PROJECT	DESIGNATION
1700135	1600744 (NB) & 1600750 (SB)
CONTRACT	BRIDGE FILE
R-41529	I65-016-04220 ENBL & ESBL

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-016-04220 ENBL & ESBL	TWIN CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGES	3 SPANS: 40'-0", 40'-0", 40'-0" SKEW: 27° LT.	BLUE LICK CREEK	℄ STRUCTURE Sta.403+66.08 "Q"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1600729	Bridge Rehabilitation for Structure I65-017-04222 ENBL
1600733	Bridge Rehabilitation for Structure I65-017-04222 ESBL
1600744	Bridge Rehabilitation for Structure I65-016-04220 ENBL
1600750	Bridge Rehabilitation for Structure I65-016-04220 ESBL
1700135 **(LEAD)**	I65 Roadway Reconstruction
2001593	Small Structure Pipe Lining for Structure CV I65-072-26.20
2001594	Small Structure Pipe Lining for Structure CV I65-072-25.05
2001595	Small Structure Pipe Lining for Structure CV I65-010-22.77
2001596	Small Structure Replacement for Structure CV I65-072-25.83
2001597	Small Structure Repair for Structure CV I65-010-22.65
2001598	Small Structure Repair for Structure CV I65-010-19.90
2001599	Small Structure Pipe Lining for Structure CV I65-010-18.35
2001600	Bridge Rehabilitation for Structure I65-021-09939 ASBL
2001601	Bridge Rehabilitation for Structure I65-021-09940 ANBL
2001603	Bridge Rehabilitation for Structure I65-023-04227
2001604	Bridge Rehabilitation for Structure I65-024-04229 BNBL
2001605	Bridge Rehabilitation for Structure I65-024-04229 BSBL

PART 5 OF 15

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

ROUTE: I-65 AT: RP 16+49 (I-65)

PROJECT NO. 1600744 & 1600750 P.E.

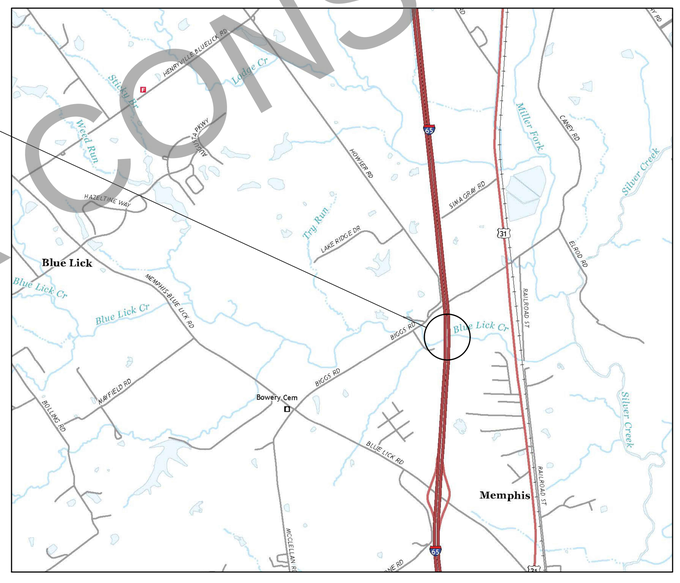
R/W

1600744 & 1600750 CONST.

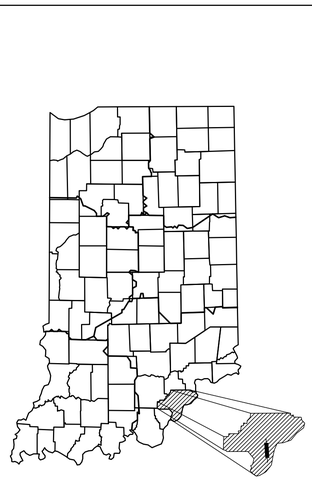
NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

Superstructure Replacement and Widening on I-65 over Blue Lick Creek
Located 2.68 Miles South of SR 160 in
Union Township, Clark County (Illinois Grant), Indiana

PROJECT LOCATION
Paving Exception:
Sta.402+51.51 "Q" to Sta.404+80.49 "Q" (NB & SB)



LOCATION MAP
SCALE: 1" = 2000'



PROJECT LOCATION SHOWN BY CLARK COUNTY

TRAFFIC DATA		
A.A.D.T.	(2023)	45,669 V.P.D.
A.A.D.T.	(2043)	49,452 V.P.D.
D.H.V	(2043)	3,398 V.P.H.
DIRECTIONAL DISTRIBUTION		49.7 %
TRUCKS		32.1 % A.A.D.T.
		22.5 % D.H.V.

DESIGN DATA	
DESIGN SPEED	70 M.P.H.
PROJECT DESIGN CRITERIA	COMPLETE RECONSTRUCTION (FREEWAY)
FUNCTIONAL CLASSIFICATION	INTERSTATE
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	FULL

LATITUDE: 38°30'5" N LONGITUDE: 85°46'14" W

BRIDGE LENGTH: 0.023 MI.
ROADWAY LENGTH: 0.015 MI.
TOTAL LENGTH: 0.038 MI.
MAX. GRADE: 0.46 %

HUC 12: 051401010803
HUC 14: 05140101140050

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS.

NOT FOR CONSTRUCTION

PLANS PREPARED BY:
BLN: BEAM·LONGEST·NEFF
8320 CRAIG STREET | INDIANAPOLIS, IN 46250
317.849.5832 | f: 317.841.4280 | WWW.B-L-N.COM

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

BRIDGE FILE
I65-016-04220 ENBL & ESBL
DESIGNATION
1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
	1 of 71
CONTRACT	PROJECT
R-41529	1700135

UTILITIES

*No Utilities Identified within Bridge Limits. See Des.No.1700135 for other utility.

811 Know what's below. Call before you dig.

INDIANA UNDERGROUND
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

REVISIONS

SHEET NO.	DATE	REVISED

INDEX

SHEET NO.	SHEET DESIGNATION	SUBJECT
1		TITLE SHEET
2		INDEX SHEET
3 - 4		TYPICAL CROSS SECTIONS (FOR INFORMATION ONLY)
5 - 6		MAINTENANCE OF TRAFFIC
7 - 8		PLAN & PROFILE - LINE "Q" (FOR INFORMATION ONLY)
9		SUPERELEVATION DIAGRAM (FOR INFORMATION ONLY)
10 - 12		SOIL BORINGS
13	C1	LAYOUT - LINE "Q"
14 - 17	C2 - C5	GENERAL PLAN
18 - 24	C6 - C12	BENT NO.1 DETAILS
25 - 31	C13 - C19	PIER NO.2 DETAILS
32 - 38	C20 - C26	PIER NO.3 DETAILS
39 - 45	C27 - C33	BENT NO.4 DETAILS
46 - 47	C34 - C35	FRAMING PLAN
48	C36	BEAM DETAILS
49	C37	BEARING ASSEMBLY DETAILS
50 - 59	C38 - C47	SUPERSTRUCTURE DETAILS
60 - 63	C48 - C51	SCREEDS
64 - 69	C52 - C57	APPROACH SLAB DETAILS
70		BRIDGE SUMMARY OF QUANTITIES
71		ROAD SUMMARY OF QUANTITIES

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
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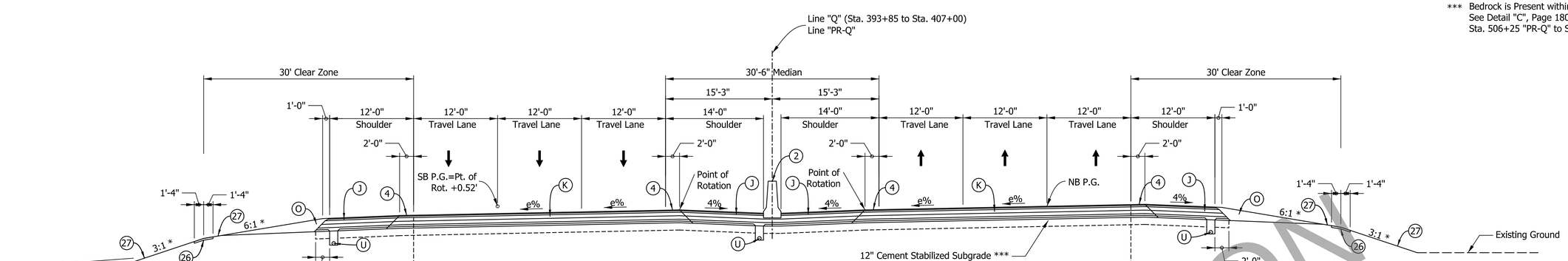
DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	2 of 71
CONTRACT	PROJECT
R-41529	1700135

*** Bedrock is Present within 5 ft of Existing Grade:
See Detail "C", Page 180
Sta. 506+25 "PR-Q" to Sta. 508+25 "PR-Q"



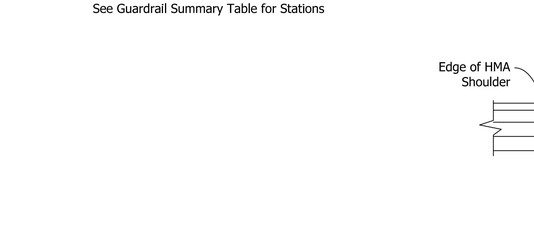
SB I-65 Typical Superelevation Section

Sta. 393+85.00 "Q" to Sta. 402+50.87 "Q", e_{ss} = 2.00%
Sta. 404+48.16 "Q" to Sta. 407+00.00 "Q", e_{ss} = 2.00%
Sta. 407+00.00 "PR-Q" to Sta. 417+10.00 "PR-Q", e_{ss} = 2.00%
Sta. 493+95.00 "PR-Q" to Sta. 514+05.00 "PR-Q", e_{ss} = 2.00%

NB I-65 Typical Superelevation Section

Sta. 393+85.00 "Q" to Sta. 402+84.81 "Q", e_{ss} = 2.00%
Sta. 404+79.85 "Q" to Sta. 407+00.00 "Q", e_{ss} = 2.00%
Sta. 407+00.00 "PR-Q" to Sta. 417+10.00 "PR-Q", e_{ss} = 2.00%
Sta. 493+95.00 "PR-Q" to Sta. 514+05.00 "PR-Q", e_{ss} = 2.00%

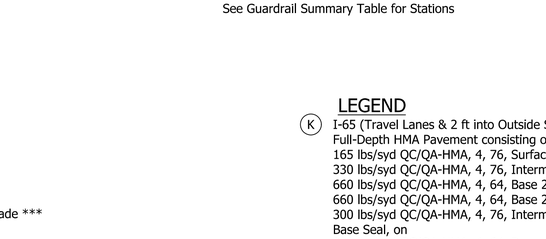
* For Actual Slope, See Cross Sections



SB I-65 MGS Guardrail Section

See Guardrail Summary Table for Stations

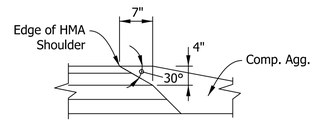
* For Actual Slope, See Cross Sections



NB I-65 MGS Guardrail Section

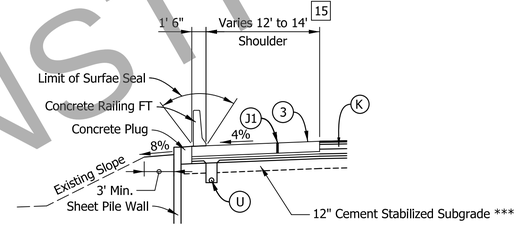
See Guardrail Summary Table for Stations

15 Equals 12'-0" from Sta. 412+32.93 to Sta. 412+00.00 "PR-Q"
Varies from 12'-0" @ Sta. 412+40.00 to 14'-0" @ Sta. 412+77.50 "PR-Q"
Equals 14'-0" from Sta. 412+77.50 to Sta. 416+25.00 "PR-Q"



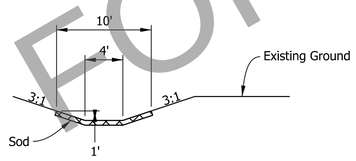
HMA SAFETY EDGE

(Not to Scale)

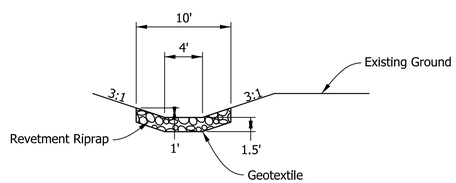


MOMENT SLAB

Sta. 412+32.93 to Sta. 416+25.00 "PR-Q



TYPICAL SODDED DITCH DETAIL



TYPICAL RIPRAP DETAIL

LEGEND

- (K) I-65 (Travel Lanes & 2 ft into Outside Shoulder, Aux. Lanes, Gore Areas)
  Full-Depth HMA Pavement consisting of
  165 lbs/syd QC/QA-HMA, 4, 76, Surface 9.5 mm - SMA, on
  330 lbs/syd QC/QA-HMA, 4, 76, Intermediate 19.0 mm, on
  660 lbs/syd QC/QA-HMA, 4, 64, Base 25.0 mm, on
  660 lbs/syd QC/QA-HMA, 4, 64, Base 25.0 mm, on
  300 lbs/syd QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm (Drainage Layer), on Base Seal, on
  330 lbs/syd QC/QA-HMA, 4, 64, Base, 19.0 mm (Separation Layer)
- (J) I-65 (Entire Median Shoulder & Remaining Outside Shoulder)
  Full-Depth HMA Pavement Consisting of
  165 lbs/syd QC/QA-HMA, 3, 70, Surface 9.5 mm, on
  330 lbs/syd QC/QA-HMA, 3, 70, Intermediate 19.0 mm, on
  660 lbs/syd QC/QA-HMA, 2, 64, Base 25.0 mm, on
  660 lbs/syd QC/QA-HMA, 2, 64, Base 25.0 mm, on
  300 lbs/syd QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm (Drainage Layer), on Base Seal, on
  330 lbs/syd QC/QA-HMA, 2, 64, Base, 19.0 mm (Separation Layer)
- (G) MGS W-Beam Guardrail
- (J1) Reinforced Concrete Moment Slab, 13.5"
- (O) Compacted Aggregate, No. 53
- (U) Underdrain (See Underdrain Details)
- (2) Concrete Median Barrier, 45"
- (2A) Concrete Median Barrier, Modified
- (3) Milled PCCP Corrugations
- (4) Milled HMA Corrugations, Sinusoidal
- (26) Sodding
- (27) Seed Mixture, R

NOT FOR CONSTRUCTION

FOR INFORMATION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: HMM | DRAWN: VK
CHECKED: DJG | CHECKED: DJG

INDIANA
DEPARTMENT OF TRANSPORTATION

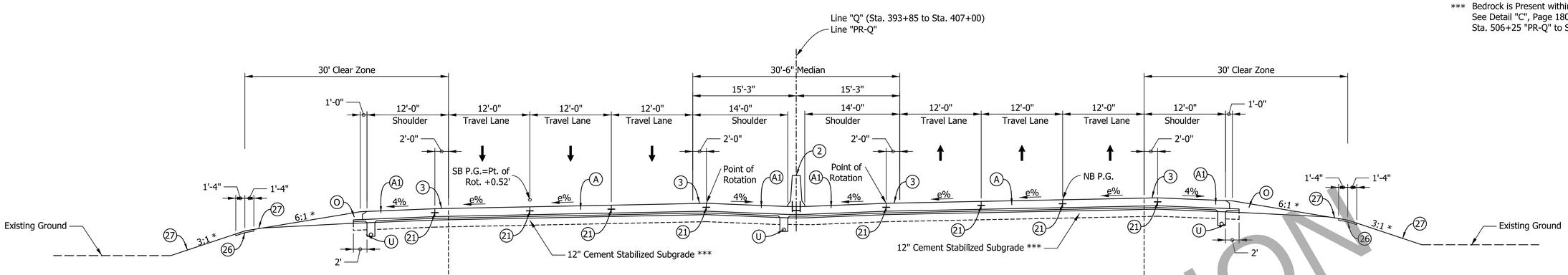
TYPICAL CROSS SECTIONS
HMA ALTERNATE

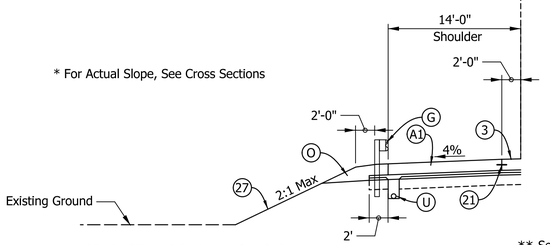
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1600744 (NB) & 1600750 (SB)

SURVEY BOOK	SHEETS
Electronic	3 of 71
CONTRACT	PROJECT
R-41529	1700135

10/20/20288:13:34 AM P:\200035 - I65 ATL\09Road\04 Design files\02 DGN\Plans\200035_03_Sht_Typical_05.dgn

*** Bedrock is Present within 5 ft of Existing Grade:
See Detail "C", Page 180
Sta. 506+25 "PR-Q" to Sta. 508+25 "PR-Q"





* For Actual Slope, See Cross Sections

SB I-65 MGS Guardrail Section

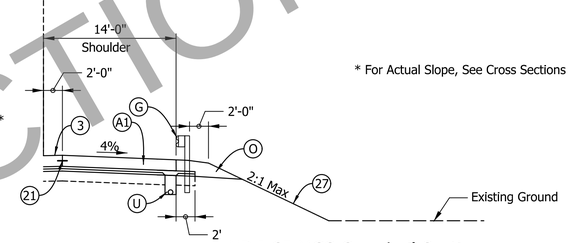
See Guardrail Summary Table for Stations

SB I-65 Typical Superelevation Section

Sta. 393+85.00 "Q" to Sta. 402+10.87 "Q", $e_{=}$ = 2.00%
Sta. 402+10.87 "Q" to Sta. 402+50.87 "Q", $e_{=}$ = 2.00%**
Sta. 404+47.20 "PR-Q" to Sta. 404+87.20 "PR-Q", $e_{=}$ = 2.00%**
Sta. 404+87.20 "PR-Q" to Sta. 407+00.00 "PR-Q", $e_{=}$ = 2.00%
Sta. 407+00.00 "PR-Q" to Sta. 417+10.00 "PR-Q", $e_{=}$ = 2.00%
Sta. 493+95.00 "PR-Q" to Sta. 514+05.00 "PR-Q", $e_{=}$ = 2.00%

NB I-65 Typical Superelevation Section

Sta. 393+85.00 "Q" to Sta. 402+44.41 "Q", $e_{=}$ = 2.00%
Sta. 402+44.41 "Q" to Sta. 402+84.41 "Q", $e_{=}$ = 2.00%**
Sta. 404+79.85 "PR-Q" to Sta. 405+19.85 "PR-Q", $e_{=}$ = 2.00%**
Sta. 405+19.85 "PR-Q" to Sta. 407+00.00 "PR-Q", $e_{=}$ = 2.00%
Sta. 407+00.00 "PR-Q" to Sta. 417+10.00 "PR-Q", $e_{=}$ = 2.00%
Sta. 493+95.00 "PR-Q" to Sta. 514+05.00 "PR-Q", $e_{=}$ = 2.00%



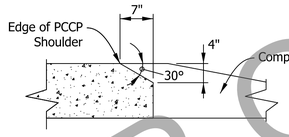
* For Actual Slope, See Cross Sections

NB I-65 MGS Guardrail Section

See Guardrail Summary Table for Stations

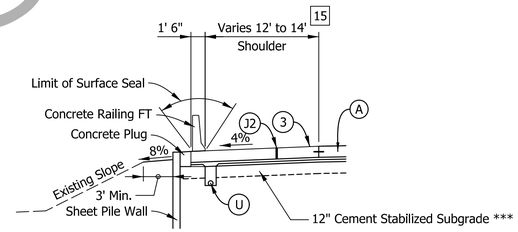
** Section is to be constructed per
Standard Drawing No. E 503-BATJ-02.

(W) Reinforced Concrete Bridge Approach
(X) Jointed Reinforced Concrete Pavement, 12 in.
(Z) Terminal Joint, Type PCCP



PCCP SAFETY EDGE

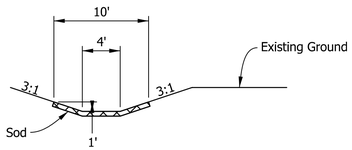
(Not to Scale)



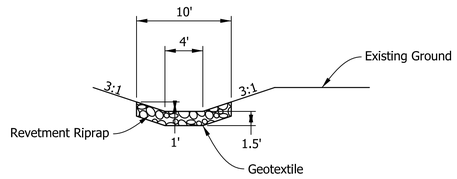
MOMENT SLAB

Sta. 412+32.93 to Sta. 416+25.00 "PR-Q

15 Equals 12'-0" from Sta. 412+32.93 to Sta. 412+00.00 "PR-Q"
Varies from 12'-0" @ Sta. 412+40.00 to 14'-0" @ Sta. 412+77.50 "PR-Q"
Equals 14'-0" from Sta. 412+77.50 to Sta. 416+25.00 "PR-Q"



TYPICAL SODDED DITCH DETAIL



TYPICAL RIPRAP DETAIL

LEGEND

(A) I-65 (Travel Lanes & 2 ft into Outside Shoulder, Aux. Lanes, Gore Areas)
Full-Depth PCCP Pavement consisting of
Plain Jointed QC/QA PCCP, 14 in. (w/ D-1 joints 15 Ft. on center), on
300 lbs/syd QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm (Drainage Layer), on
Base Seal, on
330 lbs/syd QC/QA-HMA, 4, 64, Base 19.0 mm (Separation Layer)

(A1) I-65 (Entire Median Shoulder & Remaining Outside Shoulder)
Full-Depth PCCP Pavement consisting of
Plain Jointed QC/QA PCCP, 14 in. (w/ D-1 joints 15 Ft. on center), on
300 lbs/syd QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm (Drainage Layer), on
Base Seal, on
330 lbs/syd QC/QA-HMA, 2, 64, Base 19.0 mm (Separation Layer)

(G) MGS W-Beam Guardrail
(J2) Reinforced Concrete Moment Slab, 14 in.
(O) Compacted Aggregate, No. 53
(U) Underdrain (See Underdrain Details)
(2) Concrete Median Barrier, 45"
(2A) Concrete Median Barrier, Modified
(3) Milled PCCP Corrugations, Conventional
(21) Longitudinal Construction Joint
(26) Sodding
(27) Seed Mixture, R

NOT FOR CONSTRUCTION

FOR INFORMATION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: AMD | DRAWN: VK
CHECKED: DJG | CHECKED: DJG

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
PCCP ALTERNATE

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1600744 (NB) & 1600750 (SB)

SURVEY BOOK	SHEETS
Electronic	4 of 71
CONTRACT	PROJECT
R-41529	1700135

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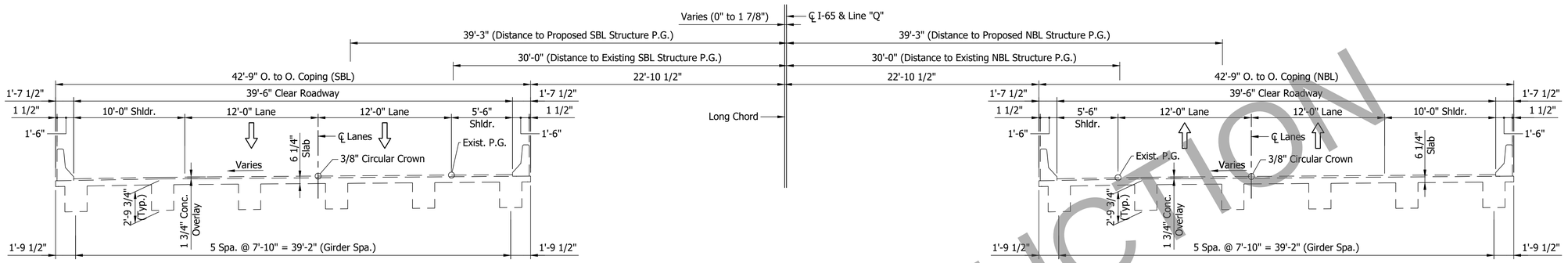
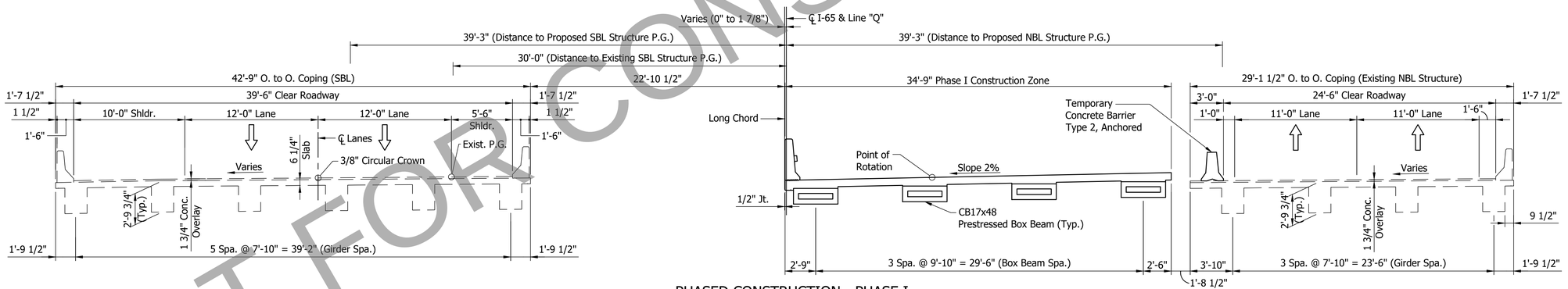


TYPICAL SECTION - EXISTING

Scale: 3/16" = 1'-0"



PHASED CONSTRUCTION - PHASE I

Scale: 3/16" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For Additional Maintenance of Traffic Details, see Road Plan Set Part 1.

For Additional Road Construction Details, see Road Plan Set Part 2.

FOR INFORMATION ONLY

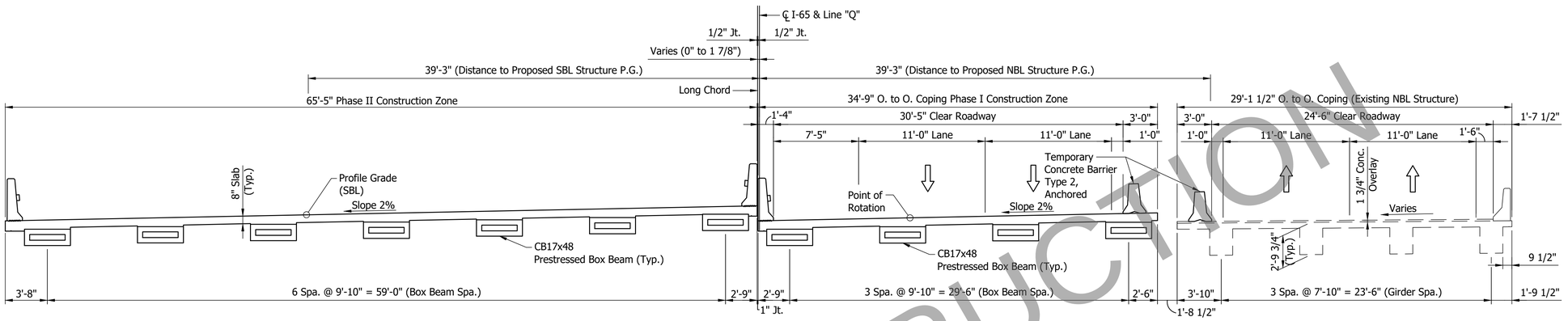
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: NW
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

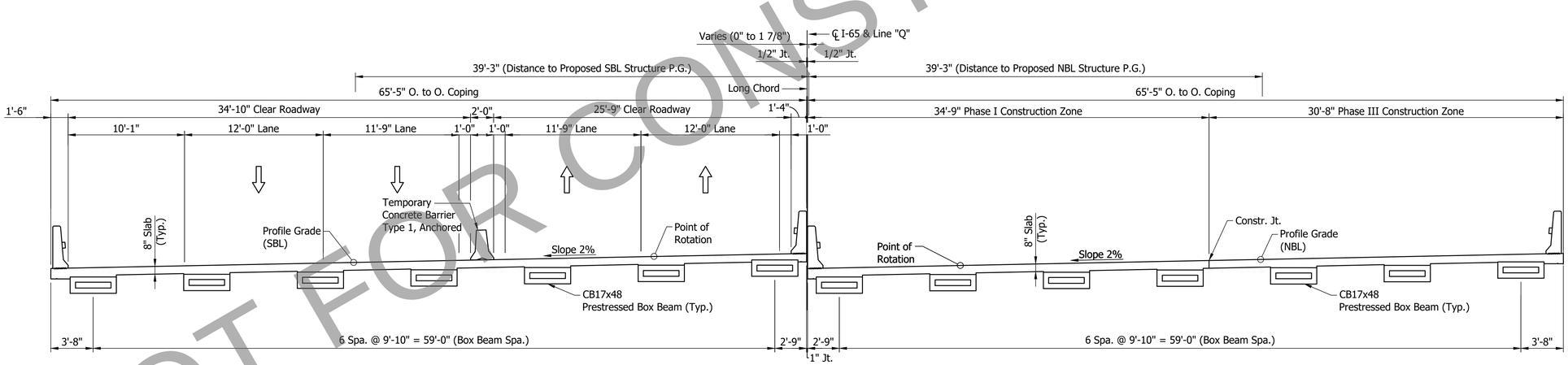
MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	5 of 71
CONTRACT	PROJECT
R-41529	1700135



PHASED CONSTRUCTION - PHASE II

Scale: 3/16" = 1'-0"



PHASED CONSTRUCTION - PHASE III

Scale: 3/16" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For Additional Maintenance of Traffic Details, see Road Plan Set Part 1.

For Additional Road Construction Details, see Road Plan Set Part 2.

FOR INFORMATION ONLY

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DESIGNED: LLS	DRAWN: NW
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	6 of 71
CONTRACT	PROJECT
R-41529	1700135

405+00

410+00

415+00

Survey 220 of the Illinois Grant

Survey 237 of the Illinois Grant

CURVE # 1/ #2	
PI = 401+37.60 "Q"	PI = 411+11.19 "PR-Q"
Delta = 5°37'43" LT	Delta = 3°55'30" LT
D = 0°30'00"	D = 0°28'39"
R = 11,459.16'	R = 12,000.00'
T = 563.30	T = 411.19'
L = 1,125.70'	L = 822.05'
E = 7.04'	E = 7.04'
SE = 2.00%	SE = 2.00%
D.S. = 70 m.p.h.	D.S. = 70 m.p.h.

GRAF RICHARD L & CATHLEEN M

Staggs Michael Lee & Vicki & Suncire Robin

STRUCTURE:
I65-016-04220 ENBL
I65-016-04220 ESBL
DES. NO. 1600744 & 1600750
BRIDGE WIDENING &
SUPERSTRUCTURE REPLACEMENT
(See Part 5)

BRIDGE NO.: I65-016-04221 C
NO WORK REQUIRED

BEGIN PAVING EXCEPTION
STA. 402+50.87 "Q", SB

℄ Structure
Sta. 403+66.08 "Q"
Skew: 27° Lt.

POC 407+00.00 "Q" (BK) =
PCC 407+00.00 "PR-Q" (AH)

App. EX. L.A. R/W

Const. Limits

END PAVING EXCEPTION
STA. 404+47.20 "Q", SB

Ex. Low Clearance: 25.22'
Prop Low Clearance: 24.84'

Line "Q"

Line "PR-Q"

N3°41'13"E "Q"

SB I-65

NB I-65

Str. No. 112
Str. No. 113
Str. No. 114
Str. No. 115
Str. No. 116
Str. No. 117
Str. No. 118
Str. No. 119
Str. No. 120
Str. No. 121
Str. No. 122
Str. No. 123
Str. No. 124
Str. No. 125
Str. No. 126
Str. No. 127
Str. No. 128
Str. No. 129
Str. No. 129A
Str. No. 130
Str. No. 130A
Str. No. 131
Str. No. 131A
Str. No. 132
Str. No. 133
Str. No. 134
Str. No. 134A
Str. No. 135
Str. No. 135A
Str. No. 136
Str. No. 137
Str. No. 138
Str. No. 139
Str. No. 41

12" CMP
12" RCP
24" RCP
Blacktop
Stone
Grass
Gravel
Conc. 852
Conc. 864

BEGIN PAVING EXCEPTION
STA. 402+84.81 "Q", NB

PI 401+37.15 "Q"

PI 405+34.87 "Q"

END PAVING EXCEPTION
STA. 404+79.85 "Q", NB

Bluelick Creek

App. PI

Const. Limits

App. EX. L.A. R/W

PI 411+11.19 "PR-Q"

Ex. Low Clearance: 22.74'
Prop Low Clearance: 22.71'

UNT to Bluelick Creek
Stream Impact = 161 Lft

GRAF RICHARD L & CATHLEEN M

PI = 405+34.87 "Q"
Delta = 9°35'00" LT
D = 0°30'00"
R = 11459.16'
T = 960.57'
L = 1916.67'
E = 40.19'

UNT to Bluelick Creek
Stream Impact = 224 Lft

POC 412+59.67 "PR-Q" =
POT 11+99.85 "S-5-Q"

Line "S-5-Q"

N57°07'21"E "S-5-Q"

App. Section Line

App. PI

UNT to Bluelick Creek

PT 415+22.05 "PR-Q"

Wetland "2"

N5°52'00"W "PR-Q"

BIGGS ROAD

Graf Properties Llc

OH-E

OH-T

+43.94, 64.71' Delineator Post

+30.54, 65.65' Delineator Post

+55.09, 71.96' Sign-dbl post watch for ice on bridges

+80.58, 115.07' Hand Rail
+81.37, 112.35' Hand Rail
+84.76, 95.5' Riprap
+85.49, 101.83' Riprap
+86.15, 86.81' Hand Rail
+86.63, 72.66' Riprap
+00.15, 86.81' Hand Rail
+00.63, 72.66' Riprap
+15.21, 63.74' Riprap
+23.97, 99.66' Riprap
+24.89, 93.36' Hand Rail
+25.70, 84.45' Riprap
+27.20, 101.63' Riprap
+28.48, 84.45' Riprap
+29.13, 64.25' Delineator Post
+49.03, 49.25' Hand Rail
+49.73, 46.01' Hand Rail
+76.16, 68.08' Sign-dbl post bigge rd 16+66

+67.65, 68.79' I

+55.09, 66.76' Delineator Post

+57.46, 63.4' Mon.

