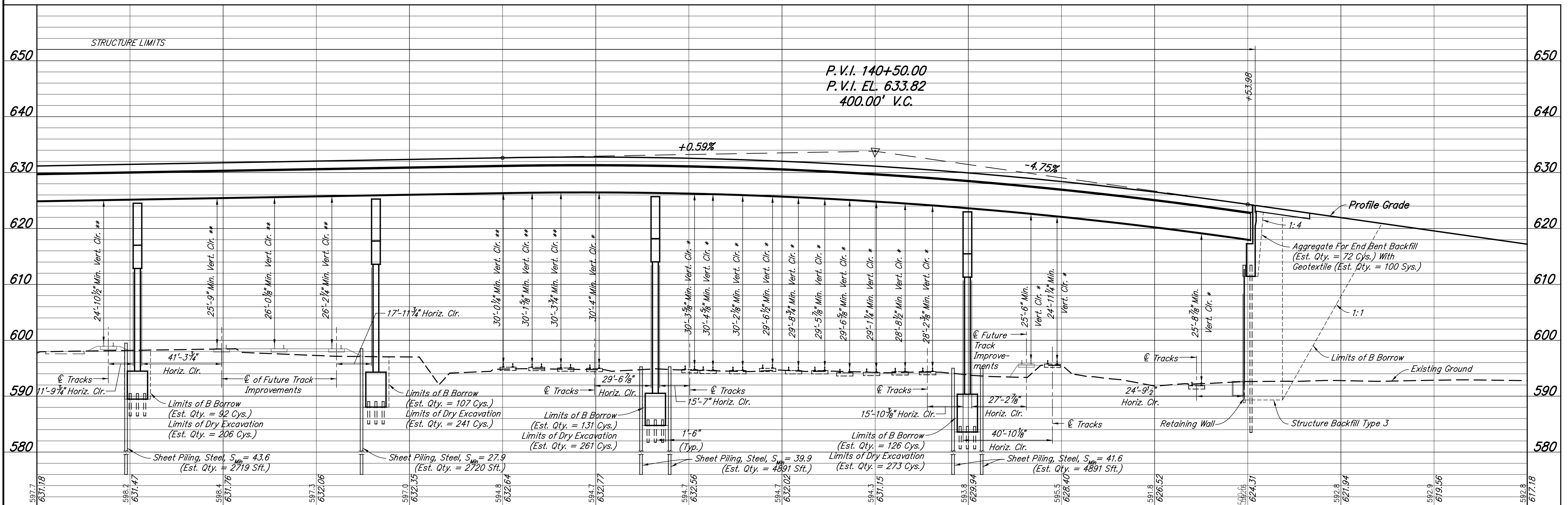
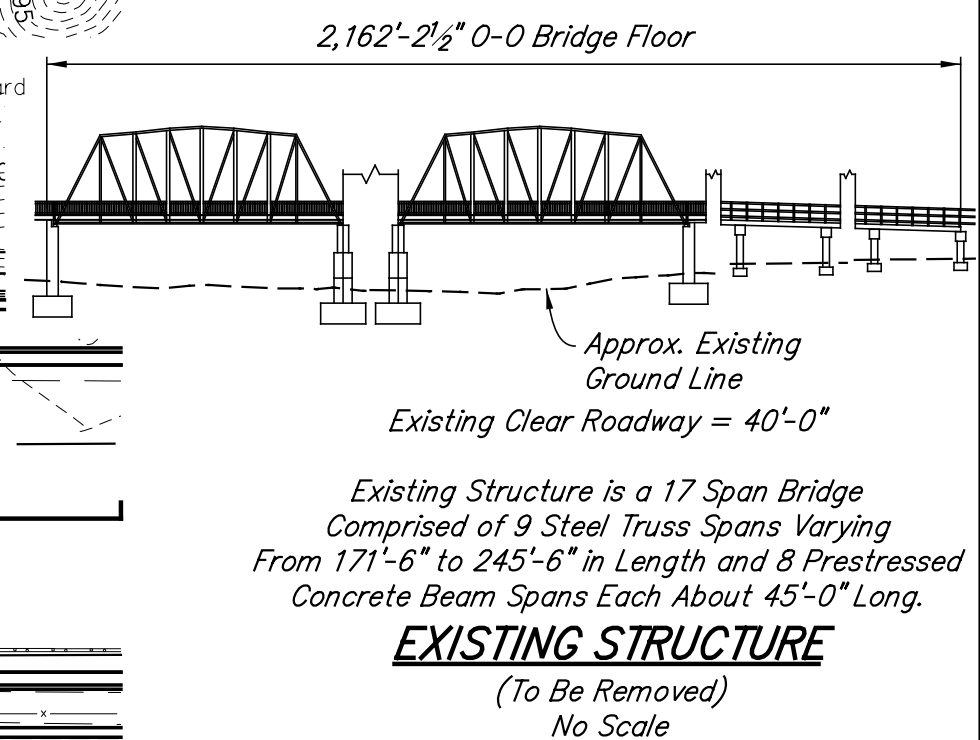
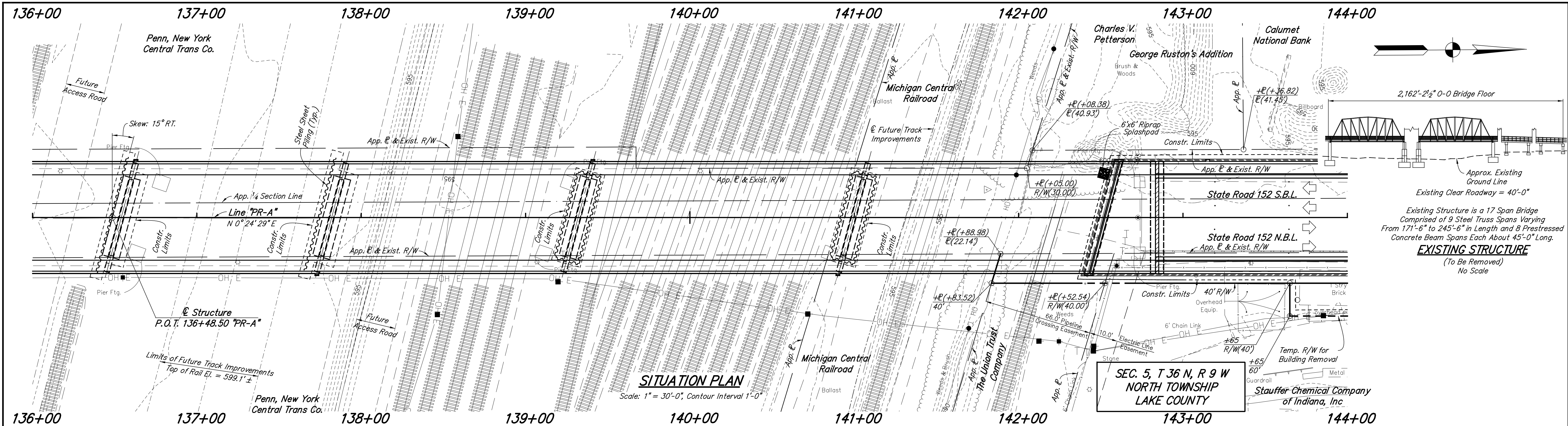
Alison M. Krupski 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: RMC DRAWN: EWM
CHECKED: DAD CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 152-45-02730
VERTICAL SCALE AS NOTED	DESIGNATION NO. 0014210
SURVEY BOOK B-33357	SHEETS 51 of 149
	PROJECT NO. N881008



NOTES:

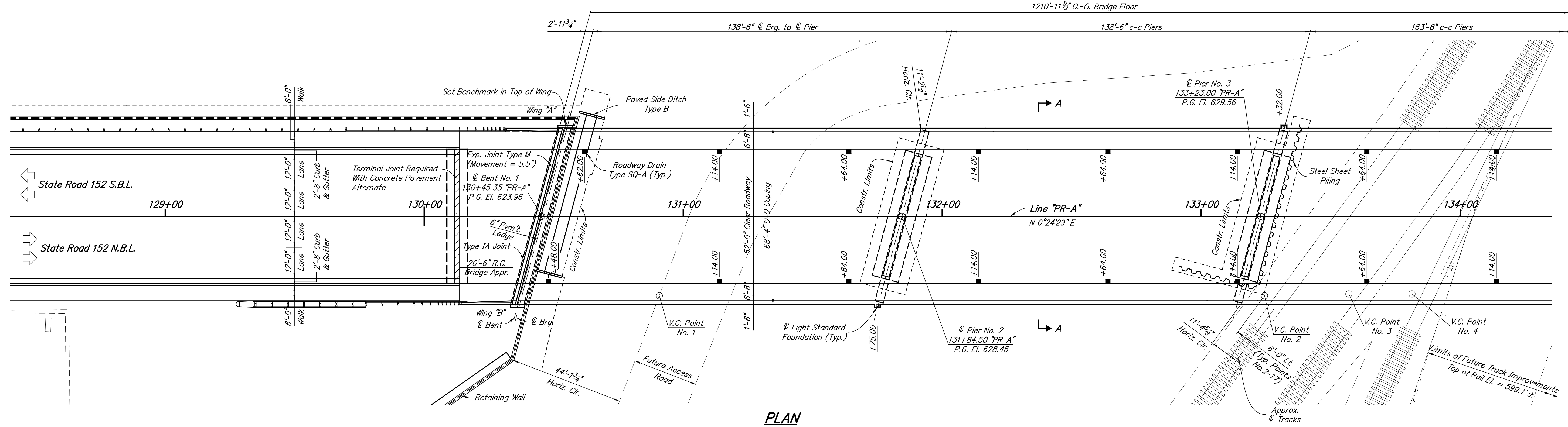
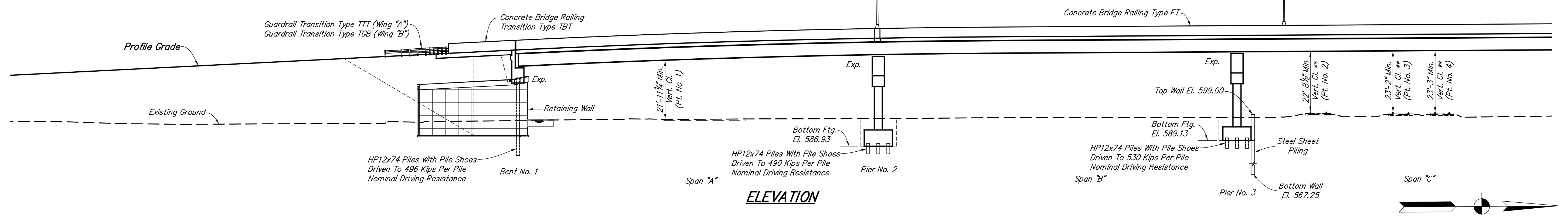
- * All vertical clearance points are actually 6' right of ℓ tracks. Shown on track for clarity.
- ** All vertical clearance points are actually 6' left of ℓ tracks. Shown on track for clarity.
- All R/W on this sheet is described from Line "PR-A".
- For alignment references, benchmarks and topo references, guardrail limits and side ditch grades, see Road Plan and Profile Sheets.

CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE
STATE ROAD 152 OVER INDIANA HARBOR BELT RAILROAD

8 SPANS: 138'-6", 138'-6", 163'-6", 167'-6", 128'-0", 150'-0", 167'-6", 151'-6"
SKEW: 15° RT. 52'-0" CLEAR ROADWAY

	RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	6/1/2012 DATE	INDIANA DEPARTMENT OF TRANSPORTATION LAYOUT	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: RMC	DRAWN: EWM	CHECKED: DAD		CHECKED: DAD	AS NOTED
				VERTICAL SCALE	DESIGNATION NO.	
				AS NOTED	0014210	
				SURVEY BOOK	SHEETS	
				CONTRACT	52 of 149	
				B-33357	PROJECT NO.	N881008

STRUCTURE TO BE BUILT TO A 200' VERTICAL CURVE, +0.59% GRADE, 400' VERTICAL CURVE & A -4.75% GRADE



NOTES:

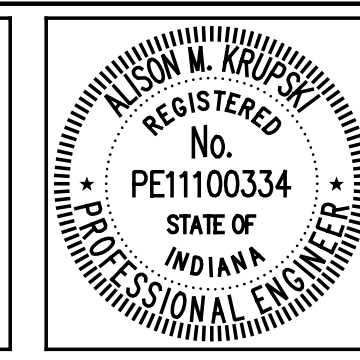
** Vertical clearance points are actually 6' left of @ tracks. Shown on track for clarity.

For Section A-A, see Sheet No. 55.

CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE

STATE ROAD 152 OVER INDIANA HARBOR BELT RAILROAD

8 SPANS: 138'-6", 138'-6", 163'-6", 167'-6", 128'-0", 150'-0", 167'-6", 151'-6"
SKEW: 15° RT. 52'-0" CLEAR ROADWAY



RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
DESIGN ENGINEER DATE

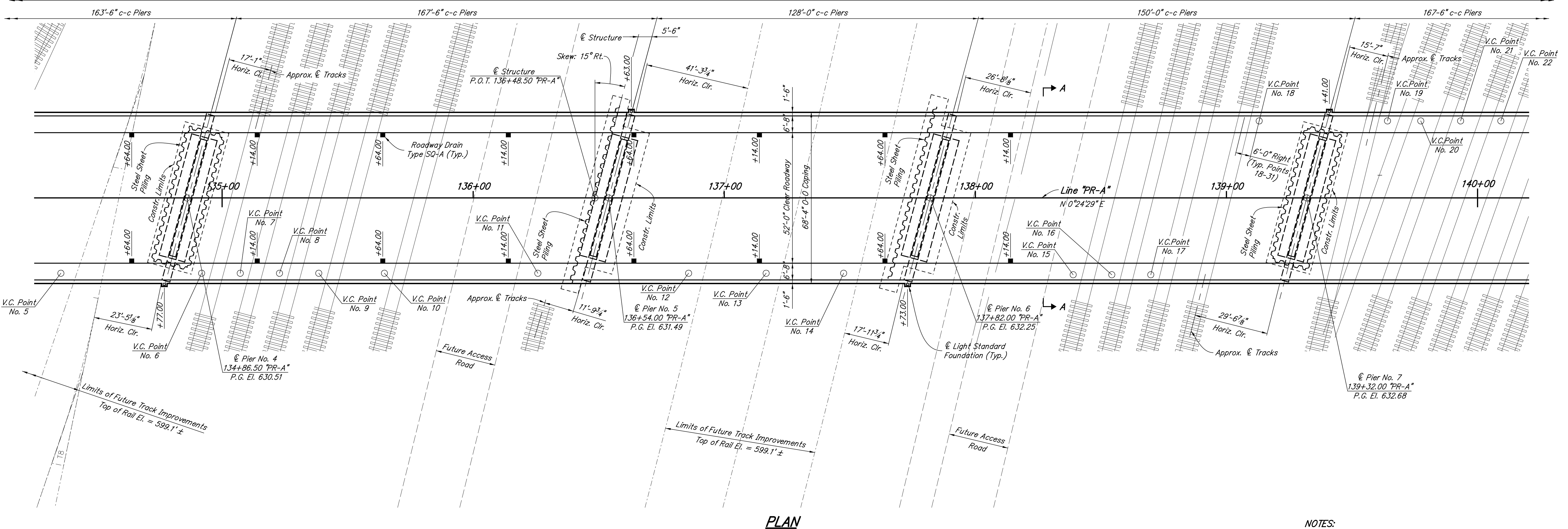
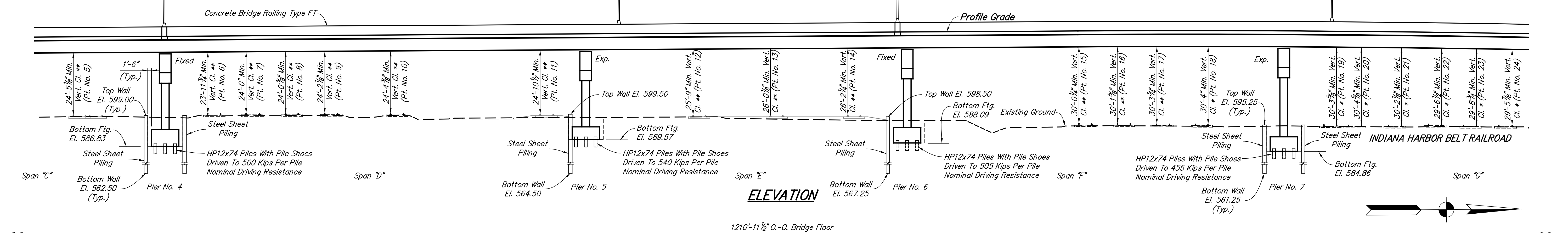
DESIGNED: RMC DRAWN: EWM
CHECKED: AMK/DAD CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE 1" = 20'-0", UNLESS NOTED	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 20'-0", UNLESS NOTED	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS
CONTRACT B-33357	53 of 149
	PROJECT NO. N881008

STRUCTURE TO BE BUILT TO A 200' VERTICAL CURVE, +0.59% GRADE, 400' VERTICAL CURVE & A -4.75% GRADE



NOTES:

- * Vertical clearance points are actually 6' right of centerline of tracks. Shown on track for clarity.
- ** Vertical clearance points are actually 6' left of centerline of tracks. Shown on track for clarity.

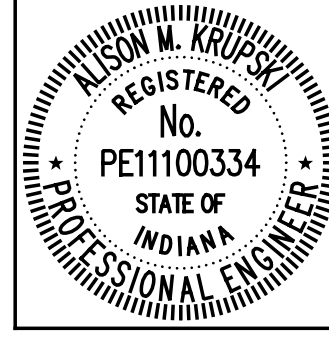
For Section A-A, see Sheet No. 55.

CONTINUOUS COMPOSITE WELDED PLATE GIRDER BRIDGE

STATE ROAD 152 OVER INDIANA HARBOR BELT RAILROAD

8 SPANS: 138'-6", 138'-6", 163'-6", 167'-6", 128'-0", 150'-0", 167'-6", 151'-6"

SKEW: 15° RT. 52'-0" CLEAR ROADWAY



RECOMMENDED FOR APPROVAL: **Alison M. Krupski**, 6/1/2012, DESIGN ENGINEER

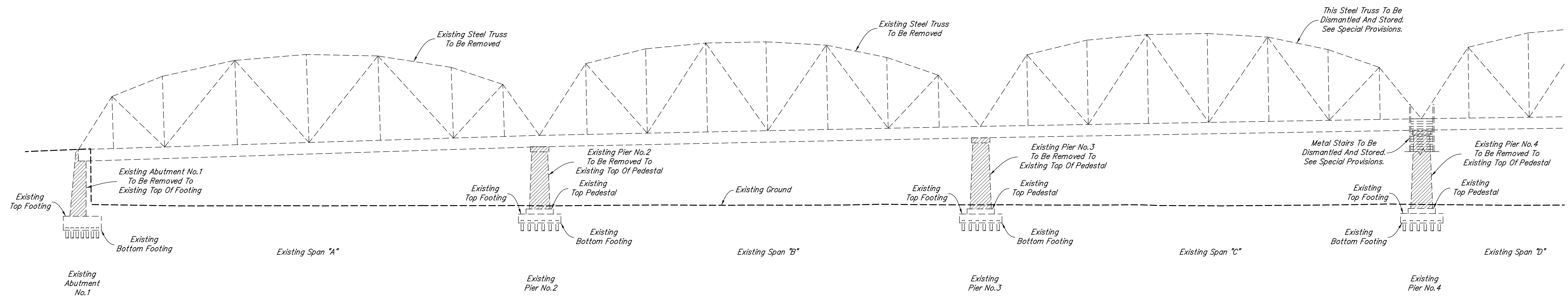
DESIGNED: RMC DRAWN: EWM

CHECKED: AMK/DAD CHECKED: AMK

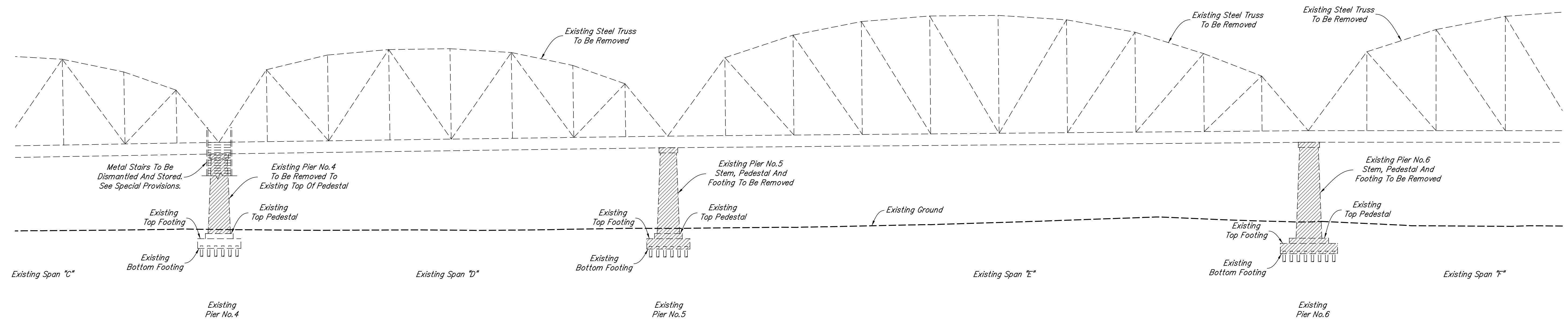
INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'-0", UNLESS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
1" = 20'-0", UNLESS NOTED	0014210
SURVEY BOOK	SHEETS
CONTRACT	54 of 149
B-33357	PROJECT NO.
	N881008

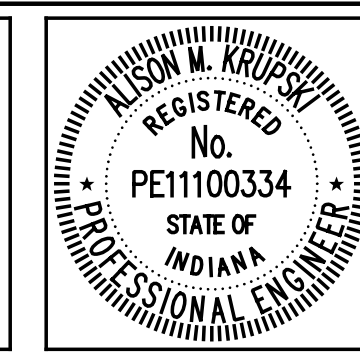


PARTIAL SUBSTRUCTURE REMOVAL ELEVATION



PARTIAL SUBSTRUCTURE REMOVAL ELEVATION

Indicates Limits Of Structure Removal



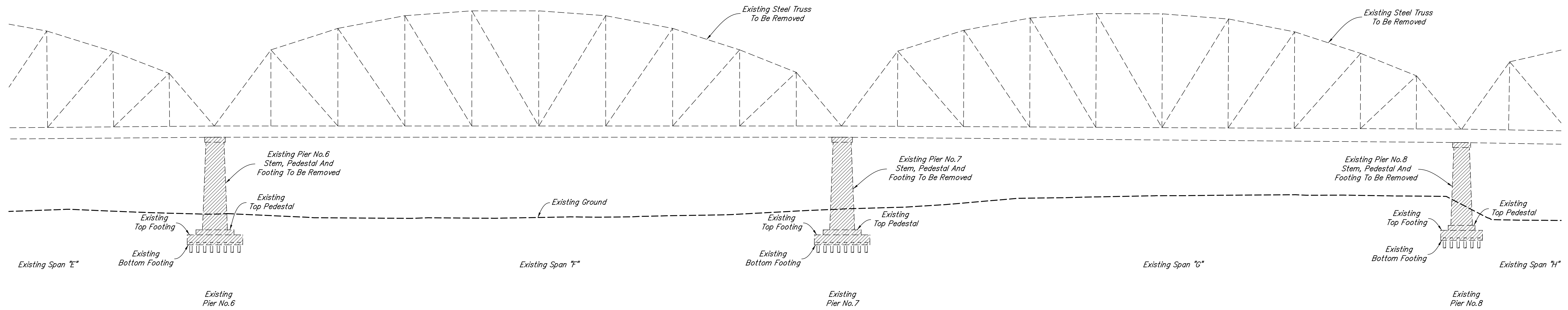
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: DSH DRAWN: DSH
 CHECKED: DAD CHECKED: DAD

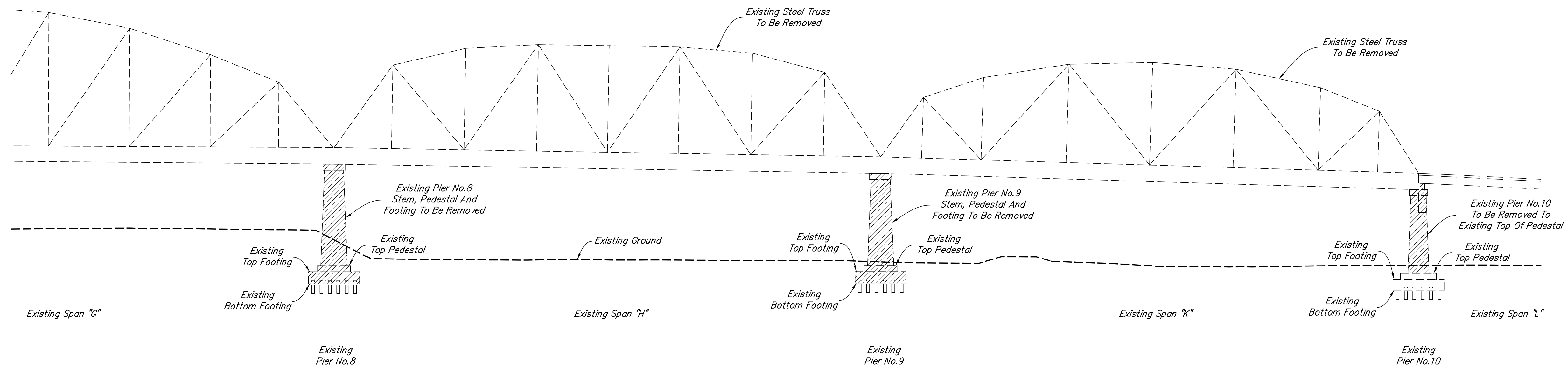
INDIANA
 DEPARTMENT OF TRANSPORTATION

**EXISTING STRUCTURE
 REMOVAL DETAILS**

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 56 of 149
CONTRACT B-33357	PROJECT NO. N881008

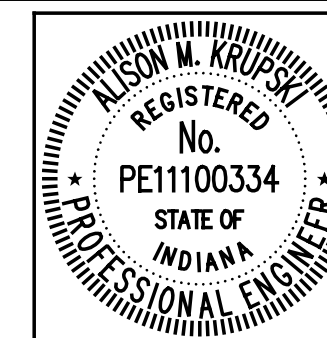


PARTIAL SUBSTRUCTURE REMOVAL ELEVATION



PARTIAL SUBSTRUCTURE REMOVAL ELEVATION

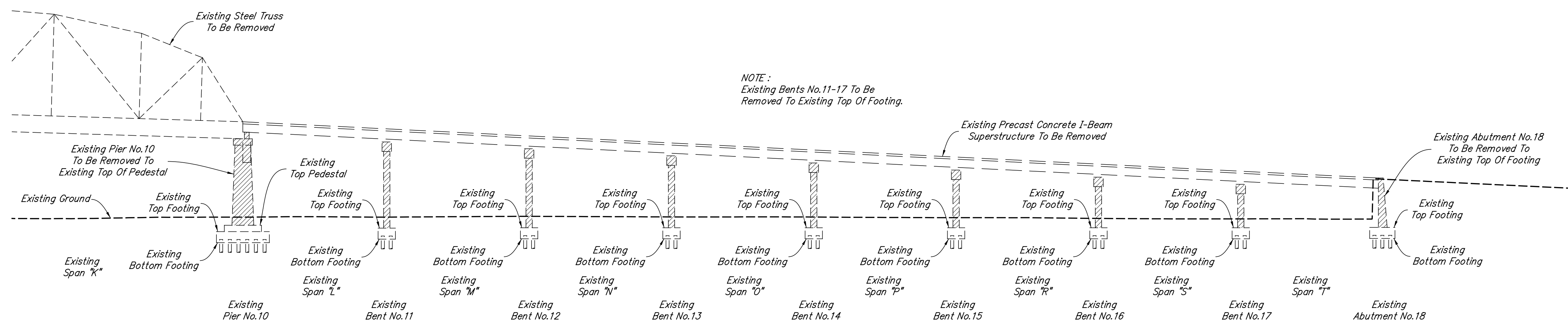
Indicates Limits Of Structure Removal



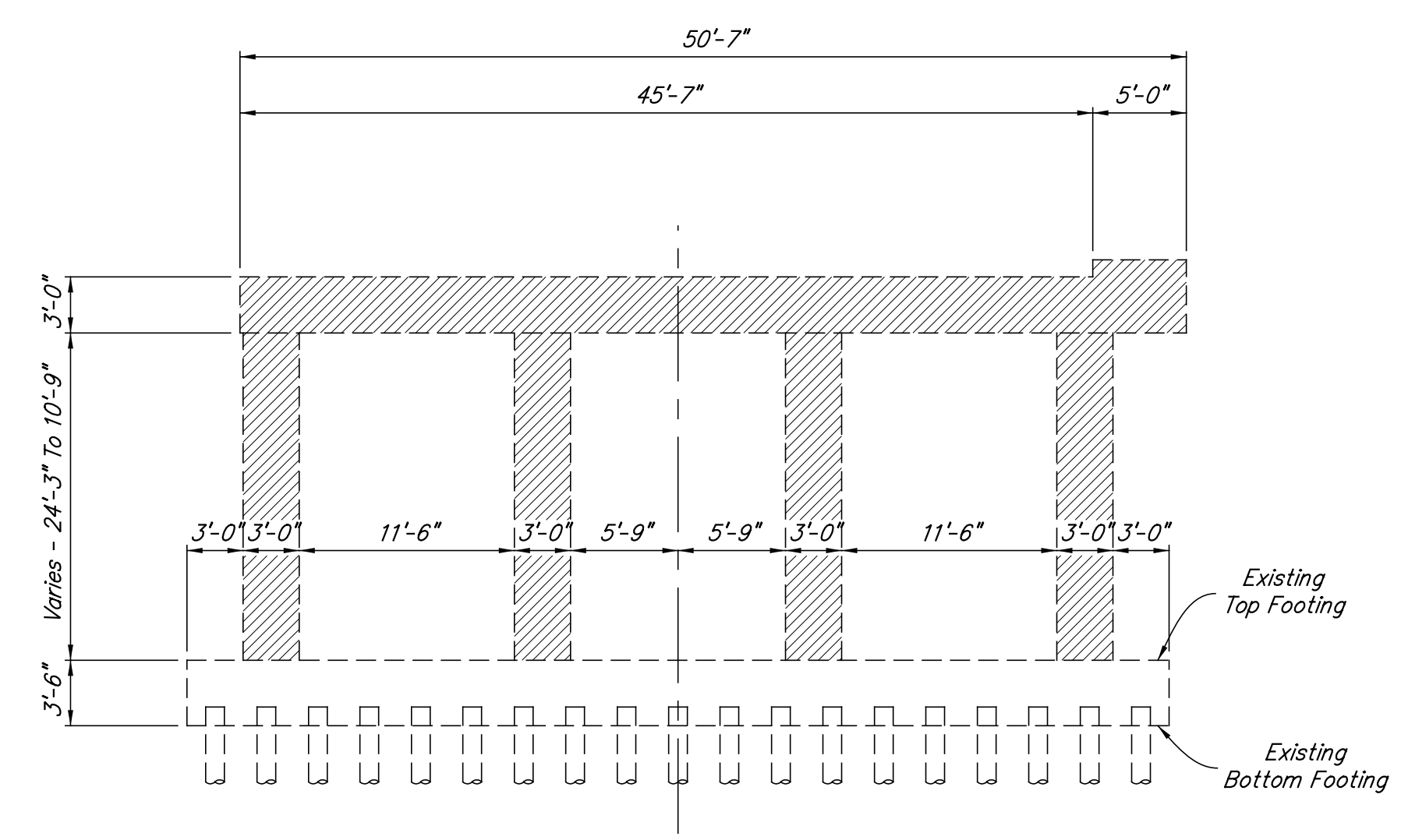
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: DSH DRAWN: DSH
 CHECKED: DAD CHECKED: DAD

INDIANA DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE REMOVAL DETAILS

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 57 of 149
CONTRACT B-33357	PROJECT NO. N881008

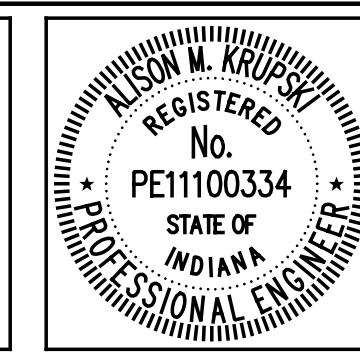


PARTIAL SUBSTRUCTURE REMOVAL ELEVATION



TYPICAL PARTIAL BENT REMOVAL ELEVATION

Indicates Limits Of Structure Removal



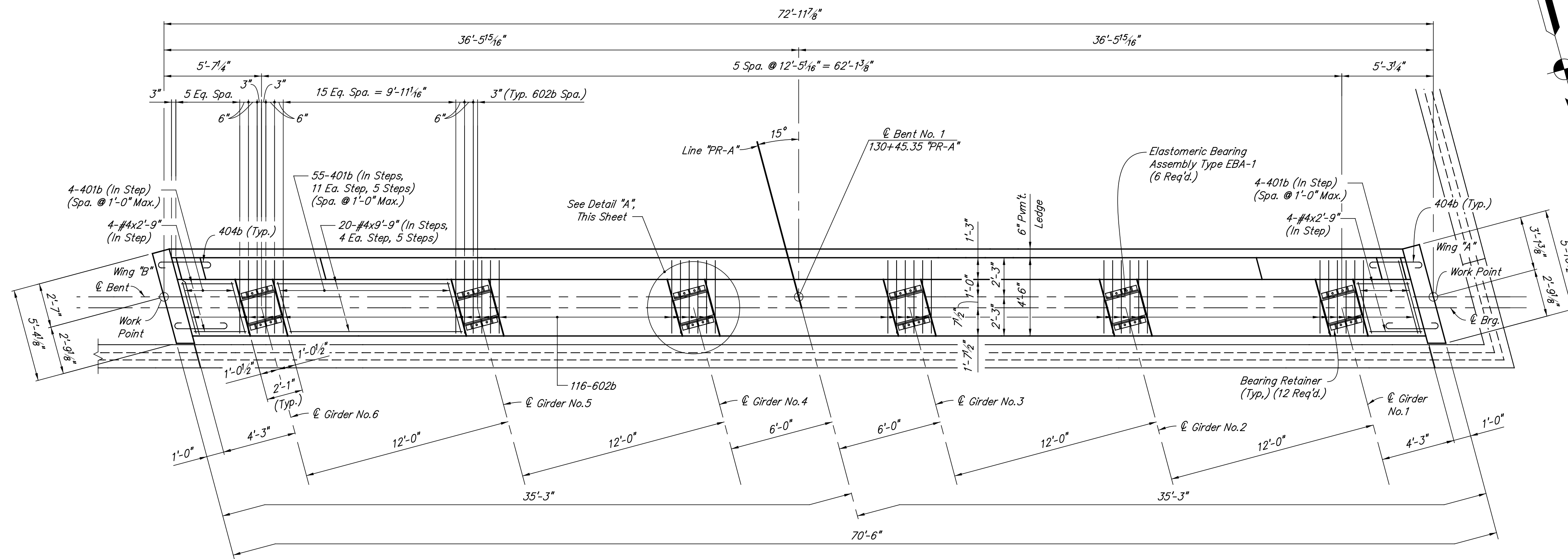
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: DSH DRAWN: DSH
CHECKED: DAD CHECKED: DAD

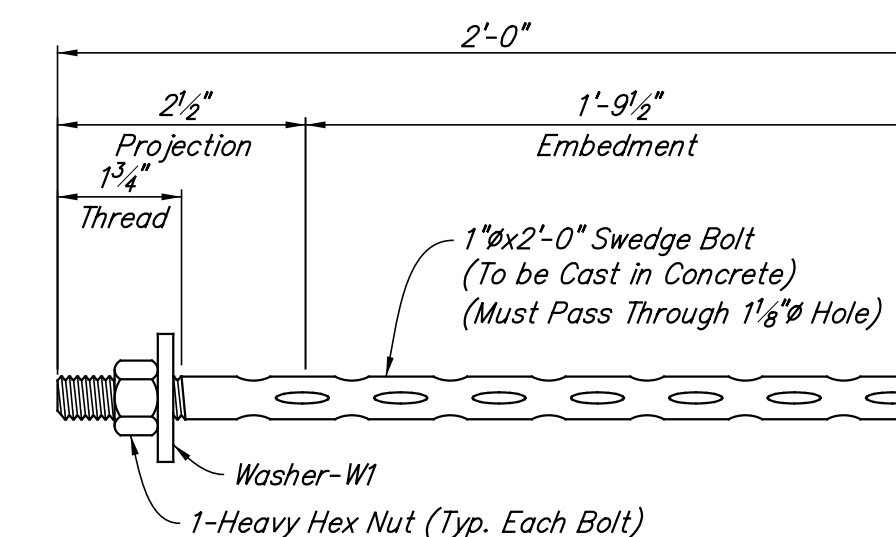
INDIANA
DEPARTMENT OF TRANSPORTATION

**EXISTING STRUCTURE
REMOVAL DETAILS**

HORIZONTAL SCALE 1" = 20'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 58 of 149
CONTRACT B-33357	PROJECT NO. N881008

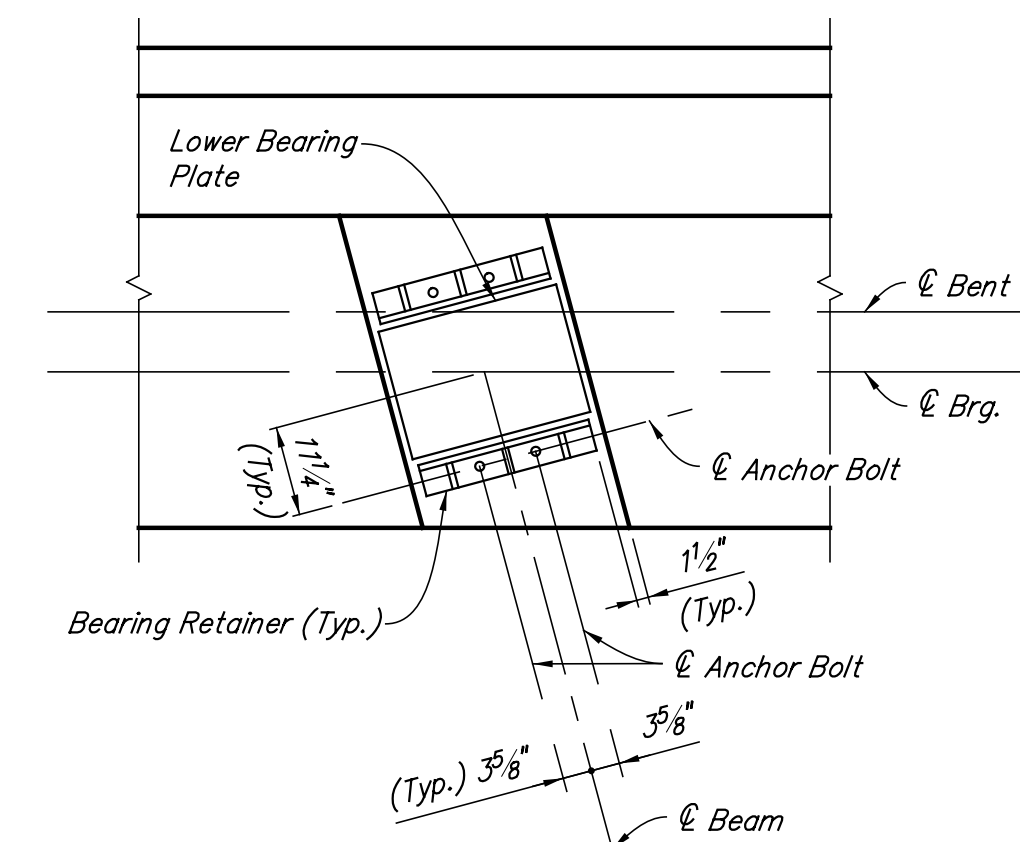


PLAN



ANCHOR BOLT DETAIL

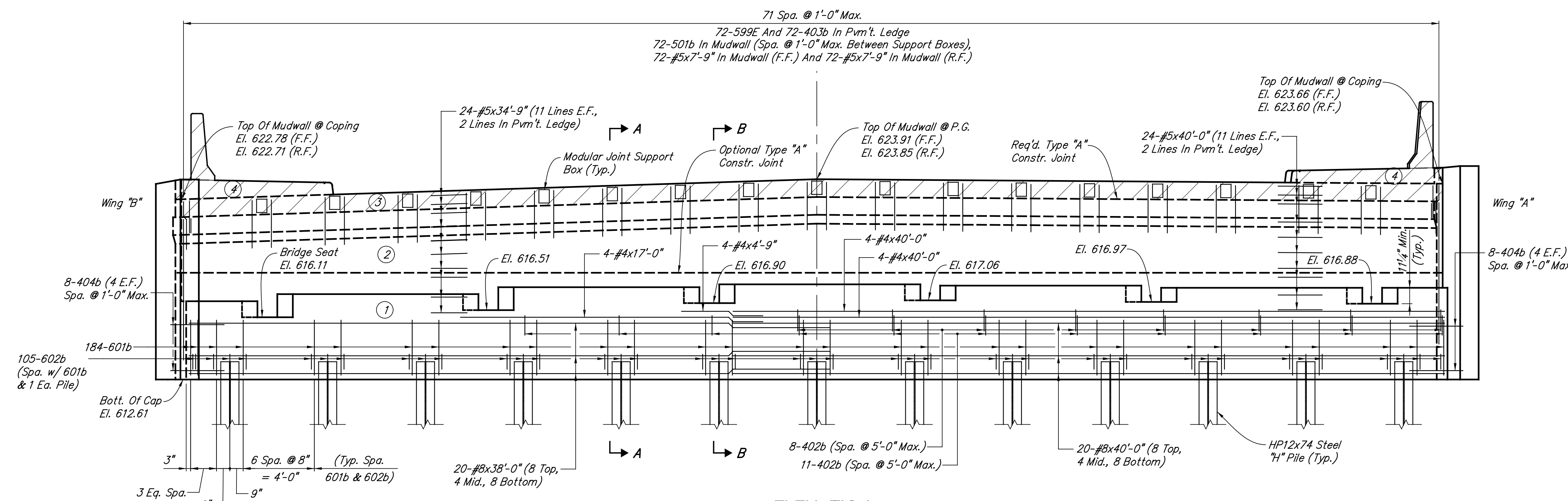
No Scale



DETAIL "A"

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

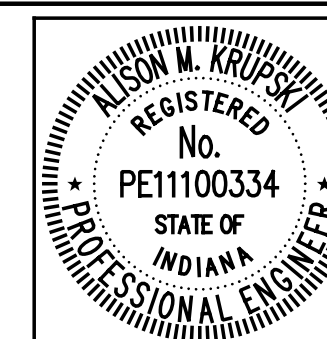
Min. Lap	
#4	1'-8"
#5	2'-0"
#8	5'-5"



ELEVATION

NOTES:

- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
- All reinforcing steel to be epoxy coated.
- Hatched area to be poured with superstructure.
- For Elastomeric Bearing Assembly Details and Bearing Retainer Details, see Sheet No. 90.
- Surface Seal all exposed surfaces of wings, top and front face of mudwall, and exposed surfaces of bent cap.
- For additional details and Bill Of Materials, see Sheet No. 60.
- For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.
- (X) Indicates concrete pour number and sequence of pours.
- For Sections A-A and B-B, see Sheet No. 60.



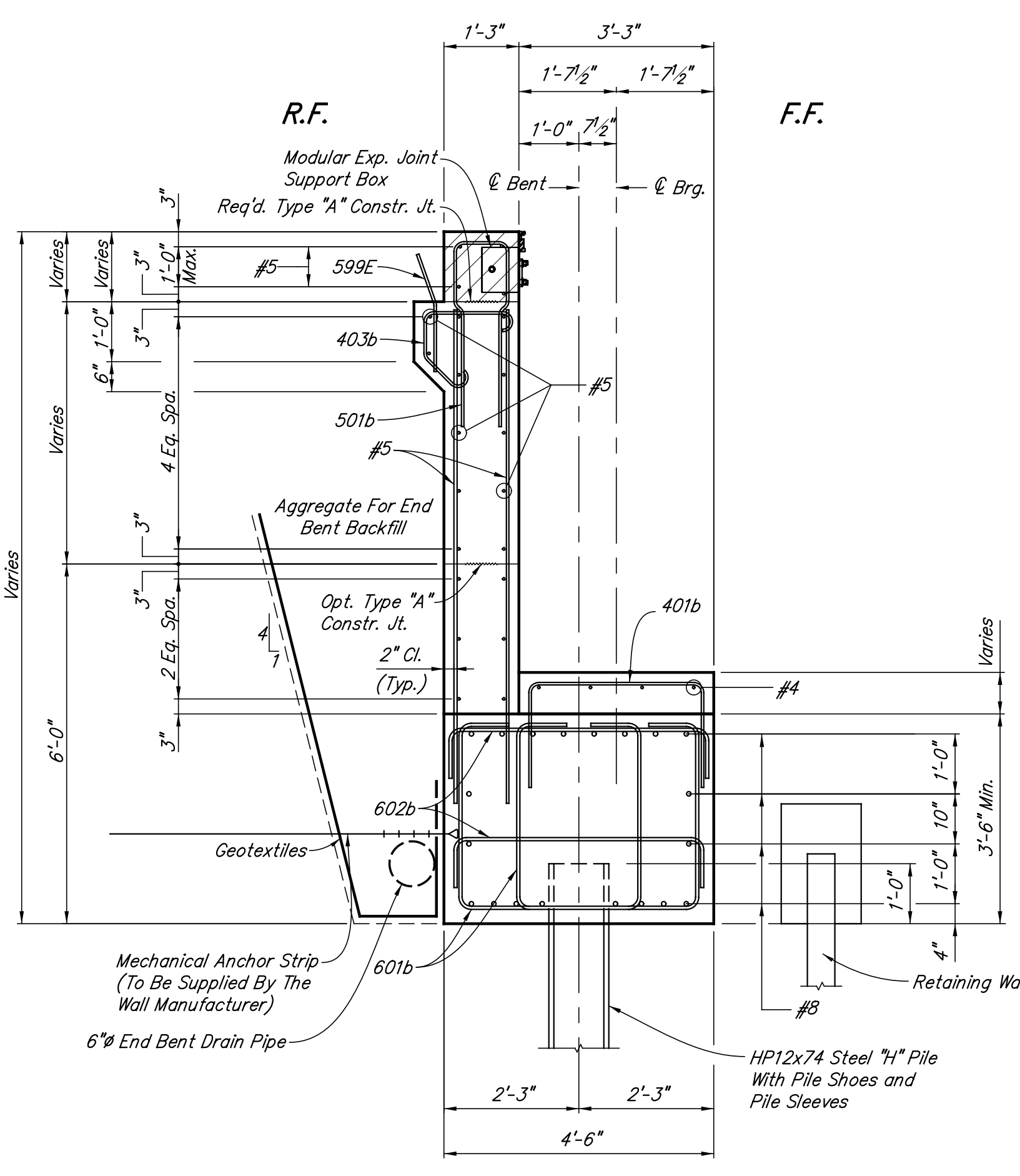
RECOMMENDED FOR APPROVAL
Alison M. Krupski 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: TLH
 CHECKED: RMC CHECKED: AMK

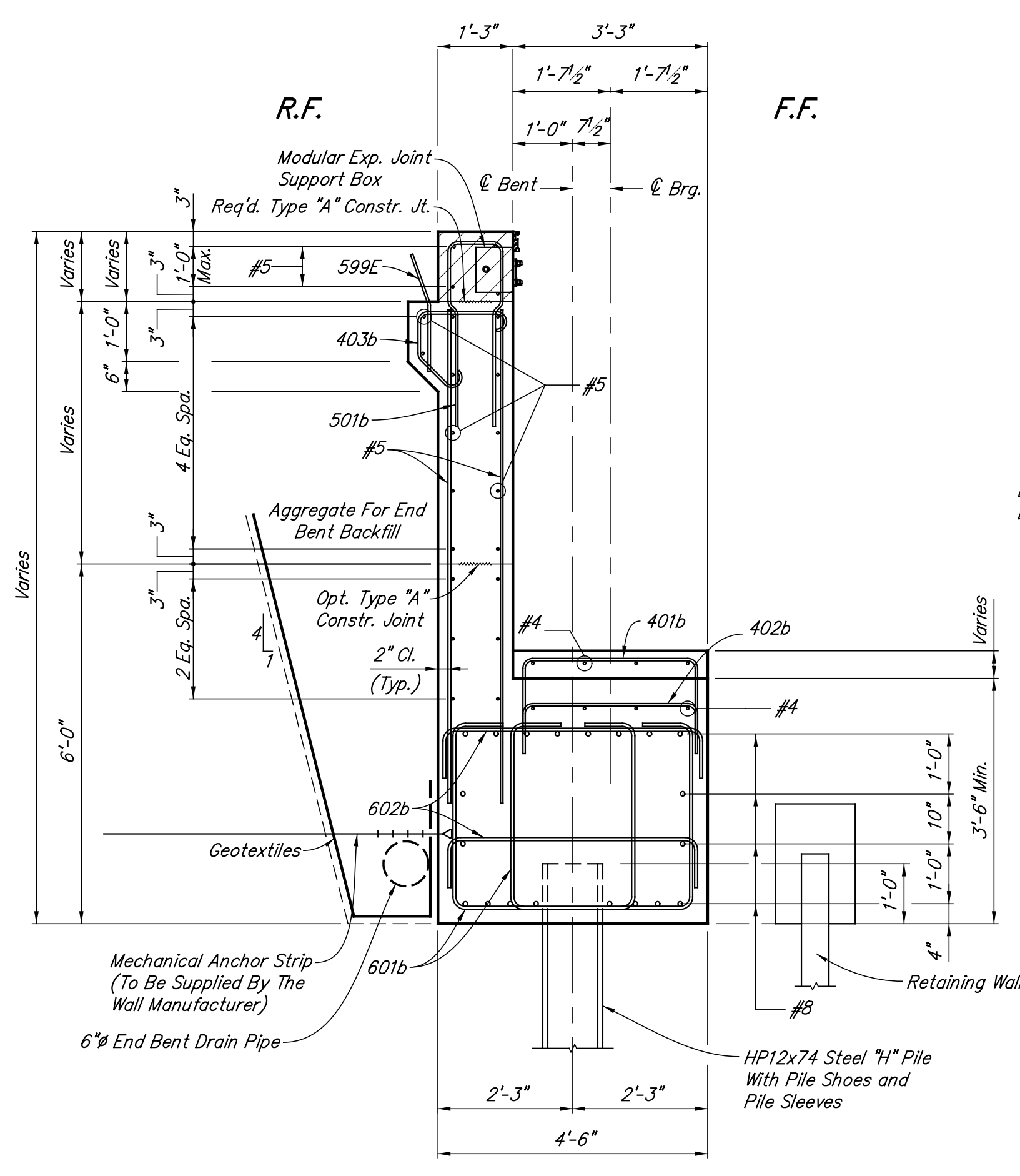
INDIANA
 DEPARTMENT OF TRANSPORTATION

BENT NO. 1 DETAILS

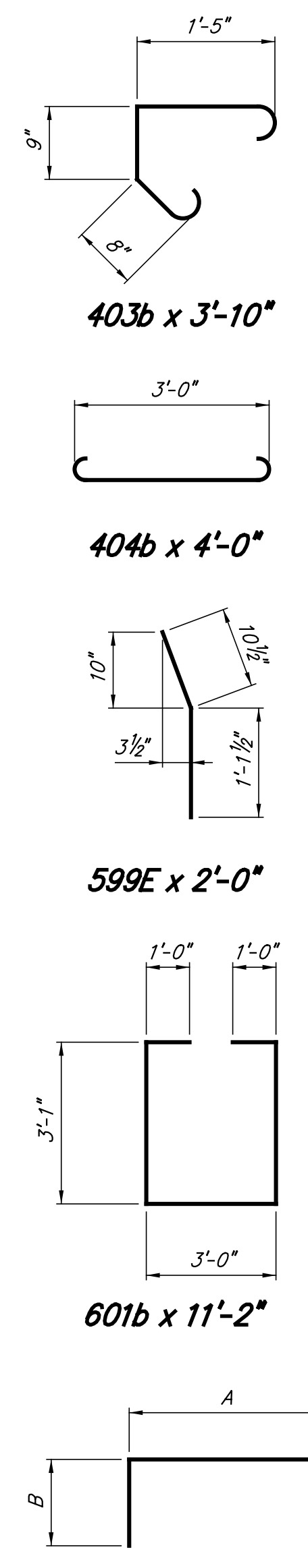
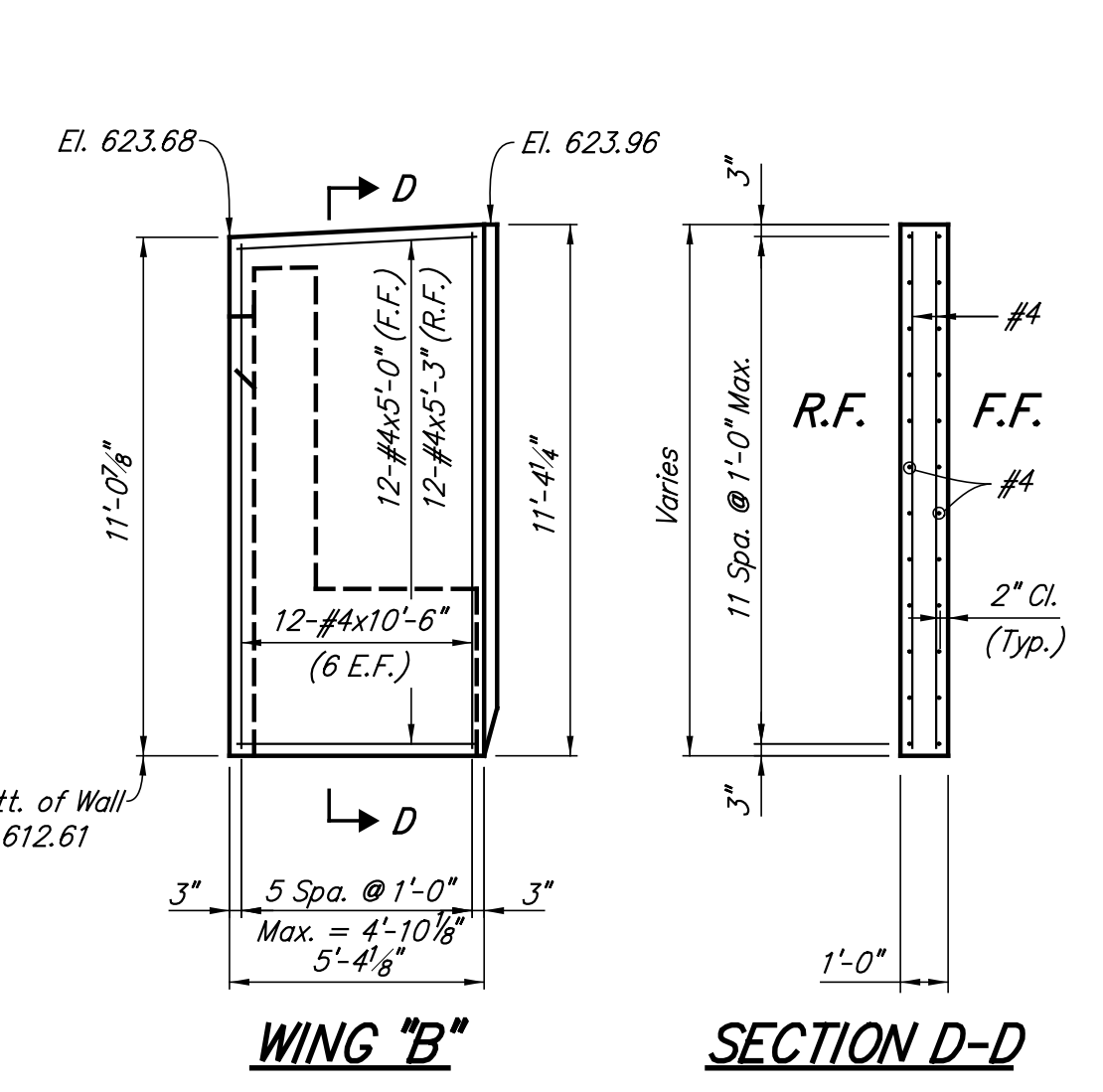
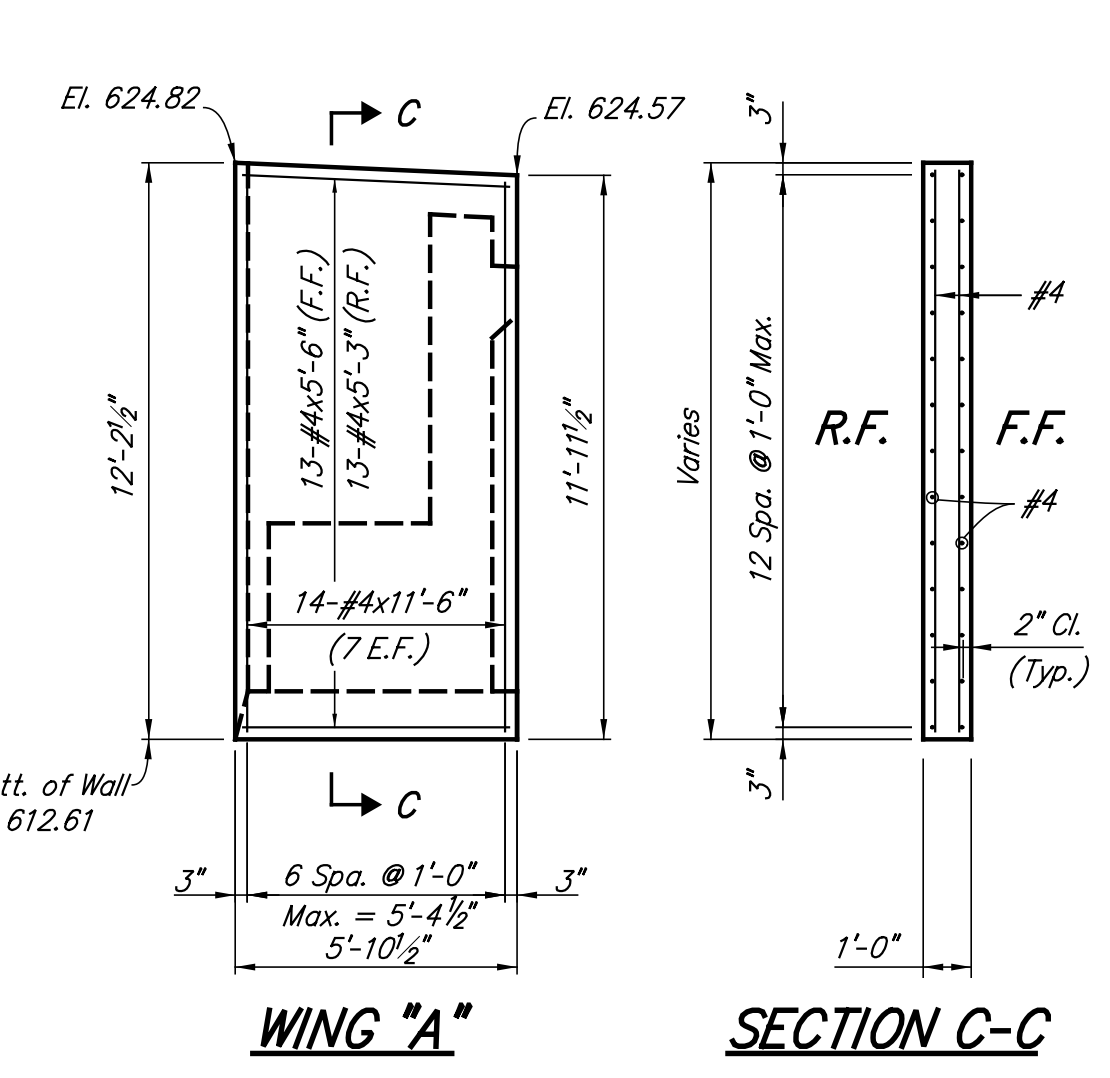
HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 59 of 149
CONTRACT B-33357	PROJECT NO. N881008



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

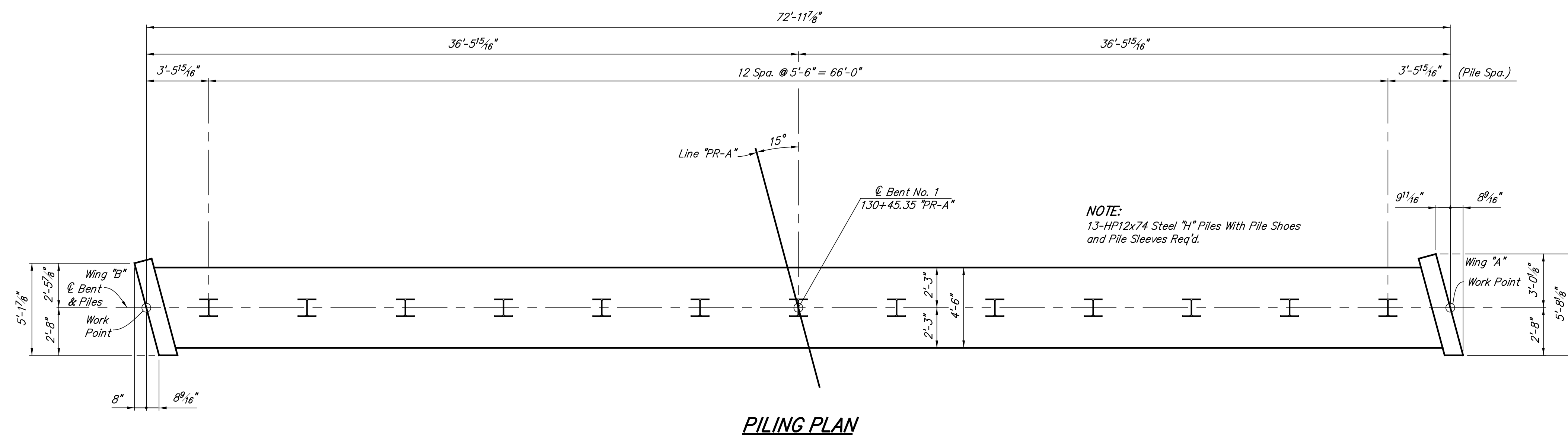


SECTION B-B
Scale: 1/2" = 1'-0"



**BENT NO. 1
BILL OF MATERIALS**

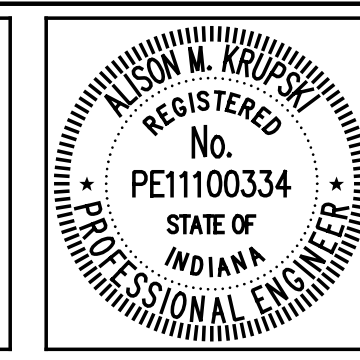
Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#8	20	40'-0"	
#8	20	38'-0"	
Total No. 8			4166
601b	184	11'-2"	
602b	221	6'-2"	
Total No. 6			5134
501b	72	6'-11"	
599E	72	2'-0"	
#5	24	40'-0"	
#5	24	34'-9"	
#5	144	7'-9"	
Total No. 5			3705
401b	63	6'-11"	
402b	19	5'-7"	
403b	72	3'-10"	
404b	16	4'-0"	
#4	8	40'-0"	
#4	4	17'-0"	
#4	14	11'-6"	
#4	12	10'-6"	
#4	20	9'-9"	
#4	13	5'-6"	
#4	25	5'-3"	
#4	12	5'-0"	
#4	4	4'-9"	
#4	8	2'-9"	
Total No. 4			1374
Total Epoxy Coated Reinforcing Steel			14379
Concrete			
Class "A" in Substructure			
Pour No. 1			67.0 Cys
Pour No. 2			14.0 Cys
Total Class "A" in Substructure			81.0 Cys
Class "C" in Superstructure			
Pour No. 3			3.8 Cys
Pour No. 4 (2 @ 0.3 Cys.)			0.6 Cys
Total Class "C" in Superstructure			4.4 Cys
Miscellaneous			
Surface Seal			1180 Sft.
13-Piles, Steel "H", HP12x74			
x 120'-0" Approximate			1560 Lft.
Pile Shoe, HP12x74			13 Each
Pile Sleeves			13 Each



PILING PLAN

NOTE:
13-HP12x74 Steel "H" Piles With Pile Shoes and Pile Sleeves Req'd.

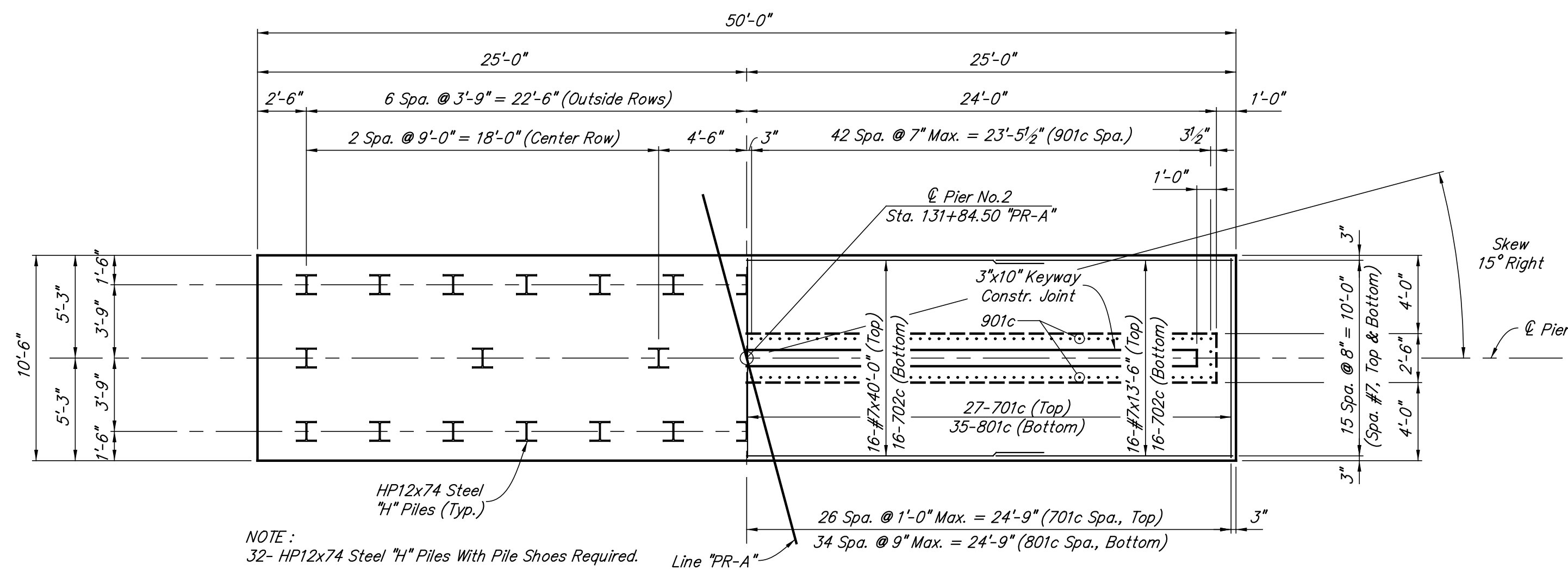
NOTES:
For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be epoxy coated.
Hatched area to be poured with superstructure.
Surface Seal all exposed surfaces of wings, top and front face of mudwall, and exposed surfaces of bent cap.
For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.



RECOMMENDED FOR APPROVAL: **Alison M. Krupski**, 6/1/2012 DATE
DESIGNED: AMK DRAWN: TLH
CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
BENT NO. 1 DETAILS

HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 60 of 149
CONTRACT B-33357	PROJECT NO. N881008

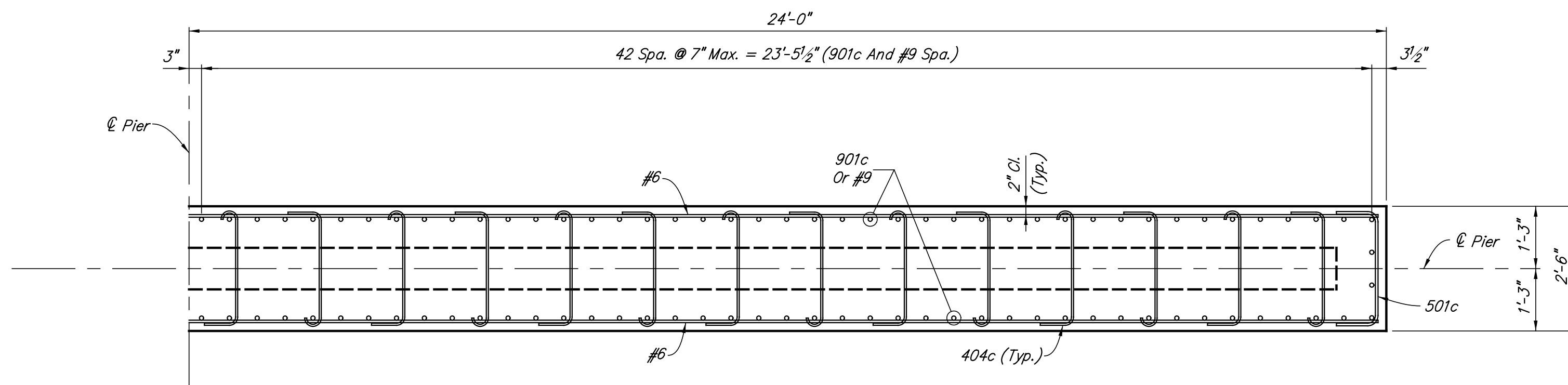


NOTE: 32- HP12x74 Steel "H" Piles With Pile Shoes Required.

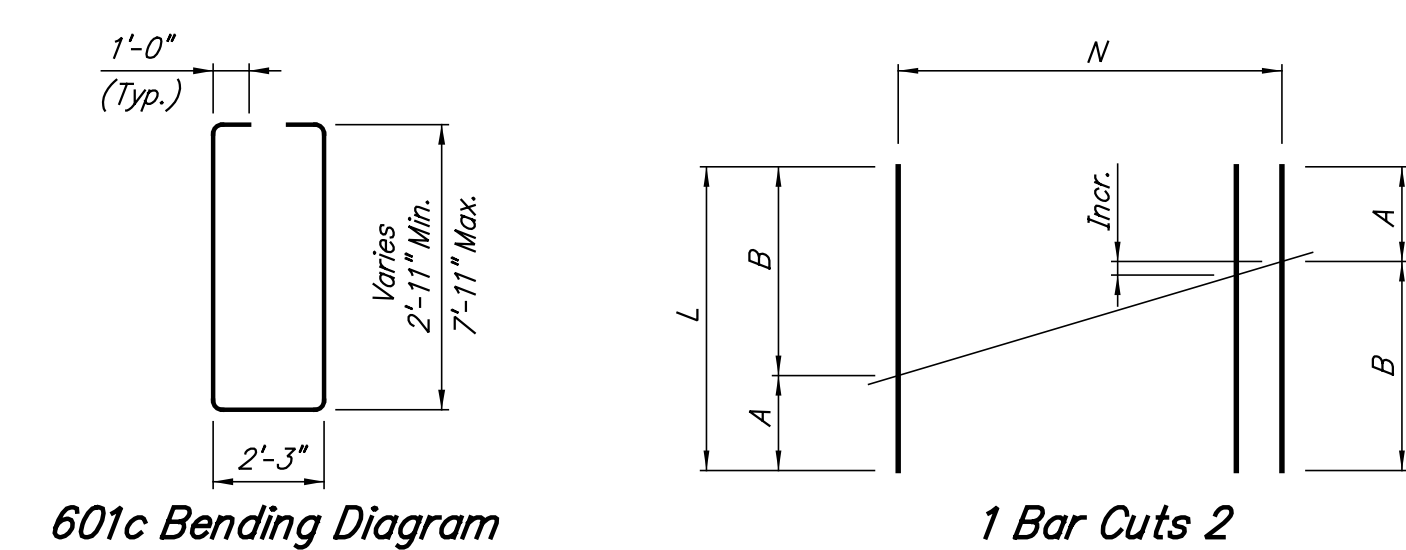
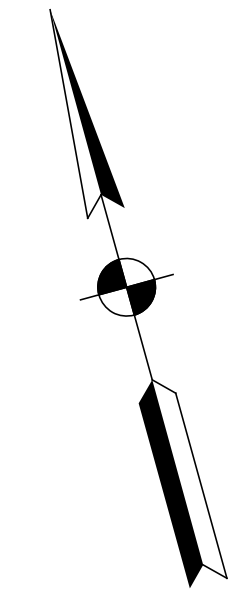
Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

FOOTING PLAN

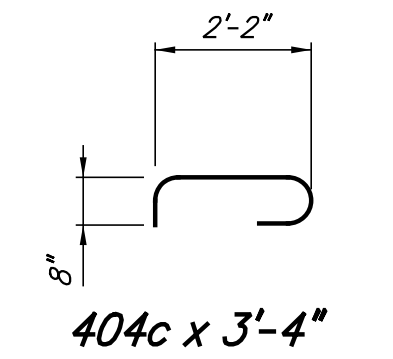
Min. Lap	
#5	2'-5"
#7	3'-10"
#9	6'-4"
#10	10'-1"



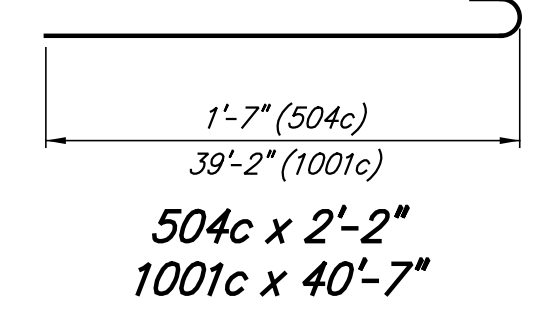
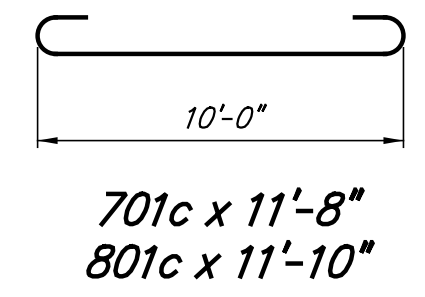
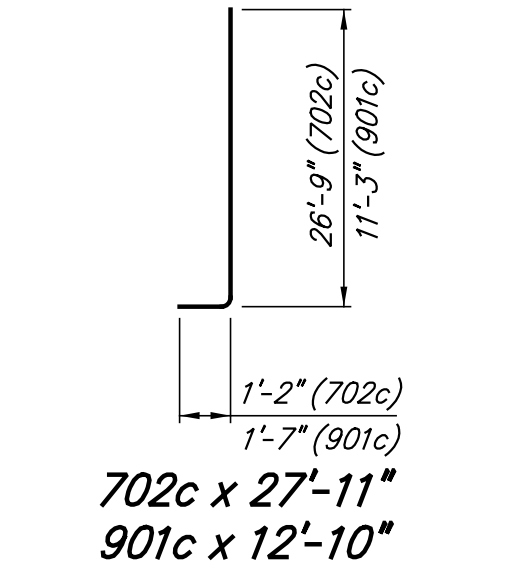
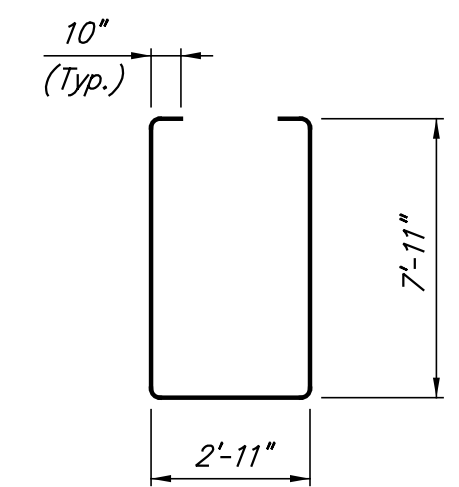
SECTION C-C
Scale: 1/2" = 1'-0"



Mark	L	A	B	Incr.	N
502c	38'-6"	11'-6"	27'-0"	3'-10 1/2"	5
601c	30'-2"	10'-1"	20'-1"	6"±	21



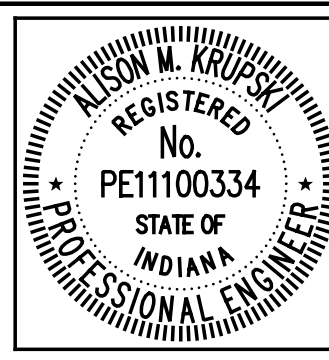
Mark	A	B	Length
401c	2'-11"	8"	4'-3"
402c	2'-11"	1'-2"	5'-3"
405c	2'-11"	2'-0"	6'-11"
501c	2'-2"	10"	3'-10"



**PIER NO.2
BILL OF MATERIALS**

Plain Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
1001c	18	40'-7"	3144
Total No. 10			
901c #9	176	12'-10"	20246
Total No. 9			
801c	69	11'-10"	2181
Total No. 8			
701c	53	11'-8"	4840
702c	32	27'-11"	
#7	16	40'-0"	
#7	16	13'-6"	
Total No. 7			
601c	42	30'-2"	5089
#6	42	40'-0"	
#6	42	10'-6"	
Total No. 6			
501c	42	3'-10"	2580
502c	5	38'-6"	
503c	48	20'-5"	
504c	104	2'-2"	
#5	16	40'-0"	
#5	6	30'-9"	
#5	8	11'-3"	
Total No. 5			
401c	58	4'-3"	2104
402c	39	5'-3"	
404c	588	3'-4"	
405c	61	6'-11"	
#4	4	30'-0"	
#4	20	9'-6"	
#4	2	2'-0"	
#4	2	1'-3"	
Total No. 4			
Total Plain Reinforcing Steel			
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			41.1 Cys
Pour No. 3			73.4 Cys
Total Class "A" in Substructure			158.9 Cys
Class "B" in Footing			121.5 Cys
Miscellaneous			
Surface Seal			1520 Sft.
31-Piles, Steel "H", HP12x74 x 95'-0" Approximate			2945 Lft.
1-Test Pile, Dynamic, Production x 105'-0" Approximate			105 Lft.
Pile Shoe, HP12x74			32 Each

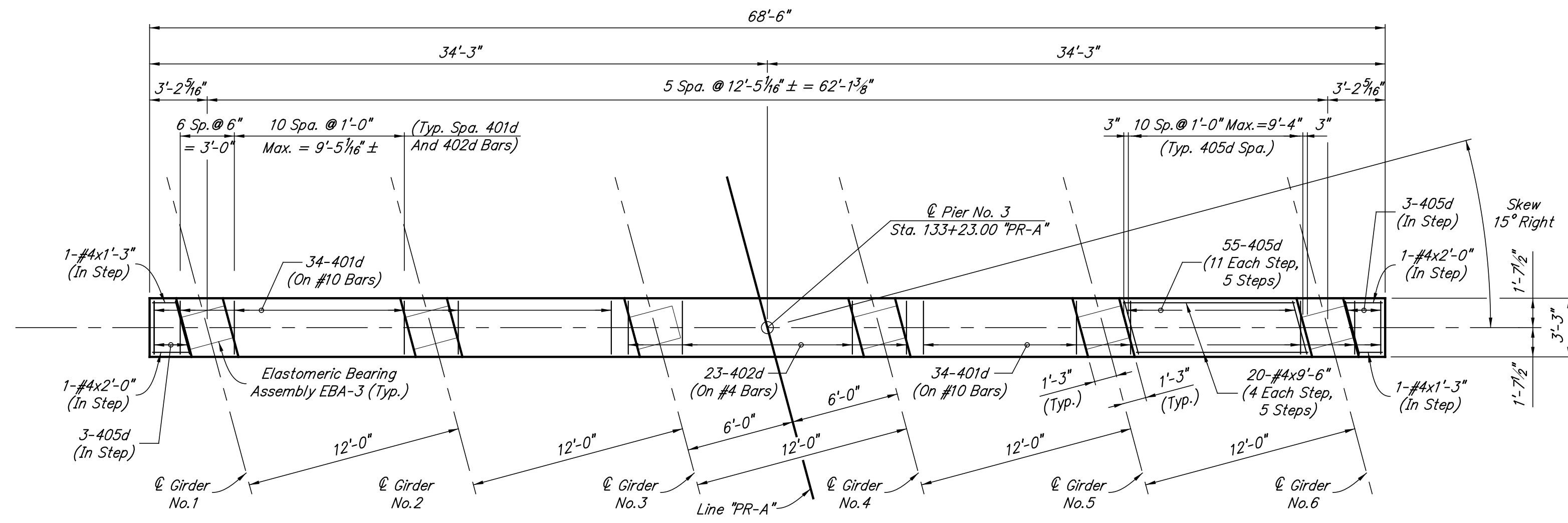
NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



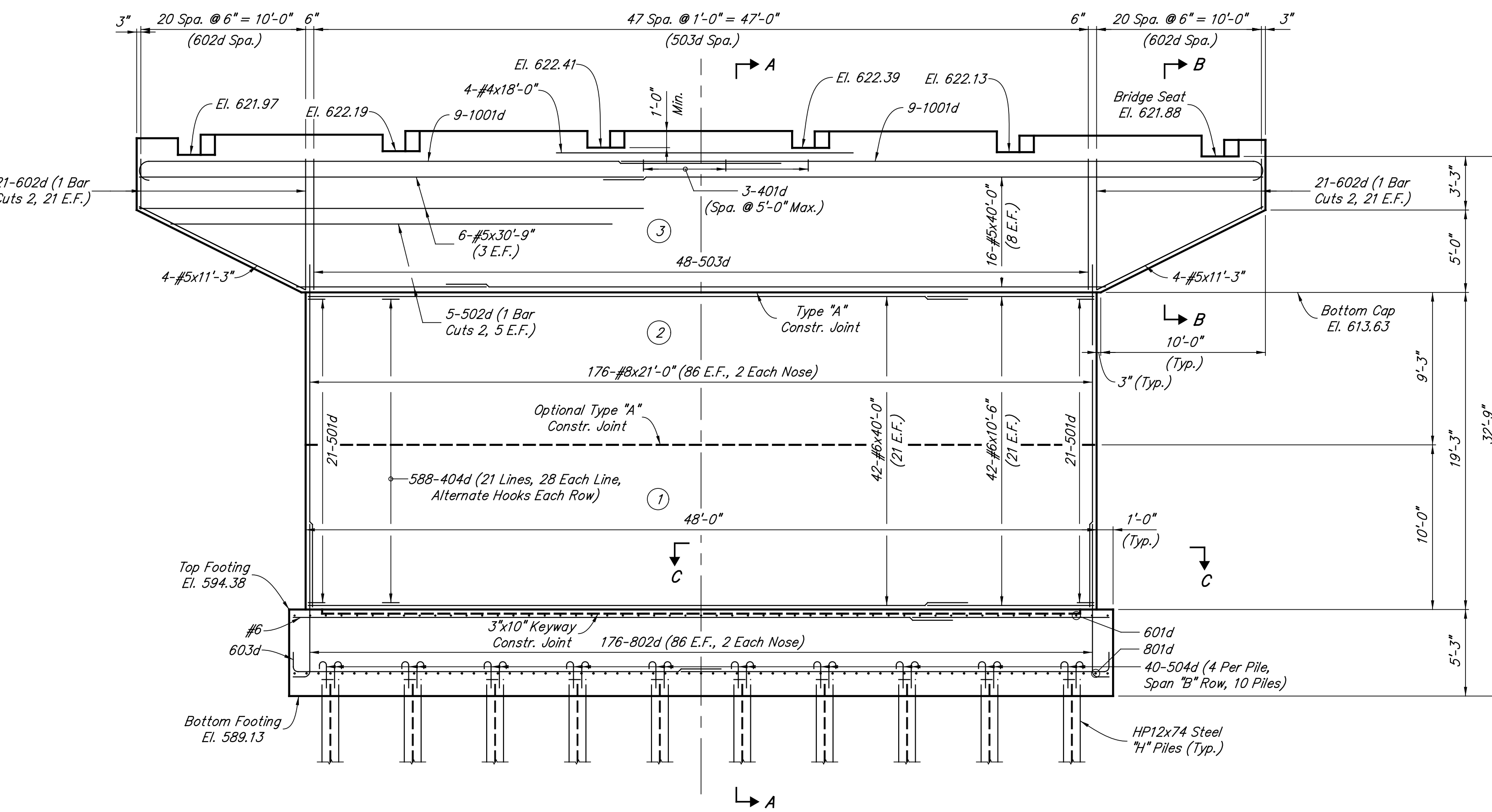
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION
PIER NO.2 DETAILS

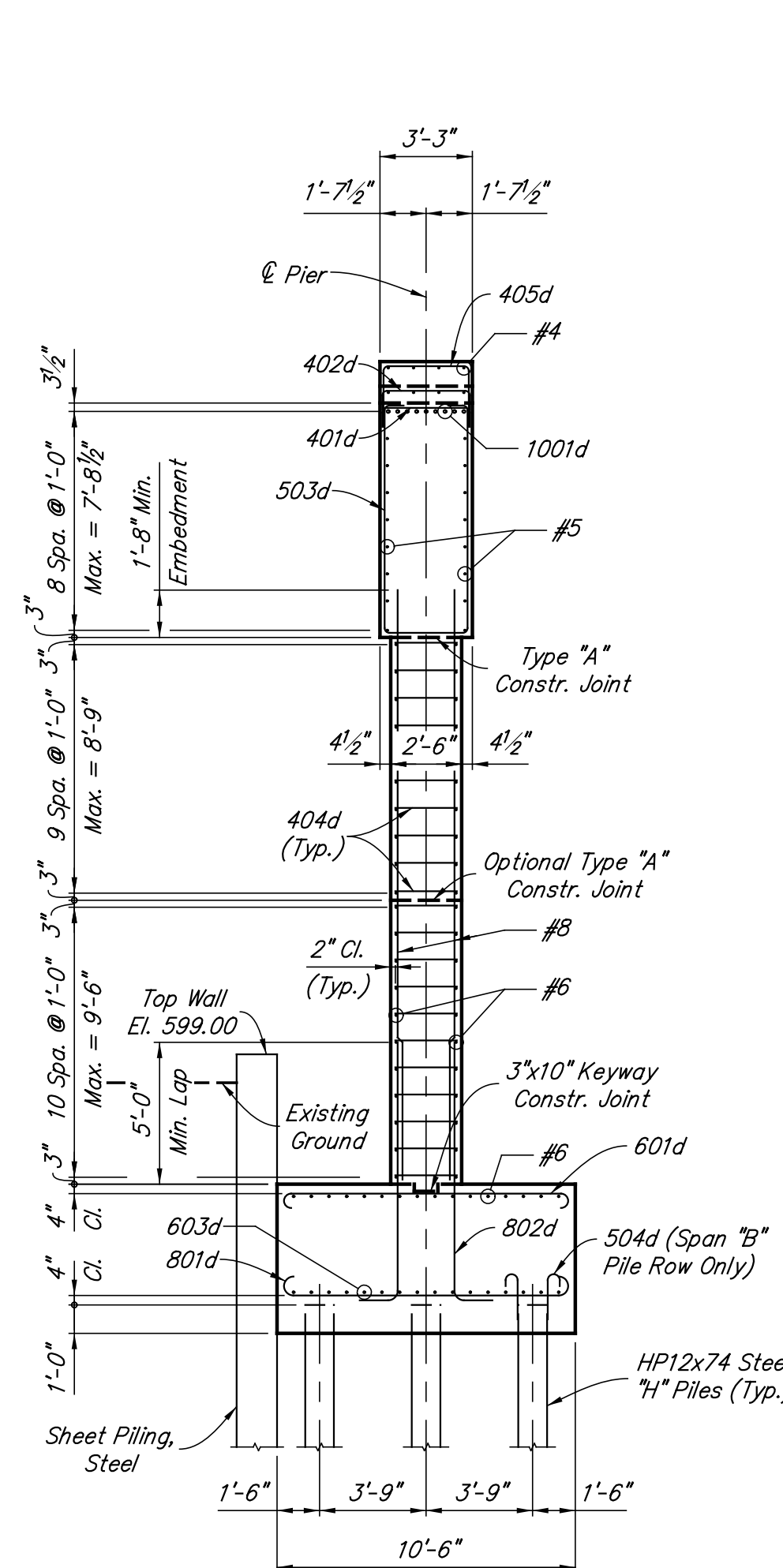
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	62 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



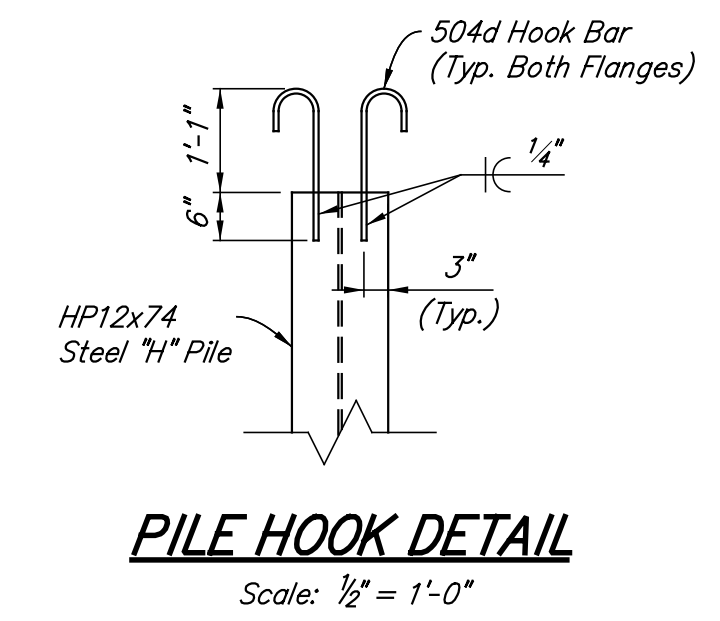
CAP PLAN



ELEVATION



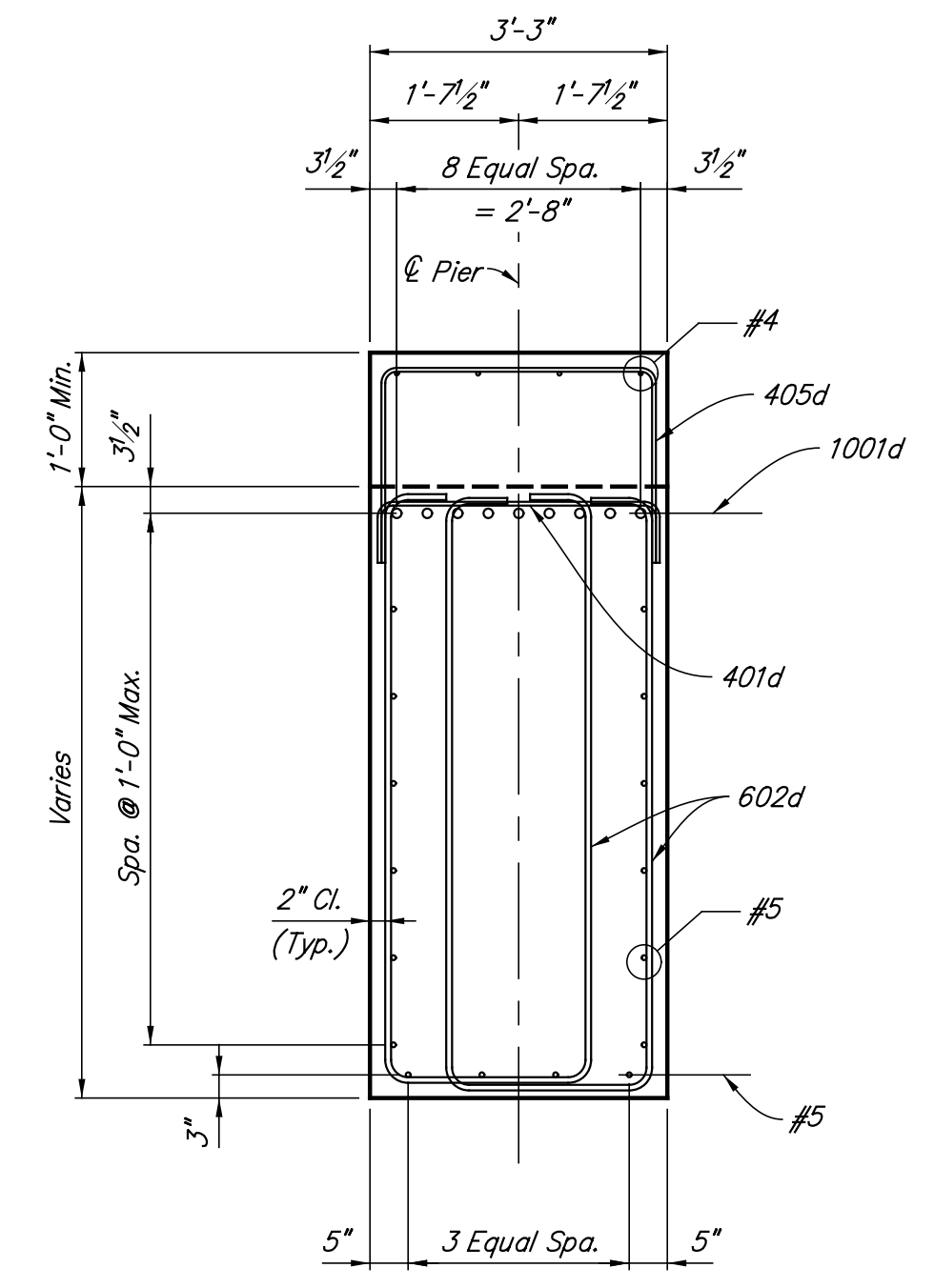
SECTION A-A



PILE HOOK DETAIL

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

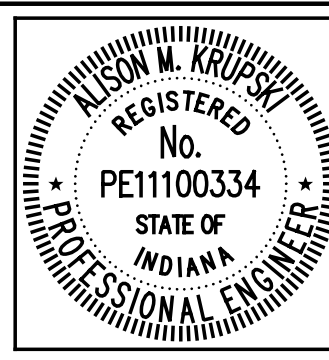
Min. Lap	
#5	2'-5"
#6	2'-10"
#8	5'-0"
#10	10'-1"



SECTION B-B

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

- NOTES:
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be plain.
 - For Footing Plan, Section C-C, bar bending details and Bill Of Materials, see Sheet No.64.
 - Surface seal top and vertical surfaces of pier cap.
 - For elastomeric bearing assembly details, see Sheet No.90.
 - For pier backfill limits, see Standard Drawing E211-BFIL-03.
 - (*) Indicates concrete pour number.