+48.53, 8.51' Hand Rail
+62.31, 70.84' Sign-dbl post biggs rd
+67.57, 62.5' Hand Rail
+69.25, 62.5' Riprap
+69.57, 56.68' Hand Rail
+69.83, 63.36' Riprap
+70.25, 115.18' Hand Rail
+70.69, 118.85' Riprap
+06.57, 117.85' Hand Rail
+10.01, 83.46' Hand Rail
+21.01, 110.10' Hand Rail
+36.86, 117.29' Hand Rail
+37.43, 117.14' Hand Rail

+84.62, 94.11' Riprap
+84.89, 90.51' Riprap
+85.58, 90.51' Riprap
+87.22, 90.35' Riprap

+40.61, 65.32' Mon.

Notes:
All Topo described from Line "Q".
Line "Q" to be Constructed to Sta. 407+00.00.
Line "PR-Q" to be Constructed from Sta 407+00.00.
See Geometric Tie Sheets for Line "Q".

854 Mile Post 16.5
Northing: 246365.7084
Easting: 738452.2754
AZ 339° 18.31'
AZ 183° 14.57'
Guardrail Post
AZ 95° 40.22'
Corner of Catch Basin
Bridge Deck
SB I-65
LINE "Q" STA. 404+76.34 OFFSET 61.96 LT

853 Mag Nail
Northing: 246840.5731
Easting: 738433.8294
AZ 359° 20.95'
AZ 178° 86.08'
End of Guardrail
AZ 86° 77.60'
Guardrail Post
SB I-65
LINE "Q" STA. 409+54.21 OFFSET 63.67 LT

852
Northing: 247319.9388
LINE "Q" STA. 414+36.46 OFFSET 61.16 LT

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
STA. 401+00.00 TO STA. 416+00.00

DESIGNED: AMD
DRAWN: JJP
CHECKED: DJG
CHECKED: DJG

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N.A.	1600744 (NB) & 1600750 (SB)

SURVEY BOOK	SHEETS
Electronic	7 of 71
CONTRACT	PROJECT
R-41529	1700135

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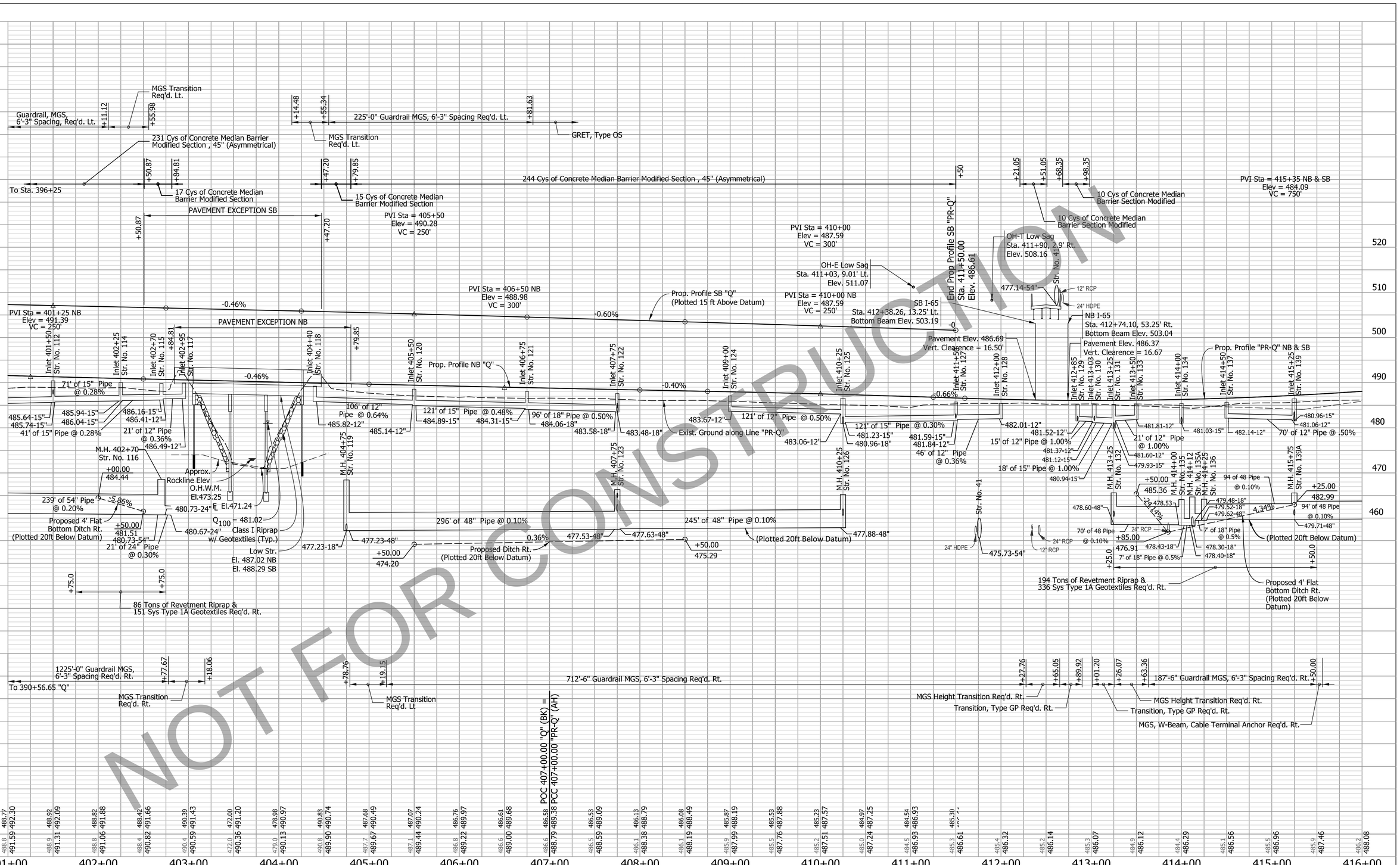

NOT FOR CONSTRUCTION

FOR INFORMATION

FOR INFORMATION ONLY
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INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: AMD	DRAWN: JJP
CHECKED: DJG	CHECKED: DJG

PLAN AND PROFILE
STA. 401+00.00 TO STA. 416+00.00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1" = 10'	1600744 (NB) & 1600750 (SB)
SURVEY BOOK	SHEETS
Electronic	8 of 71
CONTRACT	PROJECT
R-41529	1700135

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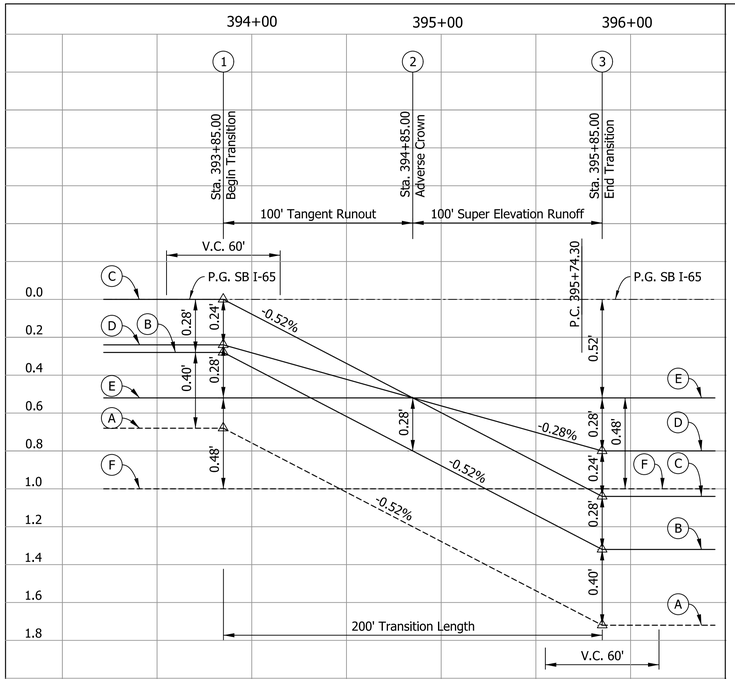
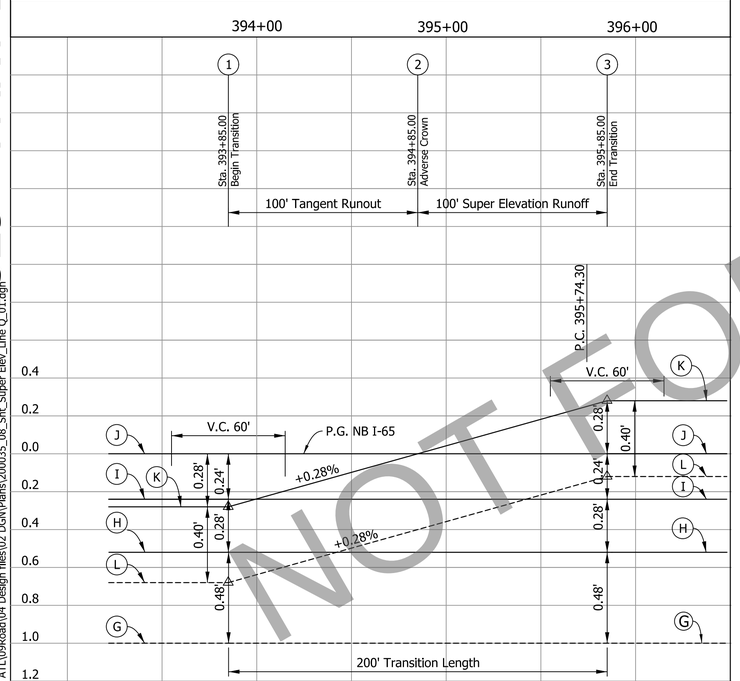
R-41529 - PART 2 OF 15



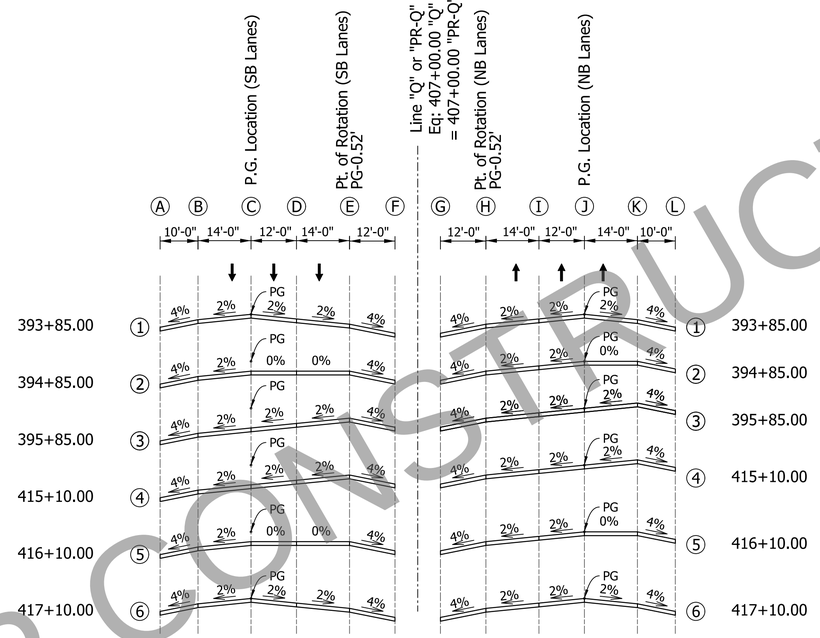


Southbound Lanes

Compound Curve

P.I. Sta. 405+34.87 "Q"
R = 11,459.16'
e = 2.00%
(Curve to left)

P.I. Sta. 411+11.19 "PR-Q"
R = 12,000.00'
e = 2.00%
(Curve to left)



PG = Profile Grade

Note: Dashed Lines are Joints

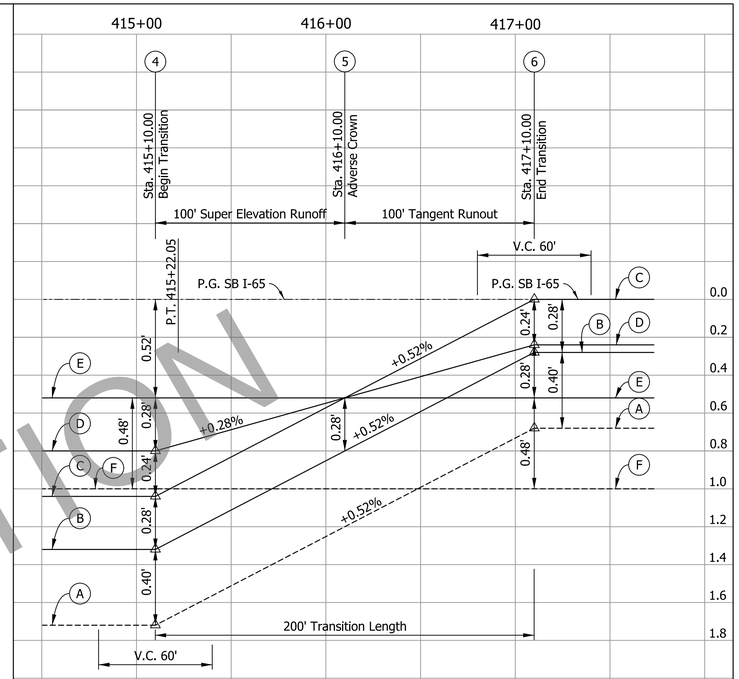
Northbound Lanes

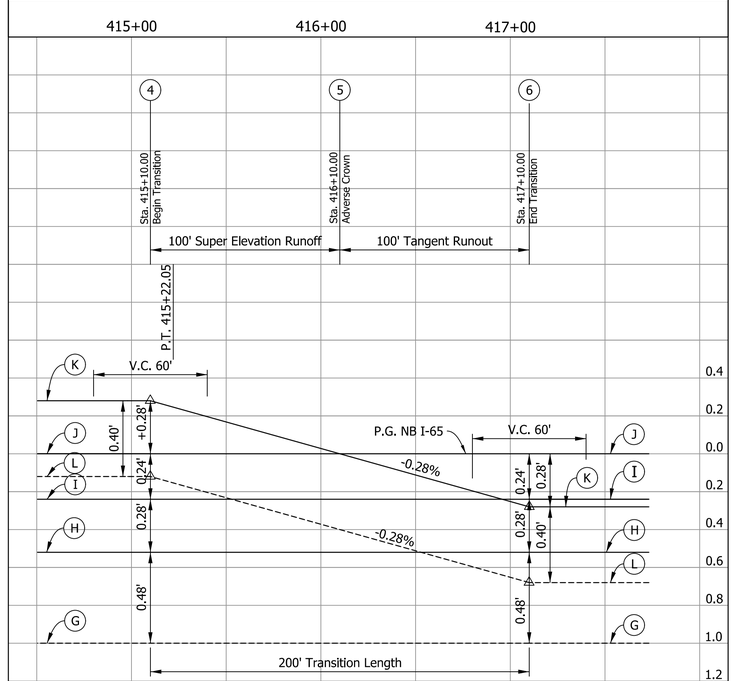
Compound Curve

P.I. Sta. 405+34.87 "Q"
R = 11,459.16'
e = 2.00%
(Curve to left)

P.I. Sta. 411+11.19 "PR-Q"
R = 12,000.00'
e = 2.00%
(Curve to left)

Not To Scale





NOT FOR CONSTRUCTION

FOR INFORMATION

FOR INFORMATION ONLY
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DESIGNED: VK | DRAWN: VK
CHECKED: DJG | CHECKED: DJG

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DIAGRAM
CURVE NO. 1 & CURVE NO. 2

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1" = 0.4'	1600744 (NB) & 1600750 (SB)

SURVEY BOOK	SHEETS
Electronic	9 of 71
CONTRACT	PROJECT
R-41529	1700135

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BORING NO. TB-1

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation
ROUTE NO. : I-65 COUNTY : Clark
LOCATION : I-65 over Blue Lick Creek
DES NO. : 1600744 (NB) &1600750 (SB) PROJECT NO. :

BORING NO. : TB- 1
SHEET : 1 OF 1
DATE STARTED : 02-24-21
DATE COMPLETED : 02-24-21
CTL PROJECT NO : 20050105ND

Boring Elevation : 491.0 feet Boring Depth : 17.8 feet
Latitude : 38.501574 Station : 402+81
Longitude : -85.770758 Offset : 13.0 feet Rt
Line : "Q"

Boring Method : HSA
Rig Type : CME-550 ATV
Casing Diameter : 3.25" I.D.
Core Size : ---

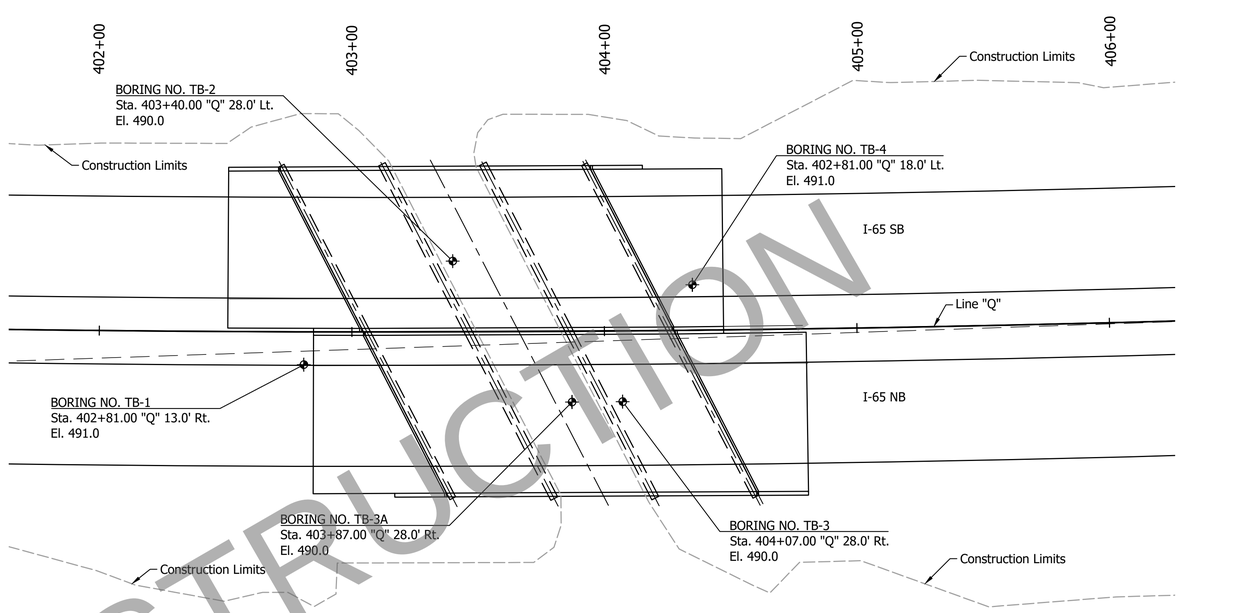
Hammer : Automatic
Hammer Efficiency : 90.7
Driller/Inspector : JS/DW
Temperature : 40° F
Weather : Overcast

GROUNDWATER: ▽ Encountered at Dry ▽ At completion Dry ▼ 3.0 feet After 24 hours ⊠ Caved in at 3.7 feet

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (tsf)	Atterberg Limits LL	PL	PI
490.7		TOPSOIL (4") (Visual)	0.3										
	2.5			SS-1	3 4 4	8	89	17.5			33	20	12
	5.0			SS-2	2 3 4	7	78	16.2					
		Brown, Moist, Medium Stiff, SILTY CLAY LOAM A-6 (11), Lab 1											
	7.5			SS-3	4 5 5	10	100	14.0					
	10.0			SS-4	3 3 3	6	89	16.6					
478.5	12.5		12.5										
	15.0	Brown, Moist, Soft, SILT (Visual)		SS-5	2 2 2	4	0	19.6					
474.0	17.5		17.0										
473.2		Gray, Highly Weathered, Very Soft, SHALE	17.8	SS-6	50/3"		11	14.5					
		Auger refusal at 17.8 feet											
		Bottom of Boring at 17.8 feet											
	20.0	Boring backfilled in accordance with INDOT requirements.											

CTL ENGINEERING
CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		



BORING PLAN
Scale: 1" = 30'

NOT FOR CONSTRUCTION

PILE LOADING FOR GEOTECHNICAL TESTING

	BENT NO.1	BENT NO.2	BENT NO.3	BENT NO.4
Pile Size, Type & Grade	HP 12x74 50 ksi	Spread Footing	Spread Footing	HP 12x74 50 ksi
Factored Design Load Q_F (Kips)	220	N/A	N/A	220
Factored Design Soil Resistance $R_{R\ max}$ (Kips)	220	N/A	N/A	220
Resistance Factor Φ_{dyn}	0.55	N/A	N/A	0.55
Downdrag Load, DD (Kips)*	0	N/A	N/A	0
Nominal Soil Resistance $R_{n\ max}$ (Kips)	400	N/A	N/A	400
Downdrag Friction R_{sdd} (Kips)	0	N/A	N/A	0
Scour Zone Friction $R_{s\ scour}$ (Kips)	0	N/A	N/A	0
Relaxation in Shale (Kips)	75	N/A	N/A	75
Nominal Driving Resistance, R_{ndr} (Kips)	475	N/A	N/A	475
Testing Method	By Formula, Standard Specifications 701.05(a)			

Note:
* In calculations of Downdrag Loads, $\gamma_p = 1.4$

STANDARD PENETRATION TEST:

Driving 2" O.D. Split-Barrel Sampler 18" with a 140 lb. Hammer falling 30". Blow counts indicate number of blows per 6" interval. First 6" for setting Sampler.

FOR INFORMATION ONLY
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DESIGNED: LLS DRAWN: MEN
CHECKED: APL CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
LINE "Q"

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1"=30'	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	10 of 71
CONTRACT	PROJECT
R-41529	1700135

BORING NO. TB-2

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation
ROUTE NO. : I-65 COUNTY : Clark
LOCATION : I-65 over Blue Lick Creek
DES NO. : 1600744 (NB) &1600750 (SB) PROJECT NO. :

BORING NO. : TB- 2
SHEET : 1 OF 2
DATE STARTED : 02-25-21
DATE COMPLETED : 02-26-21
CTL PROJECT NO : 20050105IND

Boring Elevation : 490.0 feet Boring Depth : 33.5 feet
Latitude : 38.501666 Station : 403+40
Longitude : -85.770923 Offset : 28.0 feet Lt
Line : "Q"

Boring Method : HSA
Rig Type : CME-550 ATV
Casing Diameter : 3.25" I.D.
Core Size : 2" NQ

Hammer : Automatic
Hammer Efficiency : 90.7
Driller/Inspector : JS/DW
Temperature : 30° F
Weather : Clear

GROUNDWATER: ▽ Encountered at 17.3 feet ▽ At completion 17.3 feet

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
489.3		CEMENT CONCRETE (8") (Visual)	0.7										
	2.5												
	5.0	Test boring performed through bridge deck. Bedrock encountered below water at 17.4 feet.											
	7.5												
	10.0												
	12.5												
	15.0												
472.6	17.5		17.4										
471.5		Gray, Highly Weathered, Very Soft, SHALE	18.5										
	20.0	Dark Brownish Grey, Thin Bedding, Slightly Weathered, Moderately Hard, SHALE 18.6', Mechanical Break 19', J, 1°, PL, VC, SR 19.2', J, 1°, IR, VC, R 19.6', J, 1°, PL, VC, SR 20', J, 1°, PL, VC, SR	RC-1 ROD= 55%			100							
	22.5	21.5', J, 2°, PL, VC, SR 21.8', J,1°, PL, VC, s 22.3', J,1°, PL, VC, SR											

Continued on next page

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

BORING NO. TB-2 (CONT'D.)

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation

BORING NO. : TB- 2
SHEET : 2 OF 2

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
		22.9', J,1°, IR, VC, R											
	25.0	24.3', J, 2°, PL, VC, SR 25.0', J, 1°, PL, VC, SR 25.3', J, 3°, IR, VC, R		RC-2 RQD= 83%			100						
		26.3', J, 2°, IR, VC, VR											
	27.5	27.0', J, 3°, Wavy , VC, R 27.5', J, 1°, PL, VC, SR											
461.5		Dark Brownish Grey, Thin Bedding, Slightly Weathered, Moderately Hard, SHALE (Trace Pyrite throught the rock core)	28.5										
	30.0	29.6', J, 2°, IR, VC, R 30.0', J, 2°, PL, VC, S 30.1', J, 2°, PL, VC, R											
		30.9', J, 1°, PL, VC, SR		RC-3 RQD= 78%			93						
	32.5	31.7', J, 3°, Wavy, VC, SR											
		32.8', J, 4°, PL, VC, SR											
456.5		33.2', J, 3°, IR, VC, SR 33.3' , J, 3°, PL, VC, SR	33.5										
	35.0	Bottom of Boring at 33.5 feet Boring backfilled in accordance with INDOT requirements.											

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

BORING NO. TB-3

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation
ROUTE NO. : I-65 COUNTY : Clark
LOCATION : I-65 over Blue Lick Creek
DES NO. : 1600744 (NB) &1600750 (SB) PROJECT NO. :

BORING NO. : TB- 3
SHEET : 1 OF 1
DATE STARTED : 02-26-21
DATE COMPLETED : 02-26-21
CTL PROJECT NO : 20050105IND

Boring Elevation : 490.0 feet Boring Depth : 25.0 feet
Latitude : 38.501877 Station : 404+07
Longitude : -85.770708 Offset : 28.0 feet Rt
Line : "Q"

Boring Method : HSA
Rig Type : CME-550 ATV
Casing Diameter : 3.25" I.D.
Core Size : ---

Hammer : Automatic
Hammer Efficiency : 90.7
Driller/Inspector : JS/DW
Temperature : 25° F
Weather : Clear

GROUNDWATER: ▽ Encountered at 18.0 feet ▽ At completion --

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
489.3		CEMENT CONCRETE (8") (Visual)	0.7										
	2.5												
	5.0	Brown, Moist, SANDY LOAM (FILL) with Traces of Gravel and Cobbles (Visual)											
	7.5												
	10.0												
	12.5												
476.5			13.5		6								
	15.0			SS-1	8	14	33	6.0					
		Brown, Moist, Medium Dense to Very Loose, SANDY LOAM with Crushed Stone (Visual)			6								
				SS-2	4	4	11	28.6					
	17.5				2								
471.0			19.0		6								
		Gray, Highly Weathered, Highly Fractured, Very Soft, SHALE		SS-3	2	10	67	10.5					
	20.0				8								
	22.5	Gray, Highly Weathered, Highly Fractured, Very Soft, SHALE											
465.0	25.0		25.0	SS-4	31 50/3"		61	7.2					
		Bottom of Boring at 25.0 feet Rock coring was not able to be performed due to improper auger alignment due to riprap encountered during drilling. Offset to boring TB-3A to perform rock coring. Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.											
	27.5												
	30.0												
	32.5												
	35.0												
	37.5												
	40.0												
	42.5												
	45.0												

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

NOT FOR CONSTRUCTION

Note:
For Soil Boring Plan, see Sht.10.

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS DRAWN: MEN
CHECKED: APL CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
LINE "Q"

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	11 of 71
CONTRACT	PROJECT
R-41529	1700135

BORING NO. TB-3A

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation
ROUTE NO. : I-65 COUNTY : Clark
LOCATION : I-65 over Blue Lick Creek
DES NO. : 1600744 (NB) &1600750 (SB) PROJECT NO. :

BORING NO. : TB- 3A
SHEET : 1 OF 2
DATE STARTED : 03-01-21
DATE COMPLETED : 03-02-21
CTL PROJECT NO : 20050105IND

Boring Elevation : 490.0 feet Boring Depth : 34.0 feet
Latitude : 38.501821 Station : 403+87
Longitude : -85.770707 Offset : 28.0 feet Rt
Line : "Q"

Boring Method : HSA
Rig Type : CME-550 ATV
Casing Diameter : 3.25" I.D.
Core Size : 2" NQ

Hammer : Automatic
Hammer Efficiency : 90.7
Driller/Inspector : JS/DW
Temperature : 40° F
Weather : Clear

GROUNDWATER: ▽ Encountered at 17.0 feet ▽ At completion 17.0 feet

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
489.3		CEMENT CONCRETE (8") (Visual)	0.7										
	2.5												
	5.0	Test boring performed through bridge deck. Creek encountered at 17 feet and bedrock encountered at 19 feet.											
	7.5												
	10.0												
	12.5	Test boring performed through bridge deck. Creek encountered at 17 feet and bedrock encountered at 19 feet.											
	15.0												
473.0 ▽	17.5	Blue Lick Creek	17.0										
471.0	20.0	Dark Brownish Grey, Thin Bedding, Slightly Weathered, Moderately Hard, Moderately Fractured, SHALE 19.5', J,1°, PL, VC, S 20.0', J,2°, PL, VC, S 20.2', J,2°, PL, VC, S 20.5', J,1°, PL, VC, S 20.7', J,2°, PL, VC, SR 20.7'-21.0' Diagonal/Vertical Fracture 21.3', J,1°, PL, VC, SR 21.7'-21.85' Vertical Fracture 22.1' 2mm Coal seam 22.2', J, 1°, PL, VC, SR	19.0	RC-1 RQD= 37%			90						
	22.5	*Continued on next page*											

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

BORING NO. TB-3A (CONT'D.)

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation

BORING NO. : TB- 3A
SHEET : 2 OF 2

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
		22.3', J, 1°, PL, VC, SR											
		23.4', J, 2°, PI, VC, SR											
466.0		Dark Brownish Grey, Thin Bedding, Slightly Weathered, Moderately Hard, SHALE (Pyrite appears throughout the sample, but gets more prominent with depth)	24.0										
	25.0	25.7', J, 3°, IR, VC, R											
		26.3', Mechanical Break		RC-2 RQD= 88%			93						
		26.8', Mechanical Break 27.0', J, 3°, PL, VC, SR											
	27.5	27.3', Mechanical Break											
		28.8', Mechanical Break											
	30.0	29.6', J, 3°, PL, VC, S 29.9', J, 2°, PL, VC, SR 30.2', Mechanical Break 30.5', Mechanical Break 30.8', J,2°, PL, VC, S											
		31.9', 2mm vein of coal(maybe) Reacts to HCL		RC-3 RQD= 87%			97						
	32.5	32.6', Mechanical Break 32.7', J, 1°, PL, VC, S											
		33.2', Mechanical Break											
456.0		Bottom of Boring at 34.0 feet	34.0										
	35.0	Boring backfilled in accordance with INDOT requirements and pavement restored with concrete patch.											

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

BORING NO. TB-4

TEST BORING RECORD

CLIENT : Beam, Longest and Neff, LLC
PROJECT : Bridge Rehabilitation
ROUTE NO. : I-65 COUNTY : Clark
LOCATION : I-65 over Blue Lick Creek
DES NO. : 1600744 (NB) &1600750 (SB) PROJECT NO. :

BORING NO. : TB- 4
SHEET : 1 OF 1
DATE STARTED : 02-24-21
DATE COMPLETED : 02-24-21
CTL PROJECT NO : 20050105IND

Boring Elevation : 490.0 feet Boring Depth : 18.3 feet
Latitude : 38.501919 Station : 404+35
Longitude : -85.770873 Offset : 18.0 feet Lt
Line : "Q"

Boring Method : HSA
Rig Type : CME-550 ATV
Casing Diameter : 3.25" I.D.
Core Size : ---

Hammer : Automatic
Hammer Efficiency : 90.7
Driller/Inspector : JS/DW
Temperature : 40° F
Weather : Overcast

GROUNDWATER: ▽ Encountered at Dry ▽ At completion 13.3 feet ▼ 6.4 feet After 24 hours ⊠ Caved in at 7.4 feet

Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Stratum Depth	Sample Number	SPT per 6"	SPT per 12"	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	Atterberg Limits LL	PL	PI
489.8		TOPSOIL (2") (Visual)	0.2										
	2.5	Gray and Brown, Moist, Soft to Stiff, SILTY CLAY LOAM A-6, As Lab 1		SS-1	2 2 3	5	100	17.9					
	5.0			SS-2	4 5 4	9	100	20.1					
▽	7.5			SS-3	6 6 8	14	100	15.2	125.1	0.463 Φ 7.0%			
	10.0			SS-4	5 5 6	11	100	19.7					
476.5 ▽	12.5		13.5										
	15.0	Gray, Moist, Very Soft, SILT (Visual)		SS-5	2 1 2	3		22.1					
473.0	17.5		17.0										
471.7		Gray, Highly Weathered, Soft, SHALE	18.3	SS-6	50/3"		67	16.3					
	20.0	Bottom of Boring at 18.3 feet Auger Refusal at 18.3 Feet Boring backfilled in accordance with INDOT requirements.											

CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD		SAMPLING METHOD		ABBREVIATIONS	
HSA	– Hollow Stem Auger	SS	– Split Spoon Sample	*	– Hand Penetrometer
SFA	– Solid Flight Auger	ST	– Shelby Tube Sample	LL	– Liquid Limit
RC	– Rock Coring	CR	– Rock Core Sample	PL	– Plastic Limit
MD	– Mud Drilling	BS	– Bag Sample	PI	– Plasticity Index
WD	– Wash Drilling	AC	– Auger Cuttings	DCP	– Dynamic Cone Penetrometer Test
HA	– Hand Auger	SBS	– Subbase Sample		

INDOT_TEST BORING RECORD_LL_SO 20050105IND.GPJ INDOT_DATA TEMPLATE.GDT

NOT FOR CONSTRUCTION

Note:
For Soil Boring Plan, see Sht.10.

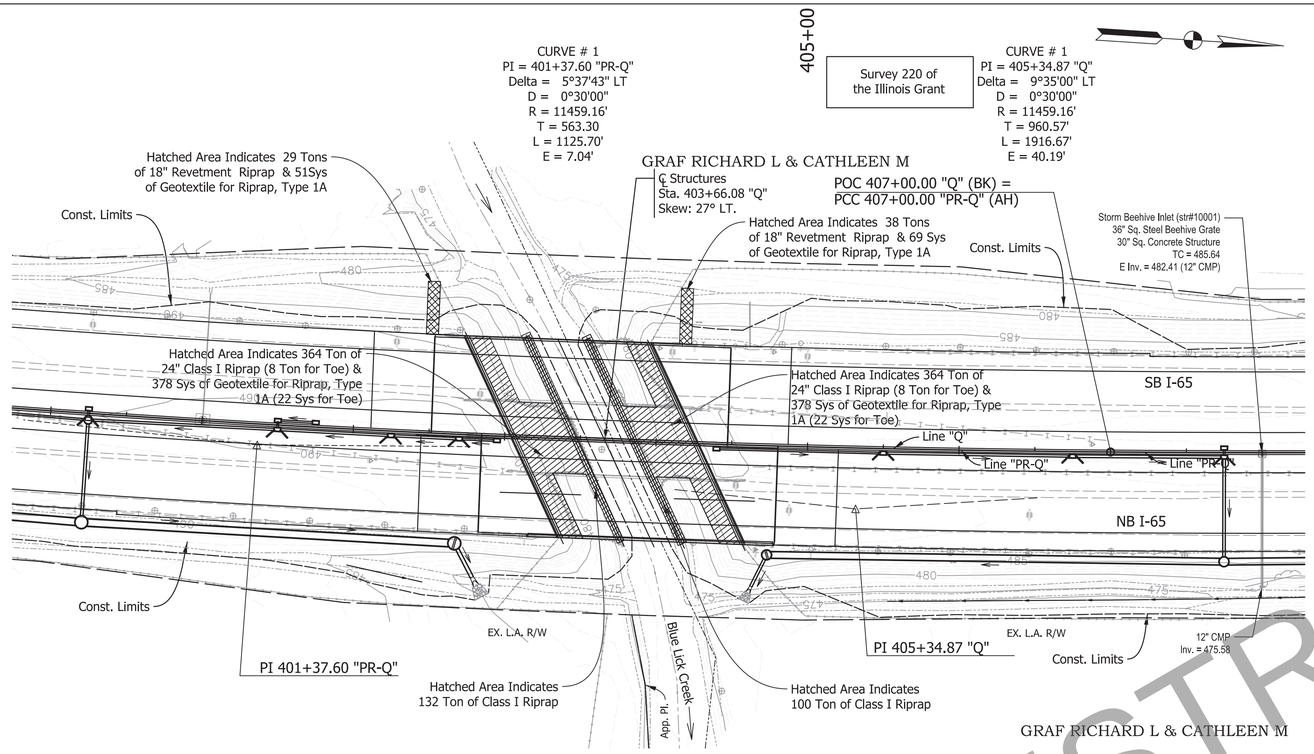
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

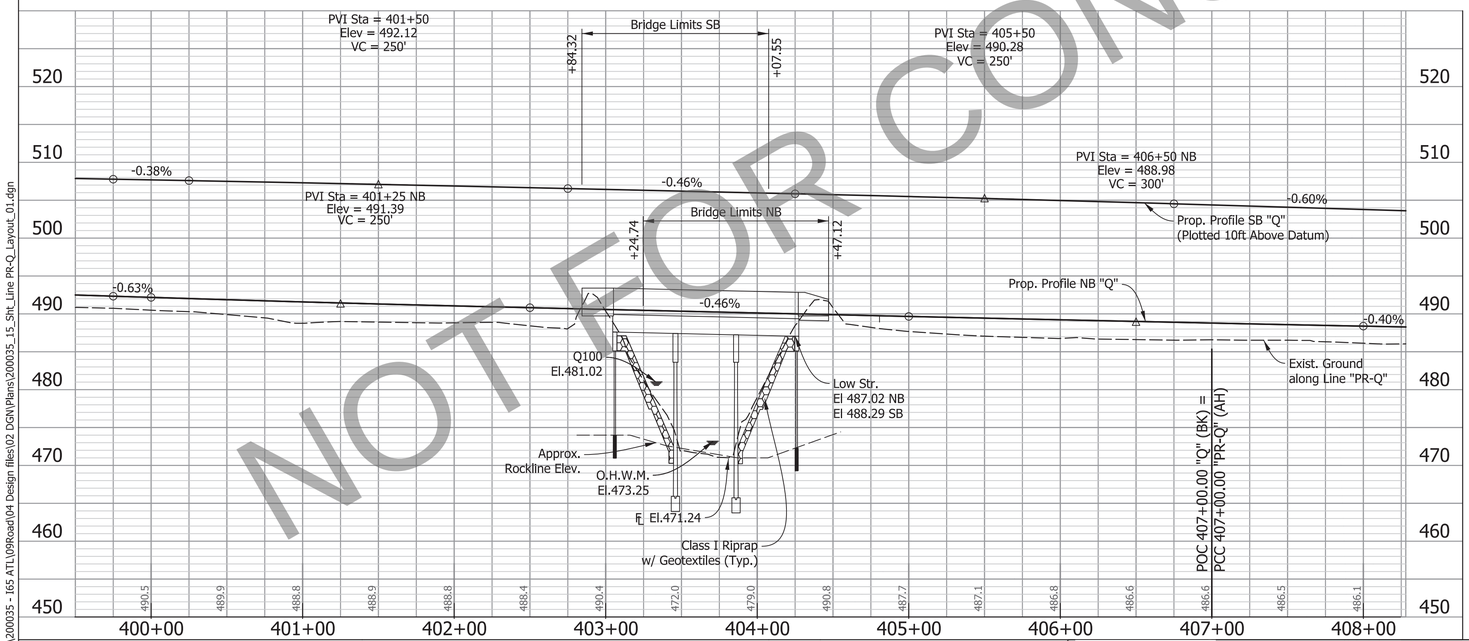
DESIGNED: LLS DRAWN: MEN
CHECKED: APL CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
LINE "Q"

HORIZONTAL SCALE	BRIDGE FILE
N/A	165-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	12 of 71
CONTRACT	PROJECT
R-41529	1700135





EXISTING STRUCTURE

The existing structures (I65-016-04220 DNBL & DSBL) are twin three span concrete girder structures (40'-0", 40'-0", 40'-0") with 39'-6" clear roadway width built circa 1958. (To Be Rehabilitated)

HYDRAULIC SCOUR DATA

DRAINAGE AREA	15.30	sq. mi.
Q100 Discharge	5,540	cfs.
Q100 Elevation	481.02	ft.
Q100 Contraction Scour	15.88	ft.
Q100 Total Scour	21.77	ft.
Flowline Elevation	471.24	ft.
Q100 Low Scour Elevation	449.47	ft.
Q100 Max Velocity	12.16	ft/s
Q100 Avg Velocity	8.69	ft/s

EARTHWORK SUMMARY

Common Excavation	140 Cys
Usable Common Excavation (25%)	35 Cys
Fill + 20%	0 Cys
Foundation, Excavation, Unclassified	288 Cys
Usable Foundation, Excavation, Unclassified (25%)	70 Cys

The estimated quantities for Benching are 0 Cys for Cut and 0 Cys for Fill and are not included in the Earthwork Summary.

NOT FOR CONSTRUCTION

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 40'-0", 40'-0", 40'-0"
62'-7" CLEAR ROADWAY SKEW: 27° Lt.
I-65 OVER BLUE LICK CREEK
CLARK COUNTY

Notes:
Line "Q" to be Constructed to Sta. 407+00.
See Geometric Tie Sheets for Line "Q".
See Plan and Profile Sheets for Reference Points.

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

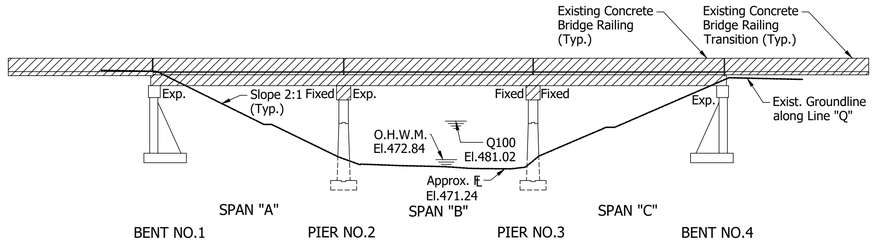
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

LAYOUT SHEET

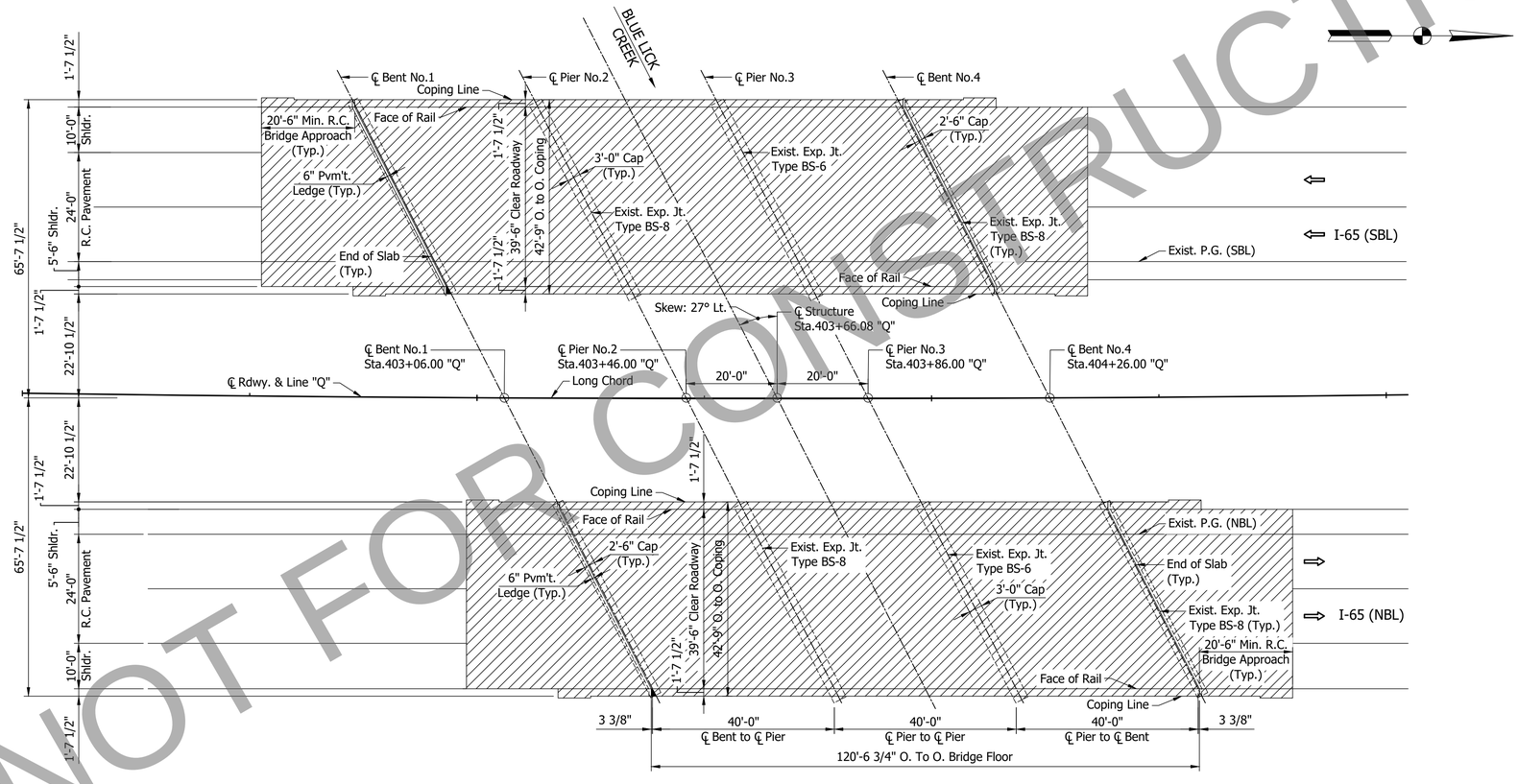
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1" = 10'	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C1 of C57	13 of 71
CONTRACT	PROJECT
R-41529	1700135

10/20/20288:02:55 AM - P:\200035 - I65 ATL\09Road\04 Design files\02 DGN\Plans\200035_15_Sht_Line PR-Q_Layout_01.dgn

EXISTING STRUCTURE BUILT ON A -0.44% GRADE



ELEVATION
Scale: 1/16" = 1'-0"



PLAN
Scale: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

Note:
For General Notes and Typical Sections, see Dwg.C4.

Hatched areas indicate portions to be removed.

TWIN CONTINUOUS PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 40'-0", 40'-0", 40'-0"
39'-6" CLEAR ROADWAYS SKEW: 27° LT.
I-65 OVER BLUE LICK CREEK
CLARK COUNTY

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

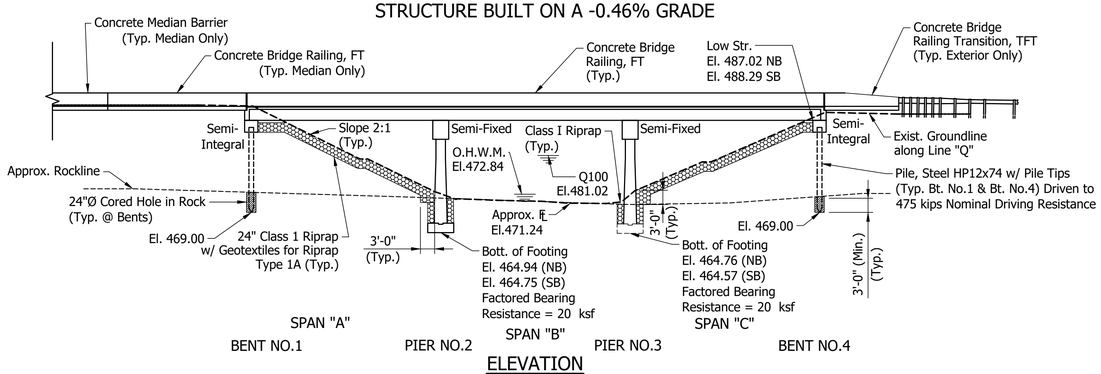
DESIGNED: LLS DRAWN: NW
CHECKED: APL CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

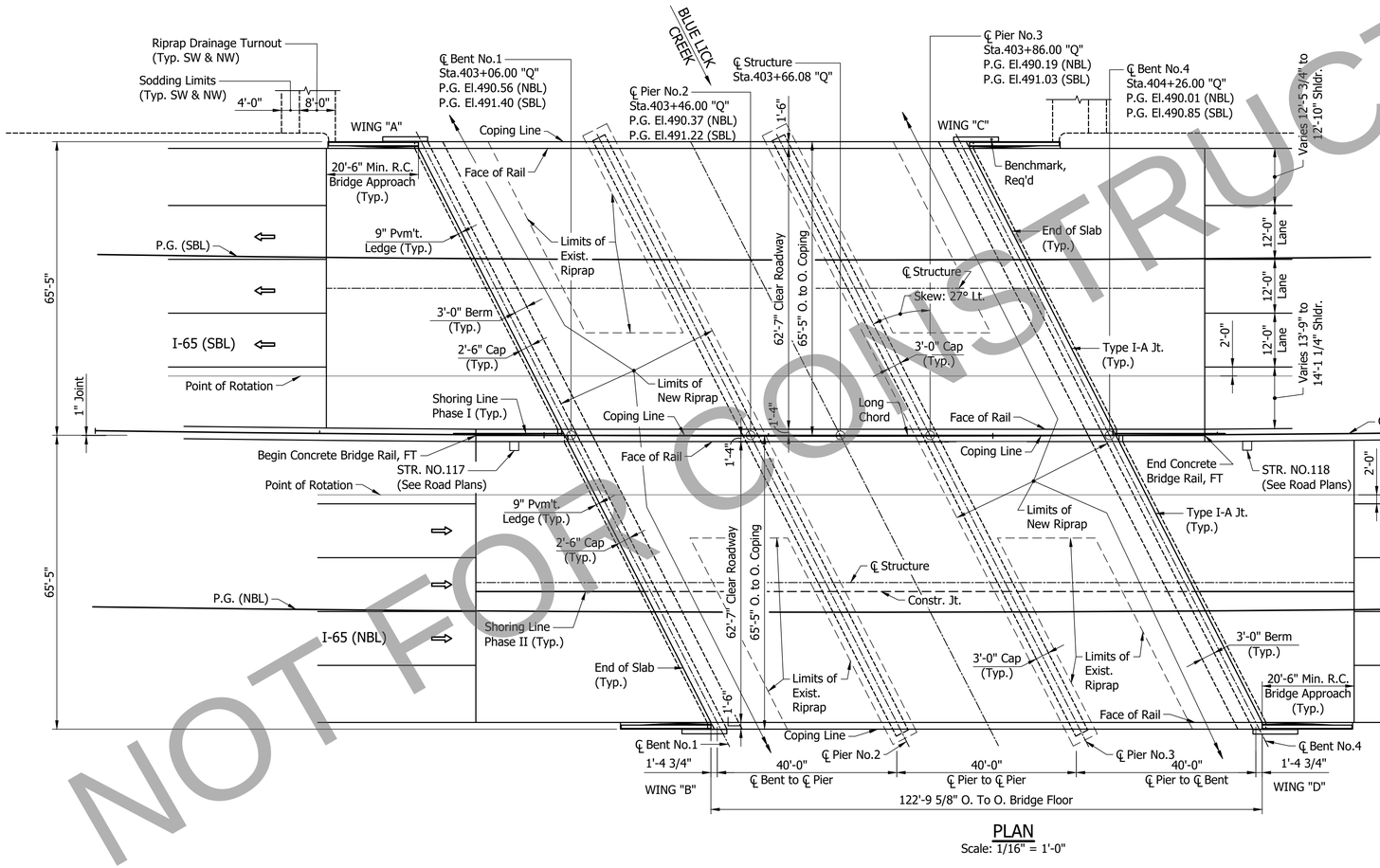
GENERAL PLAN
EXISTING

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C2 of C57	14 of 71
CONTRACT	PROJECT
R-41529	1700135

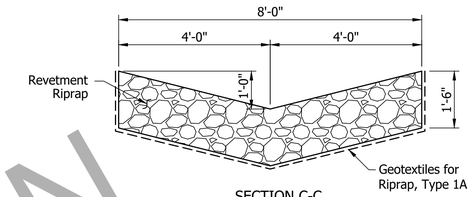
STRUCTURE BUILT ON A -0.46% GRADE



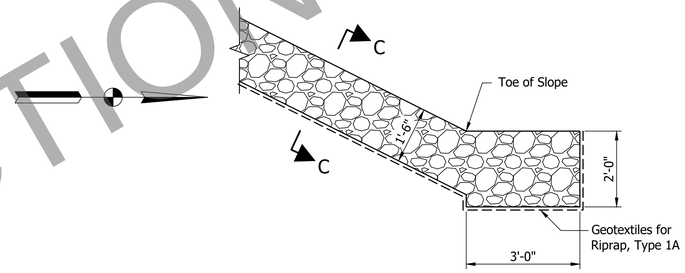
ELEVATION
Scale: 1/16" = 1'-0"



PLAN
Scale: 1/16" = 1'-0"



SECTION C-C



LONGITUDINAL SECTION

RIPRAP DRAINAGE TURNOUT DETAIL
Scale: 1/2"=1'-0"

RIPRAP TURNOUT QUANTITIES			
WING	REVETMENT RIPRAP	GEOTEXTILE TYPE 1A	SOD
Wing "A"	38 Tons	69 Sys	24 Sys
Wing "B"	0 Tons	0 Sys	0 Sys
Wing "C"	29 Tons	51 Sys	18 Sys
Wing "D"	0 Tons	0 Sys	0 Sys

Note:
For General Notes and Typical Sections, see Dwg.C4.
For Stakeout Diagram, see Dwg.C5.

TWIN CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGES
3 SPANS: 40'-0", 40'-0", 40'-0"
62'-7" CLEAR ROADWAYS SKEW: 27° LT.
I-65 OVER BLUE LICK CREEK
CLARK COUNTY

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

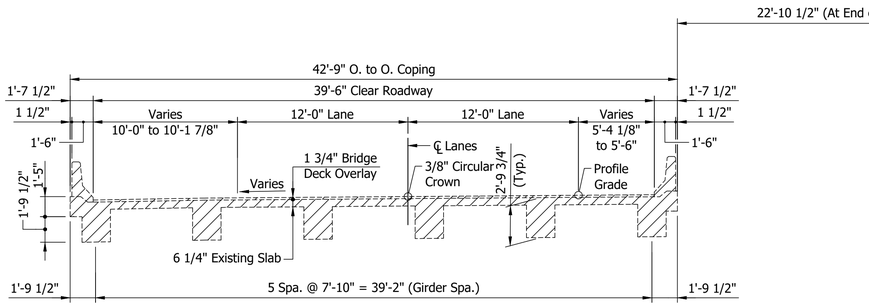
INDIANA
DEPARTMENT OF TRANSPORTATION

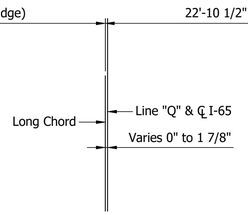
DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

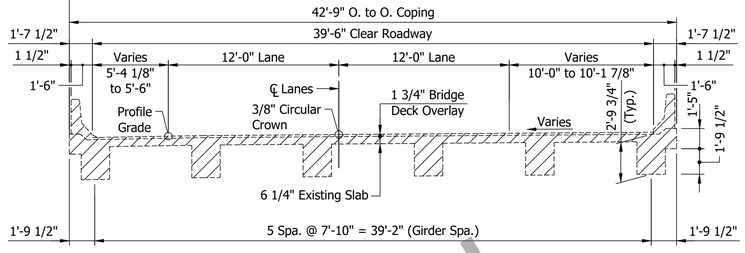
GENERAL PLAN
PROPOSED

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C3 of C57	15 of 71
CONTRACT	PROJECT
R-41529	1700135



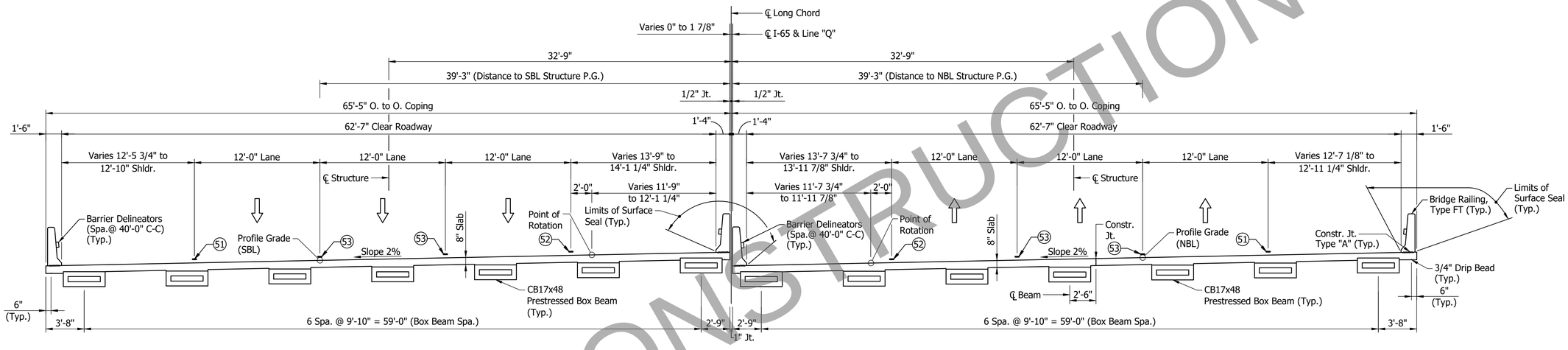




TYPICAL SECTION - EXISTING

Scale: 3/16" = 1'-0"

Note:
Hatched area indicates portions to be removed.



TYPICAL SECTION - PROPOSED

Scale: 3/16" = 1'-0"

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in top and 1" minimum in bottom of floor slabs, 3" in top of footings and 4" in bottom of footings, and 2" in all other parts unless noted.

Where new work is to be fitted to the old work, the Contractor shall check and verify all dimensions, elevations and conditions in the field and report any errors or discrepancies to the Engineer and assume responsibility for their correctness and the fit of the new construction to the existing structure.

The hand chipping and cleaning of deteriorated substructure areas shall be as directed by the Engineer. It is the intent of these plans that all such deteriorated concrete be removed and should there be any doubt as to the quality of the concrete, removal shall continue until perfectly sound concrete is exposed.

Portions of present structure to be removed:

For Concrete Patching at interior piers and exterior bents (NBL & SBL), see Table, this sheet.

All exposed faces of concrete railings, all exposed top of piers, surfaces of wingwalls and bents to be sealed in accordance with Article 702.21 of Specifications.

(Estimated Quantity = 3142 Sft-NBL)
(Estimated Quantity = 3355 Sft-SBL)

Data shown for existing bridge and subsequent geometry for proposed structure taken from original structure plans.

Plans for existing structure are on file in the Research and Documents Section at the Indiana Department of Transportation, as Bridge File No.I65-016-04220 NBL & SBL and are available upon request. The existing bridge was constructed under Contract No. B-4444.

CONSTRUCTION LOADING

The exterior beam has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of exterior beam. The finishing machine was assumed to be supported 6 inches outside the vertical coping form. The top overhang brackets were assumed to be located 6 inches past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the side of the box beam.

DECK FALSEWORK LOADS:
Designed for 15 psf for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft. exterior walkway.

CONSTRUCTION LIVE LOAD:
Designed for 20 psf extending 2 ft. past the edge of coping and 75 plf vertical force applied at a distance of 6 inches outside the face of coping over a 30-ft. length of the deck centered with the finishing machine.

FINISHING-MACHINE LOAD:
4,500 lbs distributed over 10 ft. along the coping.

WIND LOAD:
Designed for 70 mph horizontal wind loading in according with AASHTO LRFD 3.8.1.

SEISMIC DATA

AASHTO Guide Design Specifications for LRFD Seismic Bridge Design
Seismic Zone 1
S1 = 0.103
Site Class C
Fv = 1.697

DESIGN DATA

LIVE LOAD

Existing superstructure and substructure designed for H20-916-44 loading in accordance with 1953 AASHTO Specifications, except floor slab designed for 16,000 lb wheel. Checked for two 24,000 lbs axles spaced at 4'-0" on center.

Proposed superstructure and substructure designed for HL-93 loading in accordance with the 2017 AASHTO LRFD Bridge Design Specifications with Interims.

DEAD LOAD

Actual weight plus 35 psf (composite) for future wearing surface and 15 psf (non-composite) for permanent metal deck forms.

FLOOR SLAB

Designed for HL-93 Loading with a 1/2" sacrificial wearing surface.

DESIGN STRENGTHS

To be in accordance with 2017 AASHTO LRFD Bridge Design Specifications with Interims.

PRESTRESSED CONCRETE, NORMAL WEIGHT:
f'c=7,000 psi @ 28 days
Initial f'c=6,000 psi @ Release of Strands

PRESTRESSING STRANDS:
0.5" Ø 7 Wire Special LoLax Strands (As=0.167 in²)
Min. Tensile Strength=270,000 psi
Initial Pull=33,800 lbs. per strand

CONCRETE:
Class "C": f'c=4,000 psi
Class "B": f'c=3,000 psi
Class "A": f'c=3,500 psi

REINFORCING STEEL:
Grade 60: fy=60,000 psi

LEGEND

(51) Line, Multi-Component, Solid, White, 6 in.
(52) Line, Multi-Component, Solid, Yellow, 6 in.
(53) Line, Multi-Component, Broken, White, 6 in.

SUBSTRUCTURE CONCRETE PATCHING		
SUBSTRUCTURE	NBL	SBL
Bent No.1	10 Sft*	10 Sft*
Pier No.2	30 Sft*	10 Sft*
Pier No.3	30 Sft*	0 Sft
Bent No.4	20 Sft*	10 Sft*

*Estimated Quantity

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 40'-0", 40'-0", 40'-0"
62'-7" CLEAR ROADWAYS SKEW: 27° LT.
I-65 OVER BLUE LICK CREEK
CLARK COUNTY

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

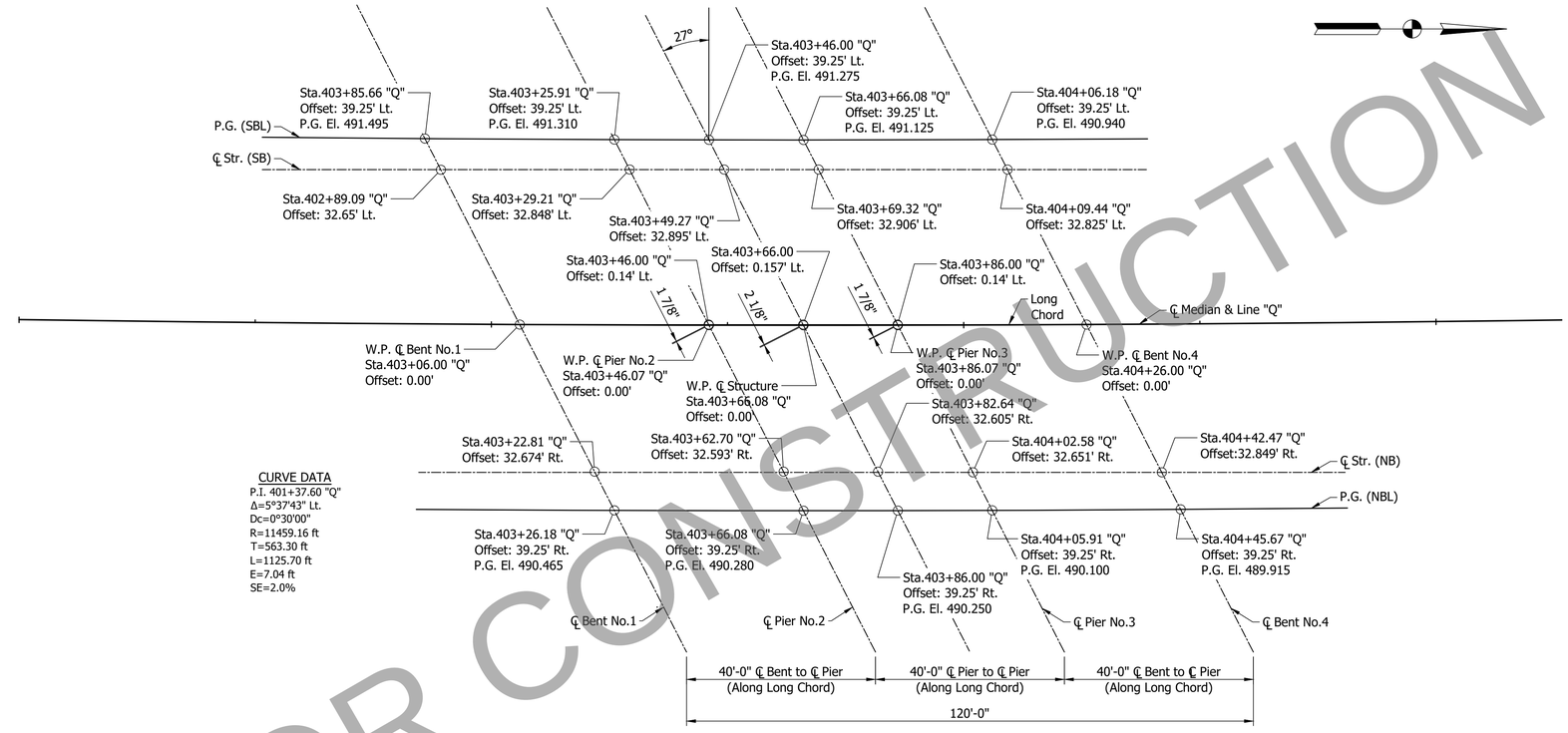
INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

GENERAL PLAN
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C4 of C57	16 of 71
CONTRACT	PROJECT
R-41529	1700135

NOT FOR CONSTRUCTION



CURVE DATA
P.I. 401+37.60 "Q"
Δ=5°37'43" Lt.
Dc=0°30'00"
R=11459.16 ft
T=563.30 ft
L=1125.70 ft
E=7.04 ft
SE=2.0%

STAKEOUT PLAN
Scale: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

Note:
For Plan & Elevation, see Dwg.C3.
For Typical Section & General Notes, see Dwg.C4.