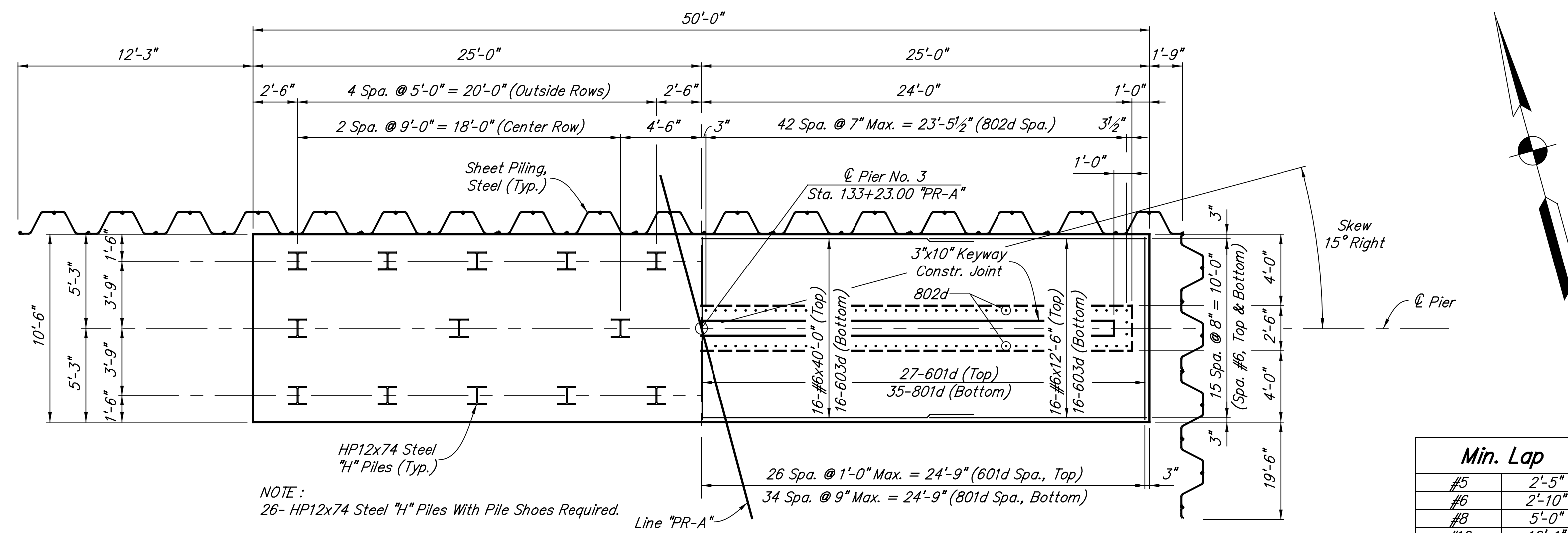
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION

PIER NO.3 DETAILS

HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 63 of 149
CONTRACT B-33357	PROJECT NO. N881008

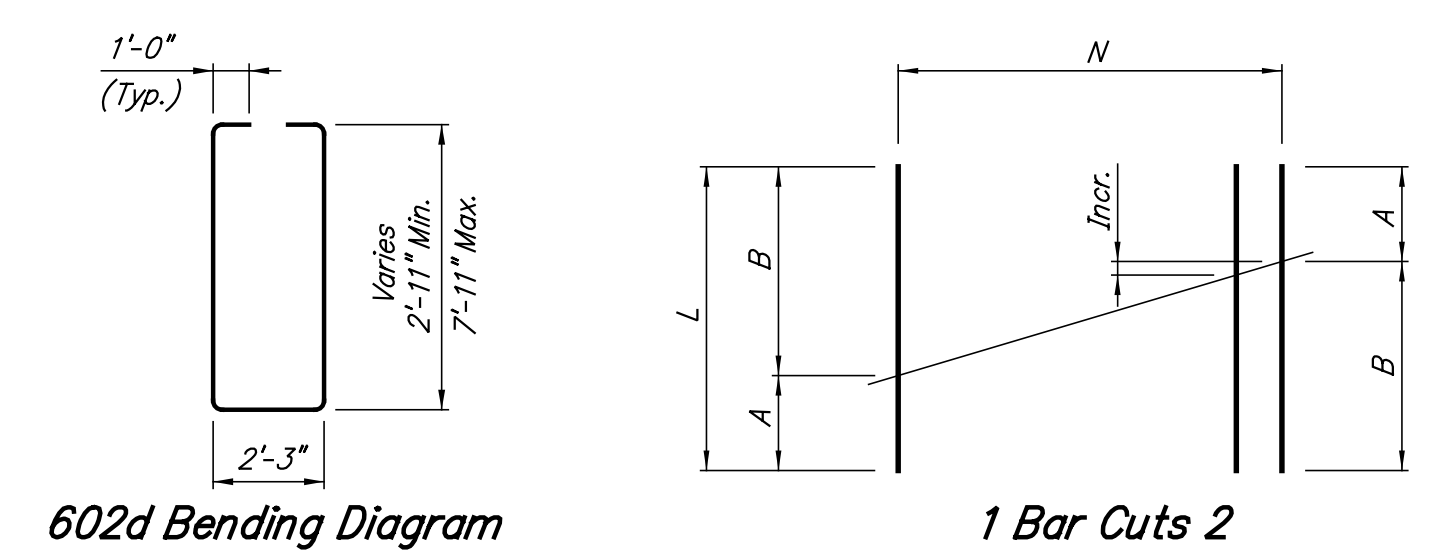


NOTE:
26- HP12x74 Steel "H" Piles With Pile Shoes Required.

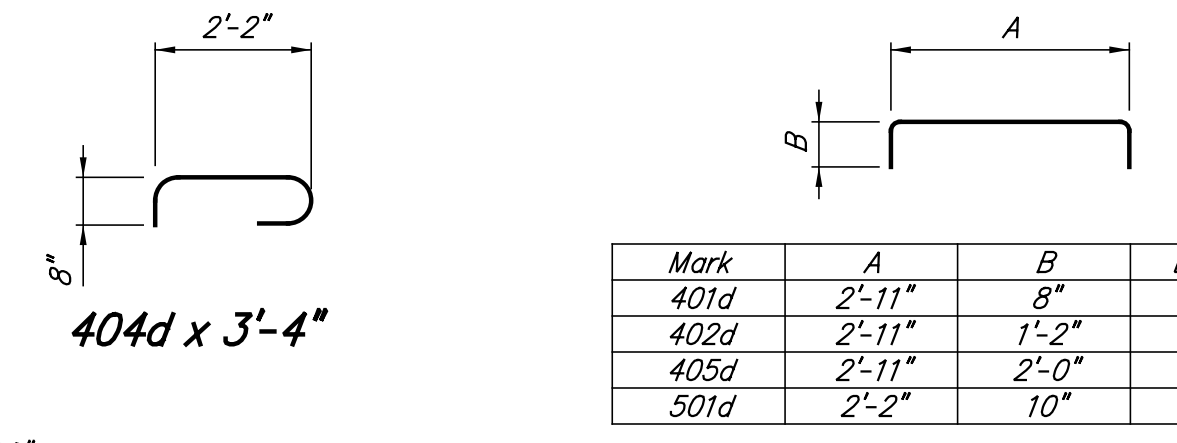
Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

FOOTING PLAN

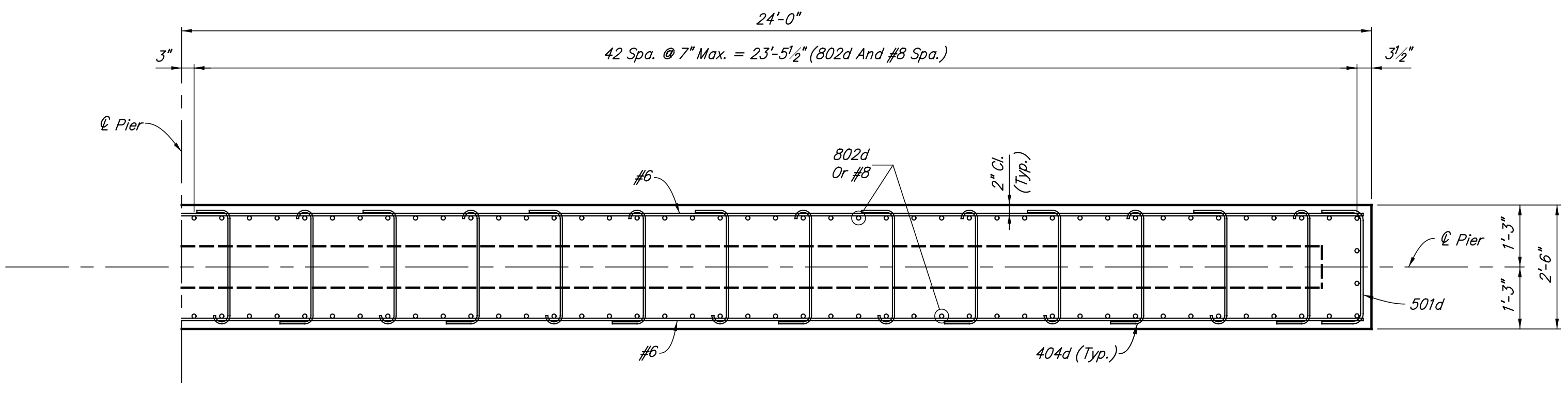
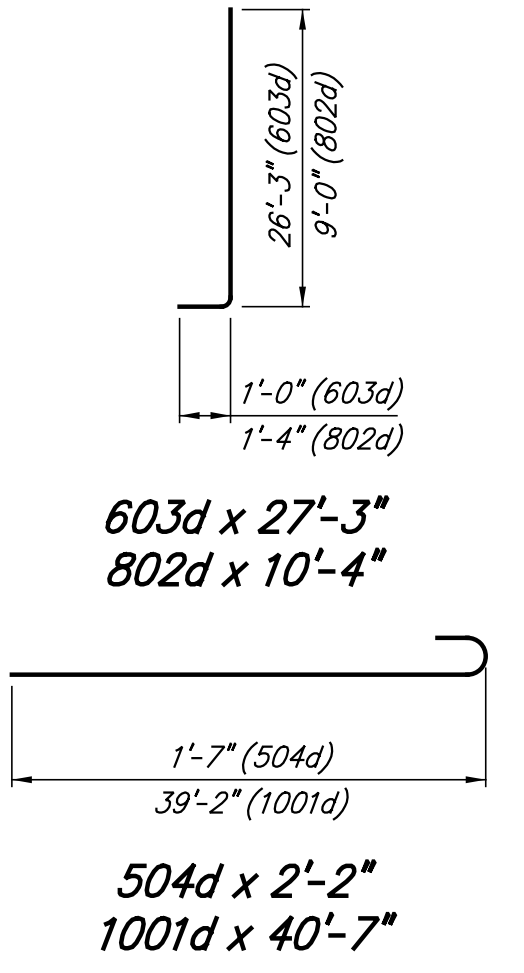
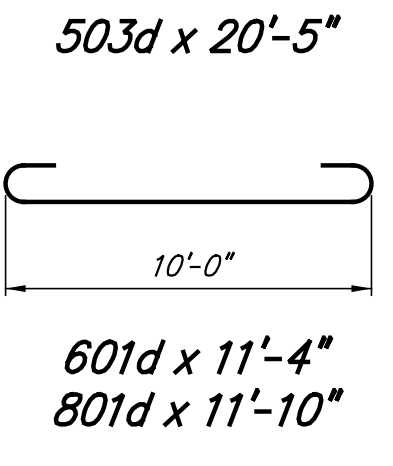
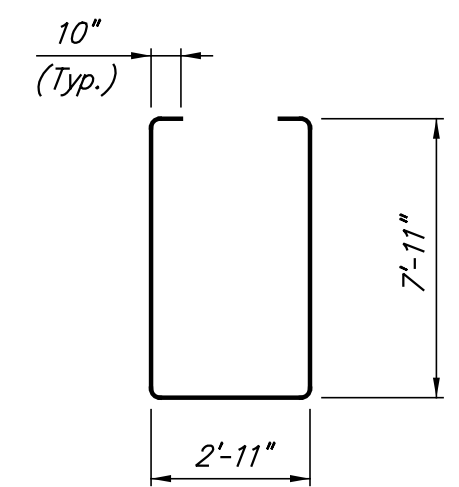
Min. Lap	
#5	2'-5"
#6	2'-10"
#8	5'-0"
#10	10'-1"



Mark	L	A	B	Incr.	N
502d	38'-6"	11'-6"	27'-0"	3'-10 1/2"	5
602d	30'-2"	10'-1"	20'-1"	6"±	21



Mark	A	B	Length
401d	2'-11"	8"	4'-3"
402d	2'-11"	1'-2"	5'-3"
405d	2'-11"	2'-0"	6'-11"
501d	2'-2"	10"	3'-10"

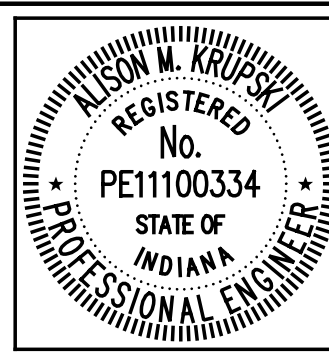


SECTION C-C
Scale: 1/2" = 1'-0"

**PIER NO.3
BILL OF MATERIALS**

Size And Mark	Plain Reinforcing Steel No. of Bars	Length (Feet)	Weight (Lbs.)
1001d	18	40'-7"	3144
Total No. 10			
801d	69	11'-10"	16905
802d	176	10'-4"	
#8	176	21'-0"	
Total No. 8			
601d	53	11'-4"	8563
602d	42	30'-2"	
603d	32	27'-3"	
#6	58	40'-0"	
#6	16	12'-6"	
#6	42	10'-6"	
Total No. 6			
501d	42	3'-10"	2436
502d	5	38'-6"	
503d	48	20'-5"	
504d	40	2'-2"	
#5	16	40'-0"	
#5	6	30'-9"	
#5	8	11'-3"	
Total No. 5			
401d	71	4'-3"	2053
402d	23	5'-3"	
404d	588	3'-4"	
405d	61	6'-11"	
#4	4	18'-0"	
#4	20	9'-6"	33101
#4	2	2'-0"	
#4	2	1'-3"	
Total No. 4			
Total Plain Reinforcing Steel			
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			41.1 Cys
Pour No. 3			72.5 Cys
Total Class "A" in Substructure			158.0 Cys
Class "B" in Footing			102.1 Cys
Miscellaneous			
Surface Seal			1510 Sft.
26-Piles, Steel "H", HP12x74 x 95'-0" Approximate			2470 Lft.
Pile Shoe, HP12x74			26 Each

NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



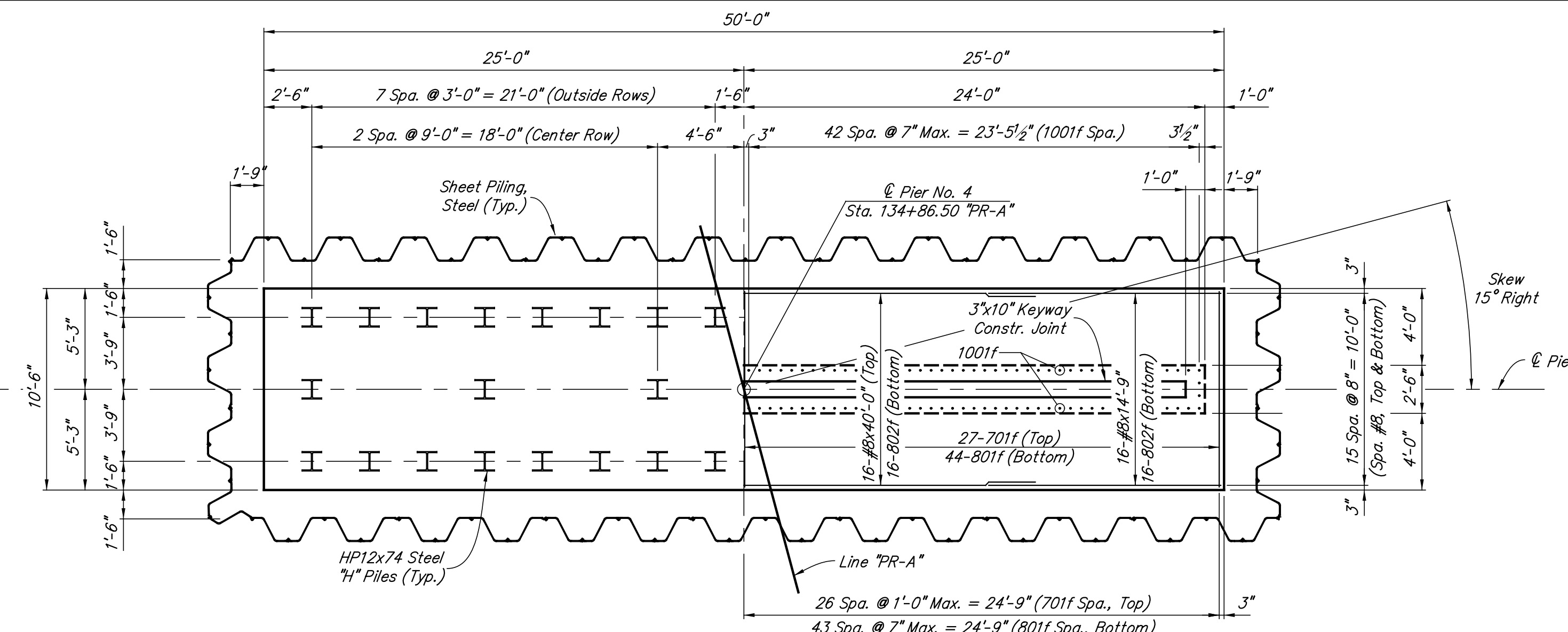
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION
PIER NO.3 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	64 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

**PIER NO. 4
BILL OF MATERIALS**

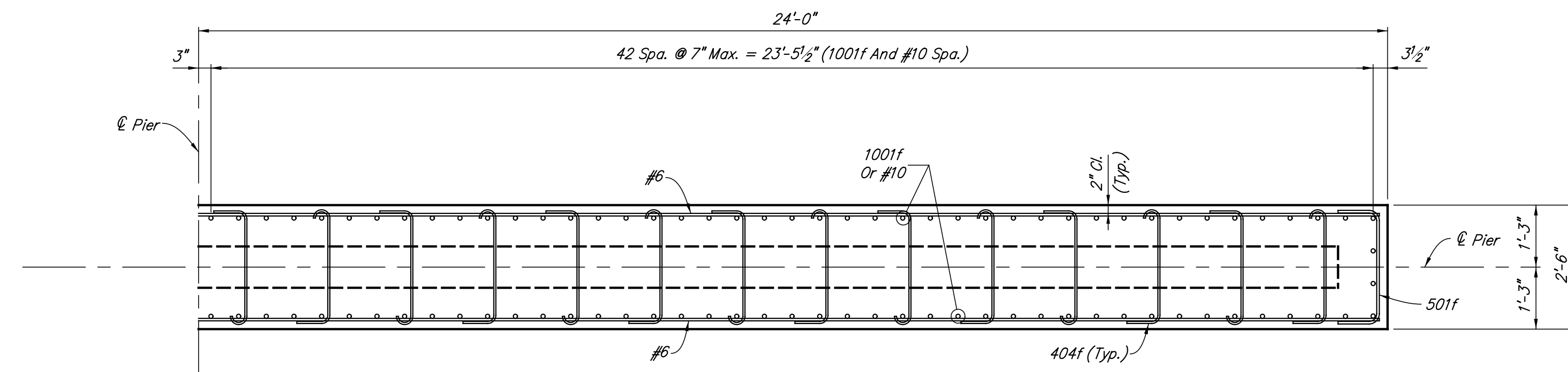
Size And Mark	Plain Reinforcing Steel No. of Bars	Length (Feet)	Weight (Lbs.)
1001f	176	17'-4"	
1002f	28	40'-7"	
#10	176	23'-3"	
Total No. 10			35625
801f	87	11'-10"	
802f	32	28'-8"	
#8	16	40'-0"	
#8	16	14'-9"	
Total No. 8			7537
701f	53	11'-8"	
Total No. 7			1264
601f	42	30'-2"	
#6	46	40'-0"	
#6	46	10'-6"	
Total No. 6			5393
501f	46	3'-10"	
502f	6	41'-5"	
503f	48	20'-5"	
504f	128	2'-2"	
#5	16	40'-0"	
#5	4	30'-9"	
#5	8	11'-3"	
Total No. 5			2645
401f	82	4'-3"	
402f	21	5'-3"	
404f	644	3'-4"	
#4	4	16'-0"	
Total No. 4			1784
Total Plain Reinforcing Steel			54248
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			48.9 Cys
Pour No. 3			64.0 Cys
Total Class "A" in Substructure			157.3 Cys
Class "B" in Footing			
			131.3 Cys
Miscellaneous			
Surface Seal			1310 Sft.
37-Piles, Steel #1, HP12x74 x 95'-0" Approximate			3515 Lft.
1-Test Pile, Dynamic, Production x 105'-0" Approximate			105 Lft.
Pile Shoe, HP 12x74			38 Each



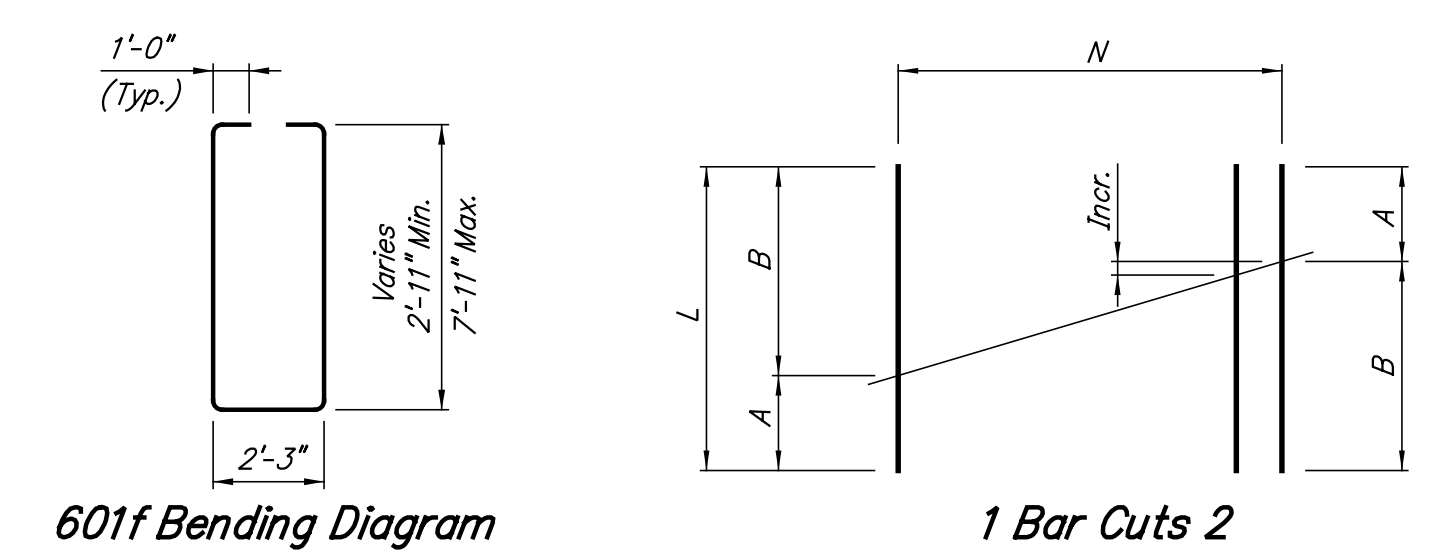
NOTE:
38- HP12x74 Steel #1 Piles With Pile Shoes Required.

Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

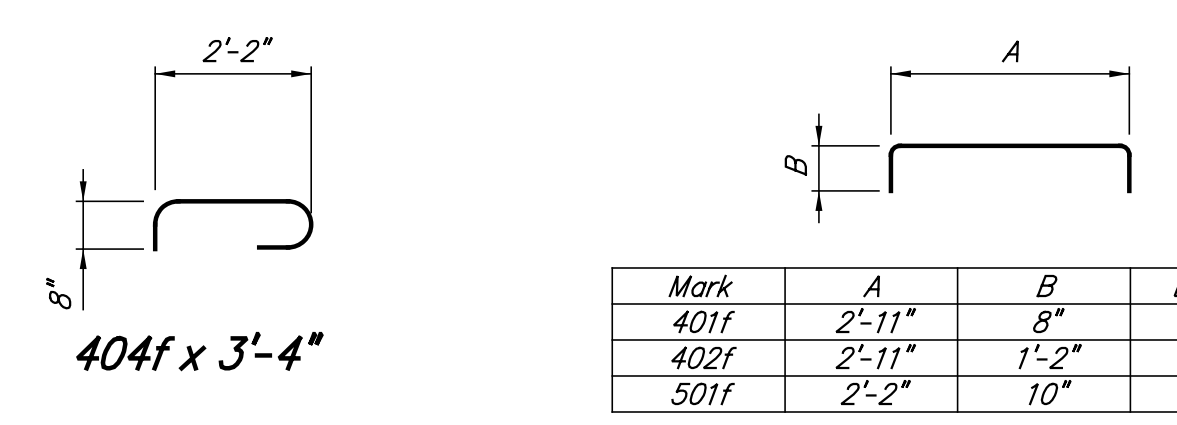
FOOTING PLAN



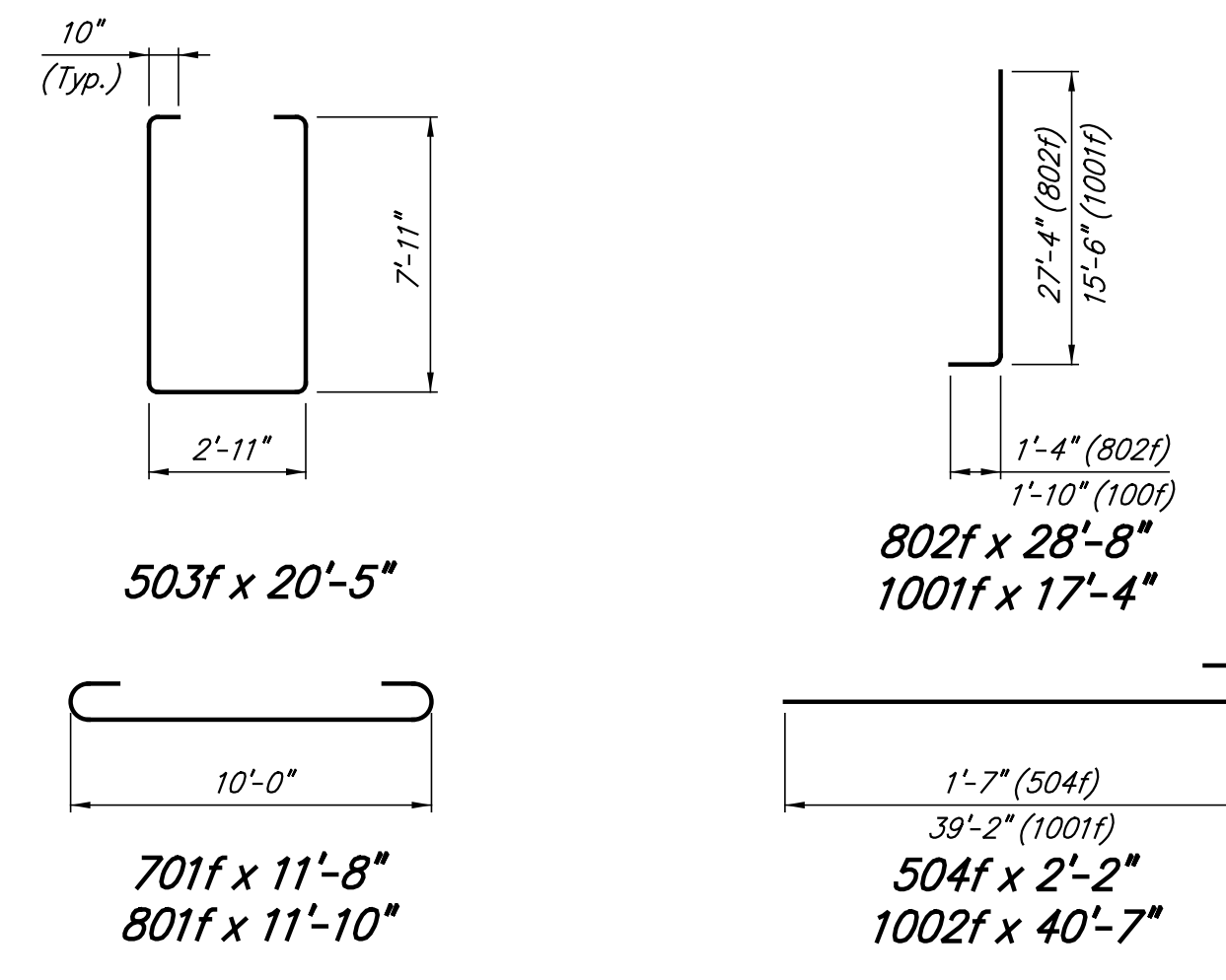
SECTION C-C
Scale: 1/2" = 1'-0"



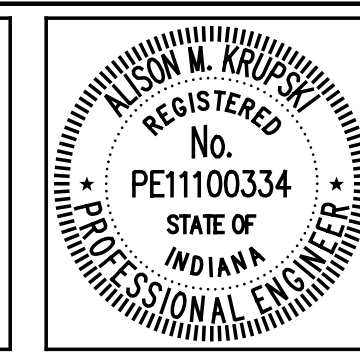
Mark	L	A	B	Incr.	N
502f	41'-5"	11'-6"	29'-11"	3'-8"±	6
601f	30'-2"	10'-1"	20'-1"	6"±	21



Mark	A	B	Length
401f	2'-11"	8"	4'-3"
402f	2'-11"	1'-2"	5'-3"
501f	2'-2"	10"	3'-10"



NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



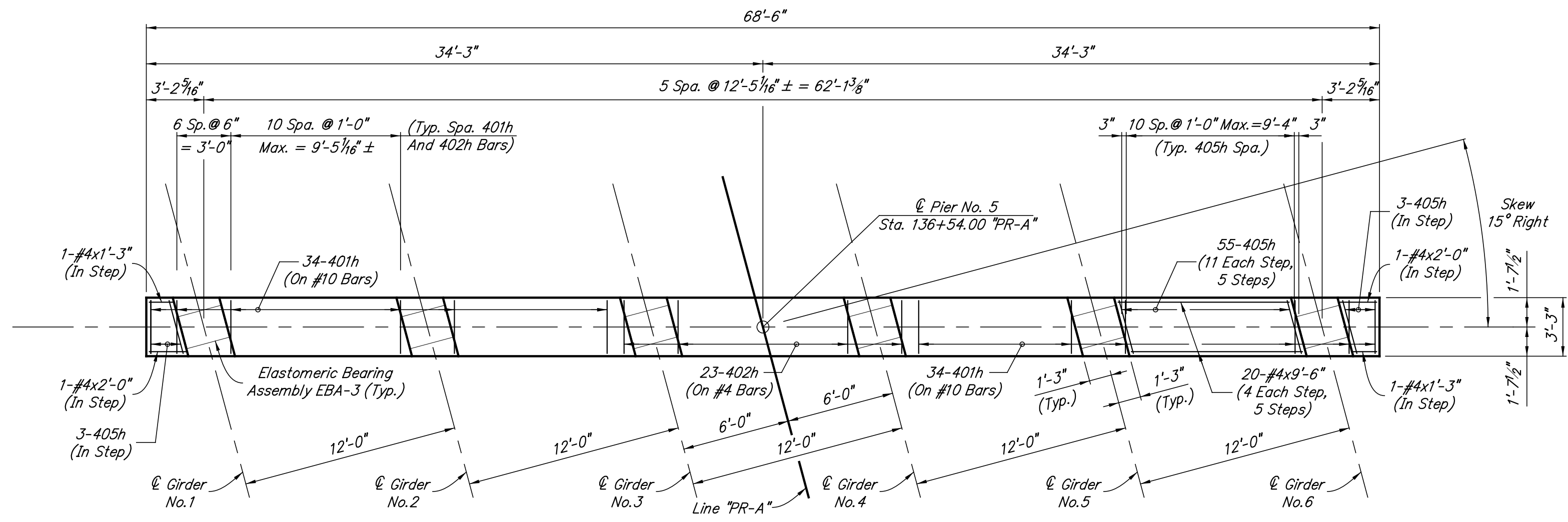
RECOMMENDED FOR APPROVAL
Alison M. Krupski 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION

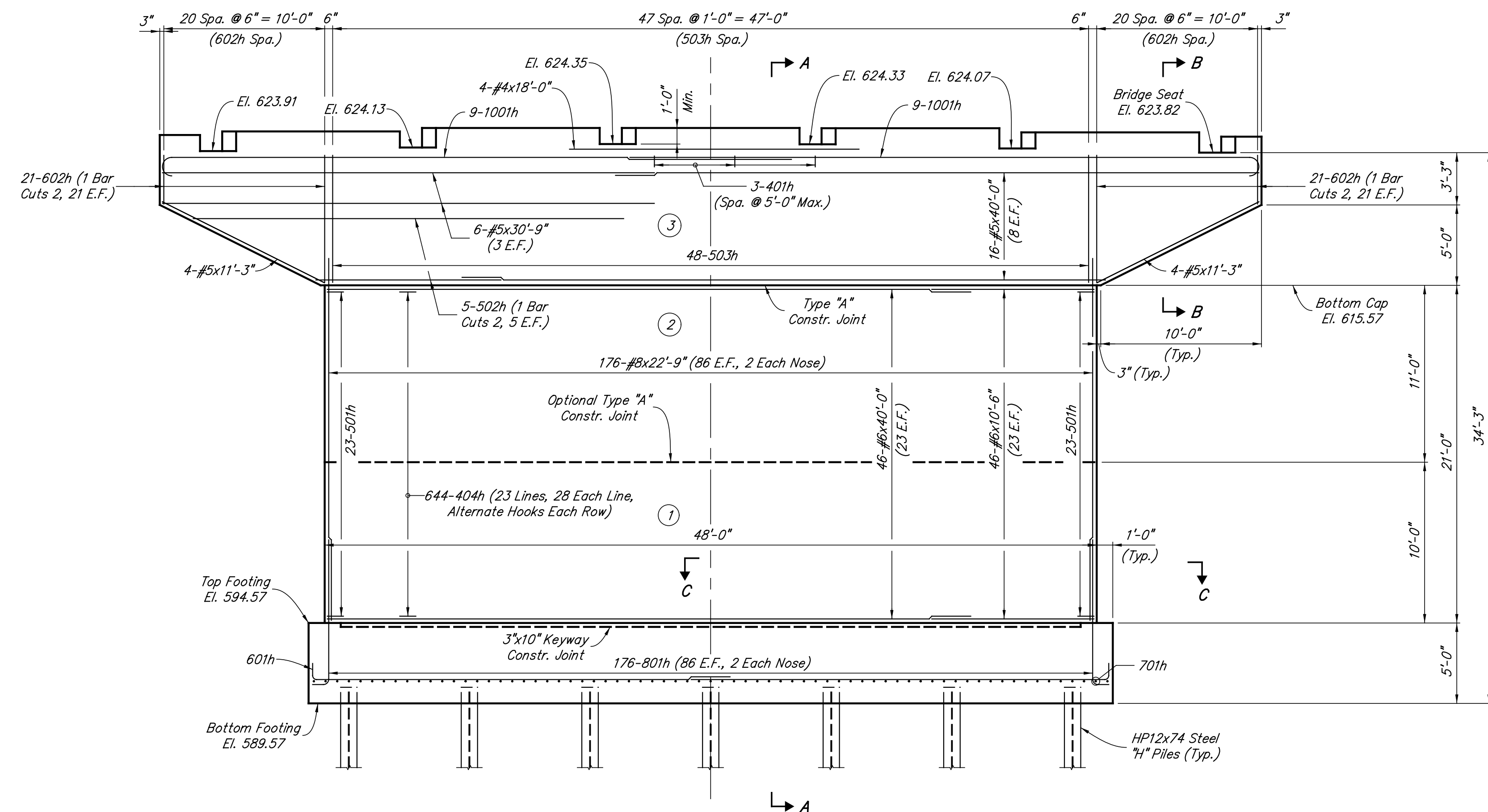
PIER NO. 4 DETAILS

HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 66 of 149
CONTRACT B-33357	PROJECT NO. N881008

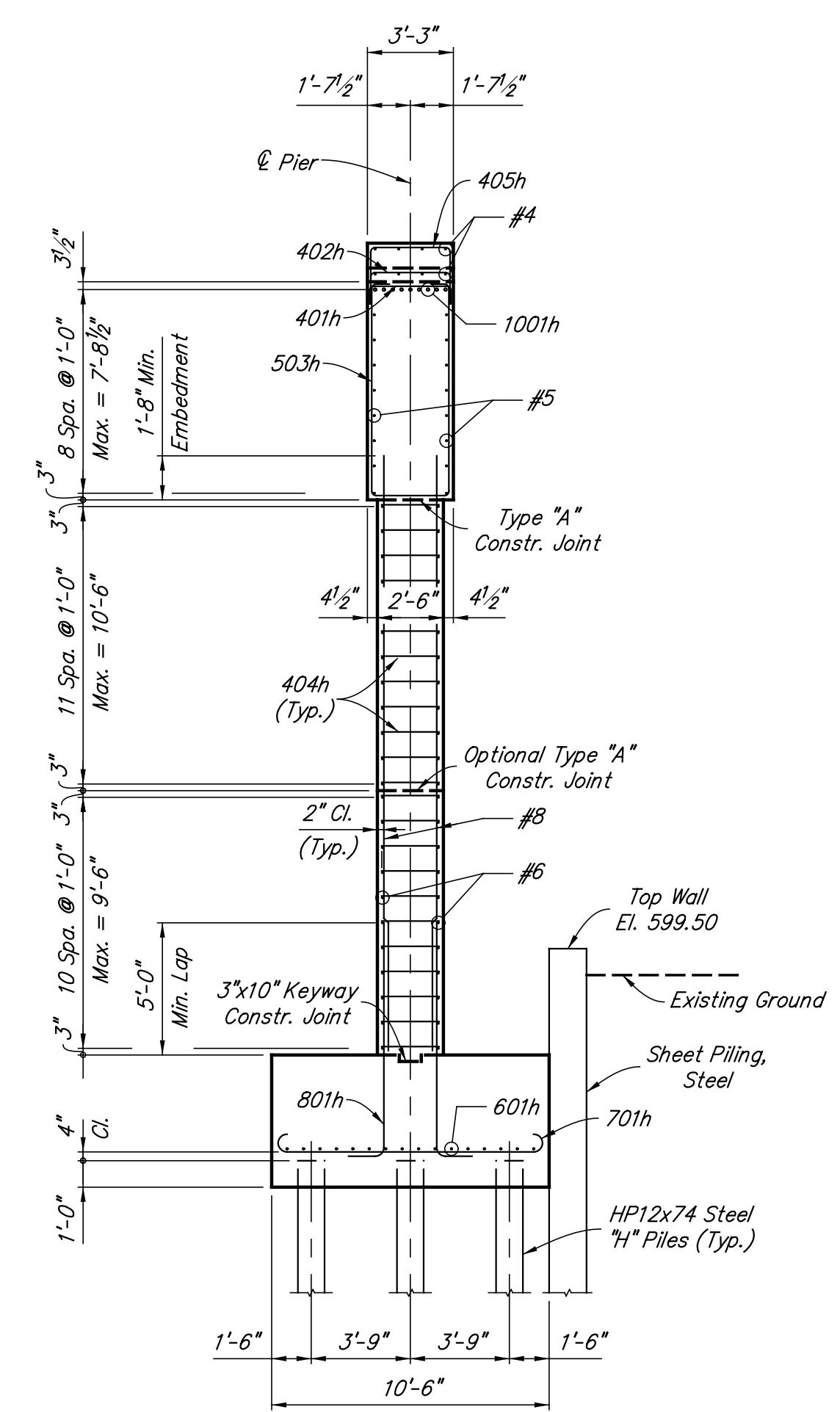


CAP PLAN

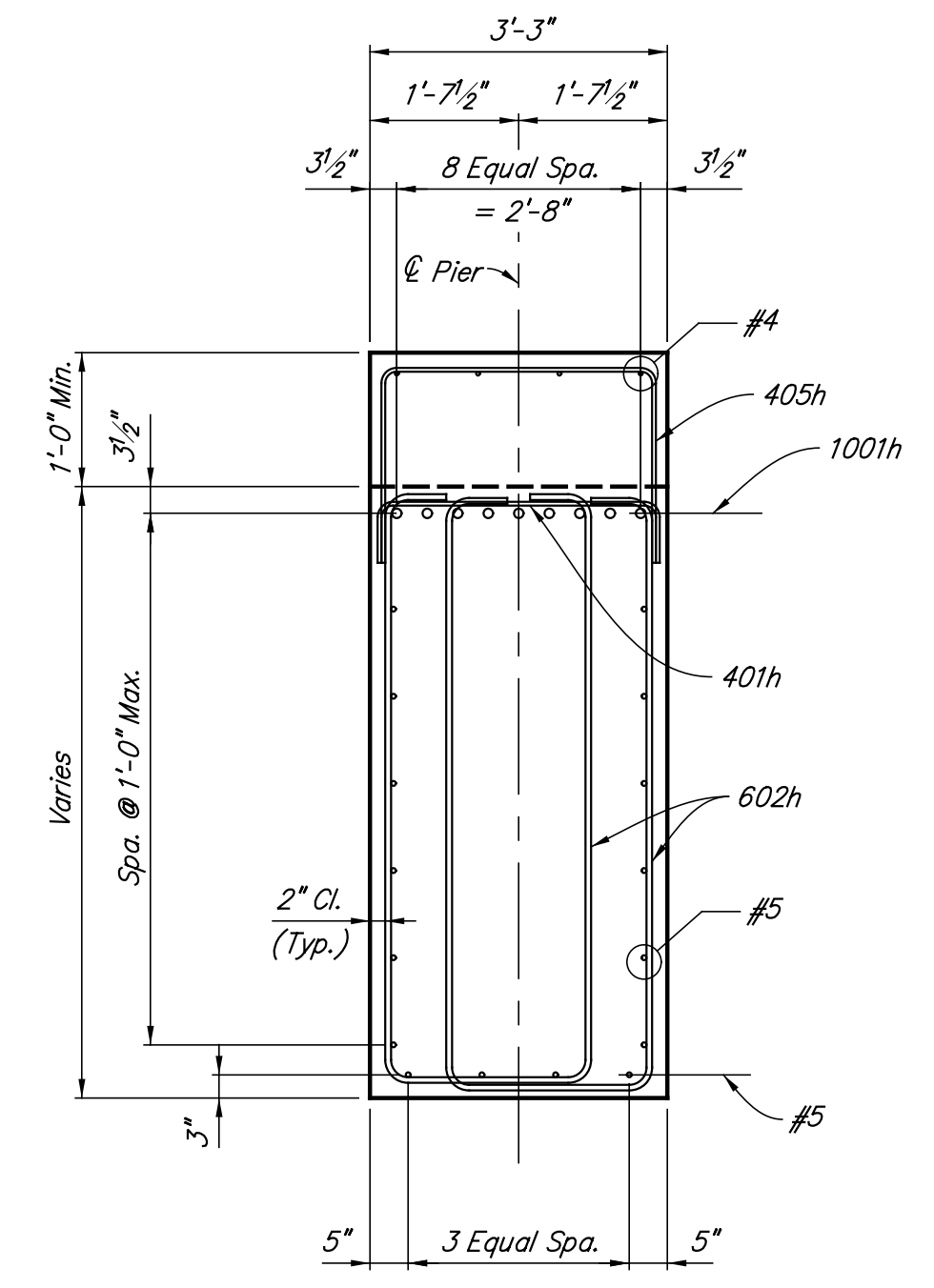
Min. Lap	
#5	2'-5"
#6	2'-10"
#8	5'-0"
#10	10'-1"



ELEVATION

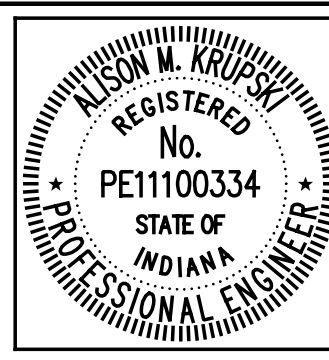


SECTION A-A



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

- NOTES:**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be plain.
 - For Footing Plan, Section C-C, bar bending details and Bill Of Materials, see Sheet No.68.
 - Surface seal top and vertical surfaces of pier cap.
 - For elastomeric bearing assembly details, see Sheet No.90.
 - For pier backfill limits, see Standard Drawing E211-BFIL-03.
 - (*) Indicates concrete pour number.



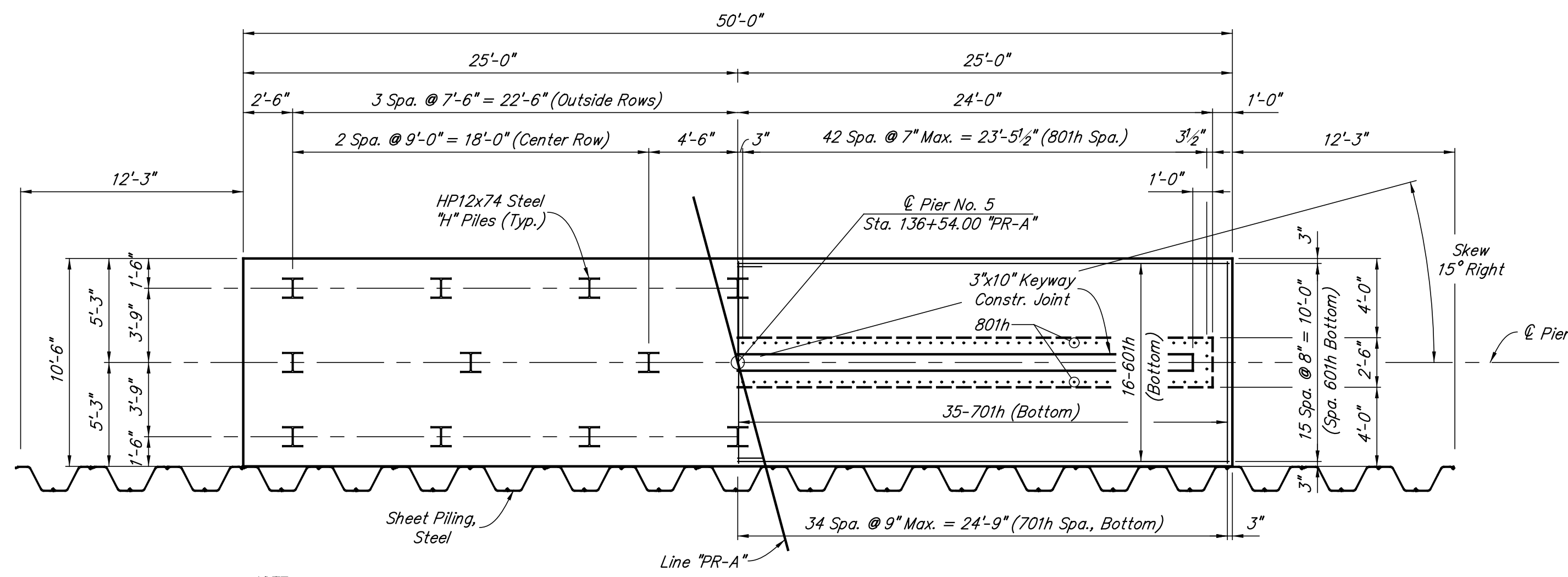
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION

PIER NO.5 DETAILS

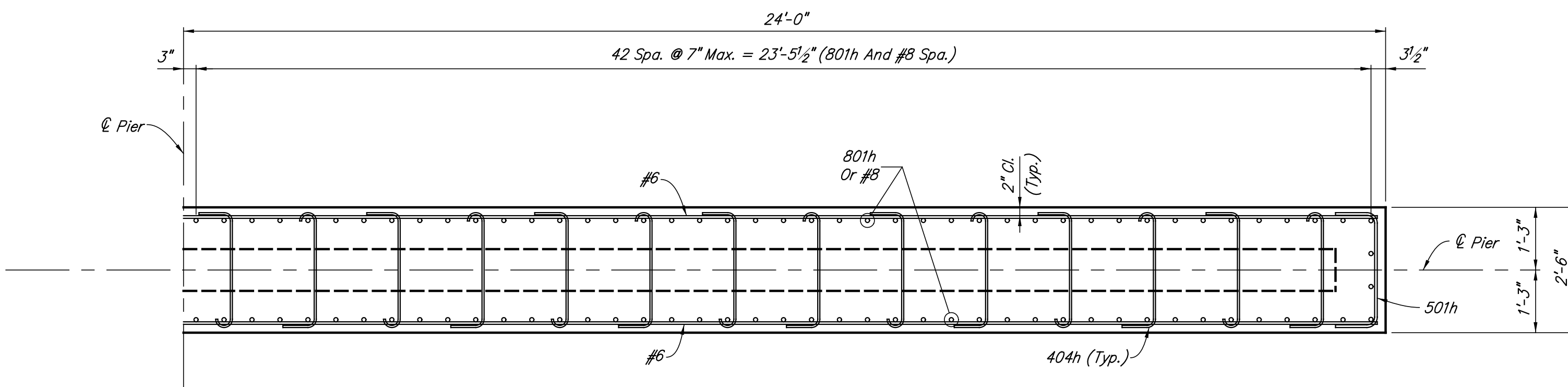
HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 67 of 149
CONTRACT B-33357	PROJECT NO. N881008



NOTE:
20- HP12x74 Steel "H" Piles With Pile Shoes Required.

Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

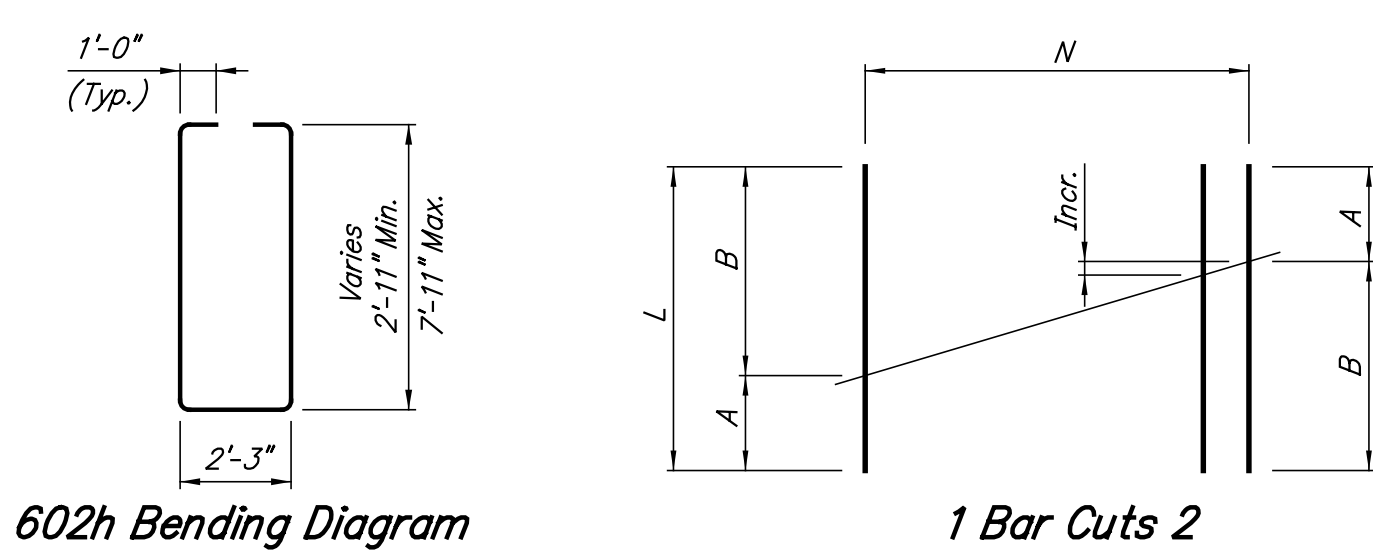
FOOTING PLAN



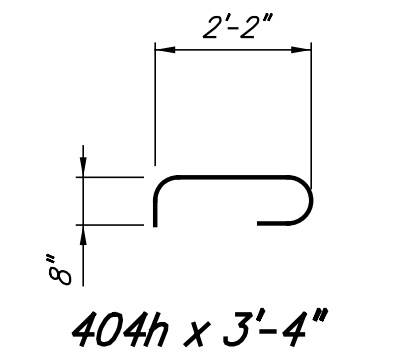
SECTION C-C
Scale: 1/2" = 1'-0"

Min. Lap

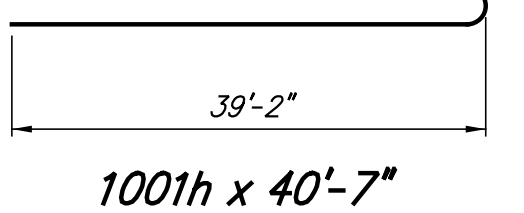
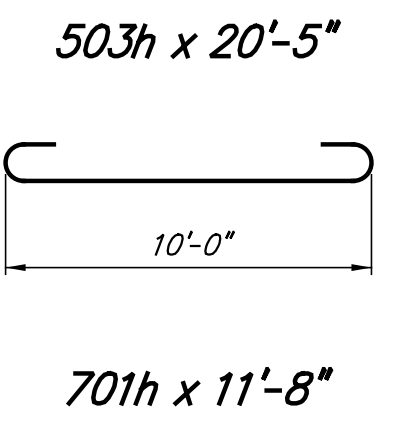
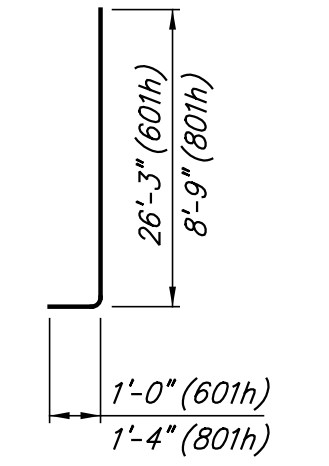
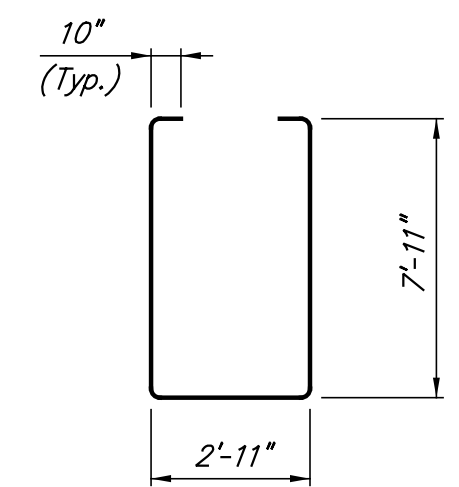
#5	2'-5"
#6	2'-10"
#8	5'-0"
#10	10'-1"



Mark	L	A	B	Incr.	N
502h	38'-6"	11'-6"	27'-0"	3'-10 1/2"	5
602h	30'-2"	10'-1"	20'-1"	6"±	21



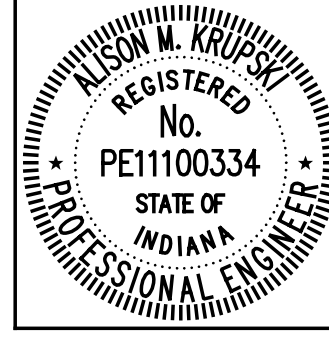
Mark	A	B	Length
401h	2'-11"	8"	4'-3"
402h	2'-11"	1'-2"	5'-3"
405h	2'-11"	2'-0"	6'-11"
501h	2'-2"	10"	3'-10"



**PIER NO.5
BILL OF MATERIALS**

Plain Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
1001h	18	40'-7"	
Total No. 10			3144
801h	176	10'-1"	
#8	176	22'-9"	
Total No. 8			15430
701h	69	11'-8"	
Total No. 7			1646
601h	32	28'-3"	
602h	42	30'-2"	
#6	46	40'-0"	
#6	46	10'-6"	
Total No. 6			6750
501h	46	3'-10"	
502h	5	38'-6"	
503h	48	20'-5"	
#5	16	40'-0"	
#5	6	30'-9"	
#5	8	11'-3"	
Total No. 5			2361
401h	71	4'-3"	
402h	23	5'-3"	
404h	644	3'-4"	
405h	61	6'-11"	
#4	4	18'-0"	
#4	20	9'-6"	
#4	2	2'-0"	
#4	2	1'-3"	
Total No. 4			2178
Total Plain Reinforcing Steel			31509
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			48.9 Cys
Pour No. 3			72.5 Cys
Total Class "A" in Substructure			165.8 Cys
Class "B" in Footing			97.2 Cys
Miscellaneous			
Surface Seal			1510 Sft.
20-Piles, Steel "H", HP12x74 x 95'-0" Approximate			1900 Lft.
Pile Shoe, HP12x74			20 Each

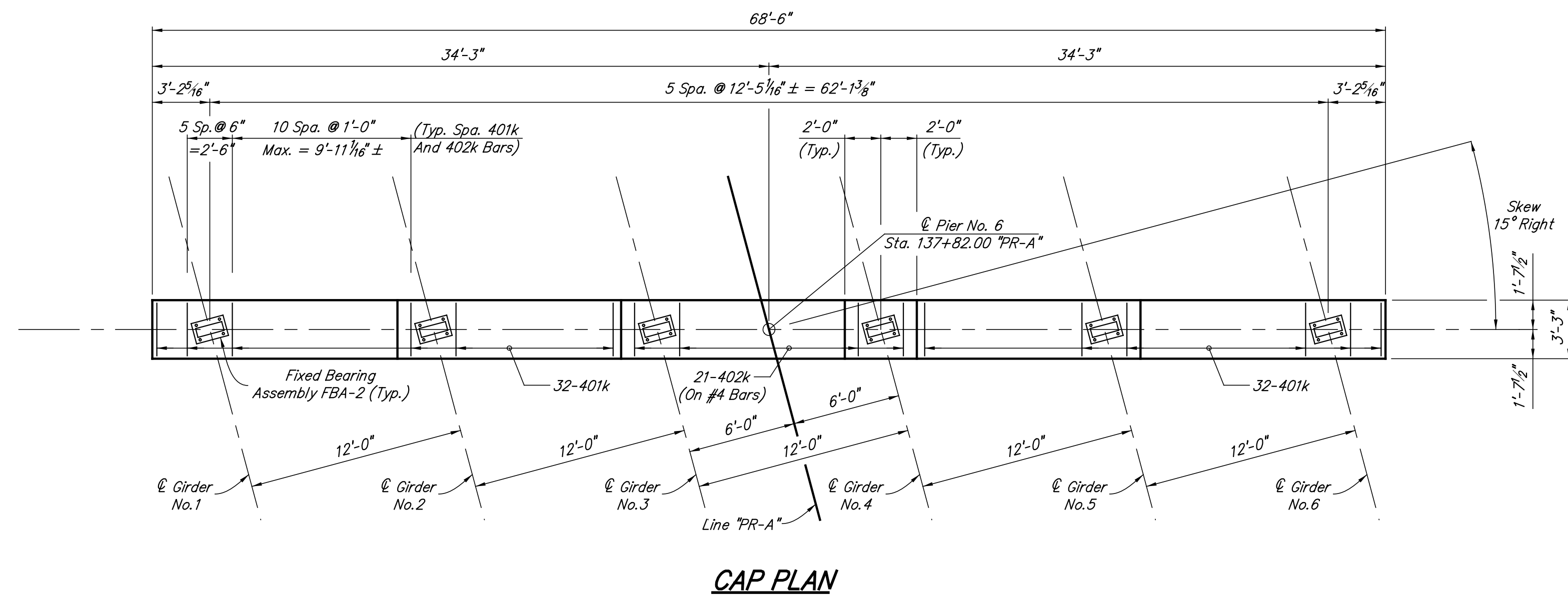
NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



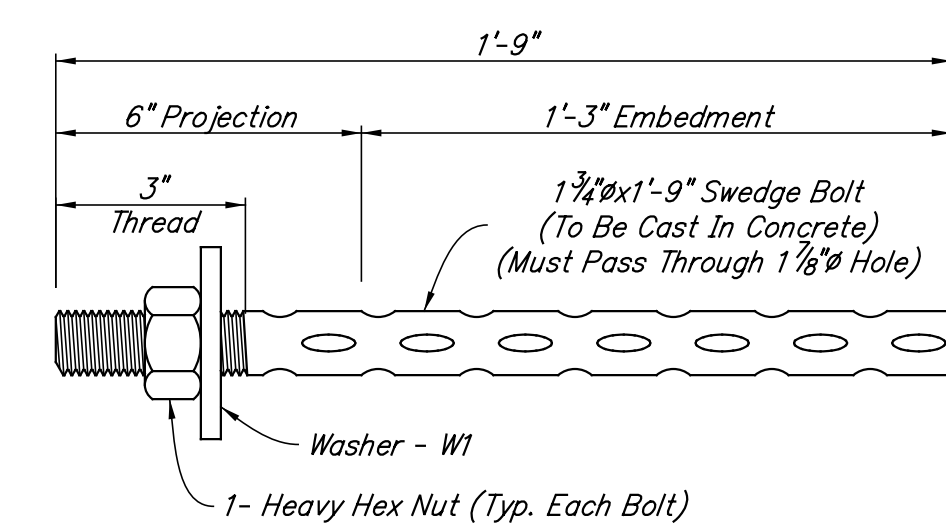
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION
PIER NO.5 DETAILS

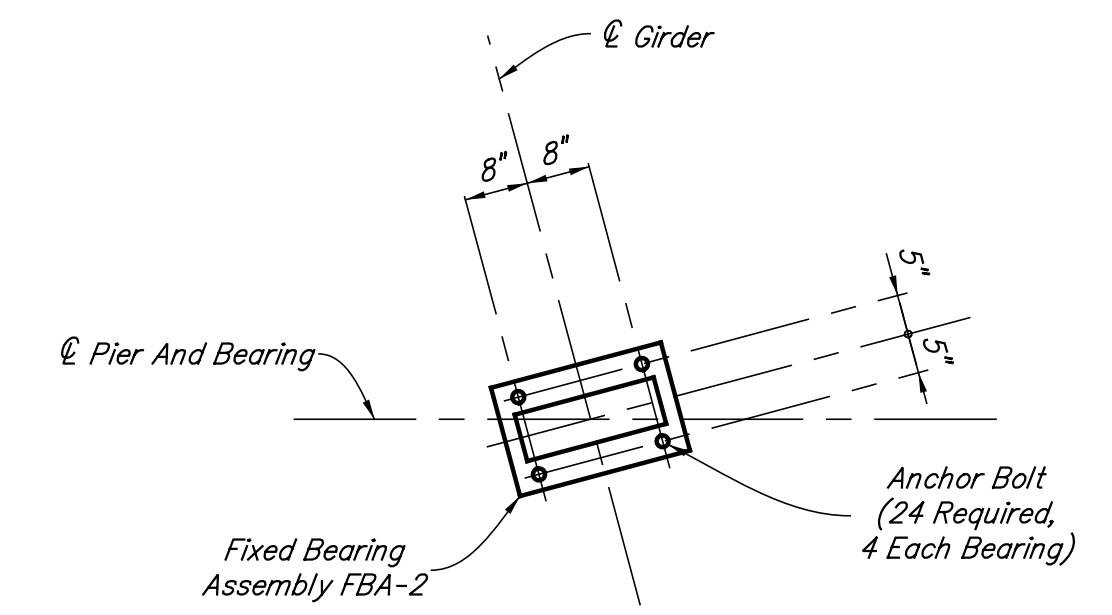
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	68 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



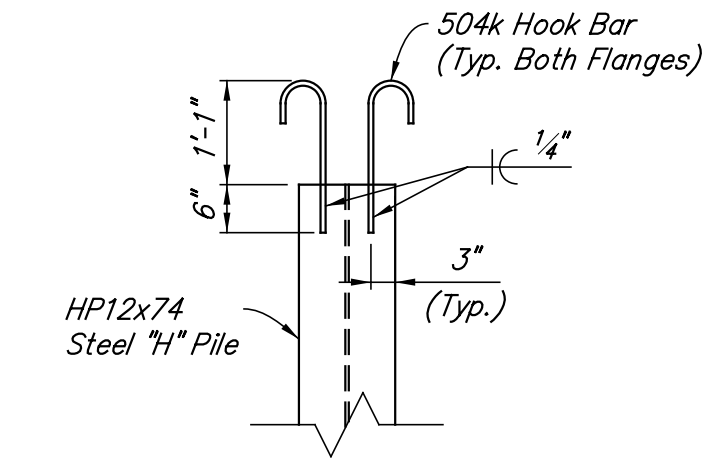
CAP PLAN



ANCHOR BOLT DETAIL
No Scale

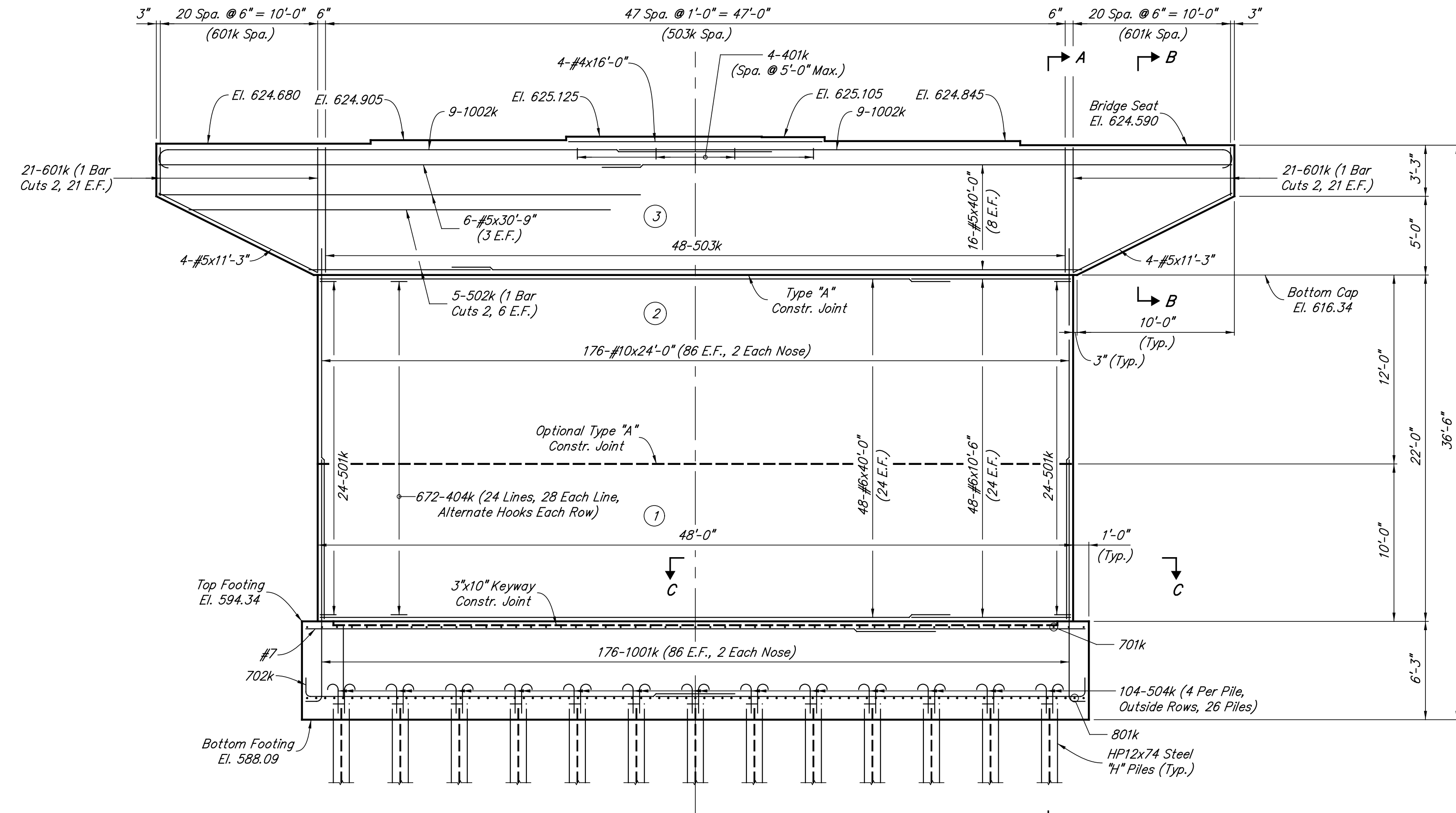


ANCHOR BOLT PLACEMENT DETAIL
Scale: 1/2" = 1'-0"

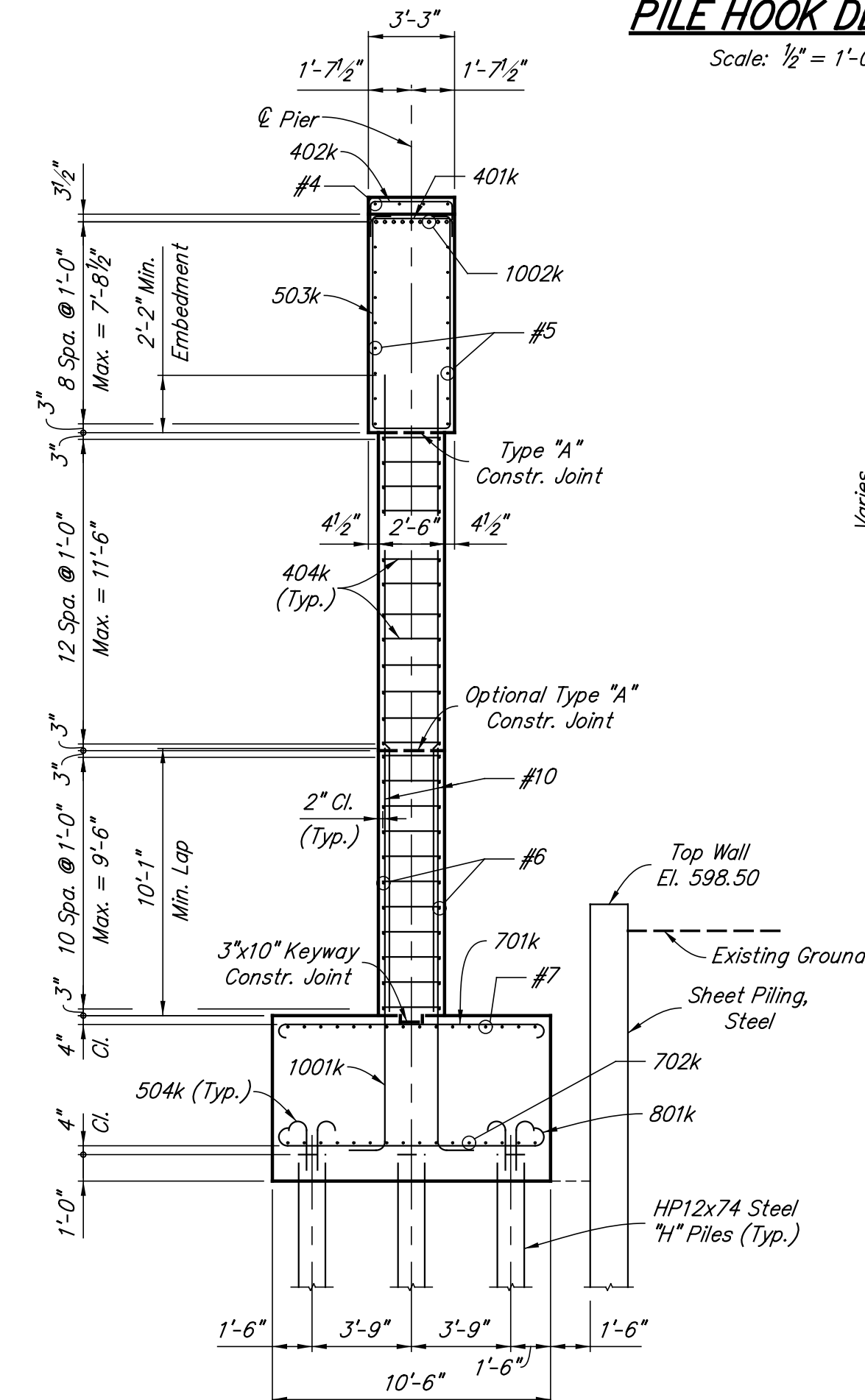


PILE HOOK DETAIL
Scale: 1/2" = 1'-0"

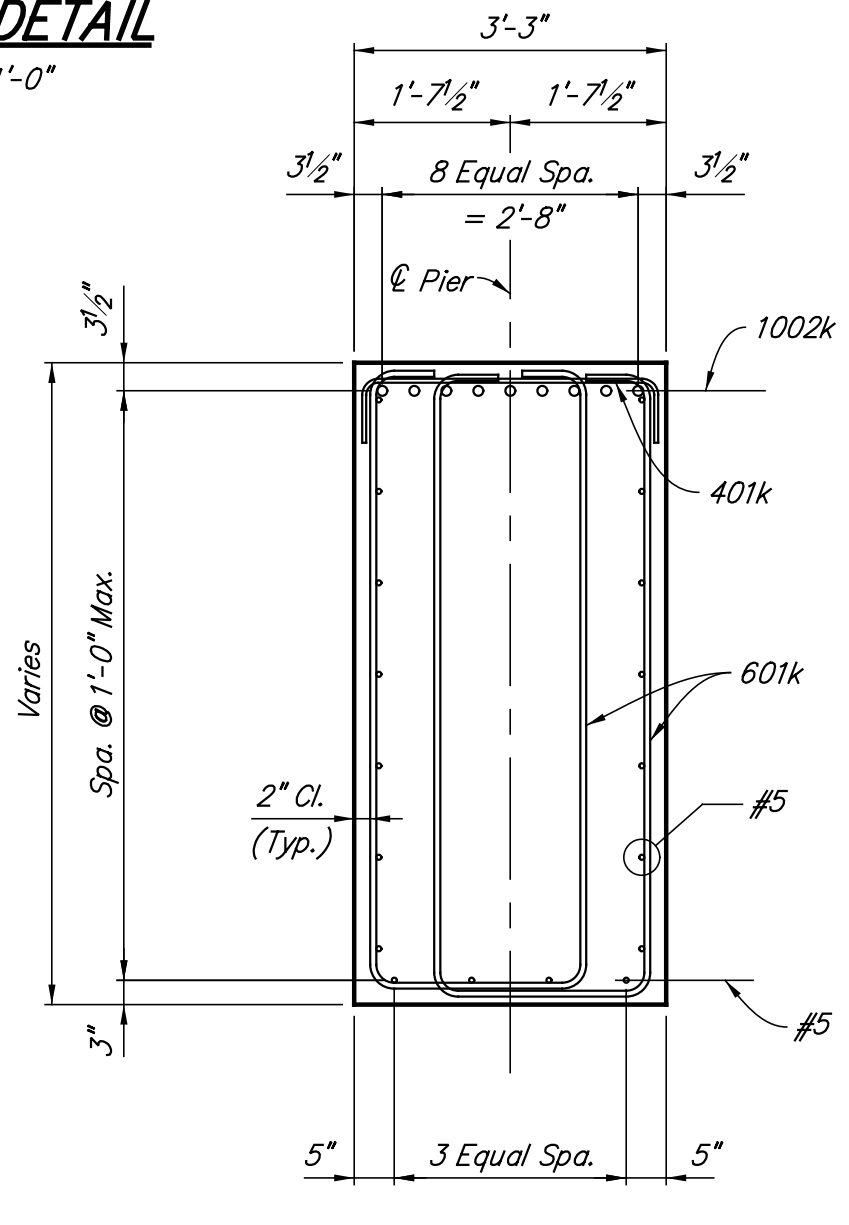
Min. Lap	
#5	2'-5"
#6	2'-10"
#8	5'-0"
#10	10'-1"



ELEVATION

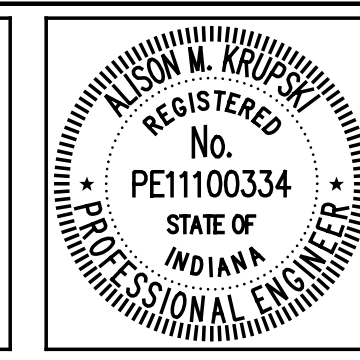


SECTION A-A



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

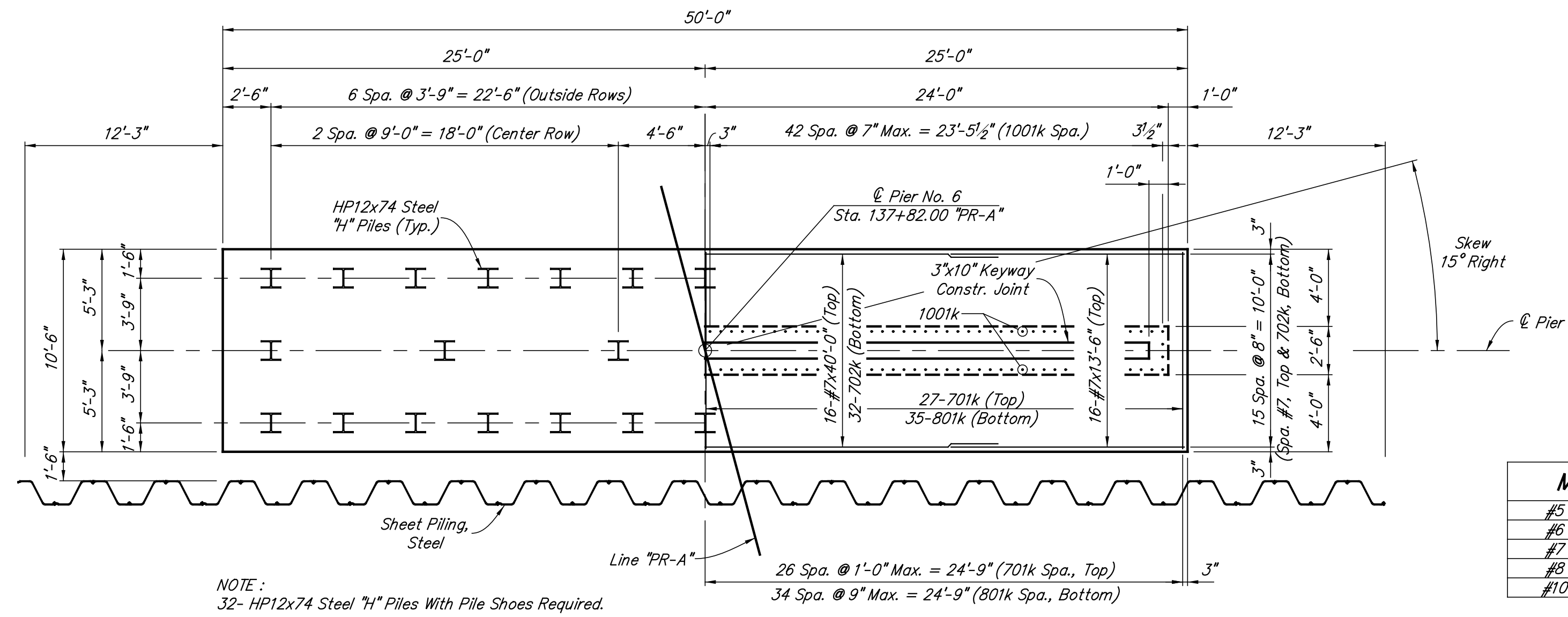
NOTES:
 For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 All reinforcing steel to be plain.
 For Footing Plan, Section C-C, bar bending details and Bill Of Materials, see Sheet No.70.
 Surface seal top and vertical surfaces of pier cap.
 For fixed bearing assembly details, see Sheet No.91.
 For pier backfill limits, see Standard Drawing E211-BFIL-03.
 (X) Indicates concrete pour number.



RECOMMENDED FOR APPROVAL
Alison M. Kryskiei 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

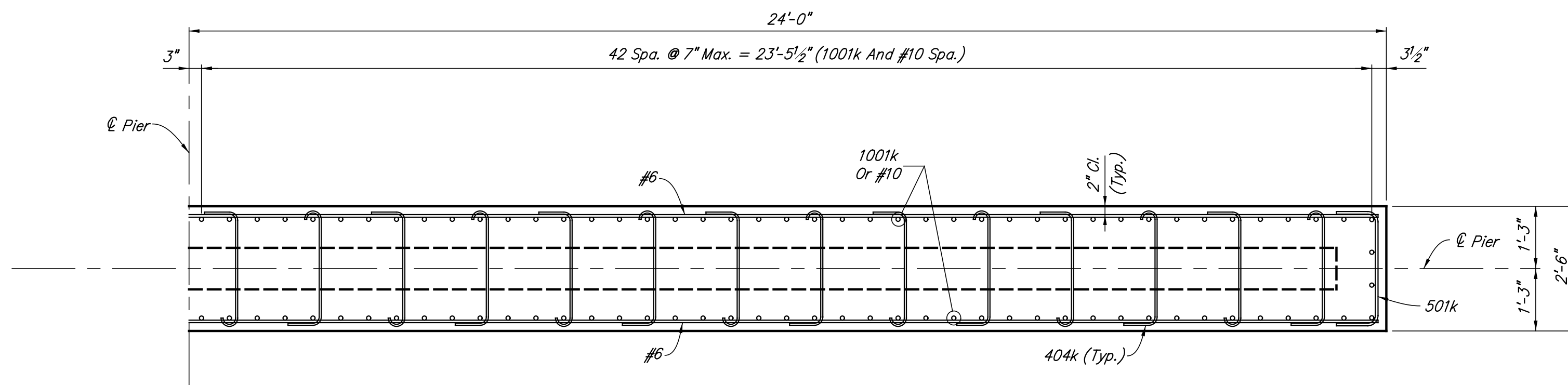
INDIANA DEPARTMENT OF TRANSPORTATION
PIER NO.6 DETAILS

HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 69 of 149
CONTRACT B-33357	PROJECT NO. N881008



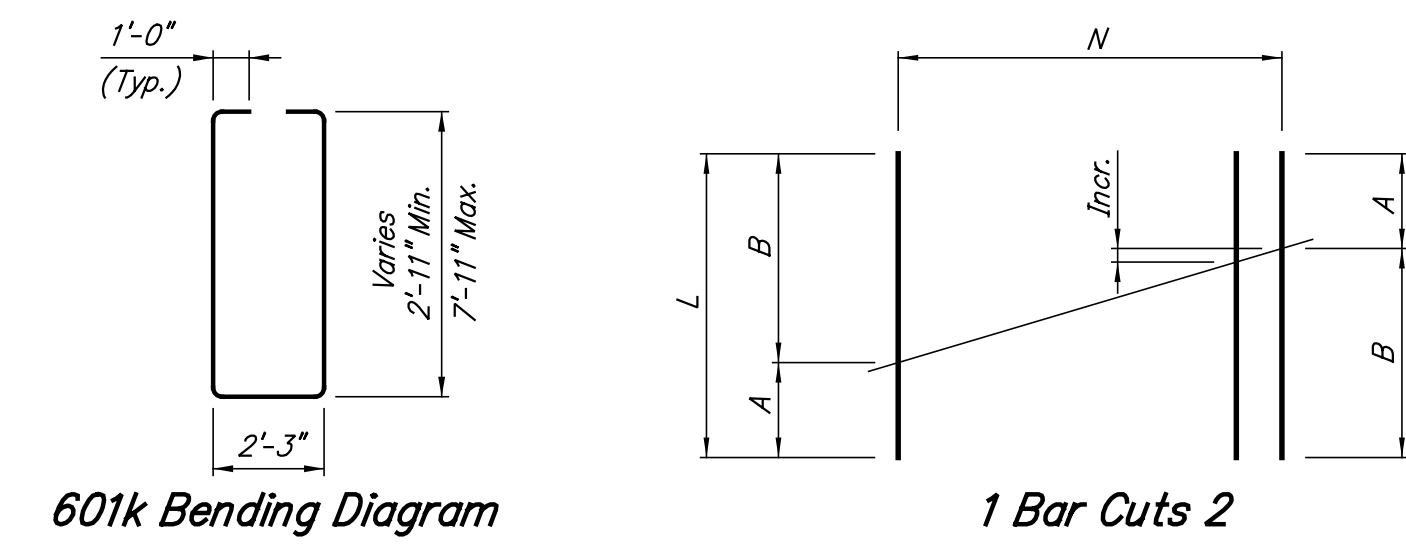
Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

FOOTING PLAN

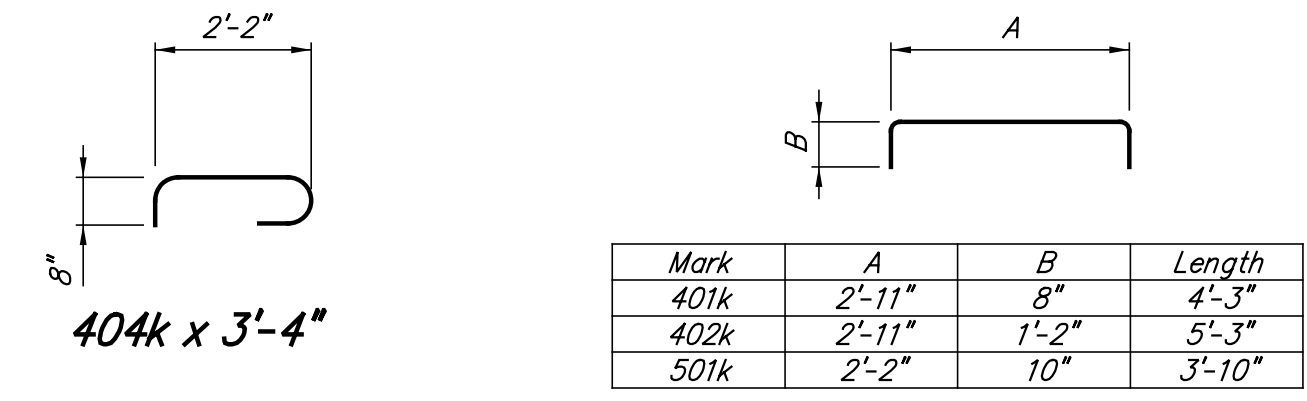


SECTION C-C
Scale: 1/2" = 1'-0"

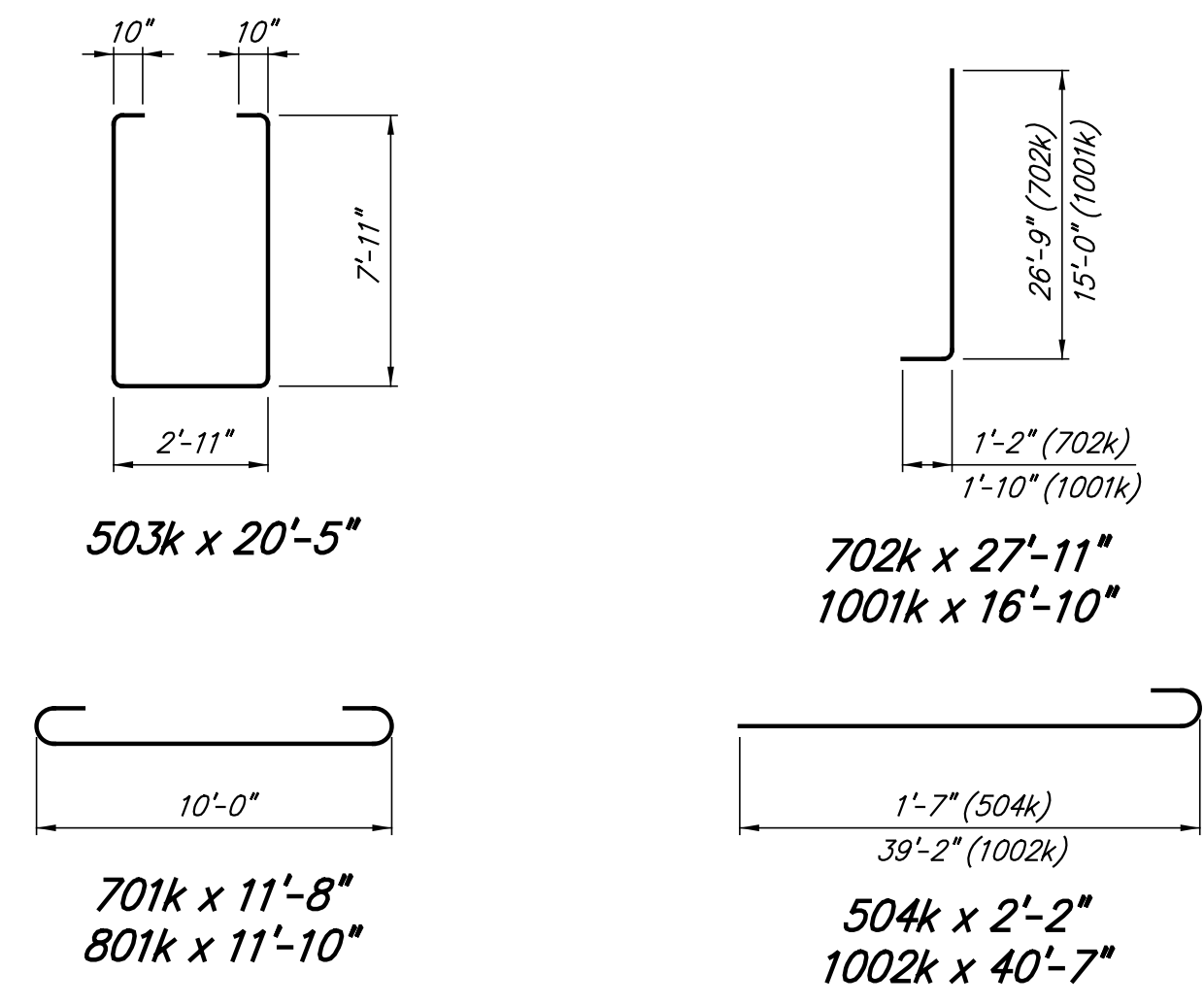
Min. Lap	
#5	2'-5"
#6	2'-10"
#7	3'-10"
#8	5'-0"
#10	10'-1"



Mark	L	A	B	Incr.	N
502k	38'-6"	11'-6"	27'-0"	3'-10 1/2"	5
601k	30'-2"	10'-1"	20'-1"	6"±	21



Mark	A	B	Length
401k	2'-11"	8"	4'-3"
402k	2'-11"	1'-2"	5'-3"
501k	2'-2"	10"	3'-10"

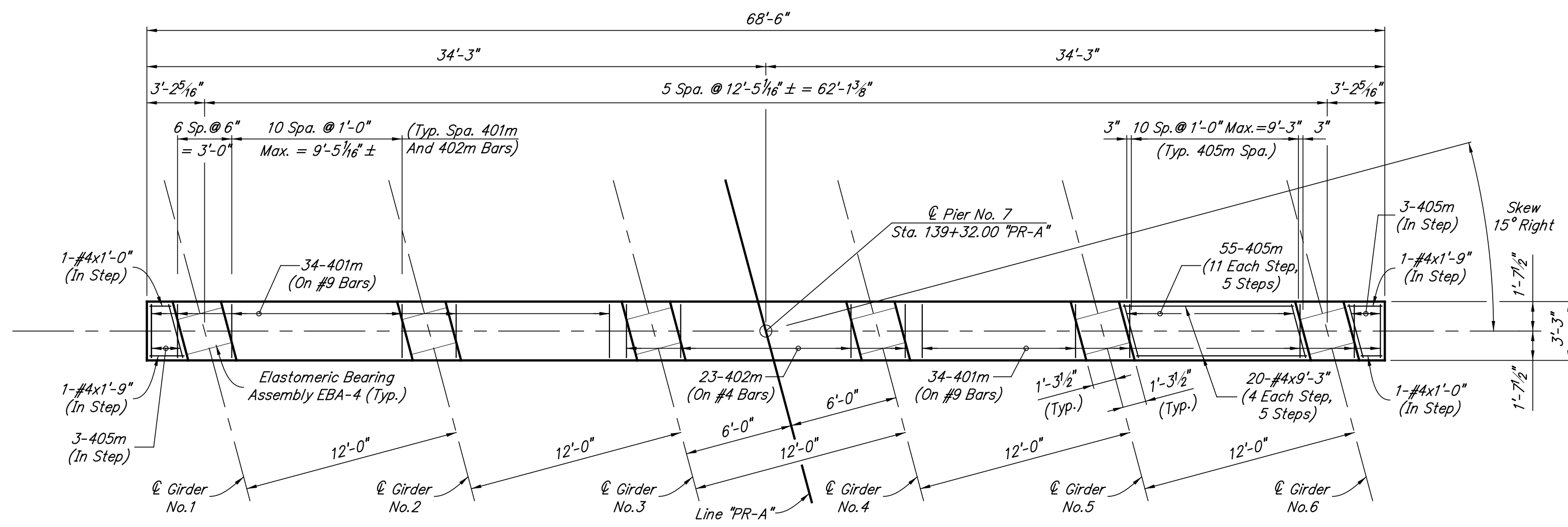


**PIER NO.6
BILL OF MATERIALS**

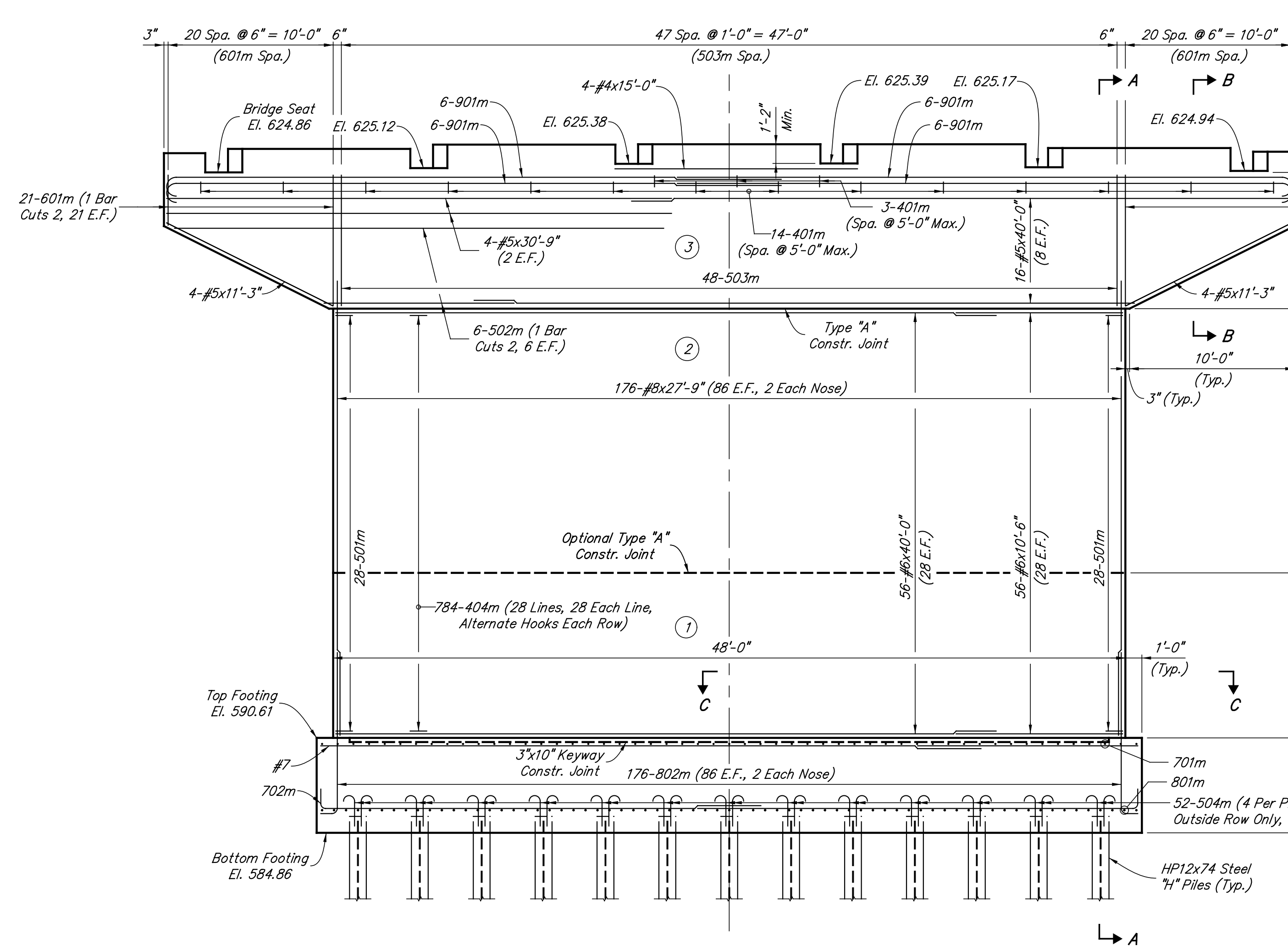
Size And Mark	Plain Reinforcing Steel No. of Bars	Length (Feet)	Weight (Lbs.)
1001k	176	16'-10"	
1002k	18	40'-7"	
#10	176	24'-0"	
Total No. 10			34068
801k	69	11'-10"	
Total No. 8			2181
701k	53	11'-8"	
702k	32	27'-11"	
#7	16	40'-0"	
#7	16	13'-6"	
Total No. 7			4840
601k	42	30'-2"	
#6	48	40'-0"	
#6	48	10'-6"	
Total No. 6			5544
501k	48	3'-10"	
502k	5	38'-6"	
503k	48	20'-5"	
504k	104	2'-2"	
#5	16	40'-0"	
#5	6	30'-9"	
#5	8	11'-3"	
Total No. 5			2604
401k	68	4'-3"	
402k	21	5'-3"	
404k	672	3'-4"	
#4	4	16'-0"	
Total No. 4			1806
Total Plain Reinforcing Steel			51043
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			53.3 Cys
Pour No. 3			64.1 Cys
Total Class "A" in Substructure			161.8 Cys
Class "B" in Footing			
			121.5 Cys
Miscellaneous			
Surface Seal			1310 Sft.
31-Piles, Steel #4, HP12x74 x 85'-0" Approximate			2635 Lft.
1-Test Pile, Dynamic, Production x 95'-0" Approximate			95 Lft.
Pile Shoe, HP 12x74			32 Each

NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.