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 40'-0", 40'-0", 40'-0"
62'-7" CLEAR ROADWAYS SKEW: 27° LT.
I-65 OVER BLUE LICK CREEK
CLARK COUNTY

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

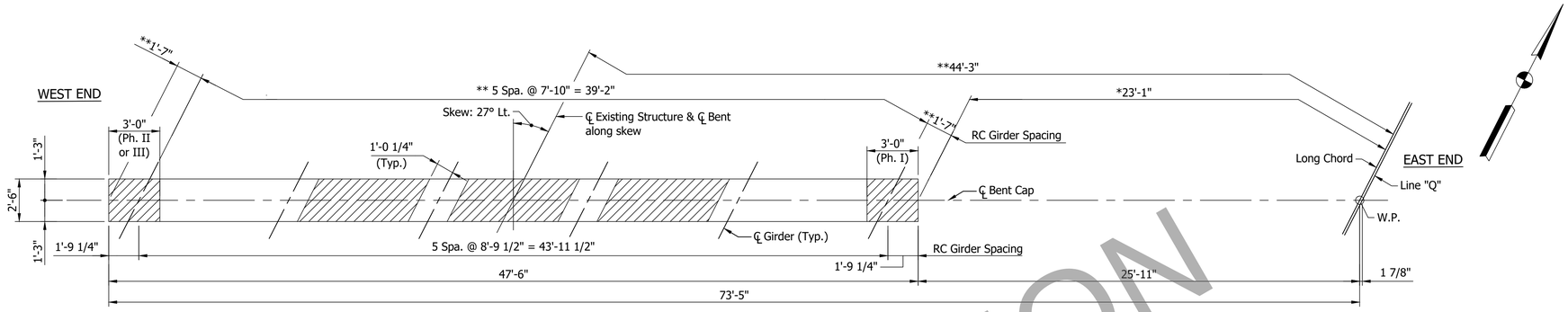
GENERAL PLAN
STAKEOUT DIAGRAM

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C5 of C57	17 of 71
CONTRACT	PROJECT
R-41529	1700135

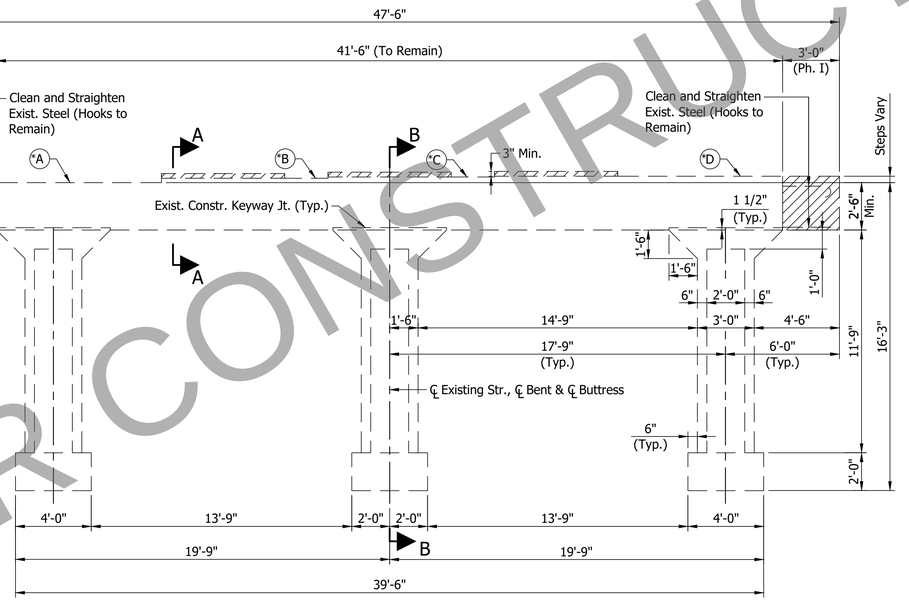
TABLE OF ELEVATIONS		
ELEVATION POINT	BENT NO.1	
	SOUTHBOUND	NORTHBOUND
"A"	486.94	487.13
"B"	487.17	487.26
"C"	487.24	487.34
"D"	487.28	487.38

* Contractor shall verify all existing bridge seat elevations.

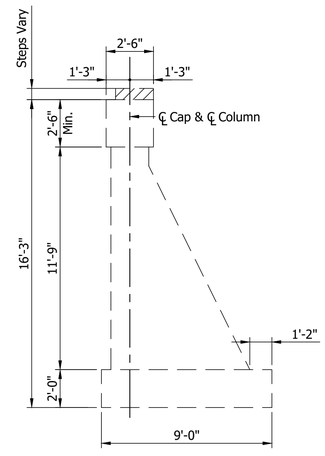


CAP PLAN
(SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND)
Scale: 1/4" = 1'-0"

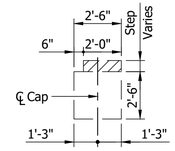
Note:
Hatched Areas indicate portions to be removed.
**Measurements are ⊥ to Skew.



ELEVATION
(SBL SHOWN, NBL CAP SIMILAR)
Scale: 1/4" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"



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

Notes:
For General Notes, see Dwg.C4.
For Reconstruction Details, see Dwgs.C7 - C12.

NOT FOR CONSTRUCTION

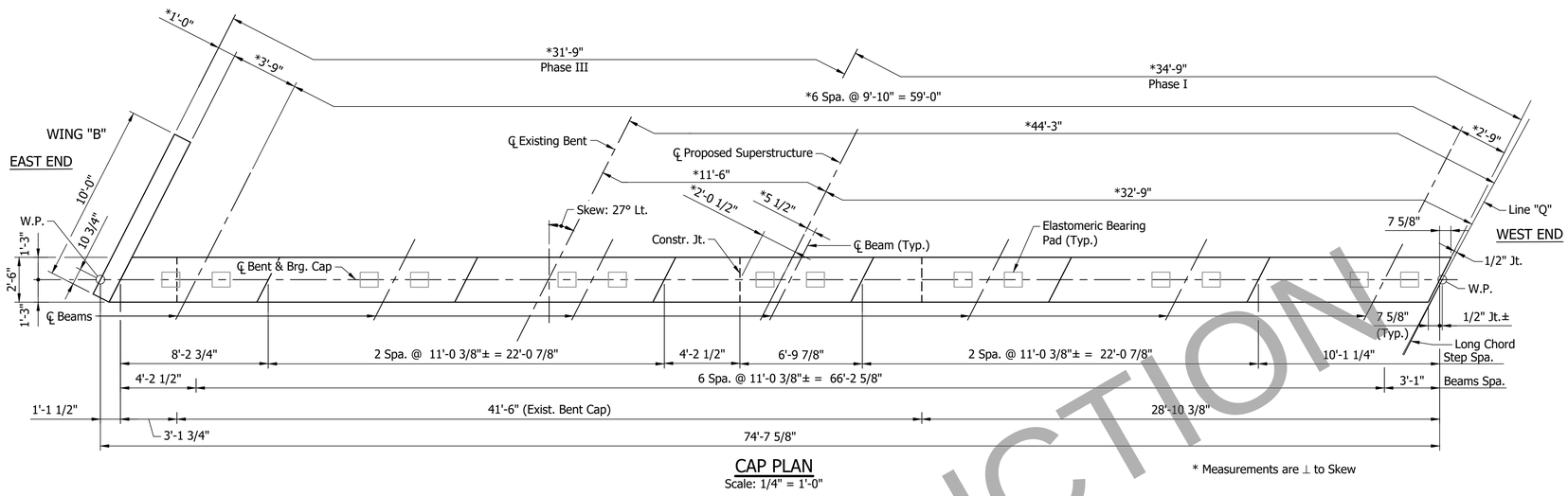
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

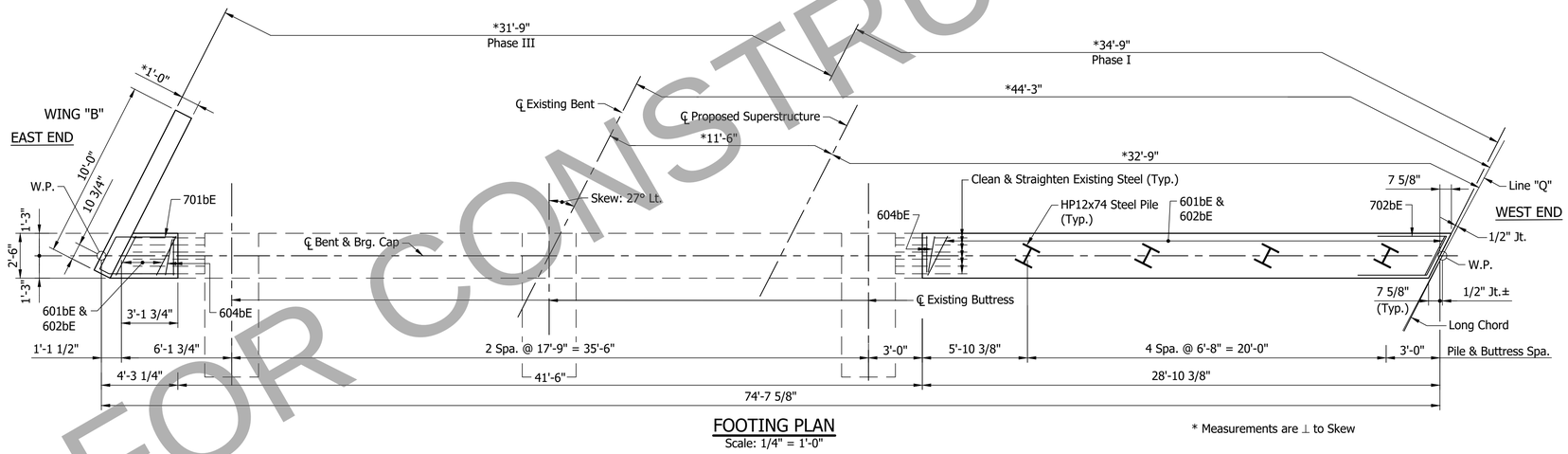
BENT NO. 1
REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C6 of C57	18 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



FOOTING PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Elevation View, see Dwg.C8.

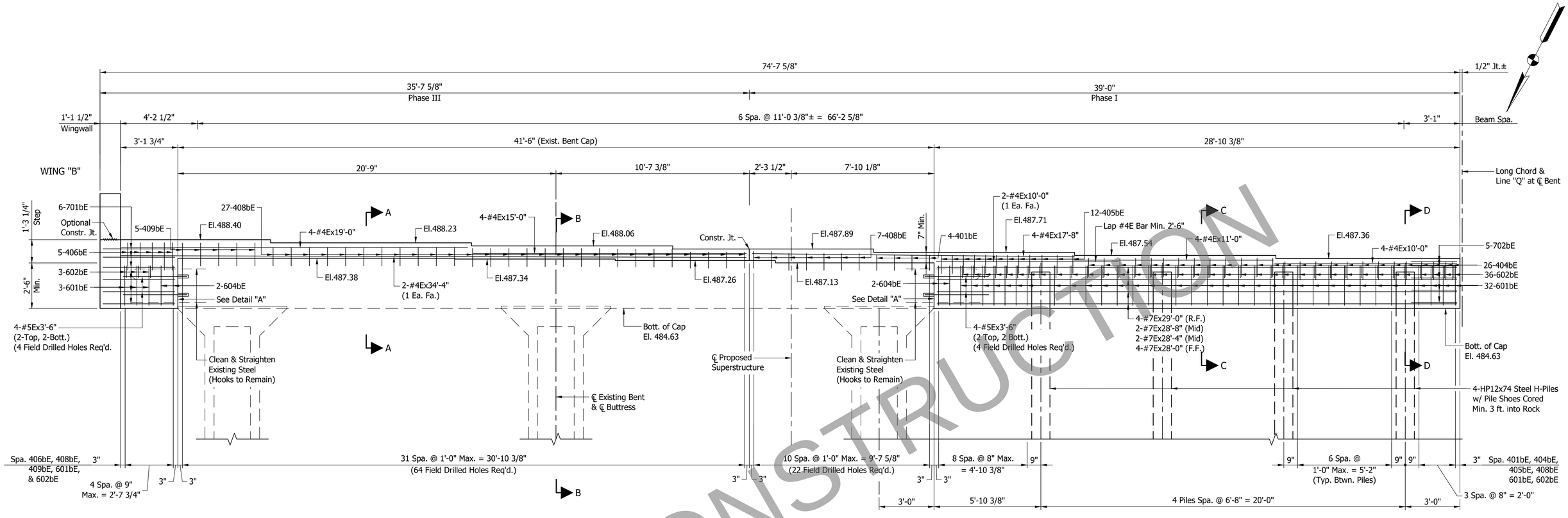
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

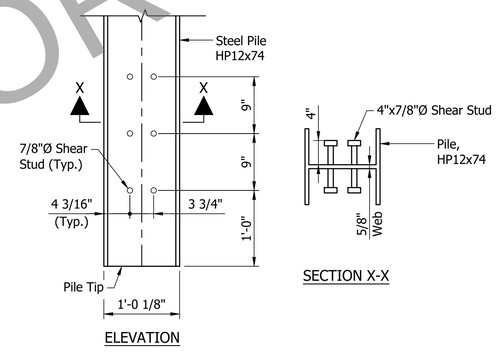
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.1
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C7 of C57	19 of 71
CONTRACT	PROJECT
R-41529	1700135



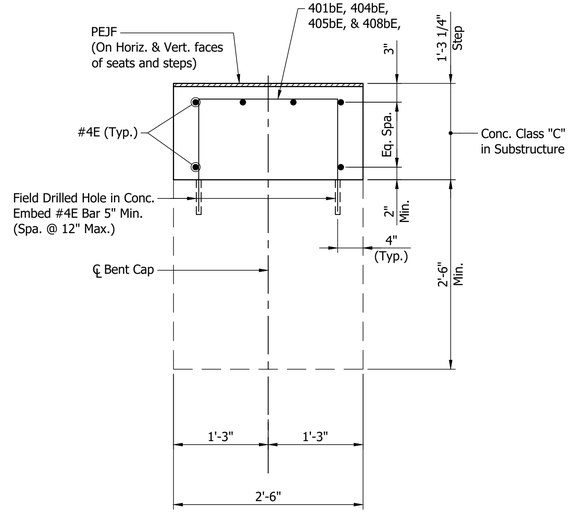
ELEVATION
(Front Face)
Scale: 3/8" = 1'-0"



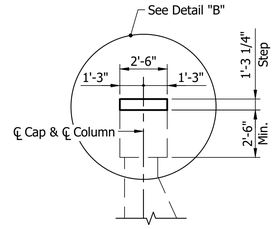
ELEVATION

SECTION X-X

PILE SHEAR STUD DETAIL
Scale: 1" = 1'-0"



DETAIL "B"
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Sections A-A, C-C, D-D and Detail "A", see Dwg.C11.

For Cap and Footing Plan, see Dwg.C7.

NOT FOR CONSTRUCTION

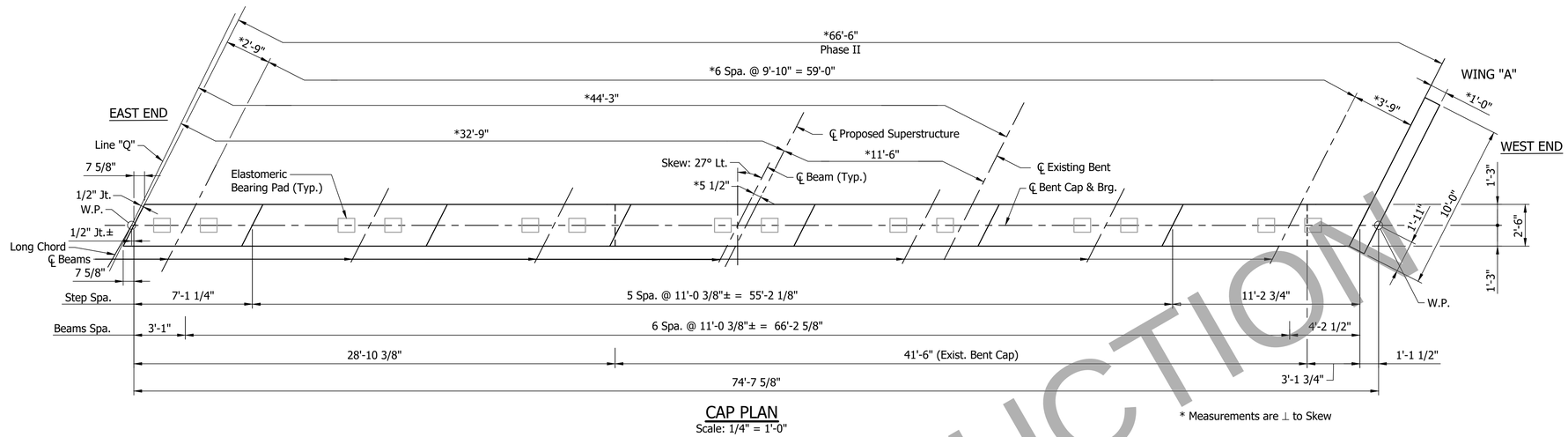
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

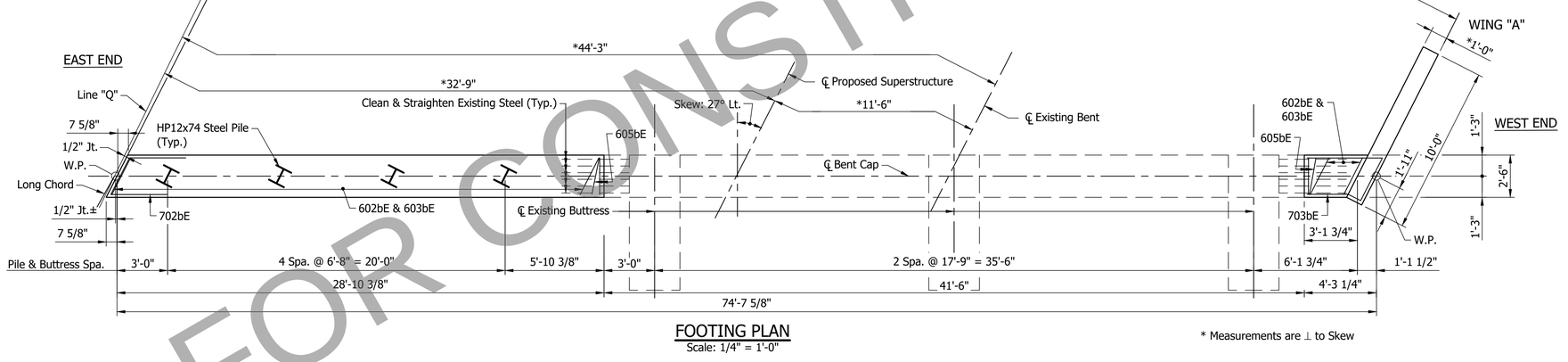
BENT NO.1
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C8 of C57	20 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



FOOTING PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Elevation View, see Dwg.C10.

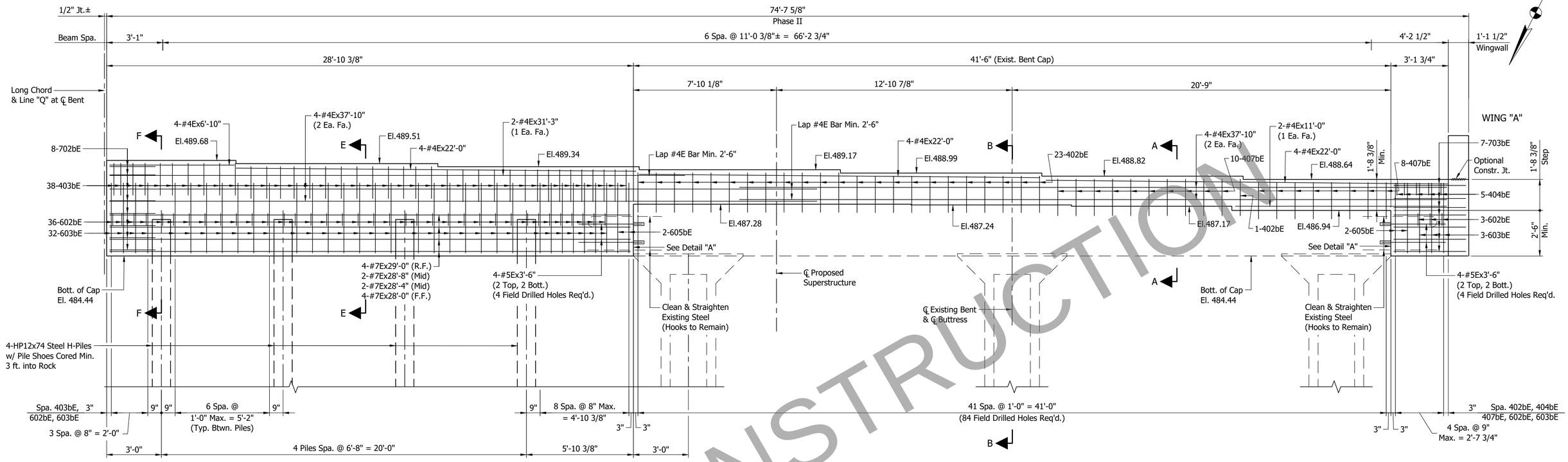
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

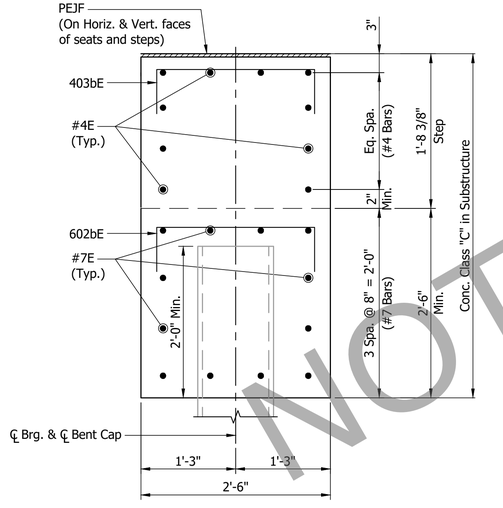
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.1
SBL RECONSTRUCTION DETAILS

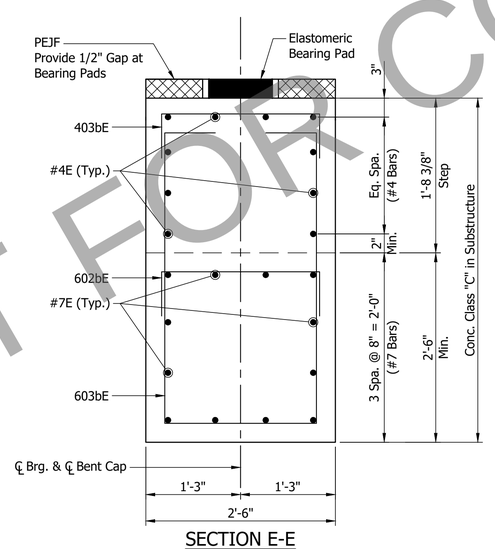
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C9 of C57	21 of 71
CONTRACT	PROJECT
R-41529	1700135



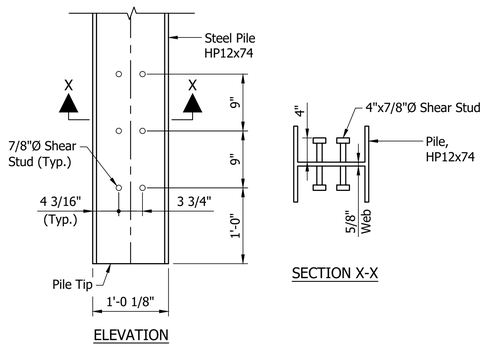
ELEVATION
(Front Face)
Scale: 3/8" = 1'-0"



SECTION F-F
Scale: 1" = 1'-0"



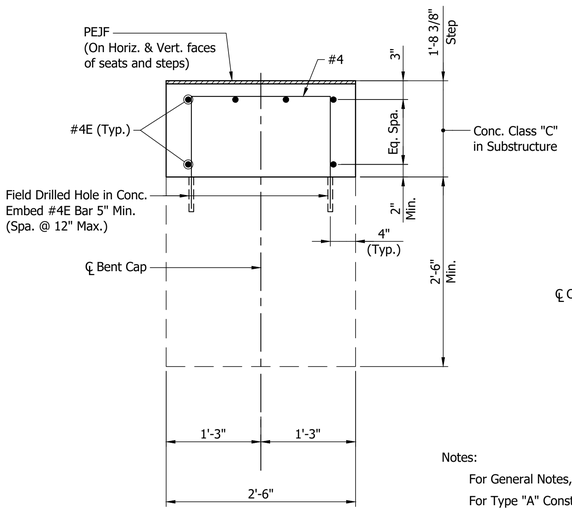
SECTION E-E
Scale: 1" = 1'-0"



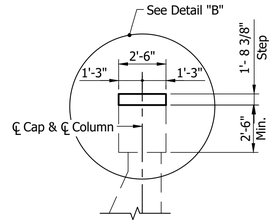
ELEVATION

SECTION X-X

PILE SHEAR STUD DETAIL
Scale: 1" = 1'-0"



DETAIL "B"
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Sections A-A, C-C, D-D and Detail "A", see Dwg.C11.

For Cap and Footing Plan, see Dwg.C9.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

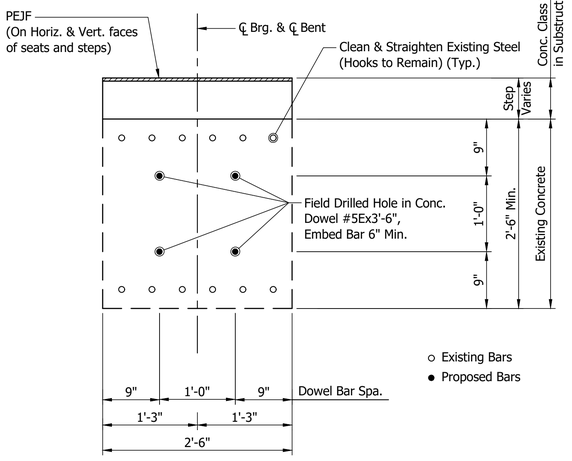
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

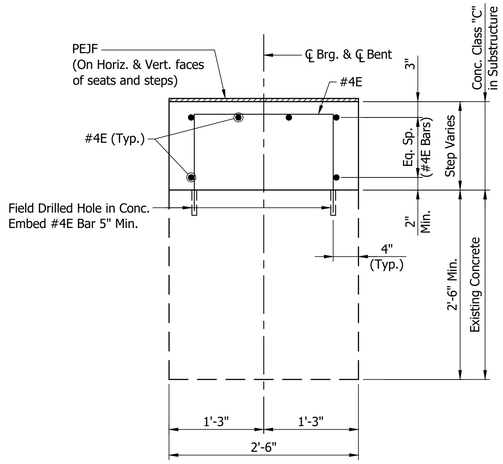
BENT NO.1
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)

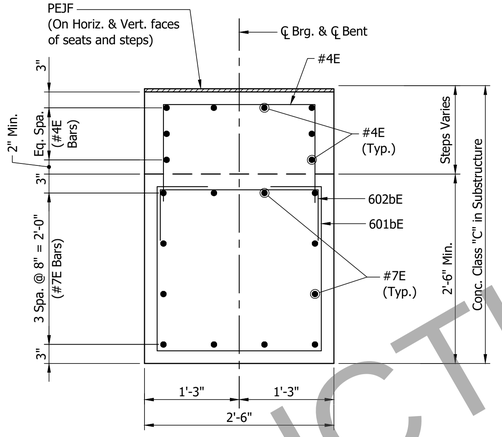
DRAWING NO.	SHEETS
C10 of C57	22 of 71
CONTRACT	PROJECT
R-41529	1700135



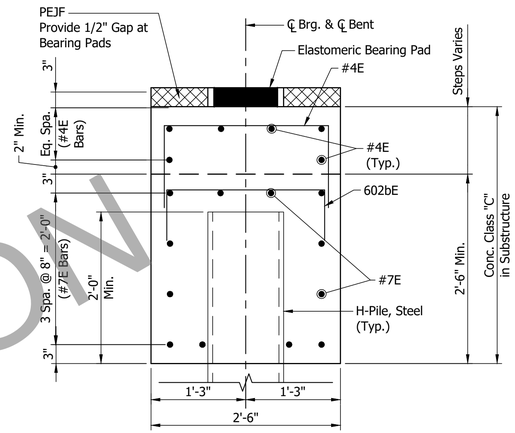
DETAIL "A"
Scale: 1" = 1'-0"



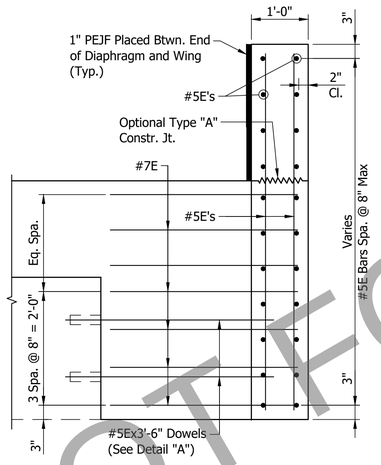
SECTION A-A
Scale: 1" = 1'-0"



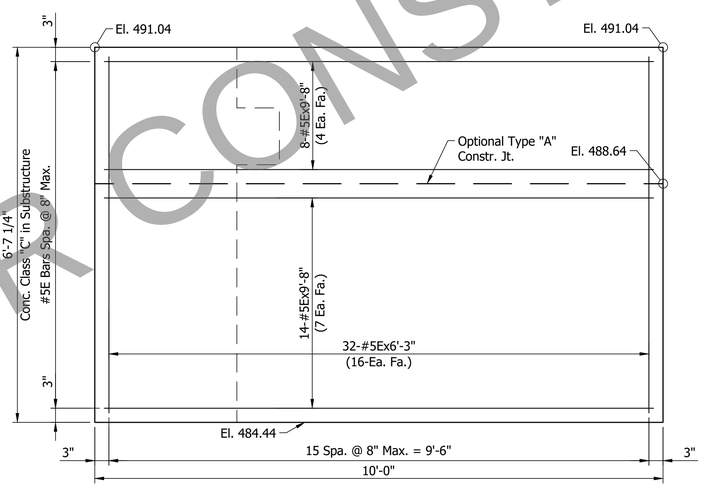
SECTION C-C
Scale: 1" = 1'-0"



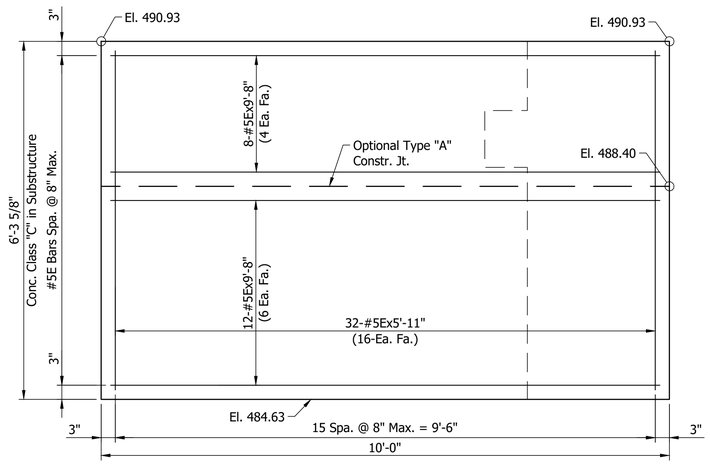
SECTION D-D
Scale: 1" = 1'-0"



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



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



WING "B" - NBL
Scale: 3/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.
For Bent Details, see Dwgs.C5 - C7.
For Bar Bending Diagrams & Bill of Materials, see Dwg.C9.
For Type "A" Constr. Jt., see Std.Dwg.No.E702-CJTA-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

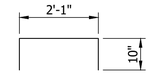
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

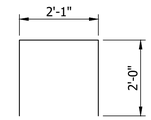
BENT NO.1 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)

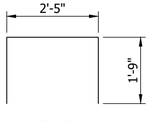
DRAWING NO.	SHEETS
C11 of C57	23 of 71
CONTRACT	PROJECT
R-41529	1700135



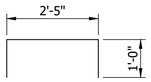
401bE x 3'-9"



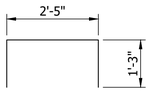
402bE x 6'-1"



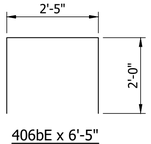
403bE x 5'-11"



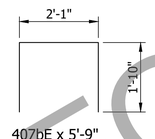
404bE x 4'-5"



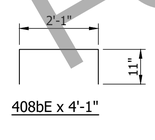
405bE x 4'-11"



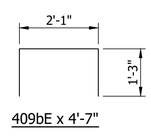
406bE x 6'-5"



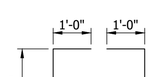
407bE x 5'-9"



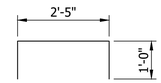
408bE x 4'-1"



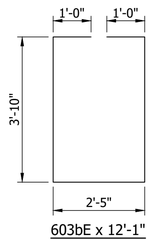
409bE x 4'-7"



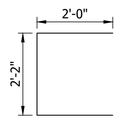
601bE x 8'-9"



602bE x 4'-5"

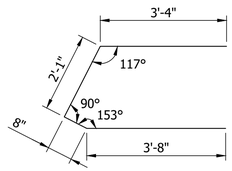


603bE x 12'-1"

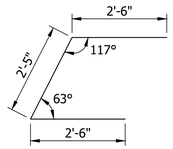


604bE x 6'-2"

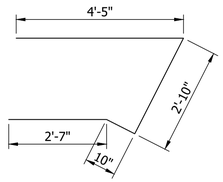
605bE x 7'-10"



701bE x 9'-9"



702bE x 7'-5"



703bE x 10'-8"

BILL OF MATERIALS

NBL BENT NO.1 - PHASE I

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
702bE	5	7'-5"	
#7E	4	29'-0"	
#7E	2	28'-8"	
#7E	2	28'-4"	
#7E	4	28'-0"	
Total #7E			775
601bE	32	8'-9"	
602bE	36	4'-5"	
604bE	2	6'-2"	
Total #6E			679
#5E	4	3'-6"	
Total #5E			15
401bE	4	3'-9"	
404bE	26	4'-5"	
405bE	12	4'-11"	
408bE	7	4'-1"	
#4E	4	17'-8"	
#4E	4	11'-0"	
#4E	6	10'-0"	
Total #4E			261
Total Epoxy Coated Reinforcing Bars			1730

CONCRETE	
Concrete Class "C" in Substructure	8.4 Cys.
Total Concrete Class "C" in Substructure	8.4 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	22 Cys.
Field Drilled Hole in Concrete	26 Ea.
4-Piles, Steel H, HP12x74 @ 18 Lft. Ea.	72 Lft.
Pile Shoe, HP12x74	4 Ea.
Cored Hole in Rock, 24 in.	20 Lft.
Surface Seal (Est. Quantity)	115 Sft.

BILL OF MATERIALS

NBL BENT NO.1 - PHASE III

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
701bE	6	9'-9"	
Total #7E			120
601bE	3	8'-9"	
602bE	3	4'-5"	
604bE	2	6'-2"	
Total #6E			78
#5E	20	9'-8"	
#5E	32	5'-11"	
#5E	4	3'-6"	
Total #5E			415
406bE	5	6'-5"	
408bE	27	4'-1"	
409bE	5	4'-7"	
#4E	2	34'-4"	
#4E	4	19'-0"	
#4E	4	15'-0"	
Total #4E			247
Total Epoxy Coated Reinforcing Bars			860

CONCRETE	
Concrete Class "C" in Substructure	6.2 Cys.
Total Concrete Class "C" in Substructure	6.2 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	17 Cys.
Field Drilled Hole in Concrete	68 Ea.
Flowable Backfill, Non-Removable	2 Cys.
Patching Concrete Structure	10 Sft.
Surface Seal (Est. Quantity)	141 Sft.

BILL OF MATERIALS

SBL BENT NO.1 - PHASE II

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
702bE	8	7'-5"	
703bE	7	10'-8"	
#7E	4	29'-0"	
#7E	2	28'-8"	
#7E	2	28'-4"	
#7E	4	28'-0"	
Total #7E			973
602bE	39	4'-5"	
603bE	35	12'-1"	
605bE	4	7'-10"	
Total #6E			941
#5E	22	9'-8"	
#5E	32	6'-3"	
#5E	8	3'-6"	
Total #5E			460
402bE	24	6'-1"	
403bE	38	5'-11"	
404bE	5	4'-5"	
407bE	18	5'-9"	
#4E	8	37'-10'	
#4E	2	31'-3"	
#4E	12	22'-0"	
#4E	2	11'-0"	
#4E	4	6'-10"	
Total #4E			784
Total Epoxy Coated Reinforcing Bars			3158

CONCRETE	
Concrete Class "C" in Substructure	24.0 Cys.
Total Concrete Class "C" in Substructure	24.0 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	47 Cys.
Field Drilled Hole in Concrete	92 Ea.
4-Piles, Steel H, HP12x74 @ 18 Lft. Ea.	72 Lft.
Pile Shoe, HP12x74	4 Ea.
Cored Hole in Rock, 24 in.	20 Lft.
Flowable Backfill, Non-Removable	2 Cys.
Patching Concrete Structure	10 Sft.
Surface Seal (Est. Quantity)	366 Sft.

Notes:

For General Notes, see Dwg.C4.

For Bent Details, see Dwgs.C5 - C8.

"E" denotes Epoxy Coated Reinforcing Steel.

For Type "A" Constr. Jt., see Std.Dwg.No.E702-CJTA-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LLS | DRAWN: LLB

CHECKED: APL | CHECKED: APL

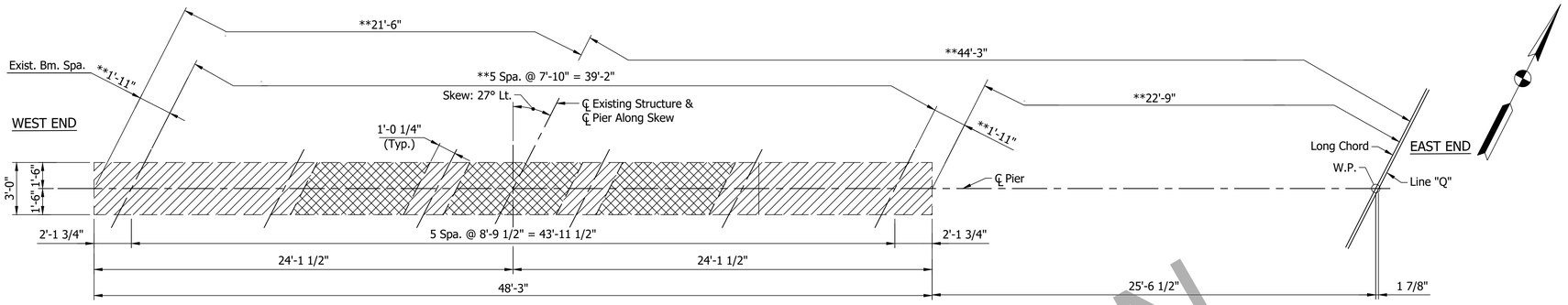
BENT NO.1 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C12 of C57	24 of 71
CONTRACT	PROJECT
R-41529	1700135

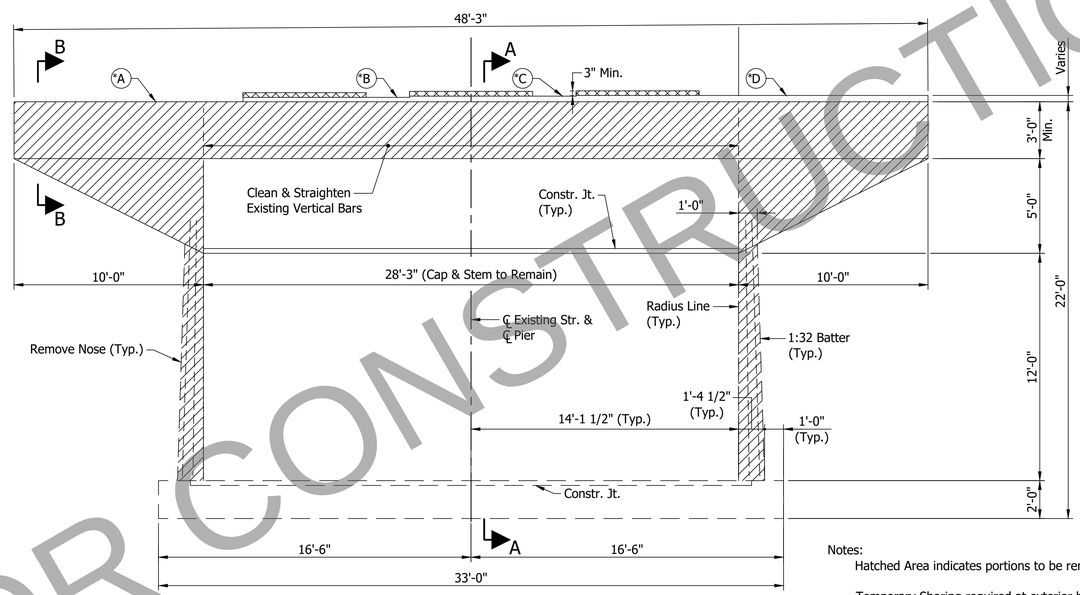
TABLE OF ELEVATIONS		
ELEVATION POINT	PIER NO.2	
	SOUTHBOUND	NORTHBOUND
"A"	486.75	486.94
"B"	486.98	487.07
"C"	487.05	487.14
"D"	487.08	487.18

* Contractor shall verify all existing bridge seat elevations.



CAP PLAN
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"

** Measurements are ⊥ to Skew

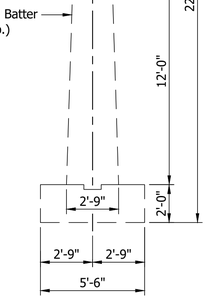


ELEVATION
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"

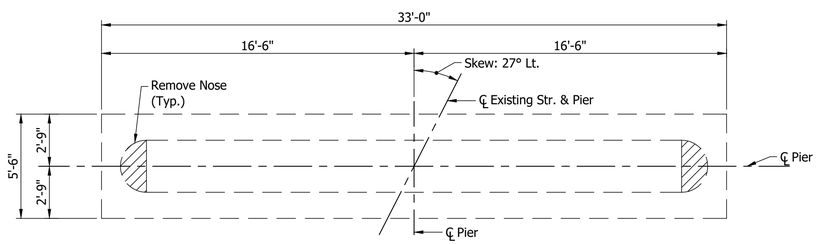
Notes:
Hatched Area indicates portions to be removed.

Temporary Shoring required at exterior hammer under phased construction.

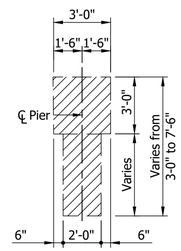
Ext. Beam Dead Load = 70k (unfactored)
Live Load = 60k (unfactored per Lane)



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



FOOTING PLAN
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:
For General Notes, see Dwg.C4.

For Pier Reconstruction Details, see Dwgs.C14 & C17.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
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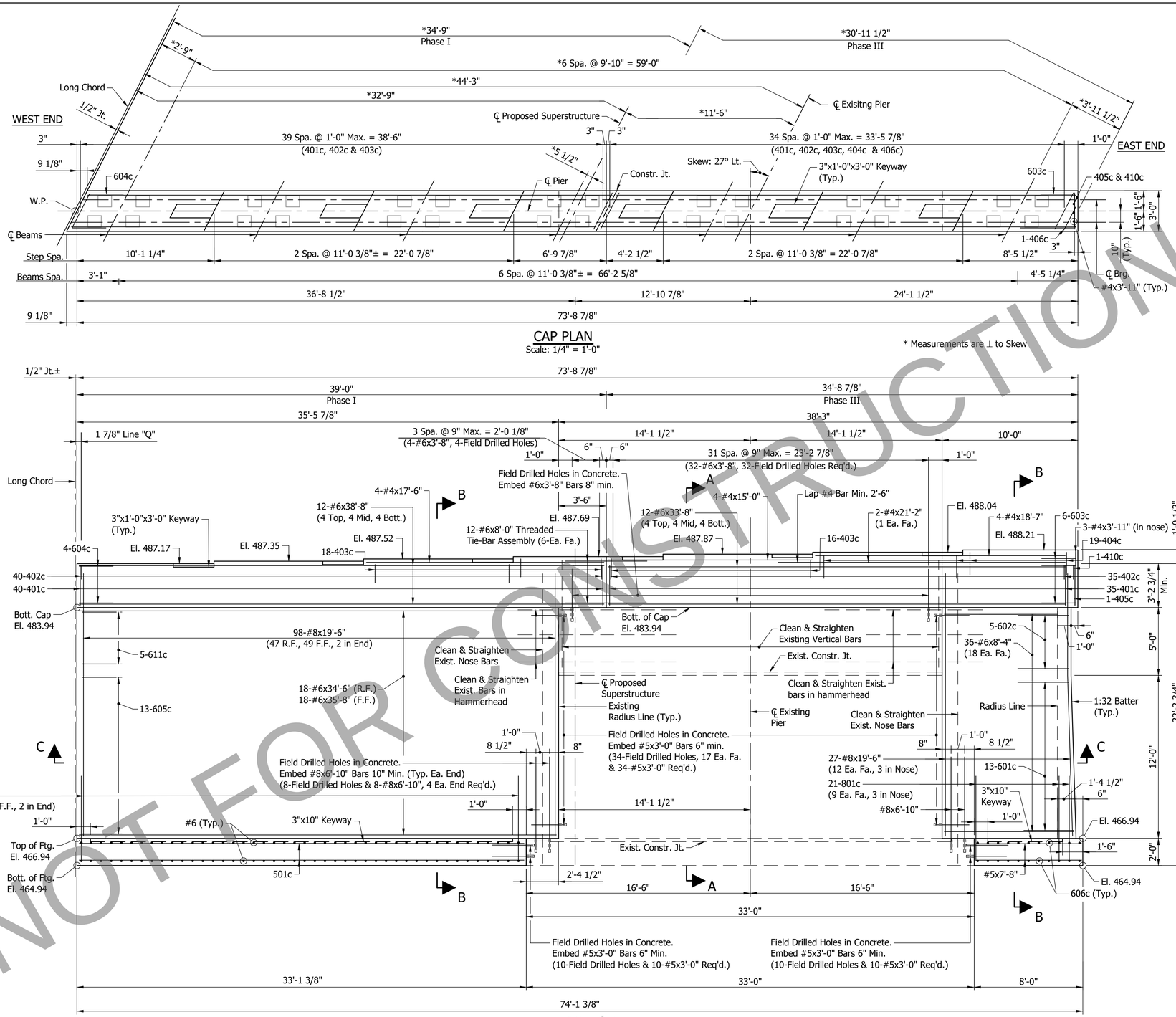
DESIGNED: APL | DRAWN: NW
CHECKED: RTW | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 2
REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C13 of C57	25 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew

ELEVATION
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-6" (#4E to #4E)

Notes:

For General Notes, see Dwg.C4.

For Sections A-A & B-B,see Dwg.C18.

For Section C-C, see Dwg.C15.

For Field Drilled Hole Pattern, see Dwg.C18

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

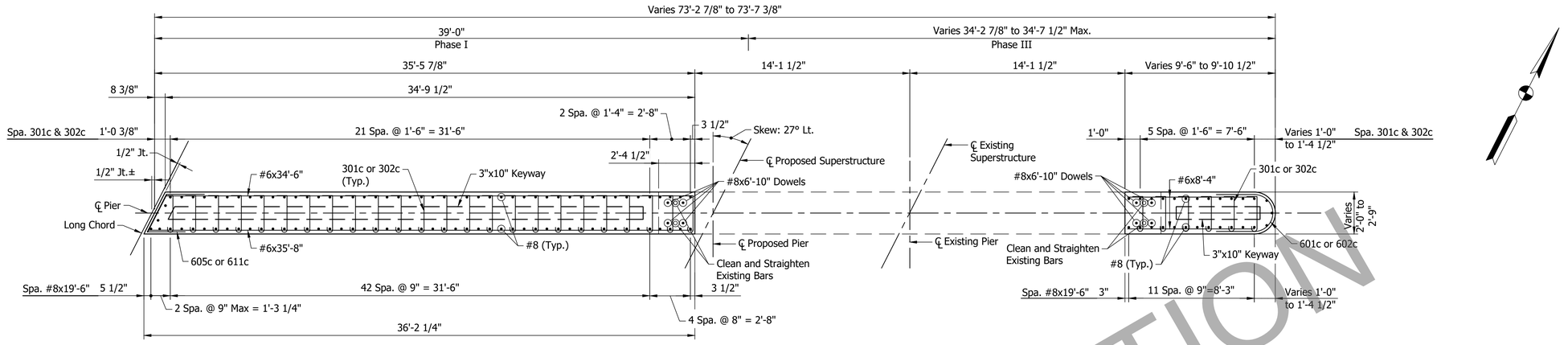
INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

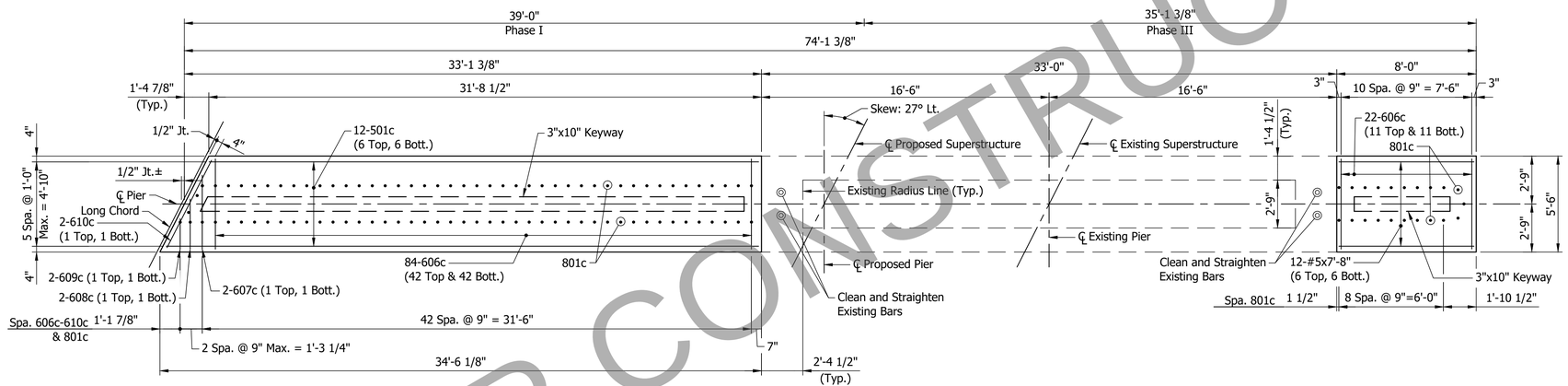
PIER NO. 2
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C14 of C57	26 of 71
CONTRACT	PROJECT
R-41529	1700135



SECTION C-C
Scale: 1/4" = 1'-0"



FOOTING PLAN
Scale: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C, see Dwg.C14.

For Field Drilled Hole Pattern, see Dwg.C18.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

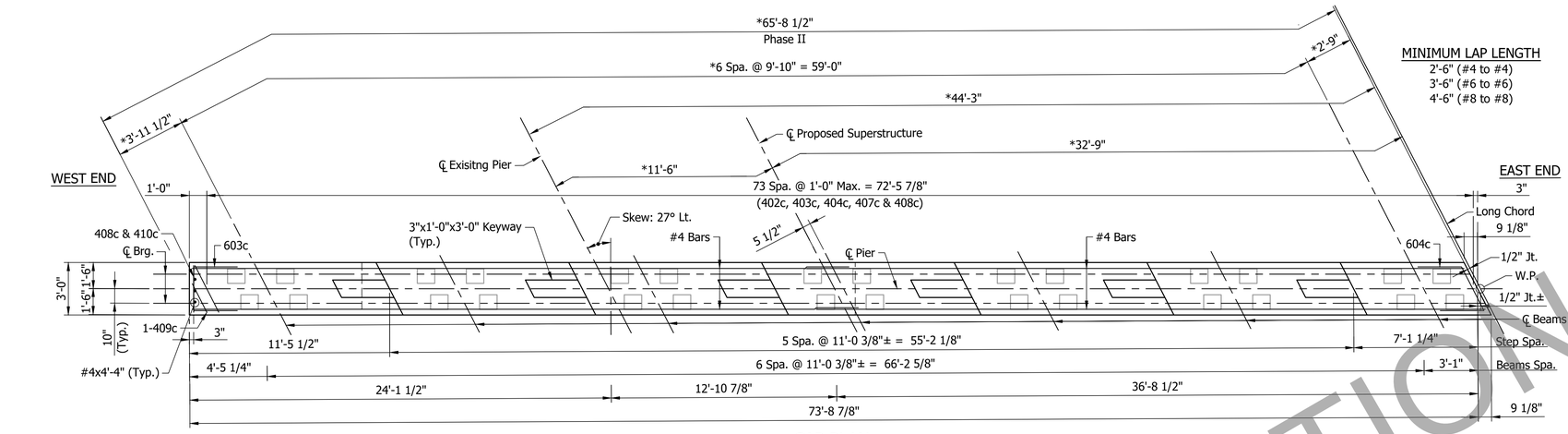
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO.2
NBL RECONSTRUCTION DETAILS

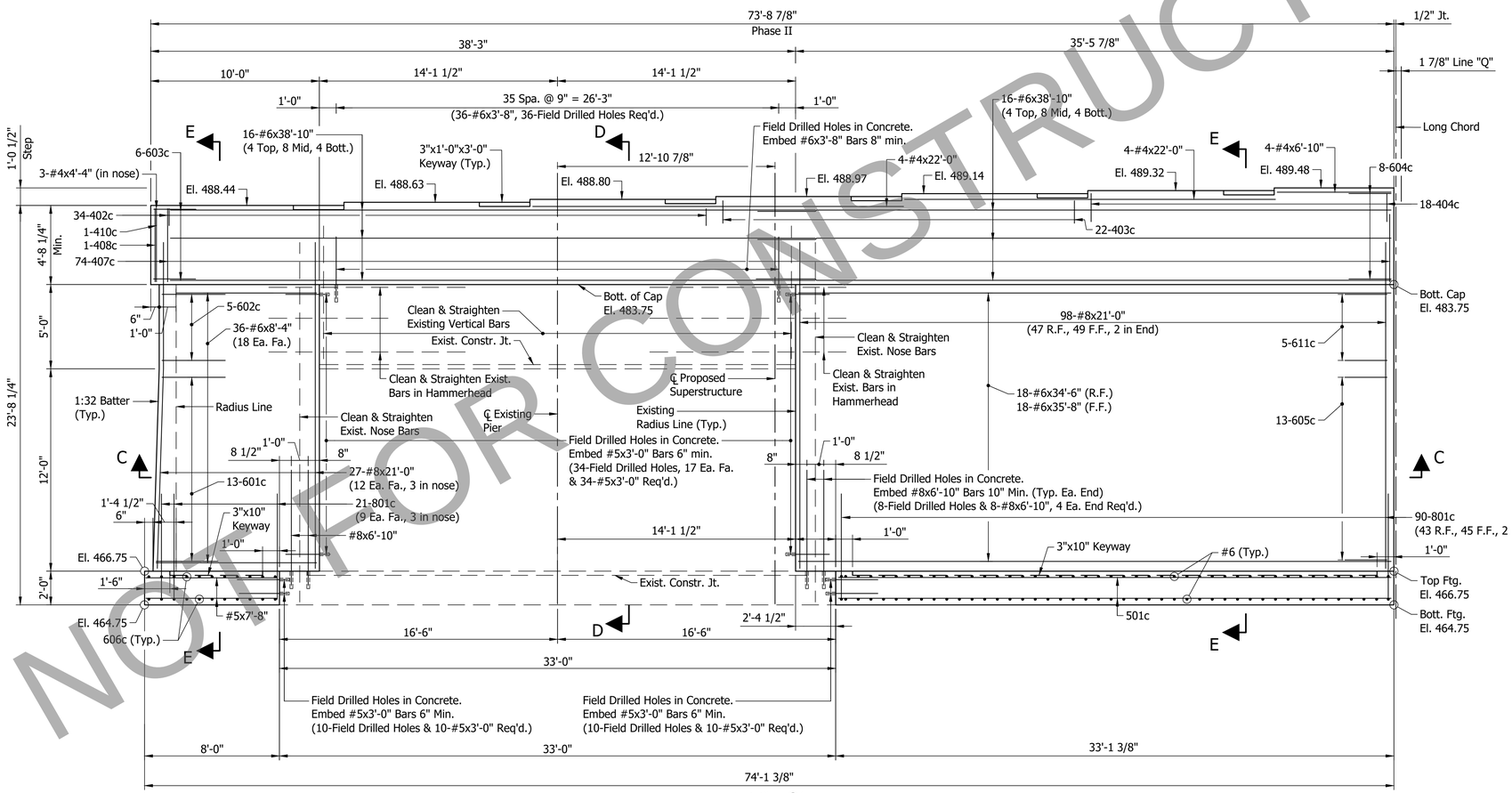
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C15 of C57	27 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



ELEVATION
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.

For Sections D-D & E-E,see Dwg.C18.

For Section C-C, see Dwg.C17.

For Field Drilled Hole Pattern, see Dwg.C18

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB

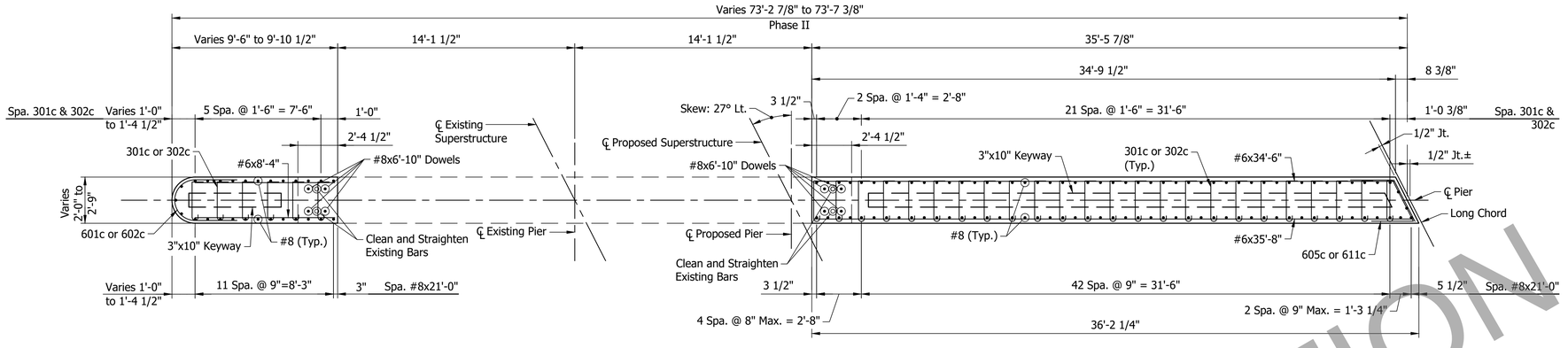
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

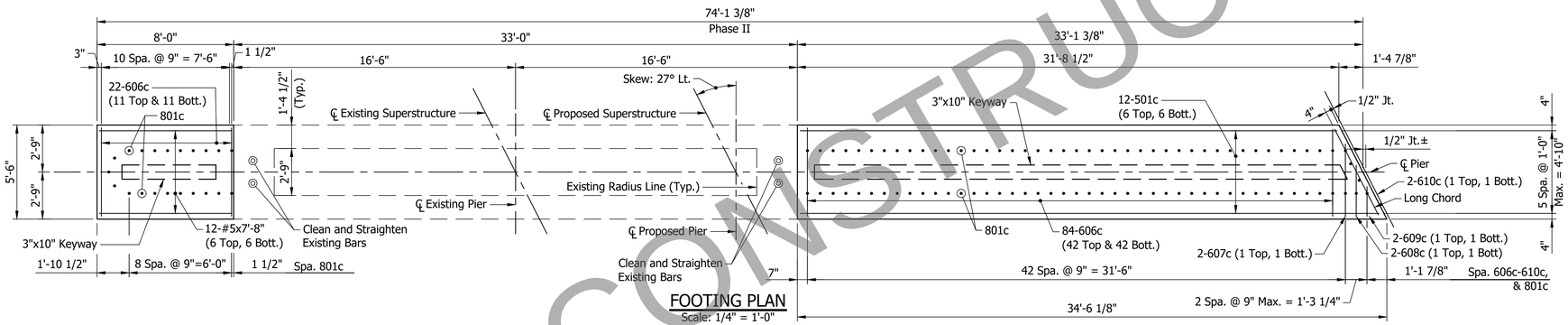
PIER NO. 2
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C16 of C57	28 of 71
CONTRACT	PROJECT
R-41529	1700135



SECTION C-C
Scale: 1/4" = 1'-0"



FOOTING PLAN
Scale: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C, see Dwgs.C16.

For Field Drilled Hole Pattern, see Dwg.C18.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

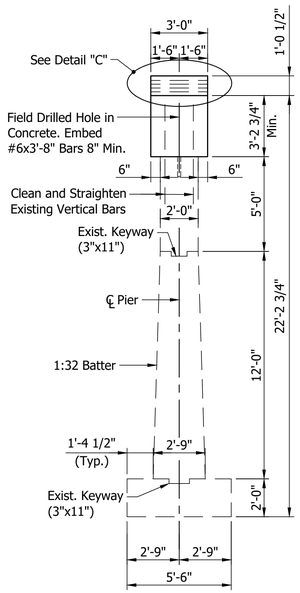
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

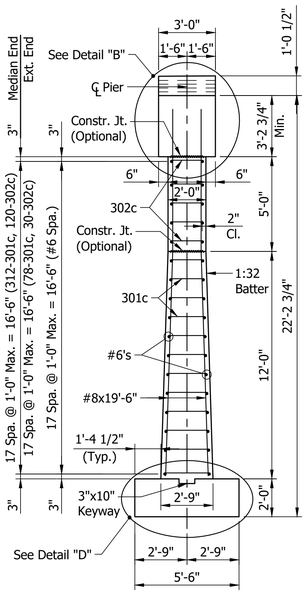
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 2
SBL RECONSTRUCTION DETAILS

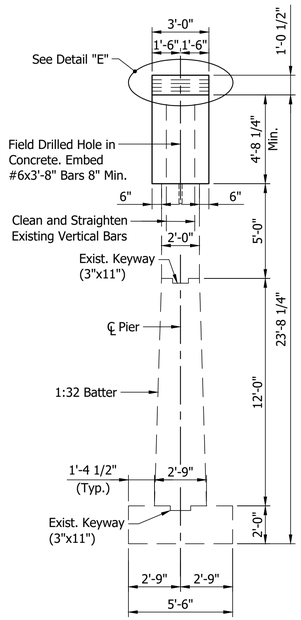
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C17 of C57	29 of 71
CONTRACT	PROJECT
R-41529	1700135



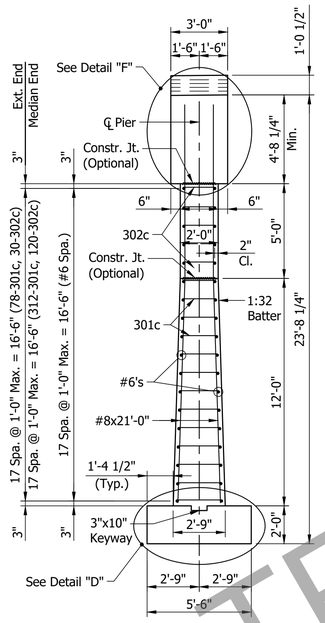
SECTION A-A
Scale: 1/4" = 1'-0"



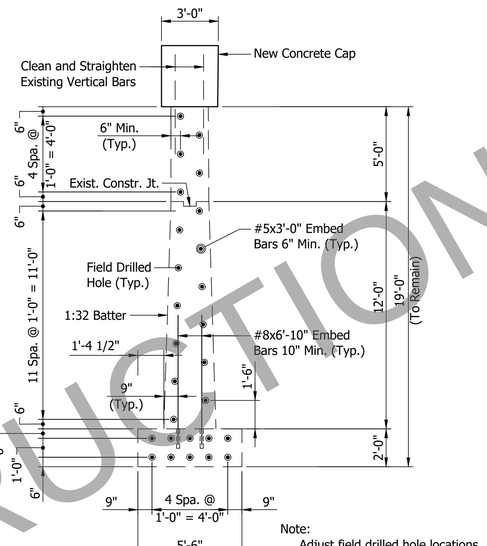
SECTION B-B
Scale: 1/4" = 1'-0"



SECTION D-D
Scale: 1/4" = 1'-0"

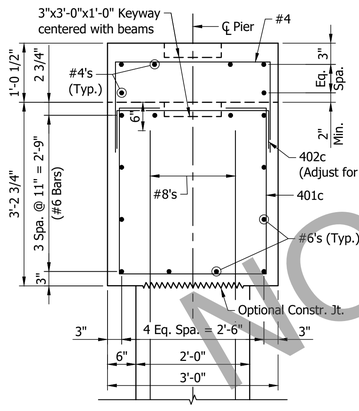


SECTION E-E
Scale: 1/4" = 1'-0"

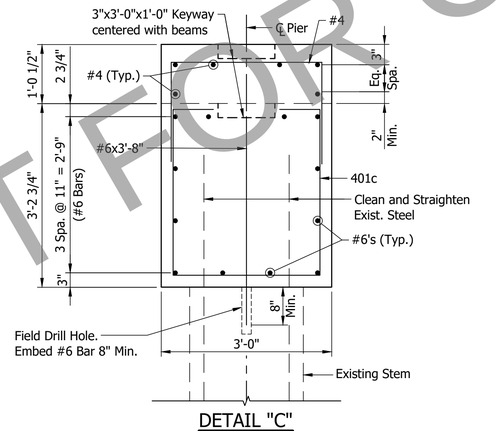


FIELD DRILLED HOLE LAYOUT
Scale: 1/4" = 1'-0"

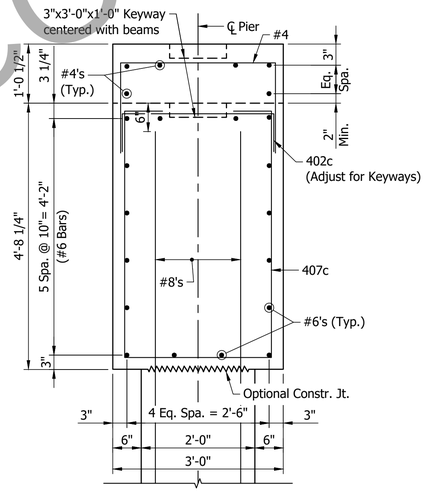
Note:
Adjust field drilled hole locations as necessary to avoid existing reinforcing steel.