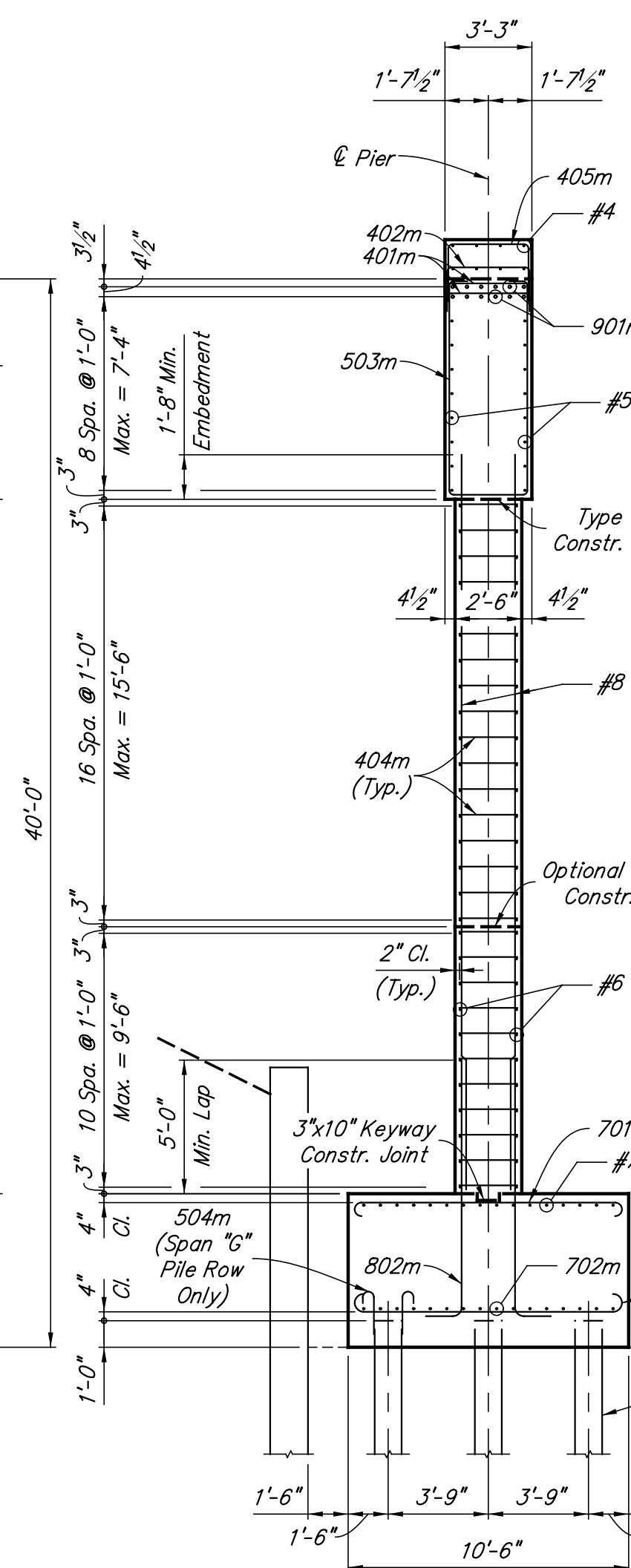
	RECOMMENDED FOR APPROVAL Alison M. Krupski DESIGN ENGINEER DATE 6/1/2012	INDIANA DEPARTMENT OF TRANSPORTATION PIER NO.6 DETAILS	HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
	DESIGNED: AMK DRAWN: DSH CHECKED: RMC CHECKED: AMK		VERTICAL SCALE DESIGNATION NO. 0014210	SURVEY BOOK CONTRACT B-33357



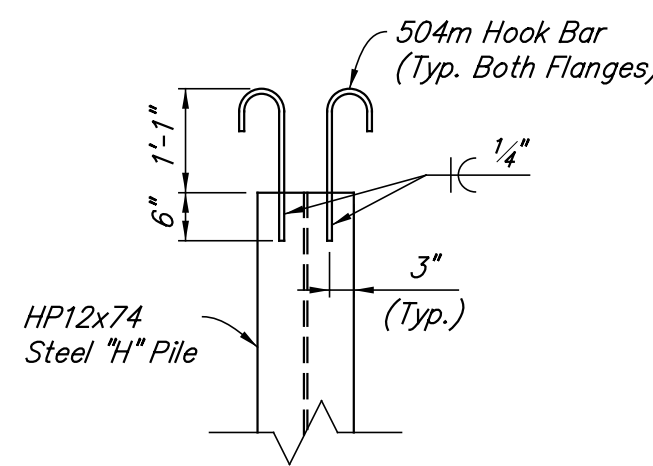
CAP PLAN



ELEVATION



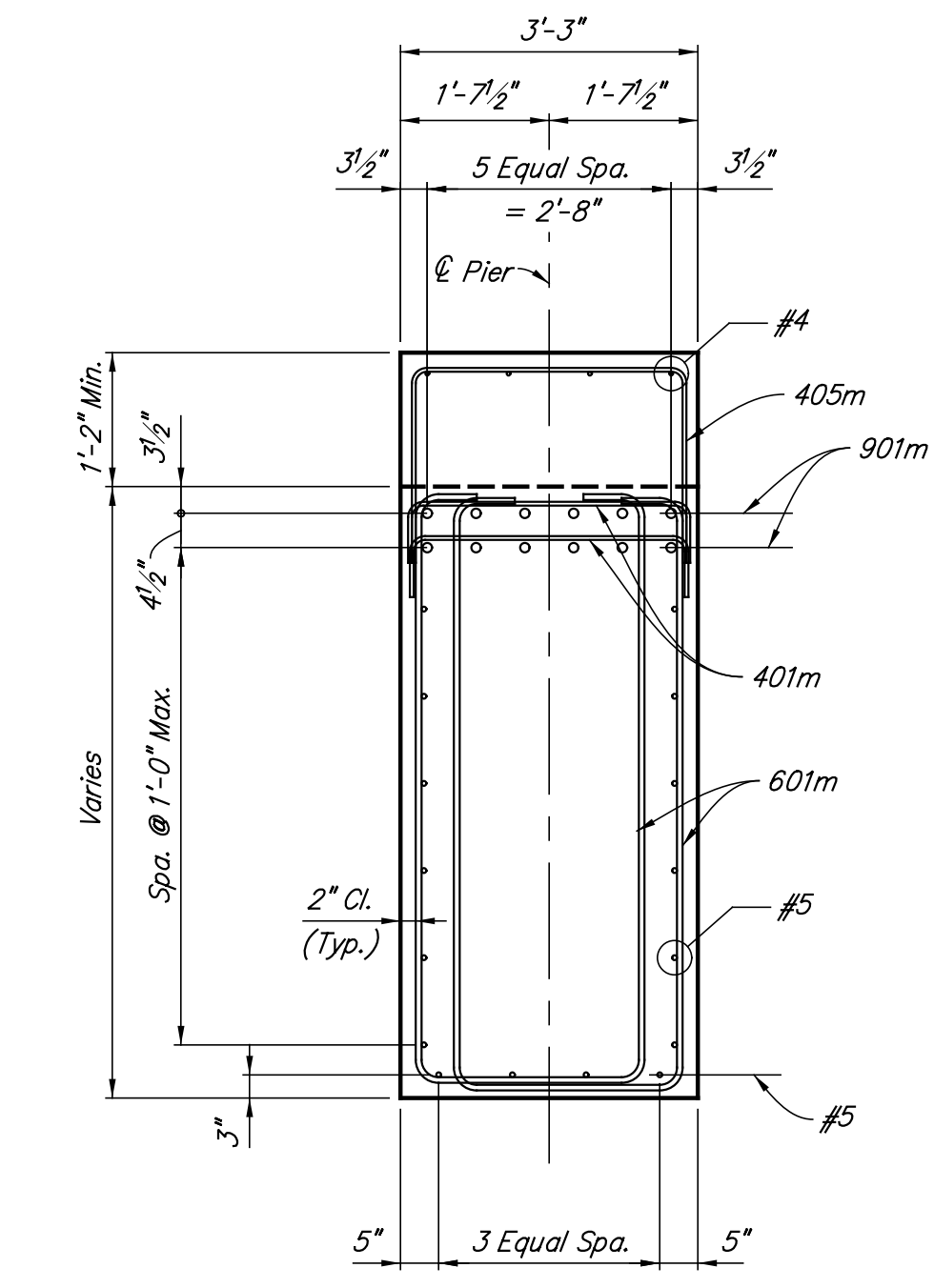
SECTION A-A



PILE HOOK DETAIL

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

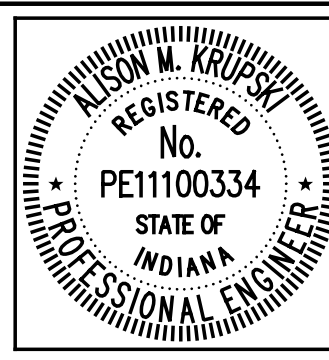
Min. Lap	
#5	2'-5"
#7	3'-10"
#8	5'-0"
#9	6'-4"



SECTION B-B

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

- NOTES:**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be plain.
 - For Footing Plan, Section C-C, bar bending details and Bill Of Materials, see Sheet No.72.
 - Surface seal top and vertical surfaces of pier cap.
 - For elastomeric bearing assembly details, see Sheet No.90.
 - For pier backfill limits, see Standard Drawing E211-BFIL-03.
 - (X) Indicates concrete pour number.



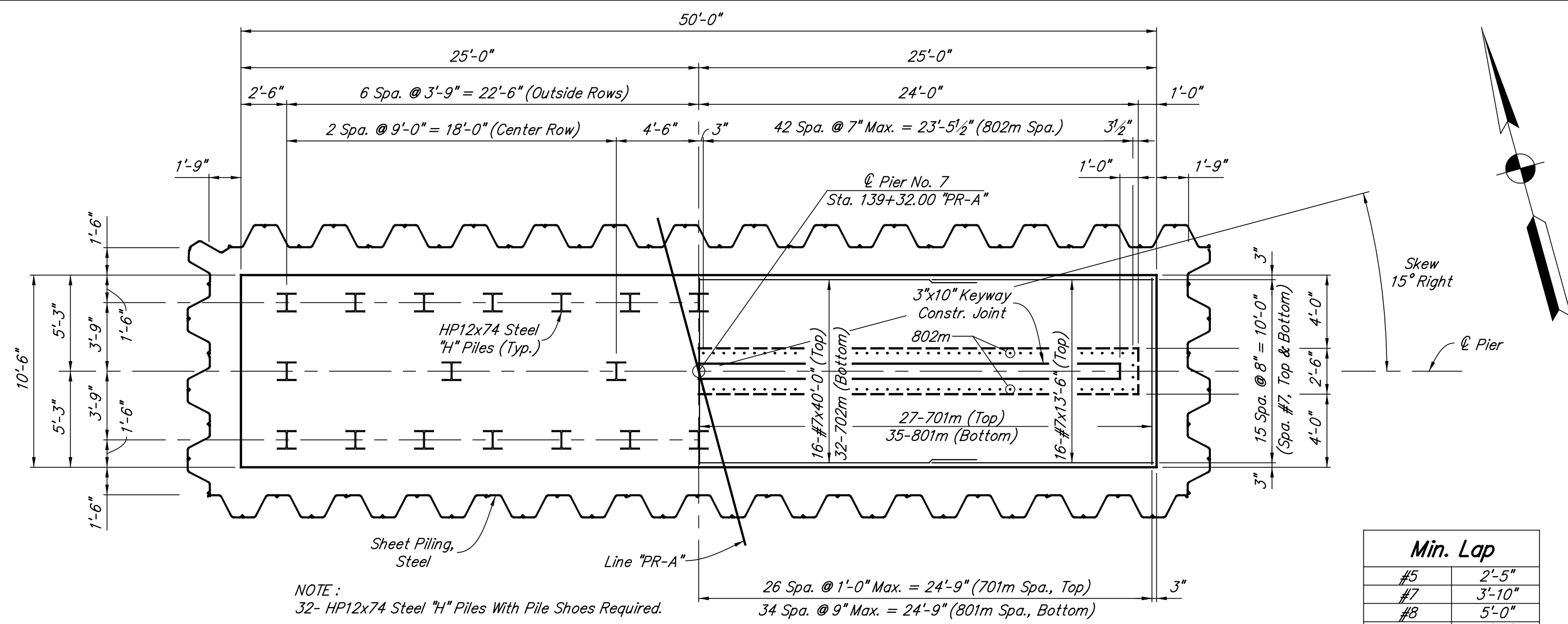
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION

PIER NO.7 DETAILS

HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 71 of 149
CONTRACT B-33357	PROJECT NO. N881008



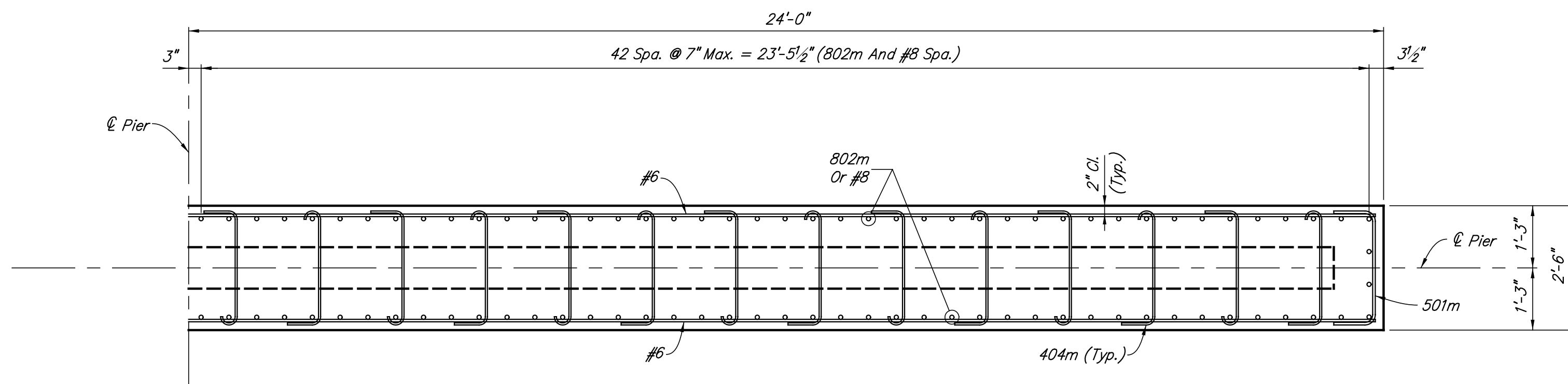
NOTE:
32- HP12x74 Steel "H" Piles With Pile Shoes Required.

Left Half Showing Pile Spacing

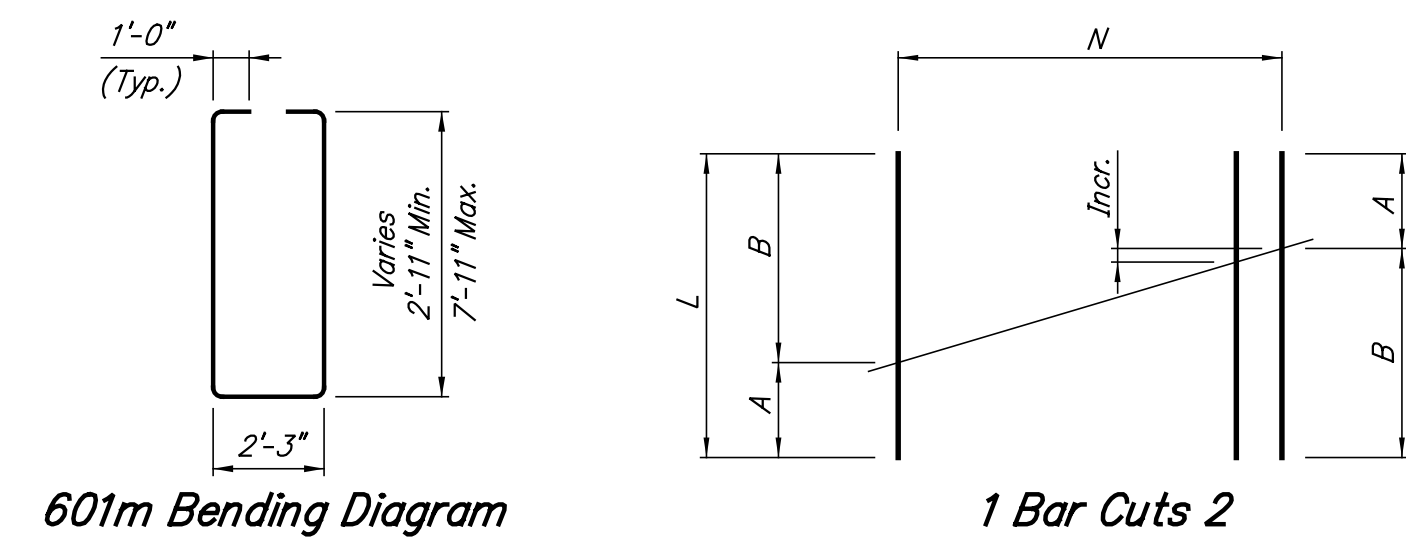
Right Half Showing Reinforcing Steel

FOOTING PLAN

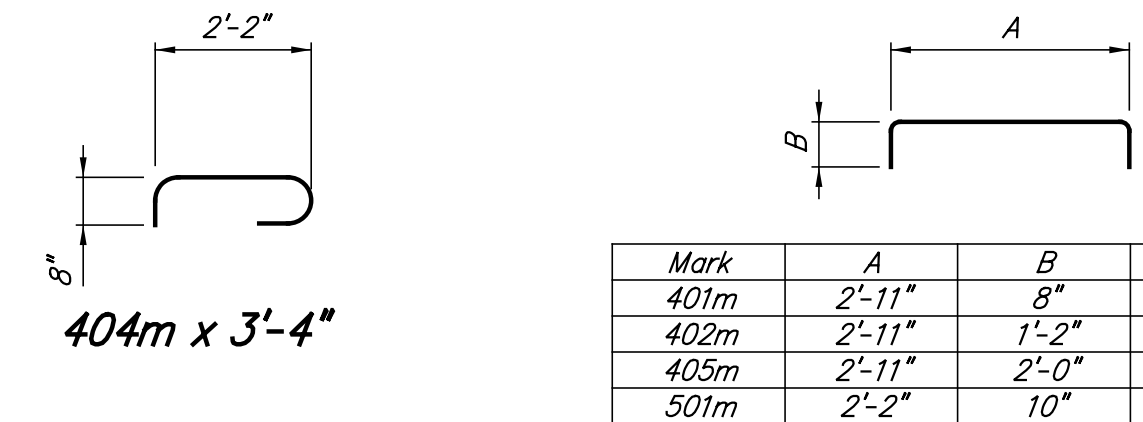
Min. Lap	
#5	2'-5"
#7	3'-10"
#8	5'-0"
#9	6'-4"



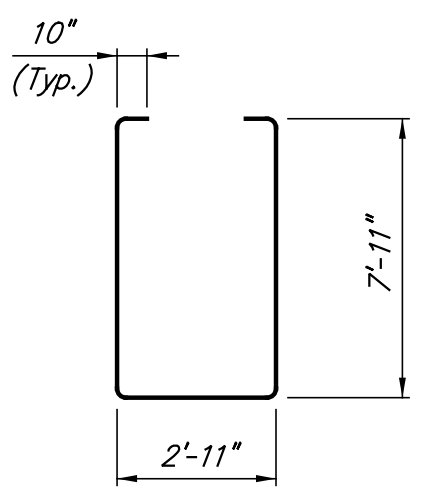
SECTION C-C
Scale: 1/2" = 1'-0"



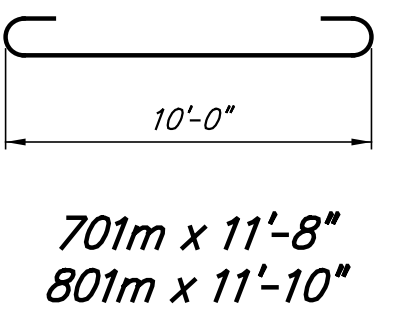
Mark	L	A	B	Incr.	N
502m	41'-5"	11'-6"	29'-11"	3'-8"±	6
601m	30'-2"	10'-1"	20'-1"	6"±	21



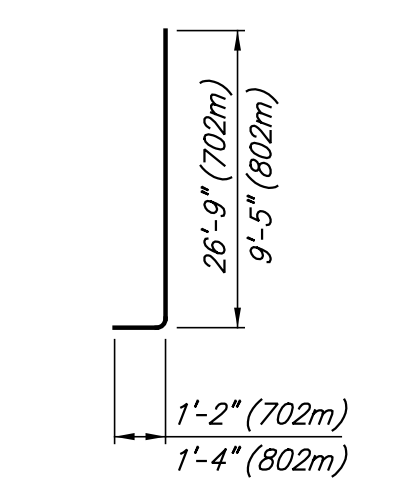
Mark	A	B	Length
401m	2'-11"	8"	4'-3"
402m	2'-11"	1'-2"	5'-3"
405m	2'-11"	2'-0"	6'-11"
501m	2'-2"	10"	3'-10"



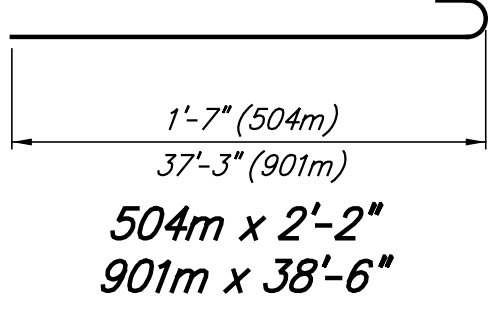
503m x 20'-5"



701m x 11'-8"
801m x 11'-10"



702m x 27'-11"
802m x 10'-9"



504m x 2'-2"
901m x 38'-6"

**PIER NO.7
BILL OF MATERIALS**

Size And Mark	Plain Reinforcing Steel No. of Bars	Length (Feet)	Weight (Lbs.)
901m	24	38'-6"	3142
Total No. 9			
801m	69	11'-10"	20272
802m	176	10'-9"	
#8	176	27'-9"	
Total No. 8			
701m	53	11'-8"	4840
702m	32	27'-11"	
#7	16	40'-0"	
#7	16	13'-6"	
Total No. 7			
601m	42	30'-2"	6151
#6	56	40'-0"	
#6	56	10'-6"	
Total No. 6			
501m	56	3'-10"	2513
502m	6	41'-5"	
503m	48	20'-5"	
504m	52	2'-2"	
#5	16	40'-0"	
#5	4	30'-9"	
#5	8	11'-3"	
Total No. 5			
401m	85	4'-3"	2517
402m	23	5'-3"	
404m	784	3'-4"	
405m	61	6'-11"	
#4	4	15'-0"	
#4	20	9'-3"	
#4	2	1'-9"	
#4	2	1'-0"	
Total No. 4			
Total Plain Reinforcing Steel			39435
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			71.1 Cys
Pour No. 3			72.6 Cys
Total Class "A" in Substructure			188.1 Cys
Class "B" in Footing			111.8 Cys
Miscellaneous			
Surface Seal			1510 Sft.
32-Piles, Steel "H", HP12x74			
x 85'-0" Approximate			2720 Lft.
Pile Shoe, HP12x74			32 Each

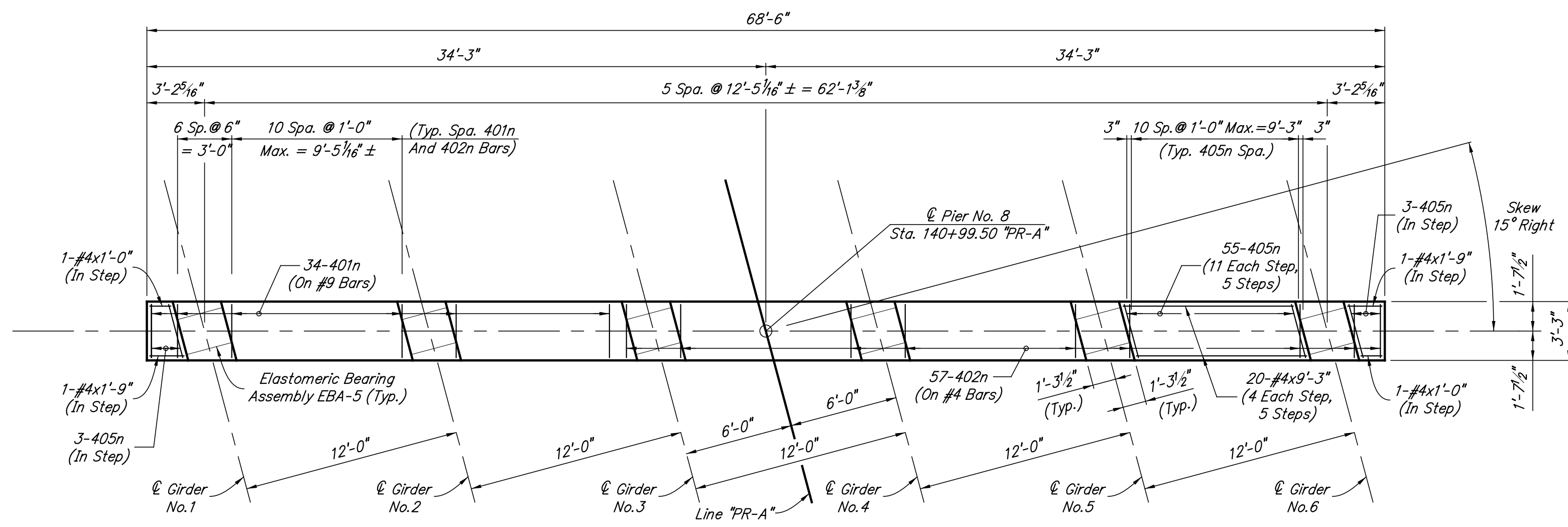
NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



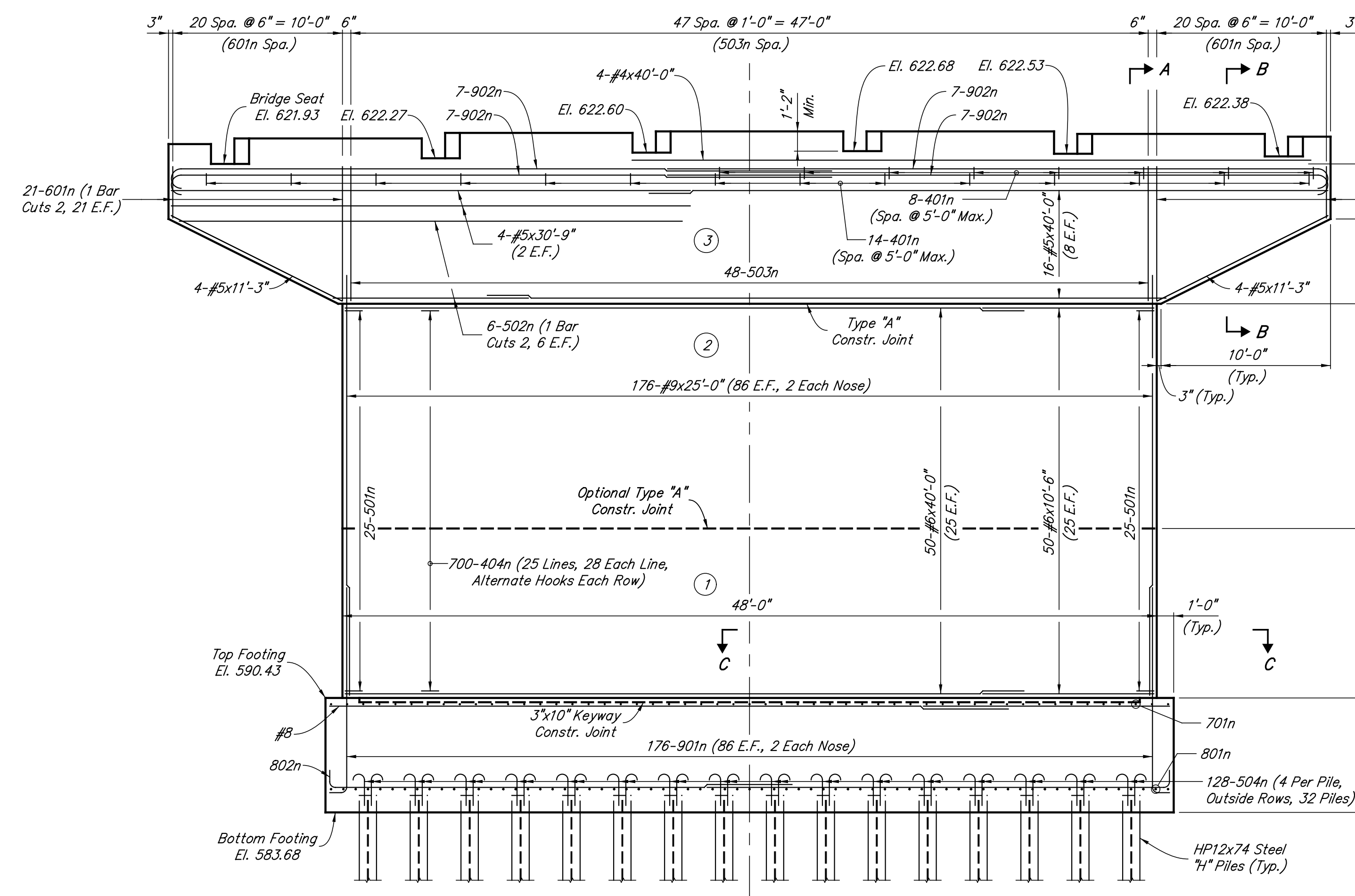
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
DESIGN ENGINEER DATE
DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
PIER NO.7 DETAILS

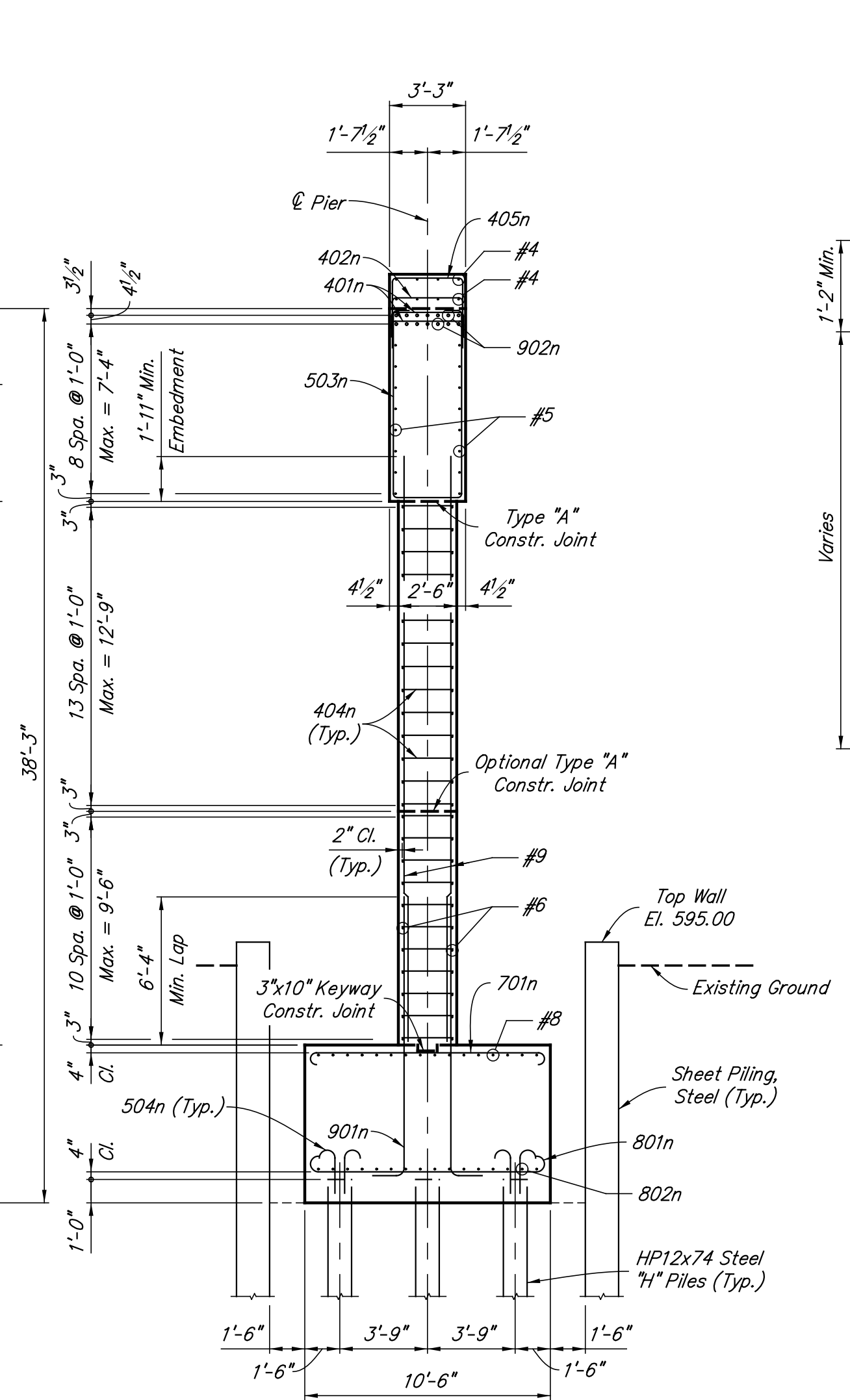
HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 72 of 149
CONTRACT B-33357	PROJECT NO. N881008



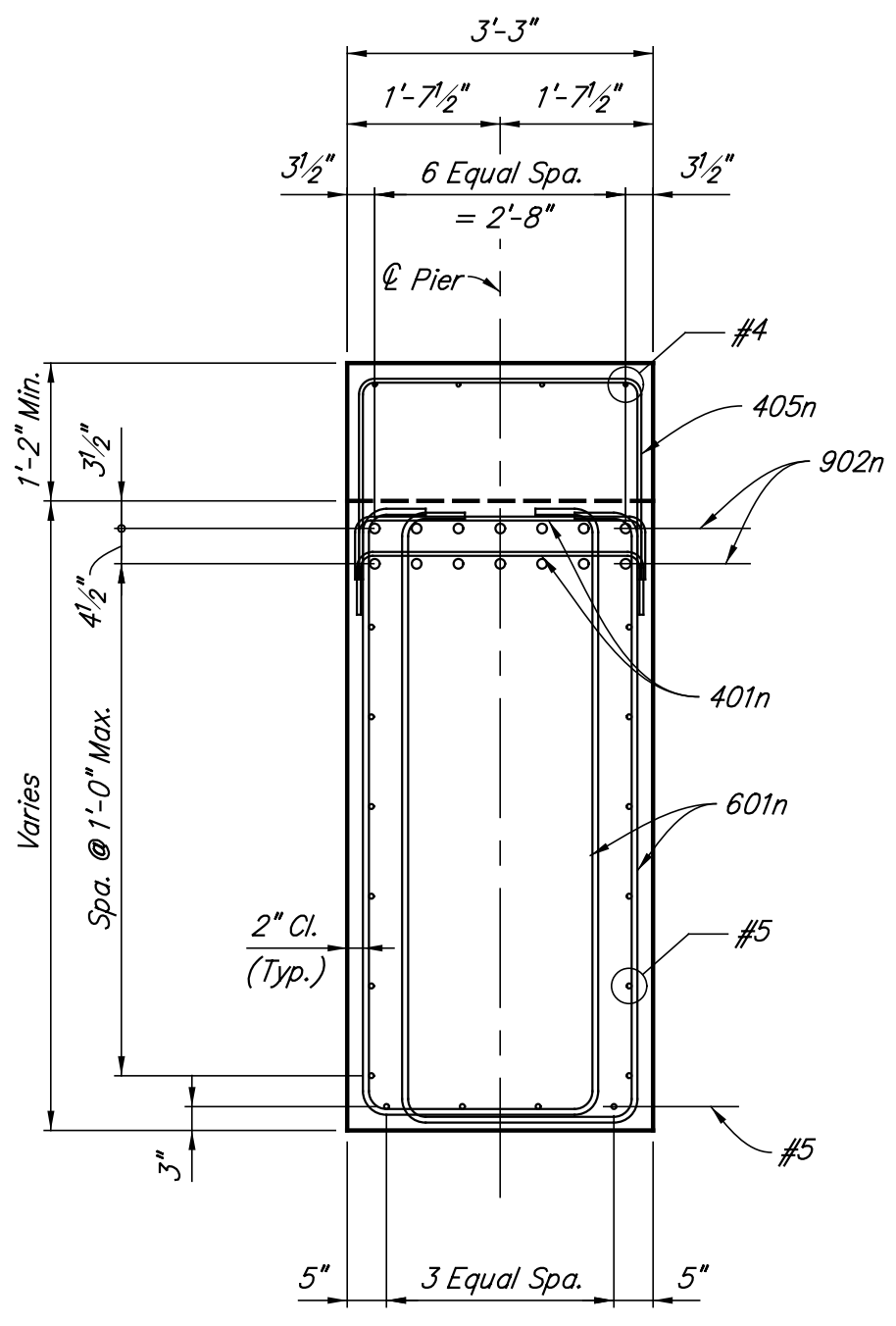
CAP PLAN



ELEVATION



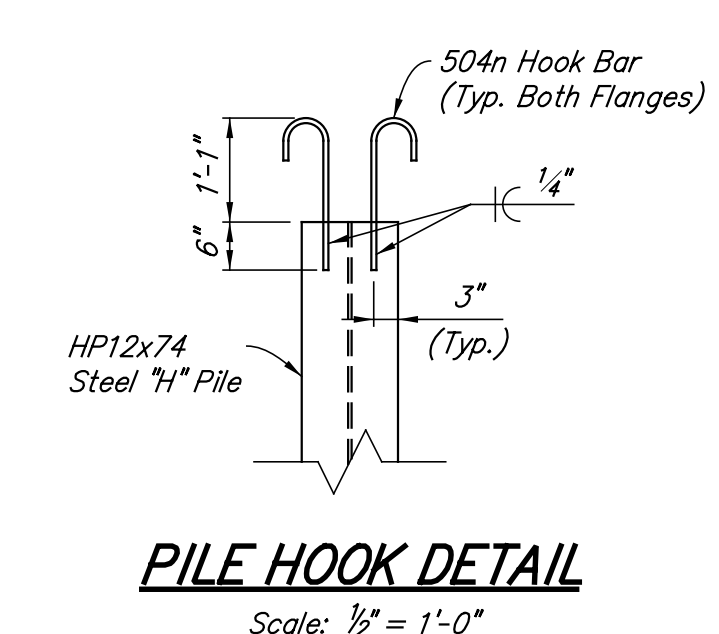
SECTION A-A



SECTION B-B

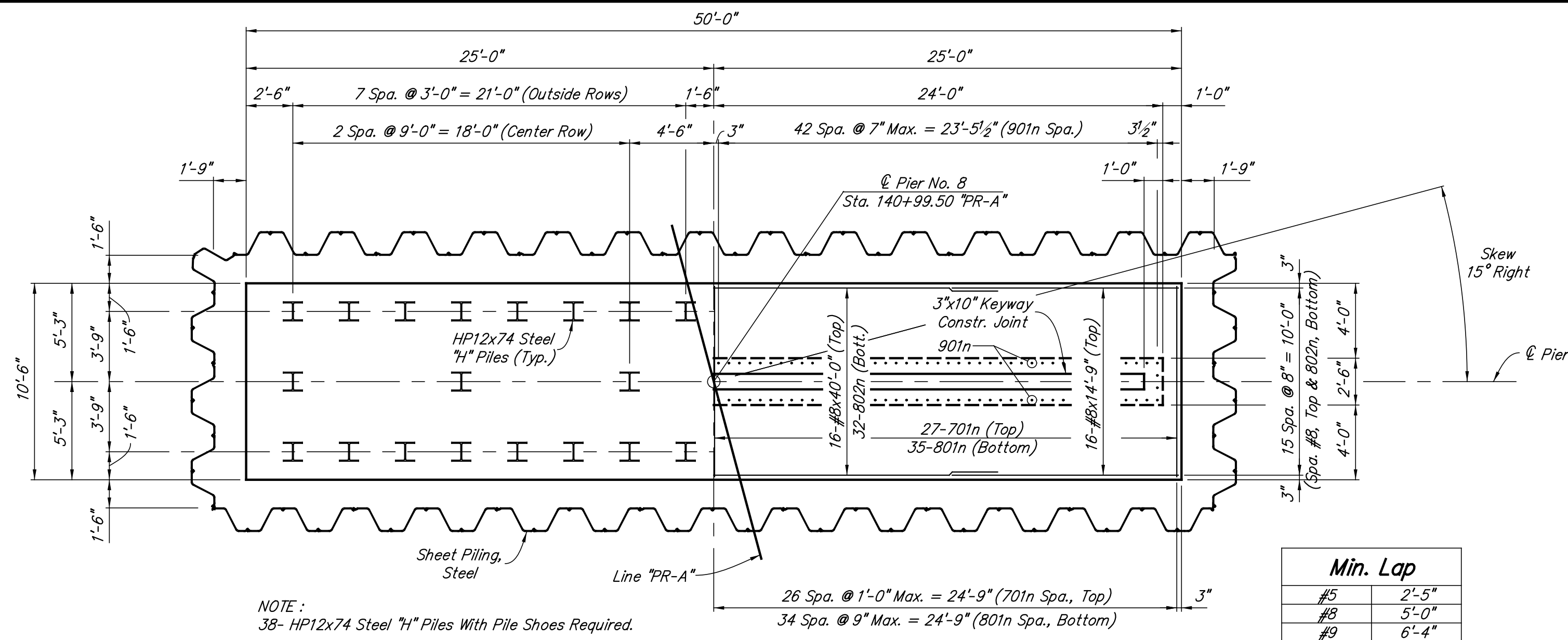
NOTES:
 For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 All reinforcing steel to be plain.
 For Footing Plan, Section C-C, bar bending details and Bill Of Materials, see Sheet No.74.
 Surface seal top and vertical surfaces of pier cap.
 For elastomeric bearing assembly details, see Sheet No.90.
 For pier backfill limits, see Standard Drawing E211-BFL-03.
 (X) Indicates concrete pour number.

Min. Lap	
#5	2'-5"
#8	5'-0"
#9	6'-4"



PILE HOOK DETAIL

	RECOMMENDED FOR APPROVAL Alison M. Krupski DESIGN ENGINEER DATE 6/1/2012	INDIANA DEPARTMENT OF TRANSPORTATION PIER NO.8 DETAILS	HORIZONTAL SCALE 3/16" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
	DESIGNED: AMK DRAWN: DSH CHECKED: RMC CHECKED: AMK		VERTICAL SCALE SURVEY BOOK CONTRACT B-33357	DESIGNATION NO. 0014210 SHEETS 73 of 149 PROJECT NO. N881008

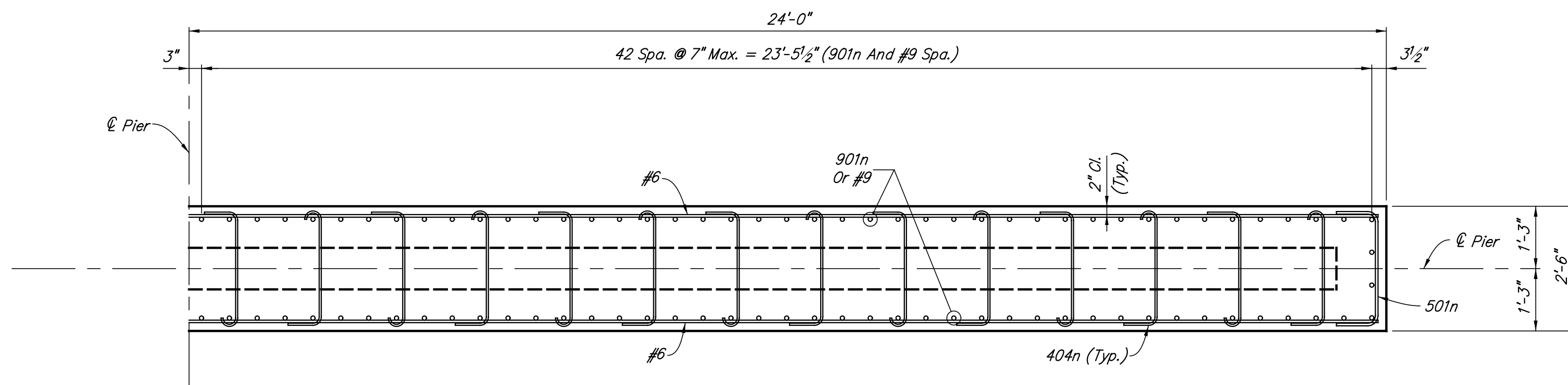


NOTE:
38- HP12x74 Steel 74" Piles With Pile Shoes Required.

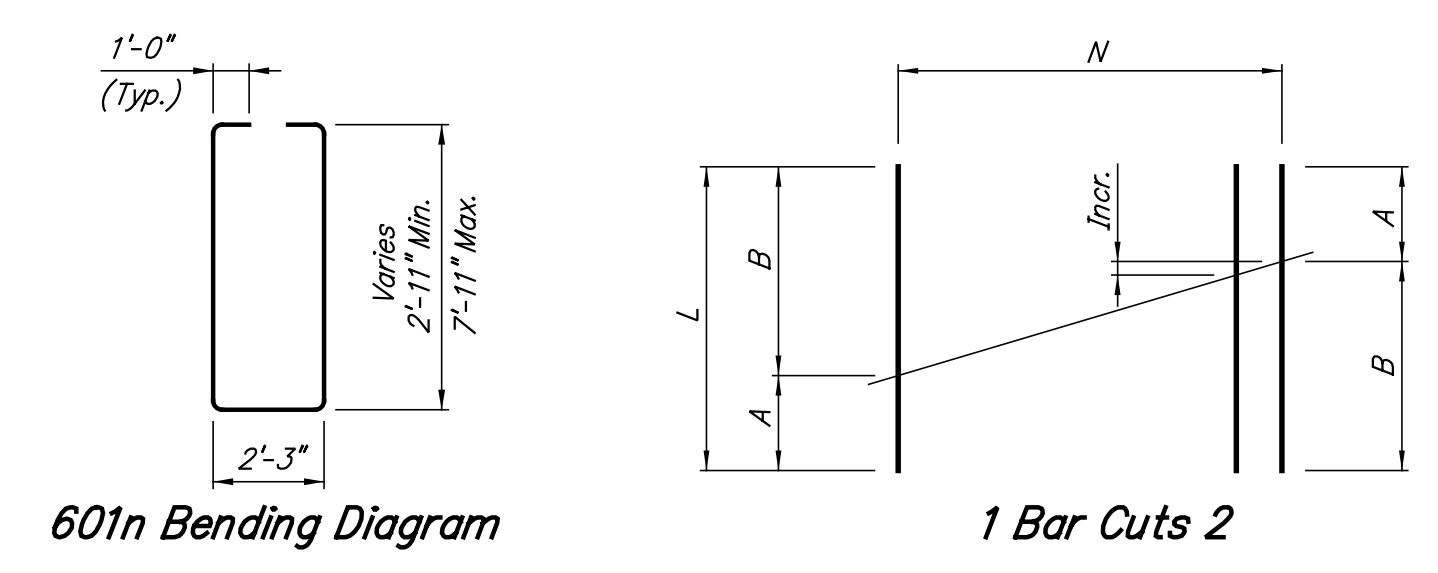
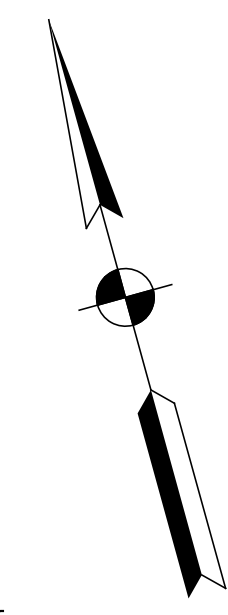
Left Half Showing Pile Spacing Right Half Showing Reinforcing Steel

FOOTING PLAN

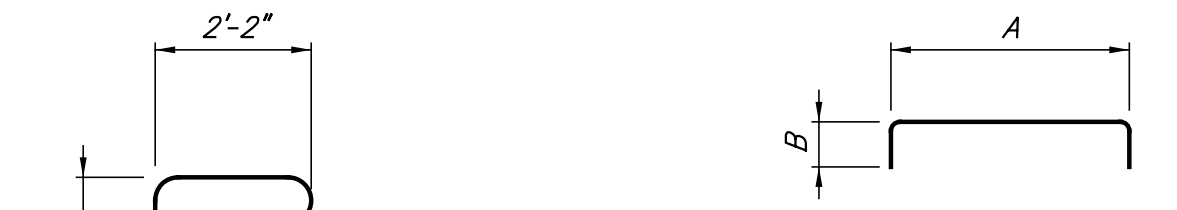
Min. Lap	
#5	2'-5"
#8	5'-0"
#9	6'-4"



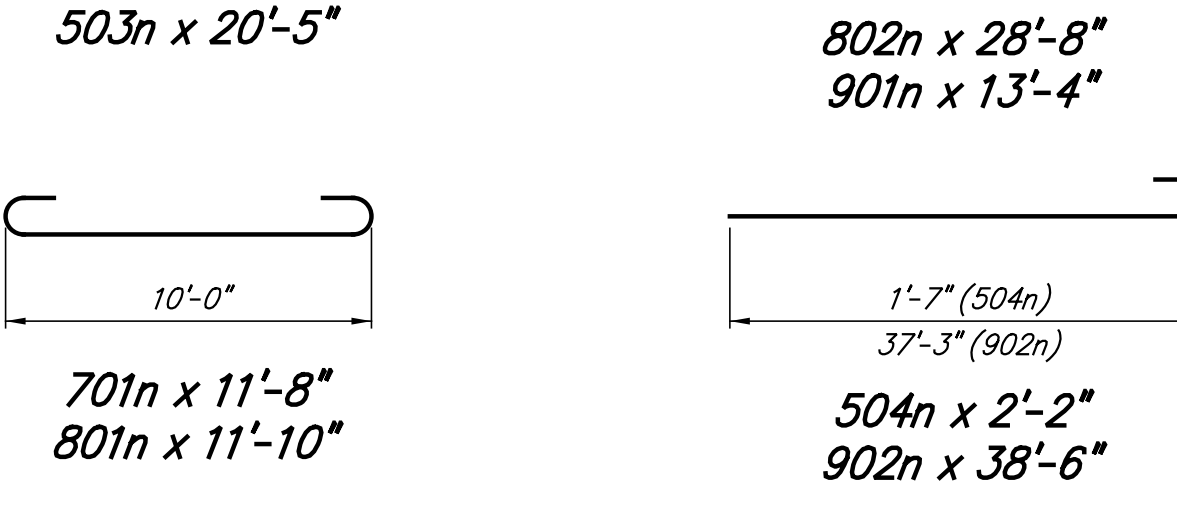
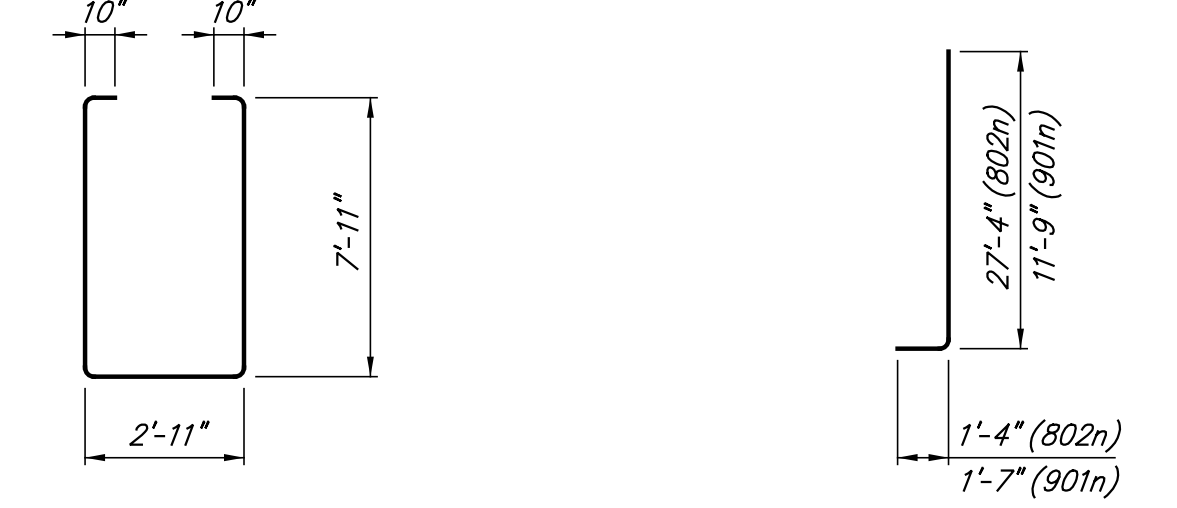
SECTION C-C
Scale: 1/2" = 1'-0"



Mark	L	A	B	Incr.	N
502n	41'-5"	11'-6"	29'-11"	3'-8"±	6
601n	30'-2"	10'-1"	20'-1"	6"±	21



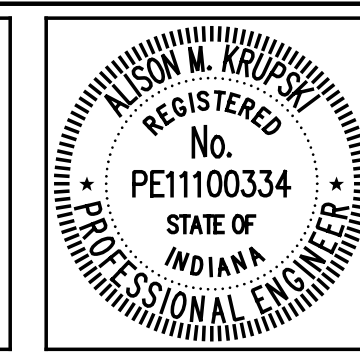
Mark	A	B	Length
401n	2'-11"	8"	4'-3"
402n	2'-11"	1'-2"	5'-3"
405n	2'-11"	2'-0"	6'-11"
501n	2'-2"	10"	3'-10"



**PIER NO.8
BILL OF MATERIALS**

Size And Mark	Plain Reinforcing Steel No. of Bars	Length (Feet)	Weight (Lbs.)
901n	176	13'-4"	
902n	28	38'-6"	
#9	176	25'-0"	
Total No. 9			26604
801n	69	11'-10"	
802n	32	28'-8"	
#8	16	40'-0"	
#8	16	14'-9"	
Total No. 8			6969
701n	53	11'-8"	
Total No. 7			1264
601n	42	30'-2"	
#6	50	40'-0"	
#6	50	10'-6"	
Total No. 6			5696
501n	50	3'-10"	
502n	6	41'-5"	
503n	48	20'-5"	
504n	128	2'-2"	
#5	16	40'-0"	
#5	4	30'-9"	
#5	8	11'-3"	
Total No. 5			2661
401n	56	4'-3"	
402n	57	5'-3"	
404n	700	3'-4"	
405n	61	6'-11"	
#4	4	40'-0"	
#4	20	9'-3"	
#4	2	1'-9"	
#4	2	1'-0"	
Total No. 4			2434
Total Plain Reinforcing Steel			45628
Concrete			
Class "A" in Substructure			
Pour No. 1			44.4 Cys
Pour No. 2			58.9 Cys
Pour No. 3			74.1 Cys
Total Class "A" in Substructure			177.4 Cys
Class "B" in Footing			131.3 Cys
Miscellaneous			
Surface Seal			1540 Sft.
37'-Piles, Steel 74", HP12x74			
x 90'-0" Approximate			3330 Lft.
1-Test Pile, Dynamic, Production			
x 100'-0" Approximate			100 Lft.
Pile Shoe, HP12x74			38 Each

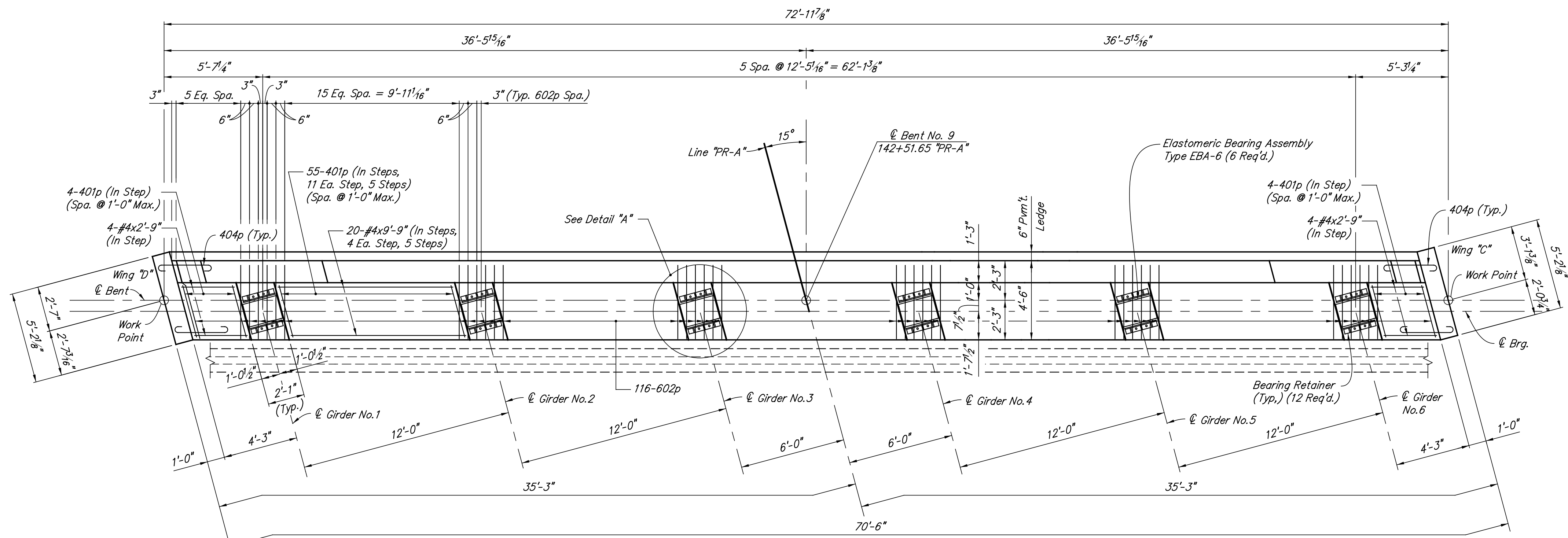
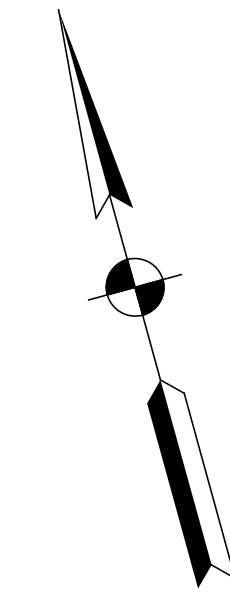
NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be plain.
Surface seal top and vertical surfaces of pier cap.



RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

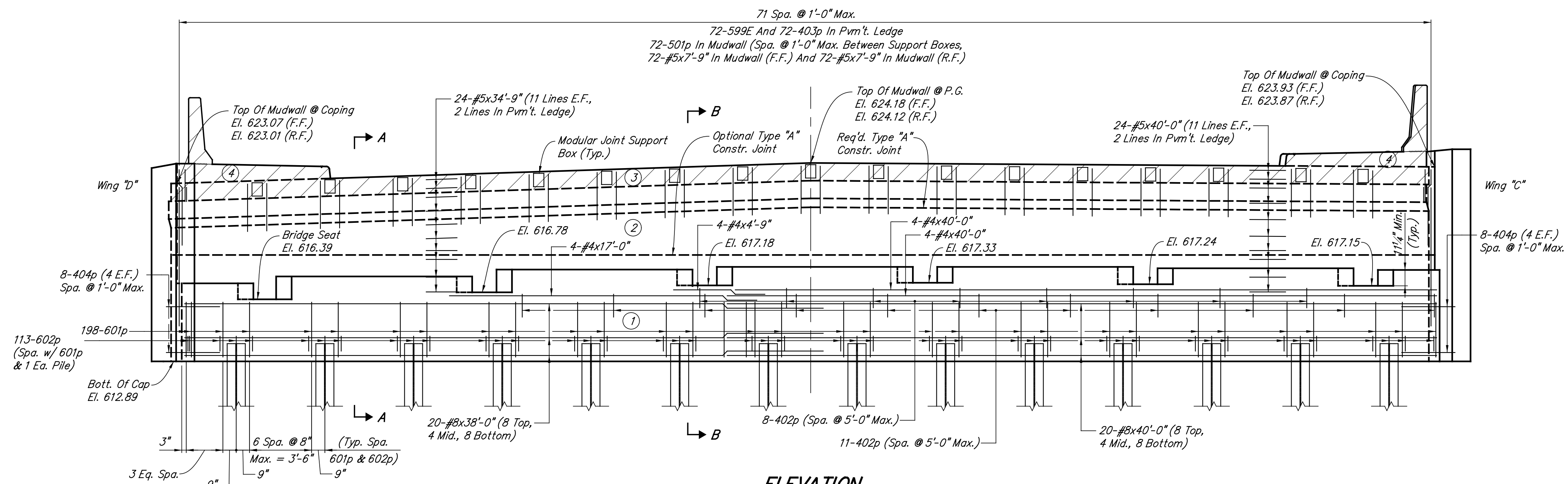
INDIANA
DEPARTMENT OF TRANSPORTATION
PIER NO.8 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	74 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



PLAN

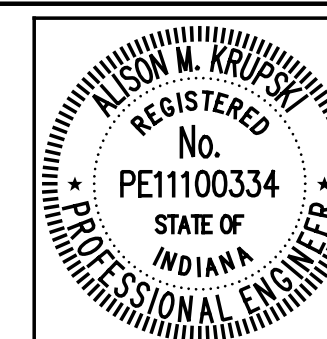
Min. Lap	
#4	1'-8"
#5	2'-0"
#8	5'-5"



ELEVATION

NOTES:

- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
- All reinforcing steel to be epoxy coated.
- Hatched area to be poured with superstructure.
- For Elastomeric Bearing Assembly Details and Bearing Retainer Details, see Sheet No. 90.
- Surface Seal all exposed surfaces of wings, top and front face of mudwall, and exposed surfaces of bent cap.
- For additional details and Bill of Materials, see Sheet No. 76.
- For end bent backfill limits, see Standard Drawing E211-BFIL-04.
- (X) Indicates concrete pour number and sequence of pours.
- For Sections A-A and B-B, see Sheet No. 76.
- For Detail "A", see Sheet No. 59.



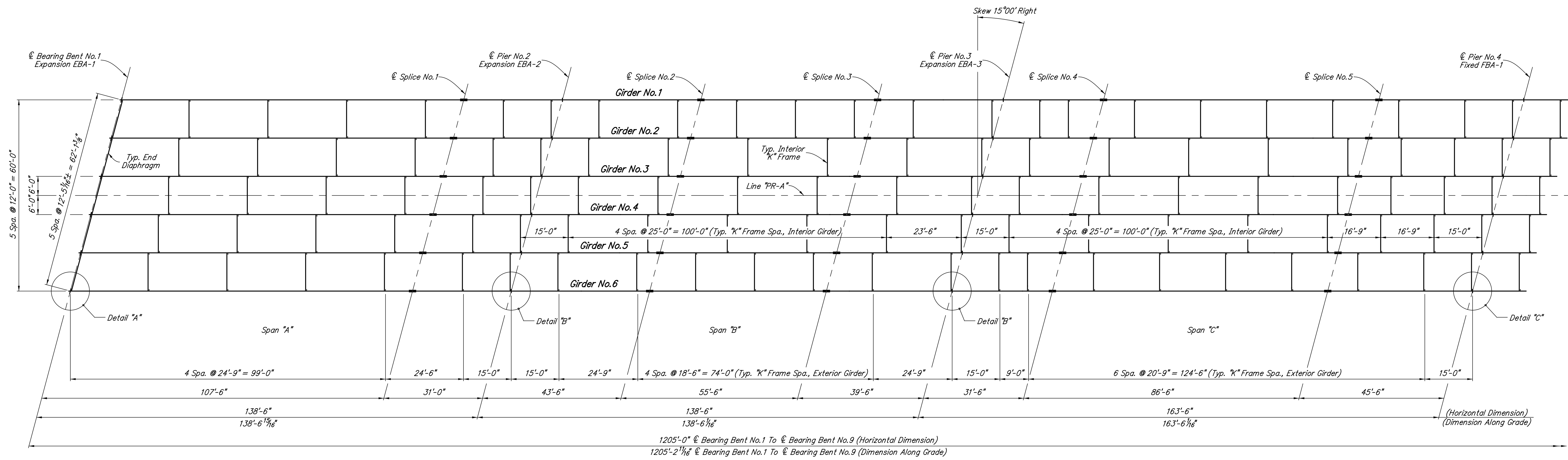
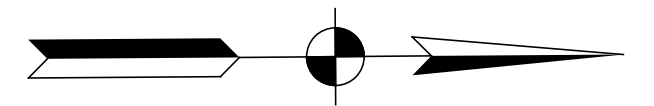
RECOMMENDED FOR APPROVAL
Alison M. Krupski
 DESIGN ENGINEER
 6/1/2012 DATE

DESIGNED: AMK DRAWN: TLH
 CHECKED: RMC CHECKED: AMK

INDIANA
 DEPARTMENT OF TRANSPORTATION

BENT NO. 9 DETAILS

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 75 of 149
CONTRACT B-33357	PROJECT NO. N881008



PARTIAL FRAMING PLAN - SPANS "A", "B" AND "C"

SCREED NOTES

Screed elevations shall be determined by adding concrete dead load deflections to the final concrete elevations at all screed points. Take elevations at screed points on top of beams adjacent to screed points. Subtract these elevations from the elevations corrected for deflection and use the resulting dimension as the height for setting the screed or coping form above that point. This dimension remains constant regardless of how much or in what order the concrete is poured. **DO NOT SET SCREEDS BY LEVELLING.**

No concrete in the floor slab is to be poured until the above operations are completed. Screed elevations will be furnished upon request.

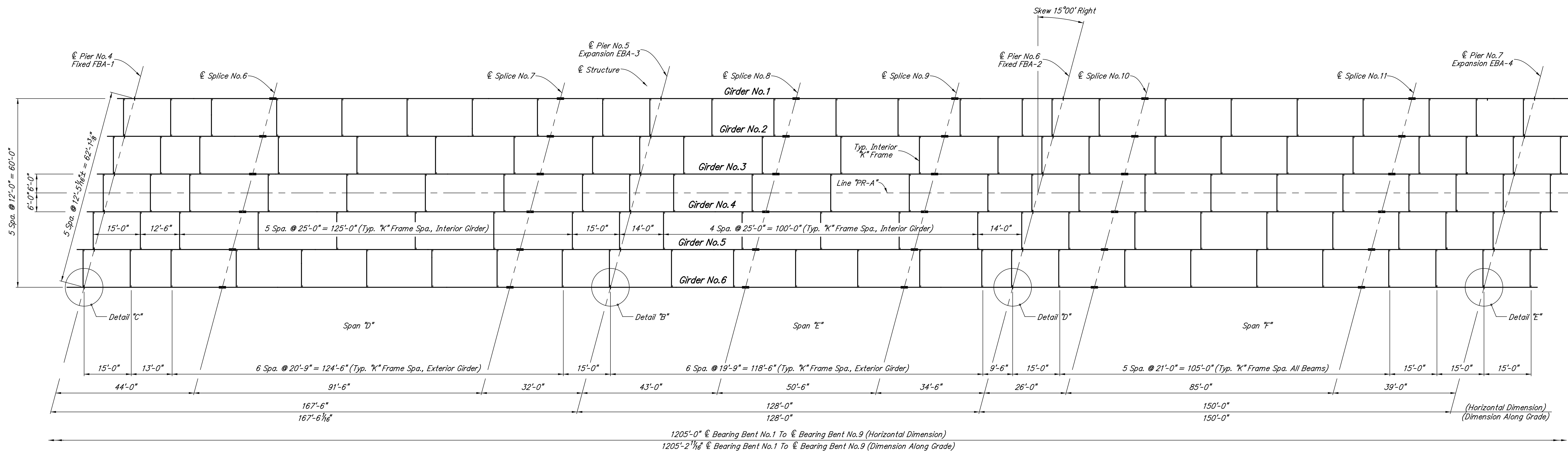
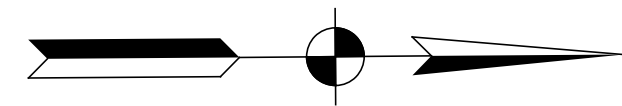
ESTIMATED QUANTITIES

Weight of Structural Steel = 2,676,348 Lbs.
48 Anchor Bolts And
10920 Shear Stud Connectors Installed On Girders To Be Included In The Cost Of "Structural Steel, LSUM".

NOTES :

- For Bearing Details, see Sheets No.90 and 91.
- For Girder Details, see Sheet No.80.
- All structural steel to be A709 Grade 50, Painted, Color 15450 (Light Blue), except as noted.
- The weight of high strength bolts is not included in the estimated weight of structural steel. The cost of these bolts shall be included in the cost of structural steel.
- All dimensions shown are horizontal distances, except as noted.
- For end diaphragm and "K" frame details, see Sheet No.82.
- For Details "A", "B" and "C", see Sheet No.83.

	RECOMMENDED FOR APPROVAL <i>Alison M. Krupski</i> DESIGN ENGINEER DATE 6/1/2012	INDIANA DEPARTMENT OF TRANSPORTATION FRAMING PLAN	HORIZONTAL SCALE 1/16" = 1'-0"	BRIDGE FILE 152-45-02730
	DESIGNED: AMK DRAWN: DSH CHECKED: RMC CHECKED: AMK		VERTICAL SCALE SURVEY BOOK CONTRACT B-33357	DESIGNATION NO. 0014210 SHEETS 77 of 149 PROJECT NO. N881008



PARTIAL FRAMING PLAN - SPANS "D", "E" AND "F"

NOTES:

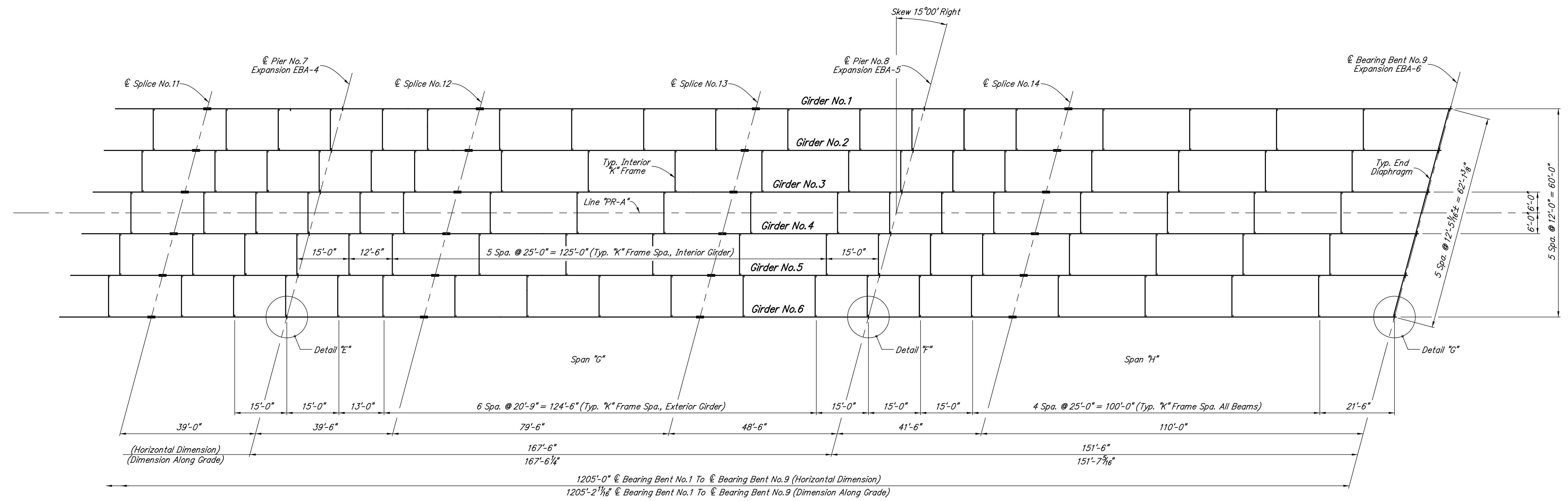
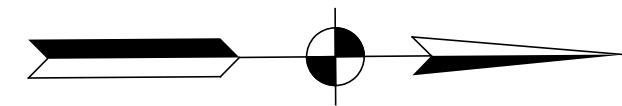
- For Bearing Details, see Sheets No.90 and 91.
- For Girder Details, see Sheet No.80.
- All structural steel to be A709 Grade 50, Painted, Color 15450 (Light Blue), except as noted.
- The weight of high strength bolts is not included in the estimated weight of structural steel. The cost of these bolts shall be included in the cost of structural steel.
- All dimensions shown are horizontal distances, except as noted.
- For "K" frame details, see Sheet No.82.
- For Details "B", "C", "D" and "E", see Sheet No.83.



RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER: *Alison M. Krupski* DATE: 6/1/2012
 DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
FRAMING PLAN

HORIZONTAL SCALE 1/16" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
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PARTIAL FRAMING PLAN - SPANS "G" AND "H"

NOTES:

For Bearing Details, see Sheets No.90 and 91.

For Girder Details, see Sheet No.80.

All structural steel to be A709 Grade 50, Painted, Co; or 15450 (Light Blue), except as noted.

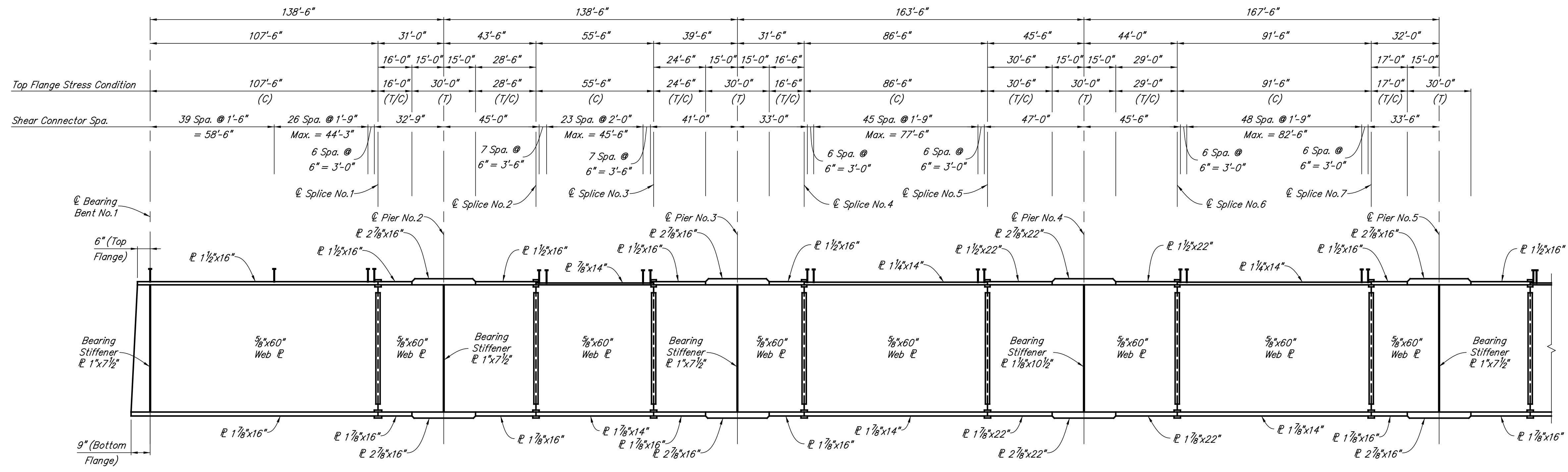
The weight of high strength bolts is not included in the estimated weight of structural steel. The cost of these bolts shall be included in the cost of structural steel.

All dimensions shown are horizontal distances, except as noted.

For end diaphragm and "K" frame details, see Sheet No.82.

For Details "E", "F" and "G", see Sheet No.83.

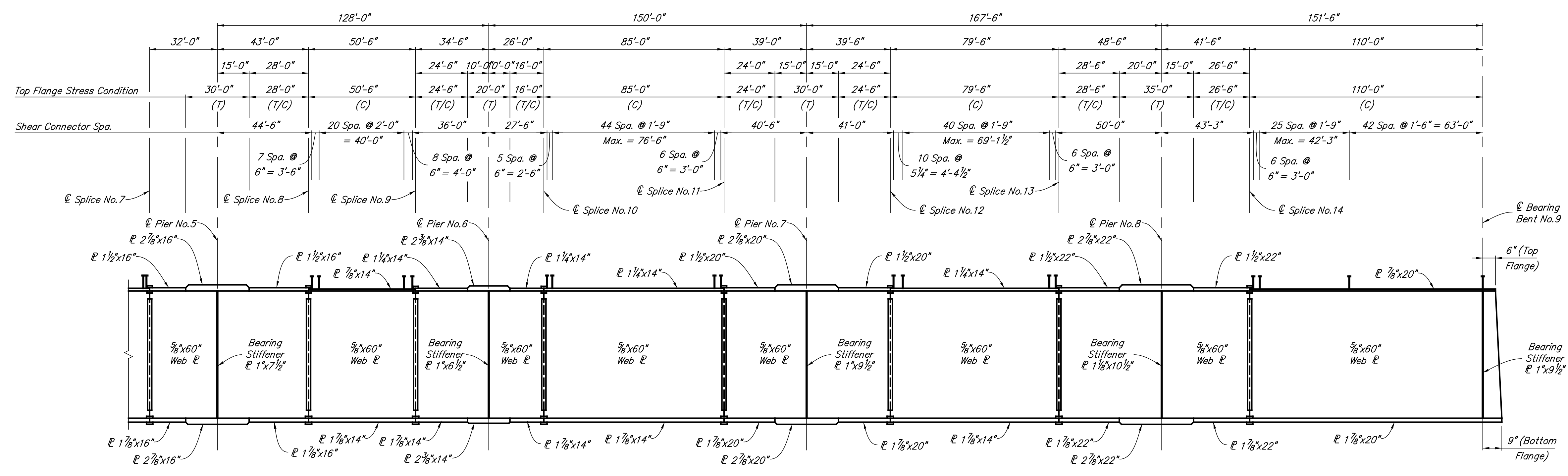
	RECOMMENDED FOR APPROVAL <i>Alison M. Krupski</i> 6/1/2012 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1/16" = 1'-0"	BRIDGE FILE 152-45-02730
	DESIGNED: AMK DRAWN: DSH CHECKED: RMC CHECKED: AMK		FRAMING PLAN	VERTICAL SCALE
			SURVEY BOOK 	SHEETS 79 of 149
			CONTRACT B-33357	PROJECT NO. N881008



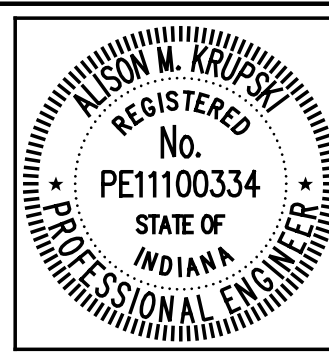
TYPICAL GIRDER ELEVATION - SPANS "A"-"D"

LEGEND
 T = Tension
 T/C = Tension and Compression (Reversal)
 C = Compression

NOTES:
 All structural steel shall conform to ASTM A-709, Grade 50, Painted, Color 15450 (Light Blue), except as noted.
 All dimensions are horizontal, except as noted.
 All dimensions are along centerline of girders.