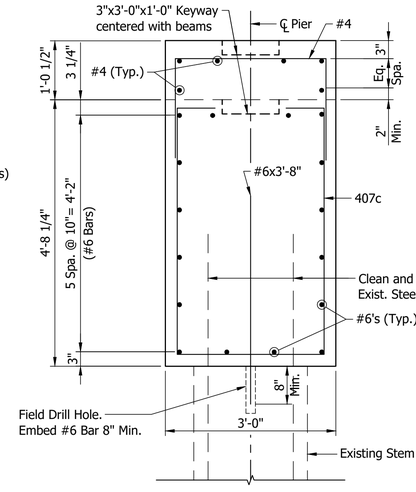
DETAIL "B"
Scale: 3/4" = 1'-0"



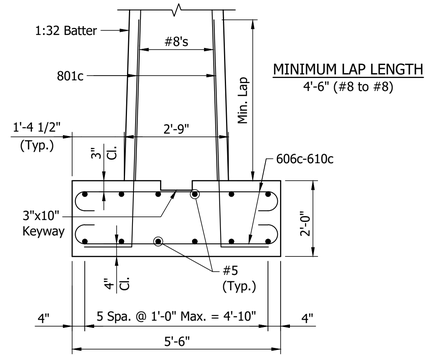
DETAIL "C"
Scale: 3/4" = 1'-0"



DETAIL "E"
Scale: 3/4" = 1'-0"



DETAIL "F"
Scale: 3/4" = 1'-0"



MINIMUM LAP LENGTH
4'-6" (#8 to #8)

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

Notes:
For General Notes, see Dwg.C4.
For Location of Section A-A, B-B, D-D & E-E see Dwg.C14 & C16.
For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

NOT FOR CONSTRUCTION

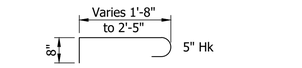
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

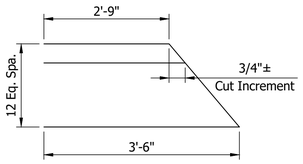
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

PIER NO.2 DETAILS

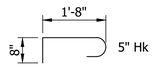
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C18 of C57	30 of 71
CONTRACT	PROJECT
R-41529	1700135



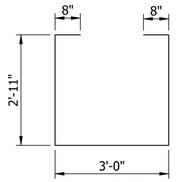
301c



301c x 3'-2" AVG.
(Cuts 13 Bars)
(60 Sets Req'd.)

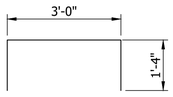


302c x 2'-9"

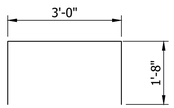


401c x 10'-2"

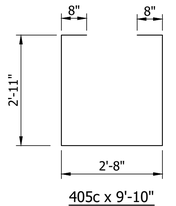
402c x 5'-0"



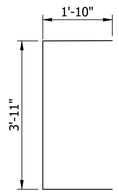
403c x 5'-8"



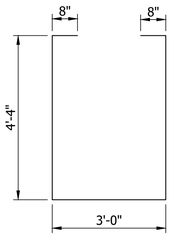
404c x 6'-4"



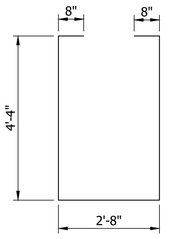
405c x 9'-10"



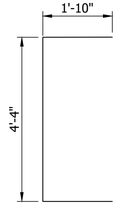
406c x 7'-7"



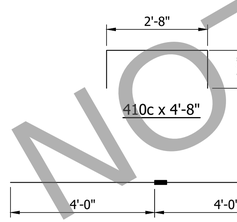
407c x 13'-0"



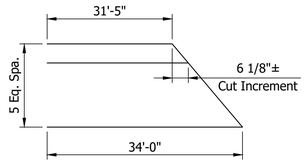
408c x 12'-8"



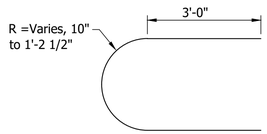
409c x 8'-0"



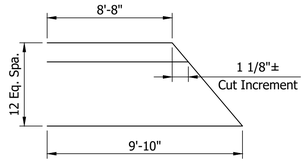
THREADED TIE-BAR ASSEMBLY, EPOXY COATED



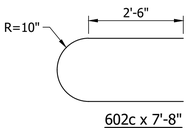
501c x 32'-9" AVG.
(Cuts 6 Bars)
(4 Sets Req'd.)



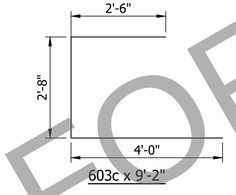
601c



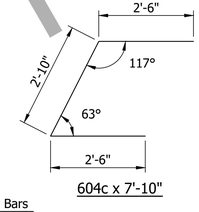
601c x 9'-3" AVG.
(Cuts 13 Bars)
(2 Sets Req'd.)



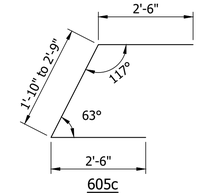
602c x 7'-8"



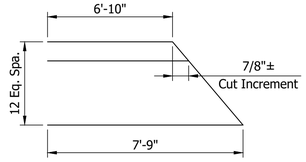
603c x 9'-2"



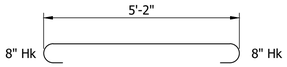
604c x 7'-10"



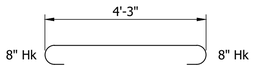
605c



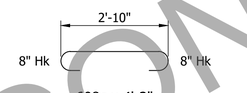
605c x 7'-4" AVG.
(Cuts 13 Bars)
(2 Sets Req'd.)



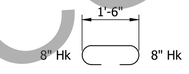
606c x 6'-6"



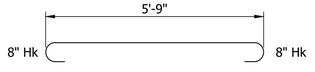
607c x 5'-7"



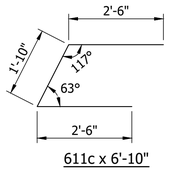
608c x 4'-2"



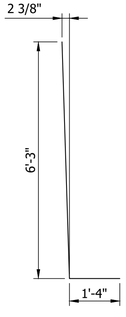
609c x 2'-10"



610c x 7'-1"



611c x 6'-10"



801c x 7'-7"

BILL OF MATERIALS

NBL PIER NO.2 - PHASE I

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	90	7'-7"	
#8	98	19'-6"	
#8	4	6'-10"	
Total #8			6997
604c	4	7'-10"	
605c	13	7'-4"	
606c	84	6'-6"	
607c	2	5'-7"	
608c	2	4'-2"	
609c	2	2'-10"	
610c	2	7'-1"	
611c	5	6'-10"	
#6	12	38'-8"	
#6	18	35'-8"	
#6	18	34'-6"	
#6	4	3'-8"	
Total #6			3737
501c	12	32'-9"	
#5	27	3'-0"	
Total #5			494
401c	40	10'-2"	
402c	40	5'-0"	
403c	18	5'-8"	
#4	4	17'-6"	
Total #4			521
301c	312	3'-2"	
302c	120	2'-9"	
Total #3			496
Total Reinforcing Bars			12245
Concrete Class "B" in Footing			13.6 Cys.
Concrete Class "A" in Substructure			66.0 Cys.
MISCELLANEOUS			
Excavation, X			52 Cys.
Excavation, Foundation, Unclassified			19 Cys.
Threaded Tie-Bar Assembly, E.C. (#6)			12 Ea.
Field Drilled Hole in Concrete			35 Ea.
Patching Concrete Structures			15 Sft.
Surface Seal (Est. Quantity)			3 Sft.

BILL OF MATERIALS

NBL PIER NO.2 - PHASE III

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	21	7'-7"	
#8	27	19'-6"	
#8	4	6'-10"	
Total #8			1904
601c	13	9'-3"	
602c	5	7'-8"	
603c	6	9'-2"	
606c	22	6'-6"	
#6	12	33'-8"	
#6	36	8'-4"	
#6	32	3'-8"	
Total #6			1770
#5	12	7'-8"	
#5	27	3'-0"	
Total #5			180
401c	35	10'-2"	
402c	35	5'-0"	
403c	16	5'-8"	
404c	19	6'-4"	
405c	1	9'-10"	
406c	1	7'-7"	
410c	1	4'-8"	
#4	2	21'-2"	
#4	4	18'-7"	
#4	4	15'-0"	
#4	3	3'-11"	
Total #4			637
301c	78	3'-2"	
302c	30	2'-9"	
Total #3			124
Total Reinforcing Bars			4615
Concrete Class "B" in Footing			3.3 Cys.
Concrete Class "A" in Substructure			29.2 Cys.
MISCELLANEOUS			
Excavation, X			13 Cys.
Excavation, Foundation, Unclassified			5 Cys.
Field Drilled Hole in Concrete			63 Ea.
Patching Concrete Structures			15 Sft.
Surface Seal (Est. Quantity)			6 Sft.

BILL OF MATERIALS

SBL PIER NO.2 - PHASE II

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	111	7'-7"	
#8	125	21'-0"	
#8	8	6'-10"	
Total #8			9402
601c	13	9'-3"	
602c	5	7'-8"	
603c	6	9'-2"	
604c	8	7'-10"	
605c	13	7'-4"	
606c	106	6'-6"	
607c	2	5'-7"	
608c	2	4'-2"	
609c	2	2'-10"	
610c	2	7'-1"	
611c	5	6'-10"	
#6	32	38'-10"	
#6	18	35'-8"	
#6	18	34'-6"	
#6	36	8'-4"	
#6	36	3'-8"	
Total #6			6116
501c	12	32'-9"	
#5	12	7'-8"	
#5	54	3'-0"	
Total #5			675
402c	34	5'-0"	
403c	22	5'-8"	
404c	18	6'-4"	
407c	74	13'-0"	
408c	1	12'-8"	
409c	1	8'-0"	
410c	1	4'-8"	
#4	8	22'-0"	
#4	4	6'-10"	
#4	3	4'-4"	
Total #4			1077
301c	390	3'-2"	
302c	150	2'-9"	
Total #3			620
Total Reinforcing Bars			17890
Concrete Class "B" in Footing			16.8 Cys.
Concrete Class "A" in Substructure			107.4 Cys.
MISCELLANEOUS			
Excavation, X			66 Cys.
Excavation, Foundation, Unclassified			24 Cys.
Field Drilled Hole in Concrete			98 Ea.
Patching Concrete Structures			10 Sft.
Surface Seal (Est. Quantity)			9 Sft.

Notes:

For General Notes, see Dwg.C4.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB

CHECKED: APL | CHECKED: APL

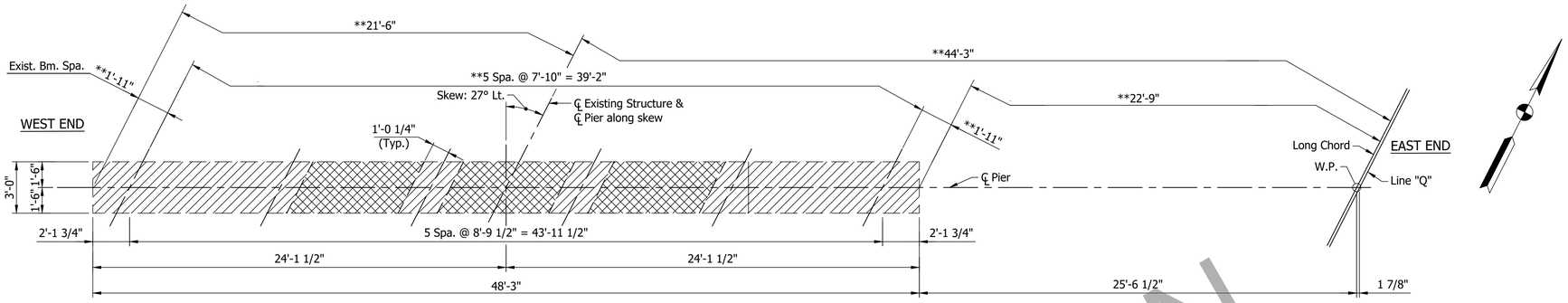
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO.2 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C19 of C57	31 of 71
CONTRACT	PROJECT
R-41529	1700135

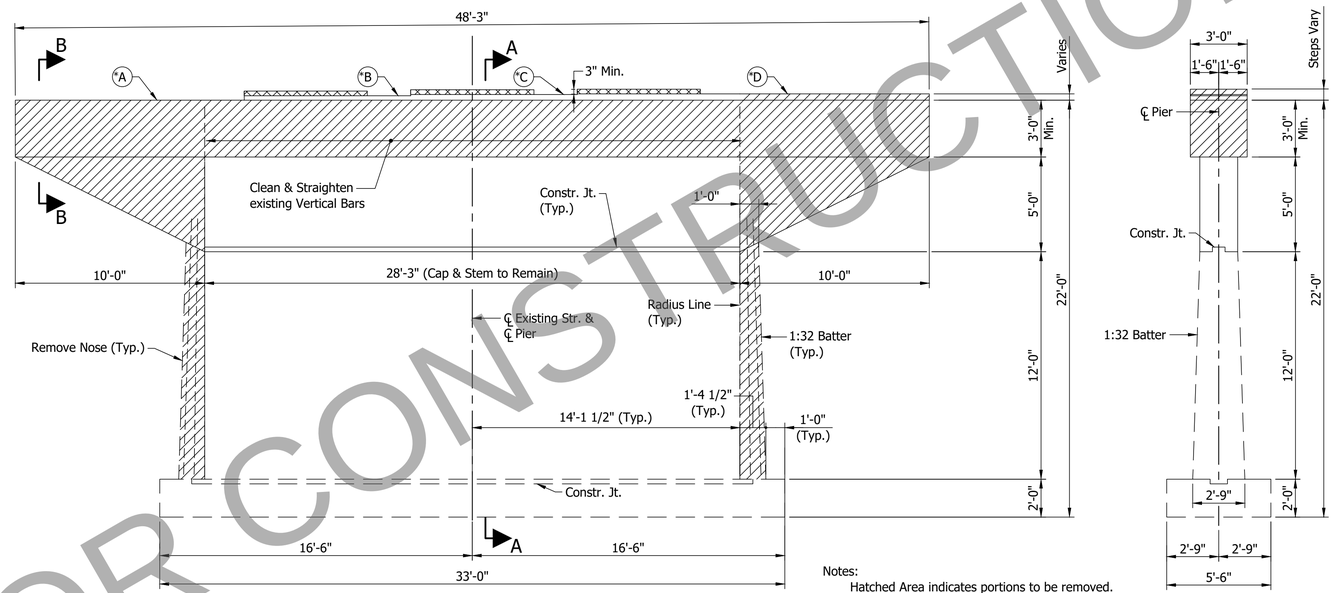
TABLE OF ELEVATIONS		
ELEVATION POINT	PIER NO.3	
	SOUTHBOUND	NORTHBOUND
"A"	486.57	486.76
"B"	486.80	486.89
"C"	486.87	486.96
"D"	486.90	487.00

* Contractor shall verify all existing bridge seat elevations.



CAP PLAN
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"

** Measurements are ⊥ to Skew

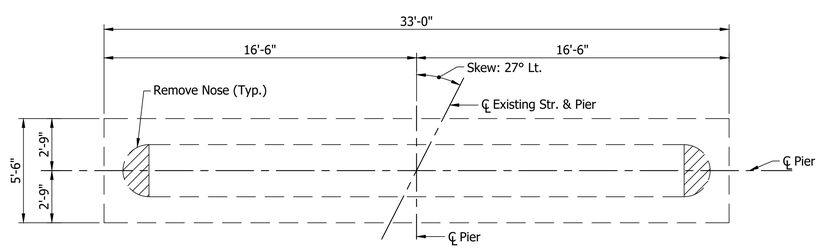


ELEVATION
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"

Notes:
Hatched Area indicates portions to be removed.

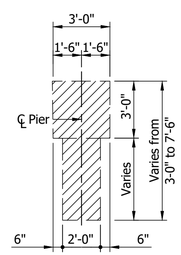
Temporary Shoring required at exterior hammer under phased construction.

Ext. Beam Dead Load = 70k (unfactored)
Live Load = 60k (unfactored per Lane)



FOOTING PLAN
(SBL SHOWN, NBL SIMILAR)
Scale: 1/4" = 1'-0"

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



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:
For General Notes, see Dwg.C4.

For Pier Reconstruction Details, see Dwgs.C21 & C24.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
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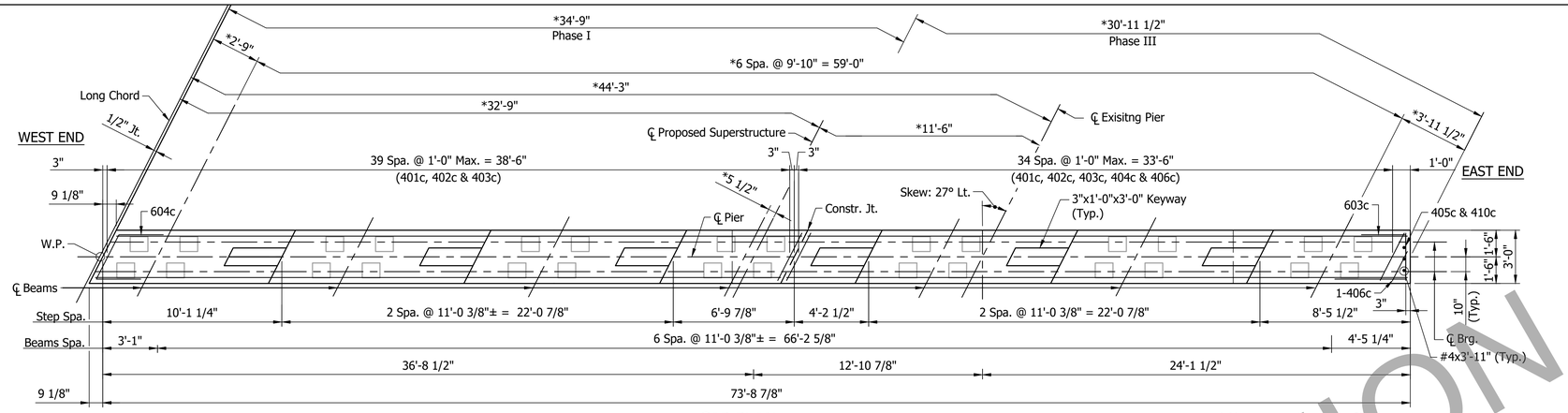
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 3
REMOVAL DETAILS

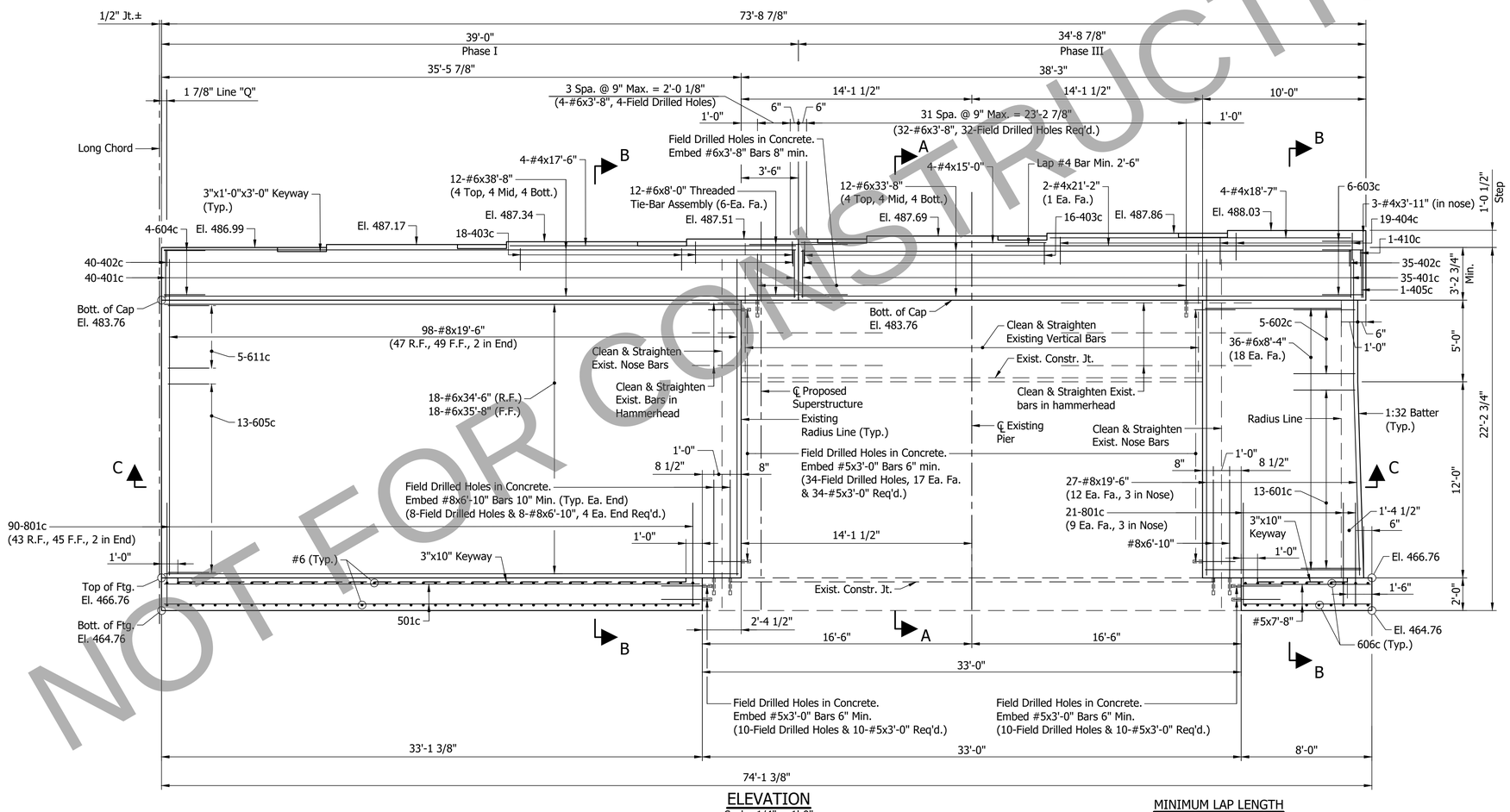
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C20 of C57	32 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



ELEVATION
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-6" (#4E to #4E)

Notes:

For General Notes, see Dwg.C4.

For Sections A-A & B-B,see Dwg.C25.

For Section C-C, see Dwg.C22.

For Field Drilled Hole Pattern, see Dwg.C25.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

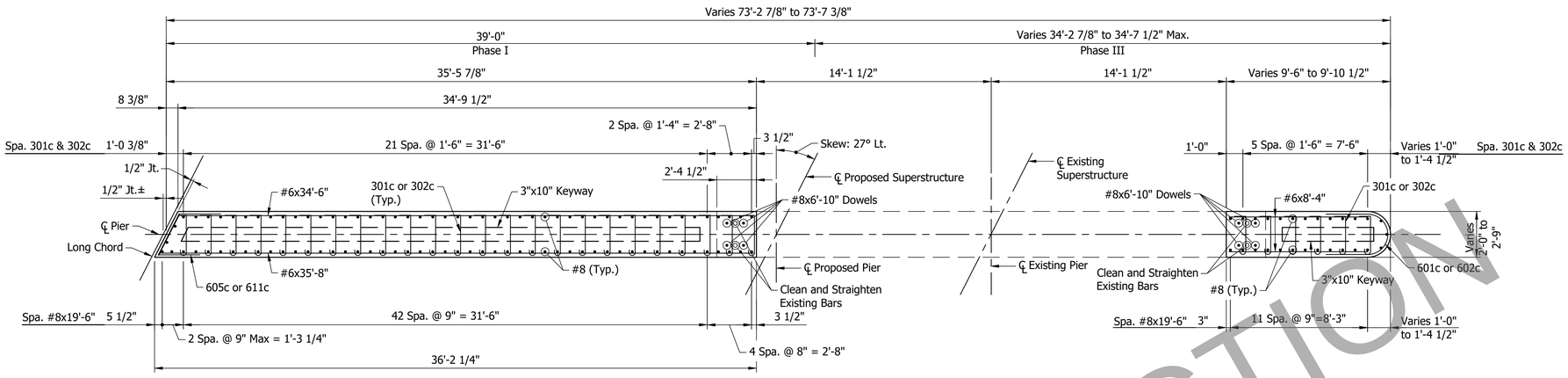
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

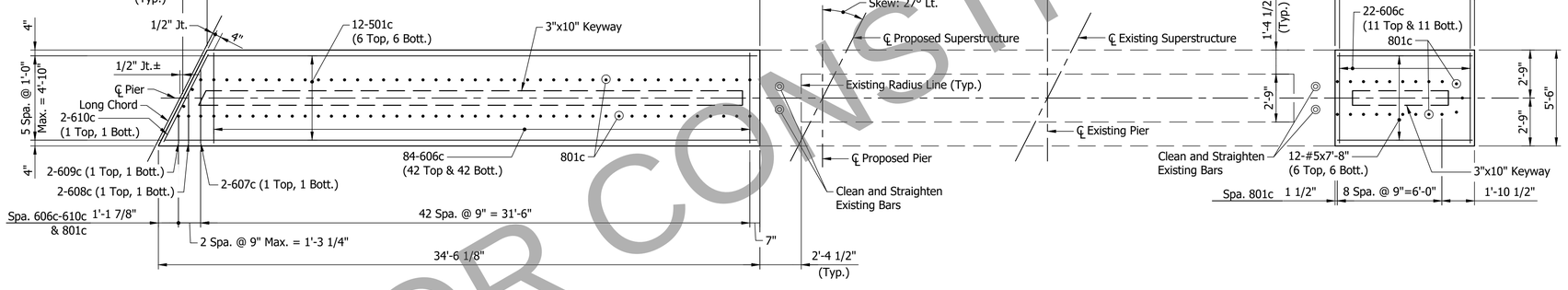
PIER NO. 3
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C21 of C57	33 of 71
CONTRACT	PROJECT
R-41529	1700135



SECTION C-C
Scale: 1/4" = 1'-0"



FOOTING PLAN
Scale: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C, see Dwg.C21.

For Field Drilled Hole Pattern, see Dwg.C25.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

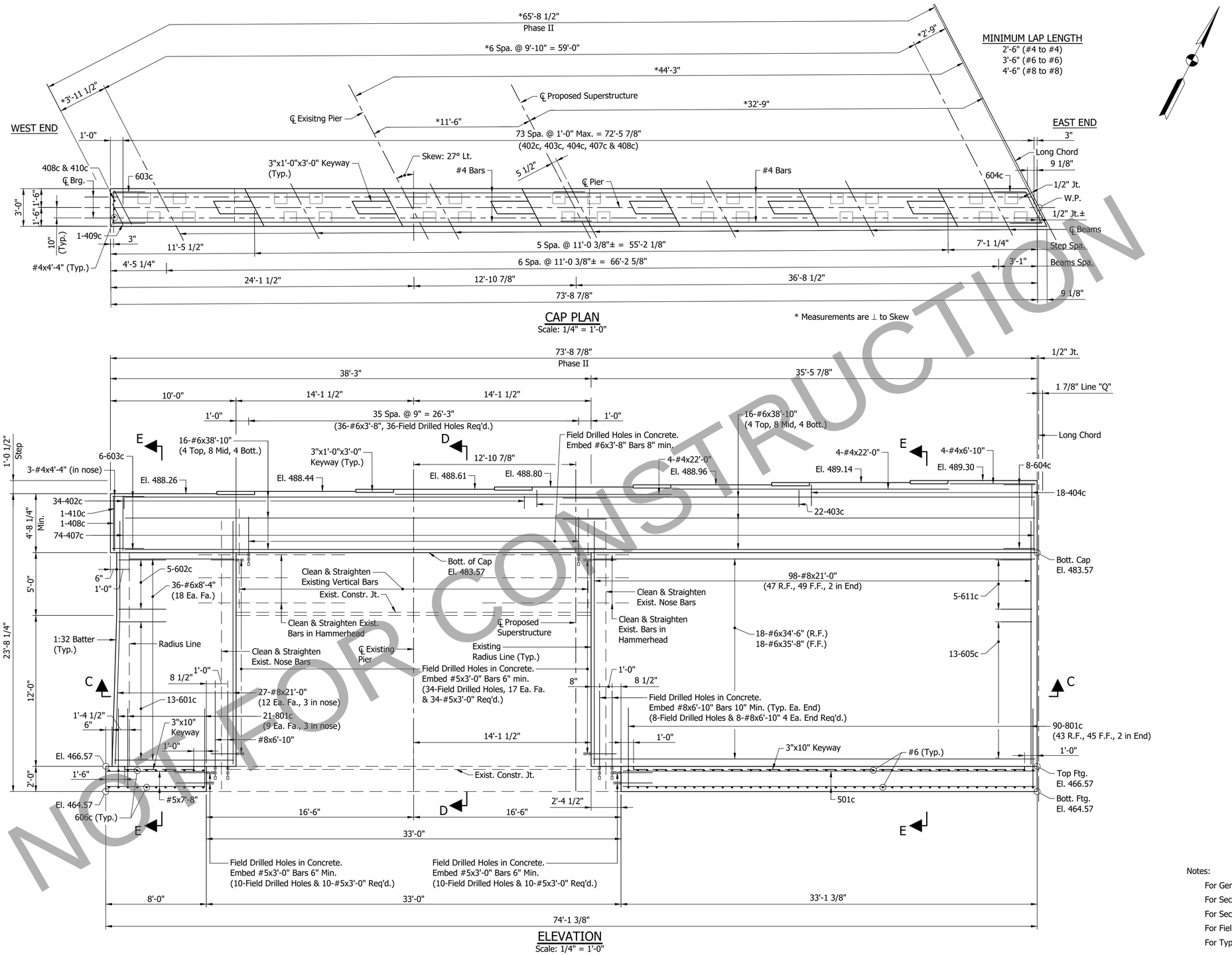
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 3
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C22 of C57	34 of 71
CONTRACT	PROJECT
R-41529	1700135



ELEVATION
Scale: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Sections D-D & E-E,see Dwg.C25.

For Section C-C, see Dwg.C24.