TYPICAL GIRDER ELEVATION - SPANS "E"-"H"



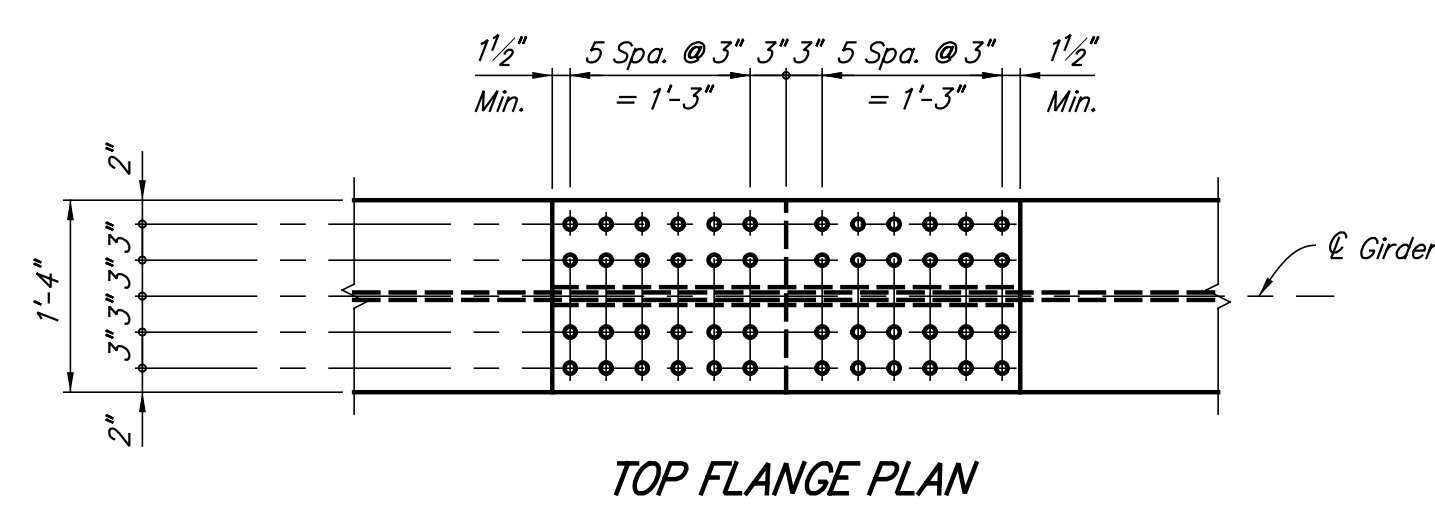
RECOMMENDED FOR APPROVAL
 Alison M. Krupski
 DESIGN ENGINEER
 6/1/2012
 DATE

DESIGNED: AMK
 DRAWN: DSH
 CHECKED: RMC
 CHECKED: AMK

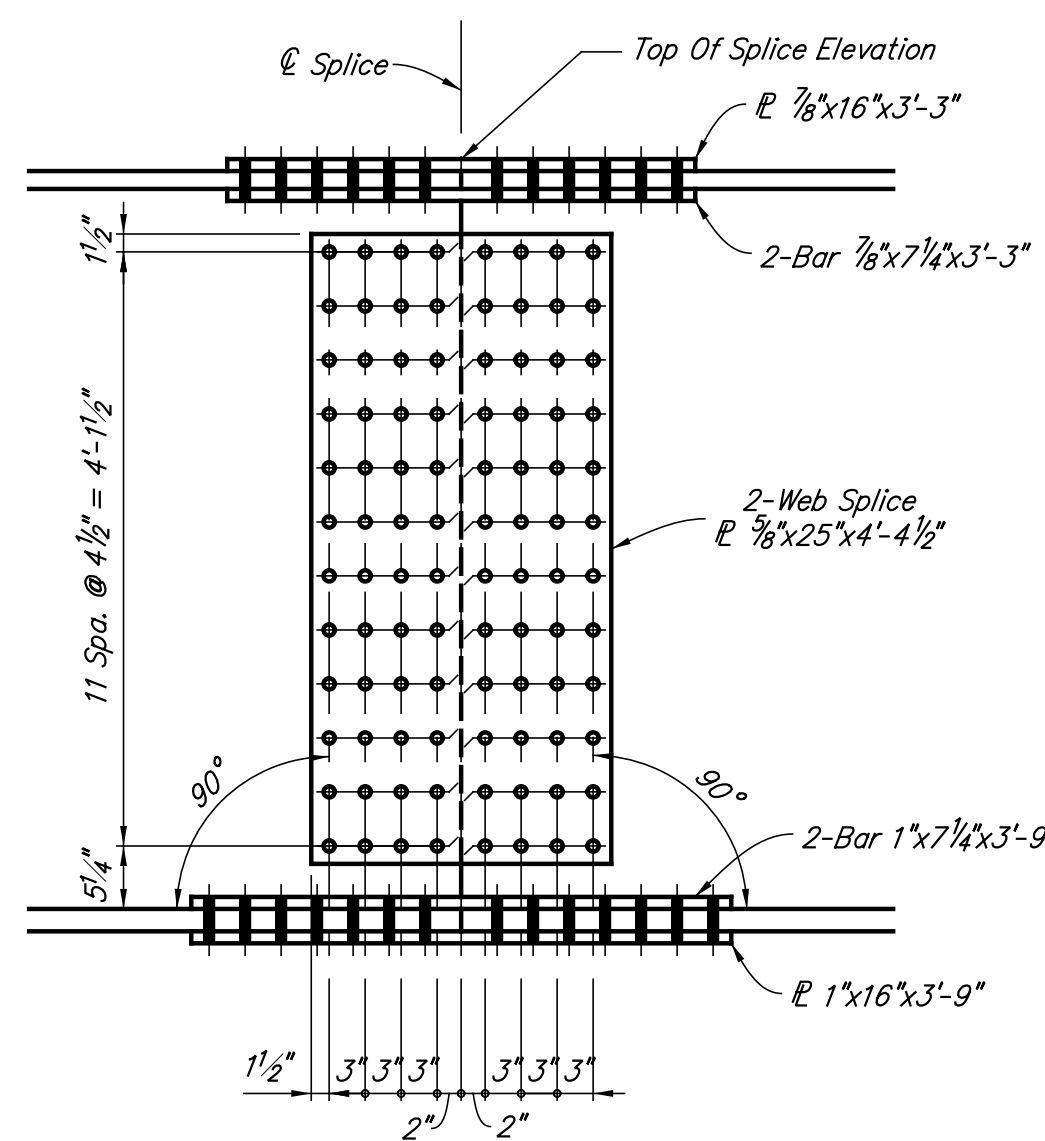
INDIANA
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

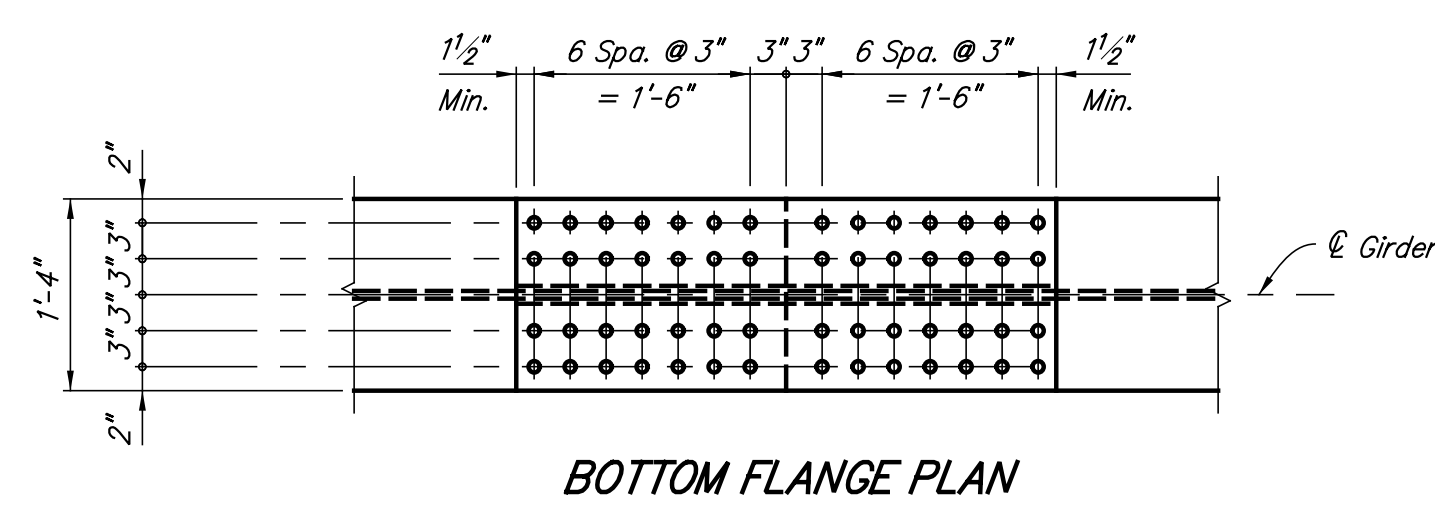
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NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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TOP FLANGE PLAN

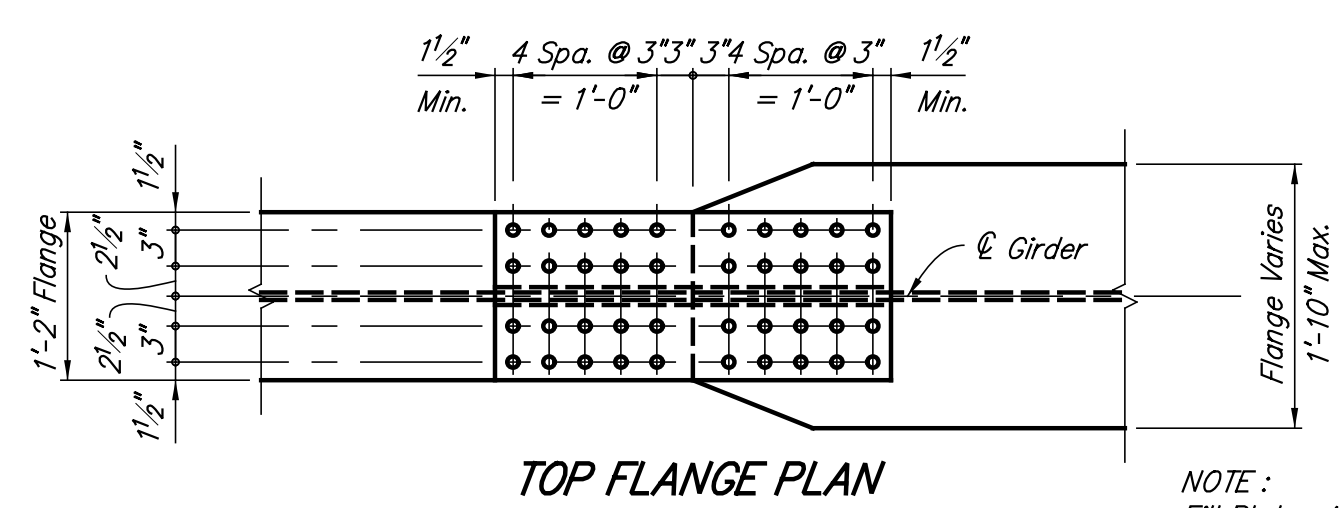


ELEVATION

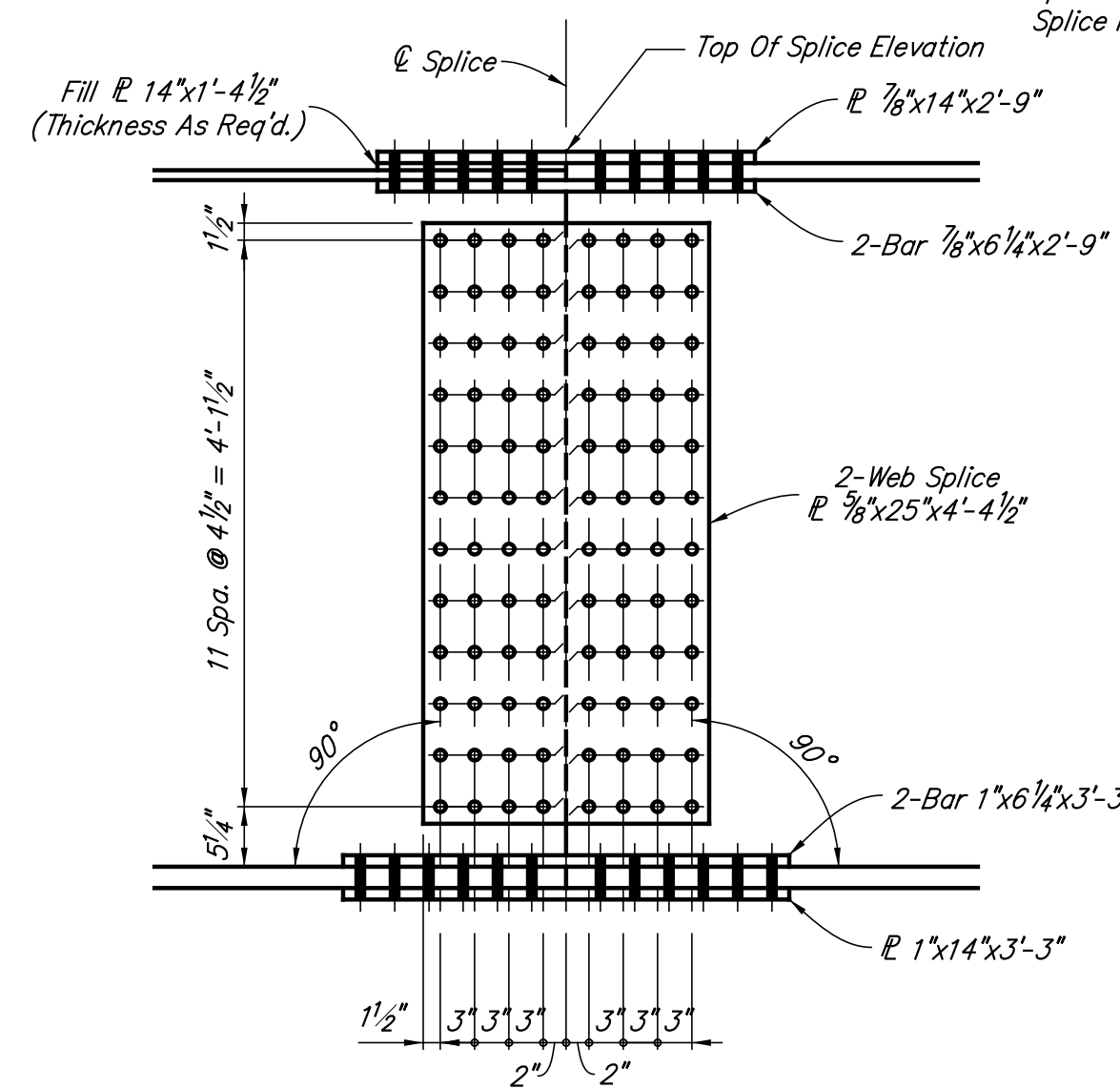


BOTTOM FLANGE PLAN

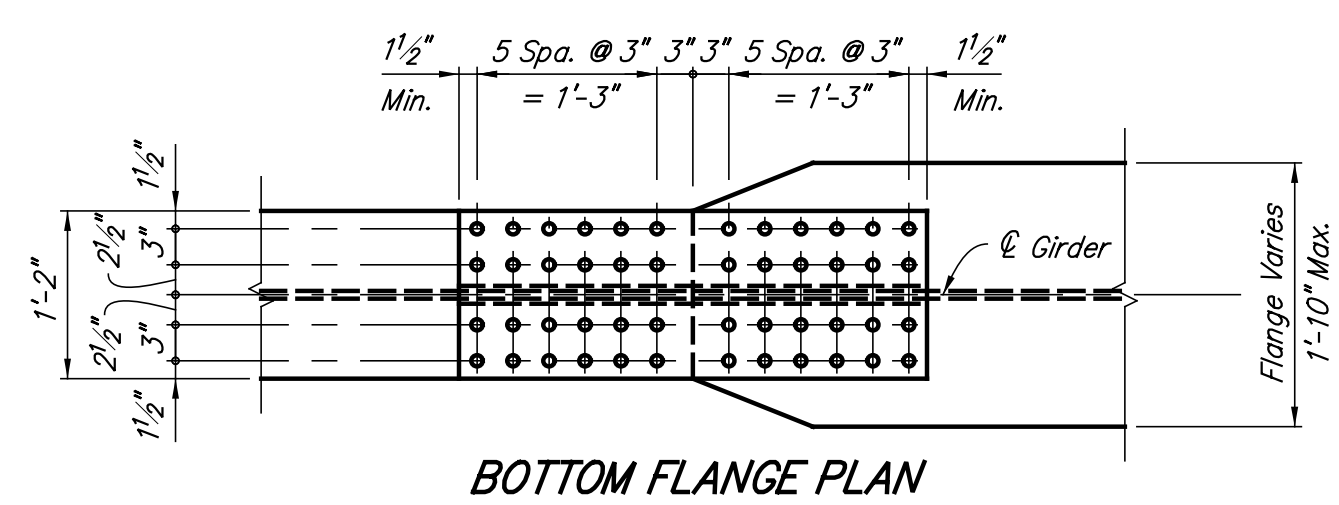
SPLICE NO.1 DETAILS



TOP FLANGE PLAN



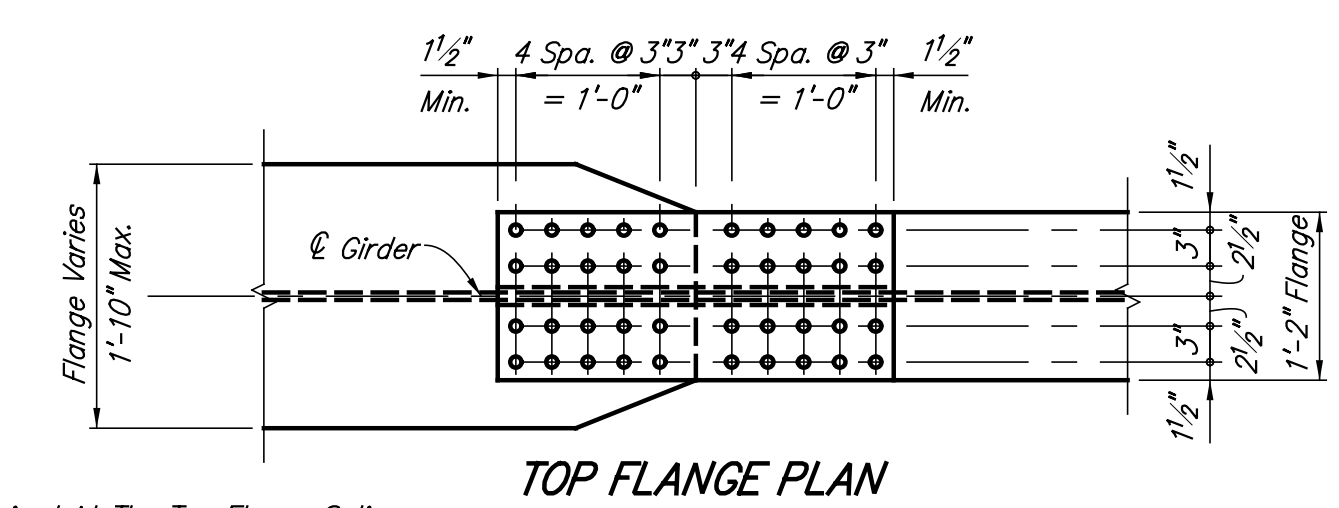
ELEVATION



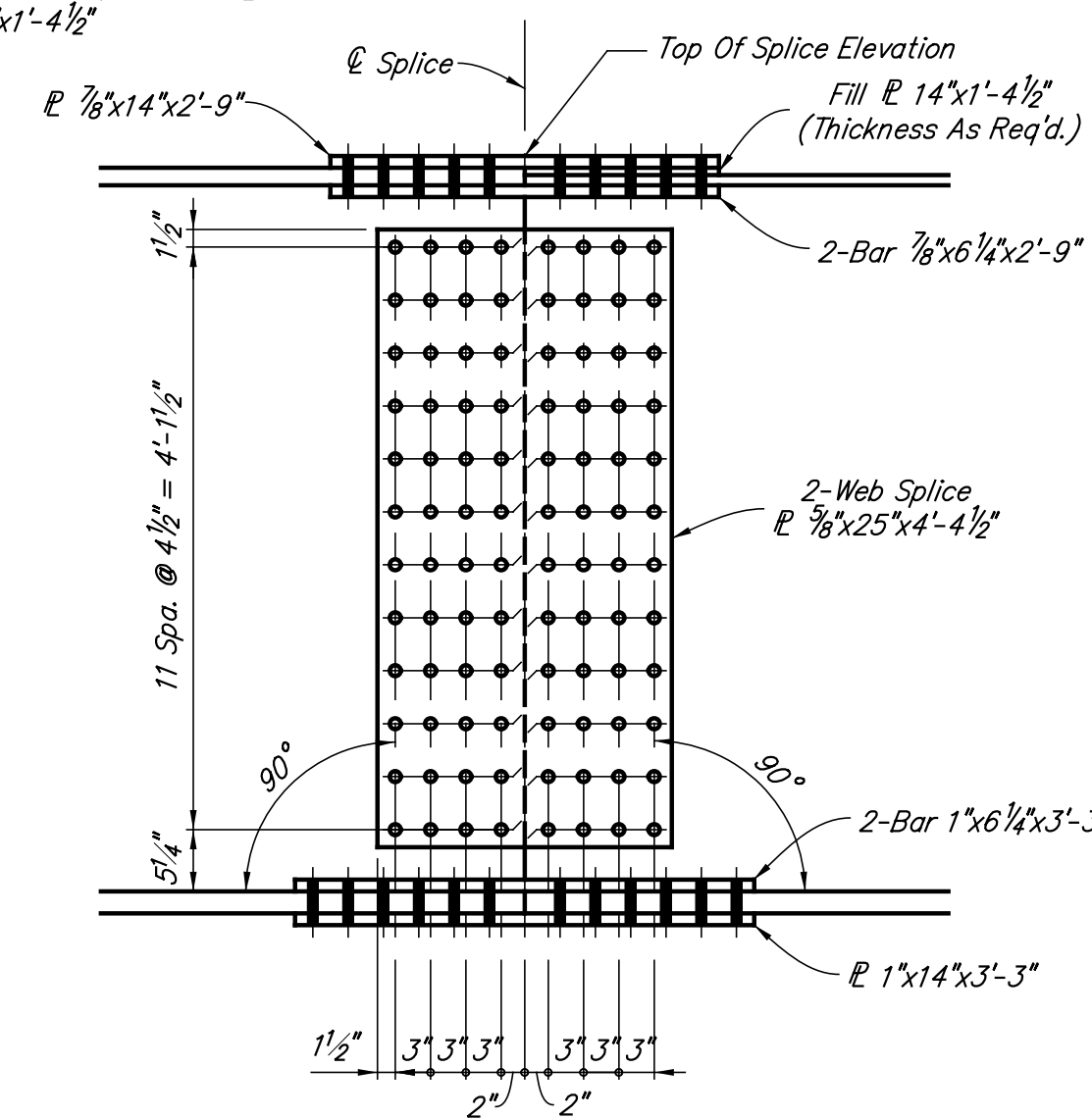
BOTTOM FLANGE PLAN

SPLICE NO.3, 5, 7, 9, 11 AND 13 DETAILS

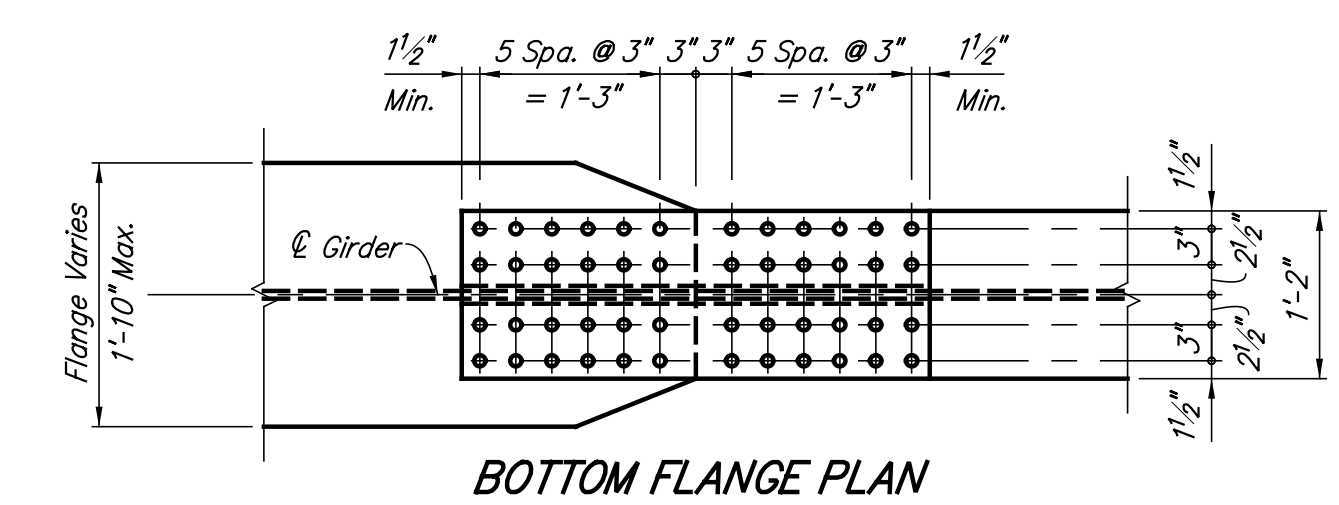
NOTE:
Fill Plates Are Required At The Top Flange Splice At The Following Locations:
Splice Nos. 2, 3 And 8 Require $\frac{7}{8}$ "x14"x1'-4 1/2"
Splice Nos. 4-7 And 11-13 Require $\frac{7}{8}$ "x14"x1'-4 1/2"
Splice No. 9 Requires $\frac{7}{8}$ "x14"x1'-4 1/2"



TOP FLANGE PLAN

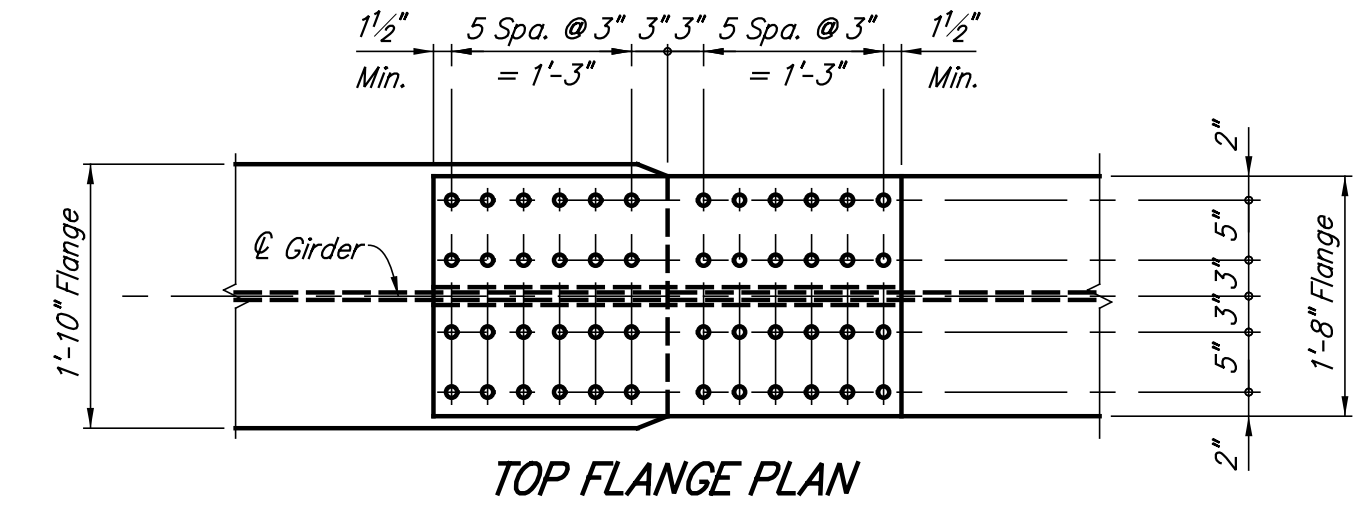


ELEVATION

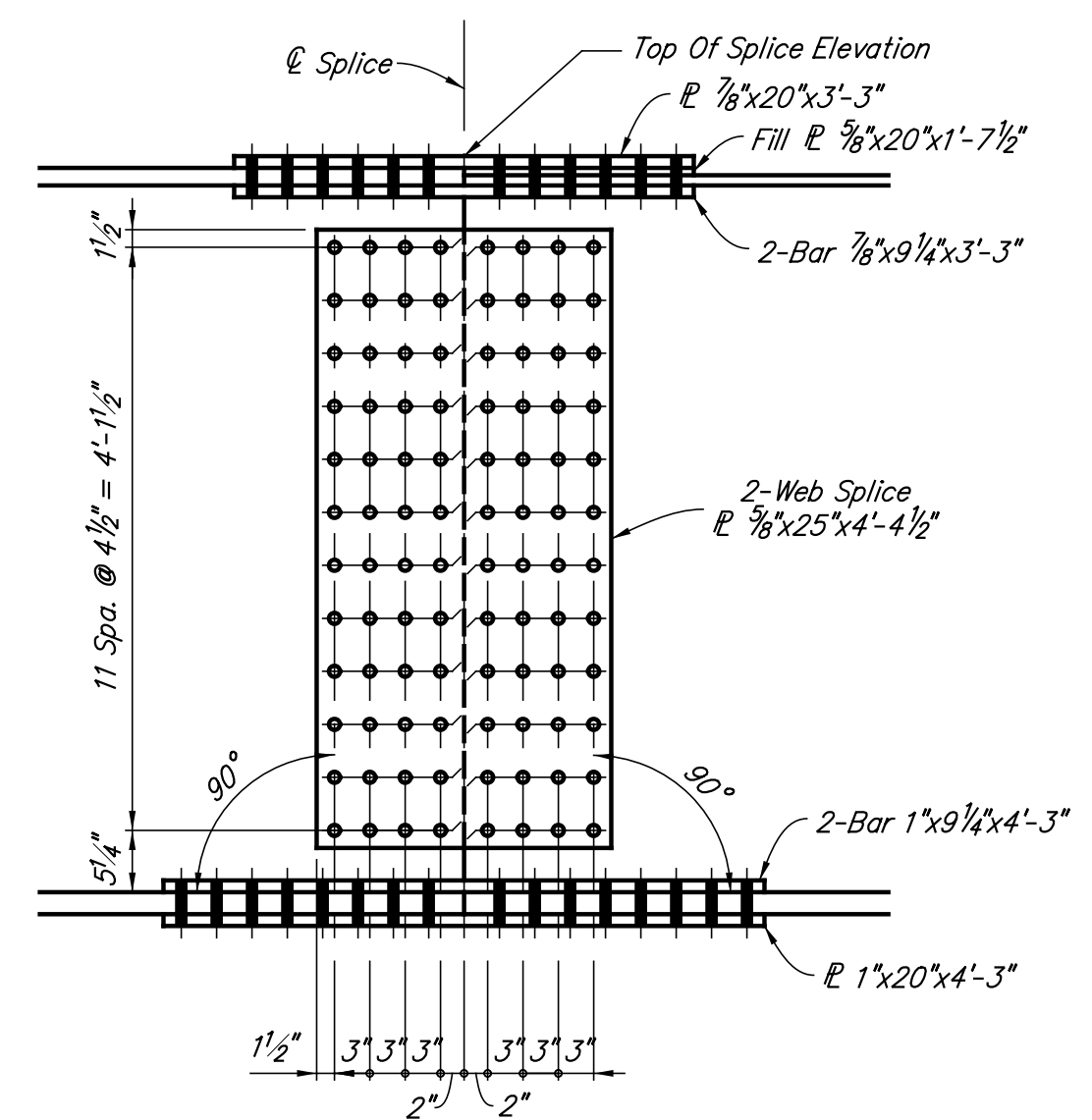


BOTTOM FLANGE PLAN

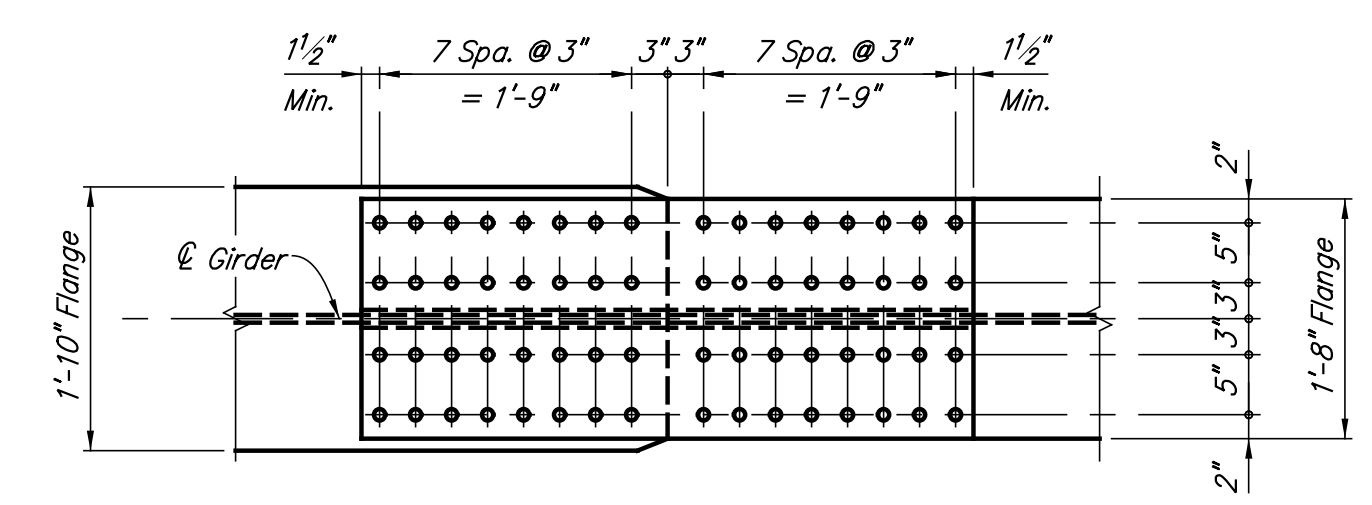
SPLICE NO.2, 4, 6, 8, 10 AND 12 DETAILS



TOP FLANGE PLAN



ELEVATION

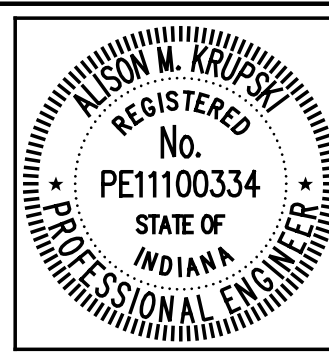


BOTTOM FLANGE PLAN

SPLICE NO.14 DETAILS

TOP OF SPLICE ELEVATIONS ($\pm \frac{1}{4}$ "						
Location	Girder No.1	Girder No.2	Girder No.3	Girder No.4	Girder No.5	Girder No.6
Splice No.1	626.786	626.954	627.119	627.043	626.724	626.402
Splice No.2	627.662	627.883	628.101	628.077	627.811	627.543
Splice No.3	627.992	628.213	628.434	628.415	628.156	627.898
Splice No.4	628.528	628.750	628.971	628.952	628.693	628.434
Splice No.5	629.047	629.268	629.489	629.471	629.212	628.953
Splice No.6	629.604	629.825	630.047	630.028	629.769	629.510
Splice No.7	630.125	630.346	630.567	630.549	630.290	630.031
Splice No.8	630.402	630.623	630.845	630.826	630.567	630.308
Splice No.9	630.681	630.903	631.124	631.105	630.846	630.587
Splice No.10	631.136	631.357	631.578	631.560	631.301	631.042
Splice No.11	631.499	631.741	631.982	631.982	631.740	631.497
Splice No.12	630.986	631.262	631.537	631.570	631.362	631.153
Splice No.13	629.659	629.969	630.278	630.345	630.171	629.996
Splice No.14	627.254	627.603	627.951	628.057	627.921	627.784

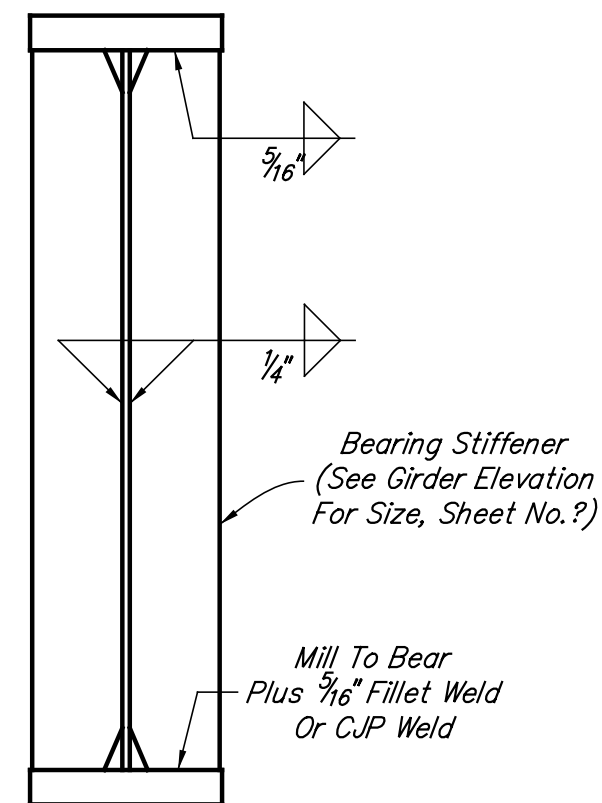
NOTES:
All bolted splice connections to be Class B connection.
All bolts for splice connections to be $\frac{7}{8}$ " diameter A325, Type 1 bolts.
All open holes to be $\frac{1}{16}$ " diameter, unless noted.
All splice plate material to be A709 Grade 50, Painted, Color 15450 (Light Blue).



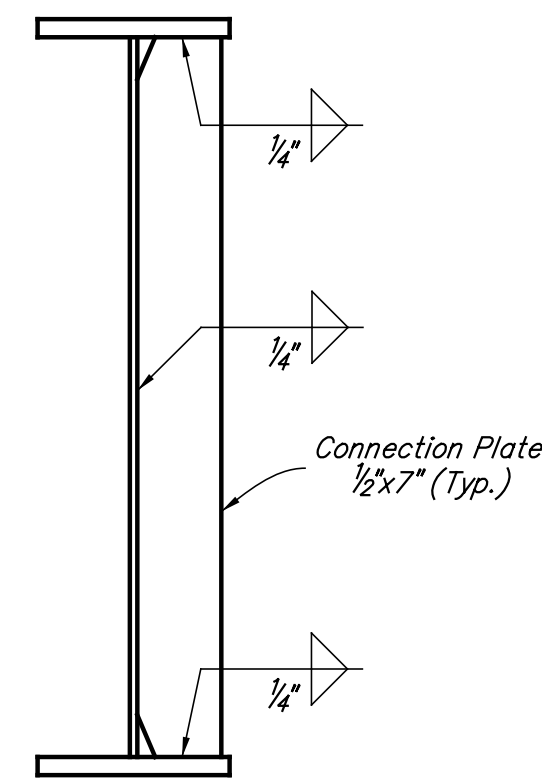
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012 DATE
DESIGNED: AMK DRAWN: DSH
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INDIANA DEPARTMENT OF TRANSPORTATION
STRUCTURAL STEEL DETAILS

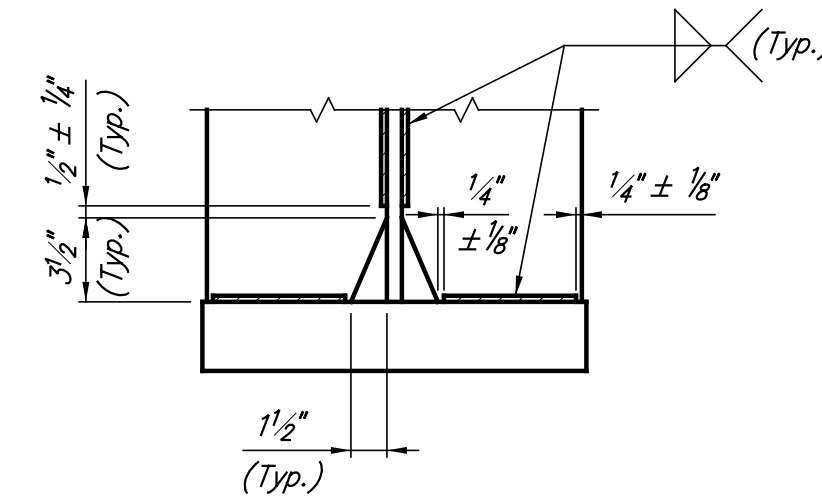
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VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 81 of 149
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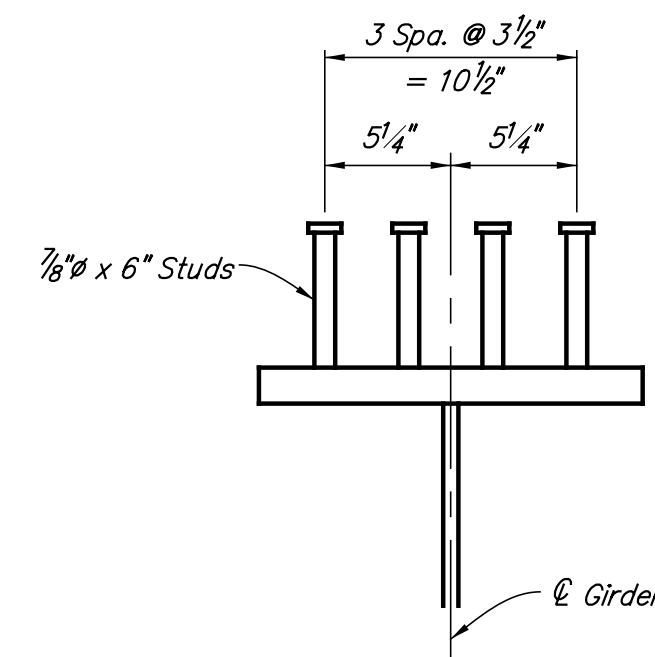
TYPICAL BEARING STIFFENER DETAIL



TYPICAL CONNECTION PLATE DETAIL



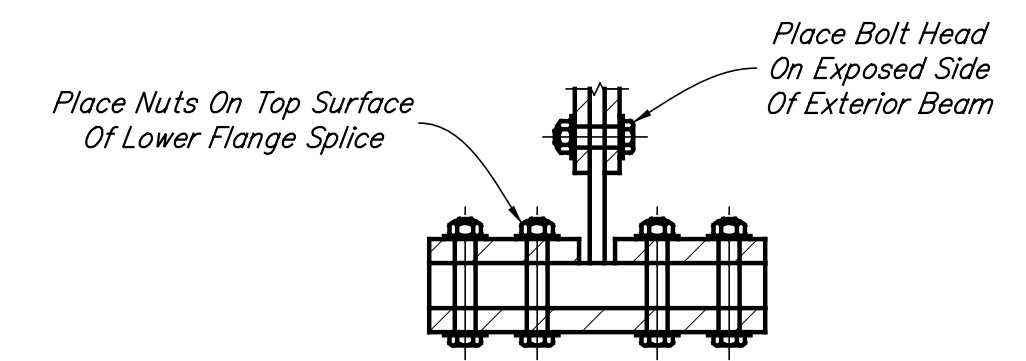
TYPICAL DETAIL AT END OF BEARING STIFFENER OR CONNECTION PLATE
Scale: 1 1/2" = 1'-0"



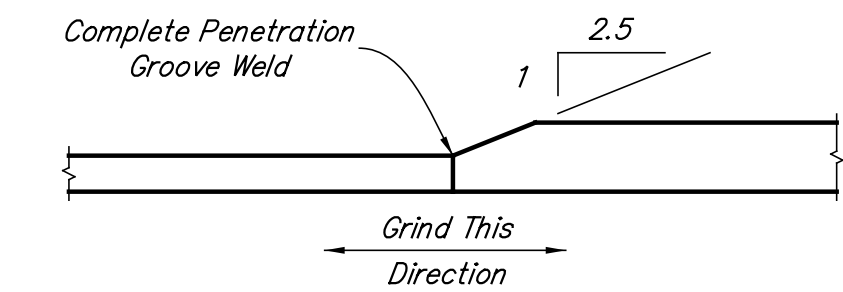
The contractor may elect to use welded channels or 3/4 diameter welded studs as alternate shear connectors. If used, they shall have equivalent shear value and the proposed size and spacing submitted for approval.

The shear connectors shall be placed along the skew.

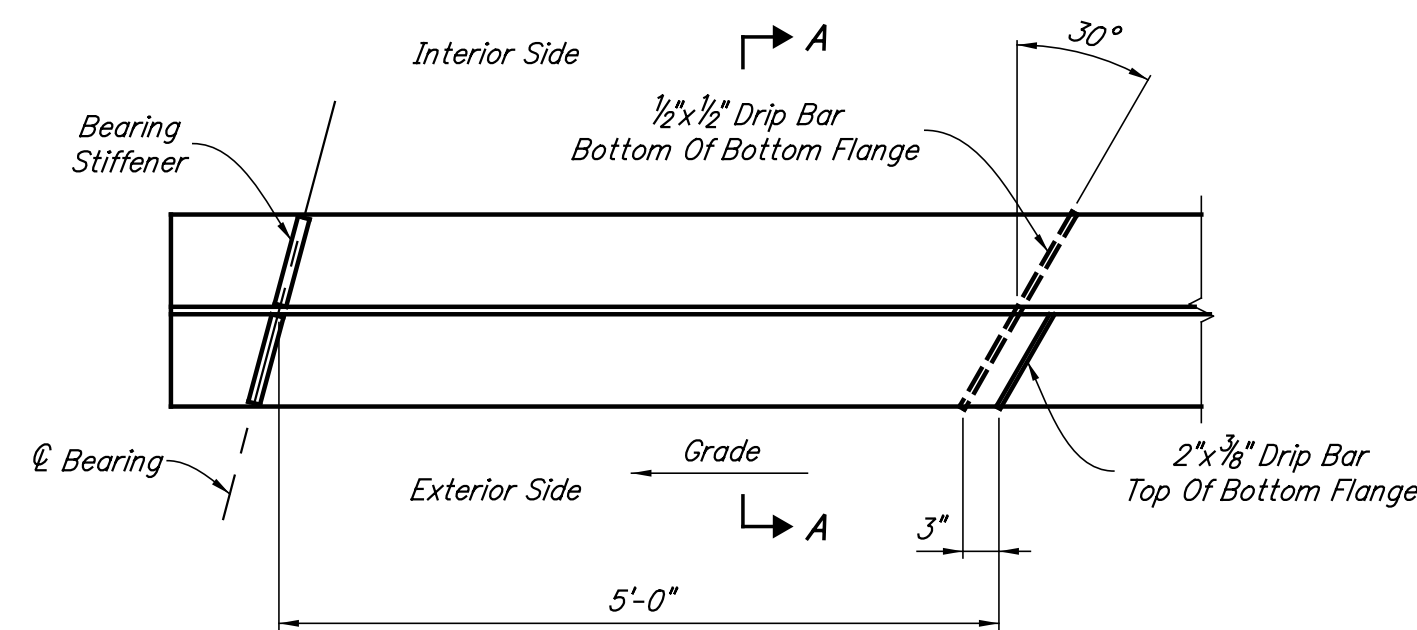
TYPICAL SHEAR CONNECTOR DETAIL
Scale: 1 1/2" = 1'-0"



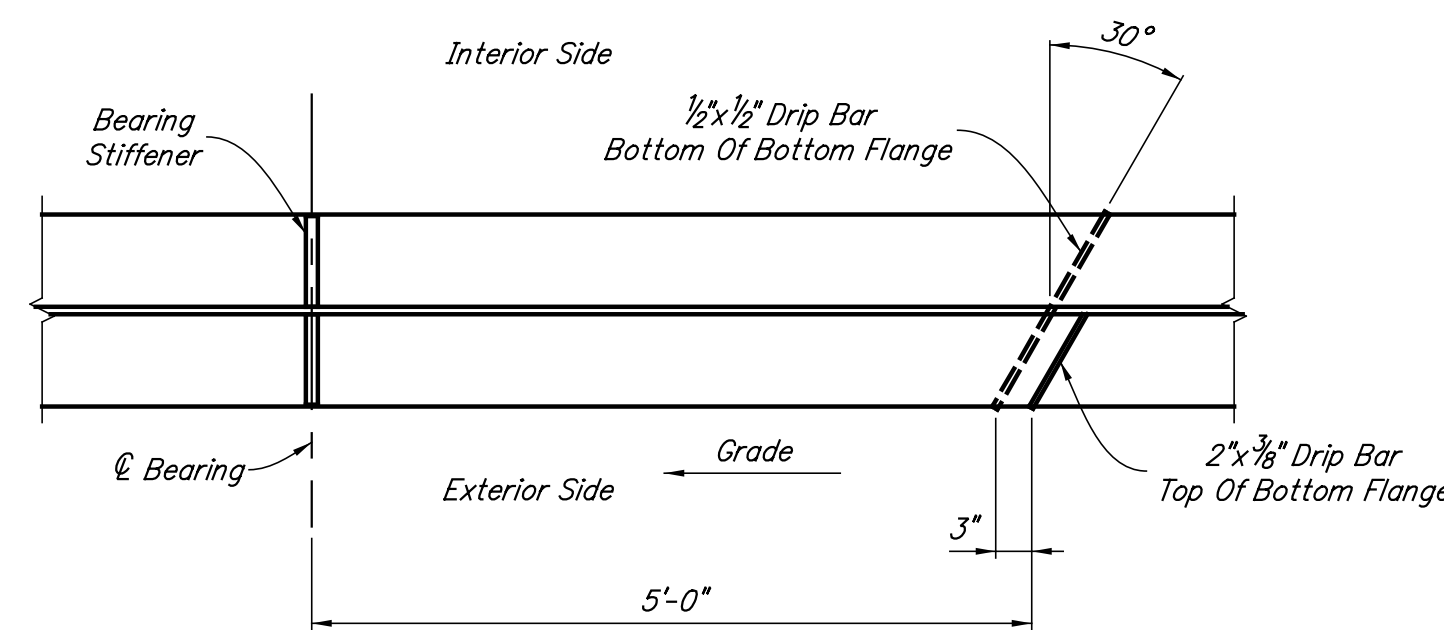
BOLTED SPLICE DETAIL
Scale: 1 1/2" = 1'-0"



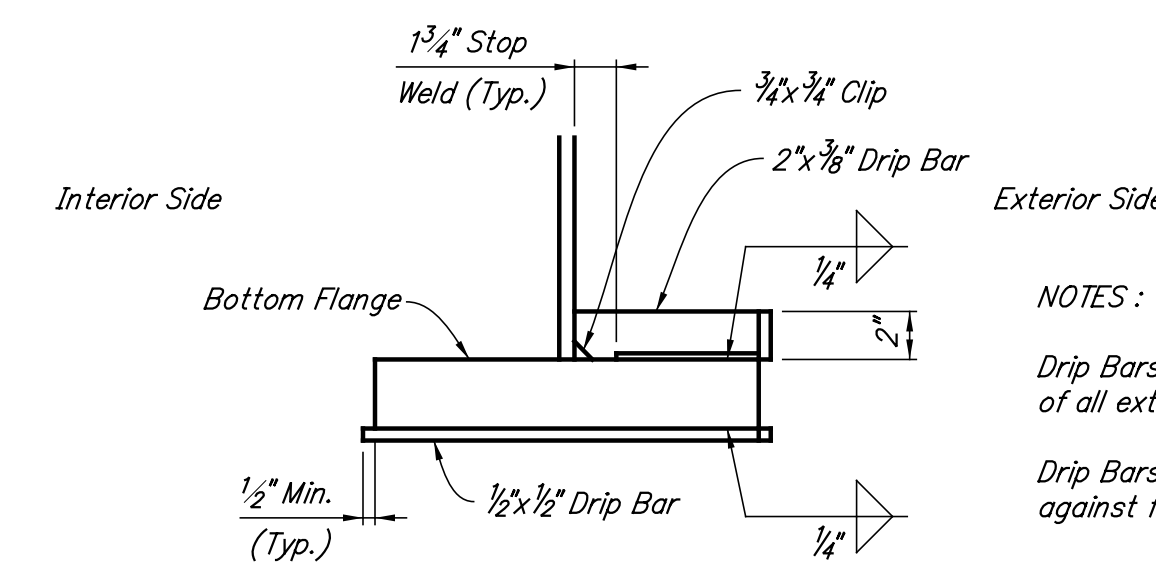
FLANGE THICKNESS TRANSITION DETAIL
No Scale



TYPICAL DRIP BAR DETAIL AT END BENTS



TYPICAL DRIP BAR DETAIL AT PIERS

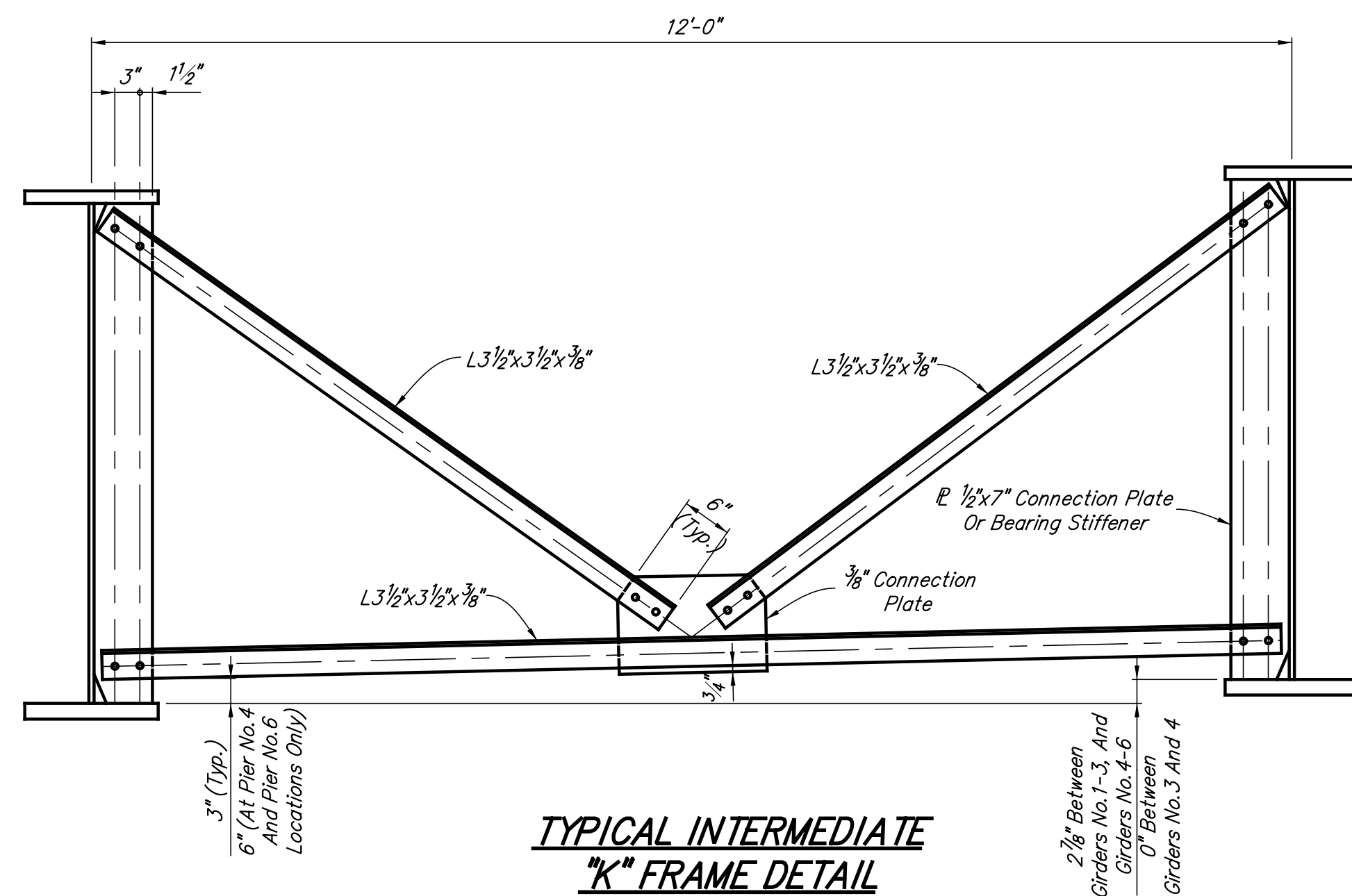


NOTES:

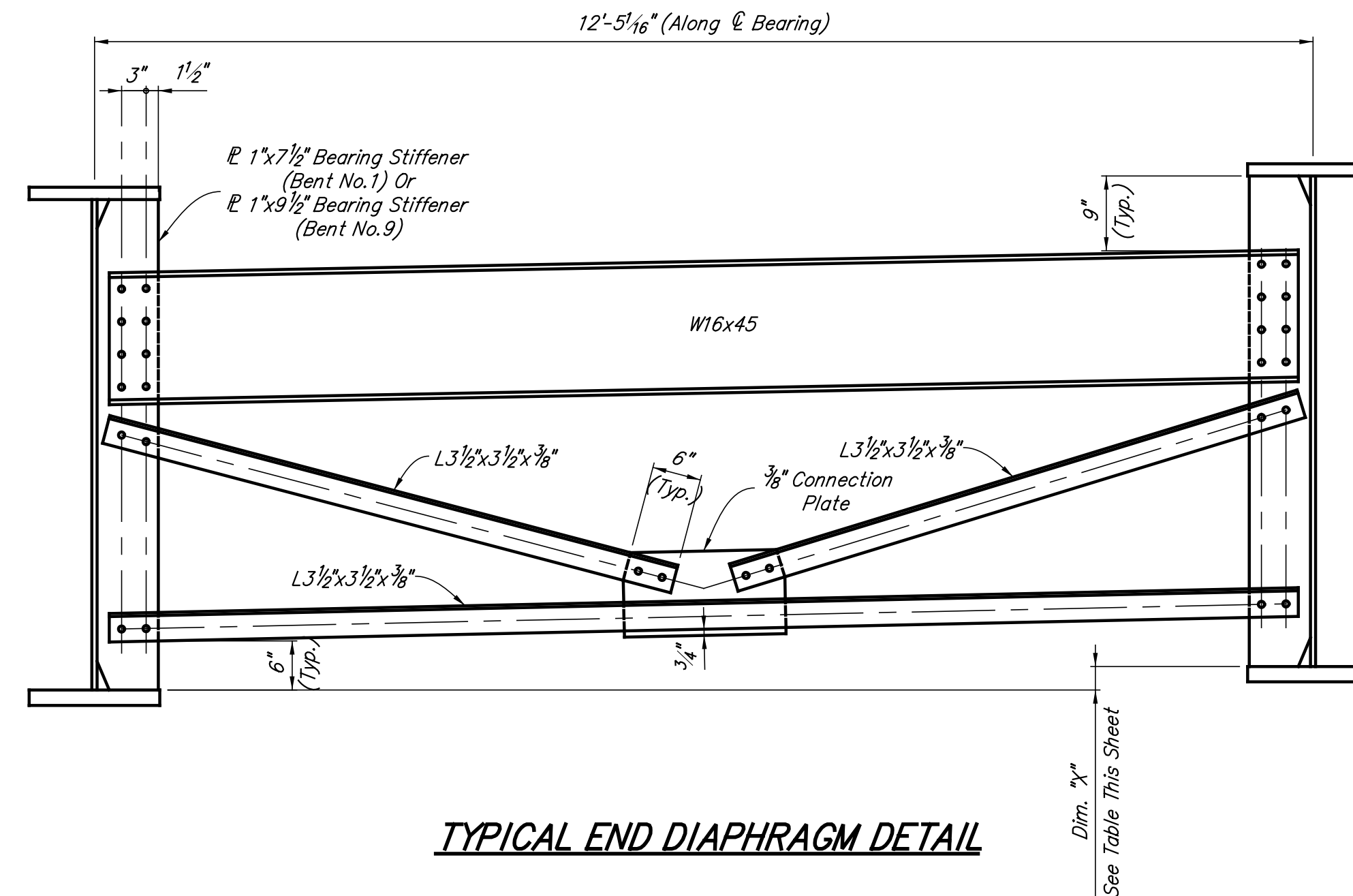
Drip Bars shall be located on the upward slope of all exterior girders adjacent to end bents or piers.

Drip Bars shall be caulked with dark brown caulking against flange, web and fillet welds.

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



TYPICAL INTERMEDIATE "K" FRAME DETAIL



TYPICAL END DIAPHRAGM DETAIL

Dim. "X"		
Location	Bent No.1	Bent No.9
G1-G2	1 1/16"	4 1/16"
G2-G3	1 1/16"	4 1/16"
G3-G4	1 1/16"	1 1/16"
G4-G5	4 1/16"	1 1/16"
G5-G6	4 1/16"	1 1/16"

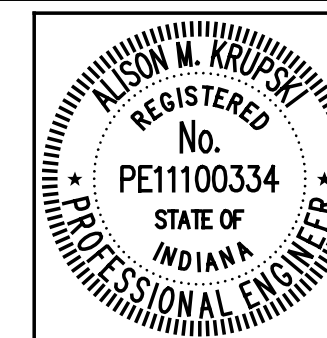
NOTES:

All bolts for connections to be 7/8" diameter A325, Type 1 bolts.

All open holes in connecting members to be 1 5/16" diameter, unless noted.

All open holes in connection plates and bearing stiffeners to be 1 1/8" diameter, unless noted.

All plate material to be A709 Grade 50, Painted, Color 15450 (Light Blue).



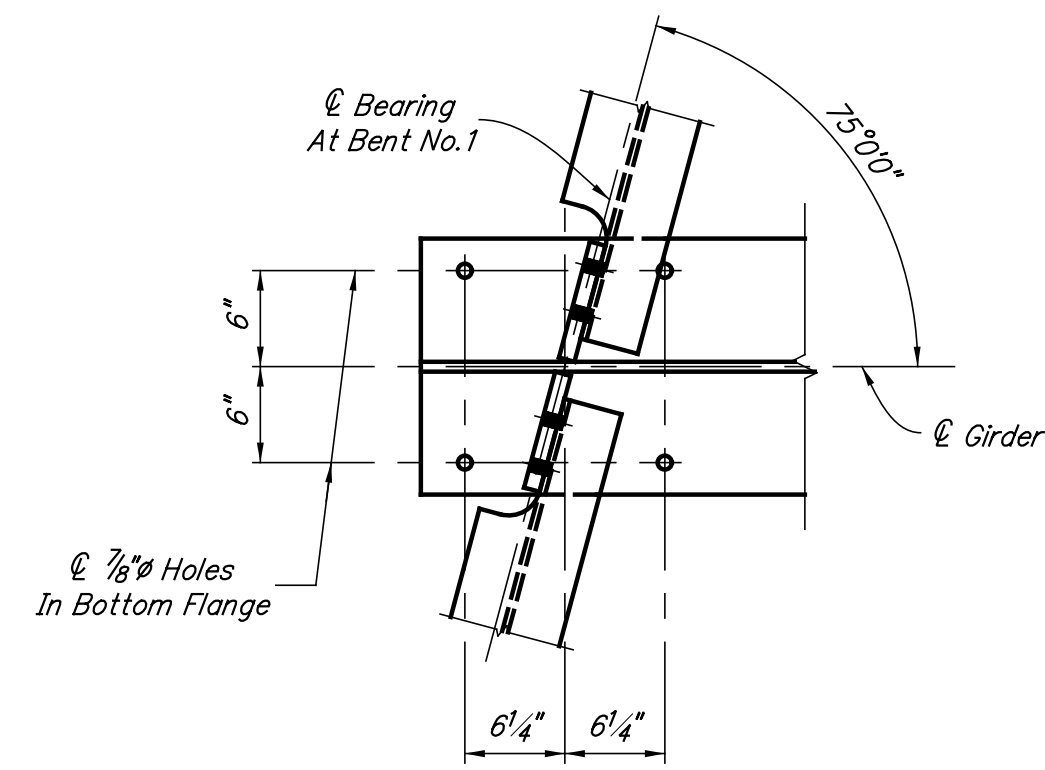
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
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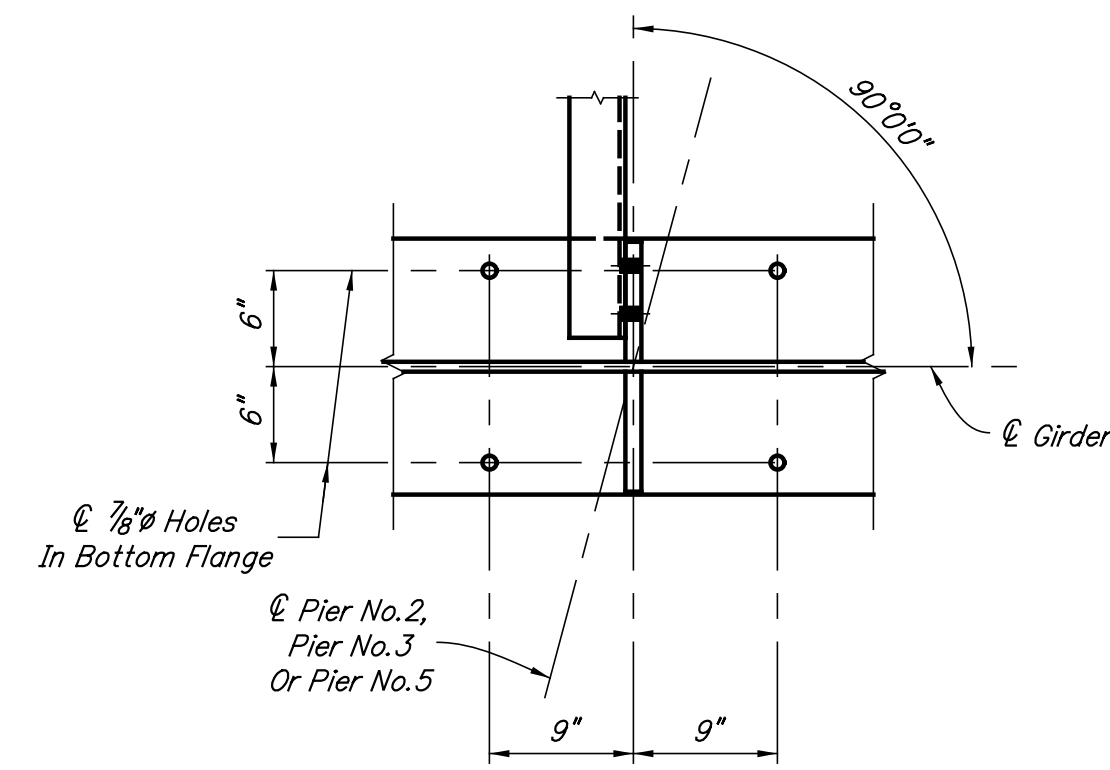
INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

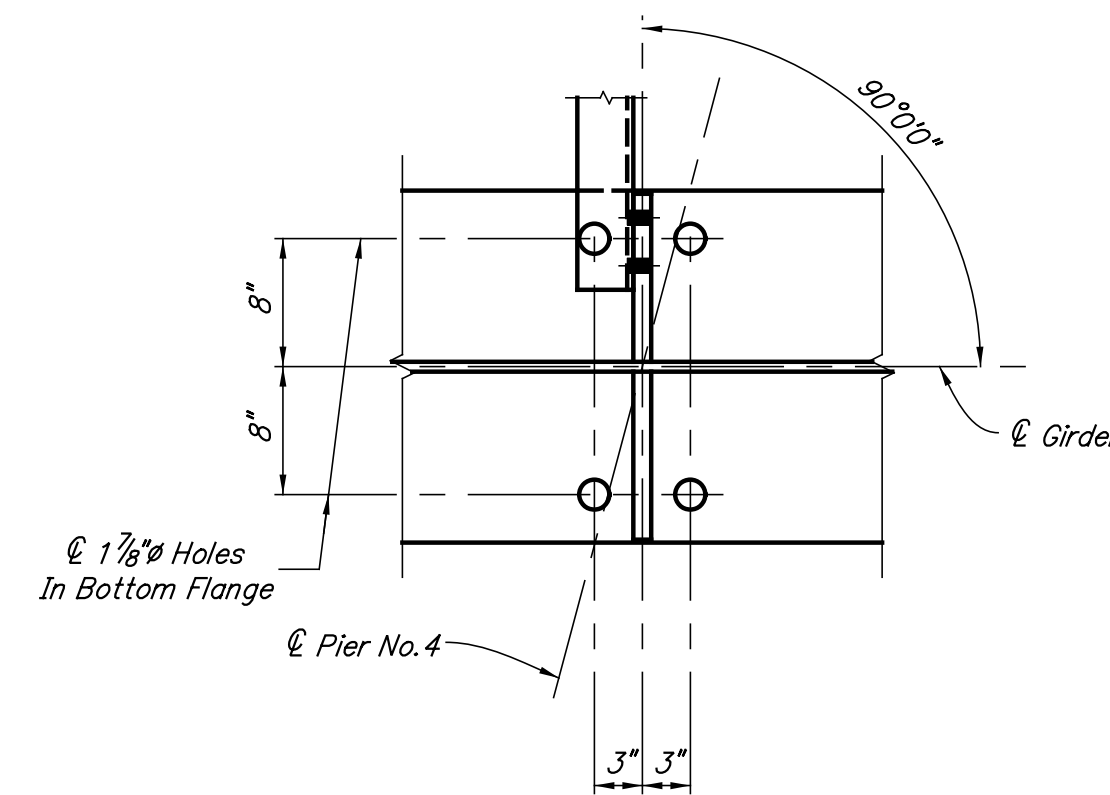
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3/4" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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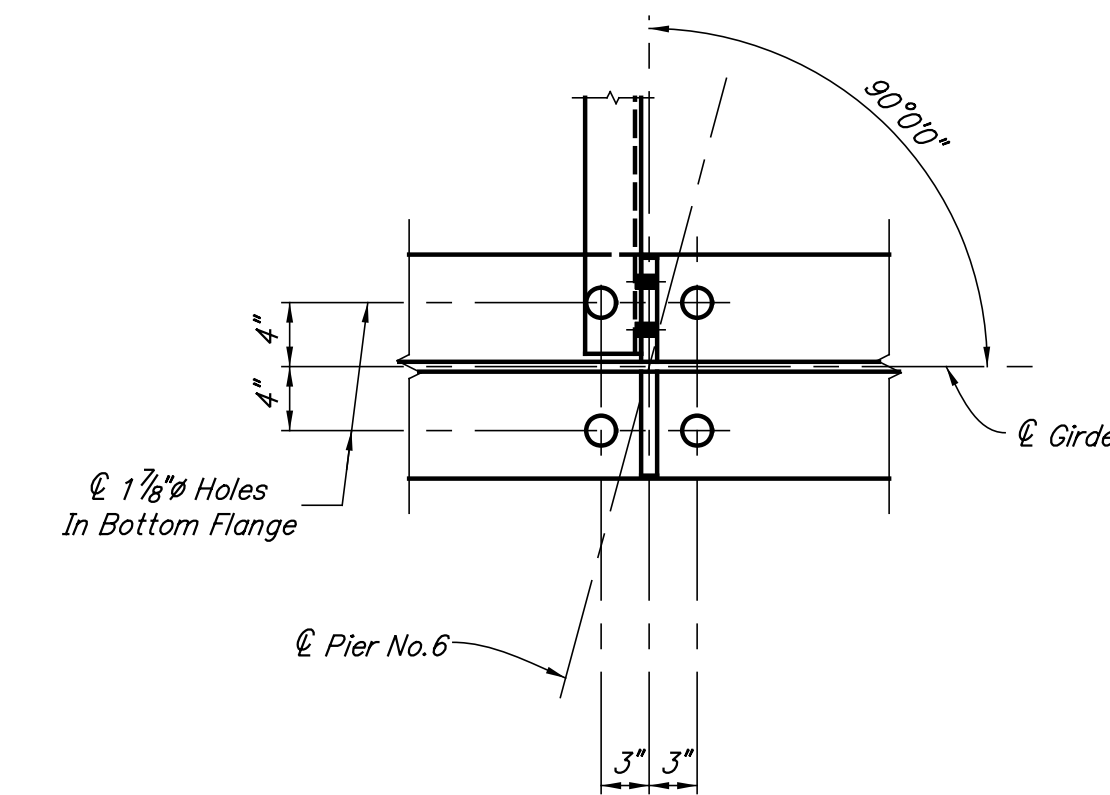
DETAIL "A"



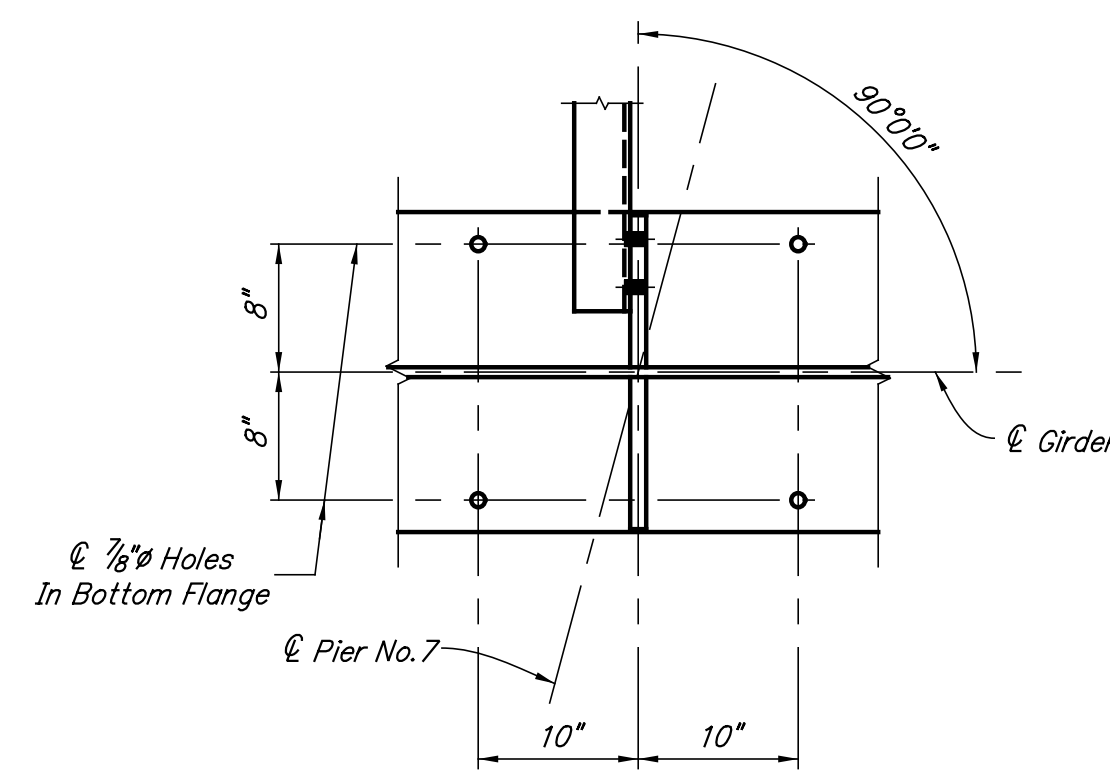
DETAIL "B"



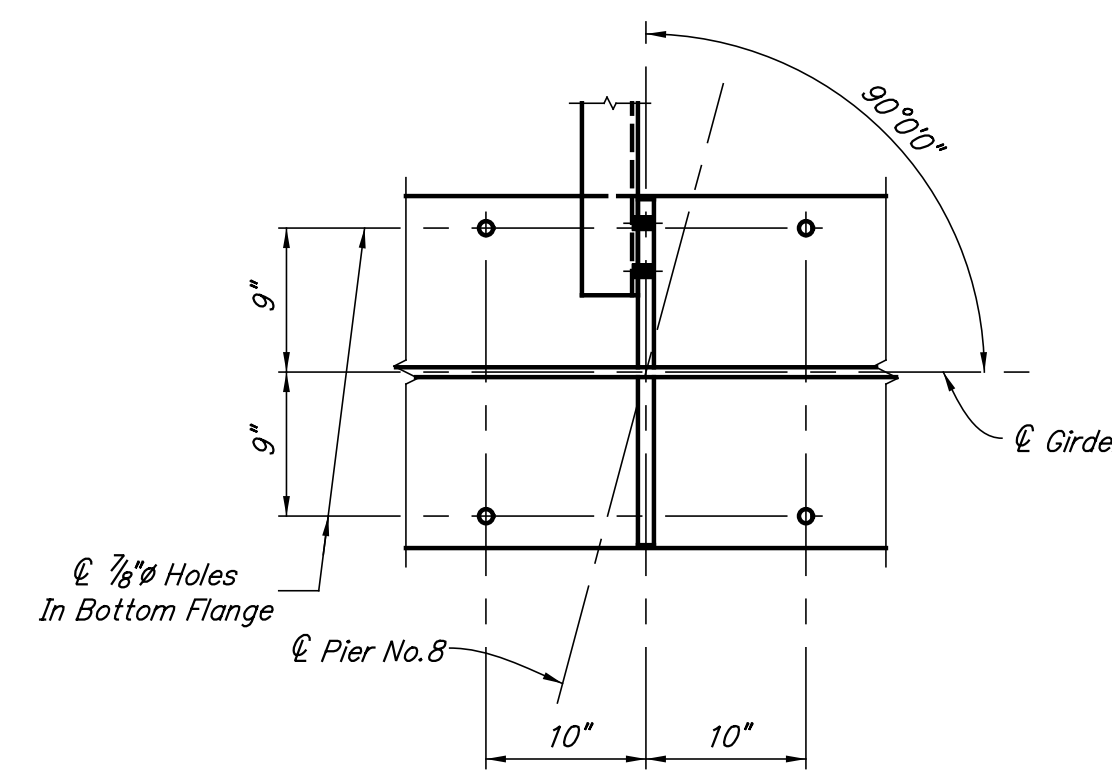
DETAIL "C"



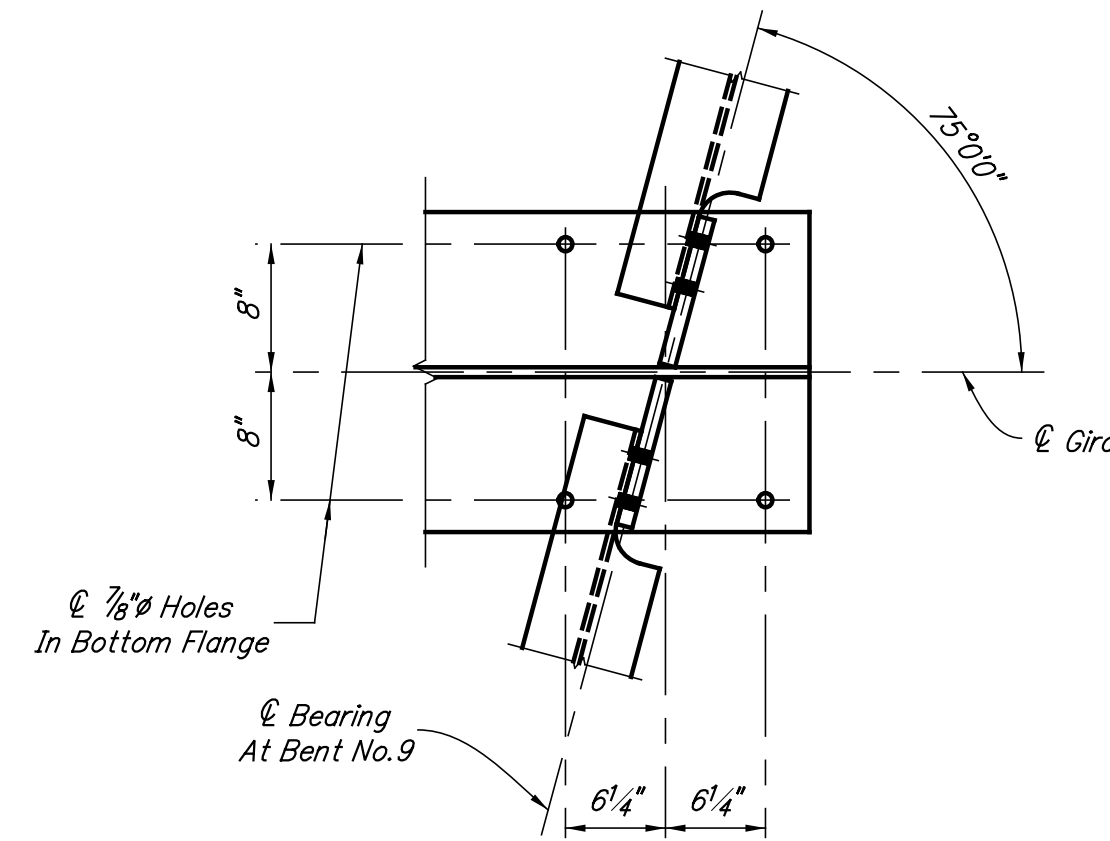
DETAIL "D"



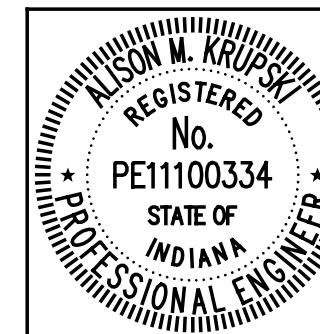
DETAIL "E"



DETAIL "F"



DETAIL "G"



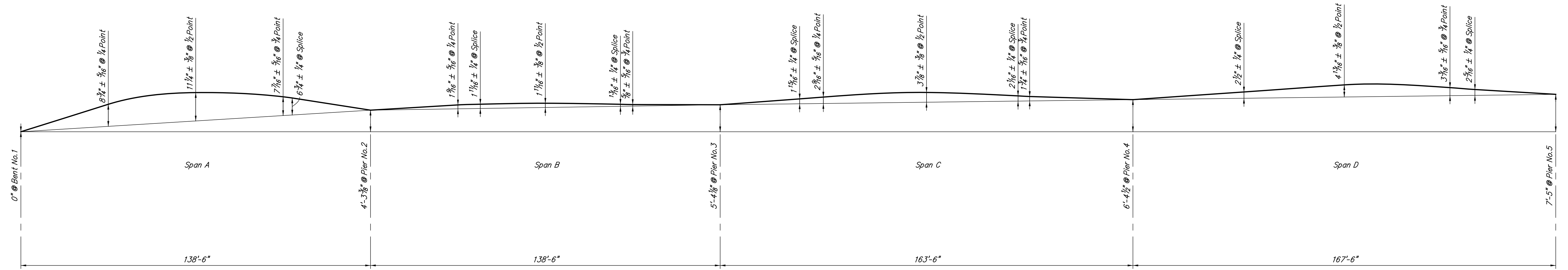
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

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 CHECKED: RMC CHECKED: AMK

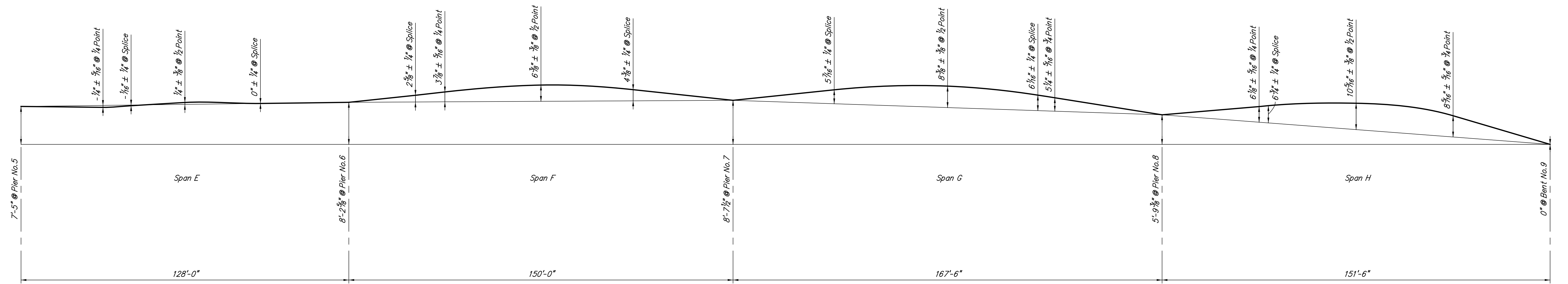
INDIANA
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

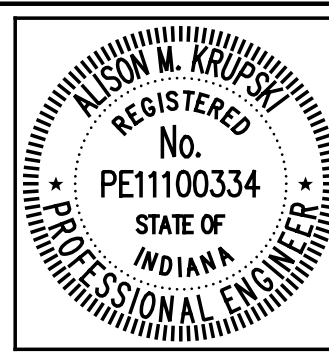
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VERTICAL SCALE	DESIGNATION NO. 0014210
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NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.1



NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.1

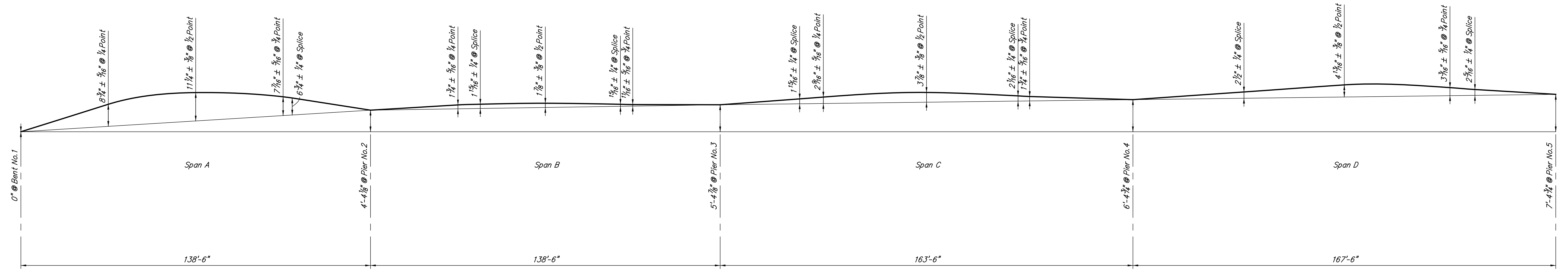


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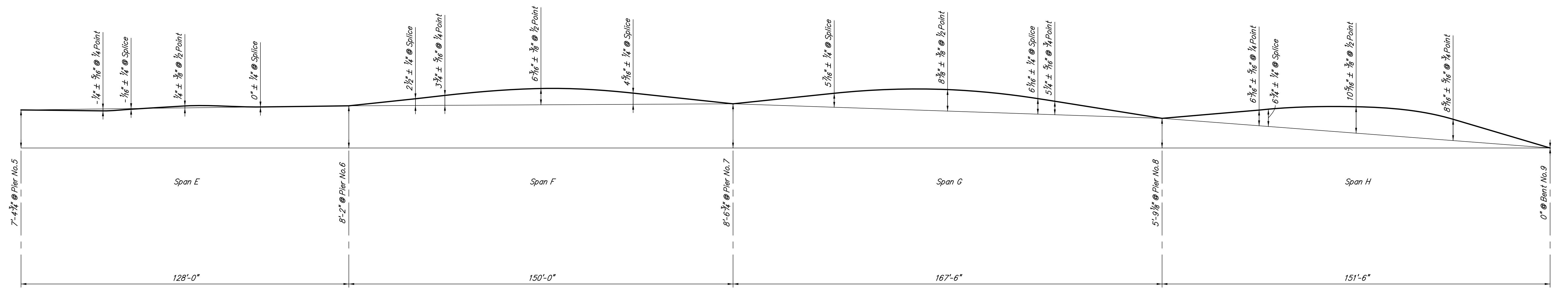
INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

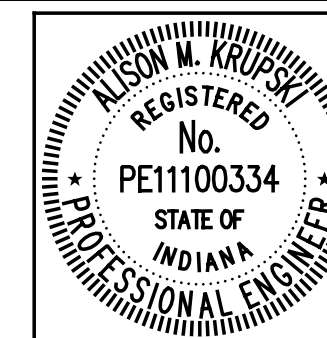
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NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
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SURVEY BOOK	SHEETS
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NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.2



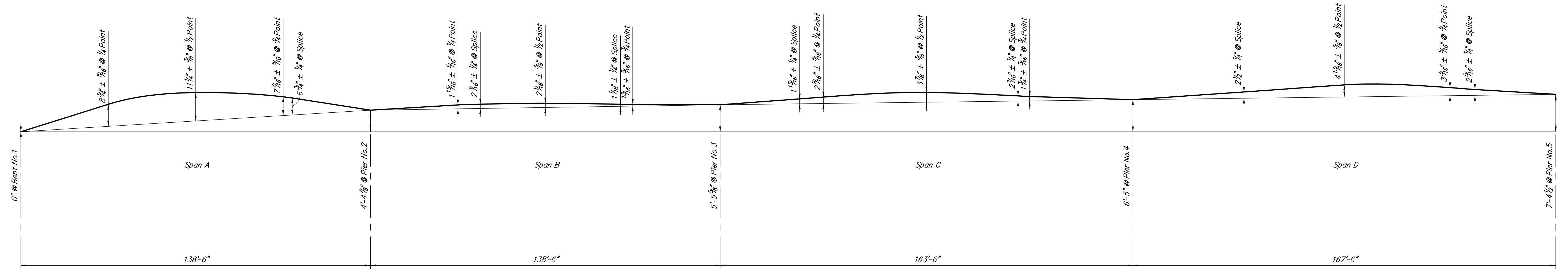
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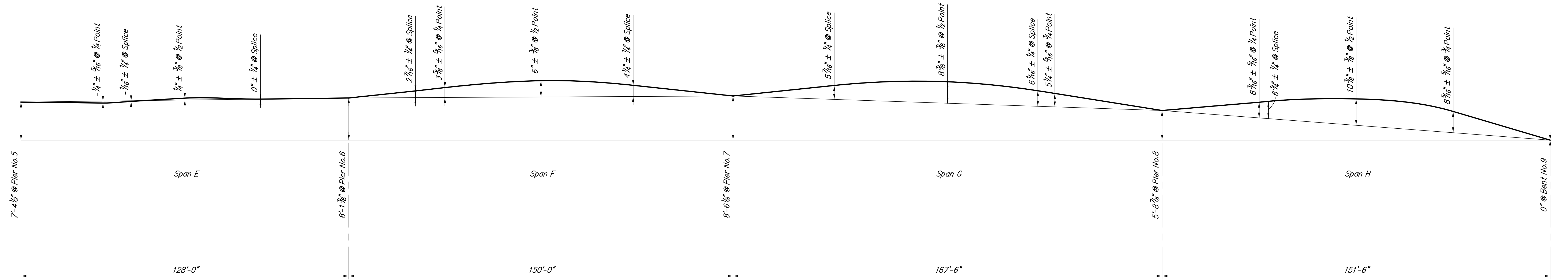
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
STRUCTURAL STEEL DETAILS	

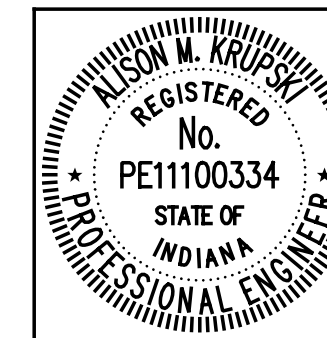
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VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.3



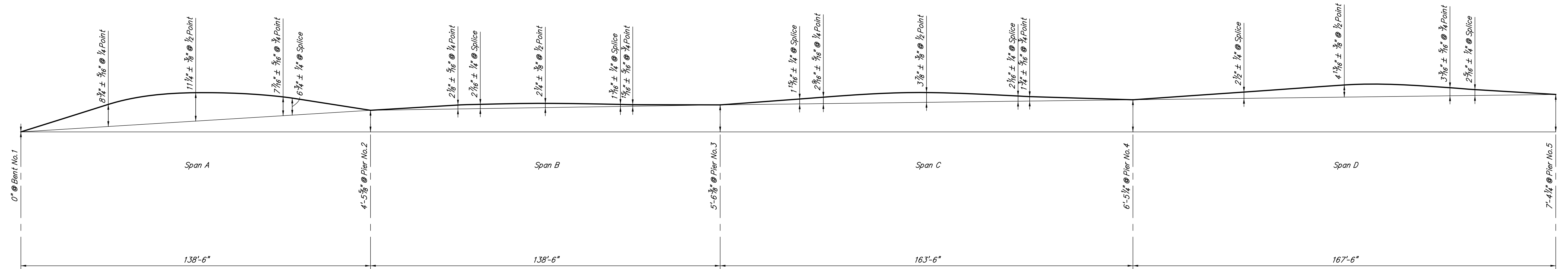
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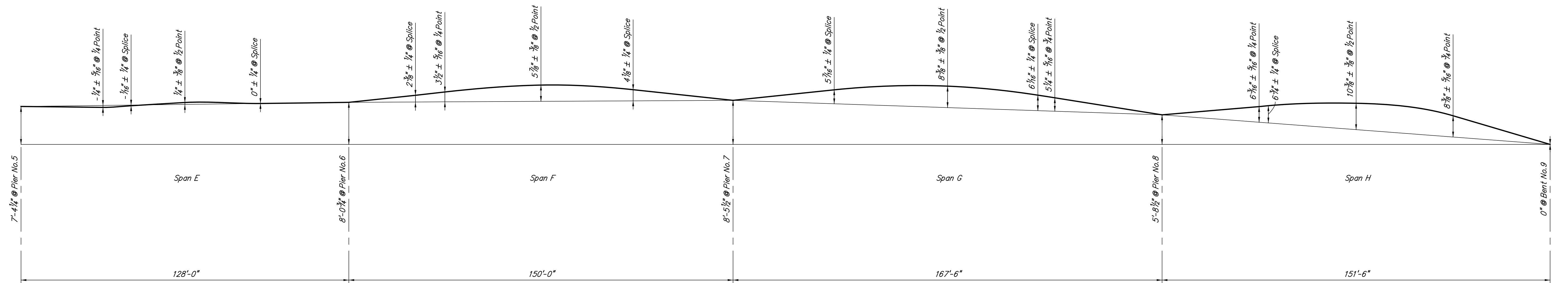
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
STRUCTURAL STEEL DETAILS	

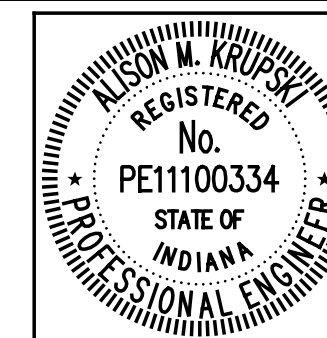
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VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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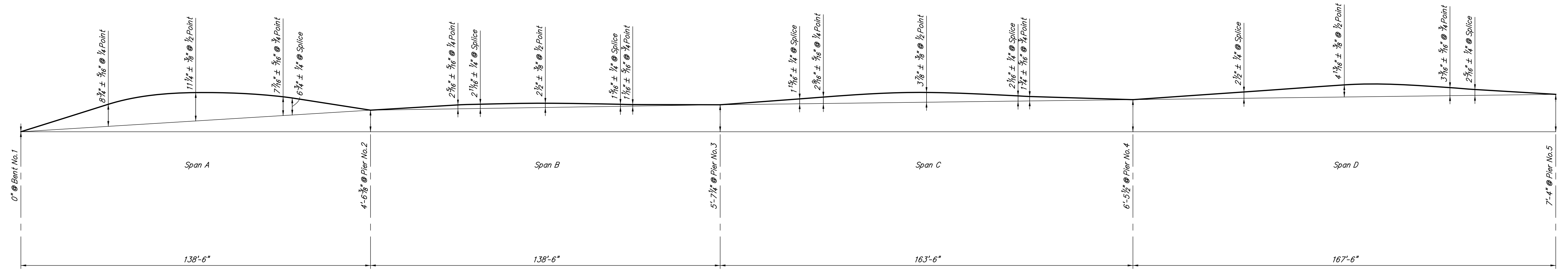
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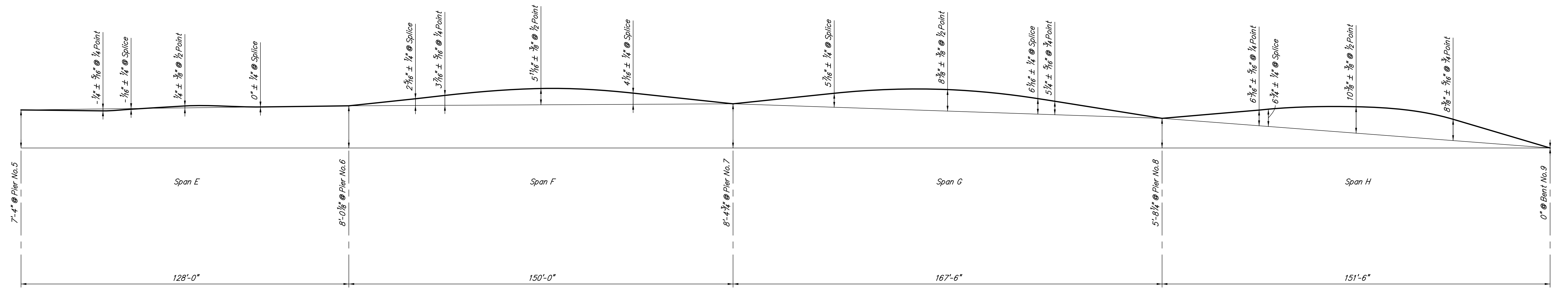
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
STRUCTURAL STEEL DETAILS	

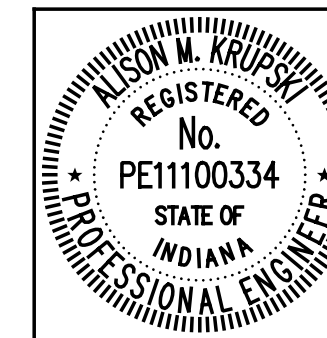
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VERTICAL SCALE	DESIGNATION NO.
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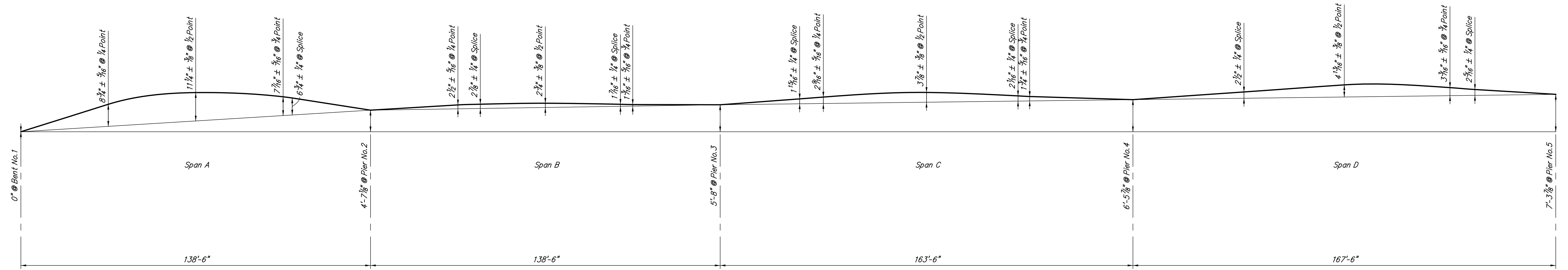
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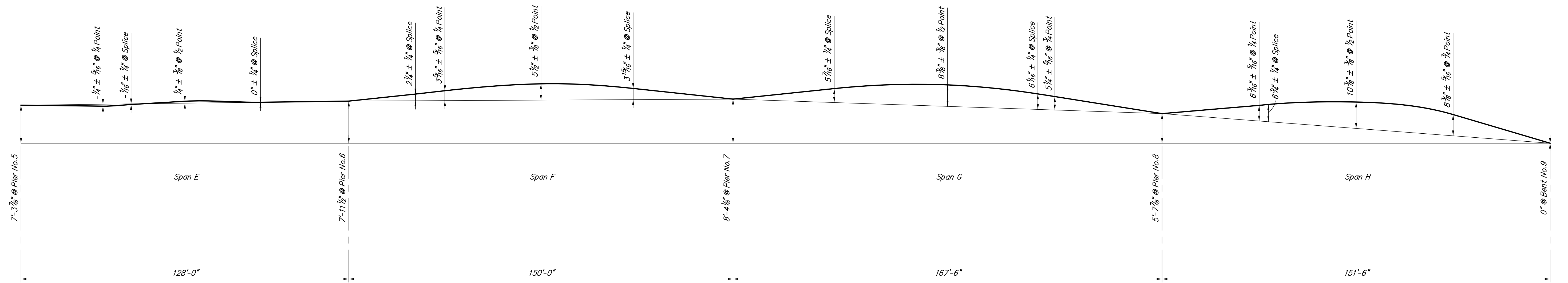
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
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INDIANA DEPARTMENT OF TRANSPORTATION	
STRUCTURAL STEEL DETAILS	

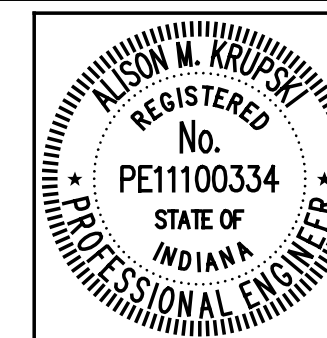
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VERTICAL SCALE	DESIGNATION NO.
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CONTRACT	PROJECT NO.
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NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.6



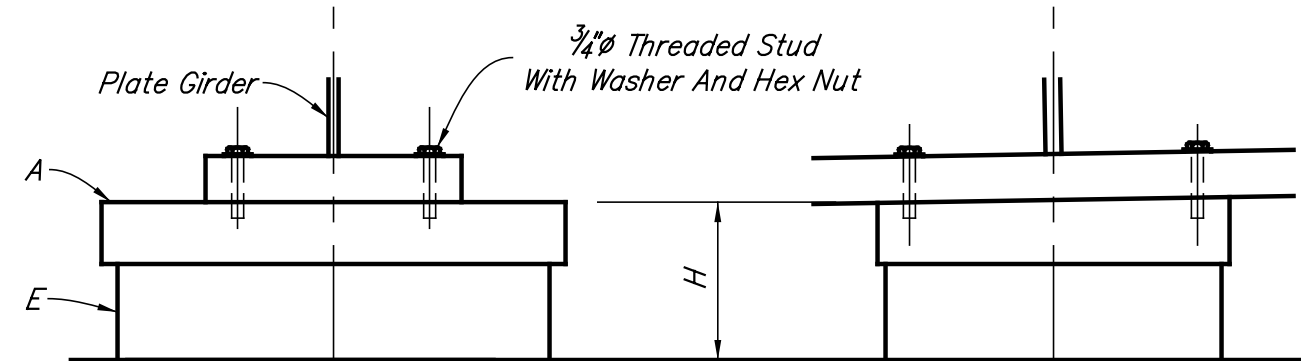
NO LOAD CAMBER AND BLOCKING DIAGRAM - GIRDER NO.6



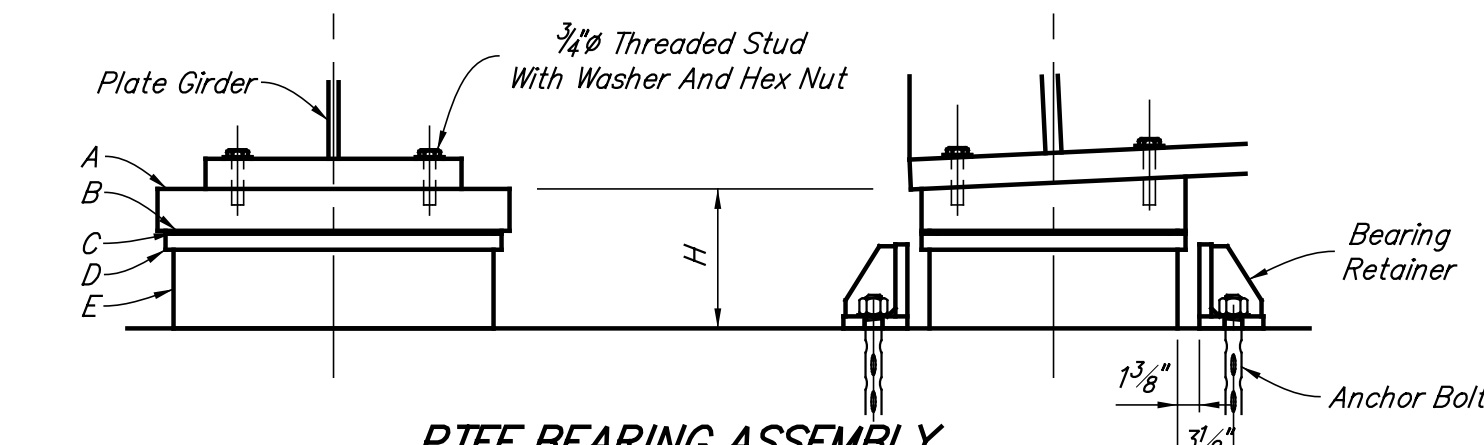
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
STRUCTURAL STEEL DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	89 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

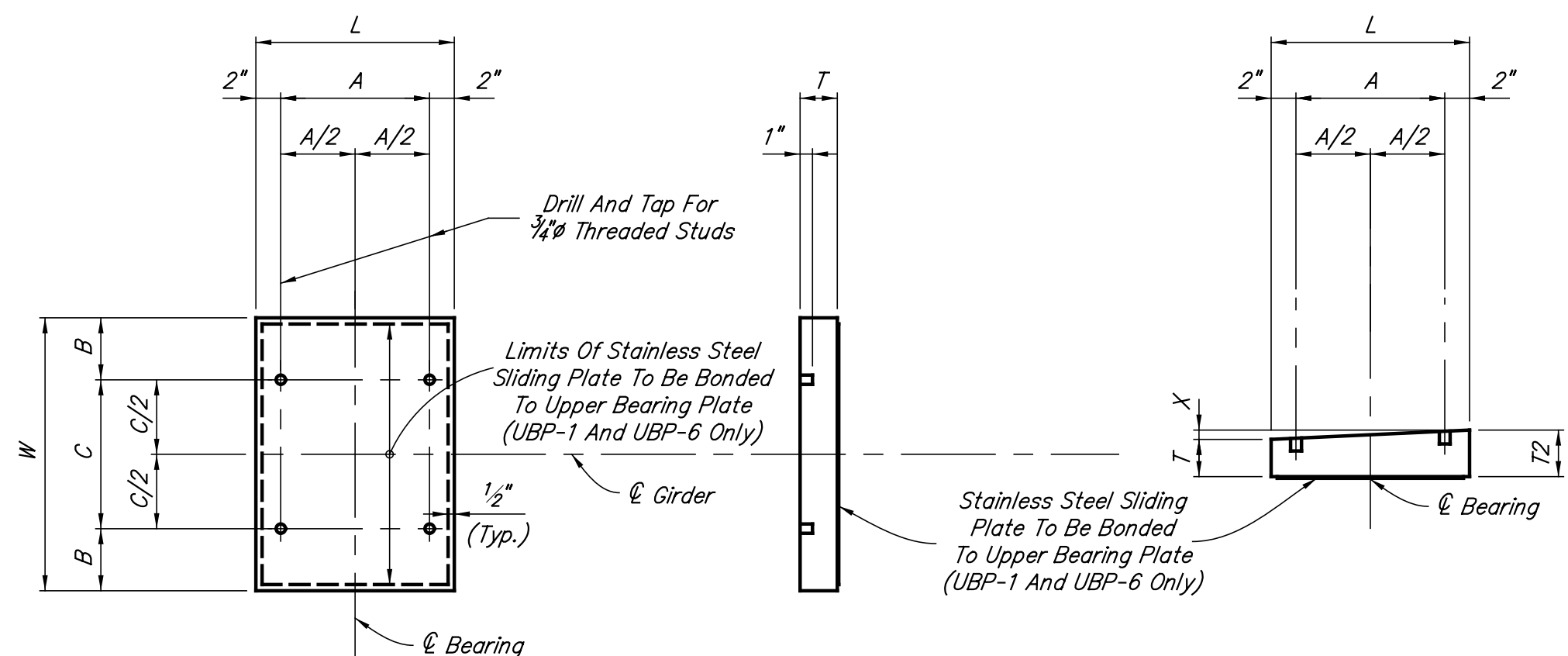


ELASTOMERIC BEARING ASSEMBLY



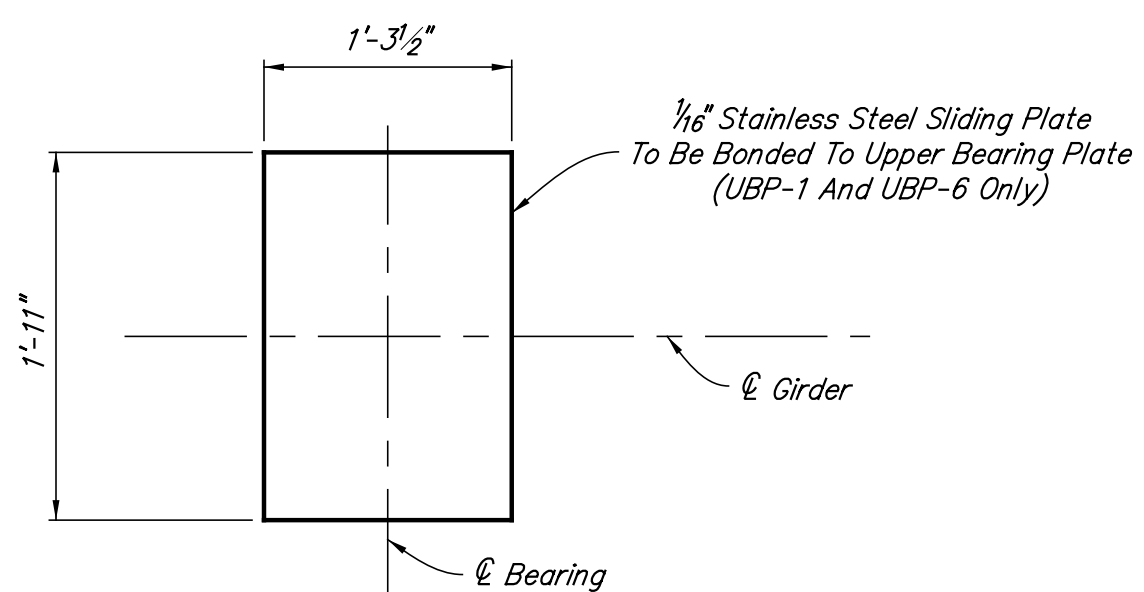
**PTFE BEARING ASSEMBLY
ELASTOMERIC BEARING ASSEMBLY**

Assembly	Quantity	Bearing Type	A	B	C	D	E	H (@ \varnothing)
EBA-1	6 Each	PTFE	UBP-1	SS-1	TFE-1	LBP-1	EBP-1	9 5/32"
EBA-2	6 Each	Elastomeric	UBP-2	-	-	-	EBP-2	10 1/16"
EBA-3	12 Each	Elastomeric	UBP-3	-	-	-	EBP-2	9 5/16"
EBA-4	6 Each	Elastomeric	UBP-4	-	-	-	EBP-3	11 1/16"
EBA-5	6 Each	Elastomeric	UBP-5	-	-	-	EBP-3	11 13/16"
EBA-6	6 Each	PTFE	UBP-6	SS-1	TFE-1	LBP-1	EBP-1	9 5/32"

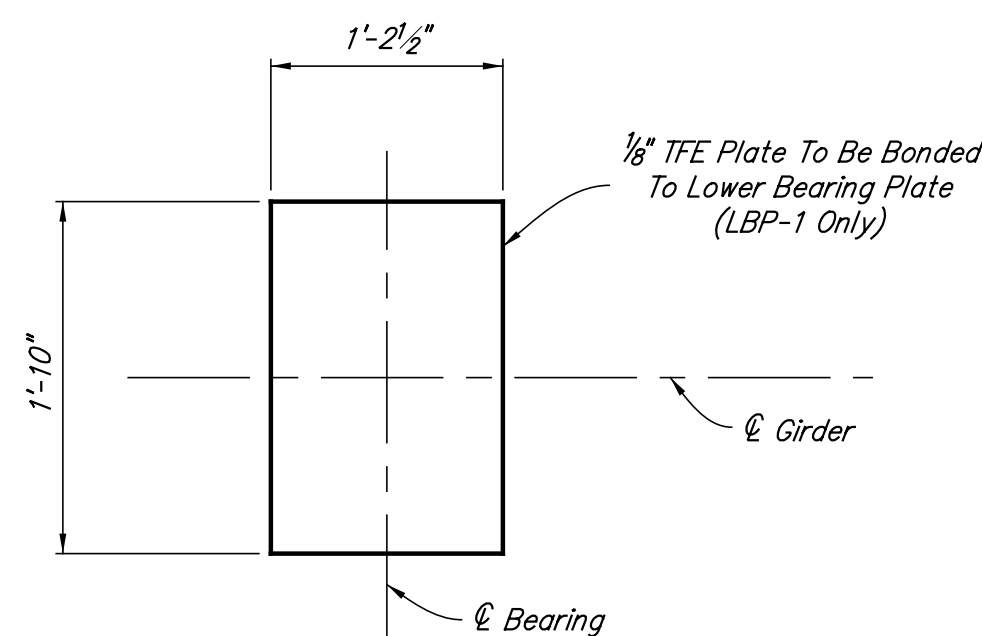


BEVELED UPPER BEARING PLATE

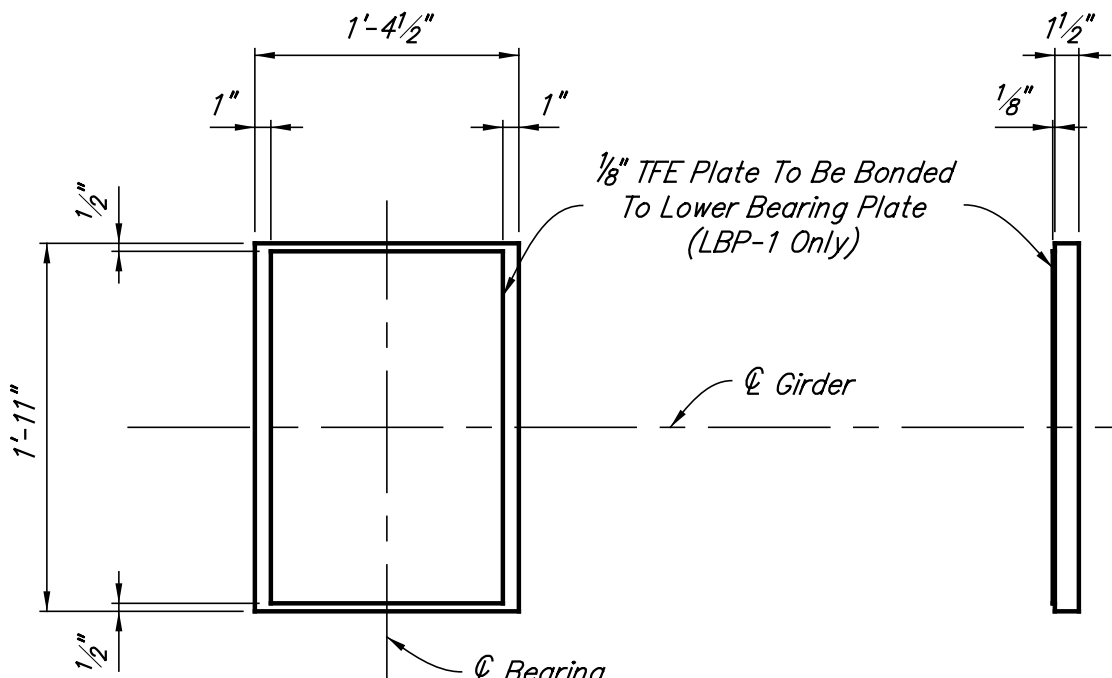
Mark	L	W	A	A/2	B	C	C/2	T	T/2	X
UBP-1	1'-4 1/2"	2'-0"	1'-0 1/2"	6 1/4"	5"	1'-0"	6"	2 7/8"	3 3/8"	3/4"
UBP-2	1'-10"	2'-5"	1'-6"	9"	8 1/2"	1'-0"	6"	3 7/8"	4 1/4"	7/8"
UBP-3	1'-10"	2'-5"	1'-6"	9"	8 1/2"	1'-0"	6"	3 7/8"	4"	1/8"
UBP-4	2'-0"	2'-6"	1'-8"	10"	7"	1'-4"	8"	4 1/8"	4 1/4"	1/8"
UBP-5	2'-0"	2'-6"	1'-8"	10"	6"	1'-6"	9"	4 1/8"	4 3/4"	5/8"
UBP-6	1'-4 1/2"	2'-0"	1'-0 1/2"	6 1/4"	4"	1'-4"	8"	2 7/8"	3 3/8"	3/4"



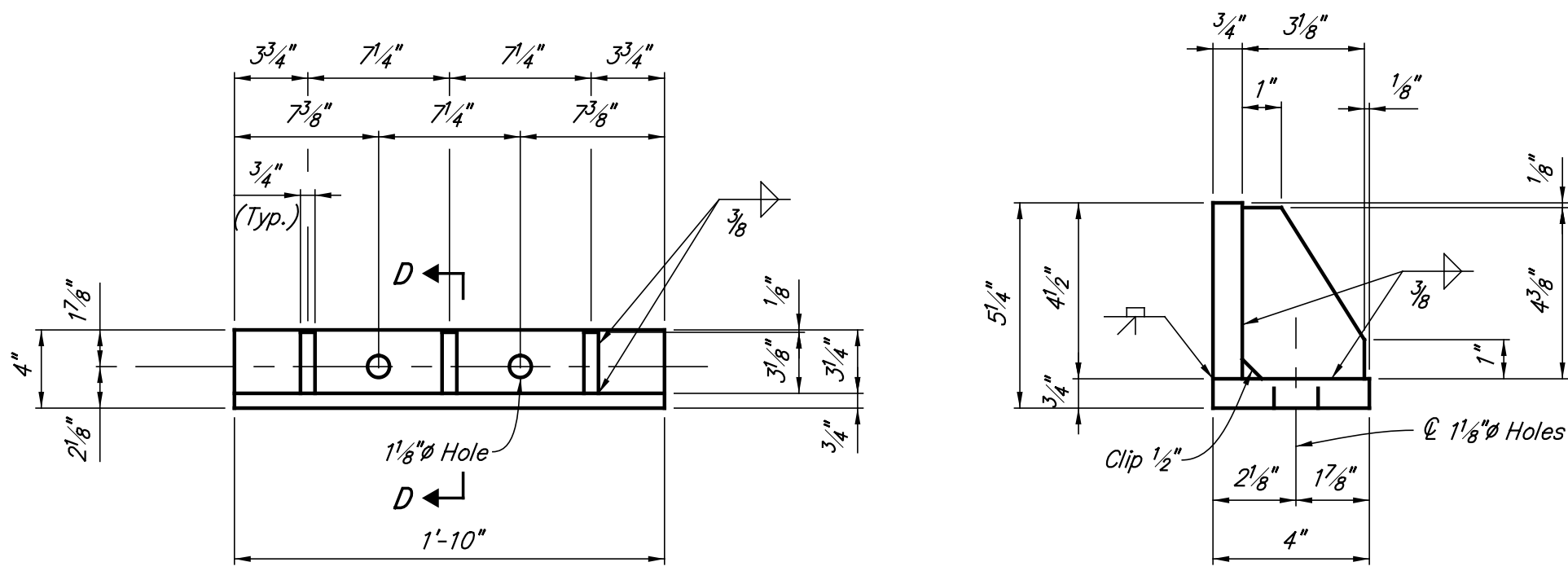
STAINLESS STEEL SLIDING PLATE - SS-1



TFE PLATE - TFE-1

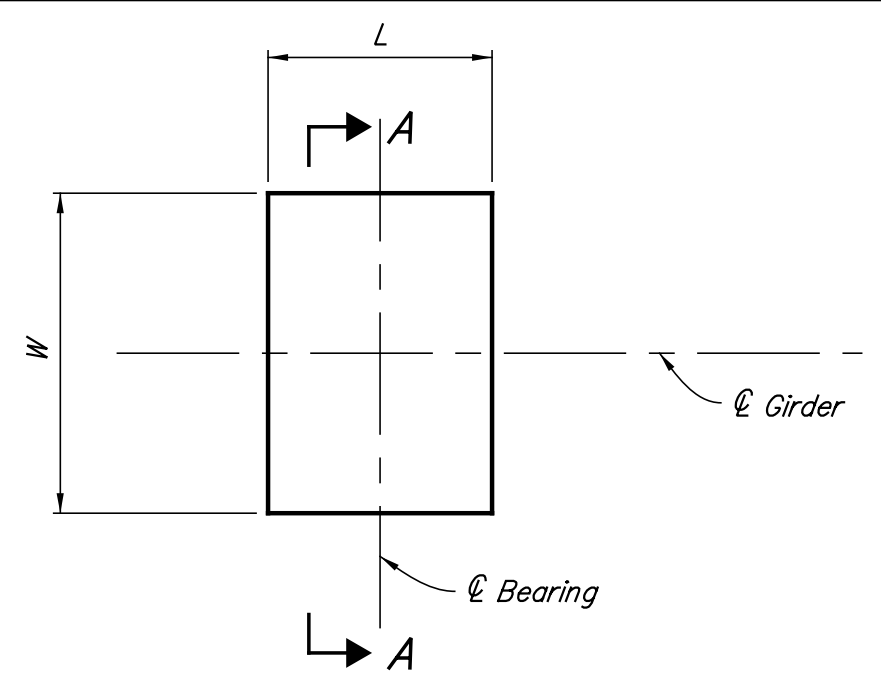


LOWER BEARING PLATE - LBP-1



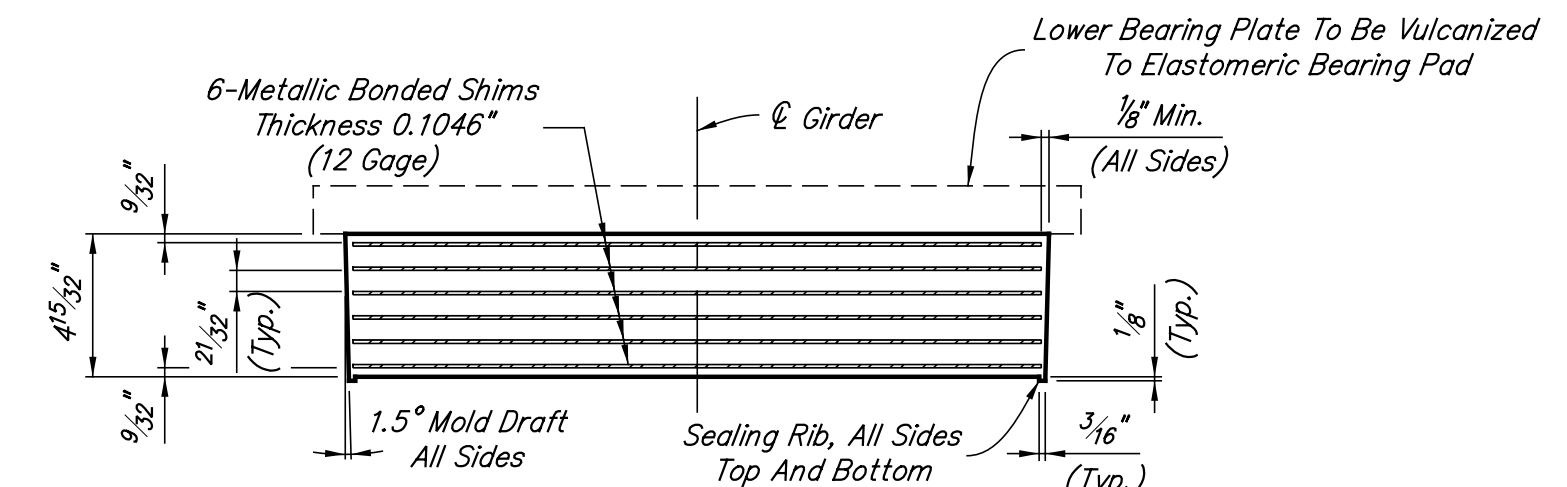
BEARING RETAINER
Scale: 1 1/2" = 1'-0"

(All Steel To Be A709, Grade 50, Painted)

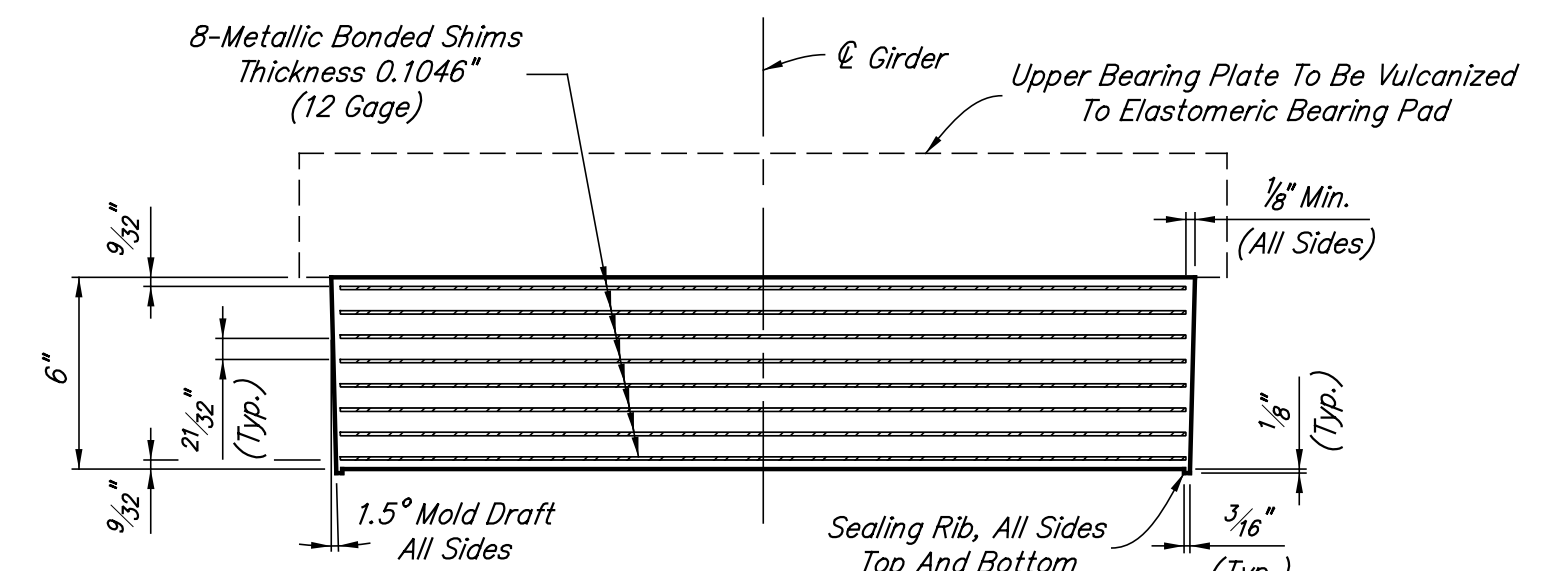


ELASTOMERIC BEARING PAD

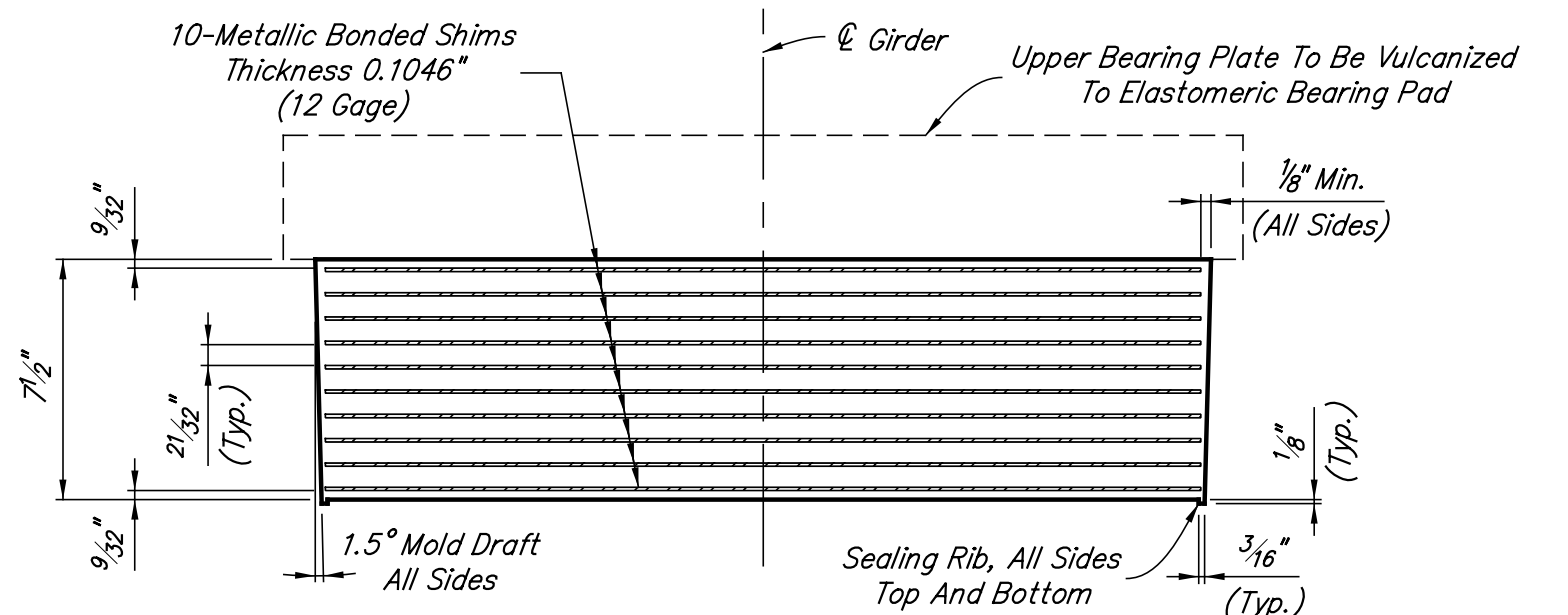
Mark	L	W
EBP-1	1'-3 1/2"	1'-10"
EBP-2	1'-9"	2'-3"
EBP-3	1'-10 3/4"	2'-4"



SECTION A-A (EBP-1)

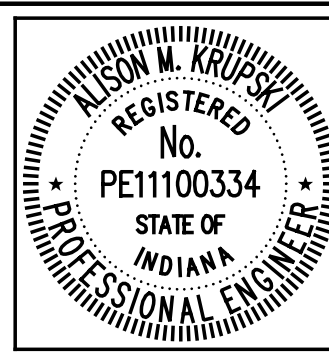


SECTION A-A (EBP-2)



SECTION A-A (EBP-3)

NOTES:
For bearing locations, see Framing Plans, Sheets No. 77-79.
Material: 55 (5±) Durometer Elastomer



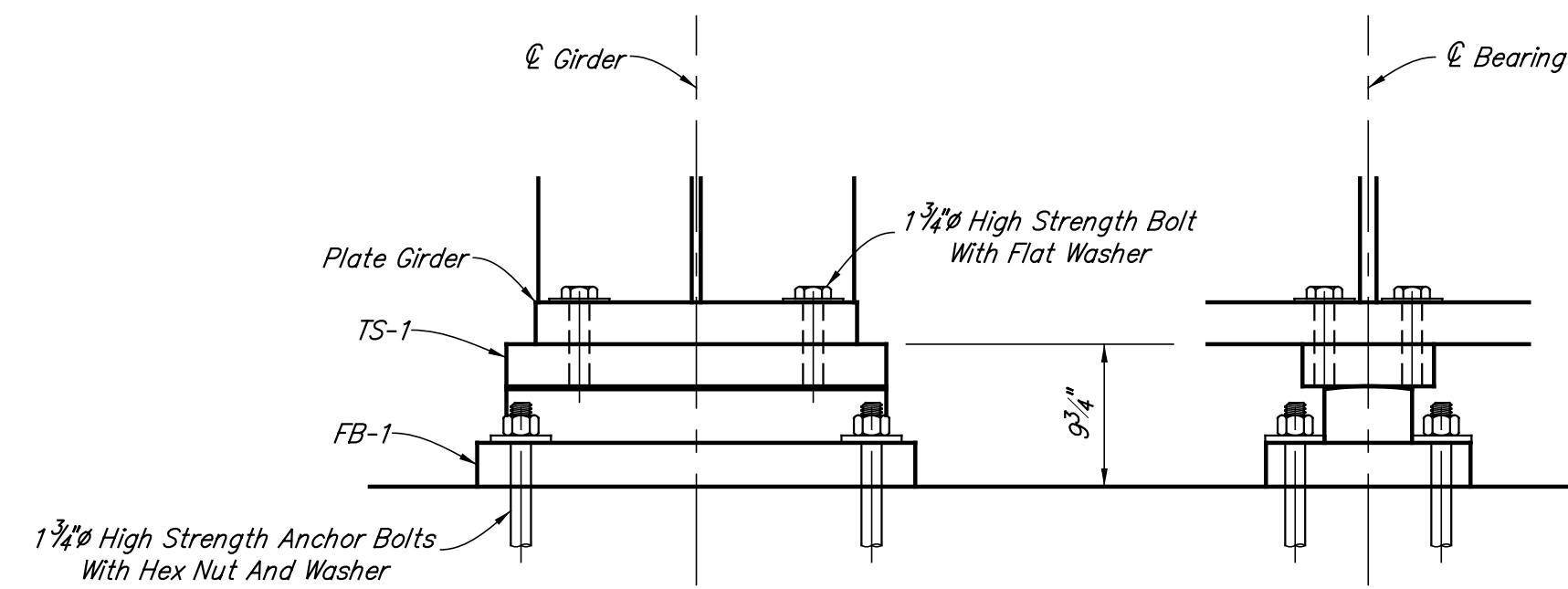
RECOMMENDED FOR APPROVAL
Alison M. Krupski 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

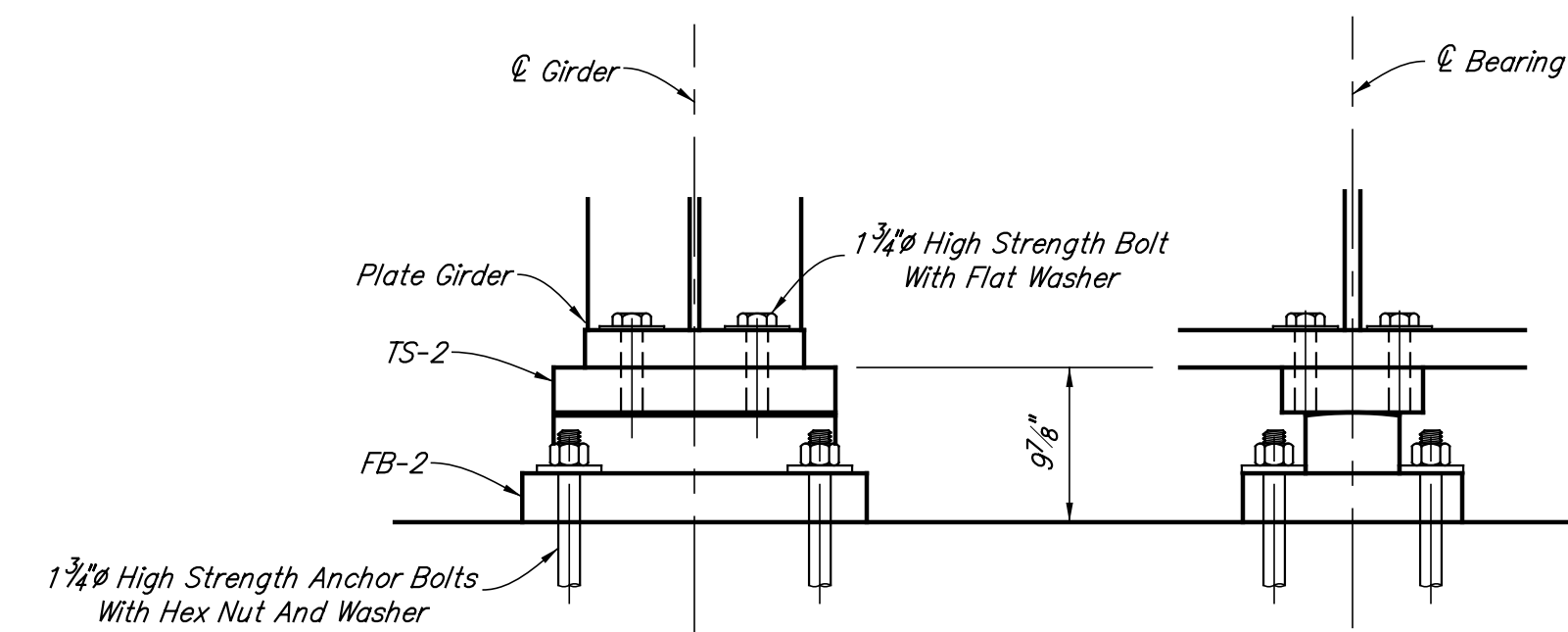
INDIANA
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING ASSEMBLY DETAILS

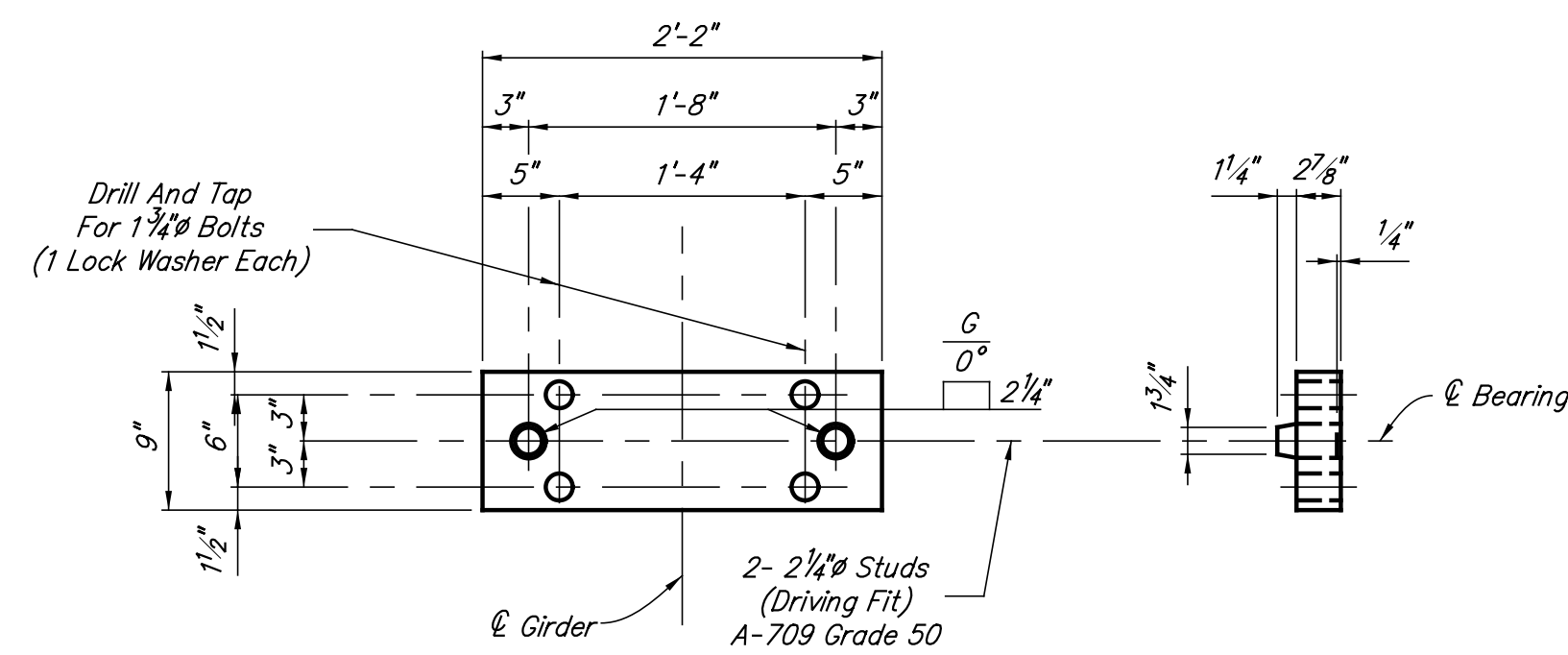
HORIZONTAL SCALE	BRIDGE FILE
NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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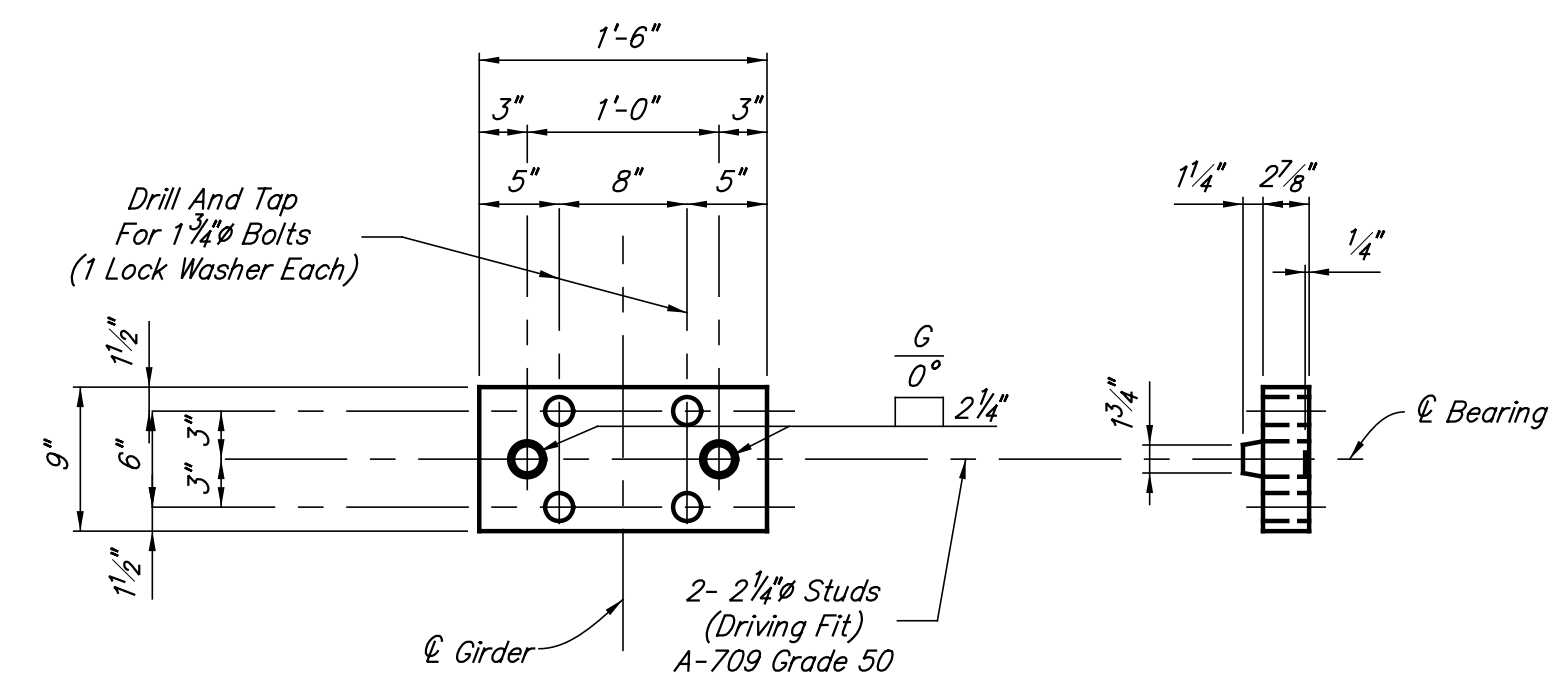
FIXED BEARING ASSEMBLY - FBA-1
6 Required At Pier No. 4



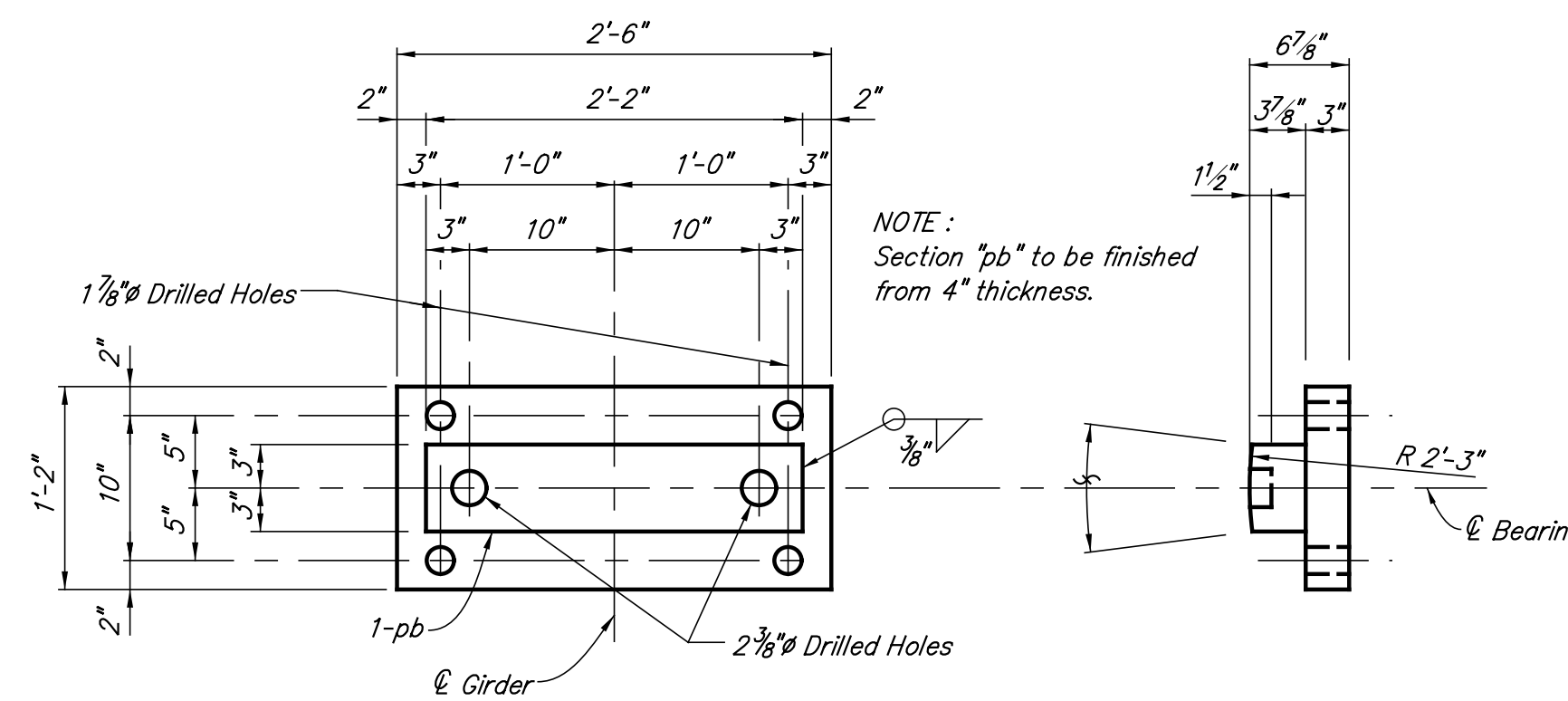
FIXED BEARING ASSEMBLY - FBA-2
6 Required At Pier No. 6



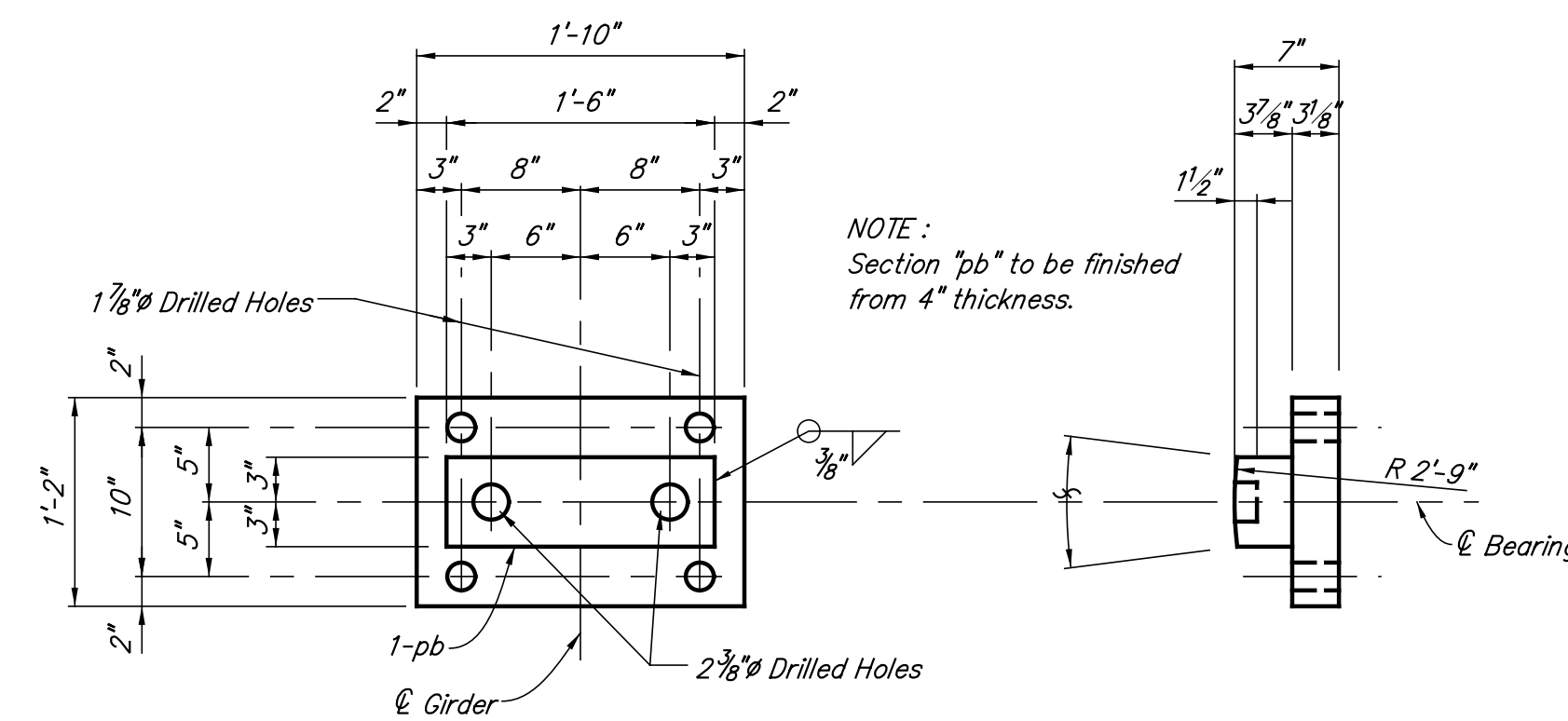
TOP SHOE TS-1



TOP SHOE TS-2

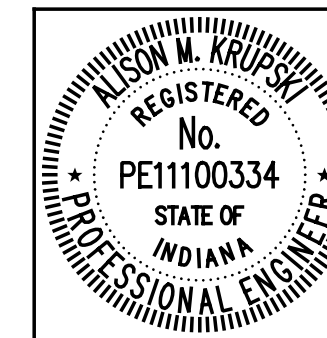


FIXED BASE FB-1



FIXED BASE FB-2

NOTES:
For bearing locations, see Framing Plans, Sheets No. 77-79.
Material: A709 Grade 50
A325 Bolts, Type 1, Grade 50



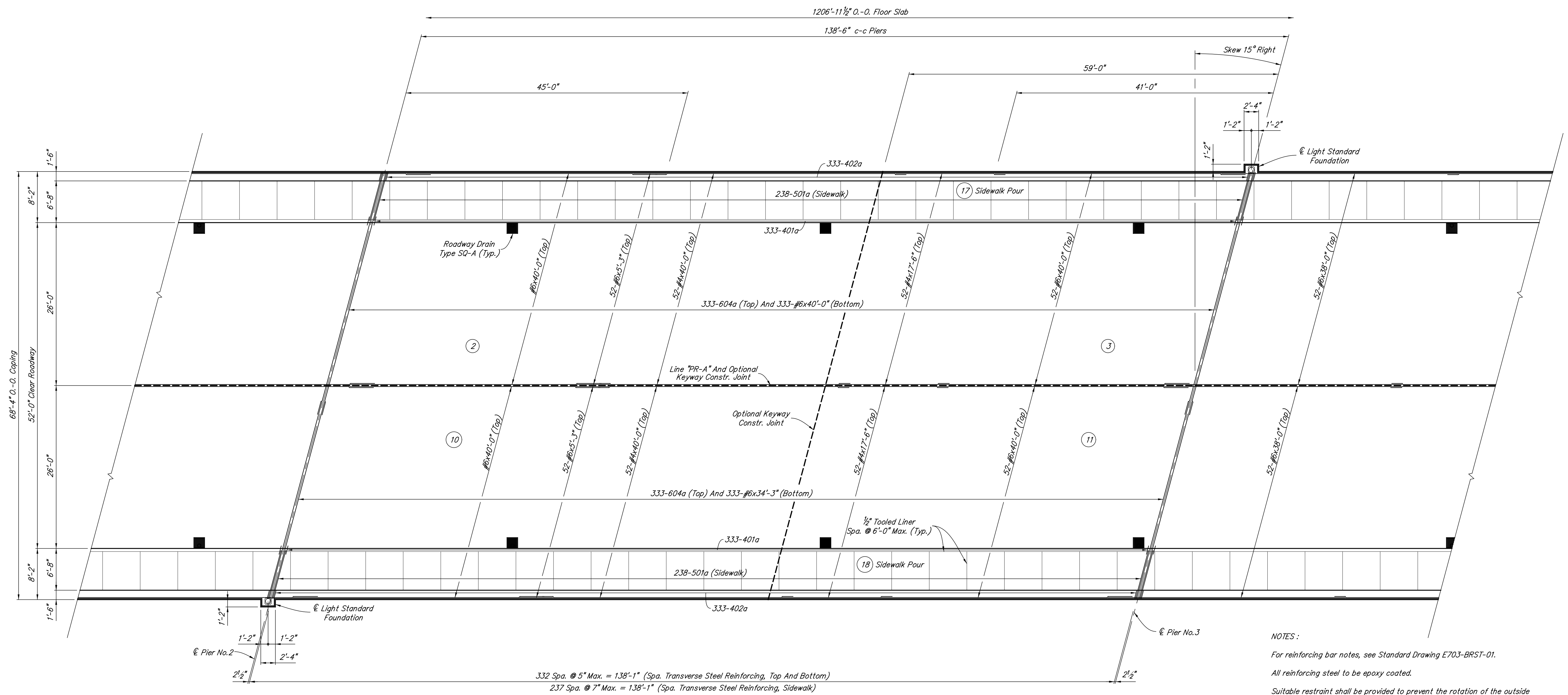
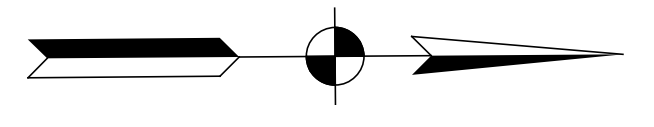
RECOMMENDED FOR APPROVAL
Alison M. Krupski 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION

FIXED BEARING ASSEMBLY DETAILS

HORIZONTAL SCALE 1" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 91 of 149
CONTRACT B-33357	PROJECT NO. N881008

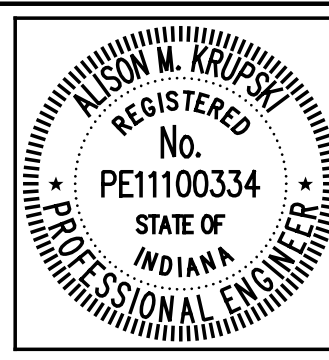


PARTIAL PLAN - SPAN "B"

332 Spa. @ 5" Max. = 138'-1" (Spa. Transverse Steel Reinforcing, Top And Bottom)
 237 Spa. @ 7" Max. = 138'-1" (Spa. Transverse Steel Reinforcing, Sidewalk)

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES :**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - (X) Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.



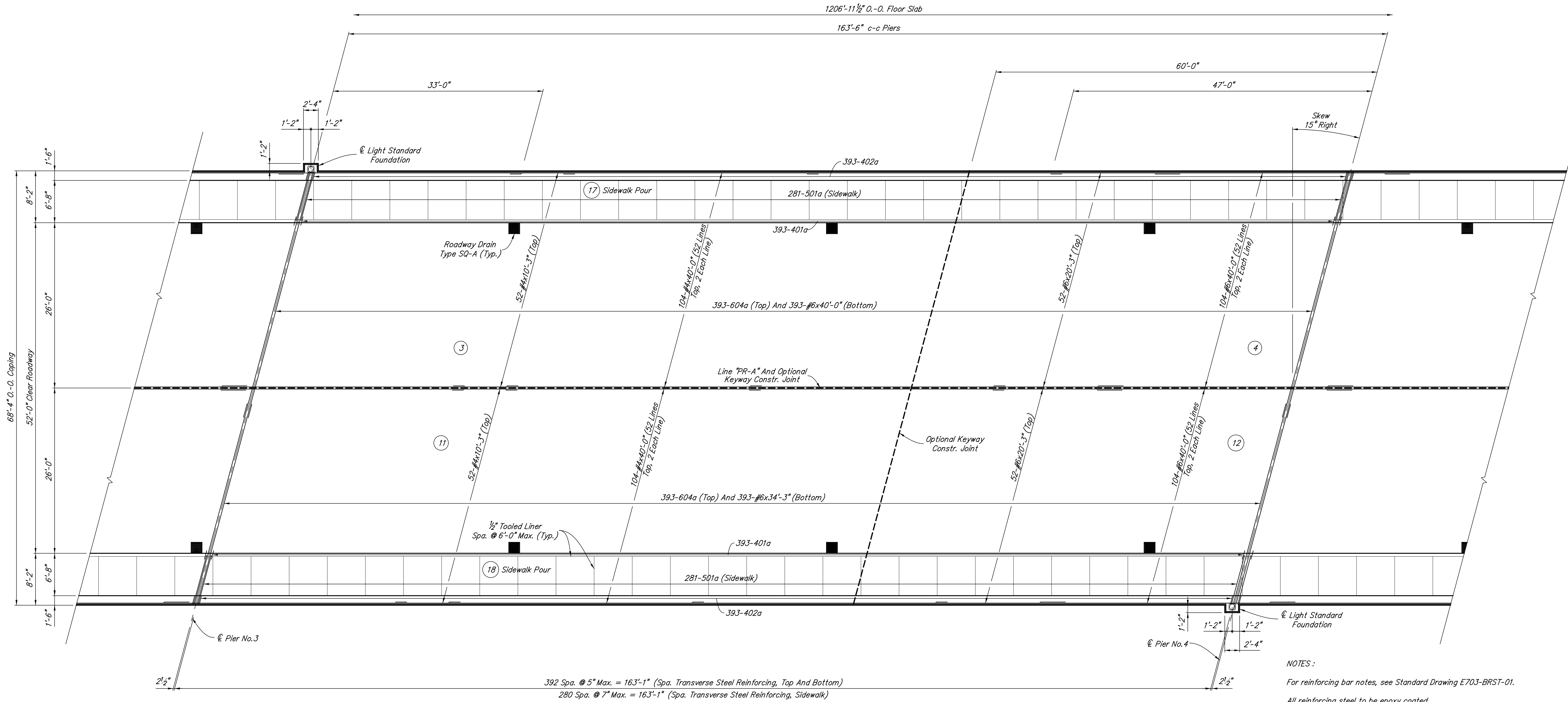
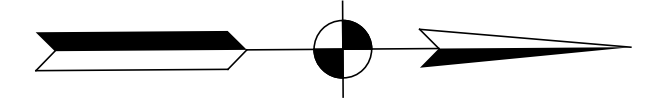
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

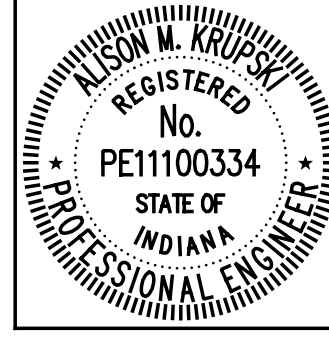
HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 93 of 149
CONTRACT B-33357	PROJECT NO. N881008



PARTIAL PLAN - SPAN "C"

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES:**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - "X" Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.



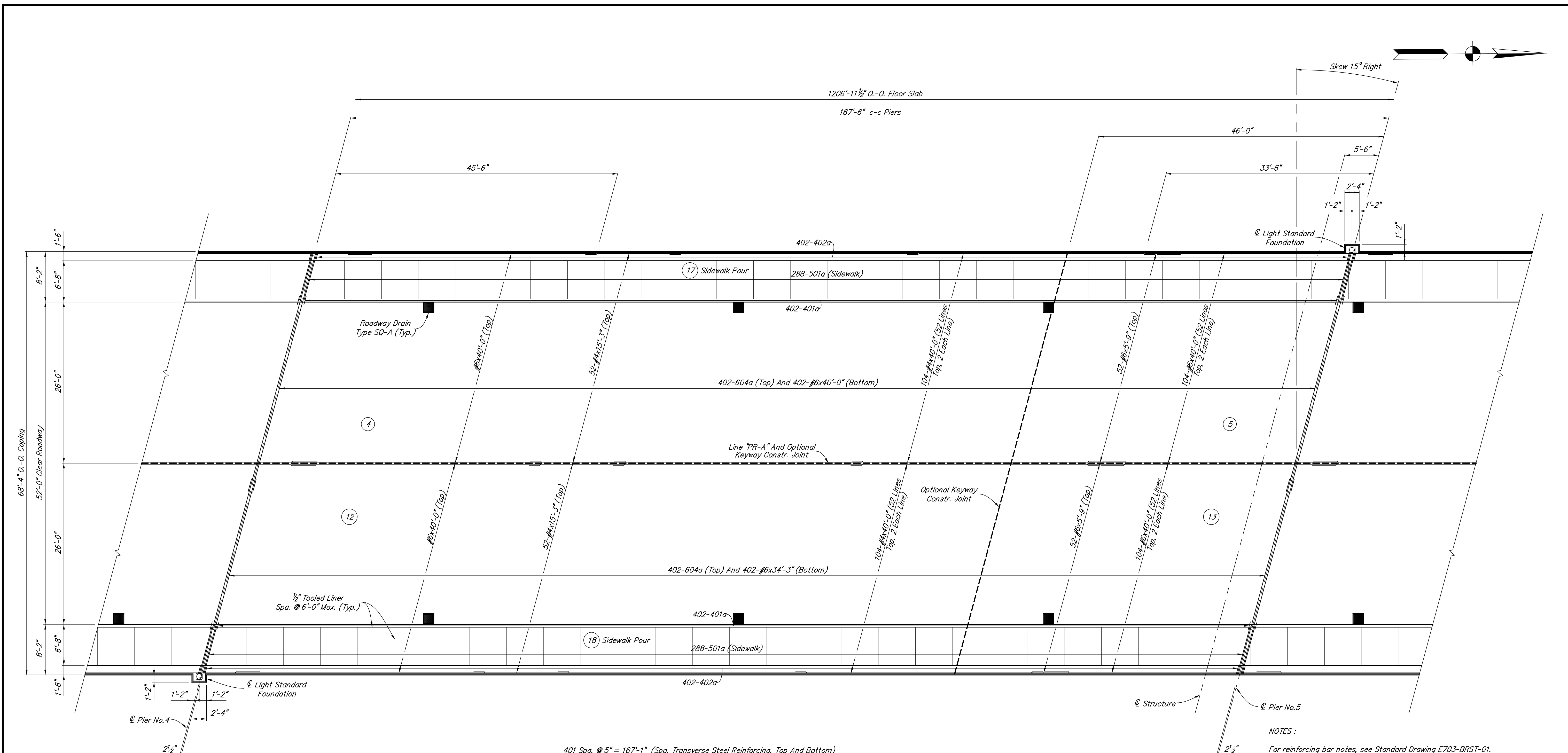
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
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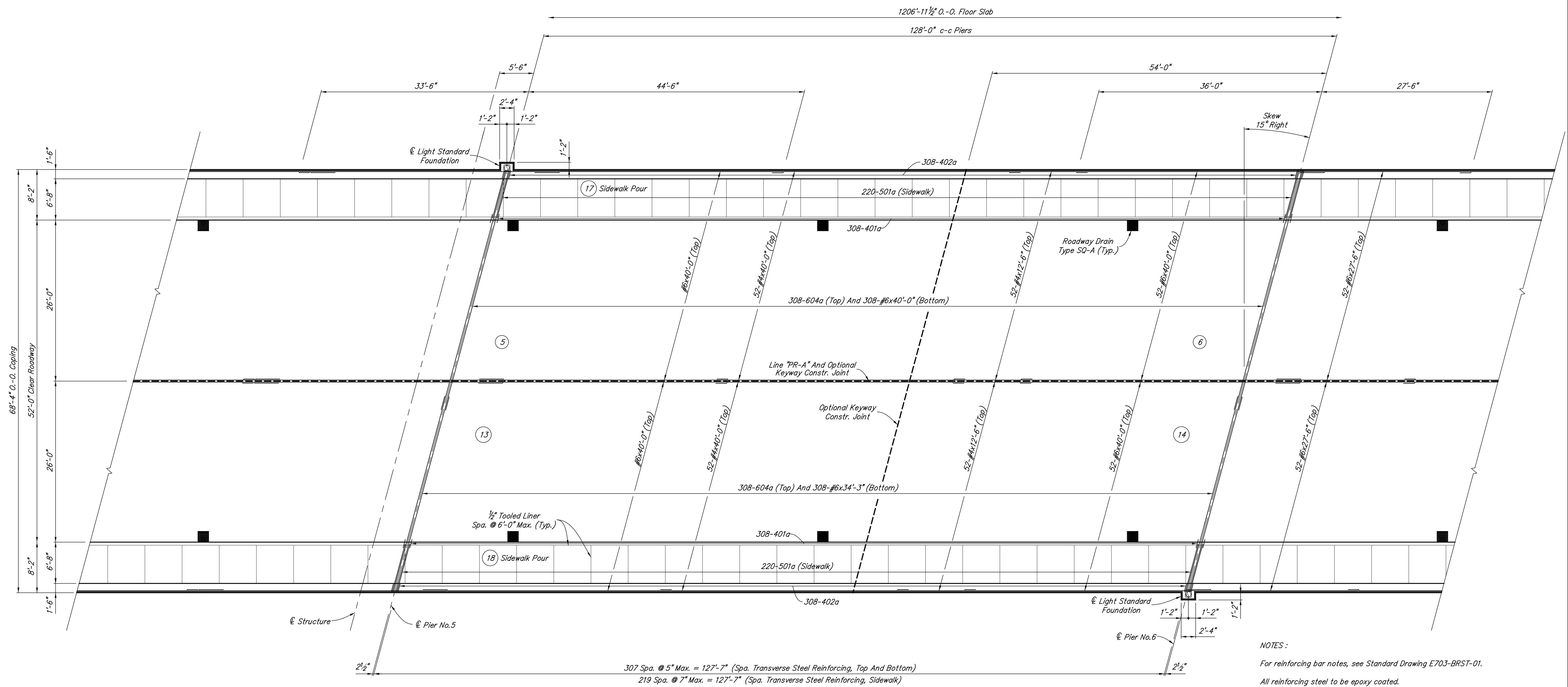
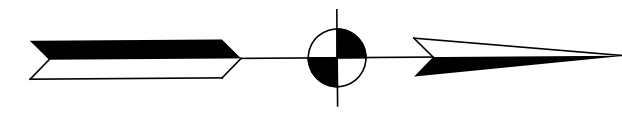
PARTIAL PLAN - SPAN "D"

401 Spa. @ 5" = 167'-1" (Spa. Transverse Steel Reinforcing, Top And Bottom)
 287 Spa. @ 7" Max. = 167'-1" (Spa. Transverse Steel Reinforcing, Sidewalk)

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES:**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - ⊗ Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.

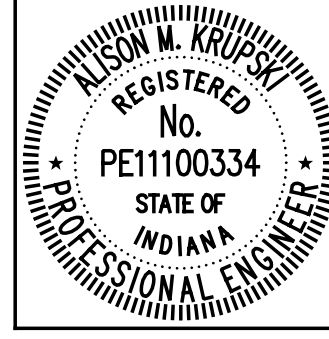
	RECOMMENDED FOR APPROVAL <i>Alison M. Krupski</i> DESIGN ENGINEER	6/1/2012 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
	DESIGNED: AMK CHECKED: RMC	DRAWN: DSH CHECKED: AMK	SUPERSTRUCTURE DETAILS	VERTICAL SCALE DESIGNATION NO. 0014210	SURVEY BOOK B-33357



PARTIAL PLAN - SPAN "E"

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES:**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - (X) Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.

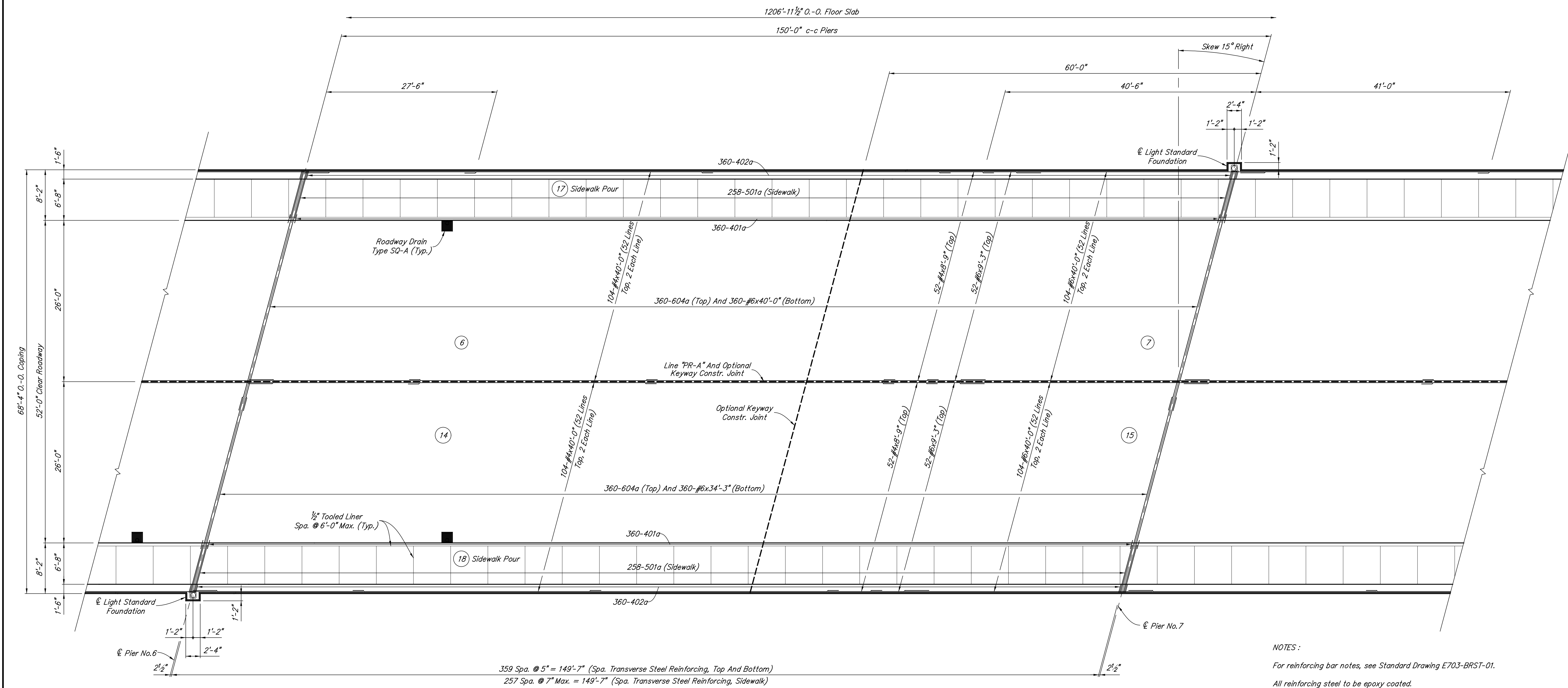
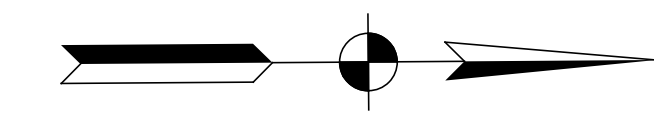


RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
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CONTRACT	PROJECT NO.
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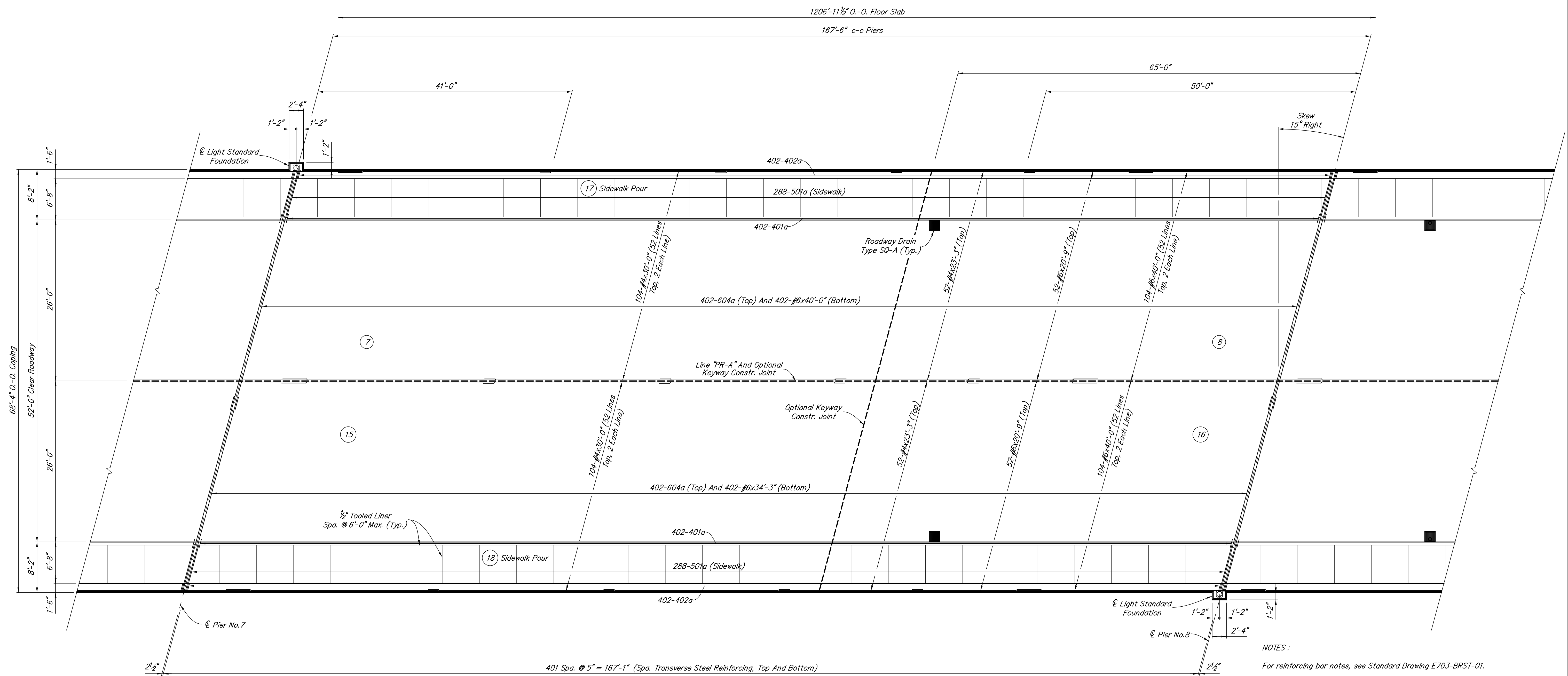
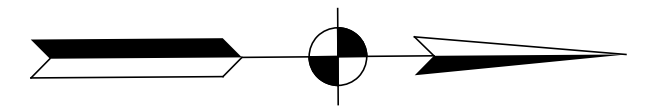


PARTIAL PLAN - SPAN "F"

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES :**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - (X) Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.

	RECOMMENDED FOR APPROVAL Alison M. Krupski DESIGN ENGINEER	6/1/2012 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
	DESIGNED: AMK CHECKED: RMC	DRAWN: DSH CHECKED: AMK	SUPERSTRUCTURE DETAILS	VERTICAL SCALE PROJECT NO. B-33357	SURVEY BOOK CONTRACT B-33357

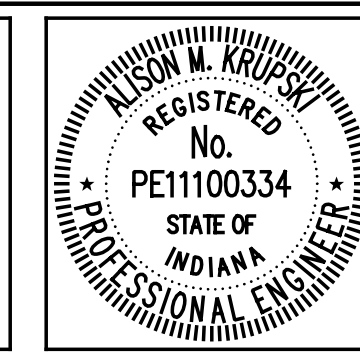


401 Spa. @ 5" = 167'-1" (Spa. Transverse Steel Reinforcing, Top And Bottom)
 287 Spa. @ 7" Max. = 167'-1" (Spa. Transverse Steel Reinforcing, Sidewalk)

PARTIAL PLAN - SPAN "G"

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

- NOTES :**
- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
 - For Typical Section, see Sheet No. 100.
 - For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.
 - For Light Standard Foundation location, see General Plan.
 - For additional lighting details, see Sheet No. 105.
 - (X) Indicates concrete pour number.
 - Sequence of concrete pours to be made in order of pour numbers.
 - Screed data will be furnished upon request.



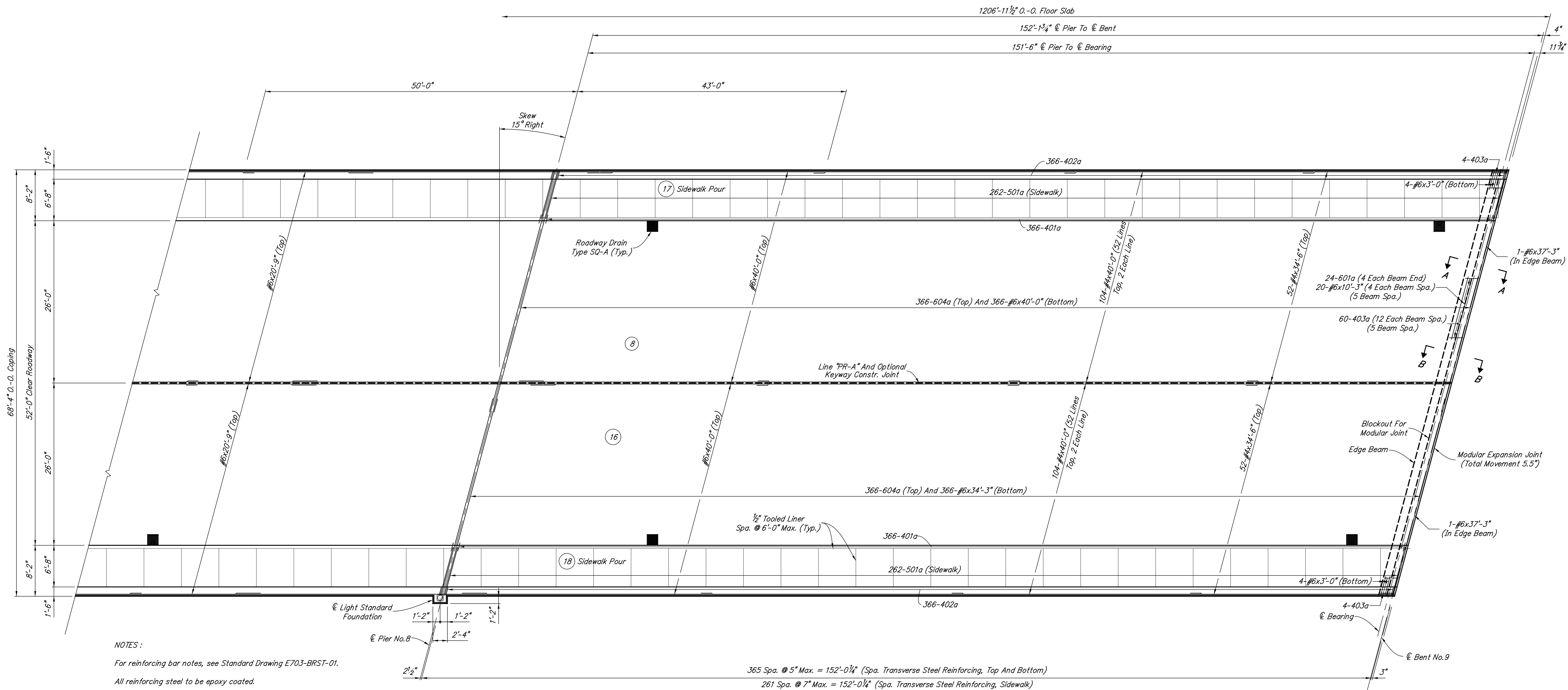
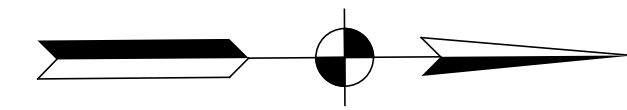
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

INDIANA
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 98 of 149
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NOTES:

For reinforcing bar notes, see Standard Drawing E703-BRST-01.

All reinforcing steel to be epoxy coated.

Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.

For Typical Section, see Sheet No. 100.

For bar bending diagrams, Bill of Materials and additional details, see Sheet No. 107.

For Light Standard Foundation location, see General Plan.

For additional lighting details, see Sheet No. 105.

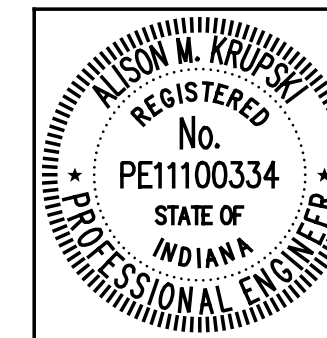
(X) Indicates concrete pour number.

Sequence of concrete pours to be made in order of pour numbers.

Screed data will be furnished upon request.

Min. Lap	
#4	1'-8"
#5	2'-7"
#6	3'-10"

PARTIAL PLAN - SPAN "H"



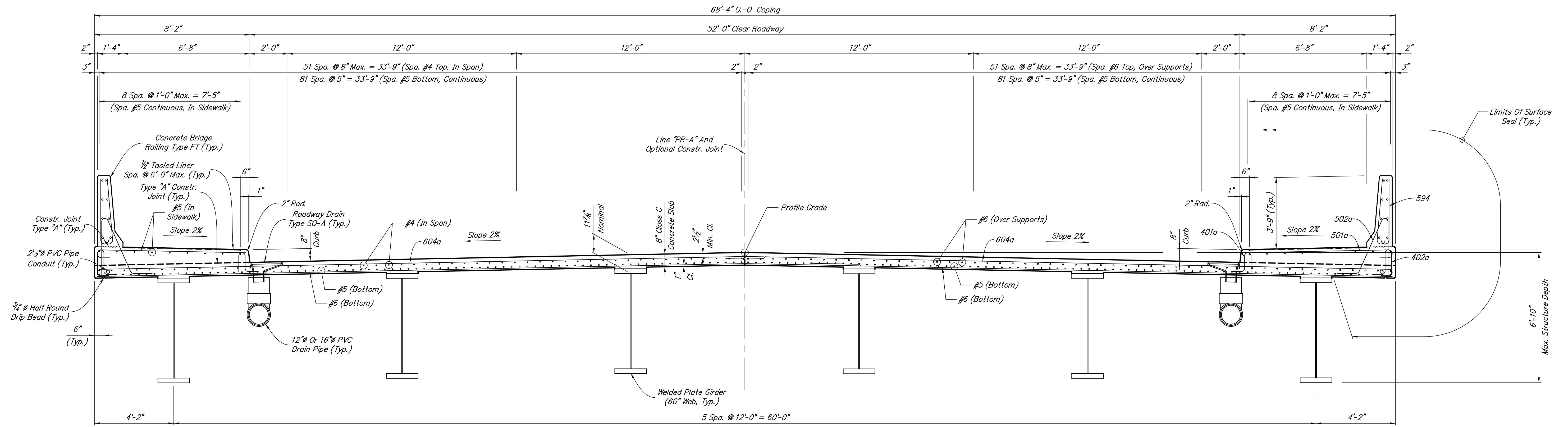
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

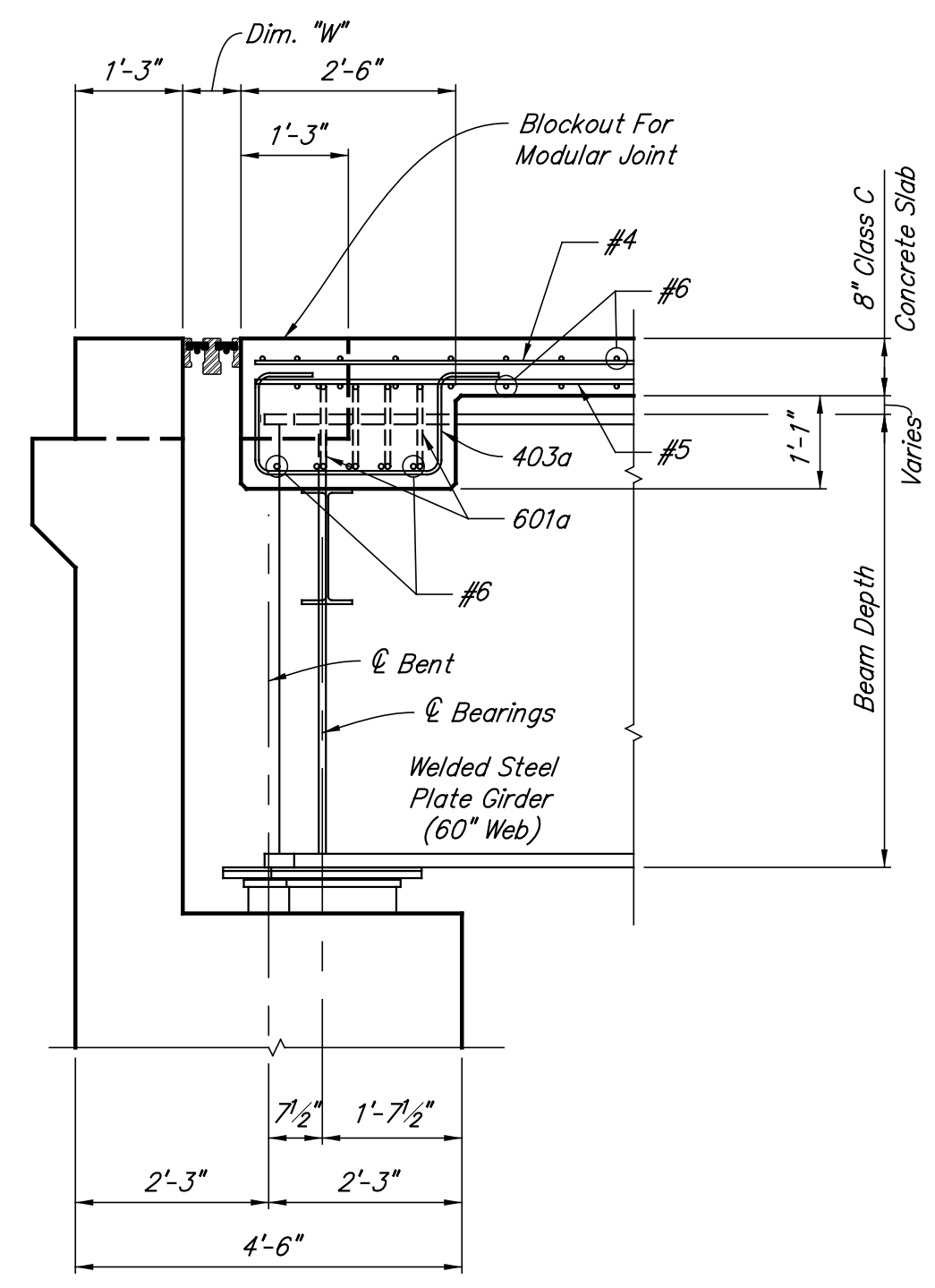
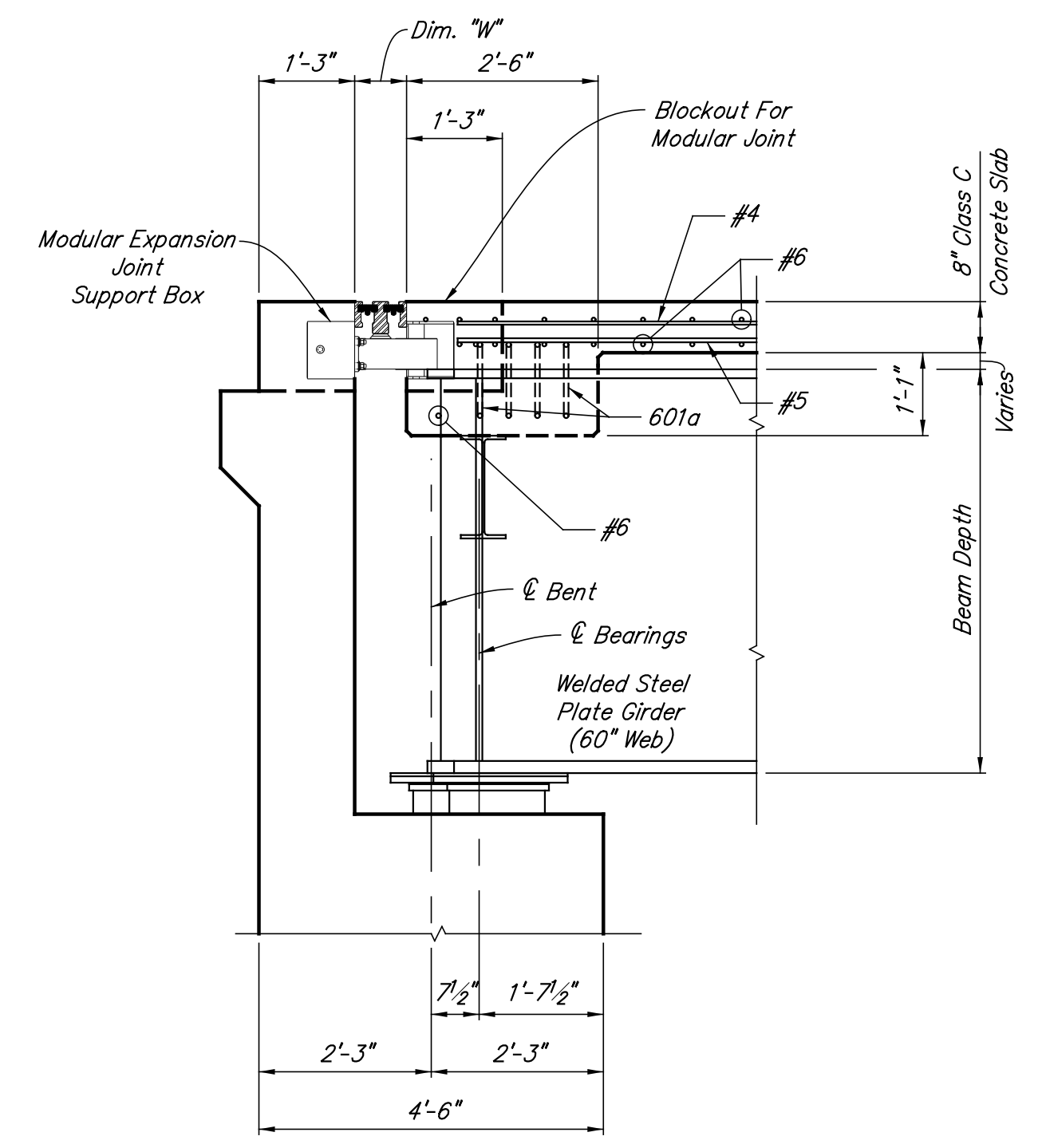
INDIANA
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
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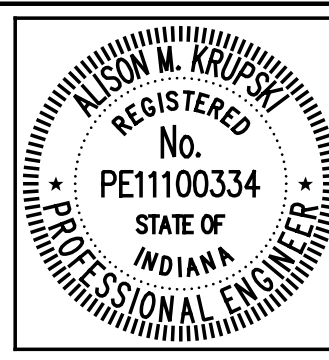


TYPICAL SECTION



NOTES:

- For reinforcing bar notes, see Standard Drawing E703-BRST-01.
- All reinforcing steel to be epoxy coated.
- Suitable restraint shall be provided to prevent the rotation of the outside beams under construction loads, such as finishing machines, forms, etc.
- For bar bending diagrams, Bill of Materials and additional details, see Sheet No.107.