For Field Drilled Hole Pattern, see Dwg.C25.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB

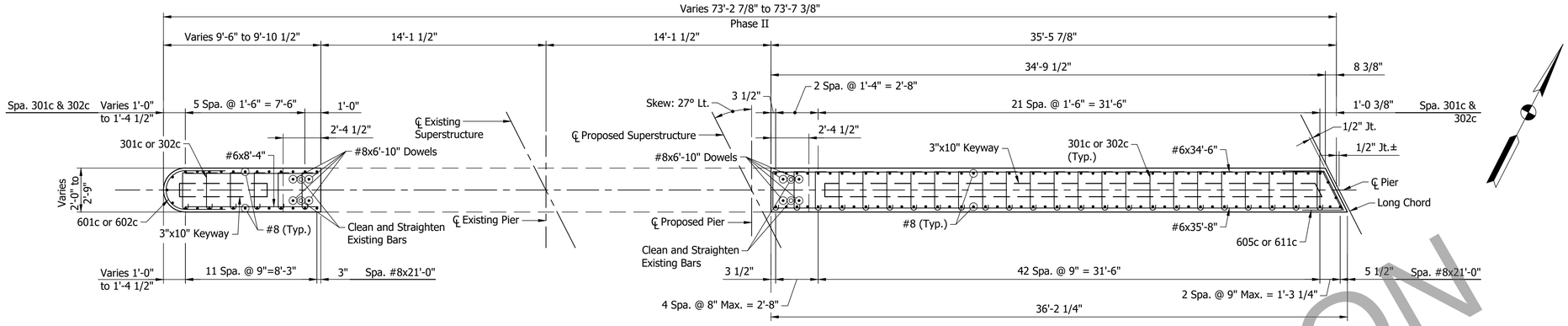
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

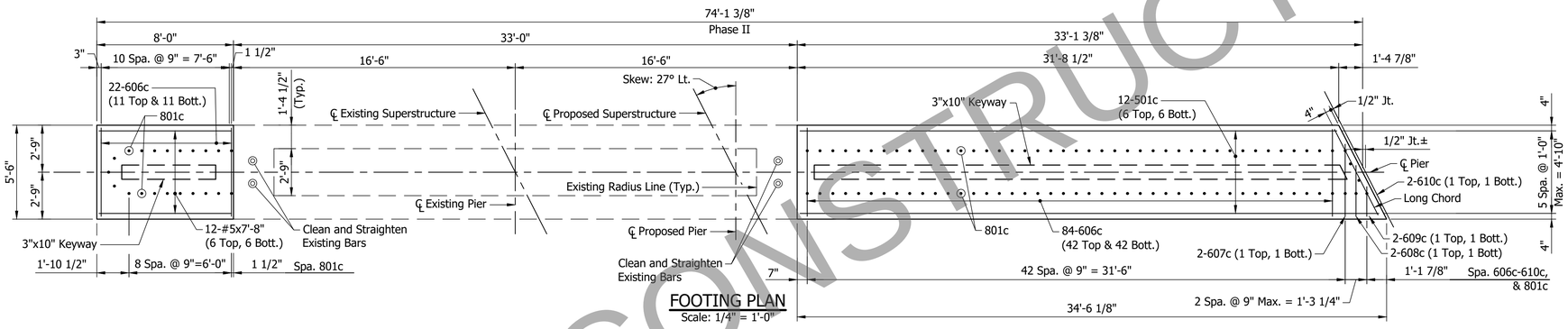
PIER NO. 3
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C23 of C57	35 of 71
CONTRACT	PROJECT
R-41529	1700135



SECTION C-C
Scale: 1/4" = 1'-0"



FOOTING PLAN
Scale: 1/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C, see Dwgs.C23.

For Field Drilled Hole Pattern, see Dwg.C25.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

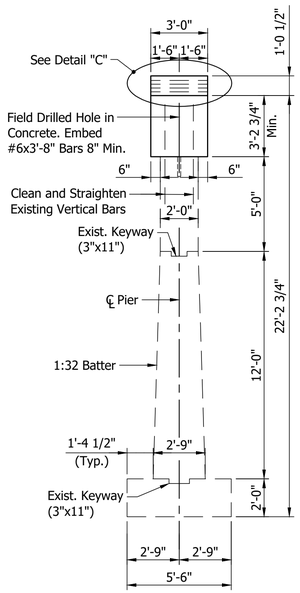
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

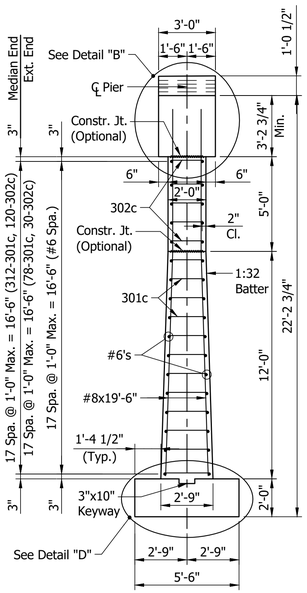
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 3
SBL RECONSTRUCTION DETAILS

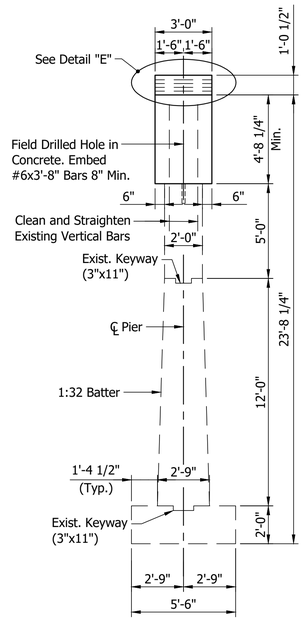
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C24 of C57	36 of 71
CONTRACT	PROJECT
R-41529	1700135



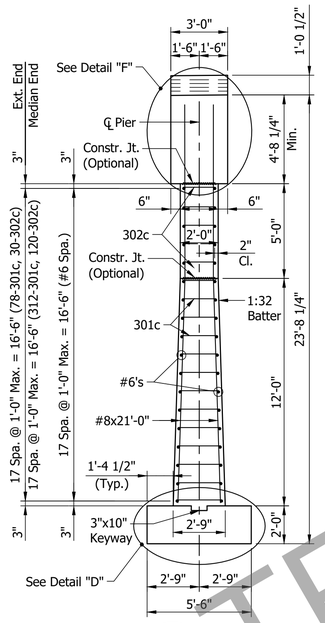
SECTION A-A
Scale: 1/4" = 1'-0"



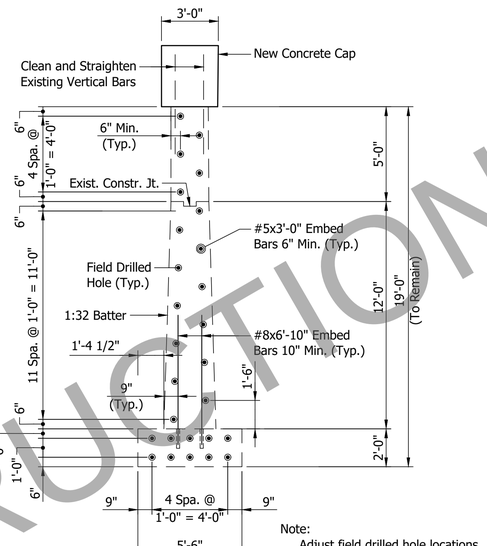
SECTION B-B
Scale: 1/4" = 1'-0"



SECTION D-D
Scale: 1/4" = 1'-0"

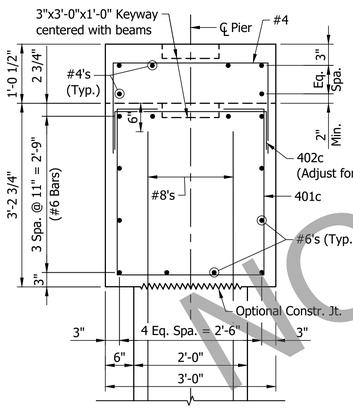


SECTION E-E
Scale: 1/4" = 1'-0"

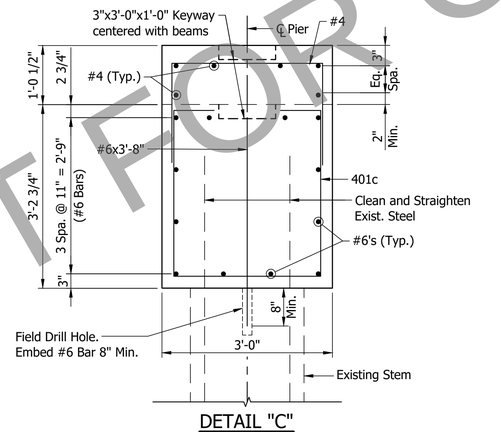


FIELD DRILLED HOLE LAYOUT
Scale: 1/4" = 1'-0"

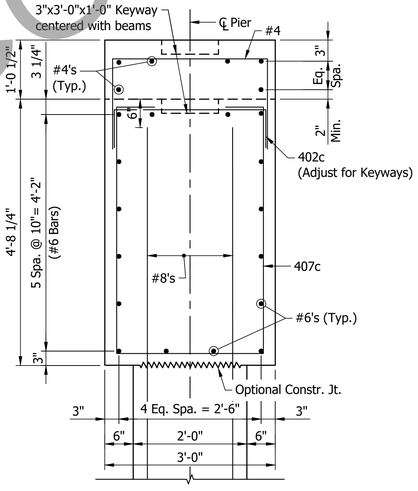
Note:
Adjust field drilled hole locations as necessary to avoid existing reinforcing steel.



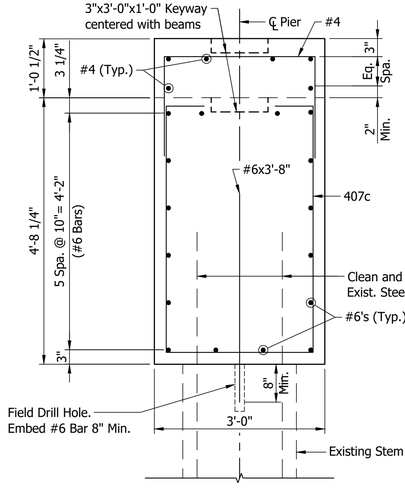
DETAIL "B"
Scale: 3/4" = 1'-0"



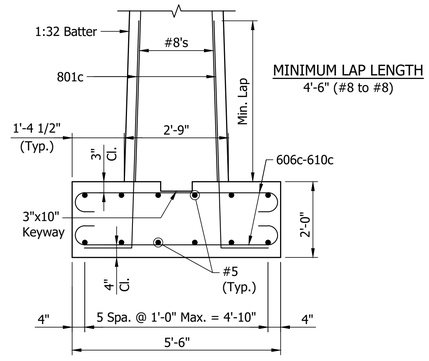
DETAIL "C"
Scale: 3/4" = 1'-0"



DETAIL "E"
Scale: 3/4" = 1'-0"



DETAIL "F"
Scale: 3/4" = 1'-0"



MINIMUM LAP LENGTH
4'-6" (#8 to #8)

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

Notes:
For General Notes, see Dwg.C4.
For Location of Section A-A, B-B, D-D & E-E, see Dwgs.C21 & C23.
For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
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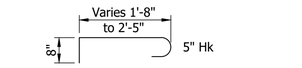
INDIANA
DEPARTMENT OF TRANSPORTATION

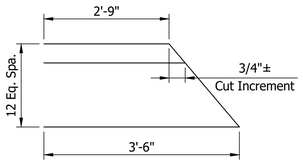
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

PIER NO.3 DETAILS

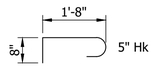
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C25 of C57	37 of 71
CONTRACT	PROJECT
R-41529	1700135



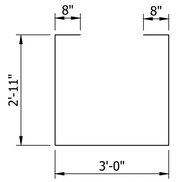
301c



301c x 3'-2" AVG.
(Cuts 13 Bars)
(60 Sets Req'd.)

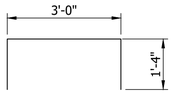


302c x 2'-9"

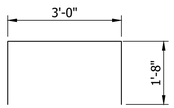


401c x 10'-2"

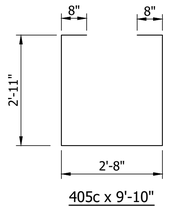
402c x 5'-0"



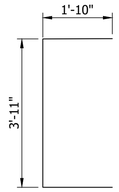
403c x 5'-8"



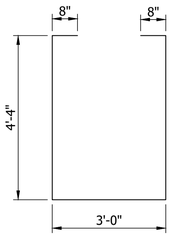
404c x 6'-4"



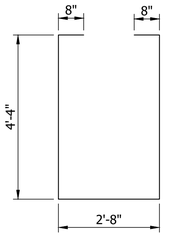
405c x 9'-10"



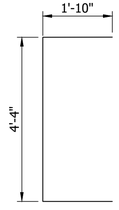
406c x 7'-7"



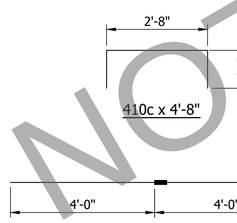
407c x 13'-0"



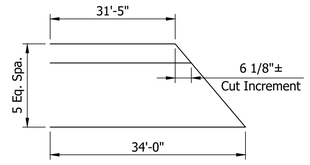
408c x 12'-8"



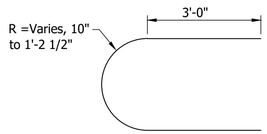
409c x 8'-0"



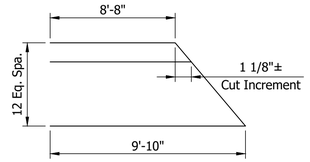
THREADED TIE-BAR ASSEMBLY, EPOXY COATED



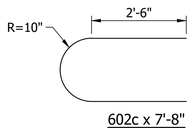
501c x 32'-9" AVG.
(Cuts 6 Bars)
(4 Sets Req'd.)



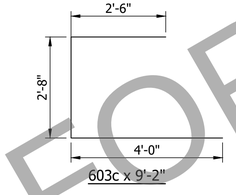
601c



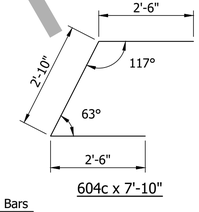
601c x 9'-3" AVG.
(Cuts 13 Bars)
(2 Sets Req'd.)



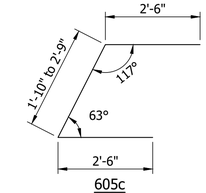
602c x 7'-8"



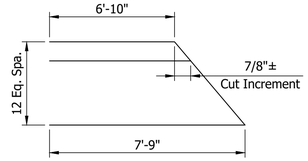
603c x 9'-2"



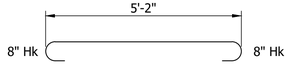
604c x 7'-10"



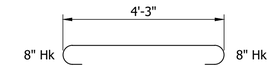
605c



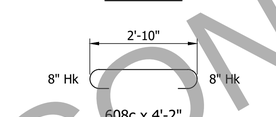
605c x 7'-4" AVG.
(Cuts 13 Bars)
(2 Sets Req'd.)



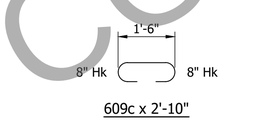
606c x 6'-6"



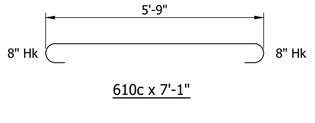
607c x 5'-7"



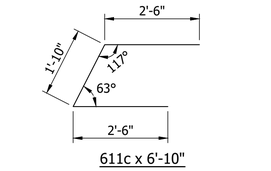
608c x 4'-2"



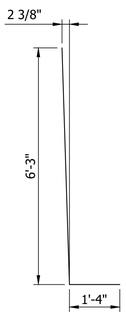
609c x 2'-10"



610c x 7'-1"



611c x 6'-10"



801c x 7'-7"

BILL OF MATERIALS

NBL PIER NO.3 - PHASE I

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	90	7'-7"	
#8	98	19'-6"	
#8	4	6'-10"	
Total #8			6997
604c	4	7'-10"	
605c	13	7'-4"	
606c	84	6'-6"	
607c	2	5'-7"	
608c	2	4'-2"	
609c	2	2'-10"	
610c	2	7'-1"	
611c	5	6'-10"	
#6	12	38'-8"	
#6	18	35'-8"	
#6	18	34'-6"	
#6	4	3'-8"	
Total #6			3737
501c	12	32'-9"	
#5	27	3'-0"	
Total #5			494
401c	40	10'-2"	
402c	40	5'-0"	
403c	18	5'-8"	
#4	4	17'-6"	
Total #4			521
301c	312	3'-2"	
302c	120	2'-9"	
Total #3			496
Total Reinforcing Bars			12245
Concrete Class "B" in Footing			13.6 Cys.
Concrete Class "A" in Substructure			66.0 Cys.

MISCELLANEOUS	
Excavation, X	42 Cys.
Excavation, Foundation, Unclassified	29 Cys.
Threaded Tie-Bar Assembly, E.C. (#6)	12 Ea.
Field Drilled Hole in Concrete	35 Ea.
Patching Concrete Structures	15 Sft.
Surface Seal (Est. Quantity)	3 Sft.

BILL OF MATERIALS

NBL PIER NO.3 - PHASE III

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	21	7'-7"	
#8	27	19'-6"	
#8	4	6'-10"	
Total #8			1904
601c	13	9'-3"	
602c	5	7'-8"	
603c	6	9'-2"	
606c	22	6'-6"	
#6	12	33'-8"	
#6	36	8'-4"	
#6	32	3'-8"	
Total #6			1770
#5	12	7'-8"	
#5	27	3'-0"	
Total #5			180
401c	35	10'-2"	
402c	35	5'-0"	
403c	16	5'-8"	
404c	19	6'-4"	
405c	1	9'-10"	
406c	1	7'-7"	
410c	1	4'-8"	
#4	2	21'-2"	
#4	4	18'-7"	
#4	4	15'-0"	
#4	3	4'-11"	
Total #4			639
301c	78	3'-2"	
302c	30	2'-9"	
Total #3			124
Total Reinforcing Bars			4617
Concrete Class "B" in Footing			3.3 Cys.
Concrete Class "A" in Substructure			29.2 Cys.

MISCELLANEOUS	
Excavation, X	10 Cys.
Excavation, Foundation, Unclassified	5 Cys.
Field Drilled Hole in Concrete	63 Ea.
Patching Concrete Structures	15 Sft.
Surface Seal (Est. Quantity)	6 Sft.

BILL OF MATERIALS

SBL PIER NO.3 - PHASE II

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
801c	111	7'-7"	
#8	125	21'-0"	
#8	8	6'-10"	
Total #8			9402
601c	13	9'-3"	
602c	5	7'-8"	
603c	6	9'-2"	
604c	8	7'-10"	
605c	13	7'-4"	
606c	106	6'-6"	
607c	2	5'-7"	
608c	2	4'-2"	
609c	2	2'-10"	
610c	2	7'-1"	
611c	5	6'-10"	
#6	32	38'-10"	
#6	18	35'-8"	
#6	18	34'-6"	
#6	36	8'-4"	
#6	36	3'-8"	
Total #6			6116
501c	12	32'-9"	
#5	12	7'-8"	
#5	54	3'-0"	
Total #5			675
402c	34	5'-0"	
403c	22	5'-8"	
404c	18	6'-4"	
407c	74	13'-0"	
408c	1	12'-8"	
409c	1	8'-0"	
410c	1	4'-8"	
#4	8	22'-0"	
#4	4	6'-10"	
#4	3	4'-4"	
Total #4			1077
301c	390	3'-2"	
302c	150	2'-9"	
Total #3			620
Total Reinforcing Bars			17890
Concrete Class "B" in Footing			16.8 Cys.
Concrete Class "A" in Substructure			107.4 Cys.

MISCELLANEOUS	
Excavation, X	54 Cys.
Excavation, Foundation, Unclassified	34 Cys.
Field Drilled Hole in Concrete	98 Ea.
Surface Seal (Est. Quantity)	9 Sft.

Notes:

For General Notes, see Dwg.C4.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

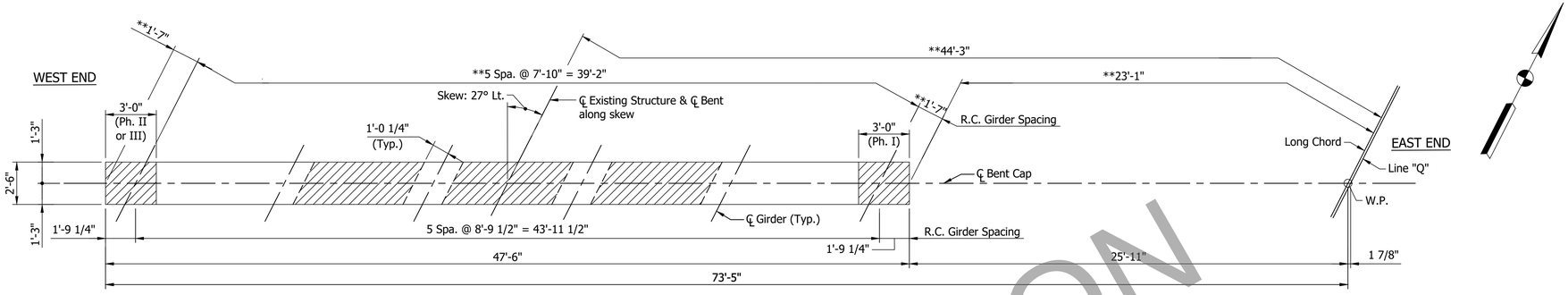
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO.3 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C26 of C57	38 of 71
CONTRACT	PROJECT
R-41529	1700135

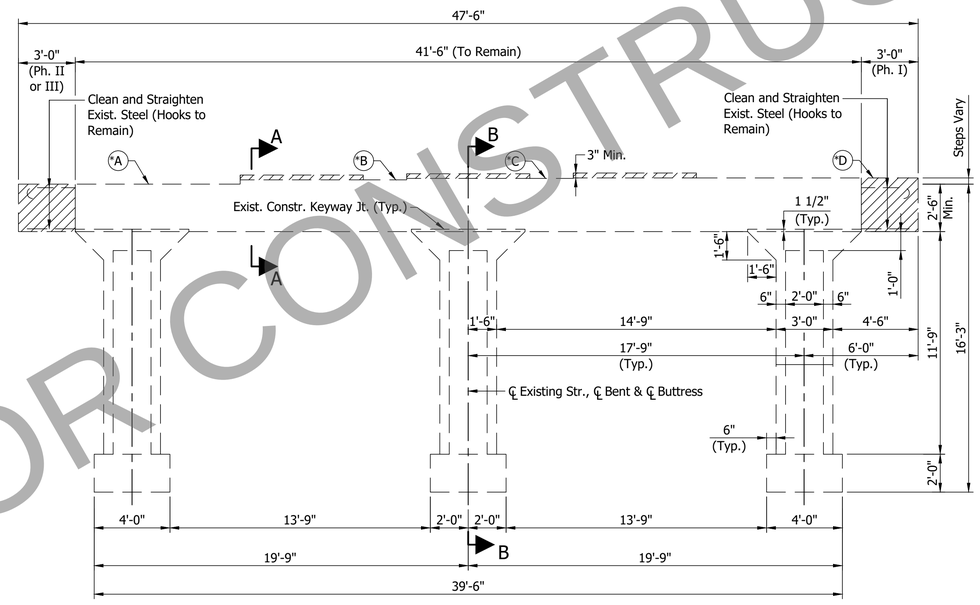
TABLE OF ELEVATIONS		
ELEVATION POINT	BENT NO.4	
	SOUTHBOUND	NORTHBOUND
"A"	486.41	486.60
"B"	486.64	486.73
"C"	486.71	486.80
"D"	486.74	486.84

* Contractor shall verify all existing bridge seat elevations.

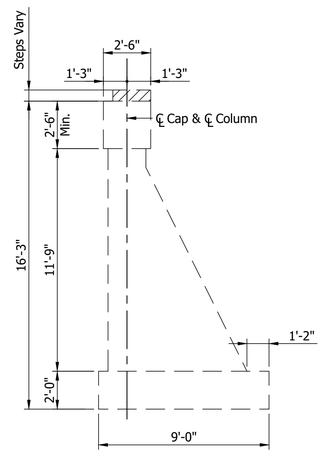


CAP PLAN
(SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND)
Scale: 1/4" = 1'-0"

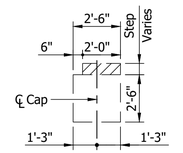
Note:
Hatched Areas indicate portions to be removed.
**Measurements are ⊥ to Skew.



ELEVATION
(SBL SHOWN, NBL CAP SIMILAR)
Scale: 1/4" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"



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

NOT FOR CONSTRUCTION

Notes:
For General Notes, see Dwg.C4.
For Reconstruction Details, see Dwgs.C28 - C33.

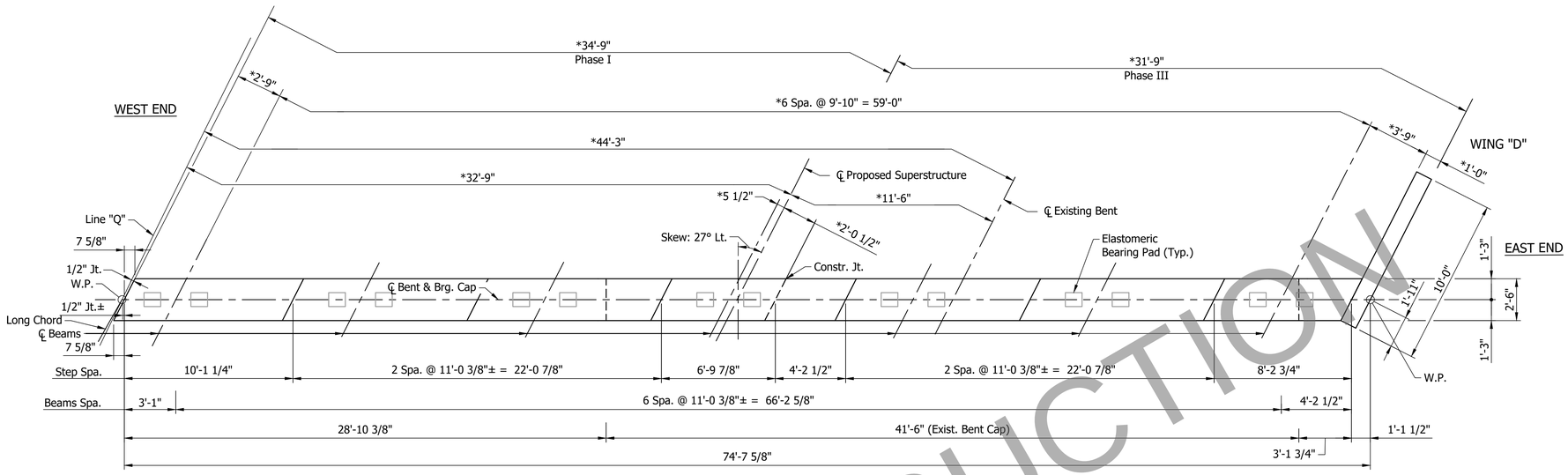
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

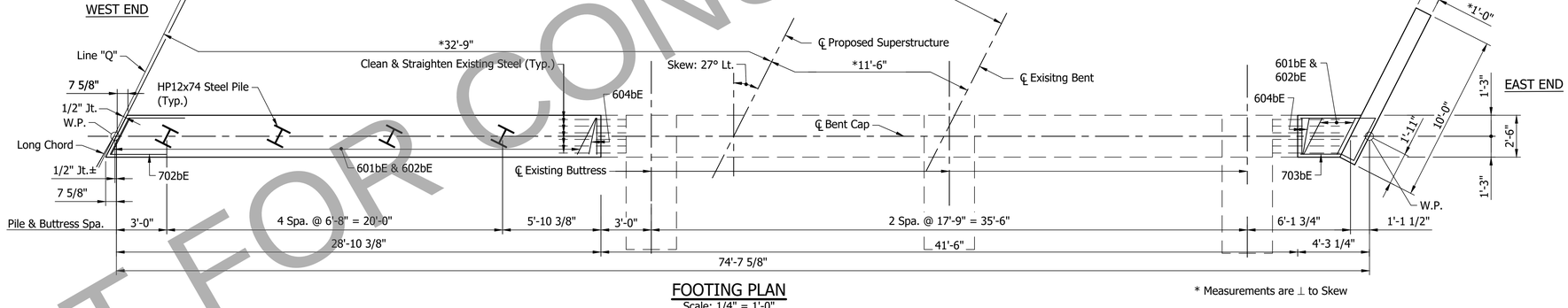
BENT NO. 4
REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C27 of C57	39 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



FOOTING PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Elevation View, see Dwg.C29.

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

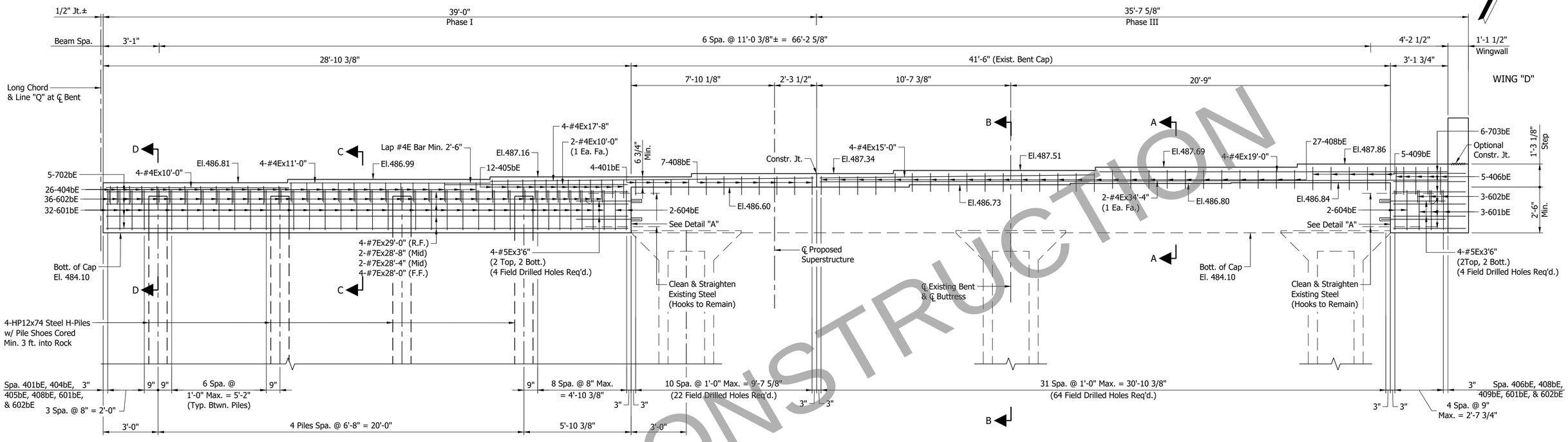
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

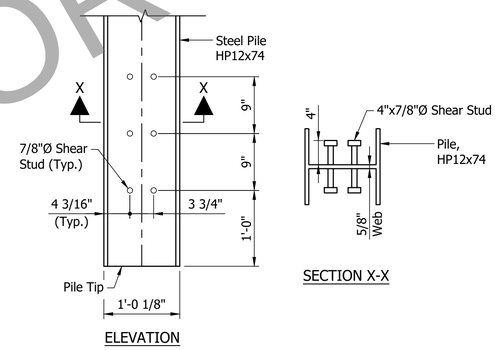
BENT NO.4
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	165-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C28 of C57	40 of 71
CONTRACT	PROJECT
R-41529	1700135



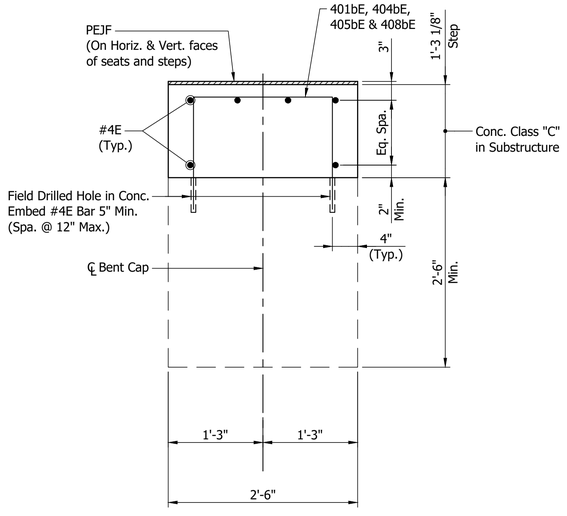
ELEVATION
Scale: 3/8" = 1'-0"



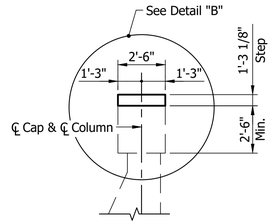
ELEVATION

SECTION X-X

PILE SHEAR STUD DETAIL
Scale: 1" = 1'-0"



DETAIL "B"
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Sections A-A, C-C, D-D and Detail "A", see Dwg.C32.

For Cap and Footing Plan, see Dwg.C28.