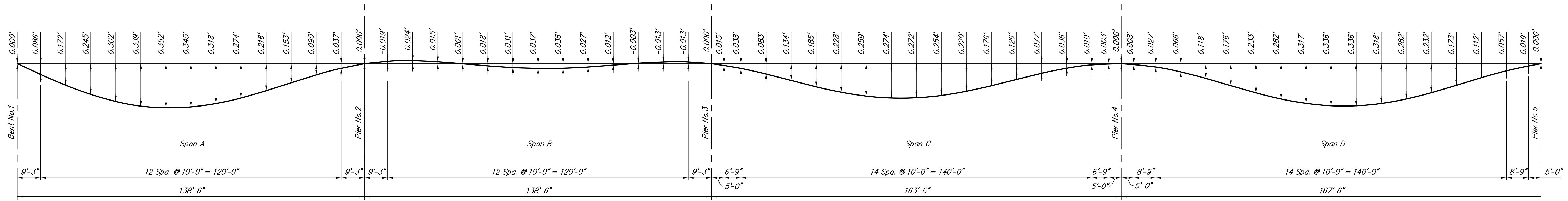


RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

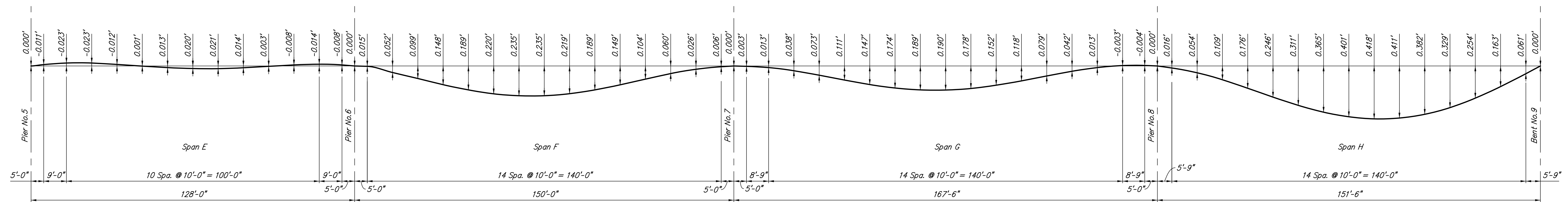
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

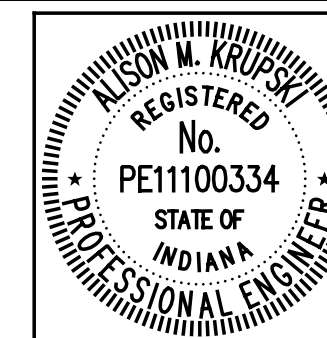
HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	100 of 149
CONTRACT	PROJECT NO.
B-33357	N881008



CONCRETE DEAD LOAD DEFLECTIONS (In Feet)



CONCRETE DEAD LOAD DEFLECTIONS (In Feet)



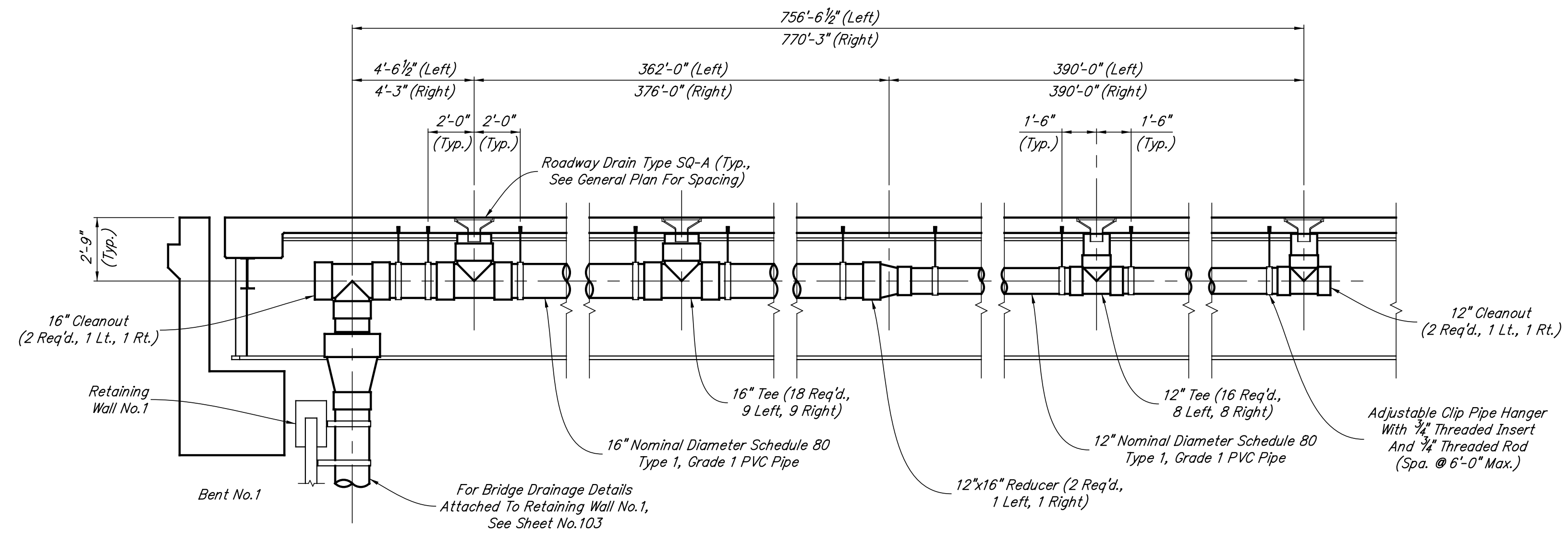
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: AMK DRAWN: DSH
 CHECKED: RMC CHECKED: AMK

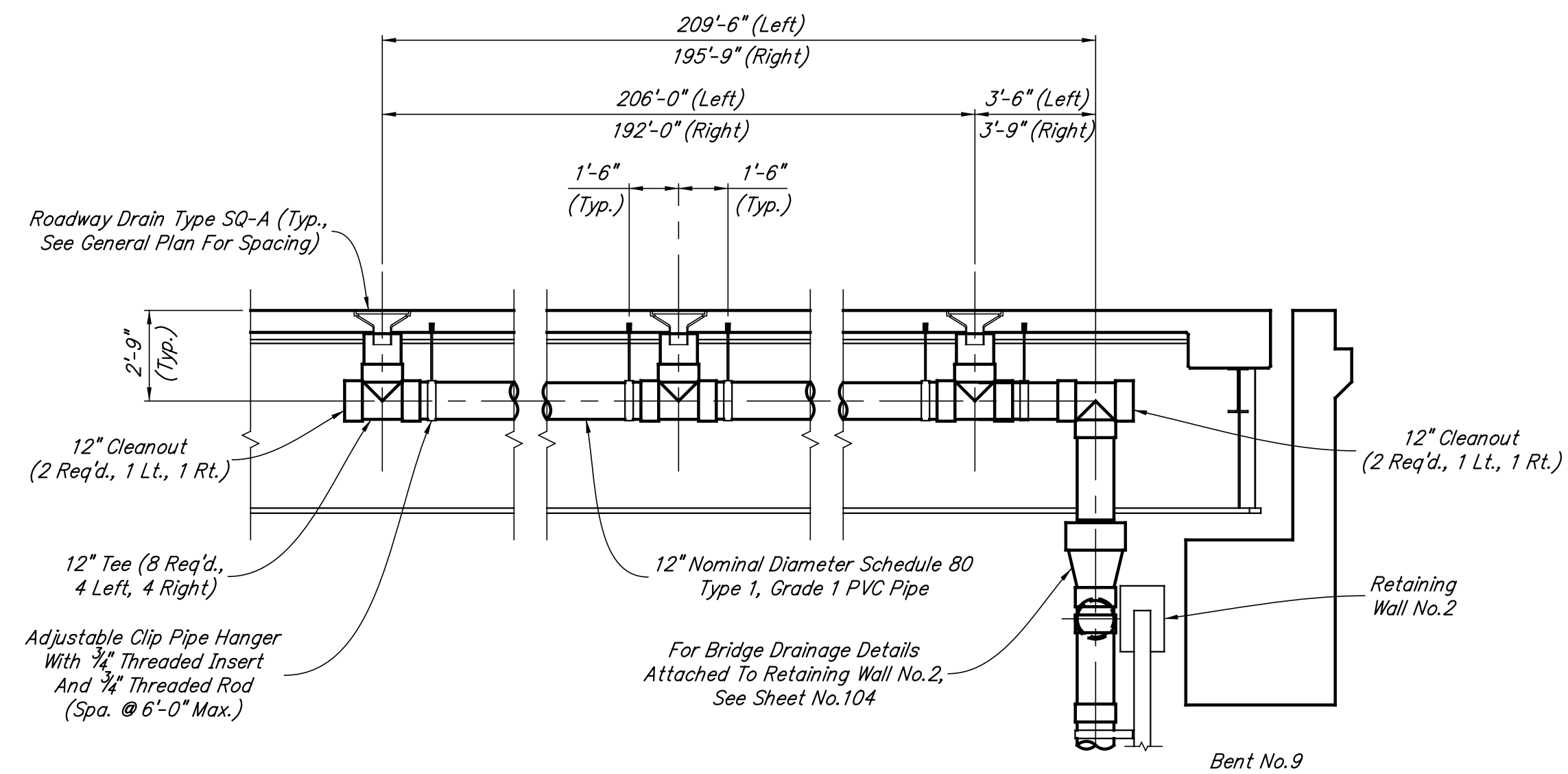
INDIANA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

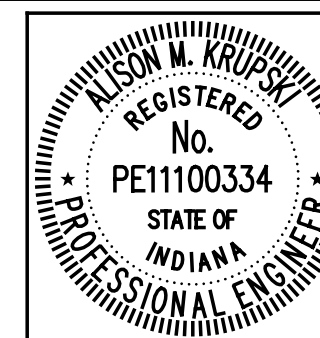
HORIZONTAL SCALE NONE	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 101 of 149
CONTRACT B-33357	PROJECT NO. N881008



BRIDGE DRAINAGE LONGITUDINAL SECTION - SPANS "A"-"F"



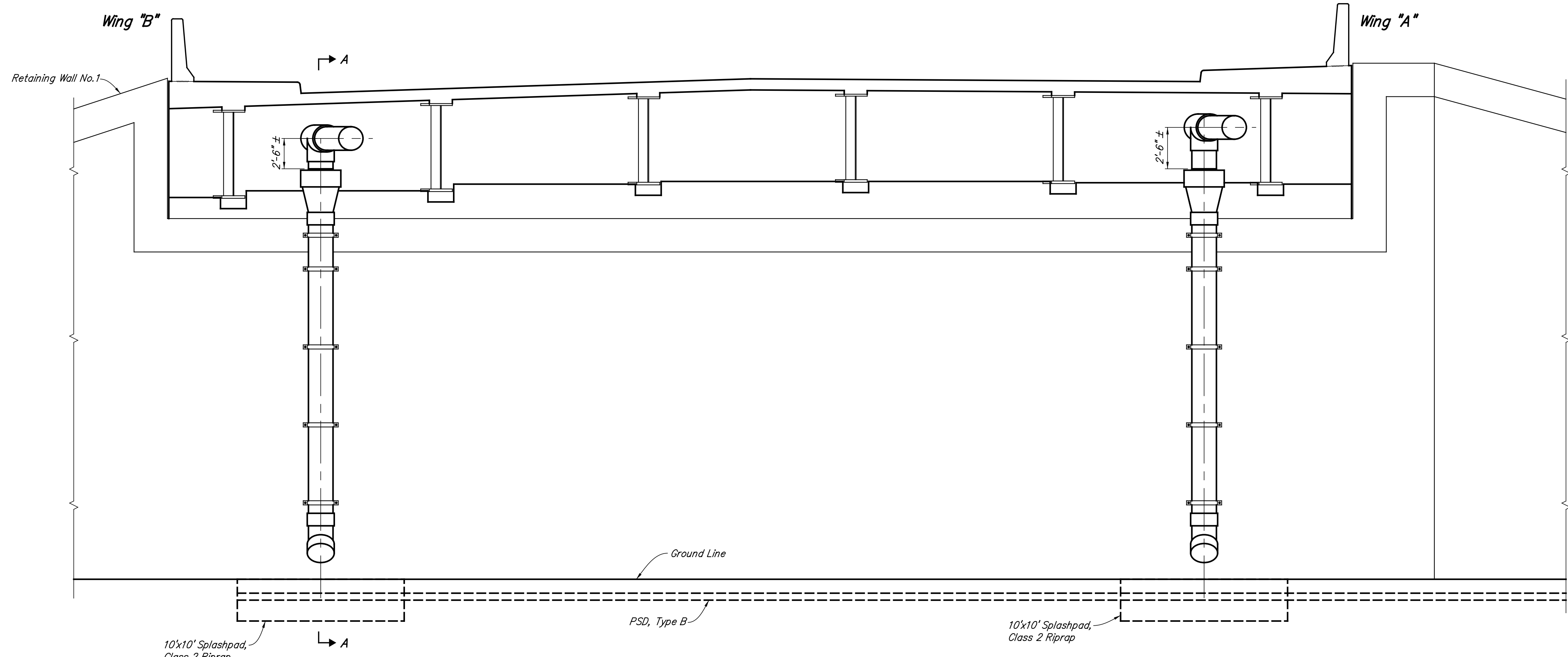
BRIDGE DRAINAGE LONGITUDINAL SECTION - SPANS "G" AND "H"



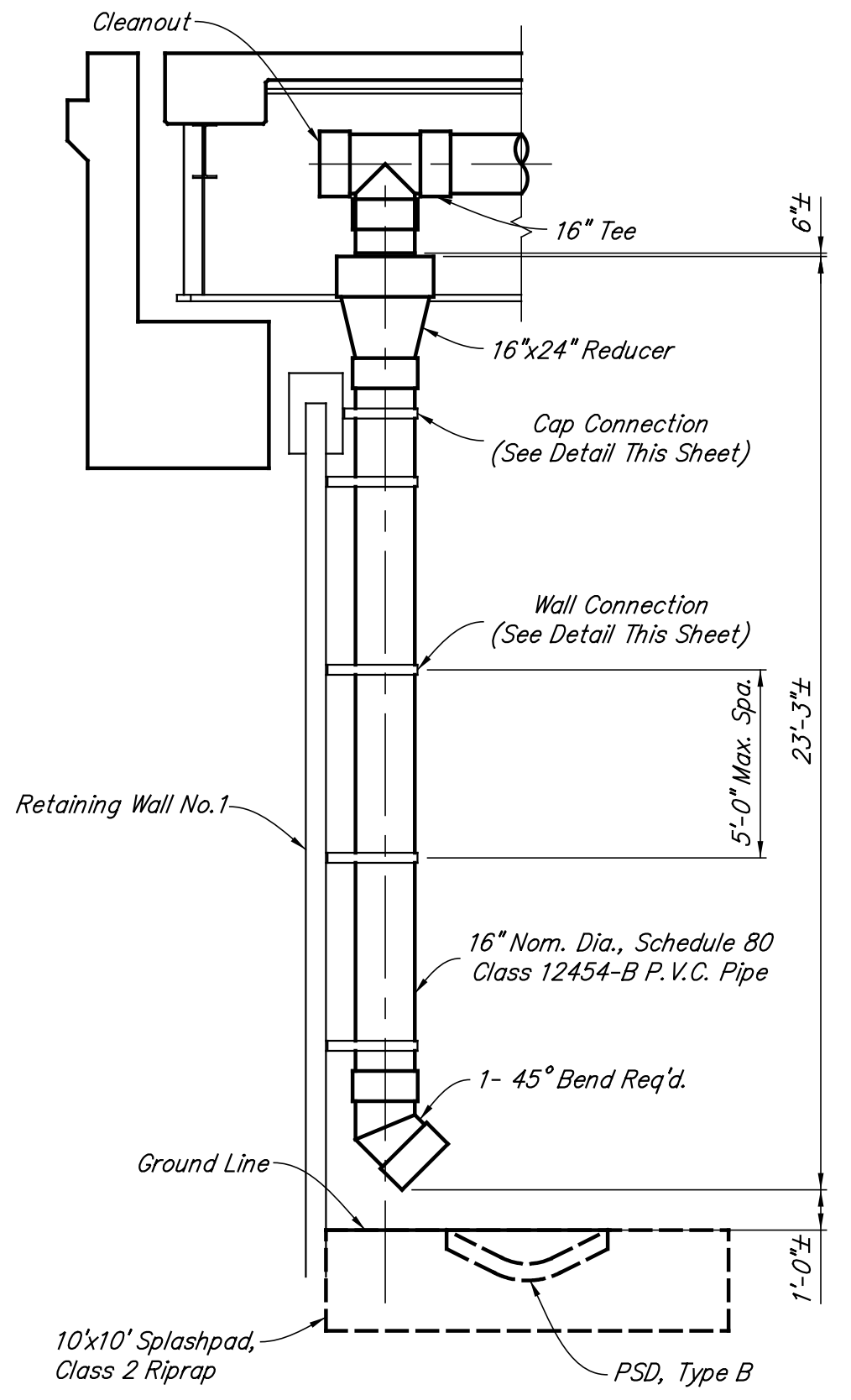
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	NRM	DRAWN: DSH
CHECKED:	DAD	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
SUPERSTRUCTURE DETAILS	

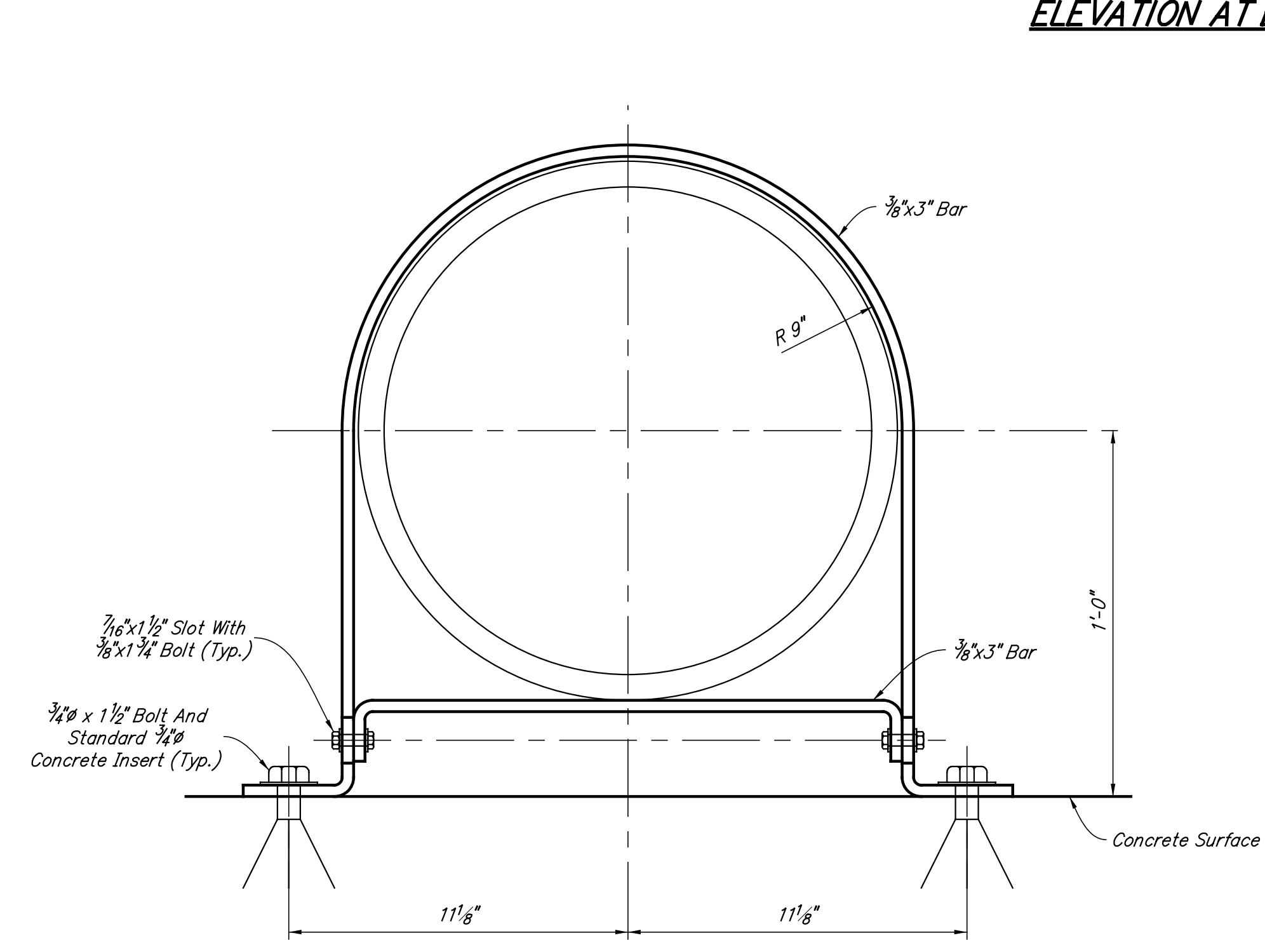
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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ELEVATION AT BENT NO.1

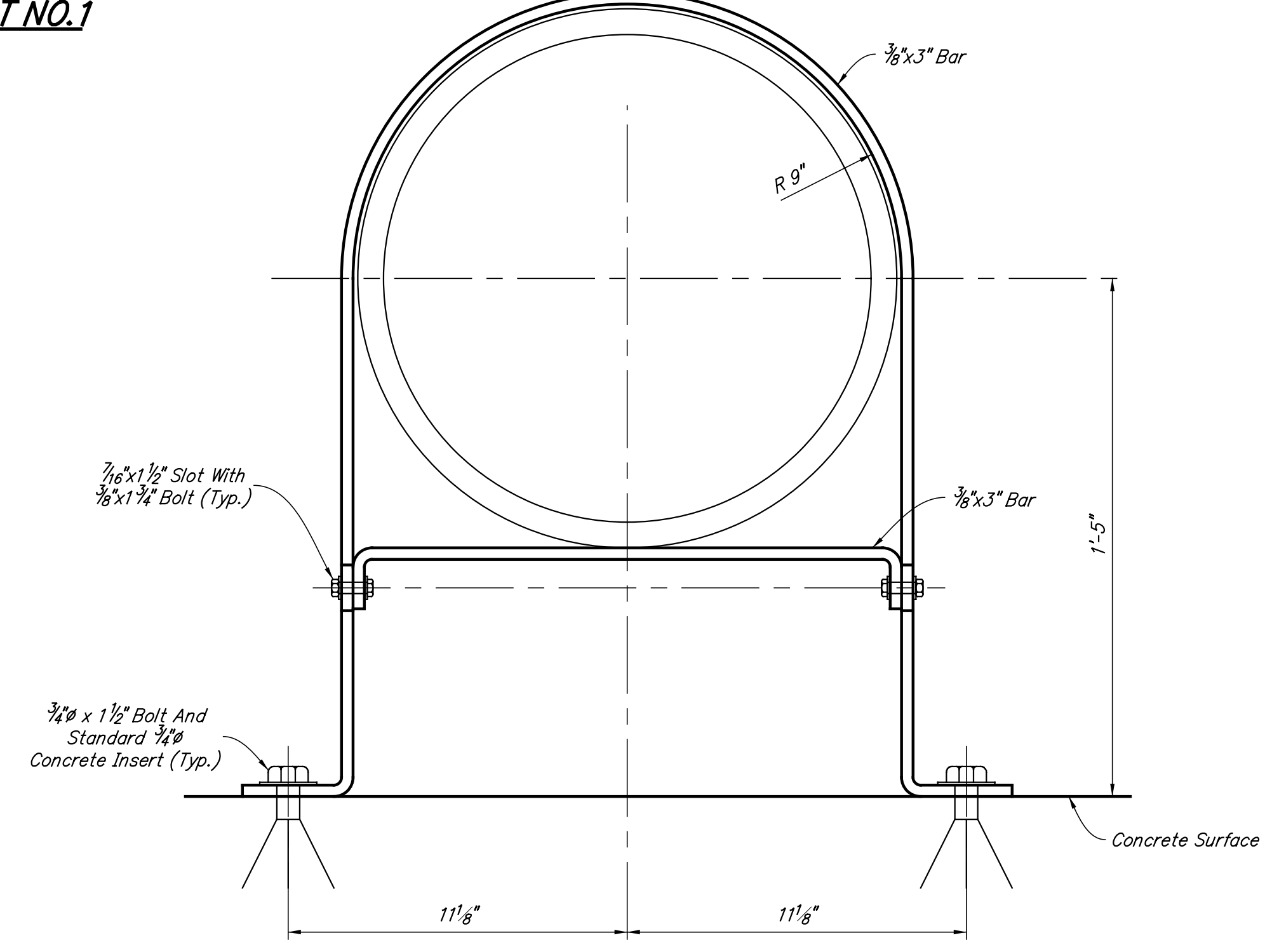


SECTION A-A



CAP CONNECTION DETAIL

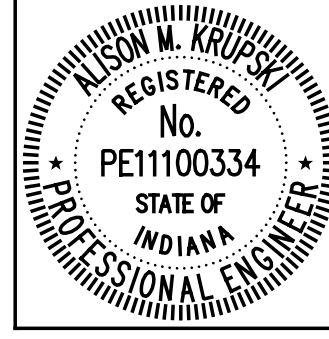
Scale: 3" = 1'-0"



WALL CONNECTION DETAIL

Scale: 3" = 1'-0"

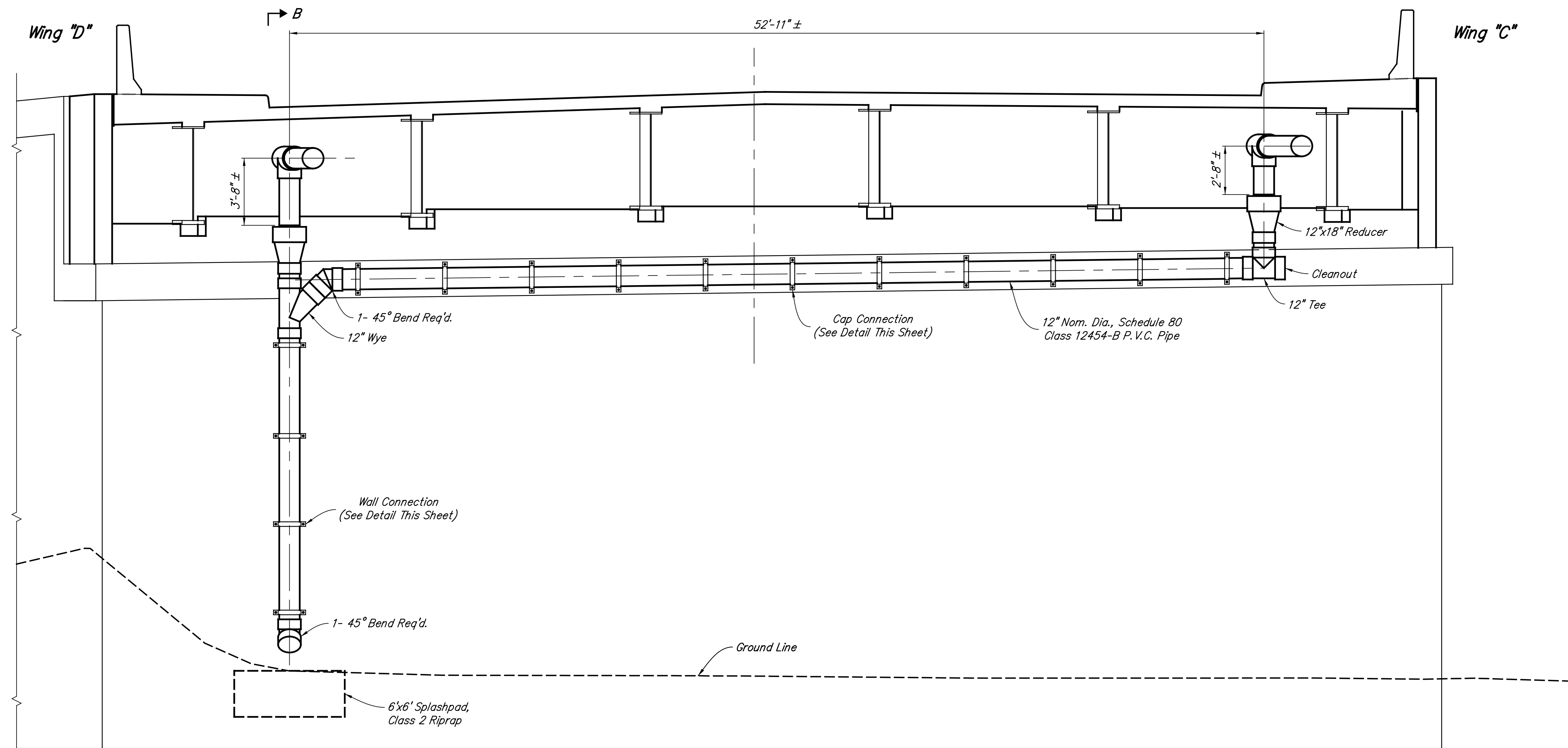
NOTES:
The cost of hangers, straps, bolts, concrete inserts, clean-out covers and miscellaneous items to be included in the cost of PVC Pipe.



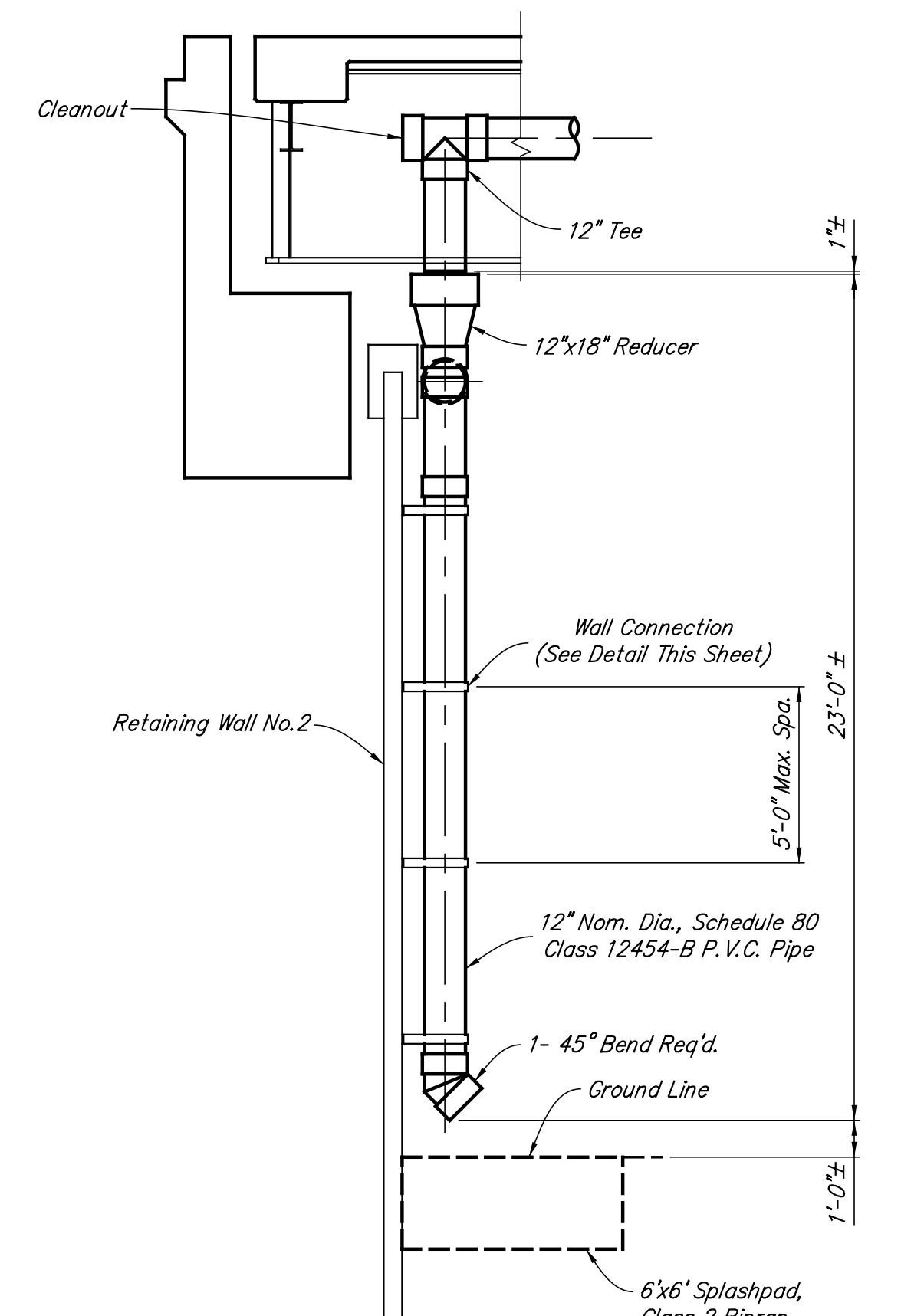
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
DESIGN ENGINEER DATE
DESIGNED: NRM DRAWN: DSH
CHECKED: DAD CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS

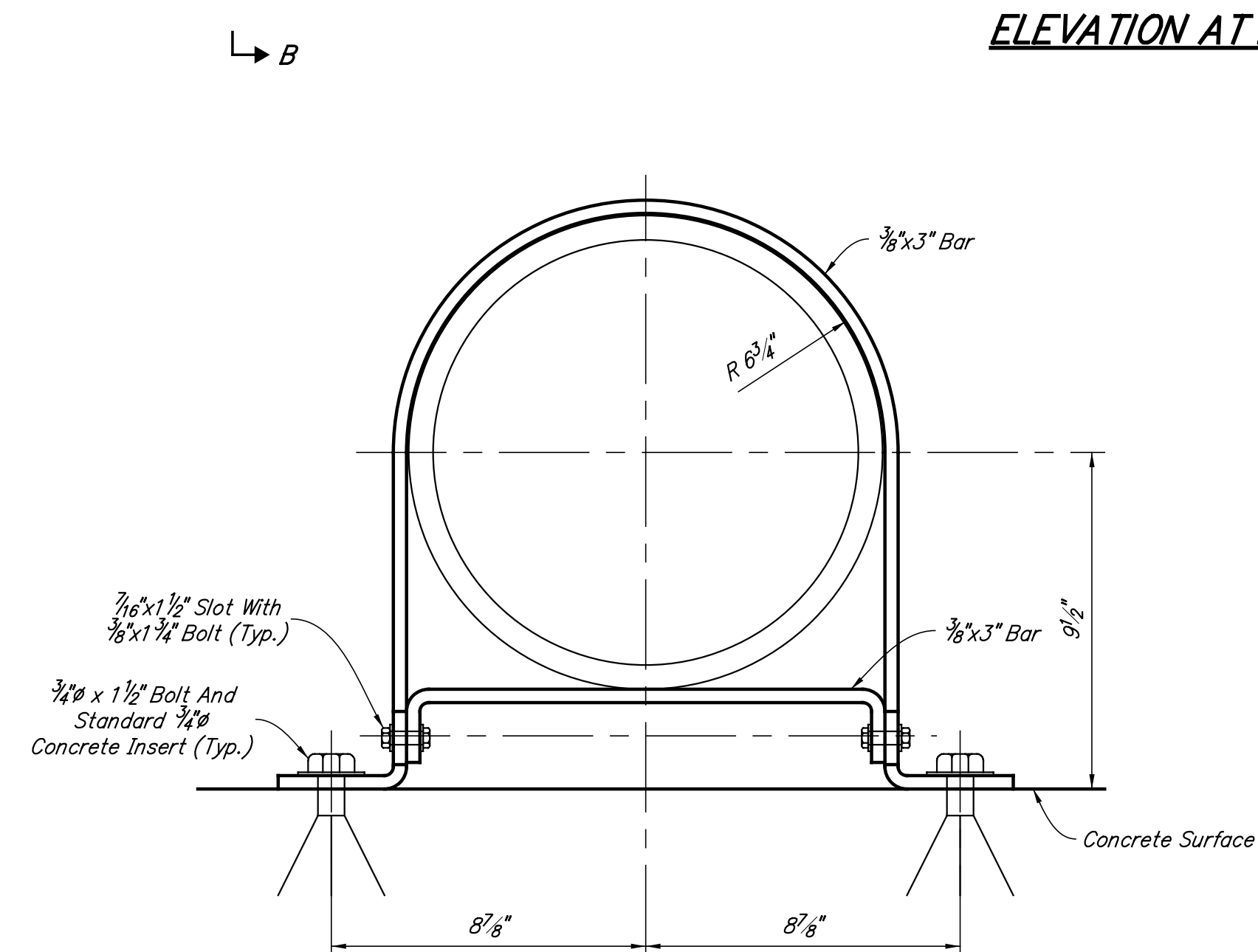
HORIZONTAL SCALE 1/4" = 1'-0", U.N.	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 103 of 149
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ELEVATION AT BENT NO.9

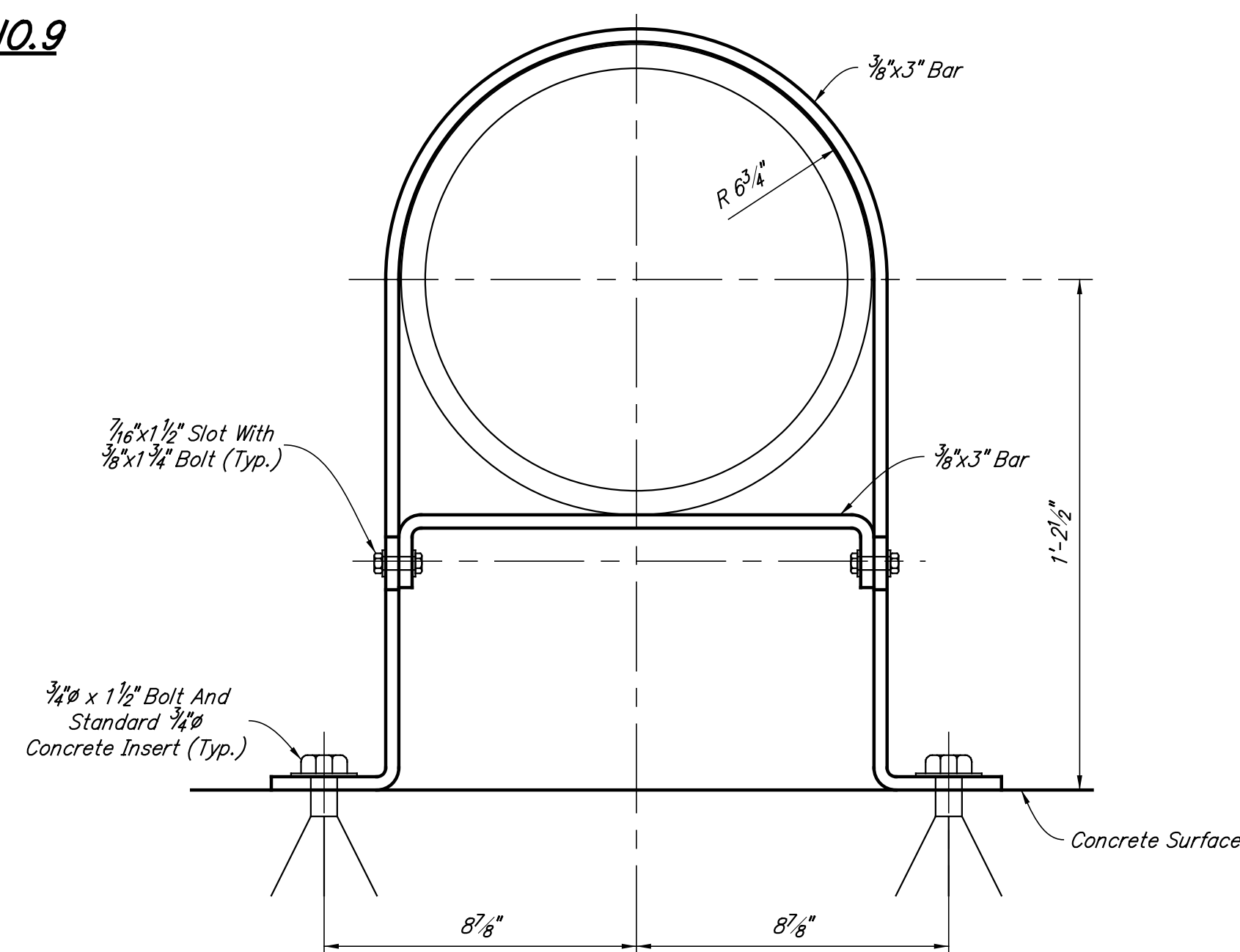


SECTION B-B



CAP CONNECTION DETAIL

Scale : 3" = 1'-0"

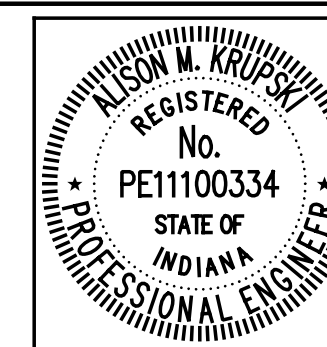


WALL CONNECTION DETAIL

Scale : 3" = 1'-0"

NOTES :

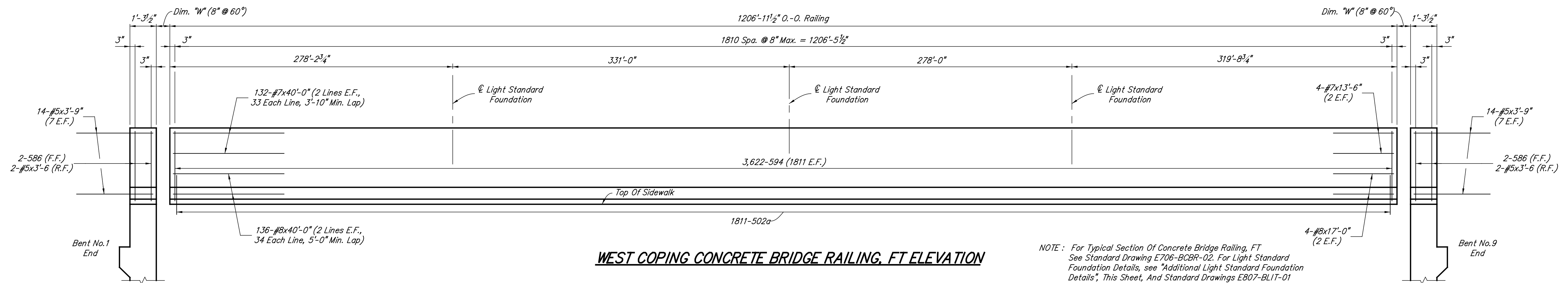
The cost of hangers, straps, bolts, concrete inserts, clean-out covers and miscellaneous items to be included in the cost of PVC Pipe.



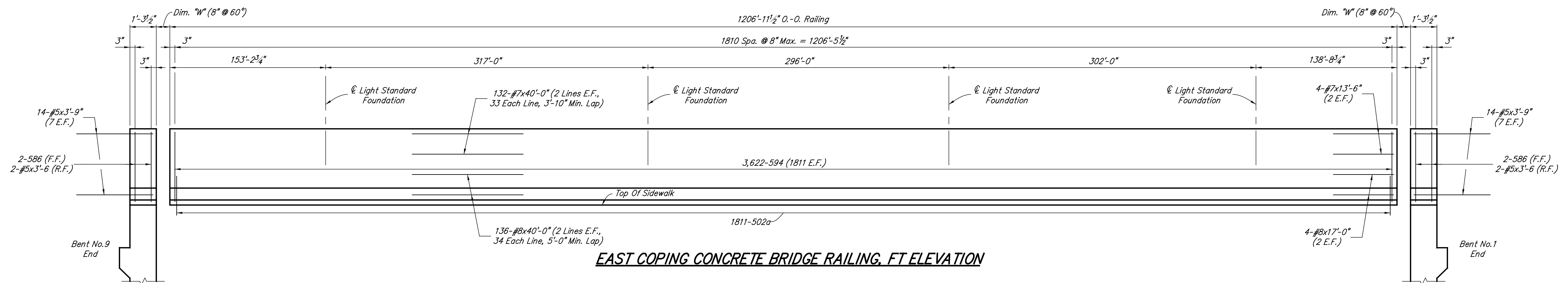
RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	NRM	DRAWN:
		DSH
CHECKED:	DAD	CHECKED:
		AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
SUPERSTRUCTURE DETAILS	

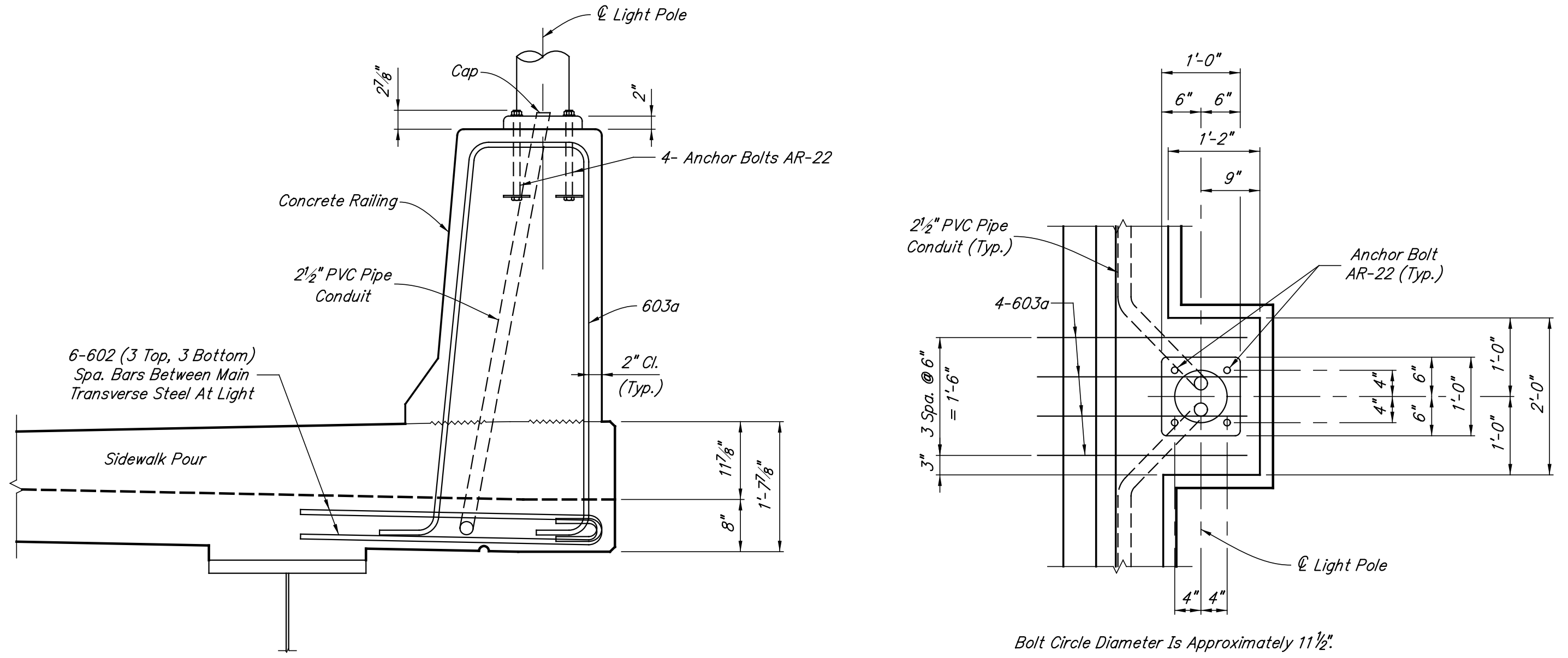
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0", U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
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WEST COPING CONCRETE BRIDGE RAILING, FT ELEVATION

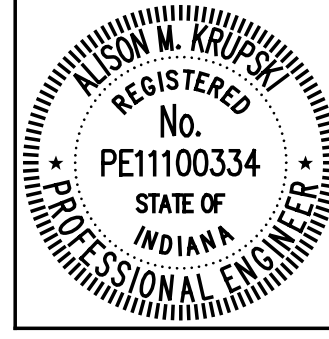


EAST COPING CONCRETE BRIDGE RAILING, FT ELEVATION



ADDITIONAL LIGHT STANDARD FOUNDATION DETAILS
Scale: 3/4" = 1'-0"

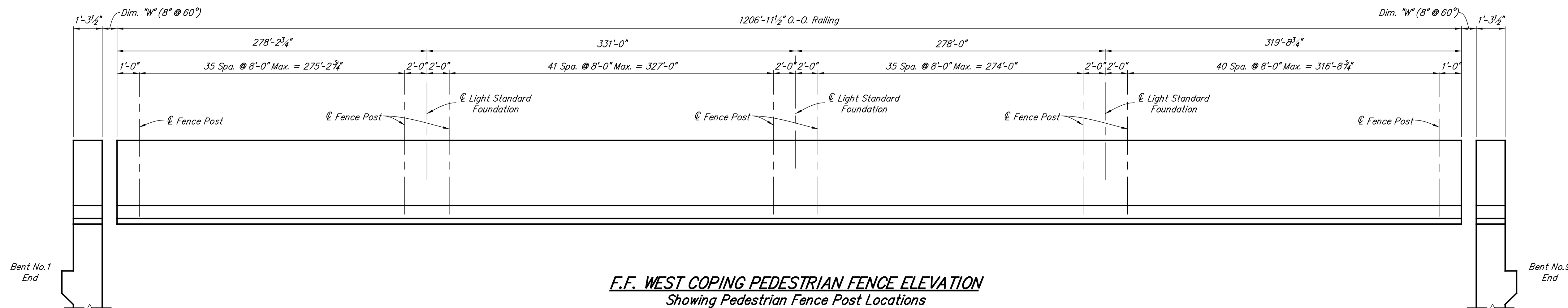
NOTES:
For reinforcing bar notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be epoxy coated, unless otherwise noted.



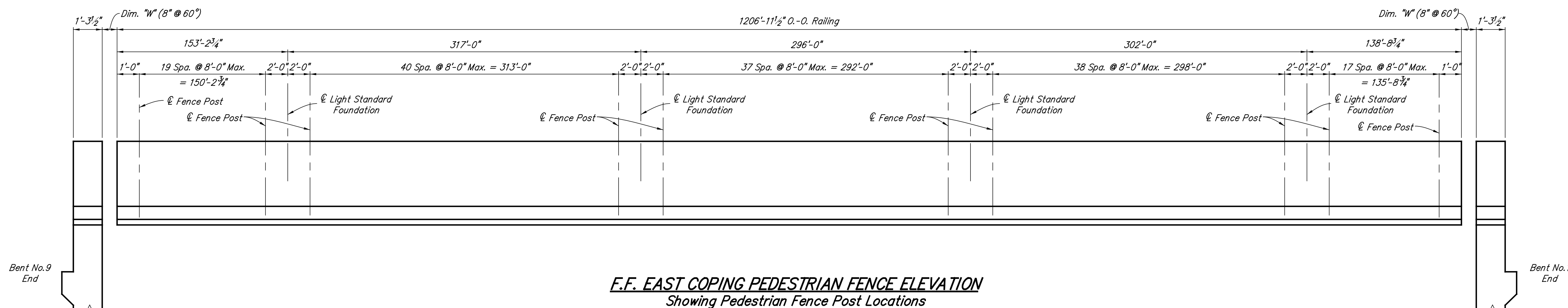
RECOMMENDED FOR APPROVAL *Alison M. Krupski* 6/1/2012
DESIGN ENGINEER DATE
DESIGNED: AMK DRAWN: DSH
CHECKED: RMC CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS

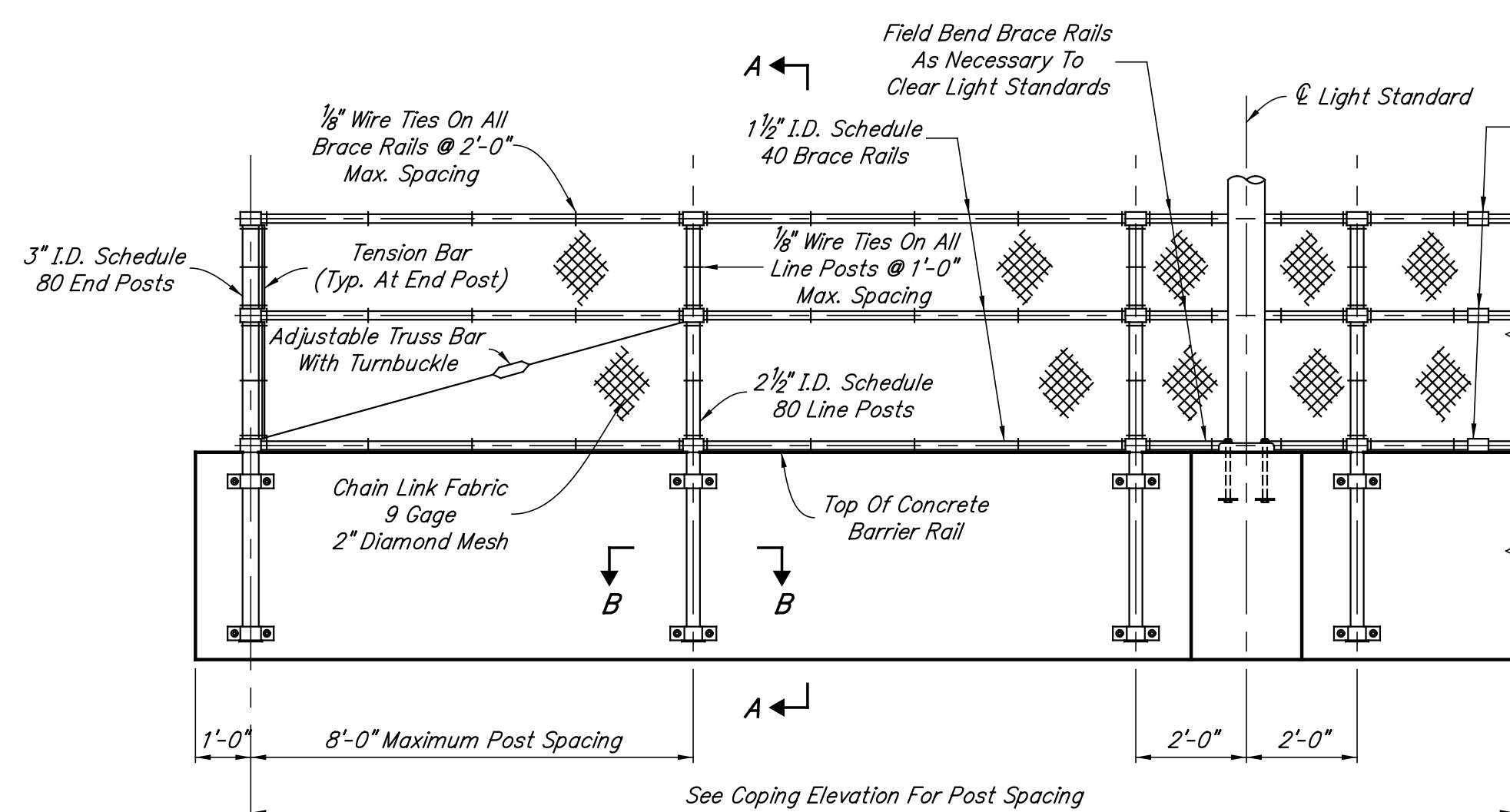
HORIZONTAL SCALE	BRIDGE FILE
NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
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F.F. WEST COPING PEDESTRIAN FENCE ELEVATION
Showing Pedestrian Fence Post Locations

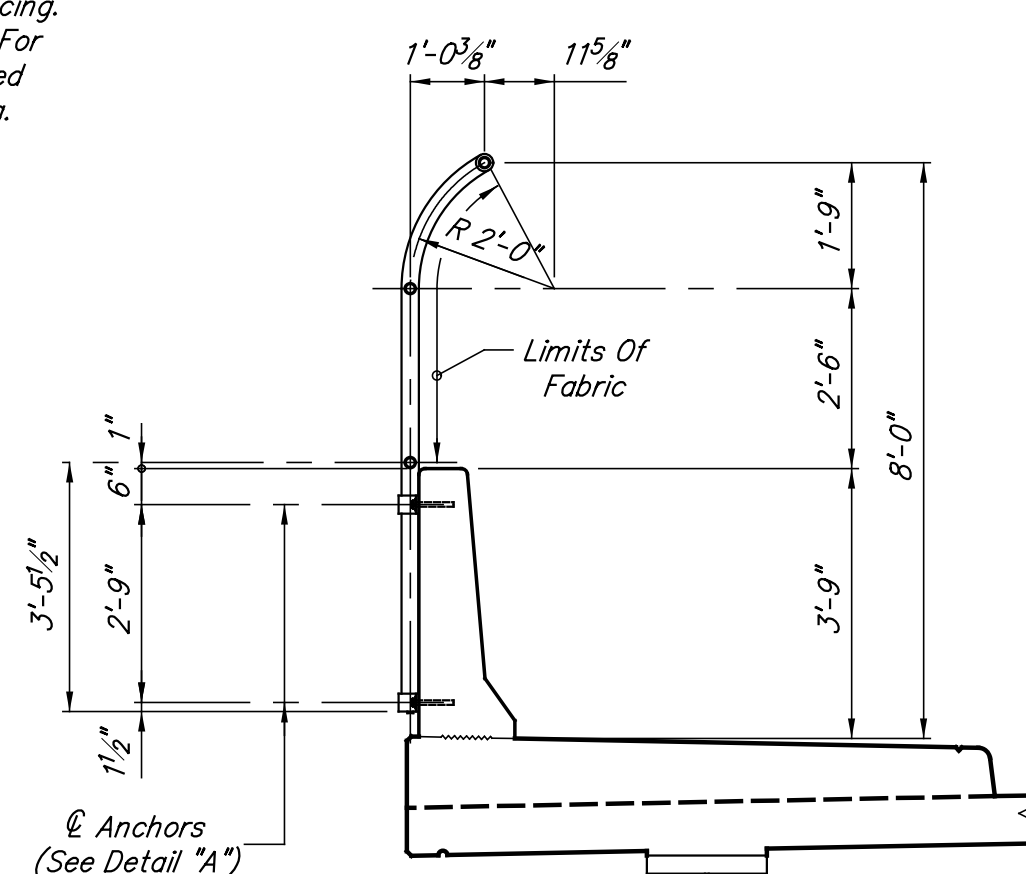


F.F. EAST COPING PEDESTRIAN FENCE ELEVATION
Showing Pedestrian Fence Post Locations

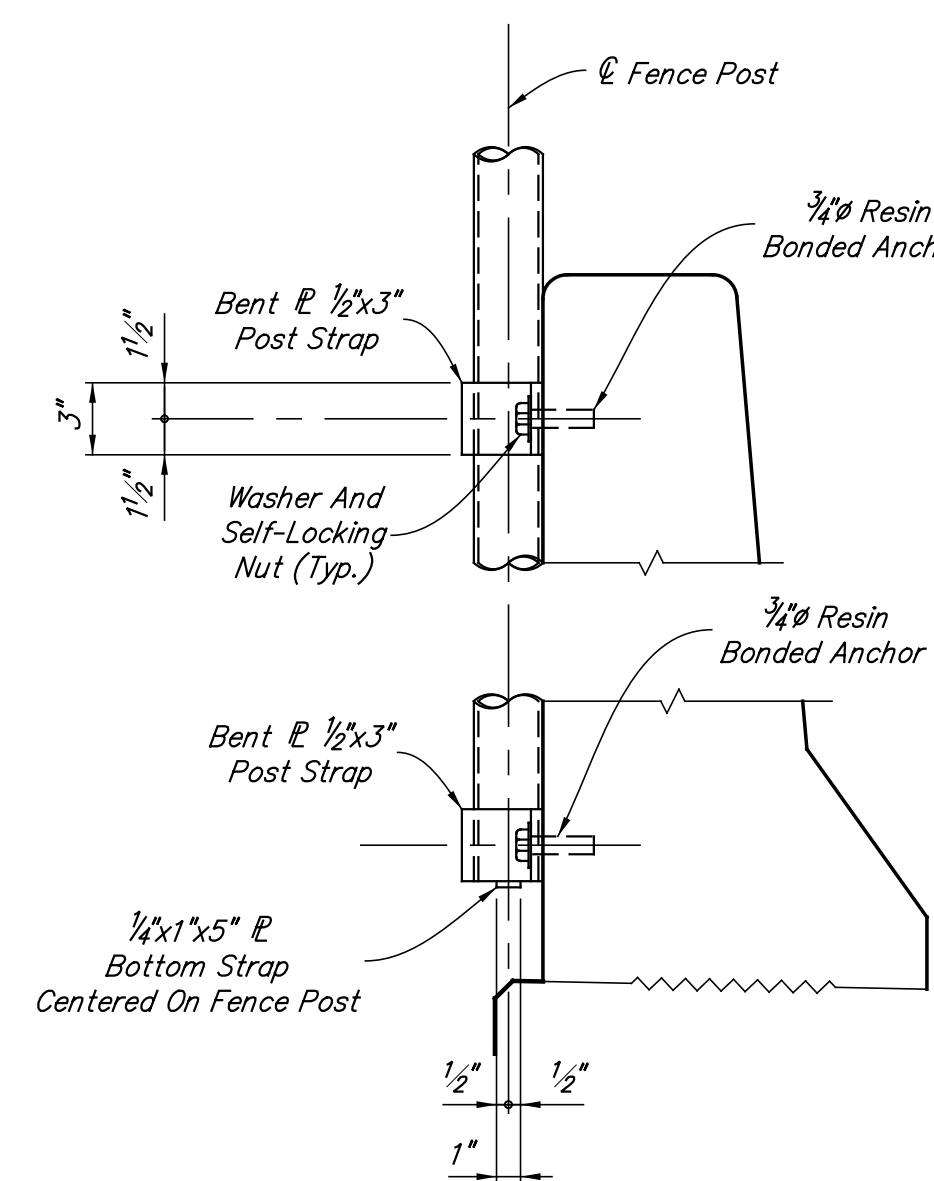


PEDESTRIAN FENCE TYPICAL ELEVATION
Scale: 3/4\"/>

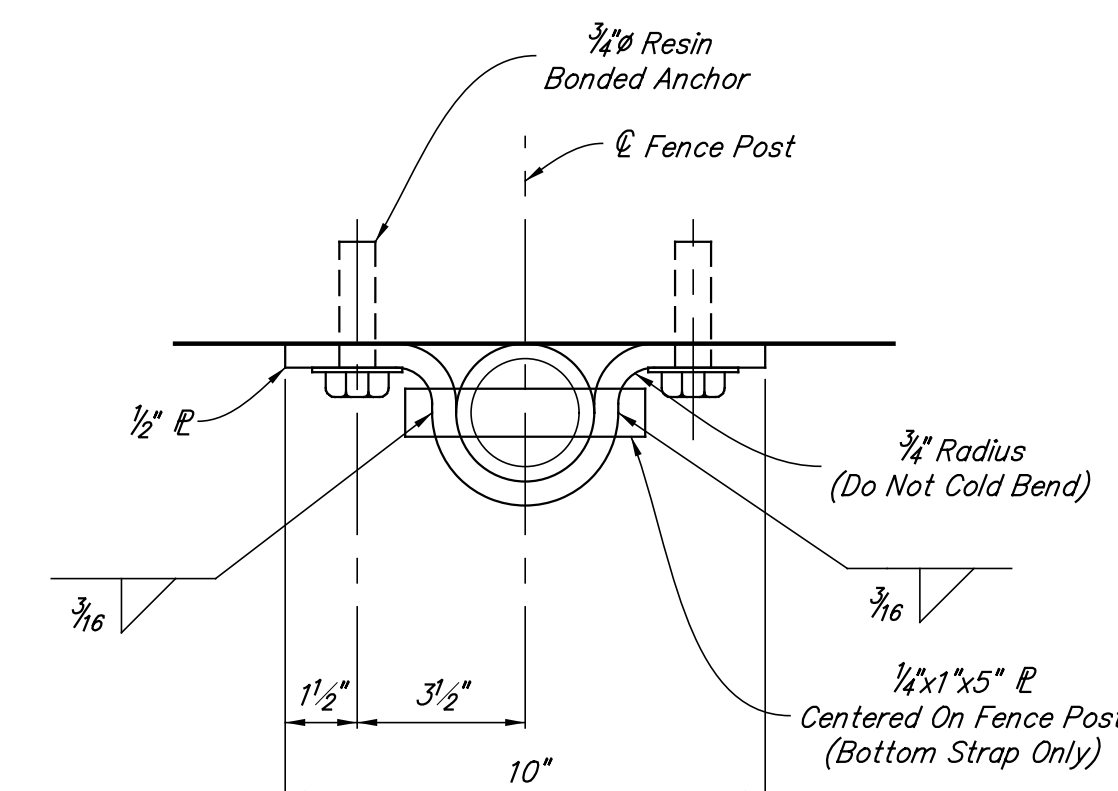
Outside Sleeve Type Coupling
@ 27'-0\"/>



SECTION A-A
Scale: 3/4\"/>

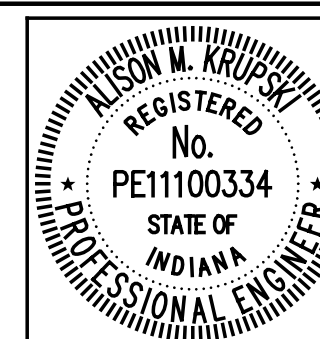


DETAIL A-A
Scale: 1 1/2\"/>



SECTION B-B
Scale: 3\"/>

NOTES:
As an alternate to Resin Bonded Anchor use
2- 1/2\"/>



RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	DSH	DRAWN:
CHECKED:	DAD	CHECKED:

INDIANA
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS

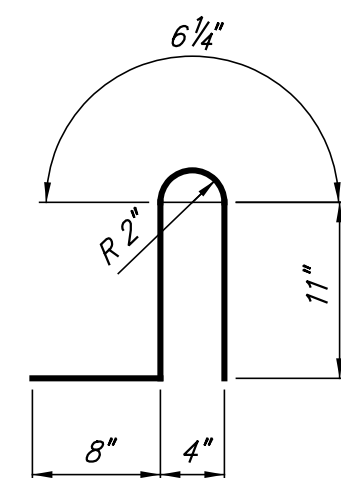
HORIZONTAL SCALE	BRIDGE FILE
NONE, U.N.	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	106 of 149
CONTRACT	PROJECT NO.
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**SUPERSTRUCTURE
BILL OF MATERIALS**

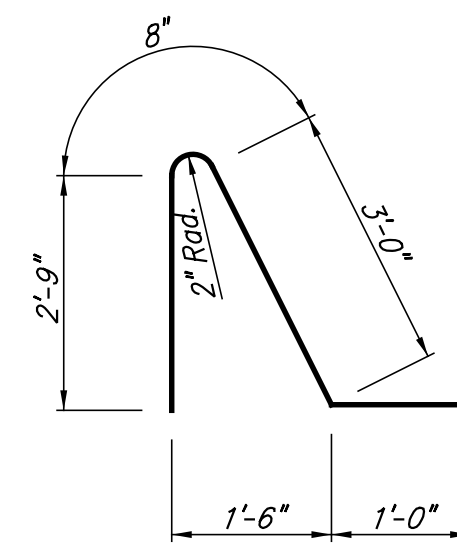
Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#8	272	40'-0"	
#9	8	17'-0"	
Total No. 8			29413
#7	264	40'-0"	
#7	8	13'-6"	
Total No. 7			21806
601a	48	10'-0"	
602	42	4'-8"	
603a	28	13'-0"	
604a	5798	37'-10"	
#6	4147	40'-0"	
#6	104	38'-0"	
#6	4	37'-3"	
#6	2899	34'-3"	
#6	104	27'-6"	
#6	104	20'-9"	
#6	104	20'-3"	
#6	20	10'-6"	
#6	20	10'-3"	
#6	104	9'-3"	
#6	104	5'-9"	
#6	104	5'-3"	
#6	16	3'-0"	
Total No. 6			750043
501a	4150	8'-4"	
502a	3622	7'-5"	
586	8	3'-7"	
594	7244	4'-0"	
#5	5824	40'-0"	
#5	182	9'-6"	
#5	56	3'-9"	
#5	8	3'-6"	
Total No. 5			339370
401a	5798	3'-0"	
402a	5798	3'-6"	
403a	136	5'-6"	
#4	1248	40'-0"	
#4	104	34'-6"	
#4	104	32'-0"	
#4	208	30'-0"	
#4	104	23'-3"	
#4	104	17'-6"	
#4	104	15'-3"	
#4	104	12'-6"	
#4	104	10'-3"	
#4	104	8'-9"	
Total No. 4			73889
Total Epoxy Coated Reinforcing Steel			1214521

**SUPERSTRUCTURE
BILL OF MATERIALS (CONTD.)**

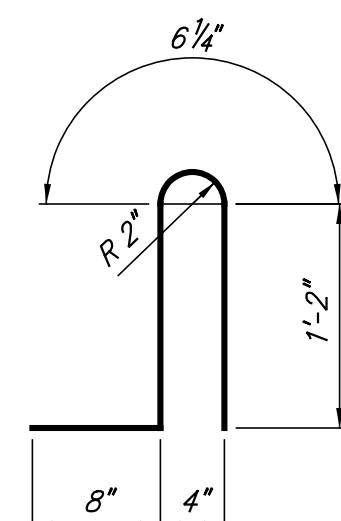
Concrete	
Class "C" in Superstructure	
Pour No. 1	82.0 Cys.
Pour No. 2	113.3 Cys.
Pour No. 3	142.2 Cys.
Pour No. 4	159.6 Cys.
Pour No. 5	105.0 Cys.
Pour No. 6	126.0 Cys.
Pour No. 7	142.6 Cys.
Pour No. 8	196.3 Cys.
Pour No. 9	82.0 Cys.
Pour No. 10	113.4 Cys.
Pour No. 11	142.1 Cys.
Pour No. 12	159.7 Cys.
Pour No. 13	104.9 Cys.
Pour No. 14	126.1 Cys.
Pour No. 15	142.5 Cys.
Pour No. 16	196.4 Cys.
Pour No. 17	304.7 Cys.
Pour No. 18	304.8 Cys.
Total Class "C" in Superstructure	2,743.6 Cys.
Railing, Concrete, FT	2,420.0 Lft.
Miscellaneous	
Surface Seal	113730 Sft.
Modular Joint (Total Movement 5.5")	142 Lft.
Bridge Railing, Pedestrian Fence	2414 Lft.
38-Standard Roadway Drain Type SQ	
With Grate A 192 Lbs. Each	7296 Lbs.
12" Dia. PVC Pipe	1398 Lft.
16" Dia. PVC Pipe	899 Lft.
18" Dia. PVC Pipe	6 Lft.
24" Dia. PVC Pipe	6 Lft.



401a x 3'-0"

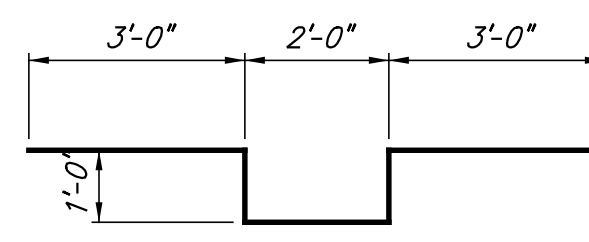


502a x 7'-5"

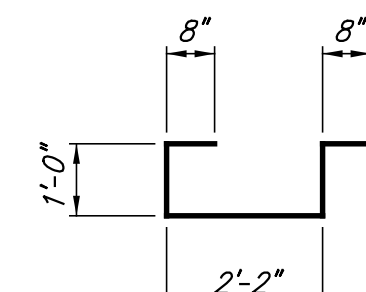


402a x 3'-6"

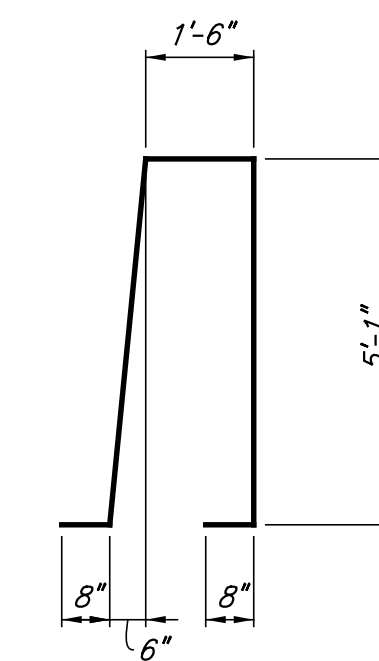
Mark	A	Length
501a	7'-9"	8'-4"
594	3'-5"	4'-0"
602	3'-10"	4'-8"
604a	37'-2"	37'-10"



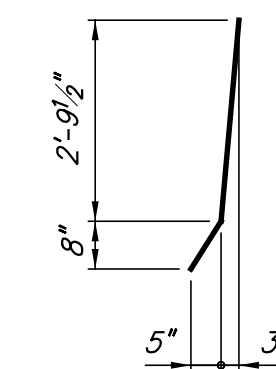
601a x 10'-0"



403a x 5'-6"



603a x 13'-0"

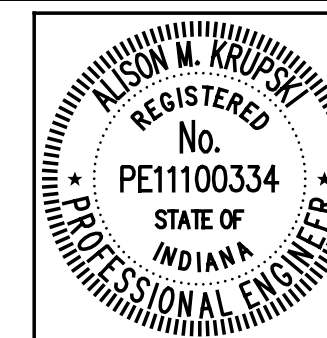


586 x 3'-7"

NOTES :

For reinforcing bar notes, see Standard Drawing E703-BRST-01.

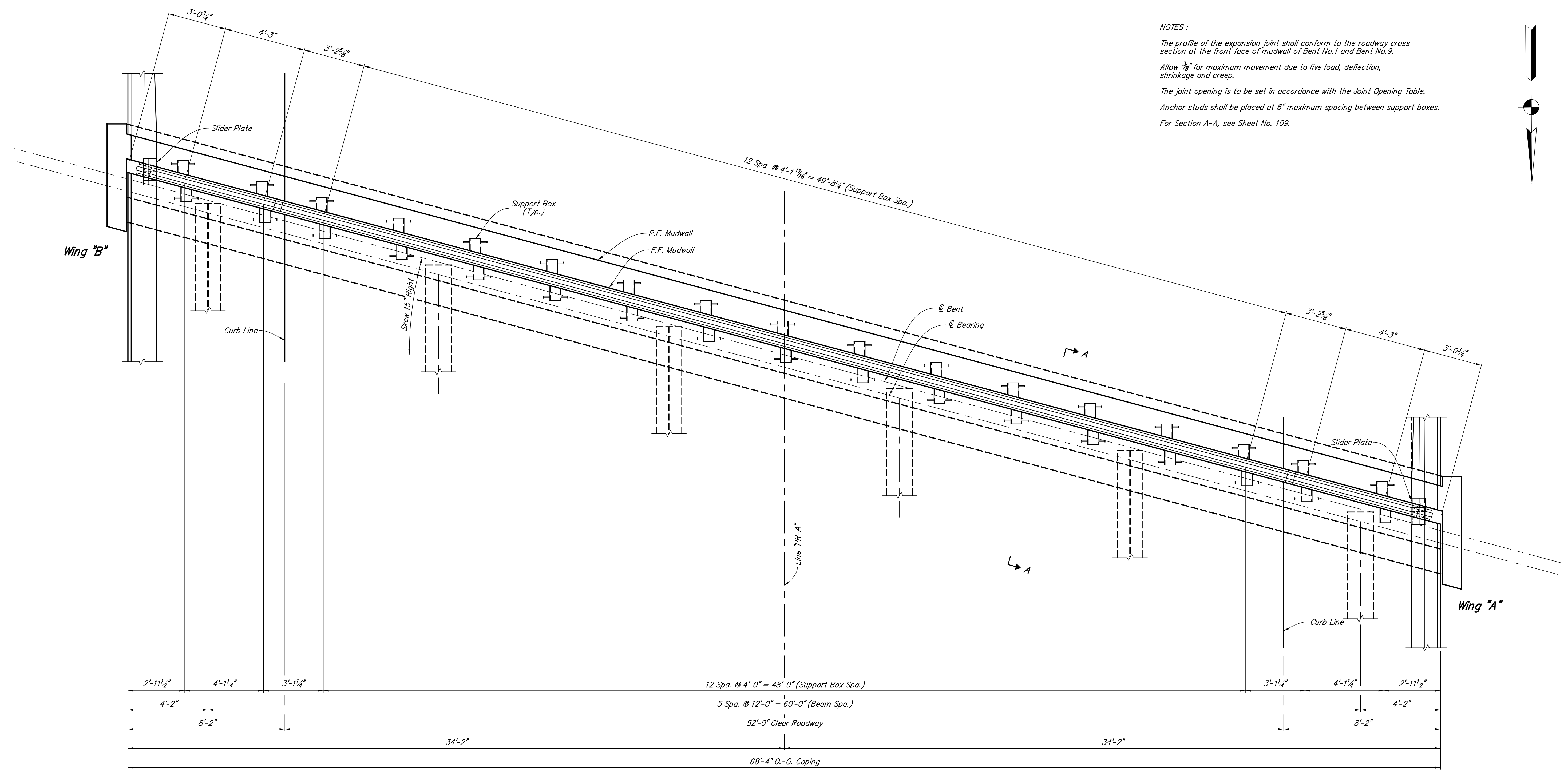
All reinforcing steel to be epoxy coated, unless otherwise noted.



RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	
SUPERSTRUCTURE DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
NONE	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
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NOTES:

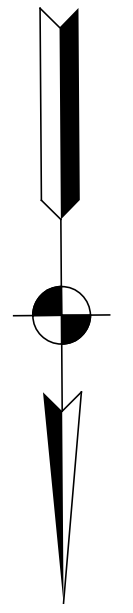
The profile of the expansion joint shall conform to the roadway cross section at the front face of mudwall of Bent No.1 and Bent No.9.

Allow $\frac{3}{8}$ " for maximum movement due to live load, deflection, shrinkage and creep.

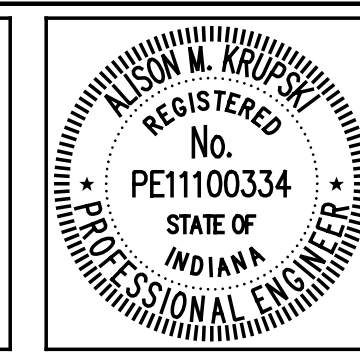
The joint opening is to be set in accordance with the Joint Opening Table.

Anchor studs shall be placed at 6" maximum spacing between support boxes.

For Section A-A, see Sheet No. 109.



PLAN AT BENT NO.1
 Plan At Bent No.9 Same By 180° Rotation

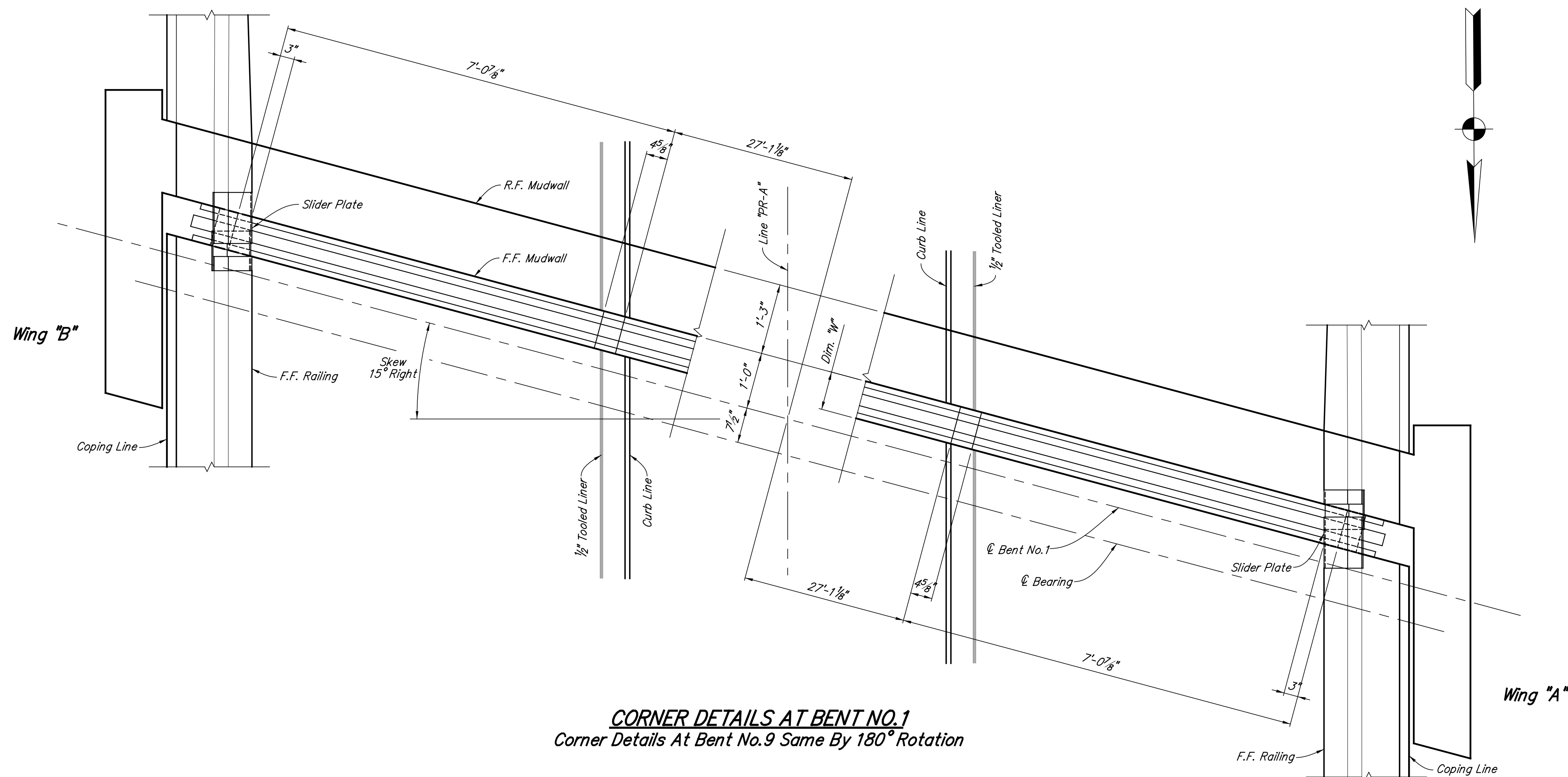


RECOMMENDED FOR APPROVAL	<i>Alison M. Krupski</i>	6/1/2012
DESIGNED:	AMK	DRAWN: DSH
CHECKED:	RMC	CHECKED: AMK

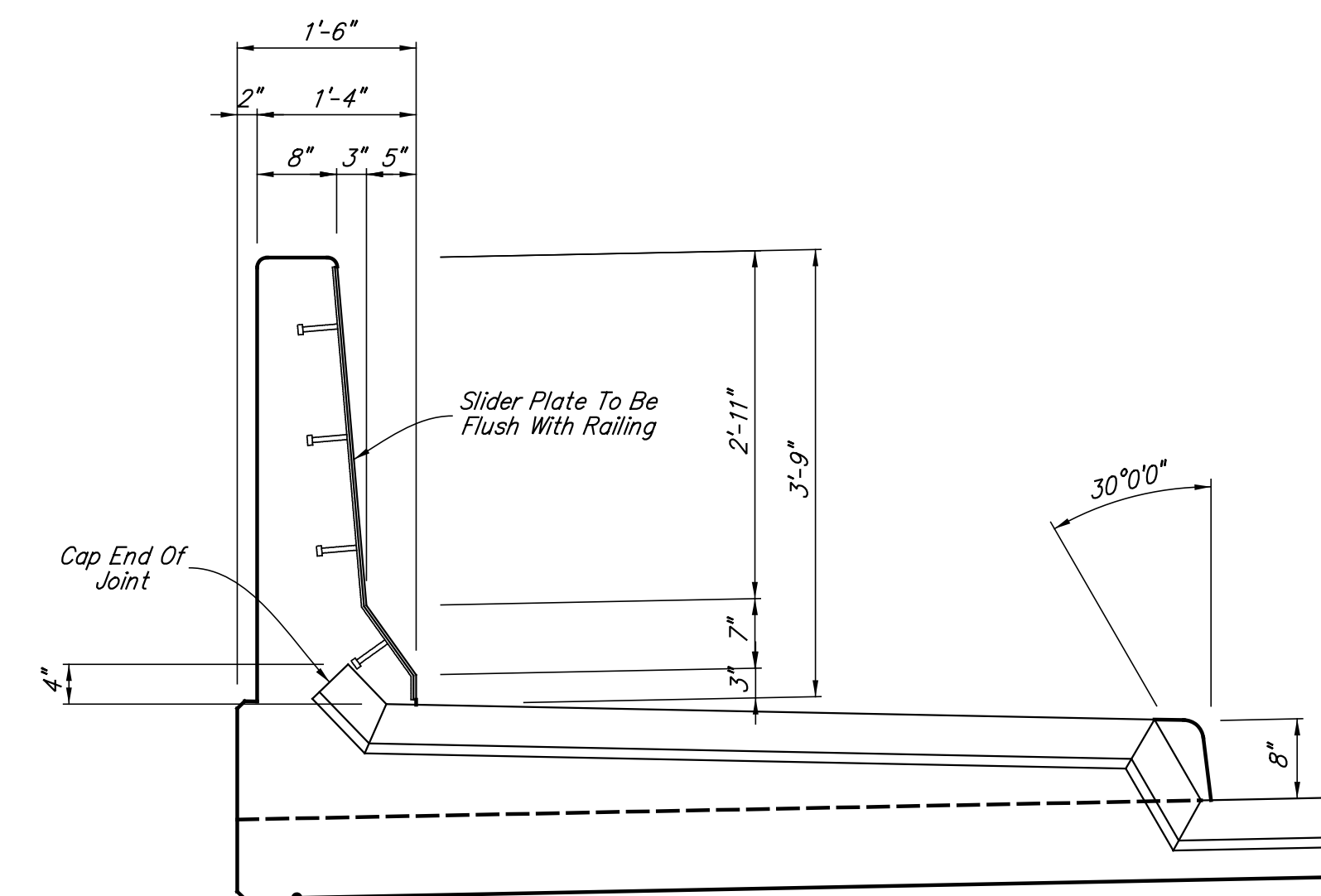
INDIANA
 DEPARTMENT OF TRANSPORTATION

MODULAR EXPANSION JOINT DETAILS

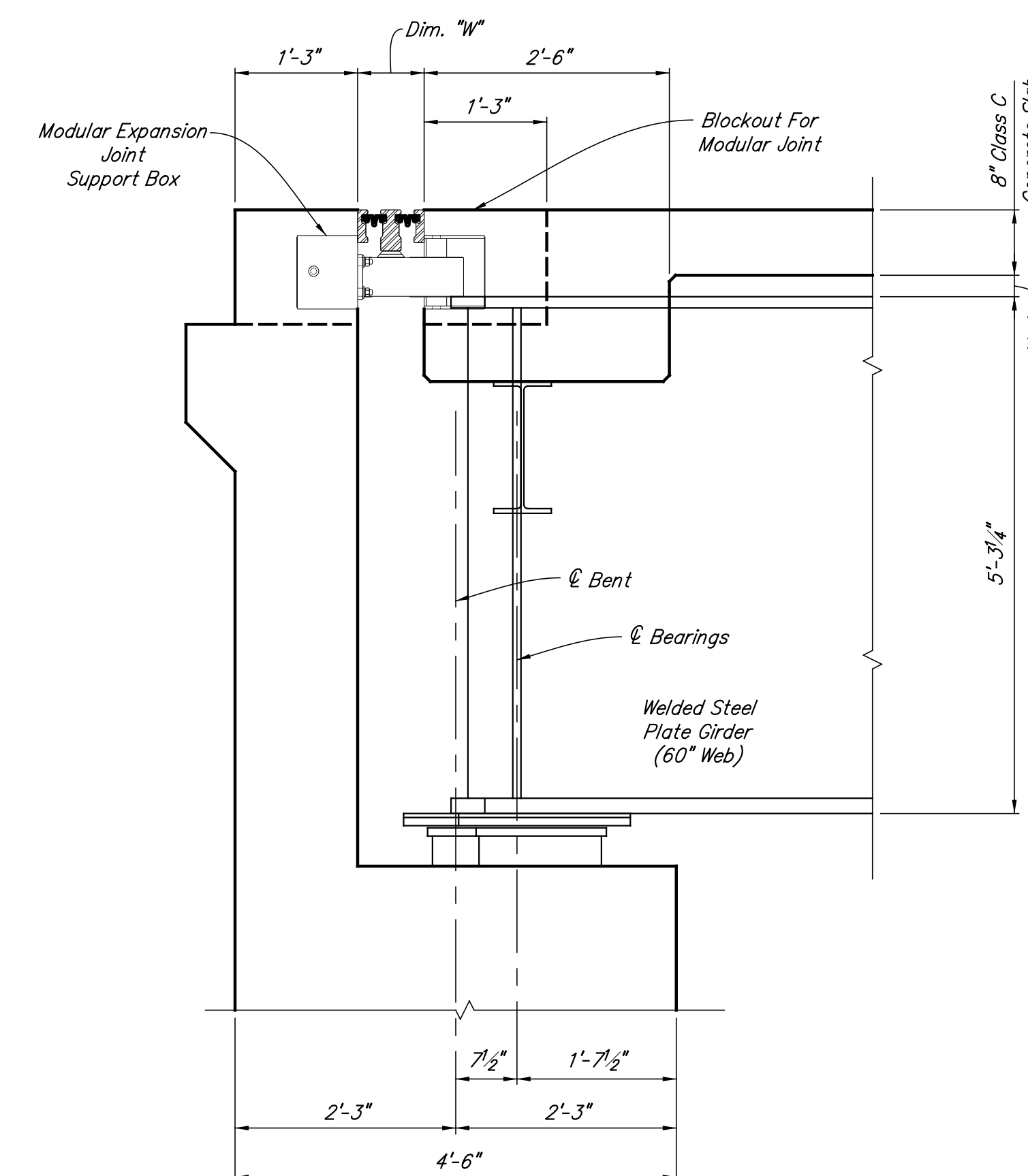
HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
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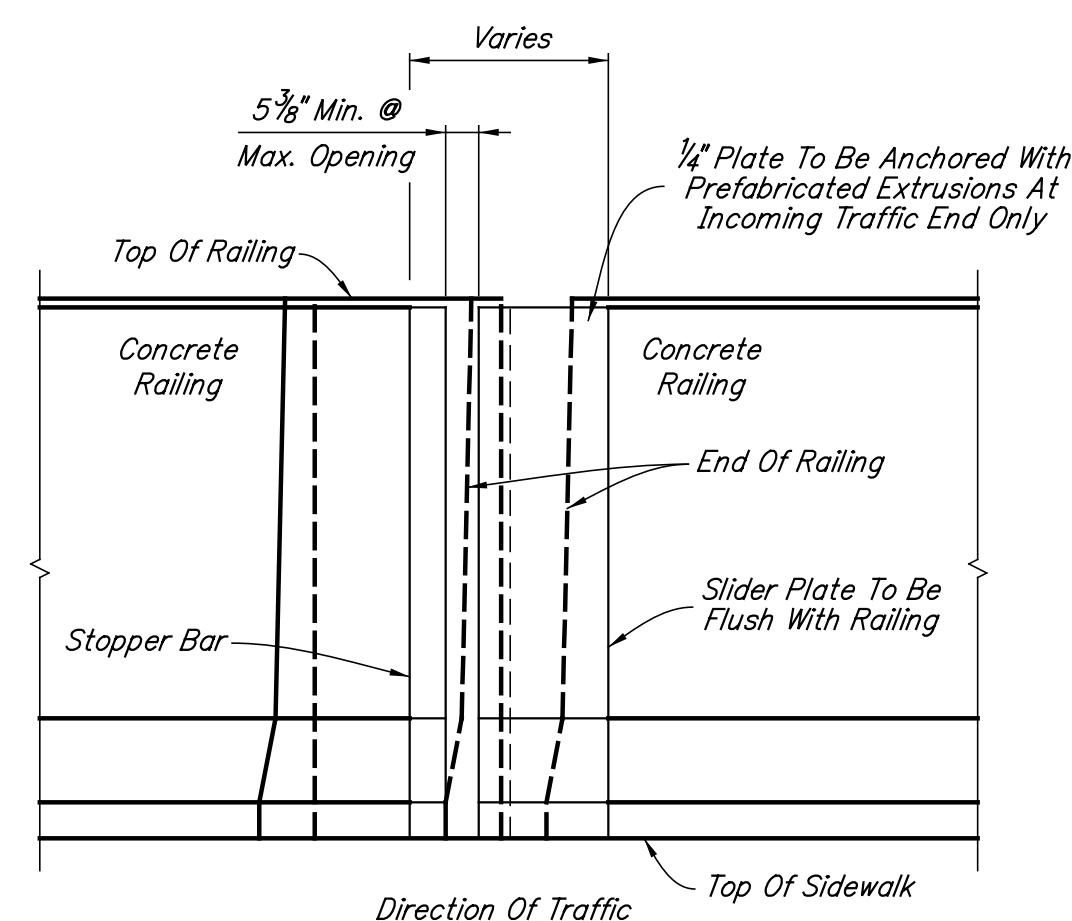
CORNER DETAILS AT BENT NO.1
 Corner Details At Bent No.9 Same By 180° Rotation



TYPICAL JOINT INSTALLATION



SECTION A-A

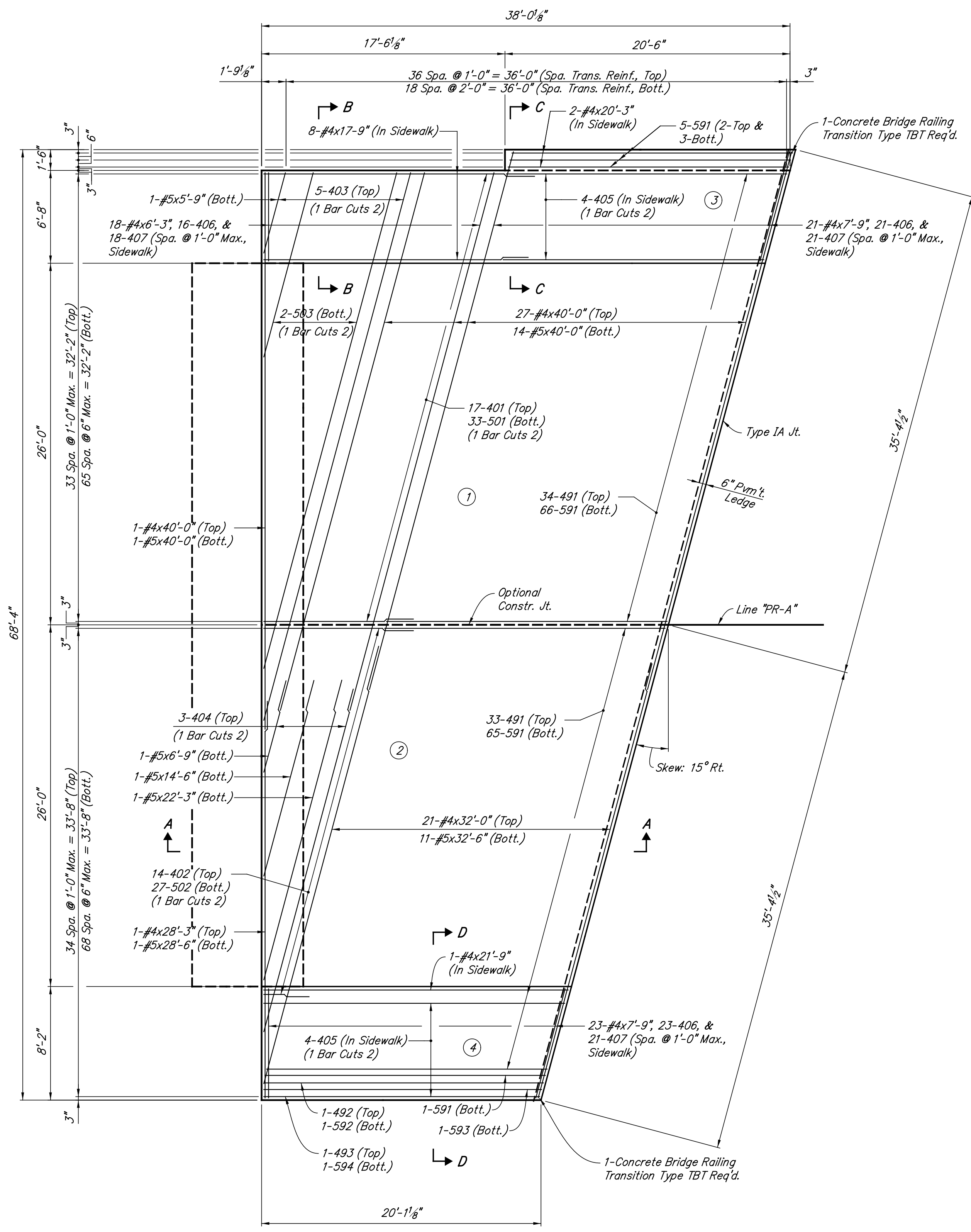
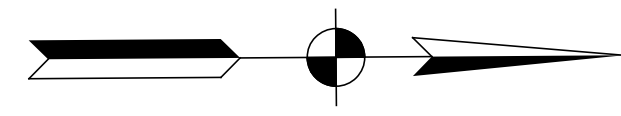


SLIDER PLATE ELEVATION

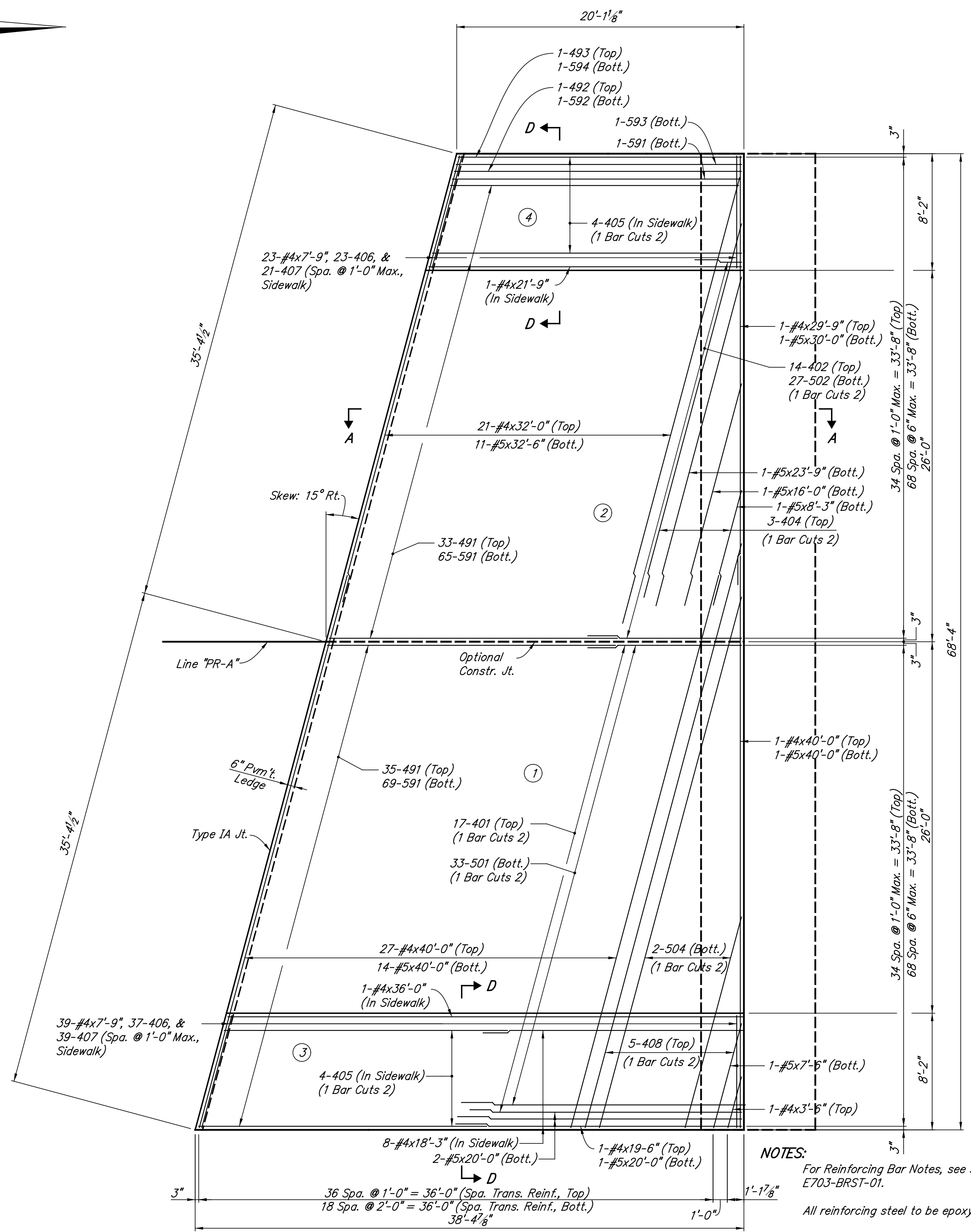
Joint Opening Table							
Temperature	0°	20°	40°	60°	80°	100°	120°
Dimension "W"	10 ³ / ₈ "	9 ⁵ / ₈ "	8 ⁷ / ₈ "	8 ¹ / ₈ "	7 ³ / ₈ "	6 ⁵ / ₈ "	5 ⁷ / ₈ "

NOTES:
 The profile of the expansion joint shall conform to the roadway cross section at the front face of mudwall of Bent No.1 and Bent No.9.
 Allow ³/₈" for maximum movement due to live load, deflection, shrinkage and creep.
 The joint opening is to be set in accordance with the Joint Opening Table.
 Anchor studs shall be placed at 6" maximum spacing between support boxes.
 For location of Section A-A, see Sheet No. 108.

	RECOMMENDED FOR APPROVAL <i>Alison M. Krupski</i> DESIGN ENGINEER DATE 6/1/2012	INDIANA DEPARTMENT OF TRANSPORTATION MODULAR EXPANSION JOINT DETAILS	HORIZONTAL SCALE 3/4" = 1'-0"	BRIDGE FILE 152-45-02730
	DESIGNED: AMK DRAWN: DSH CHECKED: RMC CHECKED: AMK		SURVEY BOOK CONTRACT B-33357	DESIGNATION NO. 0014210



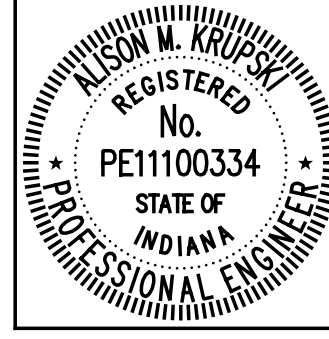
PLAN @ BENT NO. 1



PLAN @ BENT NO. 9

Min. Lap	
#4	1'-7"
#5	2'-0"

- NOTES:**
- For Reinforcing Bar Notes, see Standard Drawing E703-BRS1-01.
 - All reinforcing steel to be epoxy coated.
 - For Sections A-A, B-B and C-C, see Sheet No. 111.
 - For concrete bridge railing transition details, see Standard Drawings E706-TTBT-01 thru -03.
 - Surface seal all exposed surfaces of the approaches.
 - For additional details and Bill Of Materials, see Sheet No. 111.
 - (X) Indicates concrete pour number and sequence of pours.



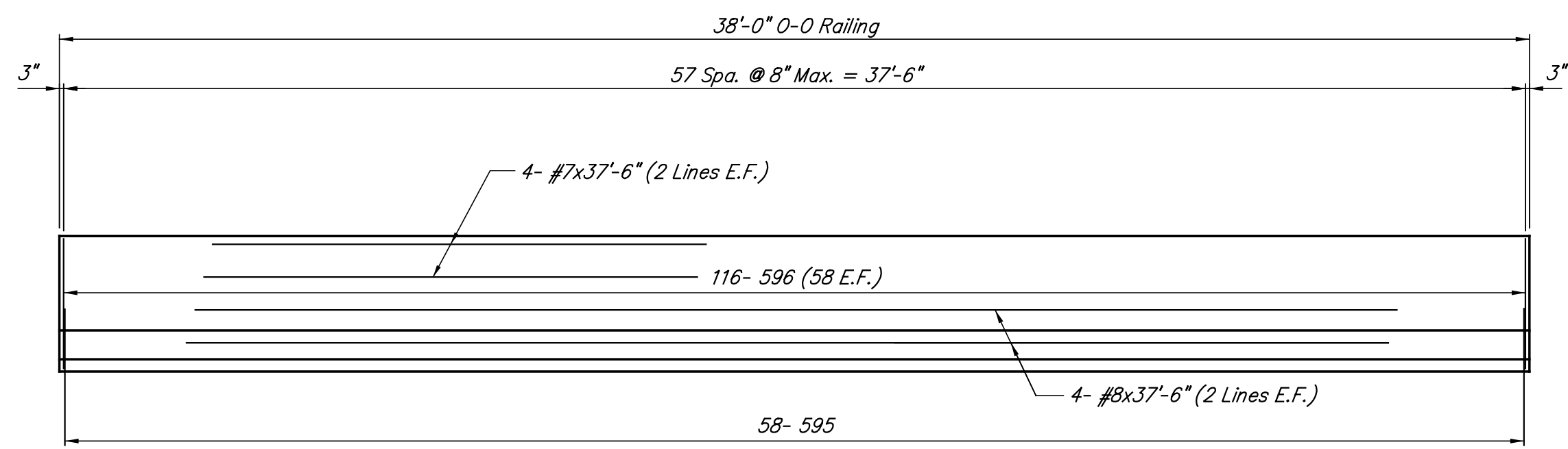
RECOMMENDED FOR APPROVAL **Alison M. Krupski** 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: EWM DRAWN: EWM
 CHECKED: DAD CHECKED: DAD

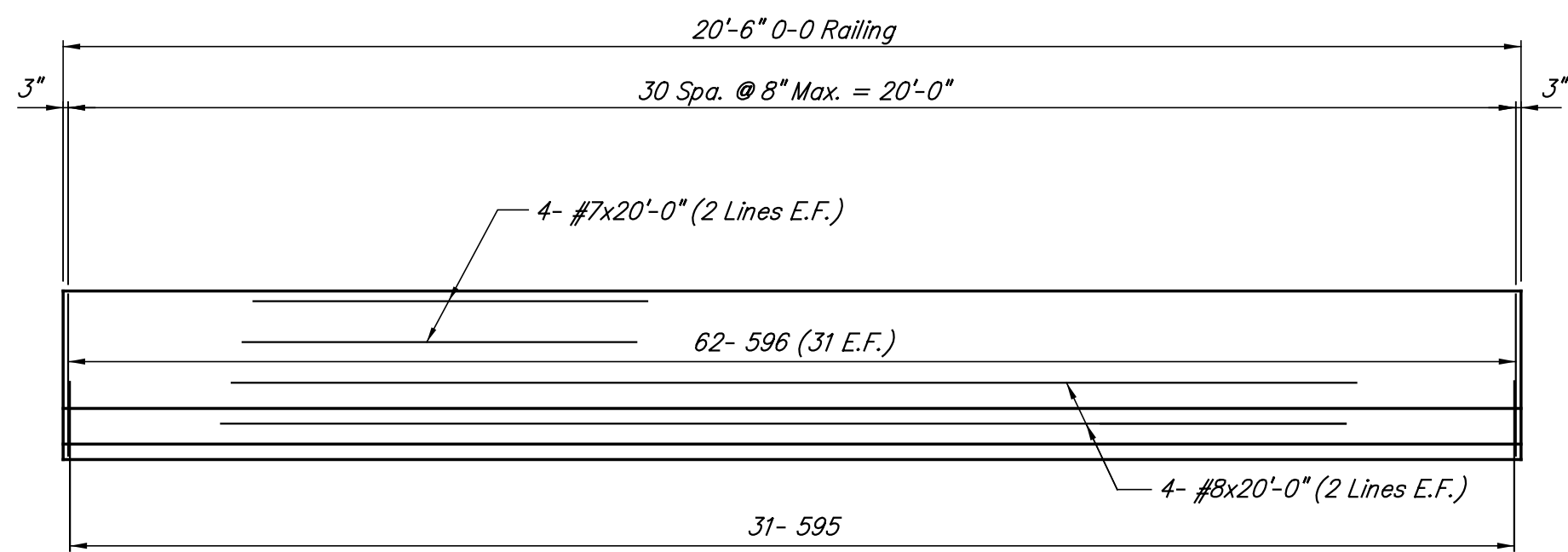
INDIANA
 DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH DETAILS

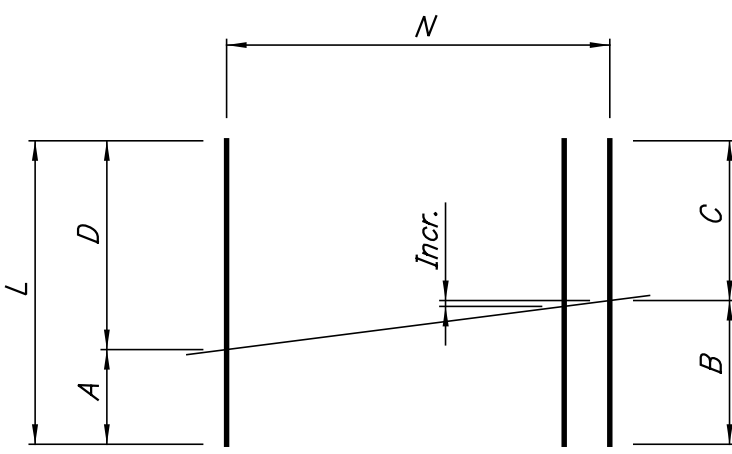
HORIZONTAL SCALE 3/8" = 1'-0"	BRIDGE FILE 152-45-02730
VERTICAL SCALE	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 110 of 149
CONTRACT B-33357	PROJECT NO. N881008



EAST RAILING ELEVATION @ BENT NO. 9 (F.F. Railing)
No Scale



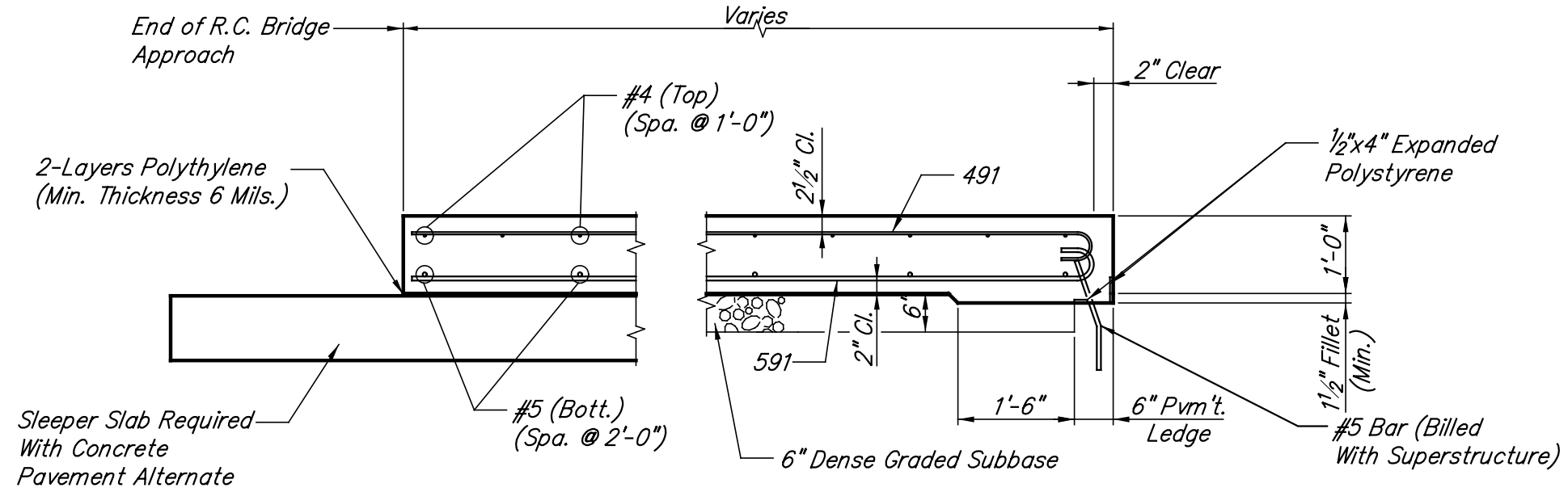
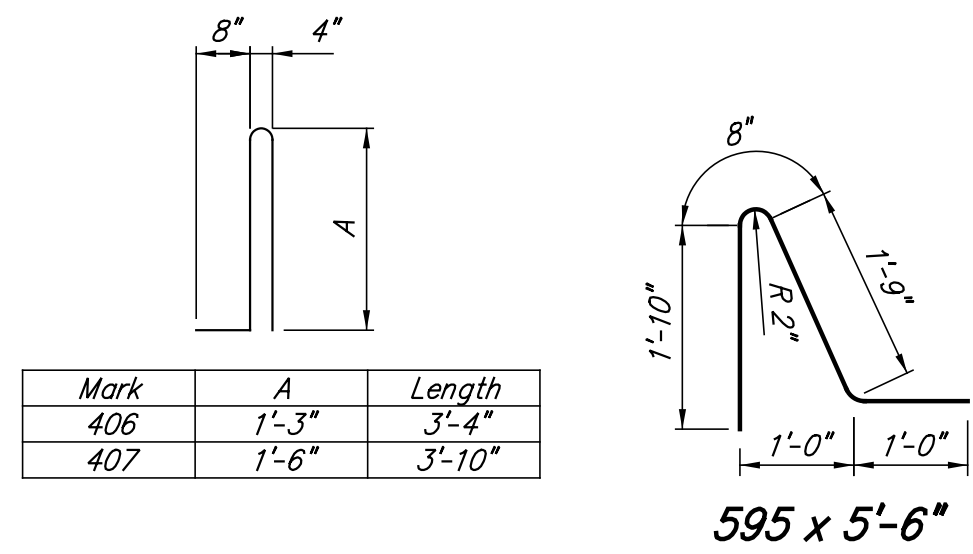
WEST RAILING ELEVATION @ BENT NO. 9 (F.F. Railing)
No Scale



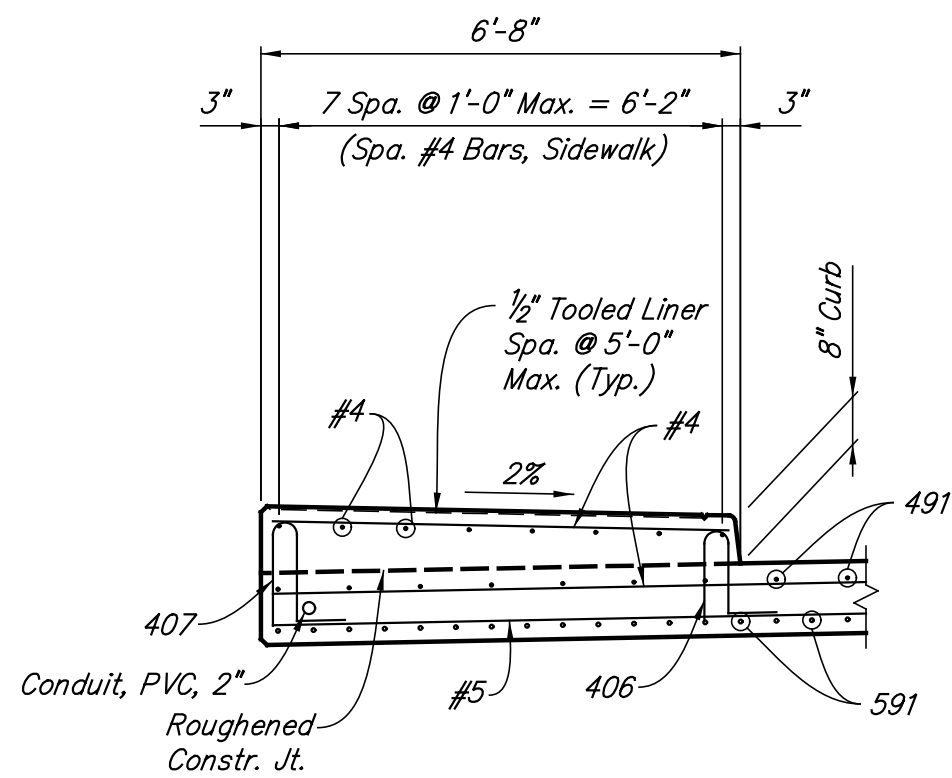
1 Bar Cuts 2

Mark	L	A	B	C	D	Incr.	N
401	29'-8"	10'-6"	14'-8"	15'-0"	19'-2"	3' $\frac{1}{2}$ "	17
402	13'-6"	3'-3"	6'-7"	6'-11"	10'-3"	3' $\frac{1}{8}$ "	14
403	46'-9"	6'-0"	21'-5"	25'-4"	40'-9"	3'-10' $\frac{1}{4}$ "	5
404	34'-8"	7'-8"	15'-5"	19'-3"	27'-0"	3'-10' $\frac{1}{4}$ "	3
405	41'-4"	19'-9"	20'-6"	20'-10"	21'-7"	3' $\frac{1}{2}$ "	4
408	49'-8"	7'-6"	22'-11"	26'-10"	42'-3"	3'-10' $\frac{1}{4}$ "	5
501	30'-8"	10'-11"	15'-3"	15'-5"	19'-9"	3' $\frac{1}{2}$ "	33
502	14'-4"	3'-8"	7'-1"	7'-3"	10'-8"	3' $\frac{1}{2}$ "	27
503	50'-7"	13'-3"	21'-5"	29'-2"	36'-11"	7' $\frac{3}{4}$ "	2
504	53'-8"	15'-3"	22'-11"	30'-9"	38'-5"	7' $\frac{3}{4}$ "	2

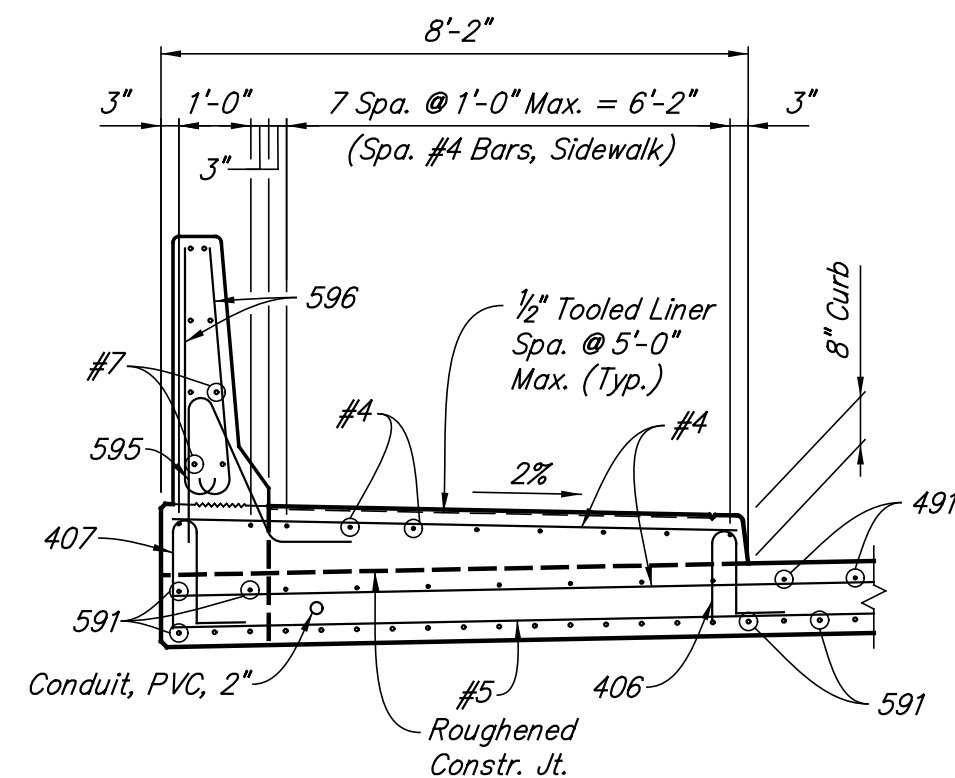
Mark	A	Length
491	20'-2"	20'-8"
492	20'-1"	20'-7"
493	19'-9"	20'-3"
591	20'-2"	20'-9"
592	20'-1"	20'-8"
593	19'-11"	20'-6"
594	19'-9"	20'-4"
596	3'-5"	4'-0"



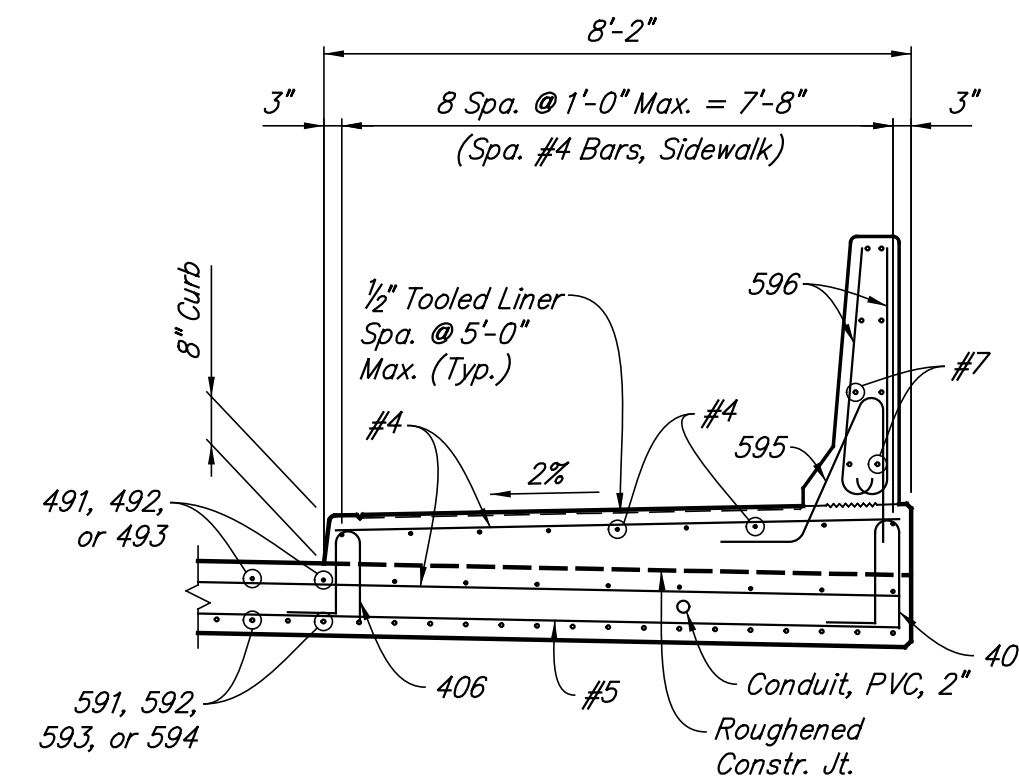
SECTION A-A
Scale: $\frac{1}{2}$ " = 1'-0"



SECTION B-B
Scale: $\frac{3}{8}$ " = 1'-0"



SECTION C-C
Scale: $\frac{3}{8}$ " = 1'-0"



SECTION D-D
Scale: $\frac{3}{8}$ " = 1'-0"

**R.C. BRIDGE APPROACH
BENT NO. 1
BILL OF MATERIALS**

Size And Mark	Epoxy Coated Reinforcing Steel	No. of Bars	Length (Feet)	Weight (Lbs.)
501	#3	33	30'-8"	
502	#2	27	14'-4"	
503	#2	2	50'-7"	
591	#3	137	20'-9"	
592	#1	7	20'-8"	
593	#1	1	20'-6"	
594	#1	1	20'-4"	
#5	#5	15	40'-0"	
#5	#5	11	32'-6"	
#5	#5	1	28'-6"	
#5	#5	1	22'-3"	
#5	#5	1	14'-6"	
#5	#5	1	6'-9"	
#5	#5	1	5'-9"	
Total No. 5				5674
401	#4	17	29'-8"	
402	#4	14	13'-6"	
403	#4	5	46'-9"	
404	#4	3	34'-8"	
405	#4	8	41'-4"	
406	#4	60	3'-4"	
407	#4	60	3'-10"	
491	#4	67	20'-8"	
492	#4	7	20'-7"	
493	#4	7	20'-3"	
#4	#4	28	40'-0"	
#4	#4	21	32'-0"	
#4	#4	1	28'-3"	
#4	#4	1	21'-9"	
#4	#4	2	20'-3"	
#4	#4	8	17'-9"	
#4	#4	44	7'-9"	
#4	#4	18	6'-3"	
Total No. 4				3805
Conc. Bridge Railing Transition, TBT				
Epoxy Coated Reinforcing Steel (2@751)				1502
Total Epoxy Coated Reinforcing Steel				10981
Concrete				
Reinf. Concrete Bridge Approach, 12"				
Pour No. 1				125.5 Sys.
Pour No. 2				93.7 Sys.
Total Reinf. Conc. Bridge Approach, 12 In. Class "C" in Superstructure (Walk)				219.2 Sys.
Pour No. 3				8.4 Cys.
Pour No. 4				5.3 Cys.
Total Class "C" in Superstructure				13.7 Cys.
Conc. Bridge Railing Trans., Type TBT				2 Each
Miscellaneous				
Surface Seal				2360 Sft.
Dense Graded Subbase				36 Cys.

**R.C. BRIDGE APPROACH
BENT NO. 9
BILL OF MATERIALS**

Size And Mark	Epoxy Coated Reinforcing Steel	No. of Bars	Length (Feet)	Weight (Lbs.)
#8	#8	4	37'-6"	
#8	#8	4	20'-0"	
Total No. 8				615
#7	#7	4	37'-6"	
#7	#7	4	20'-0"	
Total No. 7				471
501	#3	33	30'-8"	
502	#2	27	14'-4"	
504	#2	2	53'-8"	
591	#3	135	20'-9"	
592	#1	7	20'-8"	
593	#1	1	20'-6"	
594	#1	1	20'-4"	
595	#5	89	5'-6"	
596	#5	178	4'-0"	
#5	#5	15	40'-0"	
#5	#5	11	32'-6"	
#5	#5	1	30'-0"	
#5	#5	1	23'-9"	
#5	#5	3	20'-0"	
#5	#5	1	16'-0"	
#5	#5	1	8'-3"	
#5	#5	1	7'-6"	
Total No. 5				6961
401	#4	17	29'-8"	
402	#4	14	13'-6"	
404	#4	3	34'-8"	
405	#4	8	41'-4"	
406	#4	60	3'-4"	
407	#4	60	3'-10"	
491	#4	68	20'-8"	
492	#4	7	20'-7"	
493	#4	7	20'-3"	
#4	#4	28	40'-0"	
#4	#4	21	32'-0"	
#4	#4	1	28'-3"	
#4	#4	1	36'-0"	
#4	#4	21	32'-0"	
#4	#4	1	29'-9"	
#4	#4	1	21'-9"	
#4	#4	1	19'-6"	
#4	#4	8	18'-3"	
#4	#4	62	7'-9"	
#4	#4	7	3'-6"	
Total No. 4				3863
Total Epoxy Coated Reinforcing Steel				11910
Concrete				
Reinf. Concrete Bridge Approach, 12"				
Pour No. 1				128.4 Sys.
Pour No. 2				93.7 Sys.
Total Reinf. Conc. Bridge Approach, 12 In. Class "C" in Superstructure (Walk)				222.1 Sys.
Pour No. 3				9.4 Cys.
Pour No. 4				5.3 Cys.
Total Class "C" in Superstructure				14.7 Cys.
Railing, Concrete, FT				59.0 Lft.
Miscellaneous				
Surface Seal				2580 Sft.
Dense Graded Subbase				37 Cys.

NOTES:

- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
- All reinforcing steel to be epoxy coated.
- For location of Sections A-A, B-B, C-C and D-D, see Sheet No. 110.
- For concrete bridge railing transition details, see Standard Drawings E706-TBT-01 thru -03.
- For section thru railing and additional railing details, see Standard Drawings E706-BCBR-02 & 03-04.
- For additional railing details at mudwall, see Standard Drawing E706-CBT-03.
- Surface seal all exposed surfaces of the approaches.
- For additional RCBA terminal joint details, see Standard Drawings E503-BATJ-01.



RECOMMENDED FOR APPROVAL	<i>Alison M. Kruski</i>	6/1/2012
	DESIGN ENGINEER	DATE
DESIGNED:	EWM	DRAWN:
		EWM
CHECKED:	DAD	CHECKED:
		DAD

INDIANA
DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	111 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

BRIDGE FILE	ITEM	STRUCTURE														QUANTITIES															
		CONCRETE				RAILING, CONCRETE, FT.	CONC. BRIDGE RAILING TRANS., TBT	BR. RAILING, PEDESTRIAN FENCE	REINFC. CONC. BRIDGE APPR., 10'	REINFC. CONC. BRIDGE APPR., 12'	DENSE GRADED SUBBASE	REINFC. STEEL TOTAL	EPOXY COATED REINFC. STEEL	STRUCT. STEEL ***	ANCHOR PLATE	PILE		EXPANSION JOINT TYPE M	EXPANSION JOINT TYPE SS	CONC. STR. MEMBERS		ANCHOR BOLT	BARRIER DELINEATOR	FIELD DRILLED HOLES IN CONCRETE	24" DIA. PVC PIPE	SURFACE SEAL #	12" DIA. PVC PIPE	16" DIA. PVC PIPE	CAST IRON, GRATES, BASINS & FITTINGS	18" DIA. PVC PIPE	
		CLASS C IN SUPERSTR.	CLASS A IN SUBSTR.	CLASS B IN FOOTING	CLASS C IN STRUCTURE											EPOXY COATED SHELLS	TEST, DYNAMIC PRODUCTION			CONC. STEEL SHELL ENCASED	STEEL H										SHOE, HP 12x74
CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
SUPERSTRUCTURE		2743.6				2420		2414				1214521	2676348					142						6	113730	1398	899	7296		6	
SUBSTRUCTURE																															
Bent No. 1	4.4	81										14379					13	1560	13	13										1180	
Pier No. 2		158.9	121.5									40184					31	2945	32											1520	
Pier No. 3		158	102.1									33101					26	2470	26											1510	
Pier No. 4		157.3	131.3									54248					1	105	37	3515	38									1310	
Pier No. 5		165.8	97.2									31509					1	95	20	1900	20									1510	
Pier No. 6		161.8	121.5									51043					1	95	37	2635	32									1310	
Pier No. 7		188.1	111.8									39435					1	100	32	2720	32									1510	
Pier No. 8		177.4	131.3									45628					1	100	37	3330	38									1540	
Bent No. 9	4.4	80.6										14657					1	115	13	1365	14	14								1170	
R.C. BRIDGE APPROACHES																															
Bent No. 1	13.7											219.2	36																	2360	
Bent No. 9	14.7											222.1	37																	2580	
TOTALS		2780.8	1328.9	816.7		2479		2414				441.3	73				295148	1266448	2676348					6	131230	1398	899	7296		6	

PAVEMENT QUANTITIES AND APPROACH TABLE																		
LT/RT	LOCATION LINE	STATION	DESCRIPTION	WIDTH FT.	RADI FT.	GRADE %	LENGTH FT.	DISTANCE BEYOND R/W FT.	EXCAVATION (CYS.)		HMA SURFACE	HMA INTERMEDIATE	HMA BASE	ASPHALT FOR TACK COAT	ASPHALT FOR PRIME COAT	CONCRETE CURB	CONCRETE SIDEWALK	CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS, 6"
									CUT	FILL	9.5 mm, MAINLINE ? LBS./SYD.	19.0 mm, MAINLINE ? LBS./SYD.	25.0 mm, MAINLINE ? LBS./SYD.	TONS	TONS	SYS.	SYS.	SYS.

PAVED SIDE DITCH, RIPRAP DITCH AND SODDING SUMMARY													
LT. OR RT.	STATION TO STATION	PAVED SIDE DITCH (LIN. FT.)				SODDING (SQ. YDS.)				RIPRAP			
		TYPE	PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	FOR PSD	FOR DITCHES	SHOULDERS	OTHER	TOTAL SOD

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	DESCRIPTION		LENGTH	SKEW	FLOW LINE			CONC. CL. A IN STRS.	STRUCTURE BACKFILL	METHOD OF BACKFILL	THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	REINFC. STEEL	REMARKS
						TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE			COVER	UP STREAM	DOWN STREAM				STEEL	ALUM.					
						INCHES	FT.			FT.	ELEV.	ELEV.				CU. YDS.	CU. YDS.					

TEMPORARY EROSION AND SEDIMENT CONTROL SUMMARY													
LT. OR RT.	STATION TO STATION	PERIMETER PROTECTION LIN. FT.	DRAINAGE BARRIER LIN. FT.	INTERCEPTOR DITCH LIN. FT.	SLOPE DRAIN LIN. FT.	STRAW BALE DITCH CHK LIN. FT.	RIPRAP DITCH CHK LIN. FT.	SEDIMENT TRAP CU. YDS.	SEDIMENT BASIN CU. YDS.	CULVERT PIPE PROTECTION EACH	DROP INLET PROTECTION EACH	CURB INLET PROTECTION EACH	TOTALS

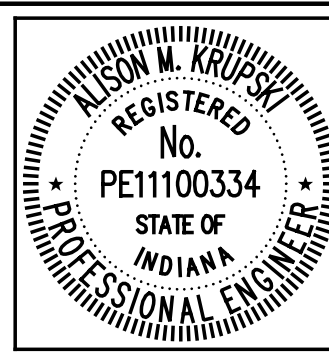
RESET MAILBOX TABLE				
LOCATION	LEFT	RIGHT	SINGLE	DOUBLE

GUARDRAIL SUMMARY TABLE														
FROM STATION	TO STATION	R. OR L.T.	W-BEAM GUARDRAIL LENGTH				GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION	GUARDRAIL END TREATMENT	CURVED W-BEAM GUARDRAIL SYSTEM				REMARKS
			STANDARD POST AT 6'-3" S.P.A.	STANDARD POST AT 5'-0" S.P.A.	STANDARD POST AT 3'-0" S.P.A.	NESTED GUARDRAIL				TERMINAL SYSTEM	CONNECTOR SYSTEM	GUARDRAIL REMOVE	GUARDRAIL RESET	
			LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.								

REVISIONS	
DATE	ITEM

NOTES :

- Weight of Spirals includes weight of 1/2 extra turns top and bottom.
- Spacers and 1/2 turns at laps included in cost of Spiral.
- * Estimated Quantity, to be paid for as "LSUM".
- ** If the Contractor elects to use metal pipe, the thickness shall be as shown in the Approach Quantity Table.
- *** The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
- For Test Bar Samples, see Bridge Standard 703-BRST-01.



RECOMMENDED FOR APPROVAL: *Alison M. Krupski* 6/1/2012 DATE
DESIGNED: DSH DRAWN: DSH
CHECKED: AMK CHECKED: AMK

INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE NONE	BRIDGE FILE 152-45-02730
BRIDGE SUMMARY	VERTICAL SCALE NONE	DESIGNATION NO. 0014210
	SURVEY BOOK	SHEETS 112 of 149
	CONTRACT B-33357	PROJECT NO. N881008

GUARDRAIL SUMMARY TABLE

LOCATION	GUARDRAIL LENGTH															CURVED W-BEAM GUARDRAIL SYSTEM				REMARKS					
	STATION	LEFT	RIGHT	MEDIAN	W-BEAM AT 6'-3" SPA.	W-BEAM AT 3'-1.5" SPA.	W-BEAM AT 1'-6.75" SPA.	THRIE-BEAM AT 6'-3" SPA.	THRIE-BEAM AT 3'-1.5" SPA.	GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE T6B	GUARDRAIL TRANSITION TYPE TTT	GUARDRAIL TRANSITION TYPE WGT	GUARDRAIL END TREATMENT OS	CURVED TERMINAL END	IMPACT ATTENUATOR CR1, W1, TL-2	IMPACT ATTENUATOR R1-W1, TL-2	TERMINAL SYSTEM			CONNECTOR SYSTEM		GUARDRAIL REMOVE	GUARDRAIL RESET	
																		ft.	ft.		ft.	ft.			ft.
123+32.30 "PR-A" To 124+70.97 "PR-A"		X																						139.00	
123+36.87 "PR-A" To 124+70.61 "PR-A"		X																						134.00	
126+44.88 "PR-A" To 130+32.38 "PR-A"		X						306.25				1	1	1											
129+77.37 "PR-A" To 130+14.87 "PR-A"		X			12.50							1		1											
142+72.85 "PR-A" To 149+26.39 "PR-A"		X																						654.00	
146+36.62 "PR-A" To 147+72.08 "PR-A"		X																						136.00	
149+78.00 "PR-A"		X															1								
TOTALS =					12.50			306.25				1	1	1	2		1							1,063.00	

PAVED SIDE DITCH & SODDING SUMMARY TABLE

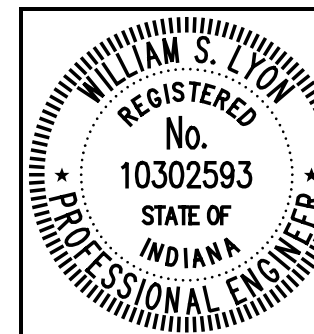
FROM STATION	TO STATION	LOCATION		PAVED SIDE DITCH										SODDING					SEE SHEET NO.									
		LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT-OFF WALLS (8 FT EQUIV LENGTH EA)	LUGS (8 FT EQUIV LENGTH EA)	TOTAL EQUIVALENT PAY LENGTHS										FOR PAVED SIDE DITCH		FOR DITCHES	FOR MEDIAN	FOR SHOULDER	FOR LAWN					
								TYPE																				
								A	B																			
Line	"PR-A"				FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	SYS	SYS	SYS	SYS	SYS		
129+95	130+33	X			48	2		64																				
130+48	130+65	X			64	2		80																				

MONUMENT TABLE - PCCP OPTION

LOCATION	TYPE				SECTION CORNER
	A	B	C	D	
Line "PR-A"					
117+97.77				X	
130+00.00				X	
134+00.00				X	
141+00.00				X	
152+07.11				X	

MONUMENT TABLE - HMA OPTION

LOCATION	TYPE				SECTION CORNER
	A	B	C	D	
Line "PR-A"					
117+97.77		X			
130+00.00		X			
134+00.00				X	
141+00.00				X	
152+07.11		X			



RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: RJC
CHECKED: WSL CHECKED: WSL

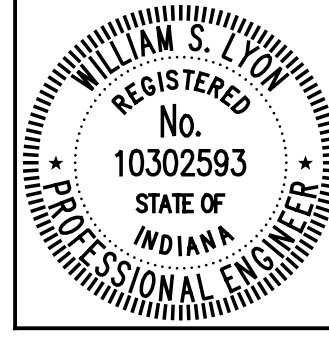
INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	152-45-02730
VERTICAL SCALE	DESIGNATION NO.
	0014210
SURVEY BOOK	SHEETS
	113 of 149
CONTRACT	PROJECT NO.
B-33357	N881008

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE FT in.	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH ft.	SKEW	COVER ft.	FLOW LINE		SERVICE LIFE YR.	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL CYS.	TYPE	FLOWABLE BACKFILL CYS.	TYPE	GEOTEXTILES SYS.	RIPRAP TON	TYPE	CONCRETE CLASS A FOR STRUCTURES CYS.	VIDEO INSPECTION LFT.	PIPE END SECTION EACH	GRATED BOX END SECTION		SAFETY METAL END SECTION		CONNECT TO STR. NO.	REMARKS				
	STATION	LEFT	RIGHT	CROSS							UP STREAM ELEV.	DOWN STREAM ELEV.															TYPE	SLOPE	EACH	TYPE			SLOPE	EACH		
																																			OFFSET	SIZE
Line "PR-A"																																				
100	118+30.0		x		26.5							75	N/A	6.5																			Connect to Existing 12" Storm Pipe, Clean & Flush			
101																																		Intentionally Omitted		
102	118+60.0	x				12	2		100	1.8	589.28	588.78	75	N/A	6.5	1	27.7																	100		
103	119+30.0	x				12	2		59	2.7	589.79	589.50	75	N/A	6.5	1	22.9																		104	
104	119+30.0		x			12	2		7	2.4	589.50	589.46	75	N/A	6.5	1	2.2																		105	
105	119+30.0		x		36.0	15	2		96	2.7	588.83	588.39	75	N/A	6.5	1	40.3																		100	
106	120+50.0	x				12	2		59	2.7	591.13	590.83	75	N/A	6.5	1	23.0																		107	
107	120+50.0		x			12	2		7	2.4	590.83	590.78	75	N/A	6.5	1	2.3																		108	
108	120+50.0		x		36.0	12	2		116	3.1	590.78	589.08	75	N/A	6.5	1	45.9																		105	
109	122+50.0	x				12	2		59	2.7	593.35	593.10	75	N/A	6.5	1	22.7																			110
110	122+50.0		x			12	2		22	1.0	593.10	593.05	75	N/A	6.5	1	4.8			6.4	2.3	R			1											
111	124+50.0	x				12	2		51	1.8	595.74	595.48	75	N/A	6.5	1	13.0																			112
112	124+50.0		x			15	2		20	1.0	595.23	595.13	75	N/A	6.5	1	6.3			13.5	6.1	R			1											
112A	126+94.9			x		48	1		119	3°5'54"	591.00	590.36	75	N/A	6.5	1	95.0			40.0	24.0	R	1.4												101	Cover for Structural Backfill is 1.51ft
113	127+50.0	x				12	2		47	1.8	604.97	604.74	75	N/A	6.5	1	5.9																			114
114	127+50.0		x			12	2		22	1.0	604.74	604.63	75	N/A	6.5	1	5.9			57.4	30.3	R			1											
115	145+00.0	x				12	2		15	1.8	608.20	608.14	75	N/A	6.5	1	0.0																			116
116	145+00.0	x			7.0	12	2		196	1.9	602.91	599.00	75	N/A	6.5	1	56.5																			119
117	145+00.0		x			12	2		29	2.7	608.20	608.06	75	N/A	6.5	1	0.0																			116
118	147+00.0	x				12	2		15	1.8	598.70	598.63	75	N/A	6.5	1	1.8																			119
119	147+00.0	x			7.0	12	2		196	1.4	594.66	590.75	75	N/A	6.5	1	91.9																			122
120	147+00.0		x			12	2		31	2.7	598.64	598.51	75	N/A	6.5	1	9.1																			119
120A	149+00.0	x			37.0	12	2		168	2.6	587.26	586.60	75	N/A	6.5	1	61.9																			123A
121	149+00.0	x				12	2		15	1.8	589.99	589.92	75	N/A	6.5	1	3.7																			122
122	149+00.0	x			7.0	18	2		166	1.4	587.68	586.83	75	N/A	6.5	1	70.3																			125
123	149+00.0		x			12	2		39	2.7	589.78	589.58	75	N/A	6.5	1	15.9																			122
123A	150+70.0	x			37.0	12	2		10	1.8	586.60	586.57	75	N/A	6.5	1	2.2																			124
124	150+70.0	x				12	2		15	1.8	586.57	586.50	75	N/A	6.5	1	3.7																			125
125	150+70.0	x			7.0	18	2		51	3.5	585.63	585.37	75	N/A	6.5	1	29.0																			128
126	150+70.0		x			12	2		41	1.8	586.33	586.13	75	N/A	6.5	1	11.3																			125
127	151+25.0	x				12	2		15	1.8	586.36	586.29	75	N/A	6.5	1	3.7																			128



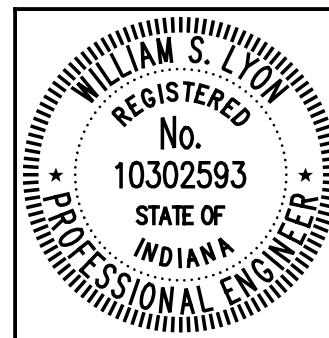
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: NRM DRAWN: NRM
 CHECKED: WSL CHECKED: WSL

INDIANA
 DEPARTMENT OF TRANSPORTATION
STRUCTURE DATA TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 115 of 149
CONTRACT B-33357	PROJECT NO. N881008

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE FT in.	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH ft.	SKEW	COVER ft.	FLOW LINE		SERVICE LIFE YR.	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL CYS.	TYPE	FLOWABLE BACKFILL CYS.	TYPE	GEOTEXTILES SYS.	RIPRAP TON	TYPE	CONCRETE CLASS A FOR STRUCTURES CYS.	VIDEO INSPECTION LFT.	PIPE END SECTION EACH	GRADED BOX END SECTION		SAFETY METAL END SECTION		CONNECT TO STR. NO.	REMARKS		
	STATION	LEFT	RIGHT	CROSS							UP STREAM ELEV.	DOWN STREAM ELEV.															TYPE	SLOPE	TYPE	SLOPE				
																																	TYPE	SLOPE
Line "PR-A" Continued																																		
128	151+25.0	x			7.0	18	2	Manhole C-4	41	3.6	585.37	585.12	75	N/A	6.5	1	24.4															131		
129	151+25.0		x			12	2	Catch Basin B-15	41	2.7	586.12	585.92	75	N/A	6.5	1	16.4																128	
130	151+70.0	x				12	2	Catch Basin B-15	19	2.7	586.38	586.28	75	N/A	6.5	1	7.4																131	
131	151+70.0	x			7.0	18	2	Manhole C-4	55	2.0	582.12	581.57	75	N/A	6.5	1	38.8															202	Core Drill to Existing Manhole	
132	151+70.0		x			12	2	Catch Basin B-15	48	2.7	586.10	585.86	75	N/A	6.5	1	19.9																131	
133								Intentionally Omitted																										
200	117+85.6		x					Existing Manhole																									Adjust Casting To Grade, Clean & Flush	
201	118+71.2	x						Existing Inlet																									To Remain In Place and Plug Pipe From East	
202	151+94.1		x					Existing Combination Manhole																									Adjust Casting To Grade, Clean & Flush	
203								Intentionally Omitted																										
Line "AC-1"																																		
300	13+00.0			x		48	1	Pipe	30	19°9'52"	1.0	590.86	590.78	75	N/A	6.5	1	22.2			24.0	13.0	R	2.8								6 Inch Sump		



RECOMMENDED FOR APPROVAL: *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE
 DESIGNED: NRM DRAWN: NRM
 CHECKED: WSL CHECKED: WSL

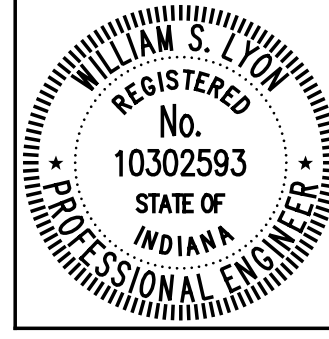
INDIANA
 DEPARTMENT OF TRANSPORTATION
STRUCTURE DATA TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE 152-45-02730
VERTICAL SCALE N/A	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 116 of 149
CONTRACT B-33357	PROJECT NO. N881008

		STRUCTURE NUMBER																												
		100	101	102	103	104	105	106	107	108	109	110	111	112	112A	113	114	115	116	117	118	119	120	120A	121	122	123	123A		
PIPE TYPE/ SHAPE				2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	
SMOOTH PIPE SIZE				12-in	12-in	12-in	15-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	15-in	48-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	12-in	
CORRUGATED PIPE SIZE				--	--	--	--	--	--	--	--	--	--	--	48-in	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RCP / RCHEP (S)	CLASS			II	II	II	II	II	II	II	II	II	II	II	II	II	IV	II	II	II	II	II	II	II	II	II	II	II	II	
	D _{0.3} RATING			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500	1000	1250	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK																
CORRUGATED PE PIPE, TYPE S (S) *				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK																
RIBBED PE PIPE (S) *																														
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR				OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00							OK/26.00									
PROFILE WALL PVC PIPE (S)				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK							OK									
SMOOTH WALL PVC PIPE (S) *				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK							OK									
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)				OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			OK		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																												
	ZINC COATED (C)	CORR. PROFILE THICKNESS														2-2/3"x1/2"														
	ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS														0.168"(LS)														
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS														2-2/3"x1/2"														
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS														0.138"(LS)														
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS														2-2/3"x1/2"														
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS														0.109"(LS)														
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																												
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																												
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS															2-2/3"x1/2"													
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS															0.105"(LS)													
	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE THICKNESS																												
	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																												
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS																												
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																													

		STRUCTURE NUMBER																												
		124	125	126	127	128	129	130	131	132	133	200	201	202	203	300														
PIPE TYPE/ SHAPE		2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR	2 / CIR					1 / CIR														
SMOOTH PIPE SIZE		12-in	18-in	12-in	12-in	18-in	12-in	12-in	18-in	12-in						48-in														
CORRUGATED PIPE SIZE				--	--	--	--	--	--	--						48-in														
RCP / RCHEP (S)	CLASS	II	II	II	II	II	II	II	II	II						II														
	D _{0.3} RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000						1000														
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK						OK														
CORRUGATED PE PIPE, TYPE S (S) *				OK	OK	OK	OK	OK	OK	OK						OK														
RIBBED PE PIPE (S) *				OK	OK	OK	OK	OK	OK	OK						OK														
SMOOTH WALL PE PIPE (S)*/ MAXIMUM DR			OK/26.00			OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00	OK/26.00					OK/26.00														
PROFILE WALL PVC PIPE (S)			OK			OK	OK	OK	OK	OK						OK														
SMOOTH WALL PVC PIPE (S) *			OK			OK	OK	OK	OK	OK						OK														
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK	OK	OK	OK	OK	OK	OK	OK						OK														
CORRUGATED STEEL PIPE/ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																												
	ZINC COATED (C)	CORR. PROFILE THICKNESS															2-2/3"x1/2"													
	ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS															0.168"(LS)													
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS															2-2/3"x1/2"													
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS															0.138"(LS)													
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS															2-2/3"x1/2"													
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS															0.109"(LS)													
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																												
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																												
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																2-2/3"x1/2"												
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																0.105"(LS)												
	STR. PLATE ALUMINUM ALLOY PIPE (C)	CORR. PROFILE THICKNESS																												
	STR. PLATE ALUMINUM ALLOY PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																												
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS																												
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS																													

- LEGEND**
- RCP - REINFORCED CONCRETE PIPE
 - RCHEP - REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
 - PE - POLYETHYLENE
 - DR - DIMENSION RATIO
 - PVC - POLYVINYL CHLORIDE
 - BIT - BITUMINOUS
 - CORR - CORRUGATION
 - BPI - BITUMINOUS PAVED INVERT
 - ALUM - ALUMINUM
 - STR - STRUCTURAL
 - CFP - CONCRETE FIELD PAVING
 - CIR - CIRCULAR PIPE
 - DEF - DEFORMED PIPE
 - (S) - SMOOTH PIPE MATERIAL
 - (C) - CORRUGATED PIPE MATERIAL
 - OK - ACCEPTABLE FOR USE
 - (LS) - LOCK SEAM PIPE REQUIRED
 - * - REFER TO STANDARD DRAWING 715-PHCL-18 OR 19 FOR NOMINAL DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER
 - ** - TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.



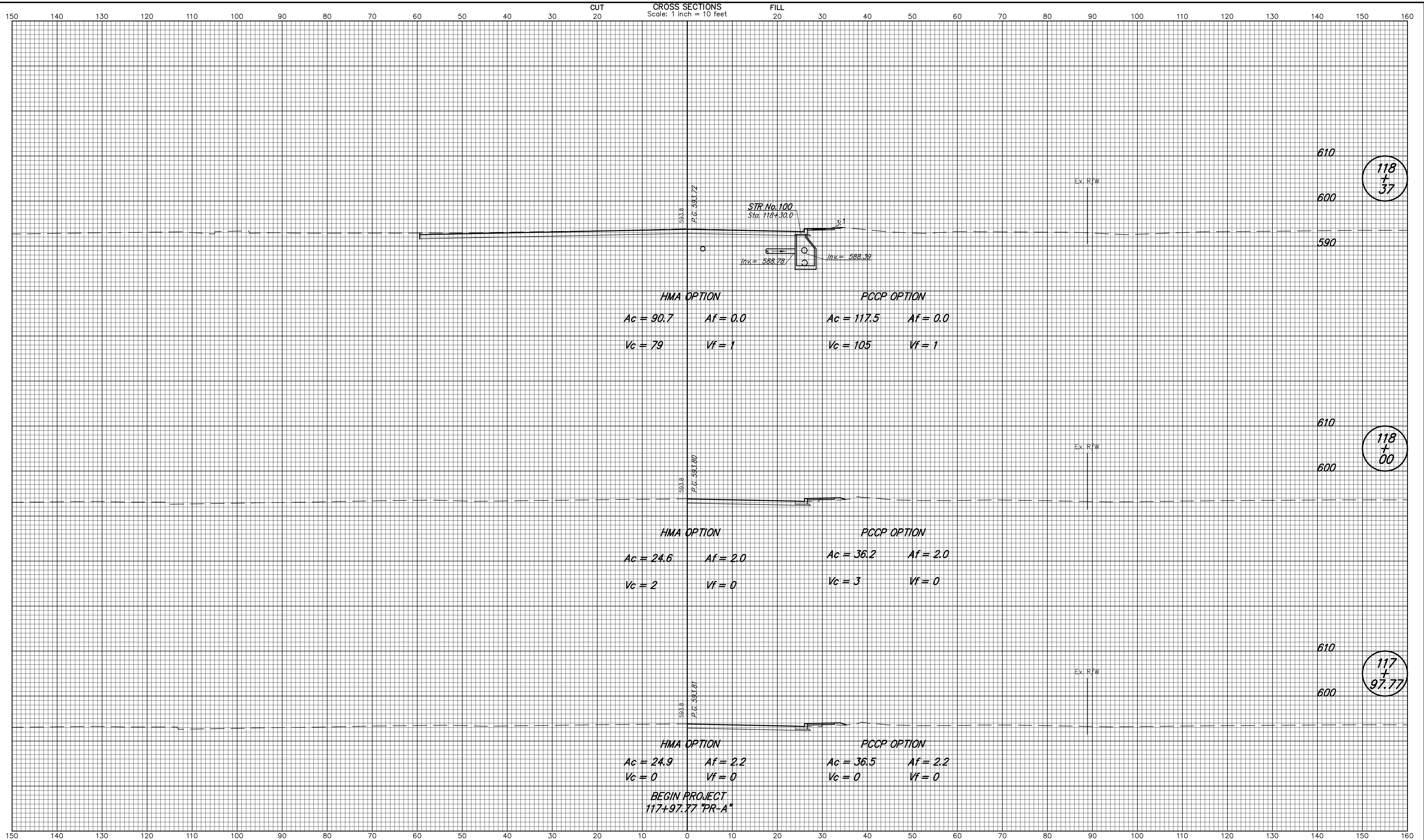
RECOMMENDED FOR APPROVAL *William S. Lyon* 6/1/2012
 DESIGN ENGINEER DATE

DESIGNED: NRM DRAWN: NRM
 CHECKED: WSL CHECKED: WSL

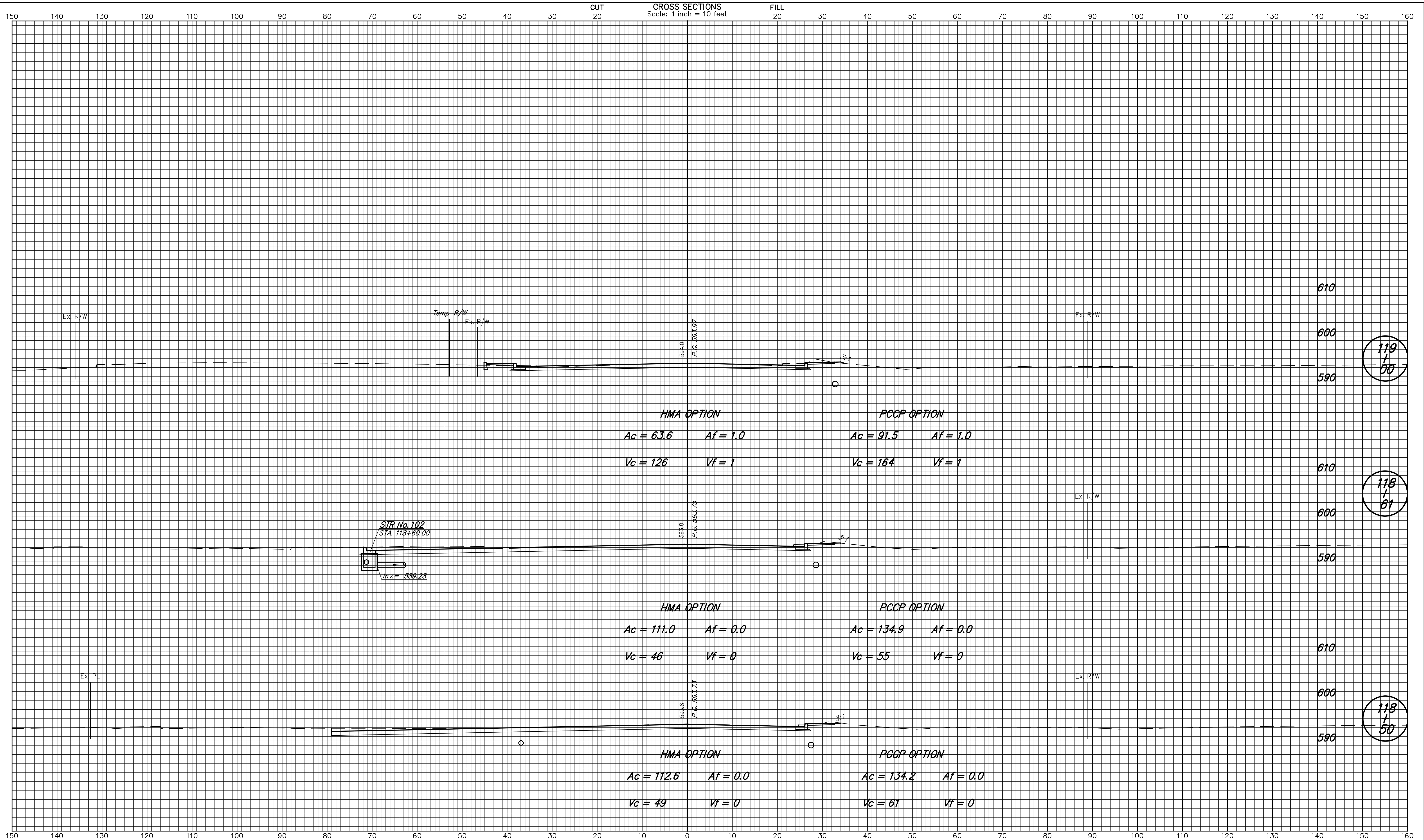
INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIAL SHEET

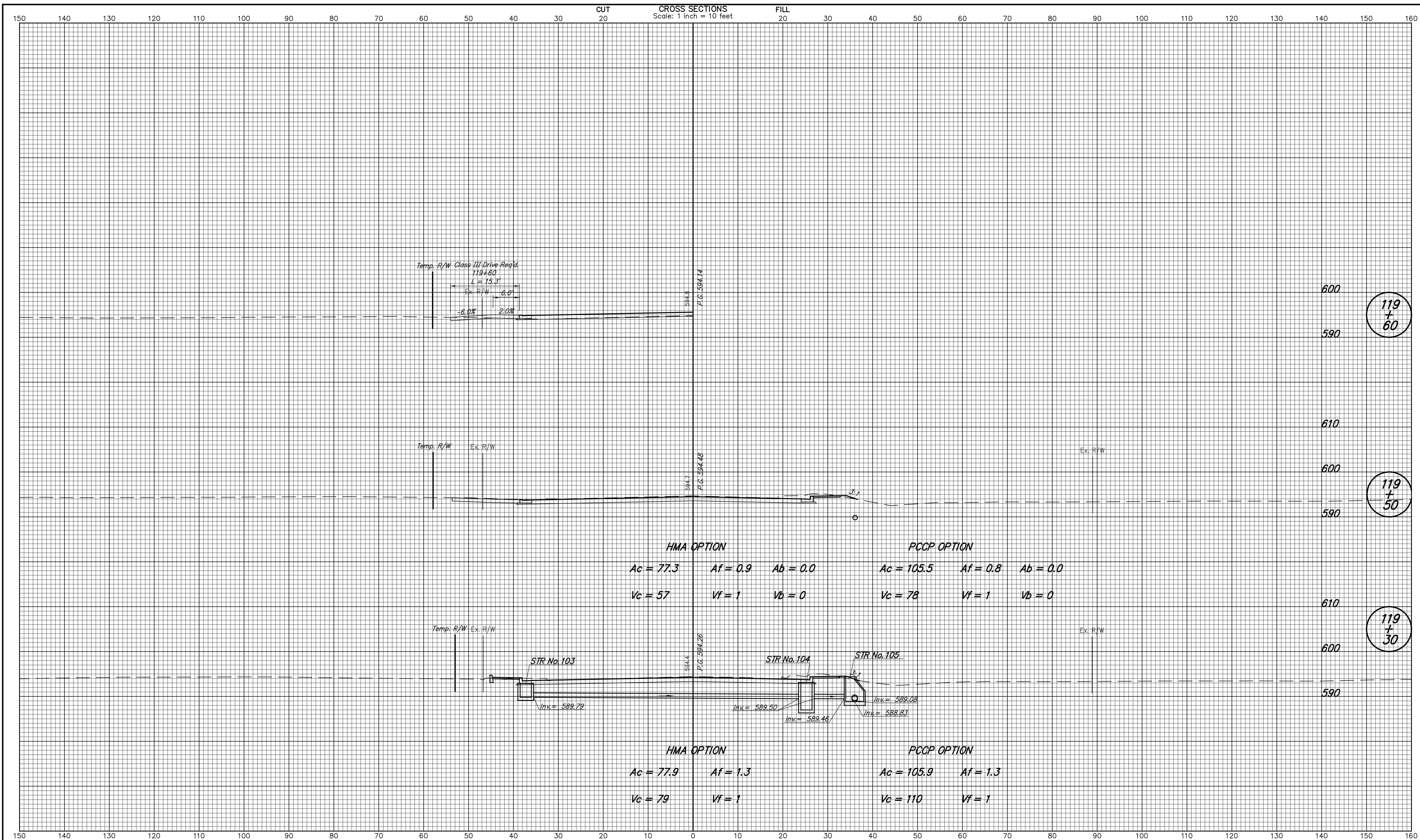
HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION NO.
SURVEY BOOK	SHEETS
CONTRACT	PROJECT NO.
B-33357	117 of 149
	N881008



INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL	CROSS SECTIONS LINE "PR-A"	
		SURVEY BOOK B-33357	SHEETS 118 of 149 PROJECT NO. N881008



DESIGNED: NRM DRAWN: RJC CHECKED: DAD / WSL CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"	HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
		SURVEY BOOK SHEETS 119 of 149	CONTRACT B-33357	PROJECT NO. N881008

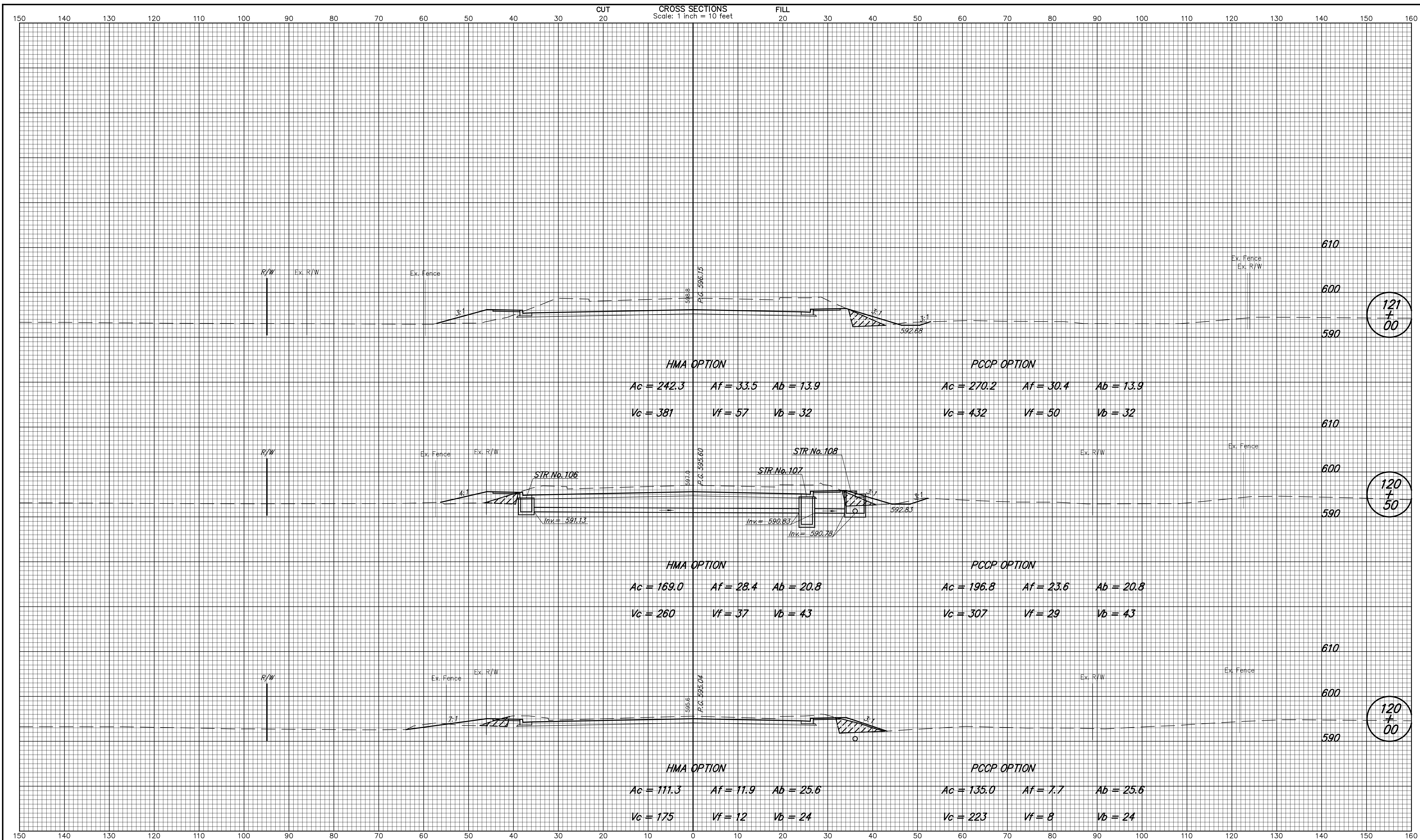


119
+
60

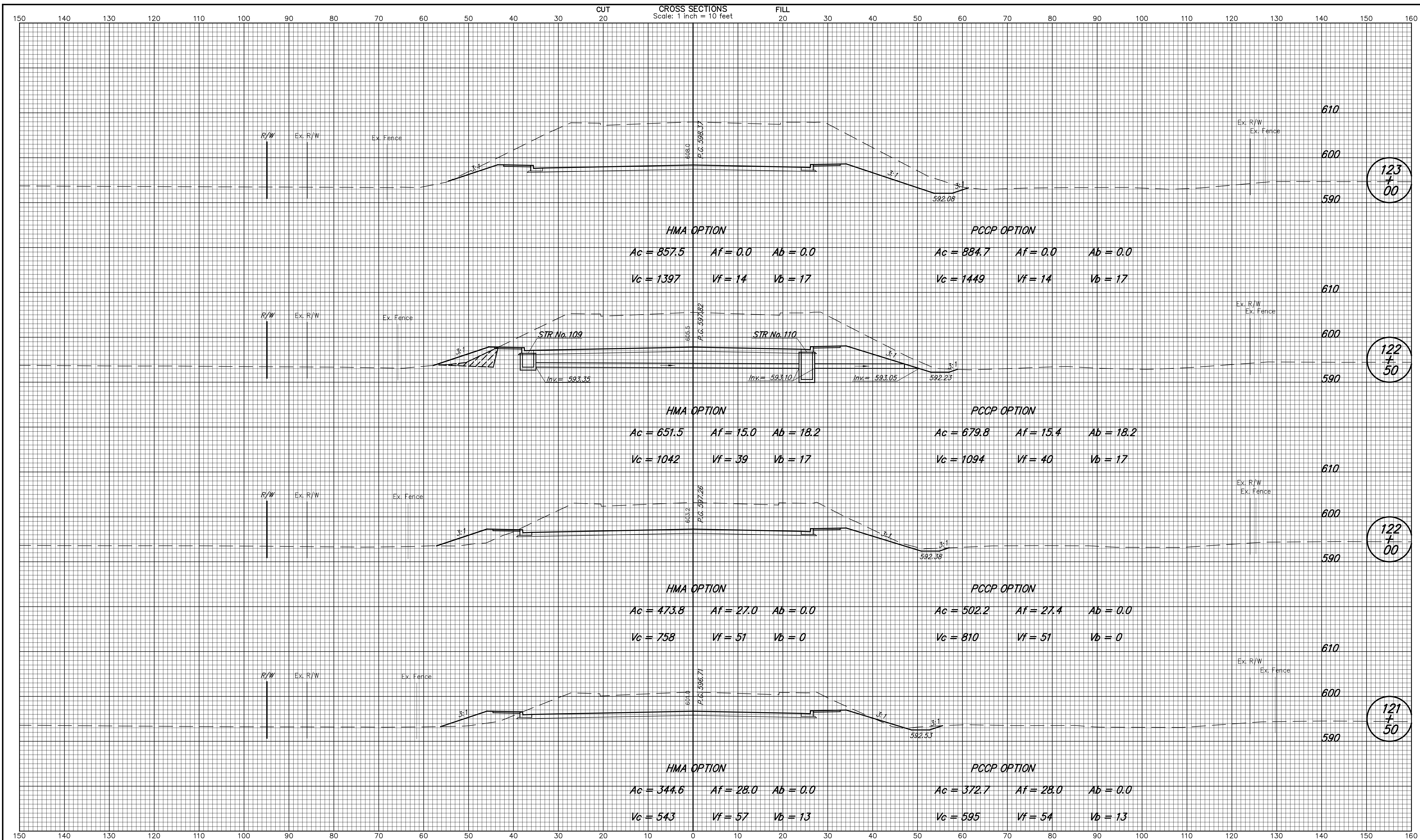
119
+
50

119
+
30

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
CROSS SECTIONS LINE "PR-A"		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
DESIGNED: NRM	DRAWN: RJC	SURVEY BOOK	SHEETS
CHECKED: DAD / WSL	CHECKED: DAD / WSL	CONTRACT B-33357	120 of 149 PROJECT NO. N881008



INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 121 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		



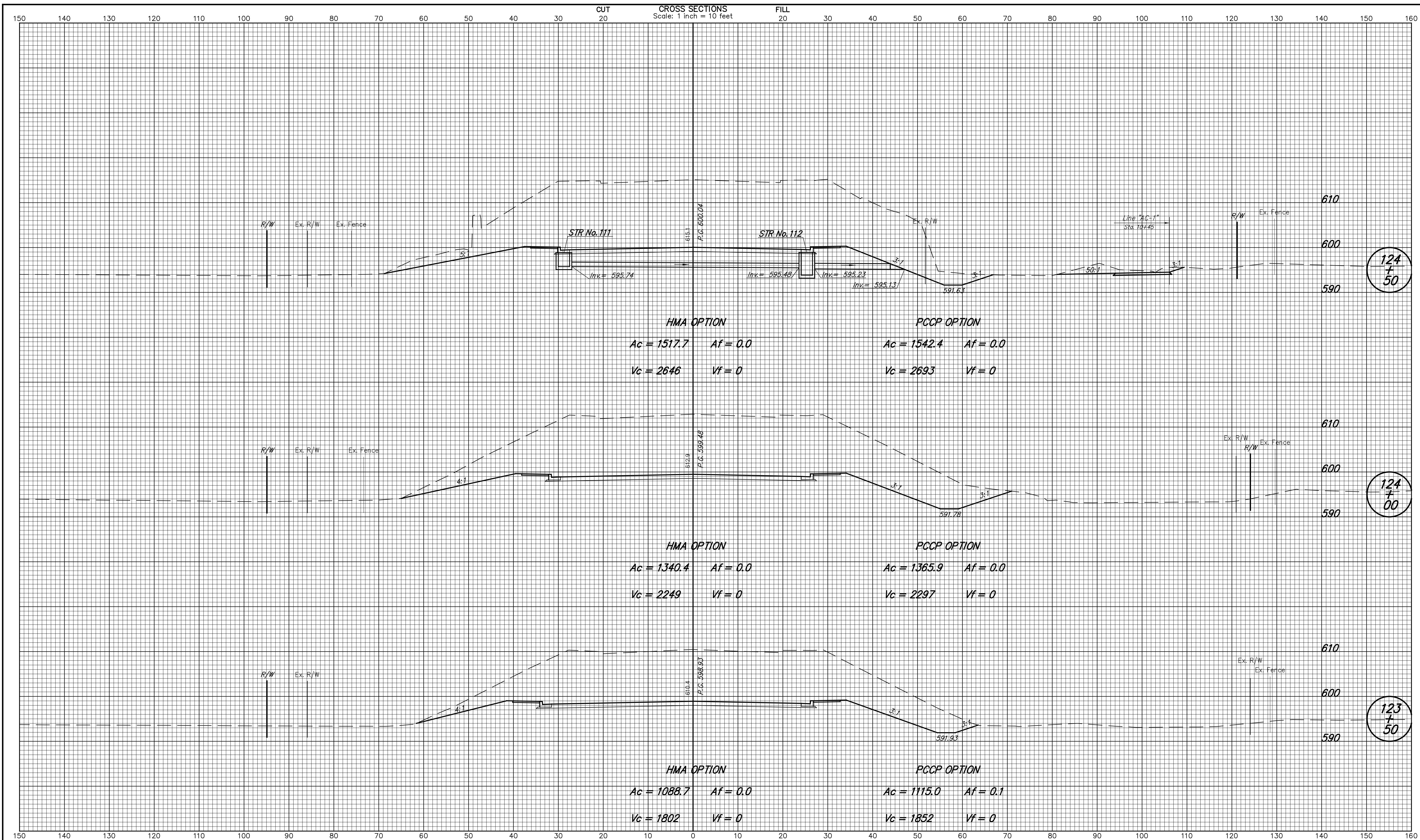
123
+
00

122
+
50

122
+
00

121
+
50

DESIGNED: NRM DRAWN: RJC CHECKED: DAD / WSL CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"	HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10' SURVEY BOOK CONTRACT B-33357	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210 SHEETS 122 of 149 PROJECT NO. N881008
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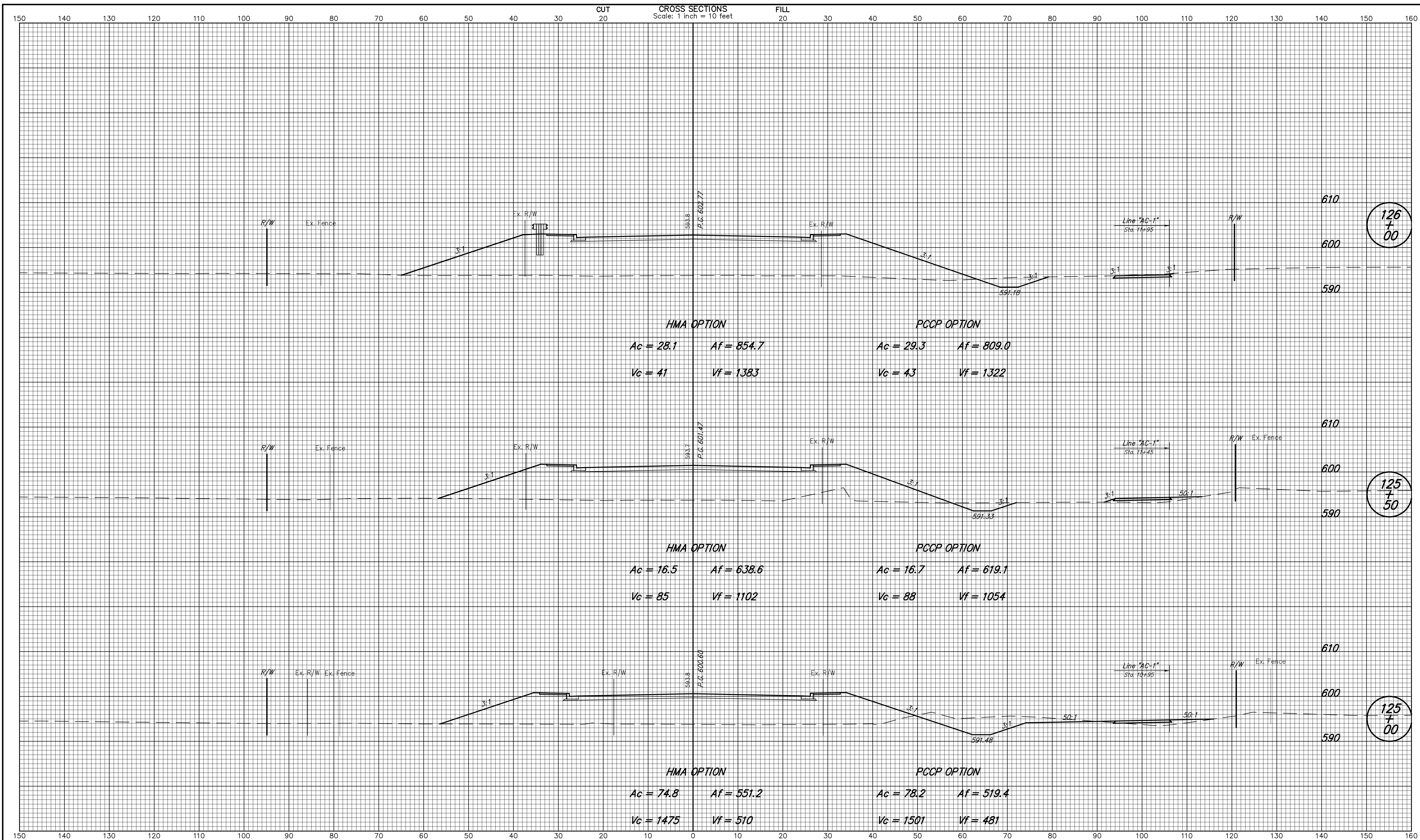


124
+
50

124
+
00

123
+
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INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL	SURVEY BOOK B-33357	SHEETS 123 of 149 PROJECT NO. N881008

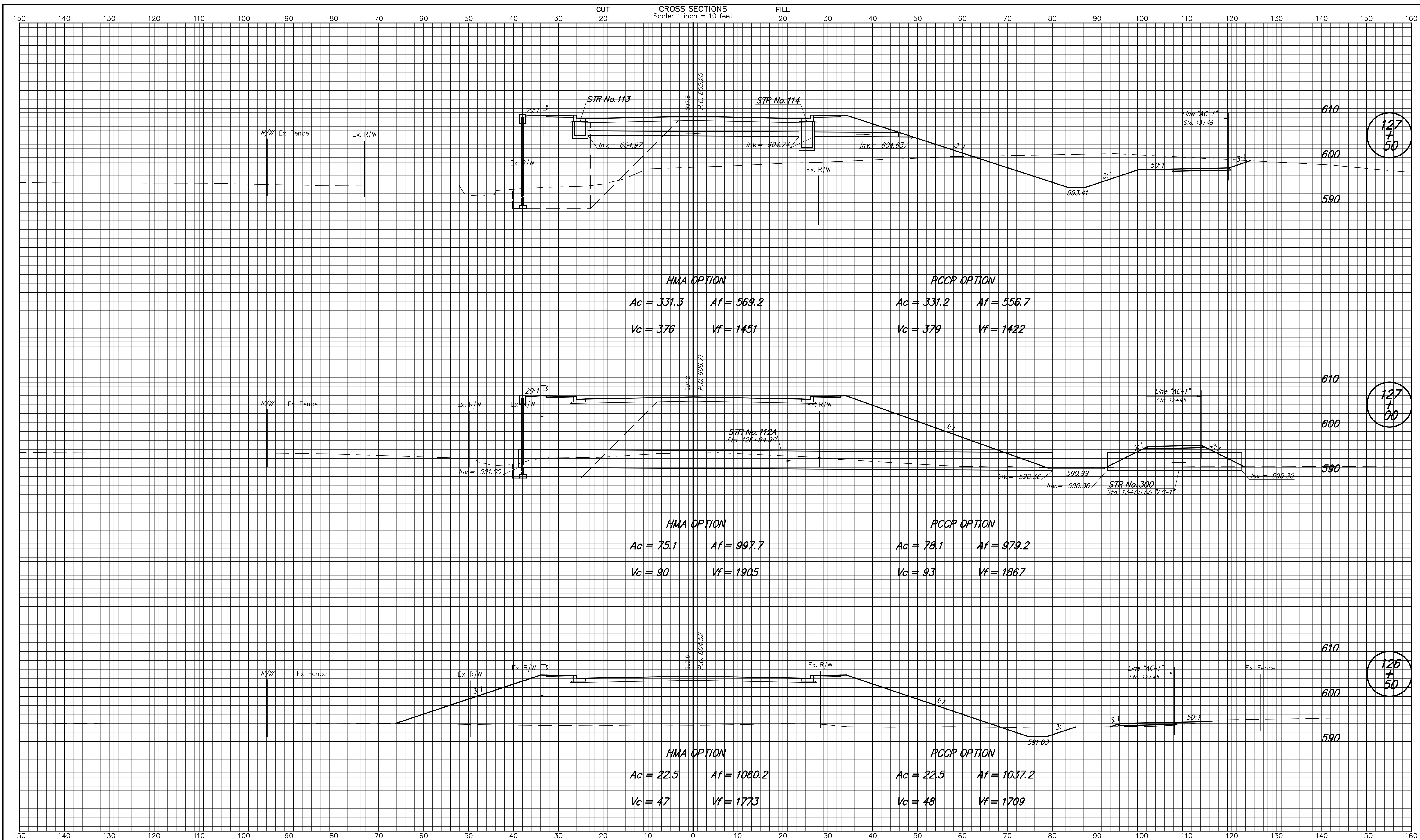


126
+
00

125
+
50

125
+
00

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
CROSS SECTIONS LINE "PR-A"		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
DESIGNED: NRM	DRAWN: RJC	SURVEY BOOK	SHEETS
CHECKED: DAD / WSL	CHECKED: DAD / WSL	CONTRACT B-33357	124 of 149 PROJECT NO. N881008

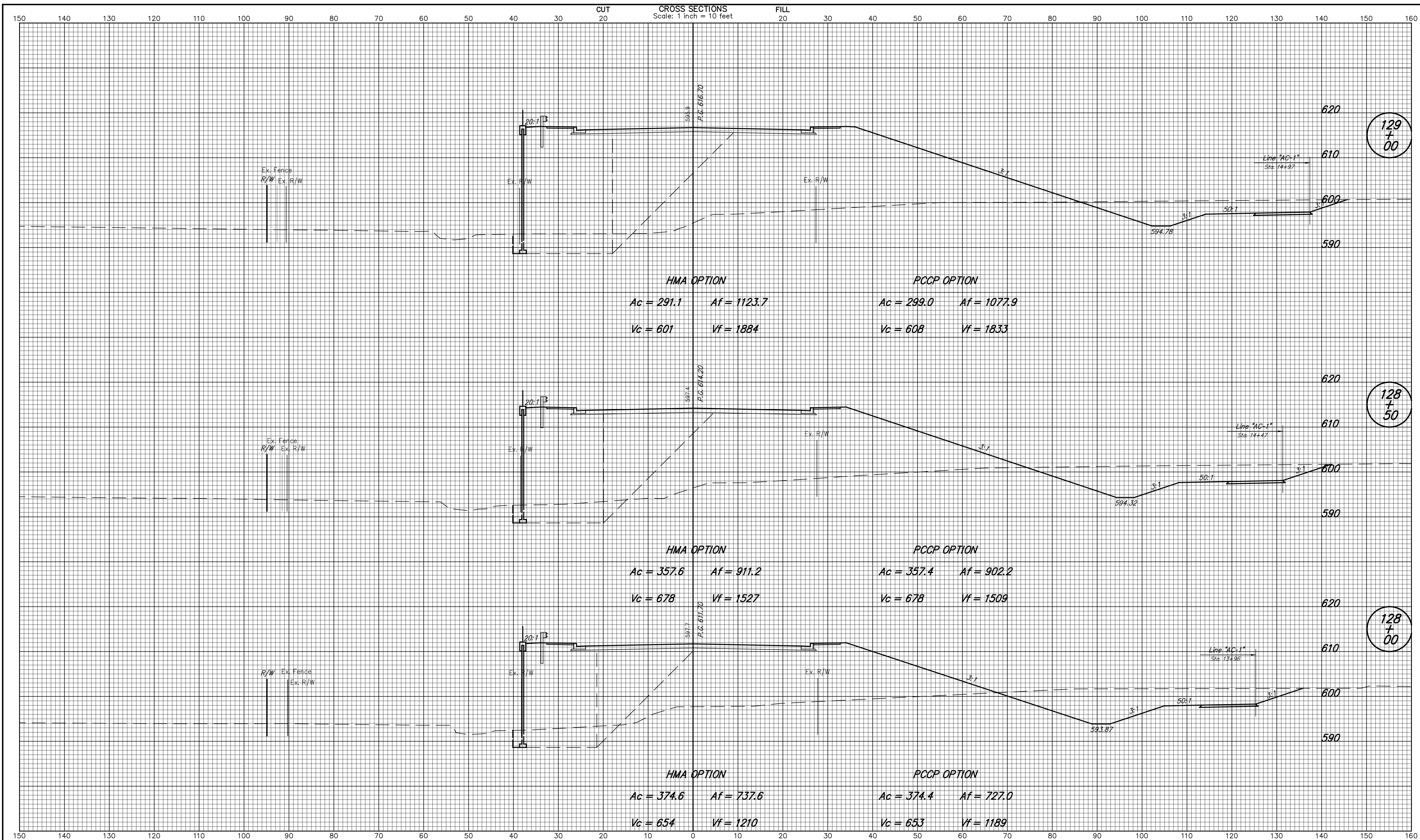


127
+
50

127
+
00

126
+
50

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 125 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		

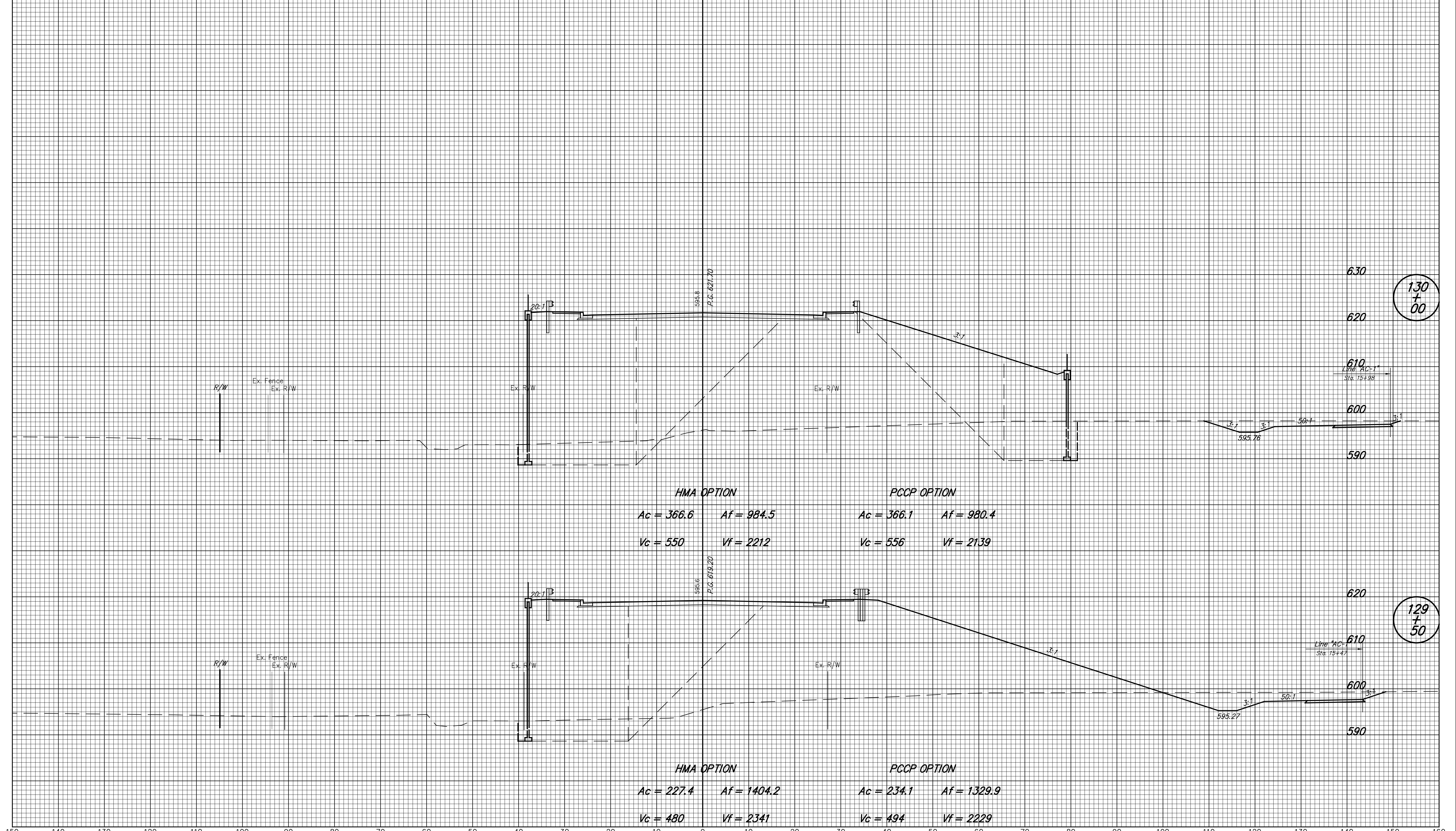


129
+
00

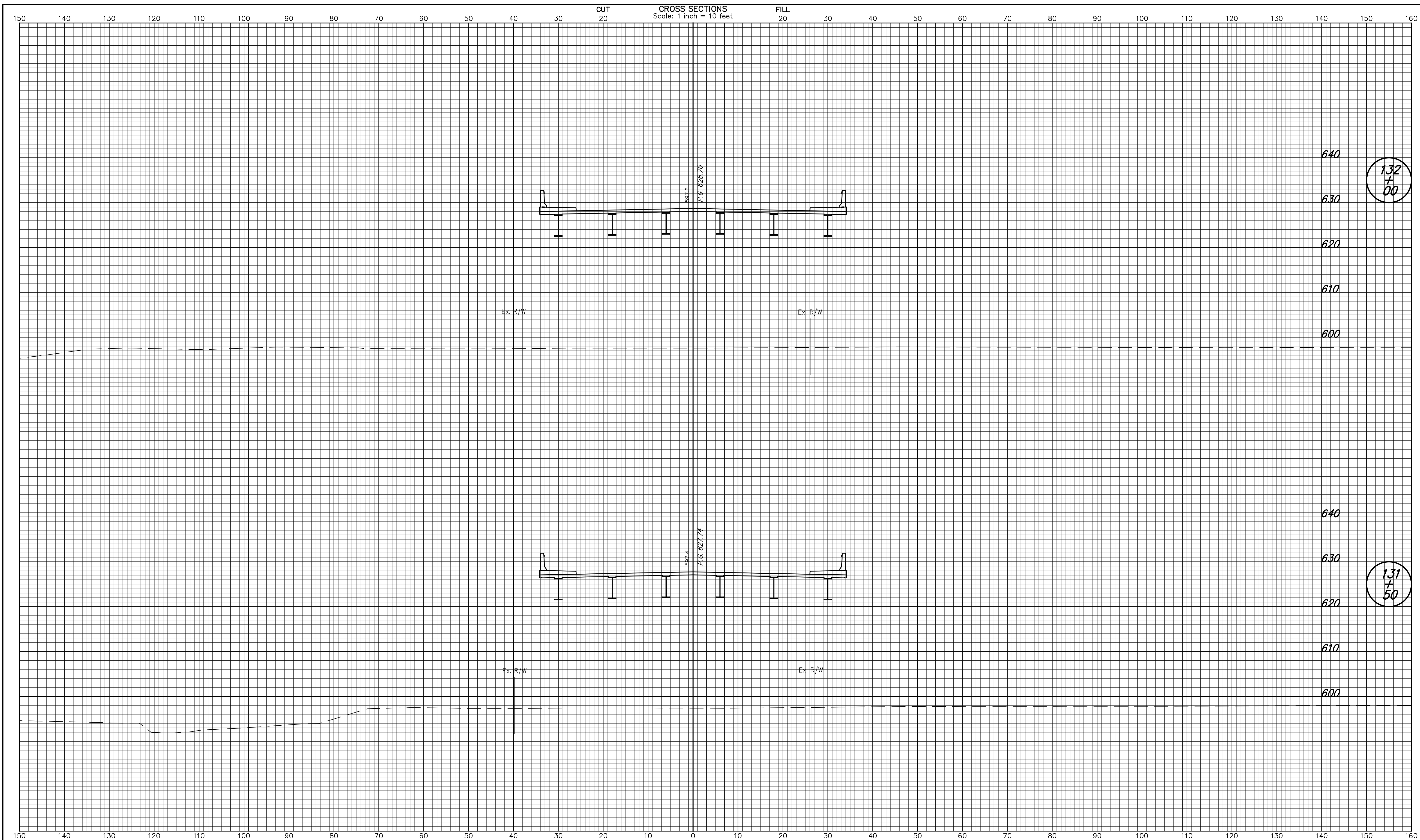
128
+
50

128
+
00

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10' SURVEY BOOK CONTRACT B-33357	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210 SHEETS 126 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL	CROSS SECTIONS LINE "PR-A"	



INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 127 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		



132
+
00

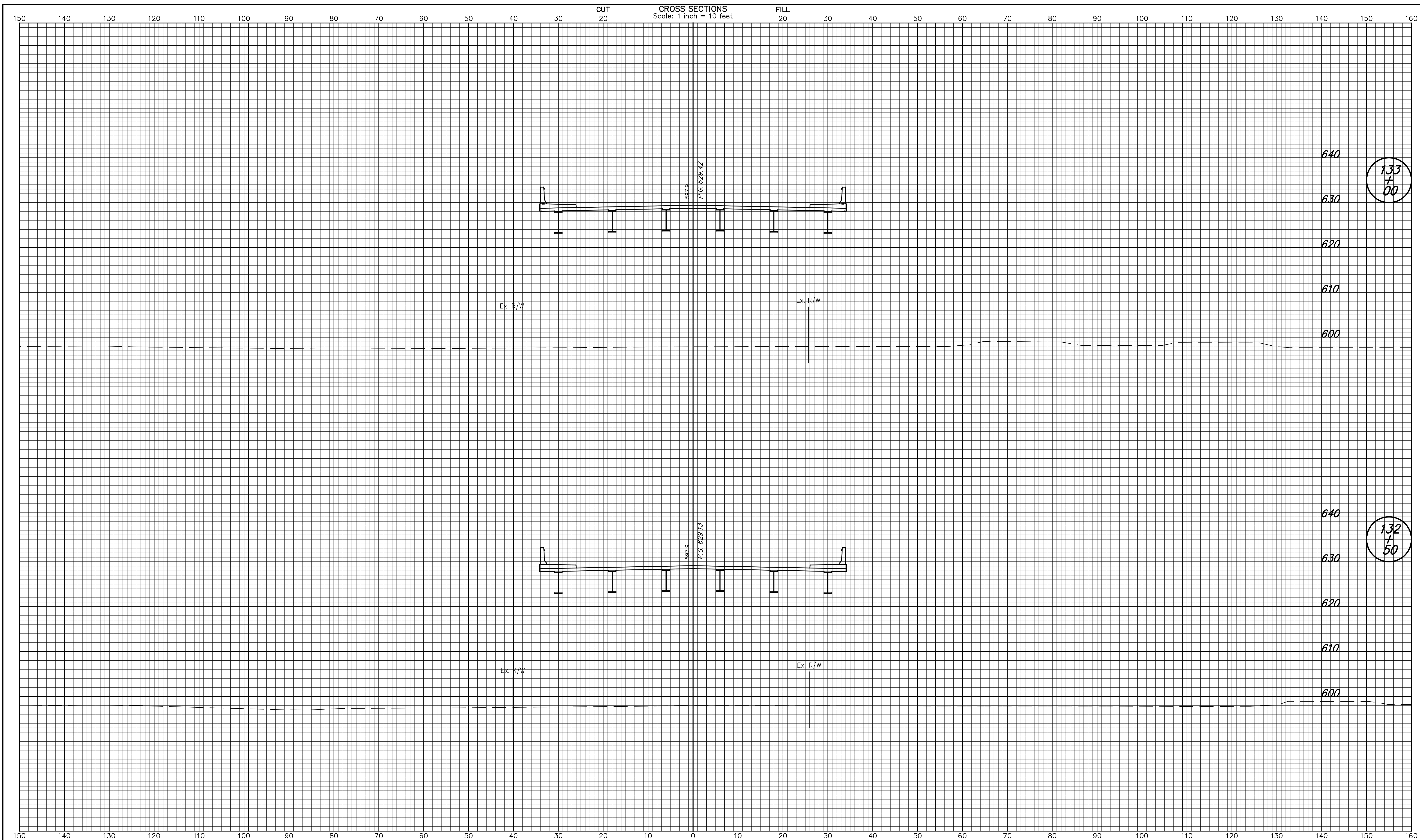
131
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50

DESIGNED: NRM		DRAWN: RJC	
CHECKED: DAD / WSL		CHECKED: DAD / WSL	

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "PR-A"**

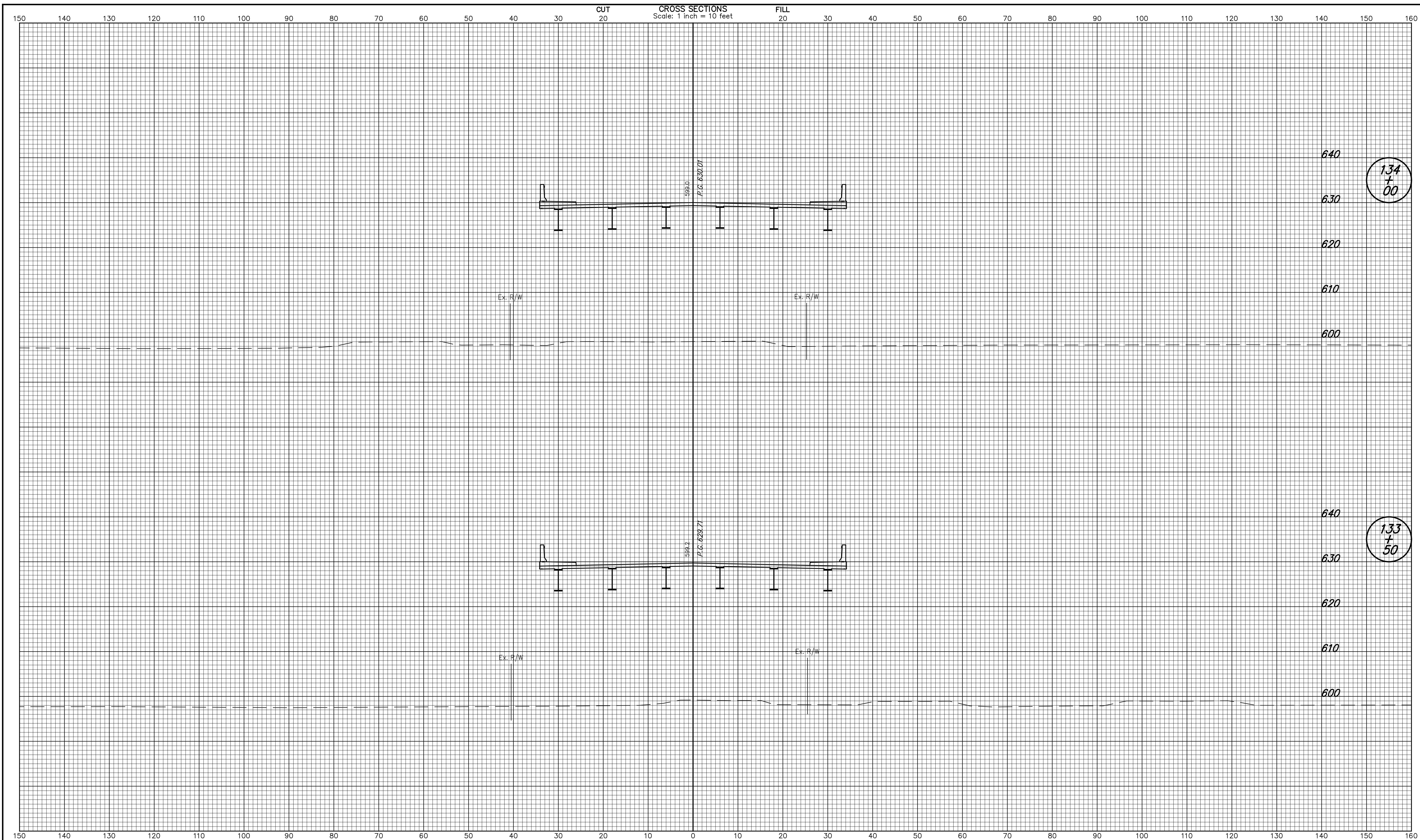
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 129 of 149
CONTRACT B-33357	PROJECT NO. N881008



133
+
00

132
+
50

INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 130 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		

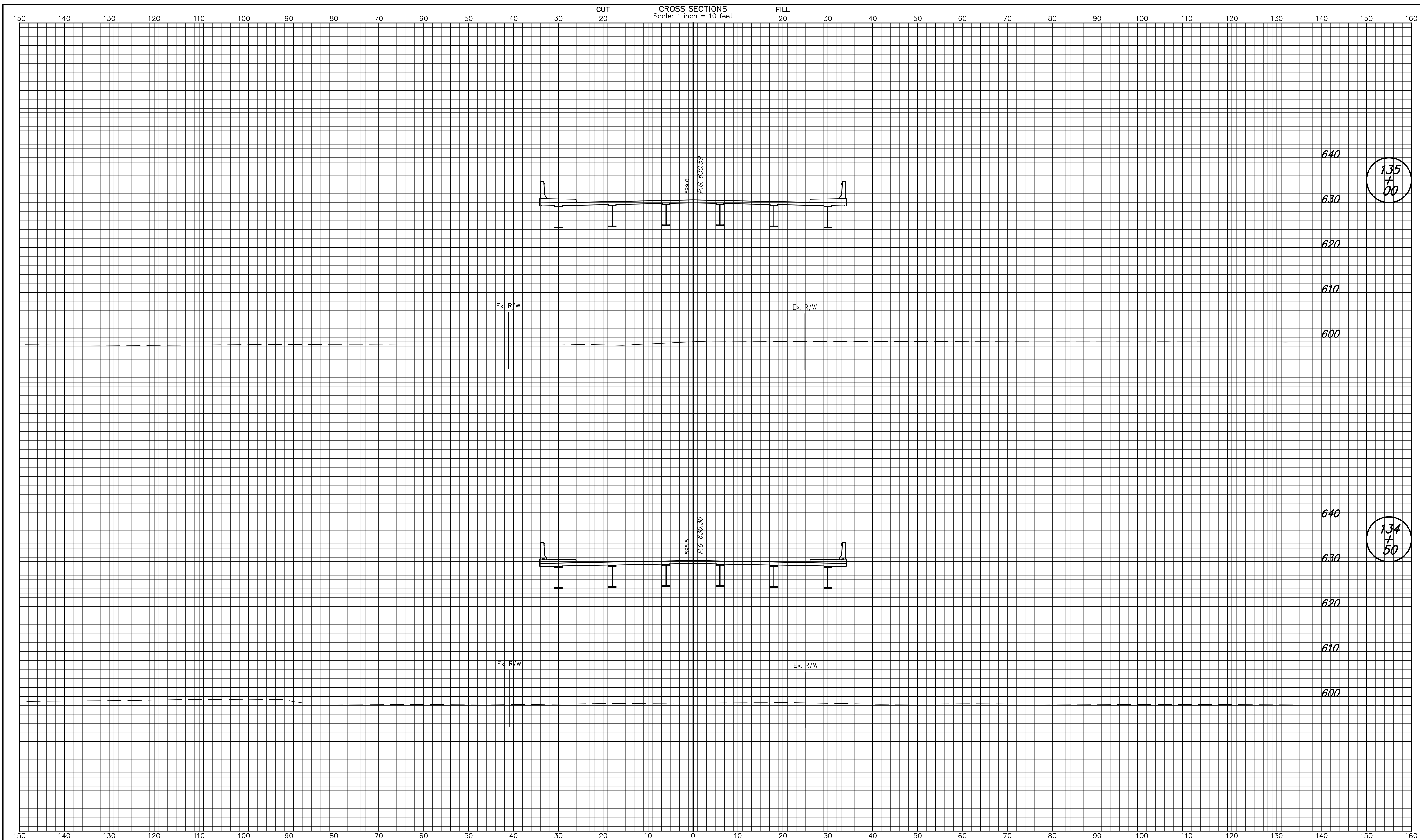


DESIGNED: NRM	DRAWN: RJC
CHECKED: DAD / WSL	CHECKED: DAD / WSL

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 131 of 149
CONTRACT B-33357	PROJECT NO. N881008



CROSS SECTIONS
Scale: 1 inch = 10 feet

CUT
20

FILL
20

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

640
630
620
610
600

135
+
00

640
630
620
610
600

134
+
50

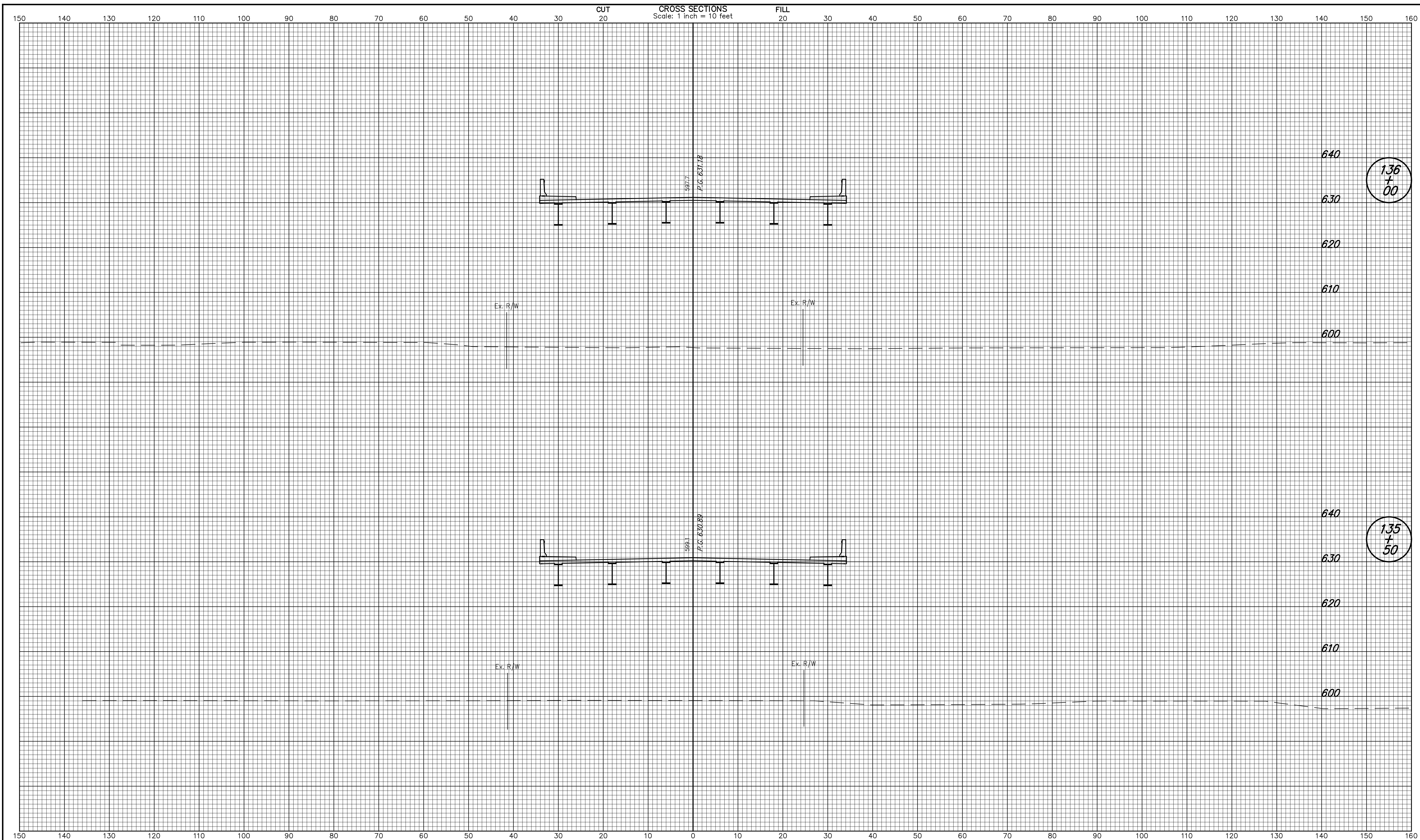
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DESIGNED: NRM	DRAWN: RJC
CHECKED: DAD / WSL	CHECKED: DAD / WSL

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 132 of 149
CONTRACT B-33357	PROJECT NO. N881008



136
+
00

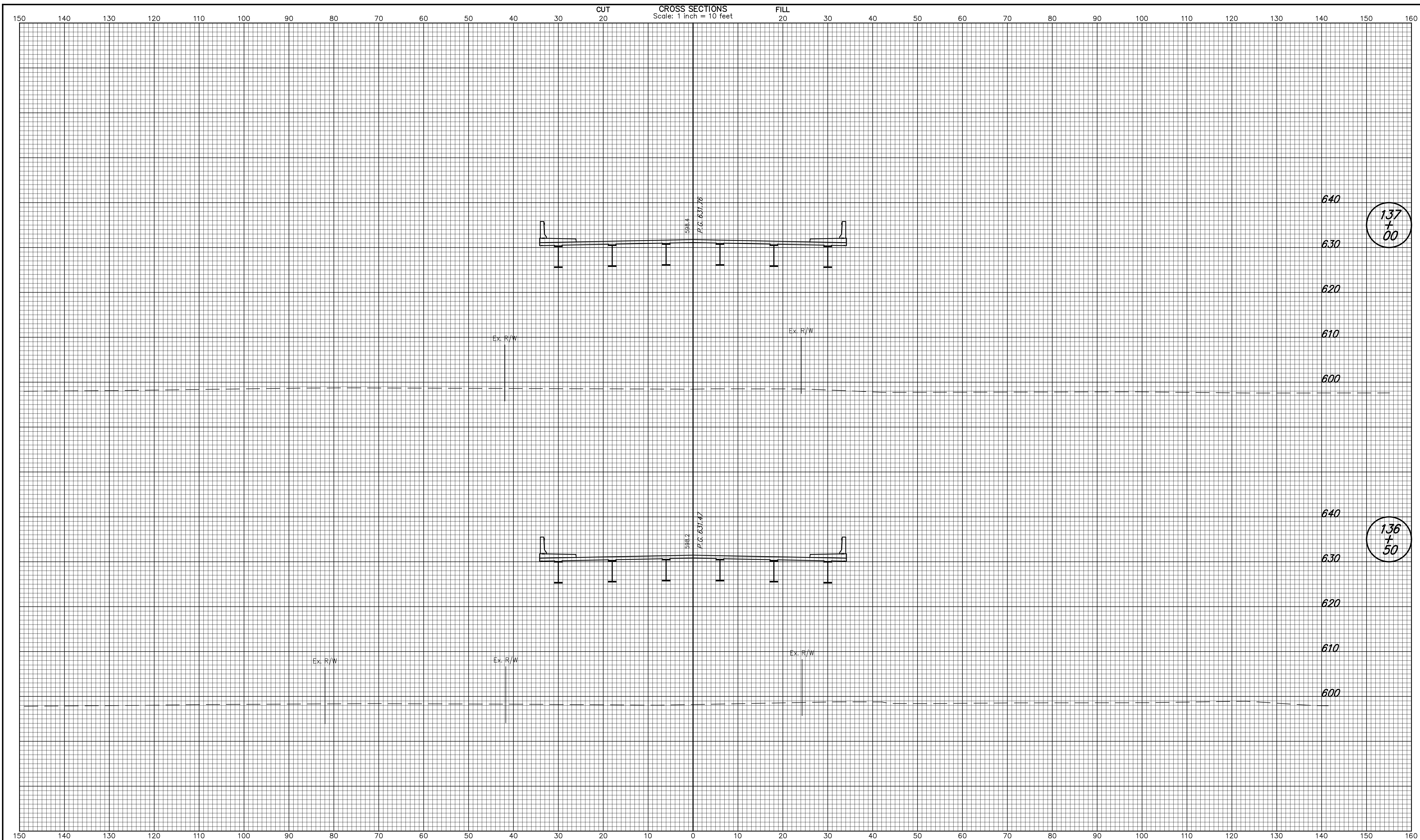
135
+
50

DESIGNED: NRM		DRAWN: RJC	
CHECKED: DAD / WSL		CHECKED: DAD / WSL	

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "PR-A"**

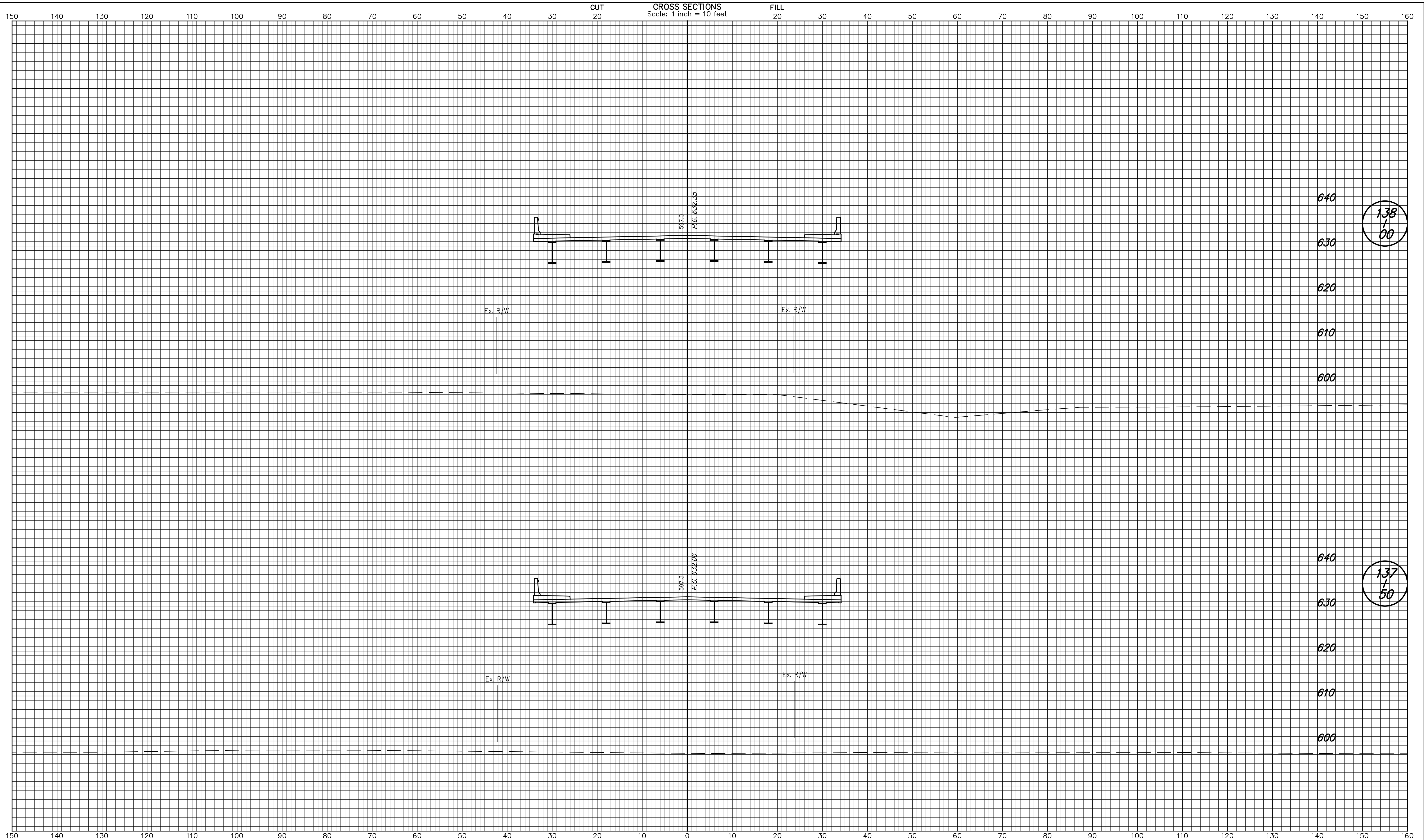
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 133 of 149
CONTRACT B-33357	PROJECT NO. N881008



137
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136
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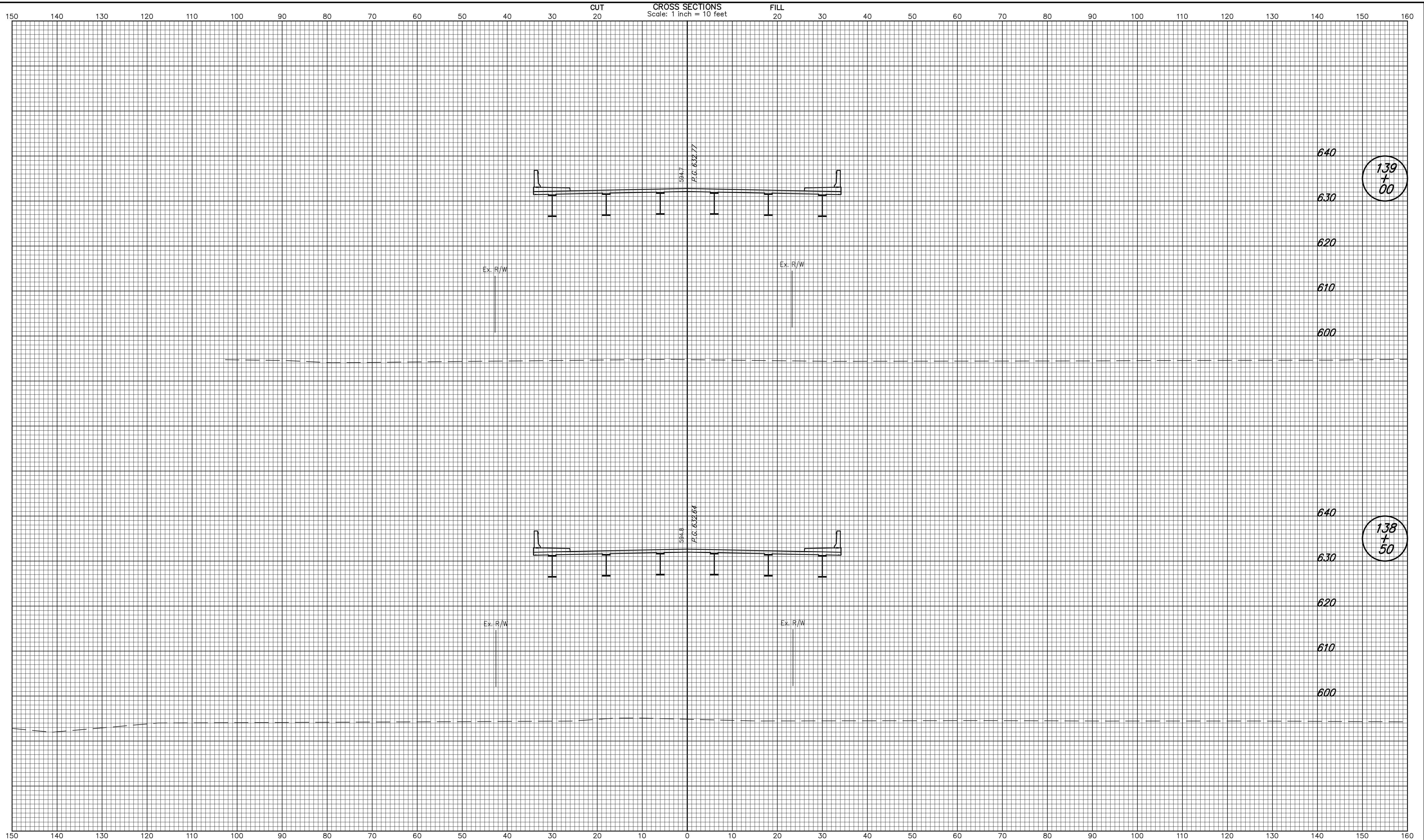
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						VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
				SURVEY BOOK B-33357	SHEETS 134 of 149	PROJECT NO. N881008	



138
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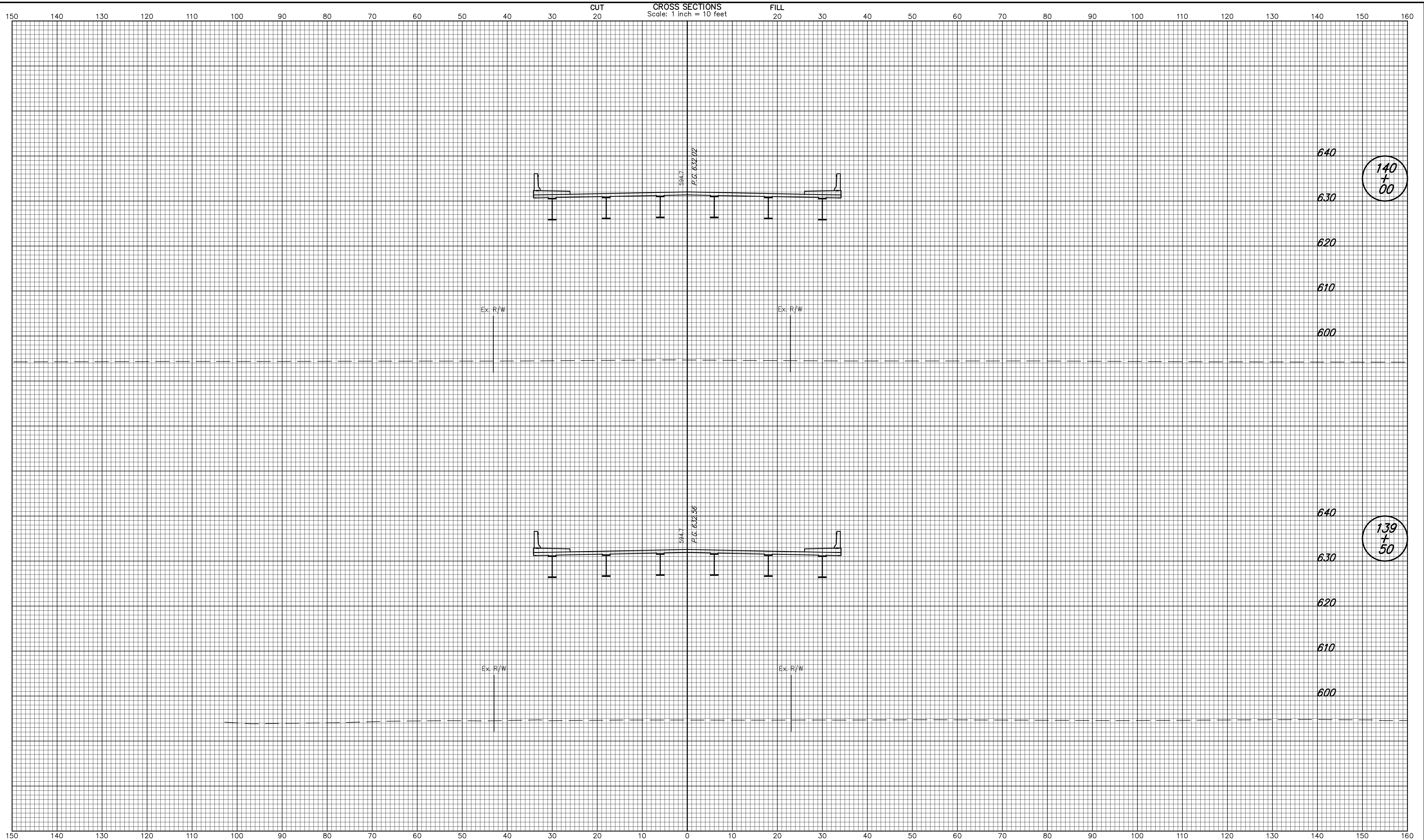
137
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DESIGNED: NRM CHECKED: DAD / WSL		DRAWN: RJC CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
						VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
				SURVEY BOOK B-33357	SHEETS 135 of 149	PROJECT NO. N881008	



INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK	SHEETS
		CONTRACT B-33357	136 of 149 PROJECT NO. N881008

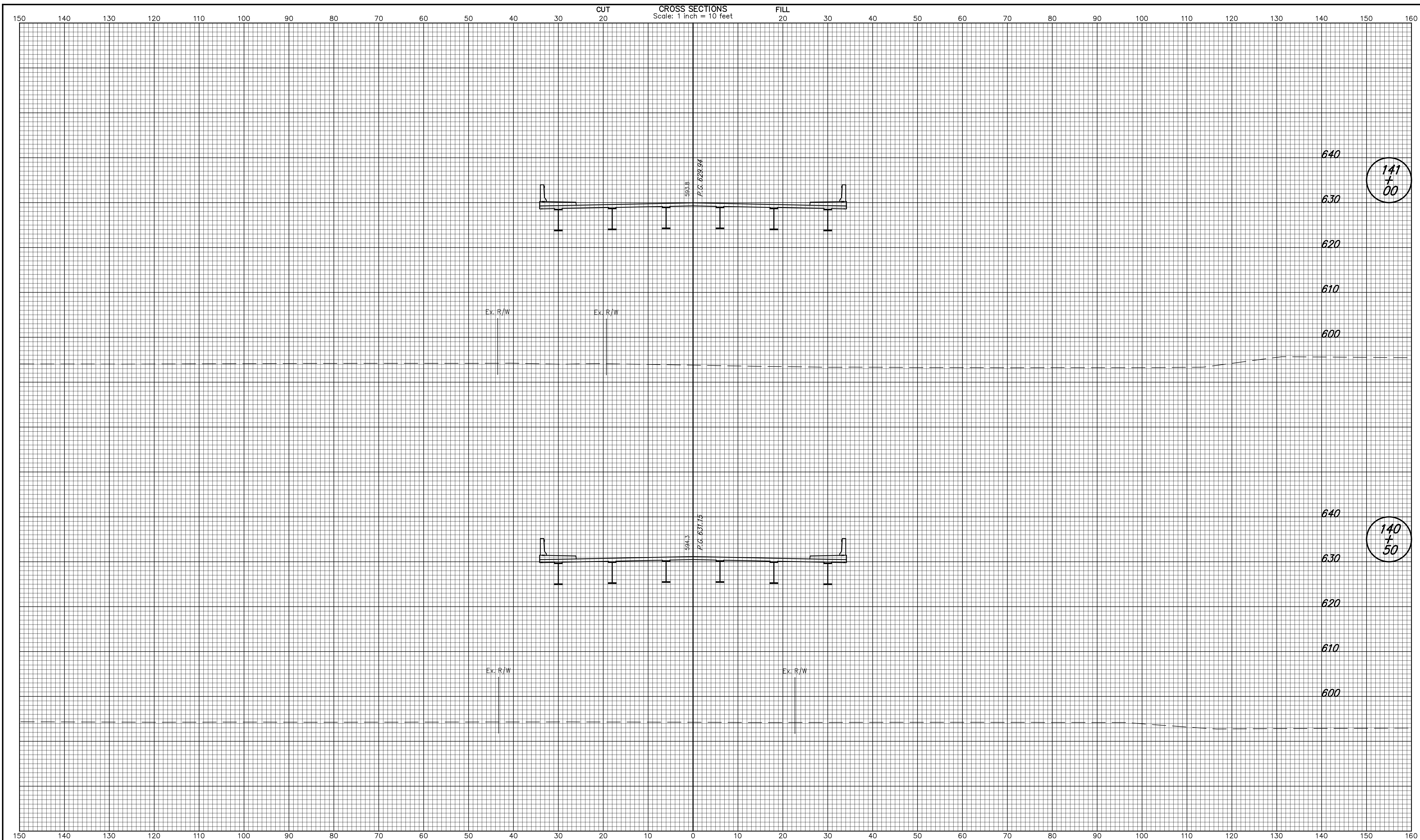
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CHECKED: DAD / WSL	CHECKED: DAD / WSL



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INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 137 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		



141
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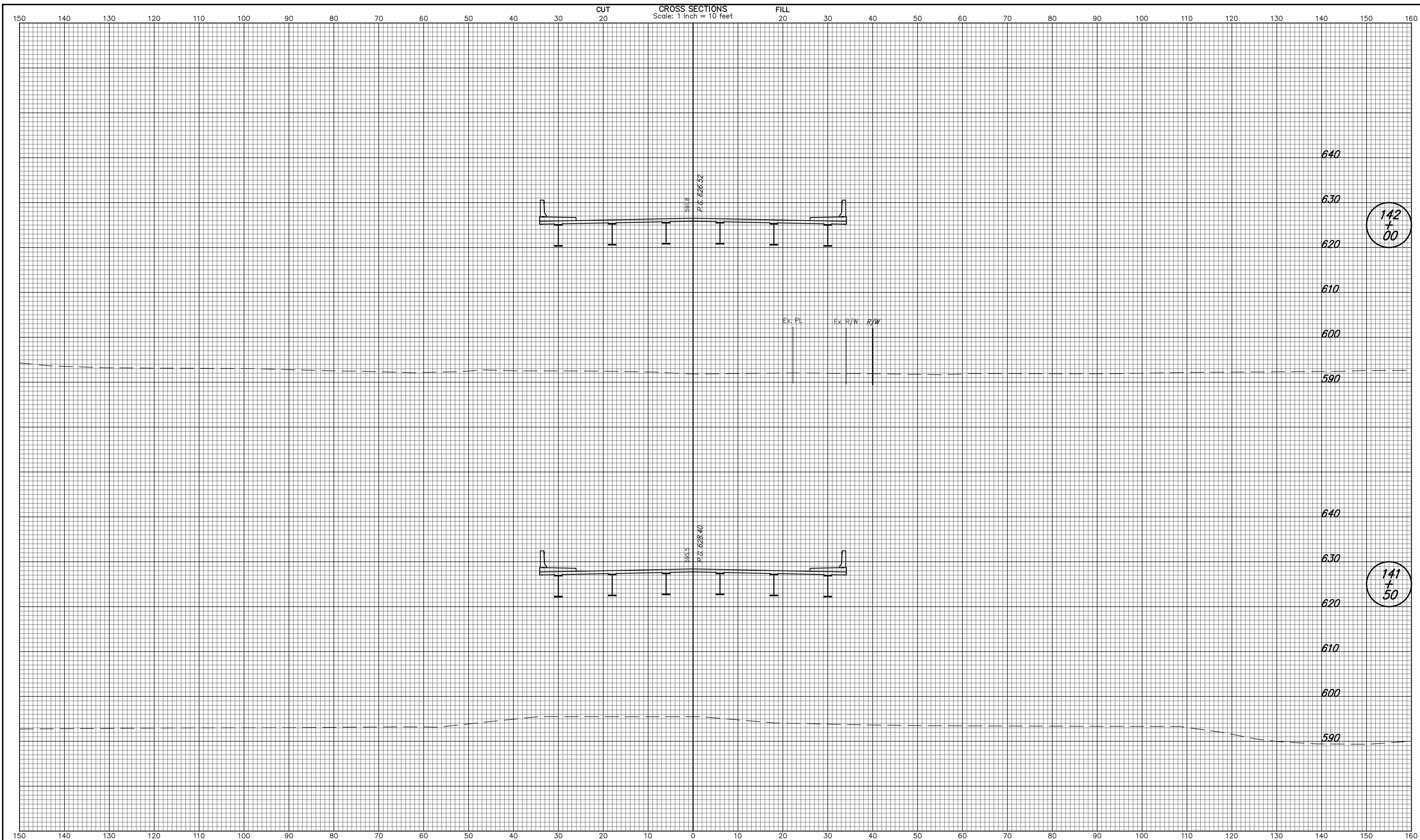
140
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DESIGNED: NRM	DRAWN: RJC
CHECKED: DAD / WSL	CHECKED: DAD / WSL

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 138 of 149
CONTRACT B-33357	PROJECT NO. N881008

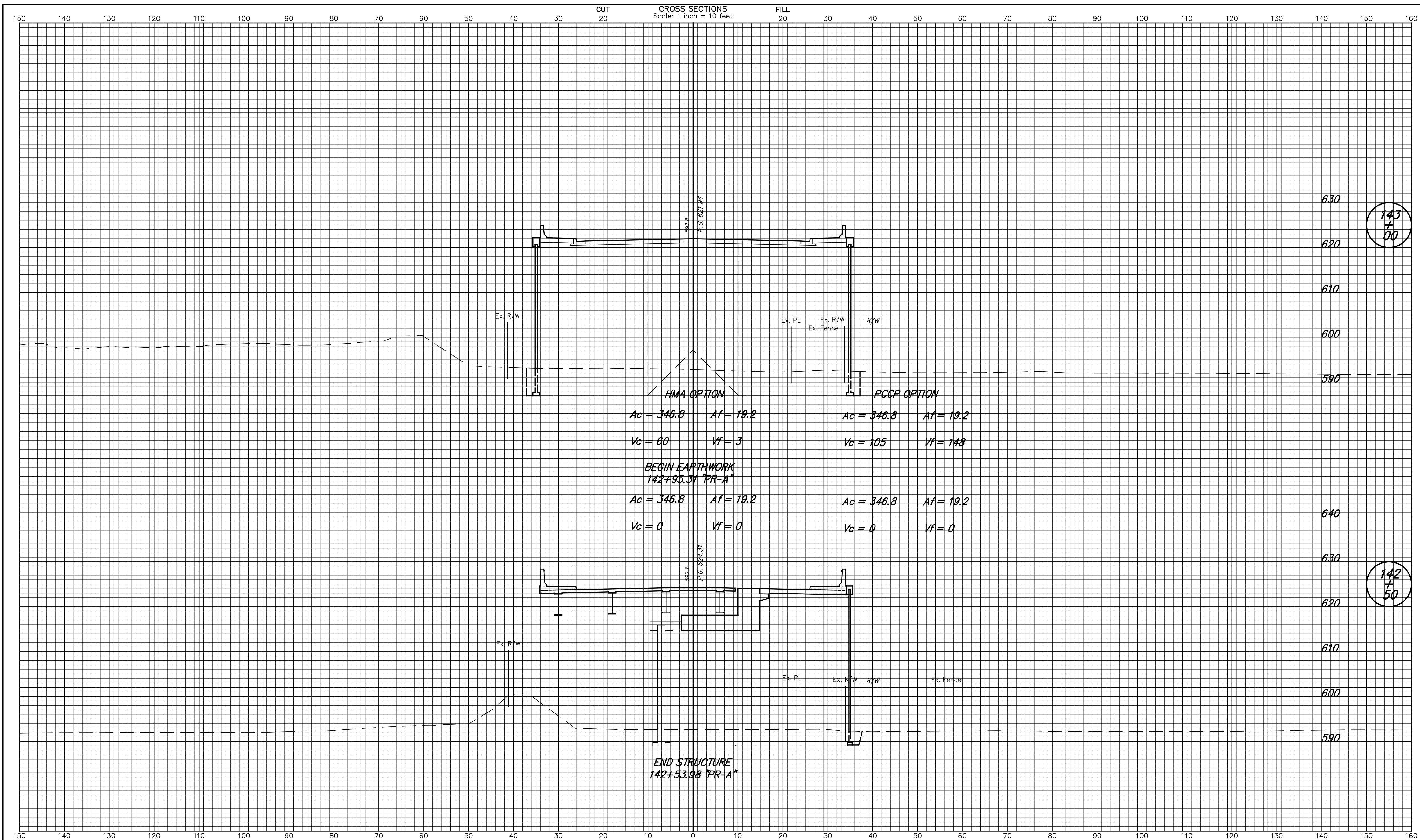


DESIGNED: NRM	DRAWN: RJC
CHECKED: DAD / WSL	CHECKED: DAD / WSL

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "PR-A"**

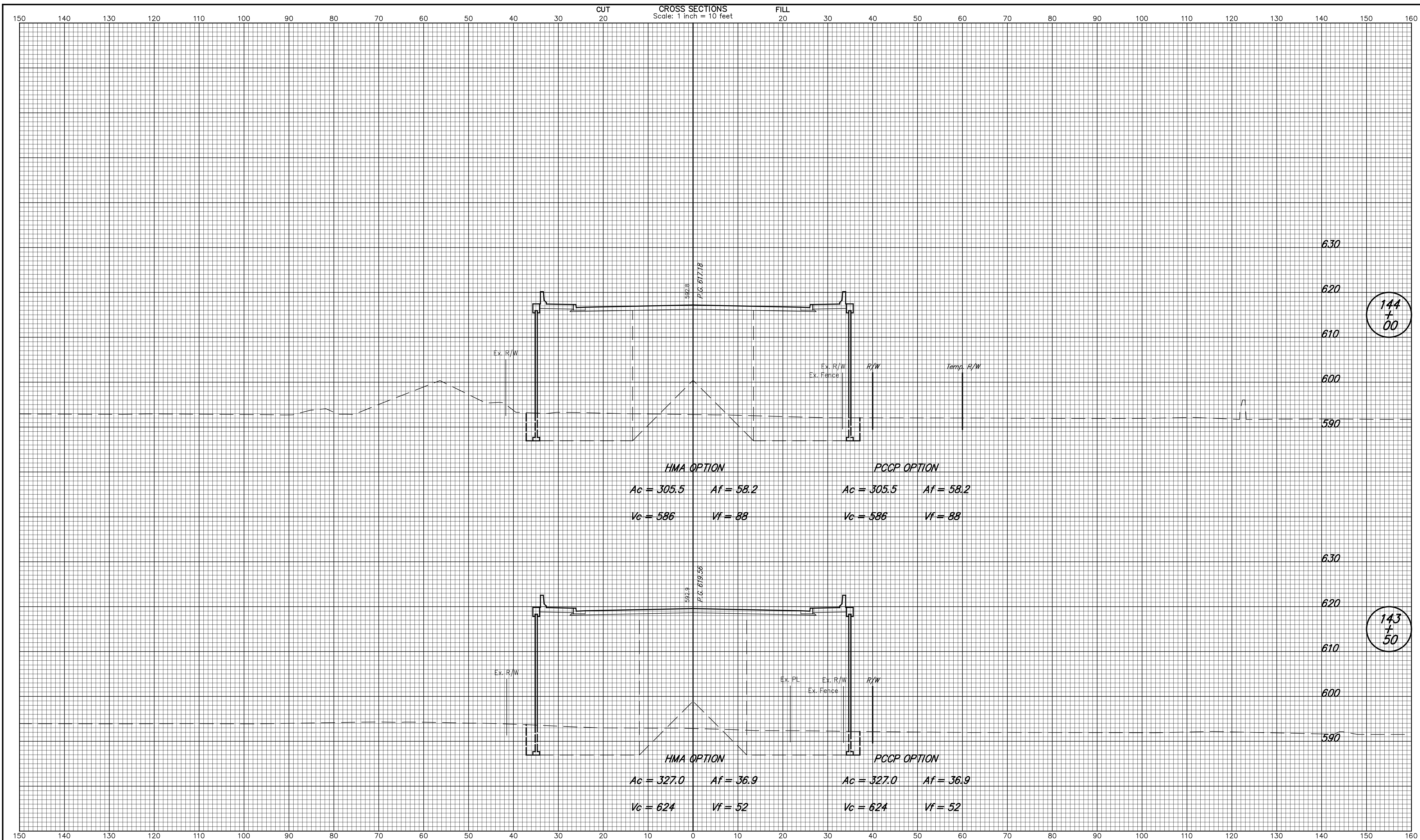
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
SURVEY BOOK	SHEETS 139 of 149
CONTRACT B-33357	PROJECT NO. N881008



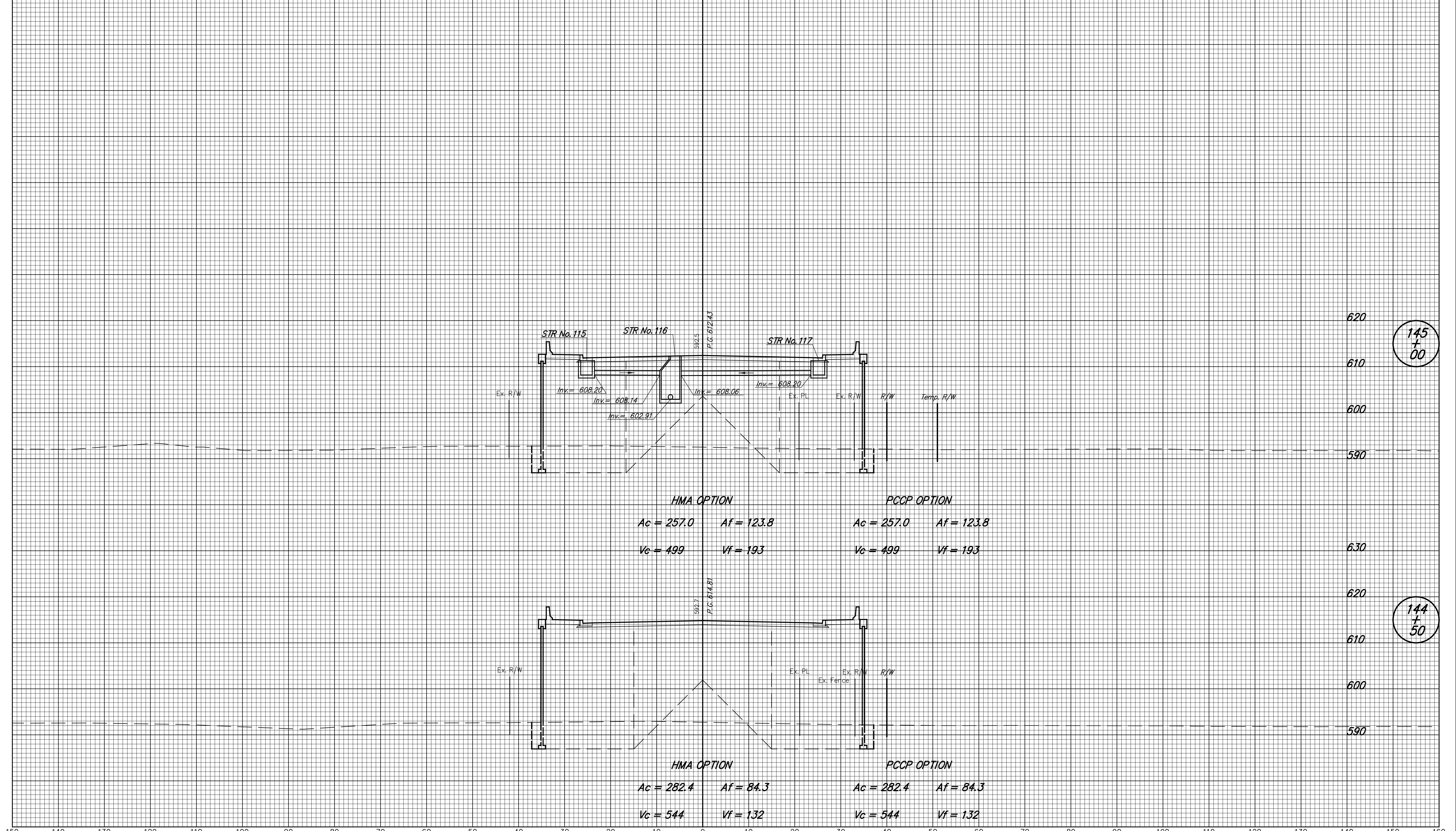
143
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DESIGNED: NRM DRAWN: RJC CHECKED: DAD / WSL CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"	HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10' SURVEY BOOK CONTRACT B-33357	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210 SHEETS 140 of 149 PROJECT NO. N881008
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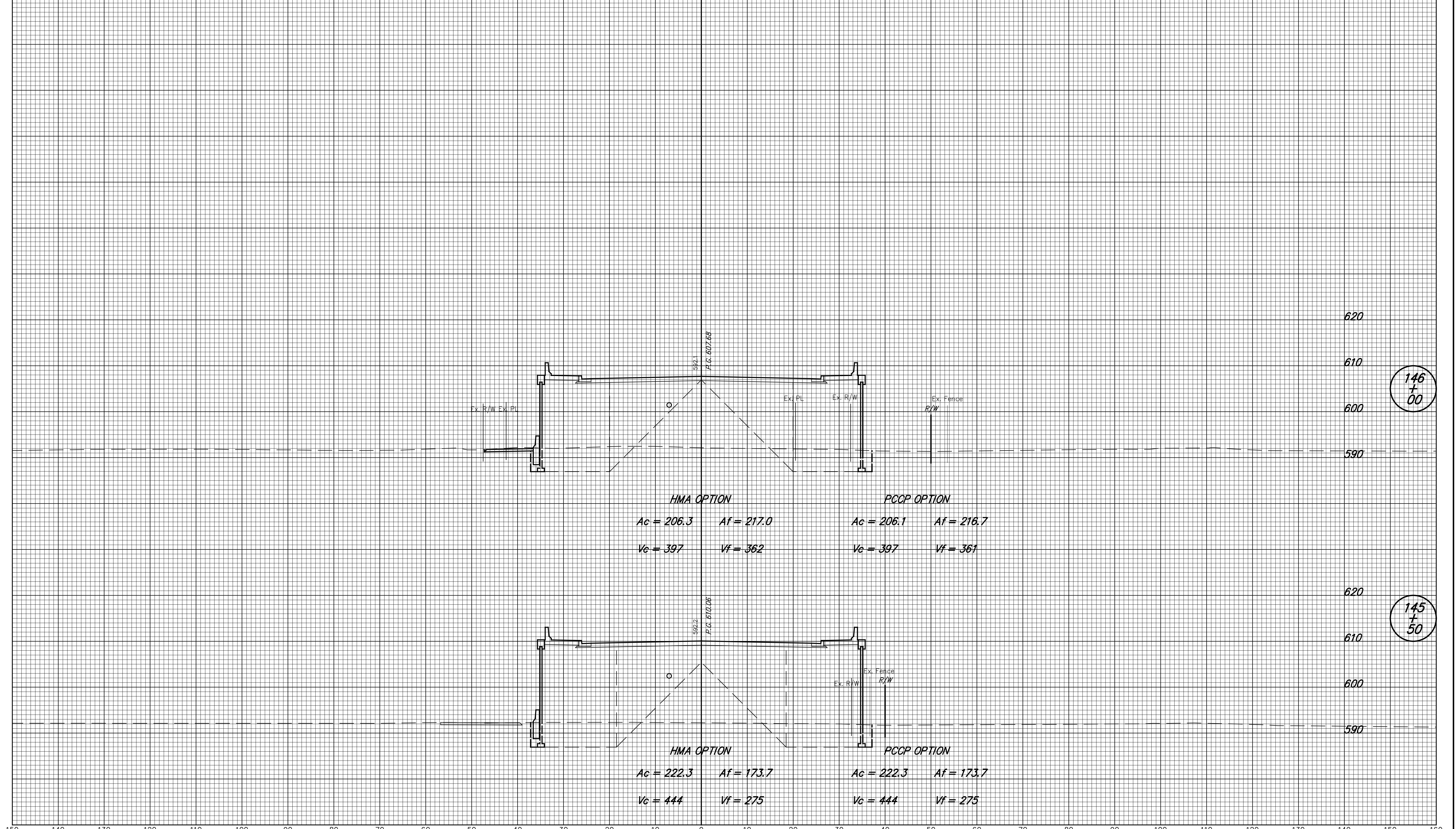
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CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 141 of 149 PROJECT NO. N881008
DESIGNED: NRM	DRAWN: RJC		
CHECKED: DAD / WSL	CHECKED: DAD / WSL		



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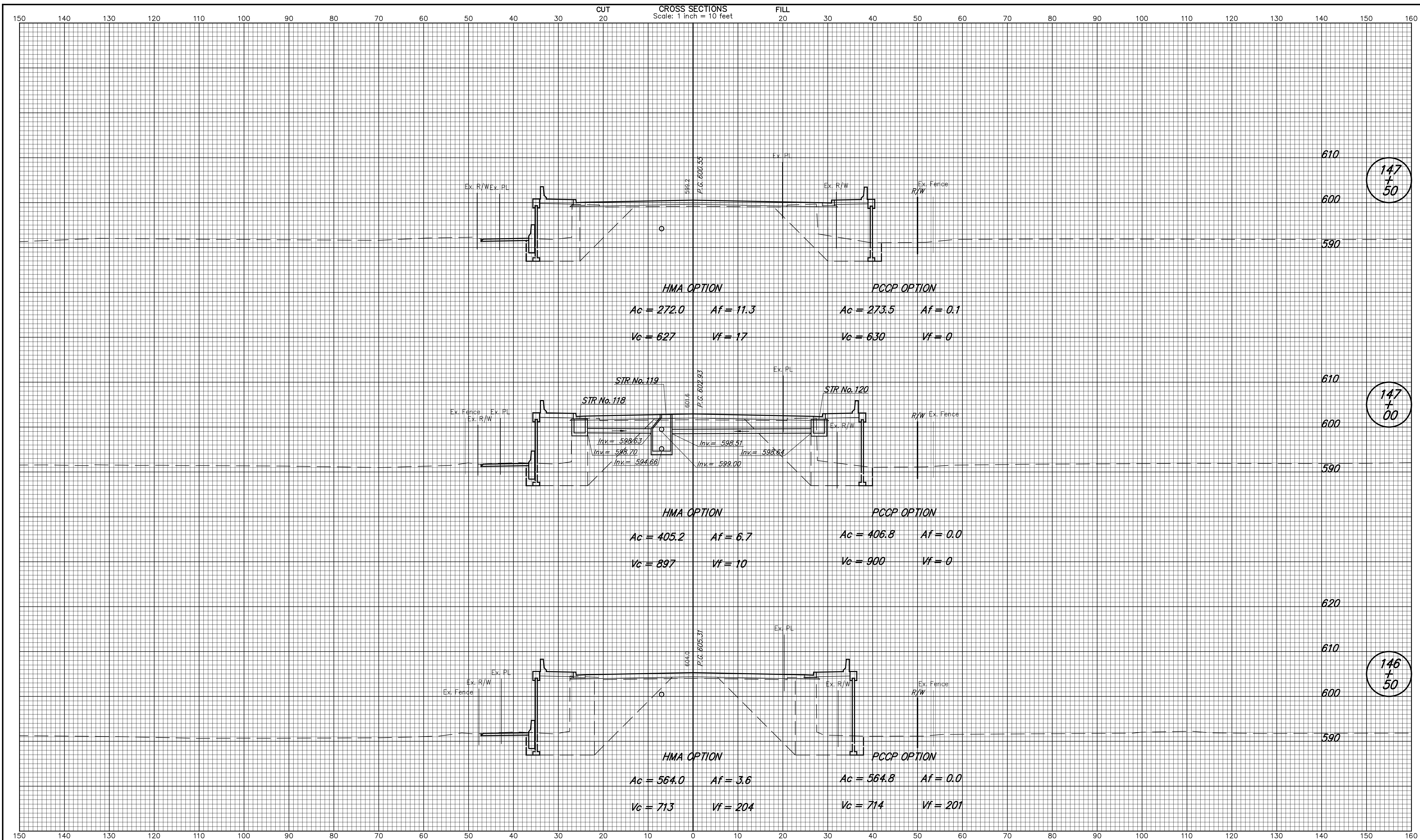
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						VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
				SURVEY BOOK B-33357	SHEETS 142 of 149	PROJECT NO. N881008	



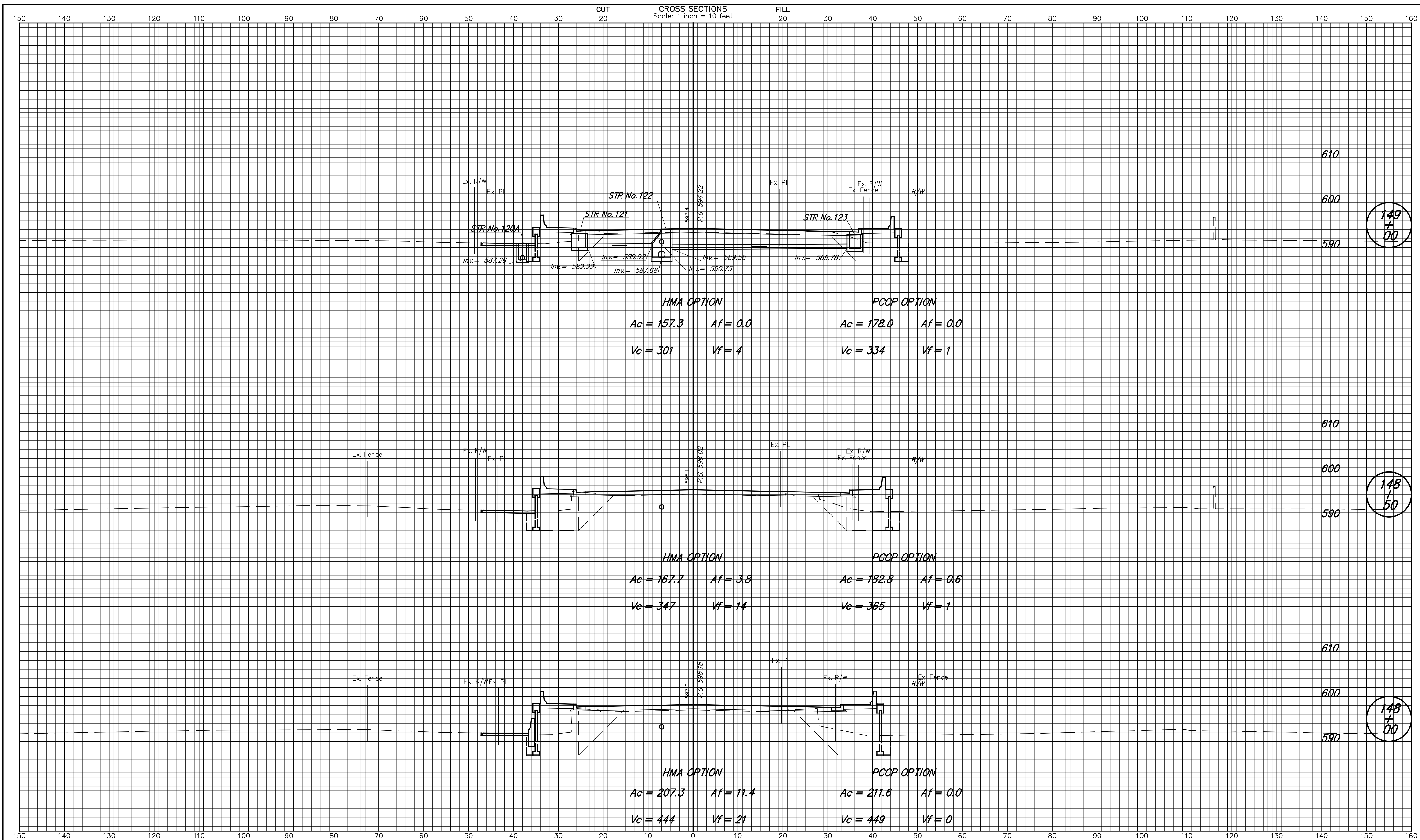
146
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DESIGNED: NRM CHECKED: DAD / WSL		DRAWN: RJC CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
						VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
						SURVEY BOOK B-33357	SHEETS 143 of 149 PROJECT NO. N881008



DESIGNED: NRM DRAWN: RJC CHECKED: DAD / WSL CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
		CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 144 of 149 PROJECT NO. N881008

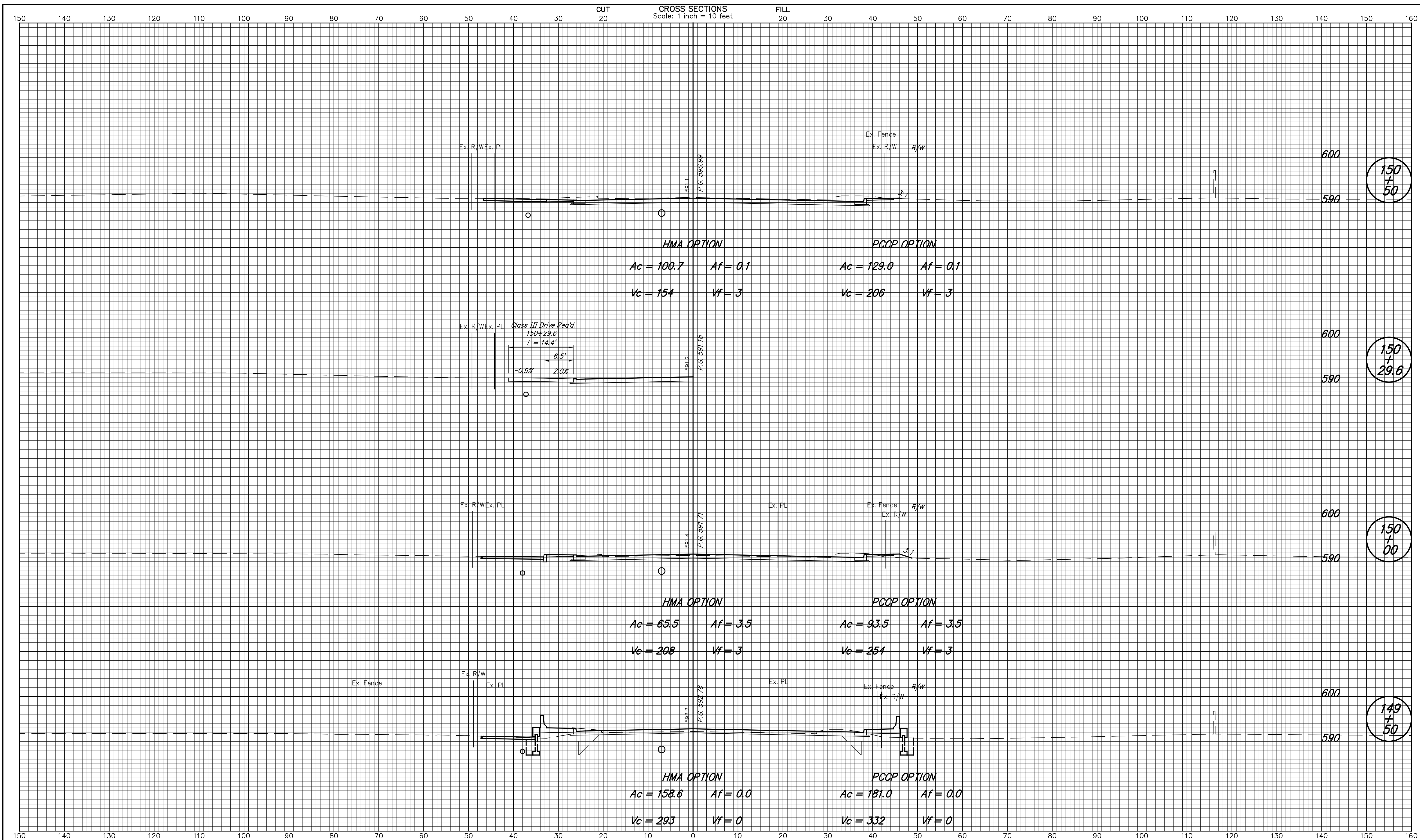


149
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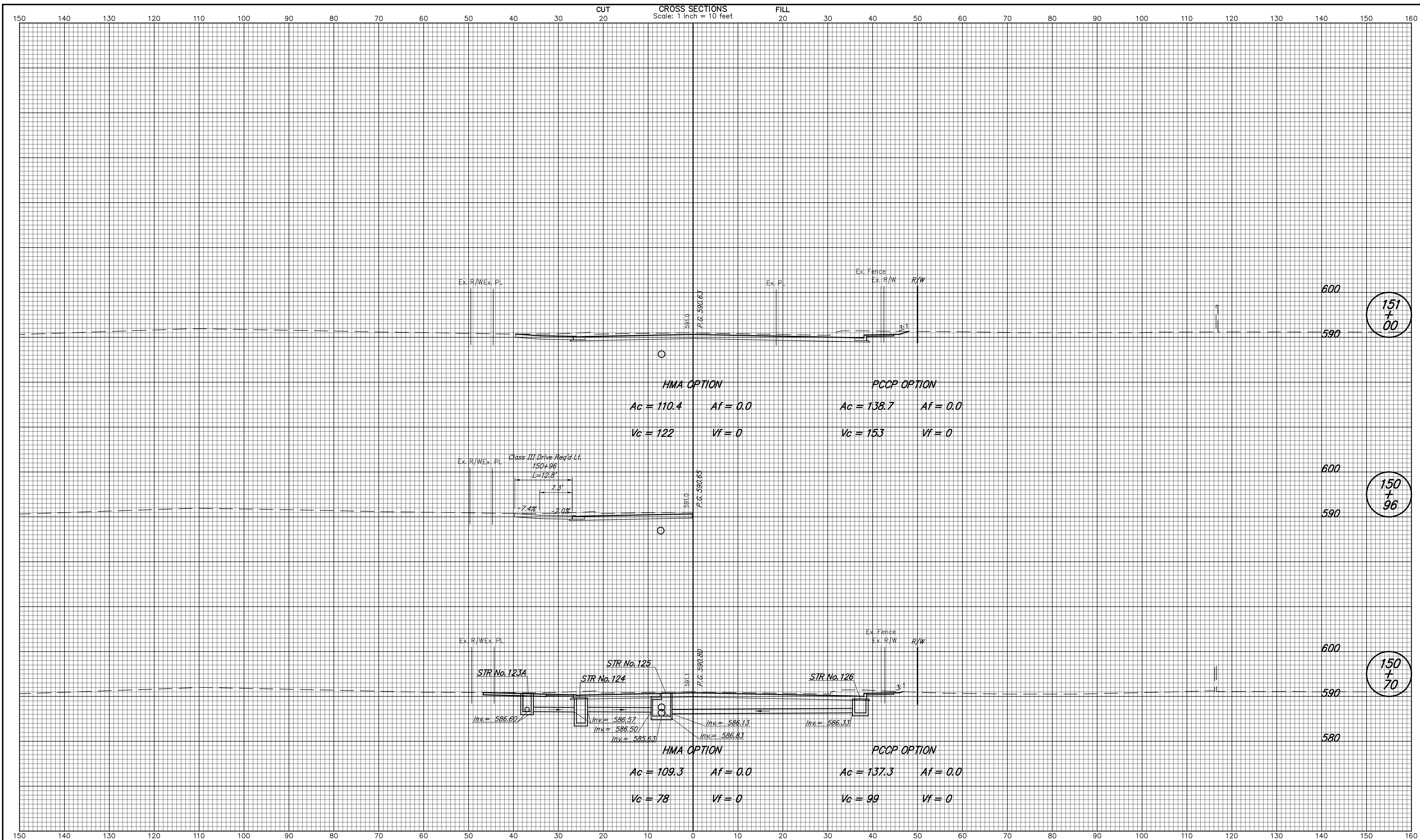
148
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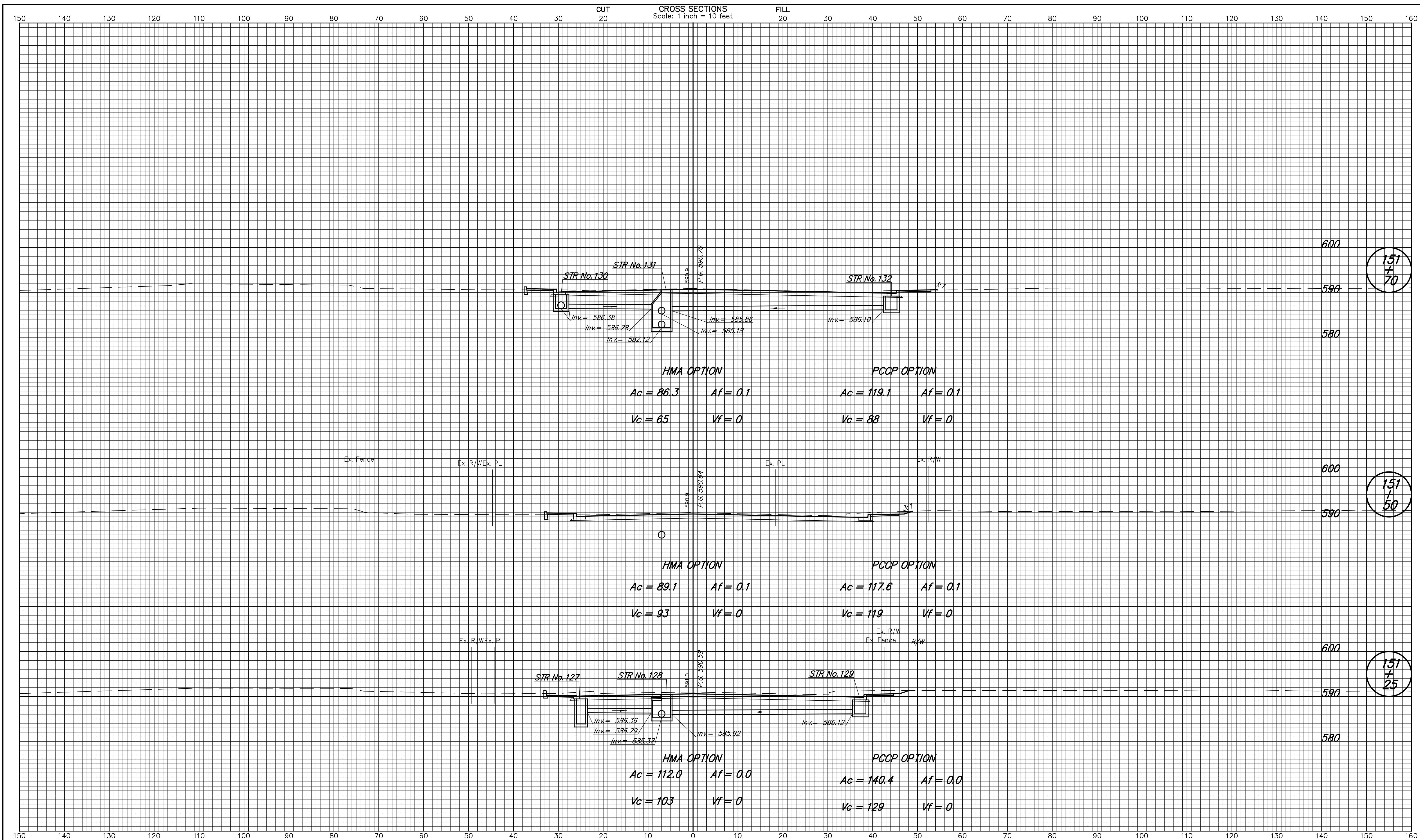
INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
CROSS SECTIONS LINE "PR-A"		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
DESIGNED: NRM	DRAWN: RJC	SURVEY BOOK	SHEETS
CHECKED: DAD / WSL	CHECKED: DAD / WSL	CONTRACT B-33357	145 of 149 PROJECT NO. N881008



INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210
CROSS SECTIONS LINE "PR-A"		SURVEY BOOK B-33357	SHEETS 146 of 149 PROJECT NO. N881008
DESIGNED: NRM CHECKED: DAD / WSL	DRAWN: RJC CHECKED: DAD / WSL		



DESIGNED: NRM CHECKED: DAD / WSL		DRAWN: RJC CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"		HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 152-45-02730
						VERTICAL SCALE 1" = 10'	DESIGNATION NO. 0014210
				SURVEY BOOK B-33357	SHEETS 147 of 149	PROJECT NO. N881008	

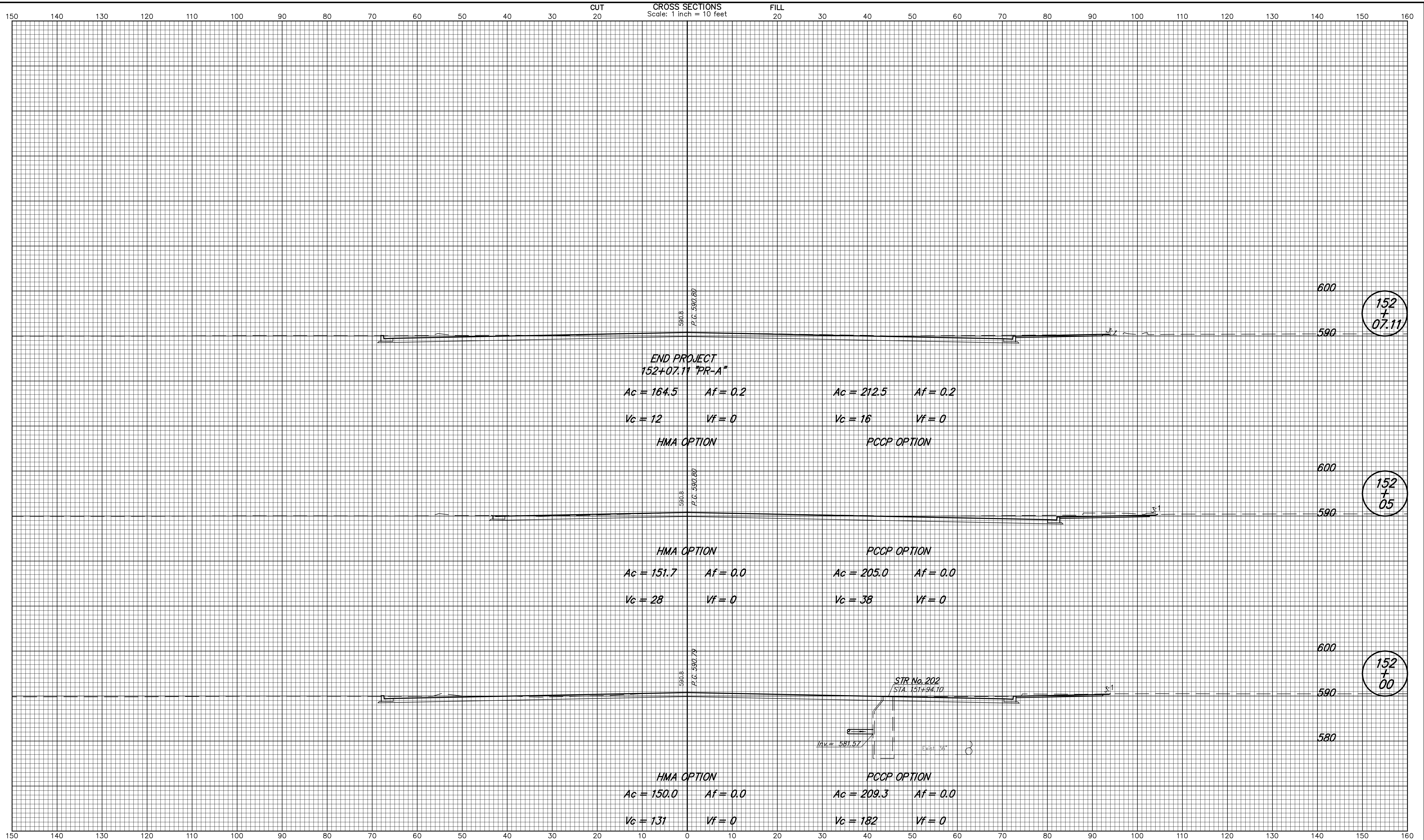


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<p>INDIANA DEPARTMENT OF TRANSPORTATION</p> <p>CROSS SECTIONS LINE "PR-A"</p>		<p>HORIZONTAL SCALE 1" = 10'</p> <p>VERTICAL SCALE 1" = 10'</p> <p>SURVEY BOOK CONTRACT B-33357</p>	<p>BRIDGE FILE 152-45-02730</p> <p>DESIGNATION NO. 0014210</p> <p>SHEETS 148 of 149</p> <p>PROJECT NO. N881008</p>
<p>DESIGNED: NRM</p> <p>CHECKED: DAD / WSL</p>	<p>DRAWN: RJC</p> <p>CHECKED: DAD / WSL</p>		



DESIGNED: NRM DRAWN: RJC CHECKED: DAD / WSL CHECKED: DAD / WSL		INDIANA DEPARTMENT OF TRANSPORTATION CROSS SECTIONS LINE "PR-A"	HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 10' SURVEY BOOK B-33357 BRIDGE FILE 152-45-02730 DESIGNATION NO. 0014210 SHEETS 149 of 149 PROJECT NO. N881008
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