NOT FOR CONSTRUCTION

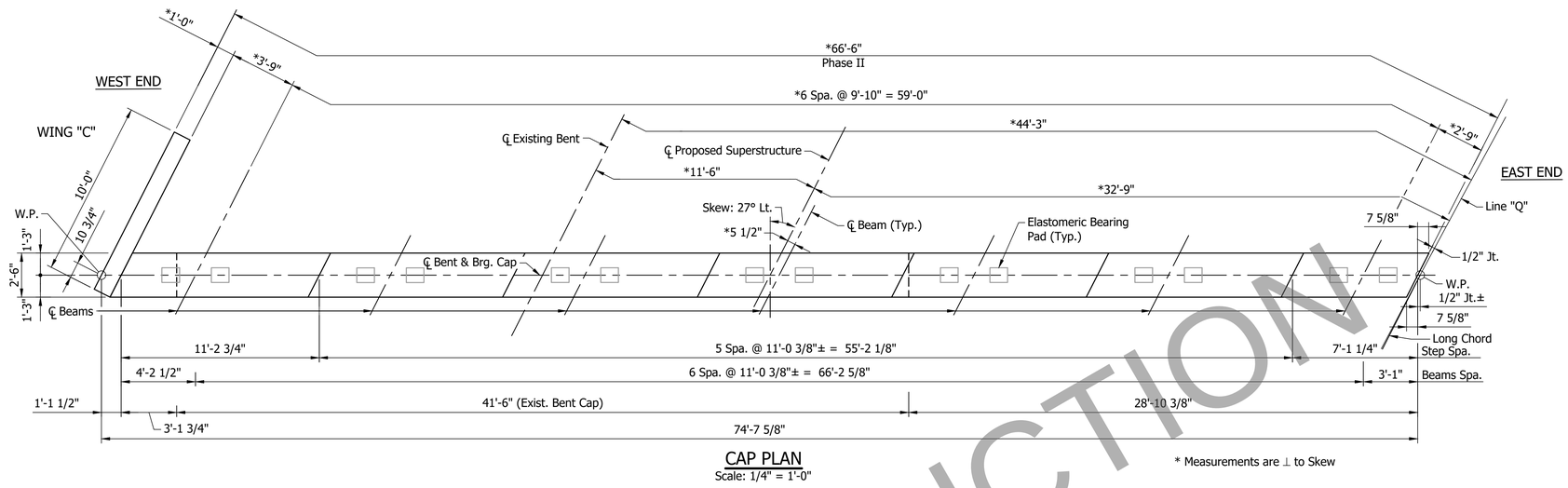
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

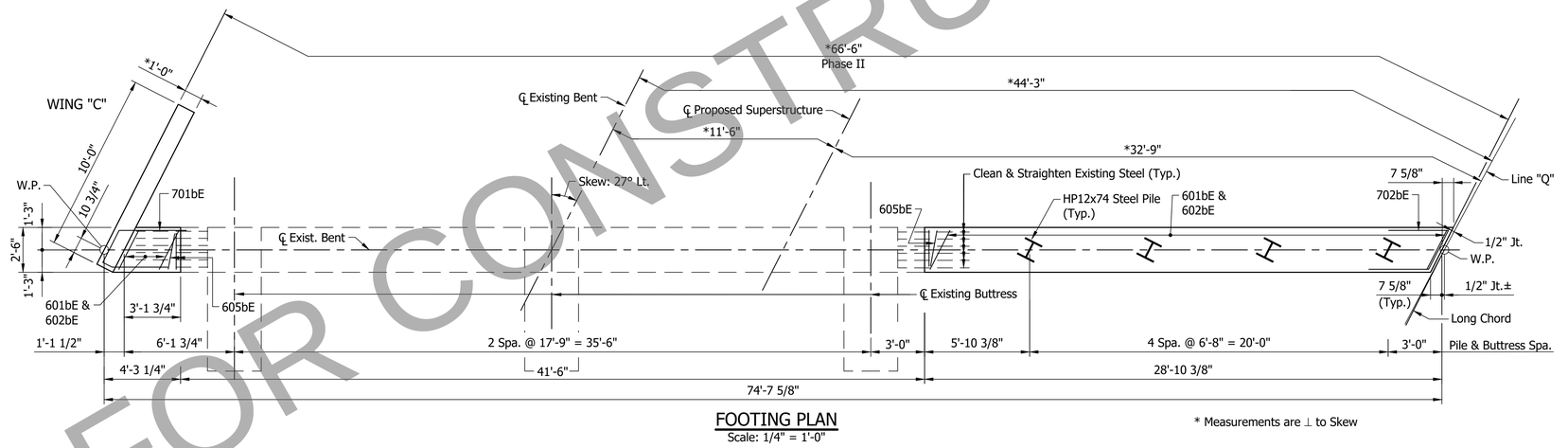
BENT NO.4
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C29 of C57	41 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew



FOOTING PLAN
Scale: 1/4" = 1'-0"

* Measurements are ⊥ to Skew

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Elevation View, see Dwg.C31.

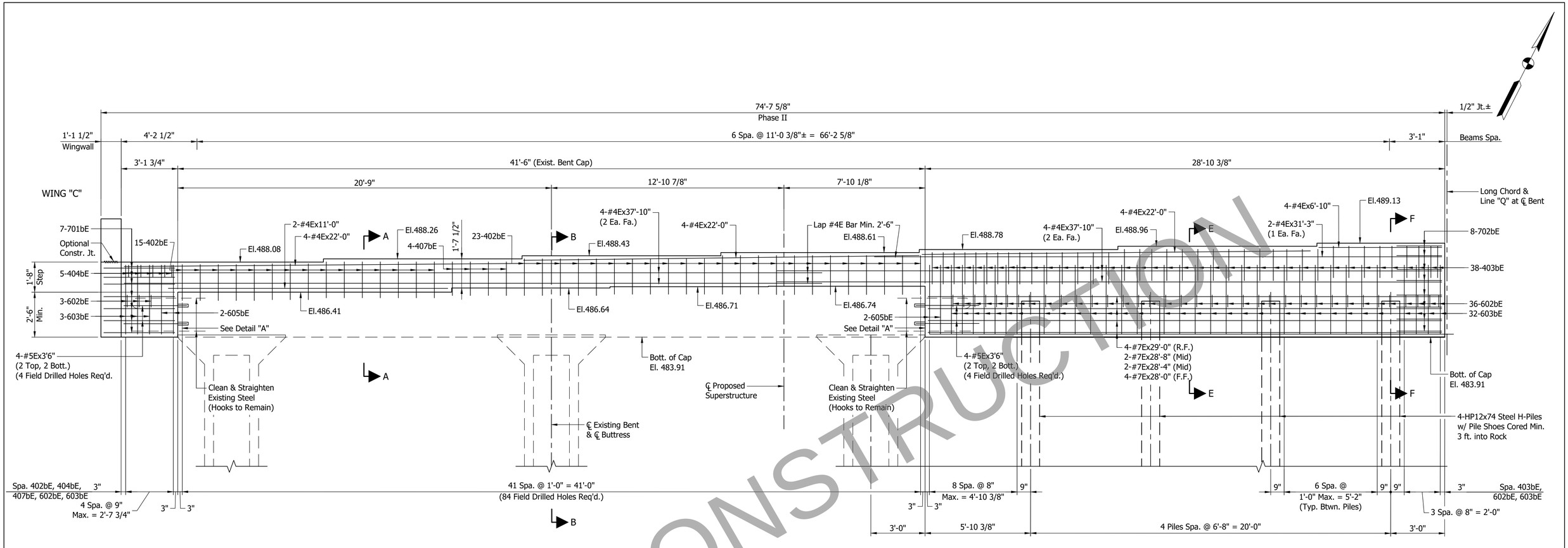
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

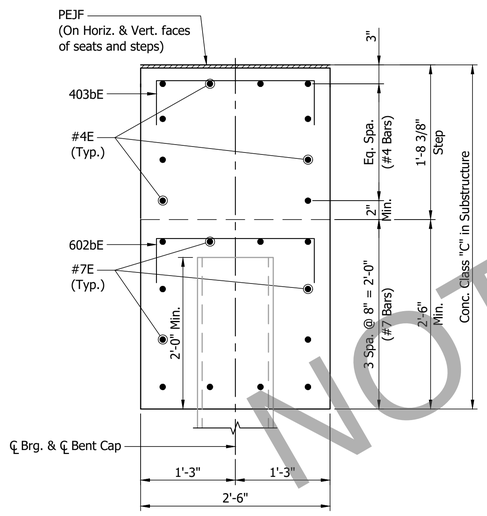
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4
SBL RECONSTRUCTION DETAILS

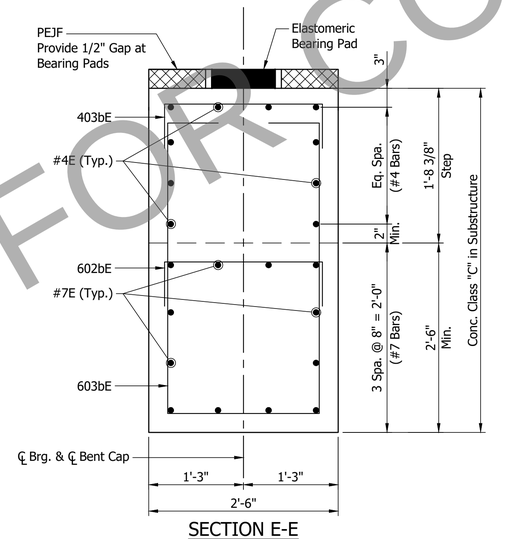
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C30 of C57	42 of 71
CONTRACT	PROJECT
R-41529	1700135



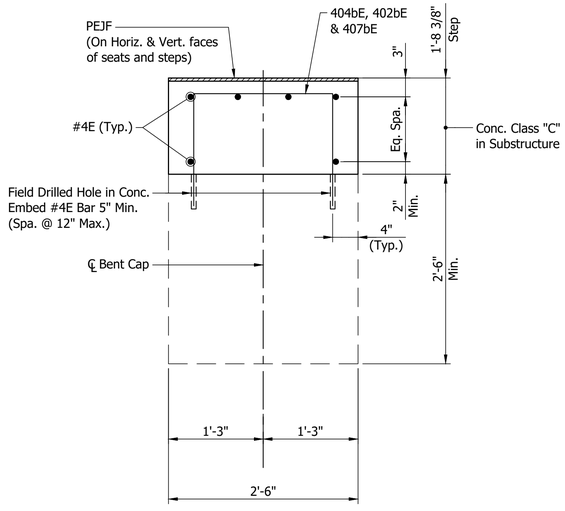
ELEVATION
(Front Face)
Scale: 3/8" = 1'-0"



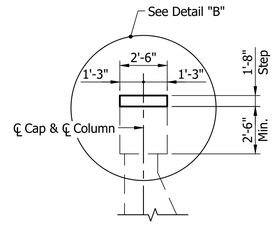
SECTION F-F
Scale: 1" = 1'-0"



SECTION E-E
Scale: 1" = 1'-0"



DETAIL "B"
Scale: 1" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.C4.

For Type "A" Construction Joint, see Std.Dwg.No. E702-CJTA-01.

For Sections A-A, C-C, D-D and Detail "A", see Dwg.C32.

For Cap and Footing Plan, see Dwg.C30.

NOT FOR CONSTRUCTION

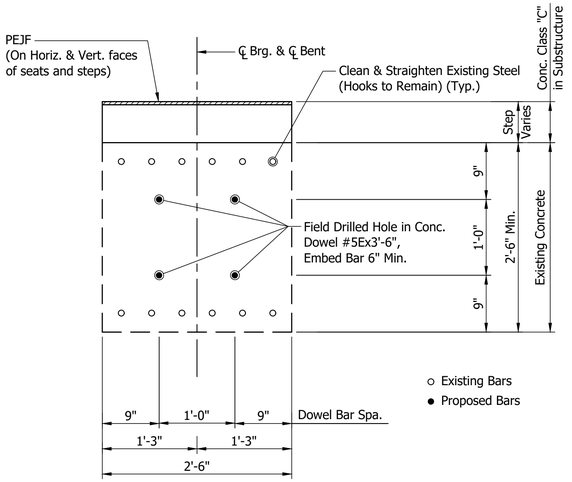
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

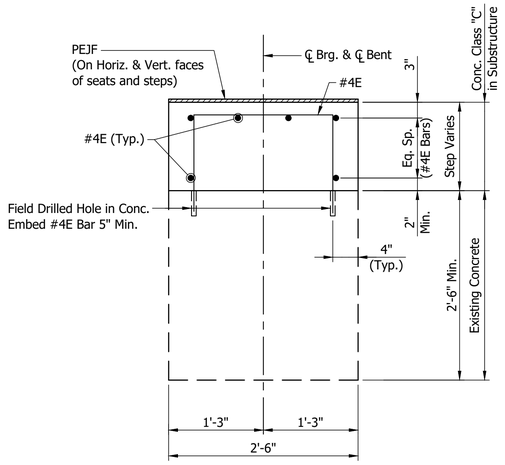
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4
SBL RECONSTRUCTION DETAILS

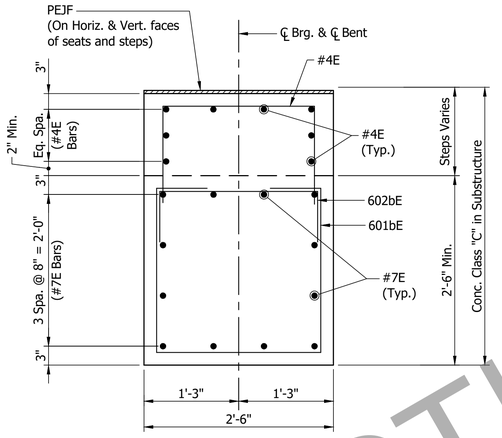
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C31 of C57	43 of 71
CONTRACT	PROJECT
R-41529	1700135



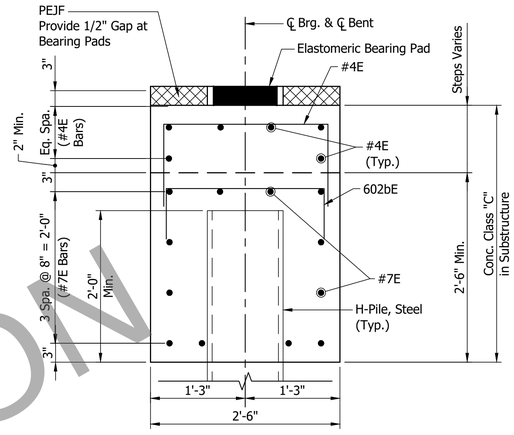
DETAIL "A"
Scale: 1" = 1'-0"



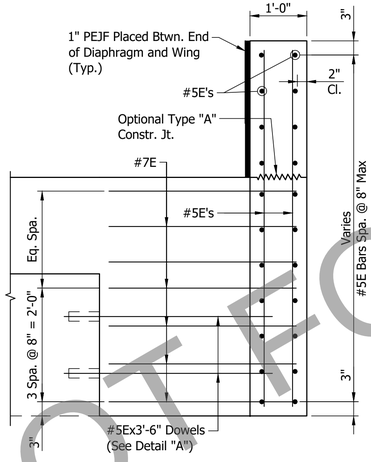
SECTION A-A
Scale: 1" = 1'-0"



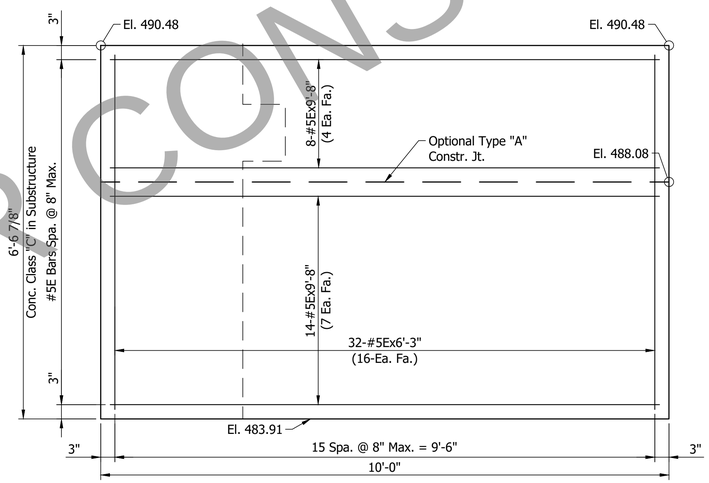
SECTION C-C
Scale: 1" = 1'-0"



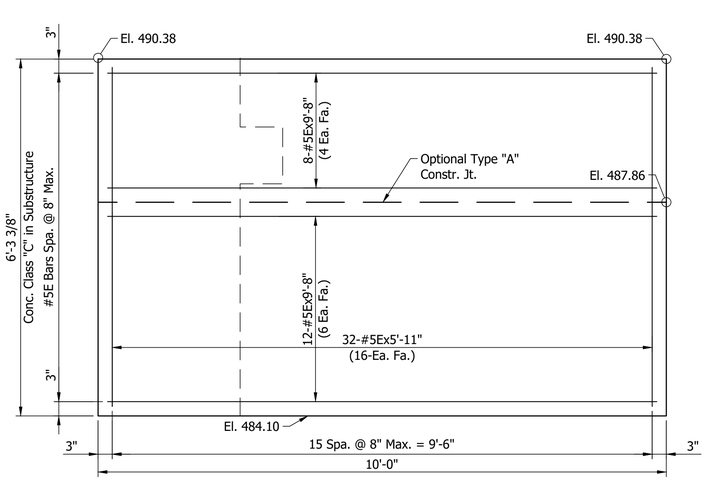
SECTION D-D
Scale: 1" = 1'-0"



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



WING "C" - SBL
Scale: 3/4" = 1'-0"



WING "D" - NBL
Scale: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

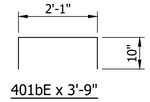
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

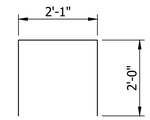
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4 DETAILS

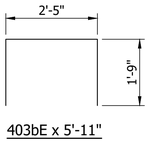
HORIZONTAL SCALE	BRIDGE FILE
1" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C32 of C57	44 of 71
CONTRACT	PROJECT
R-41529	1700135



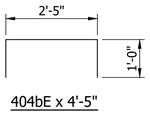
401bE x 3'-9"



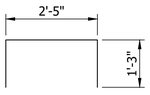
402bE x 6'-1"



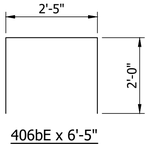
403bE x 5'-11"



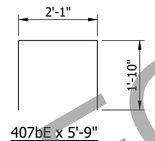
404bE x 4'-5"



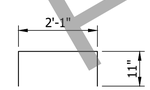
405bE x 4'-11"



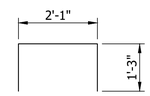
406bE x 6'-5"



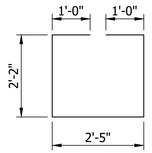
407bE x 5'-9"



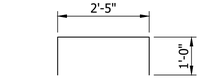
408bE x 4'-1"



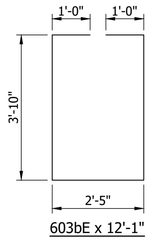
409bE x 4'-7"



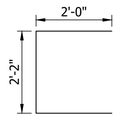
601bE x 8'-9"



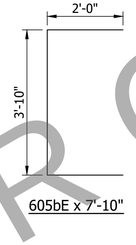
602bE x 4'-5"



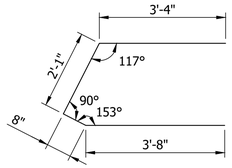
603bE x 12'-1"



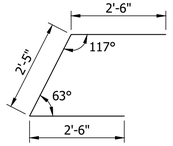
604bE x 6'-2"



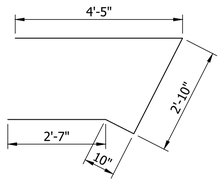
605bE x 7'-10"



701bE x 9'-9"



702bE x 7'-5"



703bE x 10'-8"

BILL OF MATERIALS

NBL BENT NO.4 - PHASE I

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
702bE	5	7'-5"	
#7E	4	29'-0"	
#7E	2	28'-8"	
#7E	2	28'-4"	
#7E	4	28'-0"	
Total #7E			775
601bE	32	8'-9"	
602bE	36	4'-5"	
604bE	2	6'-2"	
Total #6E			679
#5E	4	3'-6"	
Total #5E			15
401bE	4	3'-9"	
404bE	26	4'-5"	
405bE	12	4'-11"	
408bE	7	4'-1"	
#4E	4	17'-8"	
#4E	4	11'-0"	
#4E	6	10'-0"	
Total #4E			261
Total Epoxy Coated Reinforcing Bars			1730

CONCRETE	
Concrete Class "C" in Substructure	8.5 Cys.
Total Concrete Class "C" in Substructure	8.5 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	22 Cys.
Field Drilled Hole in Concrete	26 Ea.
4-Piles, Steel H, HP12x74 @ 18 Lft. Ea.	72 Lft.
Pile Shoe, HP12x74	4 Ea.
Cored Hole in Rock, 24 in.	16 Lft.
Surface Seal (Est. Quantity)	115 Sft.

BILL OF MATERIALS

NBL BENT NO.4 - PHASE III

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
703bE	6	10'-8"	
Total #7E			131
601bE	3	8'-9"	
602bE	3	4'-5"	
604bE	2	6'-2"	
Total #6E			78
#5E	20	9'-8"	
#5E	32	5'-11"	
#5E	4	3'-6"	
Total #5E			415
406bE	5	6'-5"	
408bE	27	4'-1"	
409bE	5	4'-7"	
#4E	2	34'-4"	
#4E	4	19'-0"	
#4E	4	15'-0"	
Total #4E			247
Total Epoxy Coated Reinforcing Bars			871

CONCRETE	
Concrete Class "C" in Substructure	6.1 Cys.
Total Concrete Class "C" in Substructure	6.1 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	17 Cys.
Field Drilled Hole in Concrete	68 Ea.
Surface Seal (Est. Quantity)	141 Sft.
Flowable Backfill, Non-Removable	2 Cys.
Patching Concrete Structures	20 Sft.

BILL OF MATERIALS

SBL BENT NO.4 - PHASE II

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
701bE	7	9'-9"	
702bE	8	7'-5"	
#7E	4	29'-0"	
#7E	2	28'-8"	
#7E	2	28'-4"	
#7E	4	28'-0"	
Total #7E			960
602bE	41	4'-5"	
603bE	37	12'-1"	
605bE	4	7'-10"	
Total #6E			990
#5E	22	9'-8"	
#5E	32	6'-3"	
#5E	8	3'-6"	
Total #5E			460
402bE	38	6'-1"	
403bE	38	5'-11"	
404bE	5	4'-5"	
407bE	4	5'-9"	
#4E	8	37'-10"	
#4E	2	31'-3"	
#4E	12	22'-0"	
#4E	2	11'-0"	
#4E	4	6'-10"	
Total #4E			787
Total Epoxy Coated Reinforcing Bars			3197

CONCRETE	
Concrete Class "C" in Substructure	23.9 Cys.
Total Concrete Class "C" in Substructure	23.9 Cys.

MISCELLANEOUS	
Foundation Excavation, Unclassified	47 Cys.
Field Drilled Hole in Concrete	92 Ea.
4-Piles, Steel H, HP12x74 @ 17 Lft. Ea.	68 Lft.
Pile Shoe, HP12x74	4 Ea.
Cored Hole in Rock, 24 in.	16 Lft.
Surface Seal (Est. Quantity)	358 Sft.
Flowable Backfill, Non-Removable	2 Cys.
Patching Concrete Structures	10 Sft.

NOT FOR CONSTRUCTION

Notes:

For General Notes, see Dwg.C4.

For Bent Details, see Dwgs.C28 - C32.

"E" denotes Epoxy Coated Reinforcing Steel.

For Type "A" Constr. Jt., see Std.Dwg.No.E702-CJTA-01.

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

INDIANA
DEPARTMENT OF TRANSPORTATION

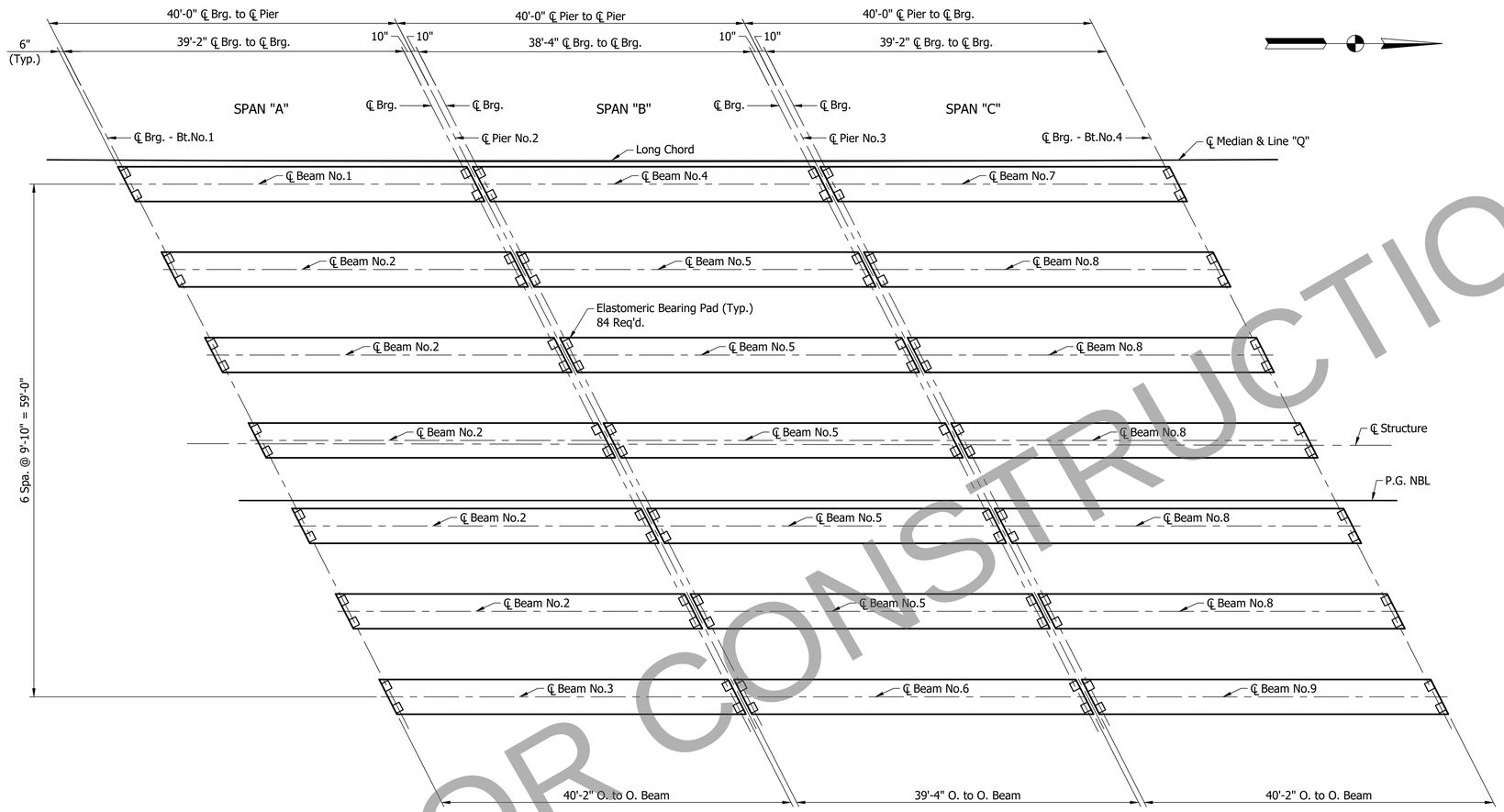
DESIGNED: LLS | DRAWN: LLB

CHECKED: APL | CHECKED: APL

BENT NO.4 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C33 of C57	45 of 71
CONTRACT	PROJECT
R-41529	1700135



FRAMING PLAN
(Northbound)
Scale: 1/8" = 1'-0"

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

Concrete design strength to be 7000 psi @ 28 days.

Concrete strength must be 6000 psi or more before prestressing force is applied.

1/2"Ø Special Lolax strands to be pulled to 33,800 lbs initially each.

Prestressing strands to be 1/2"Ø high strength 270 ksi Special Lolax (As=0.167 in^2).

For Bearing Assembly Details, see Dwg.C37.

For Beam Details and additional details, see Dwg.C36.

The tops of beams are to be scored transversely at ±3" centers with pointed tool.

All reinforcing steel extended into deck to be epoxy coated.

Beams shall be cast a minimum of 28 days before slab is poured.

Beams shall be cast a minimum of 90 day before continuity diaphragm is poured.

Sealer on outside face of exterior beam to be done by Fabricator in the shop.

For tolerances for fabrication of Prestressed Beams, see Std.Dwg.No.E707-BPBF-01 & E707-BPBF-04.

The beams are to be supported at bearing points while stored and while transporting to job site.

"E" denotes Epoxy Coated Reinforcing Steel.

Adequate bracing must be provided at all times during storage, transportation, and lifting to resist lateral loads.

Beams shall be maintained vertically at all times. Failure to do so could result in sudden failure of the beam.

NOT FOR CONSTRUCTION

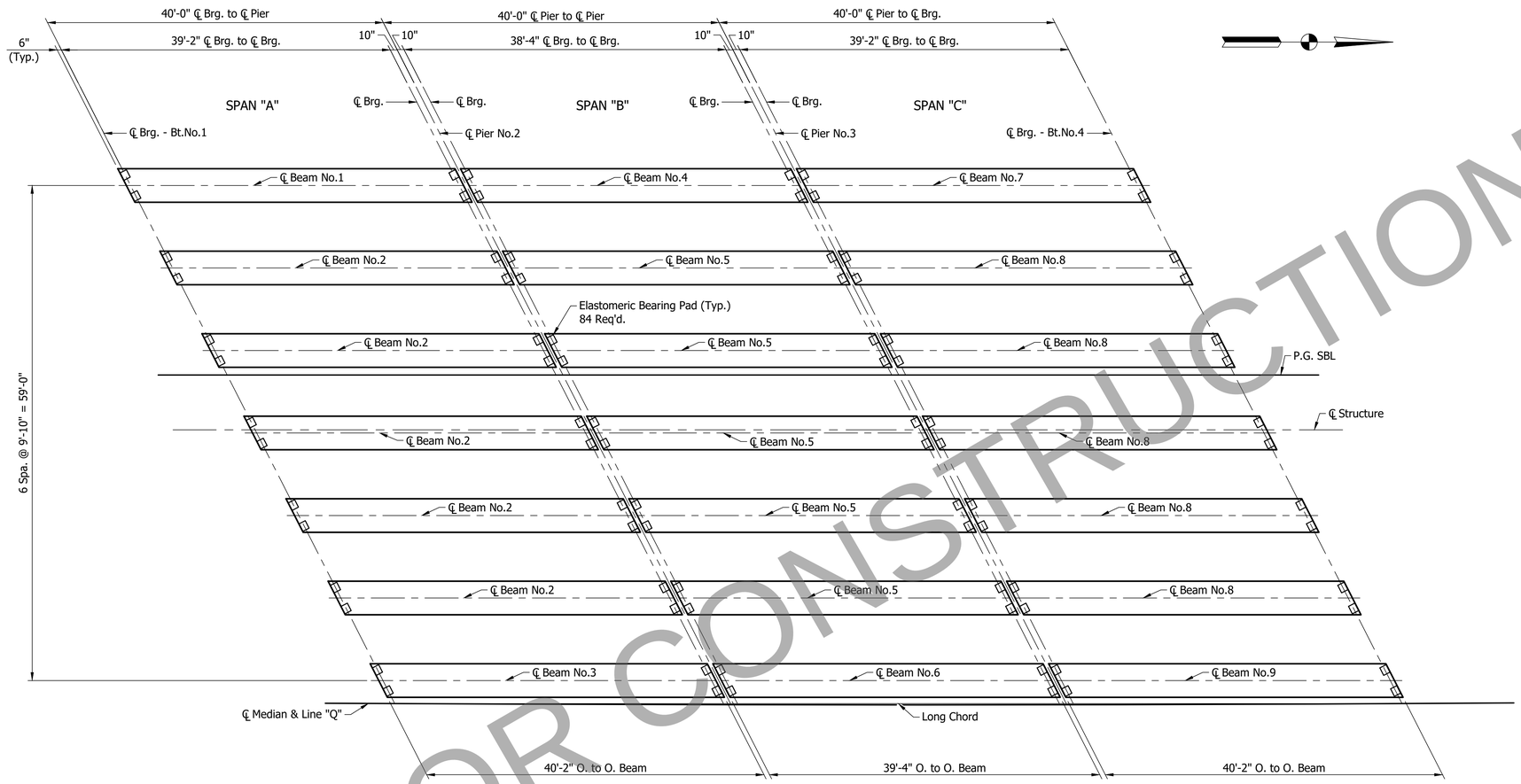
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C34 of C57	46 of 71
CONTRACT	PROJECT
R-41529	1700135



FRAMING PLAN
(Southbound)
Scale: 1/8" = 1'-0"

NOT FOR CONSTRUCTION

Notes:
For Prestressed Beam Notes, see Dwg.C34.

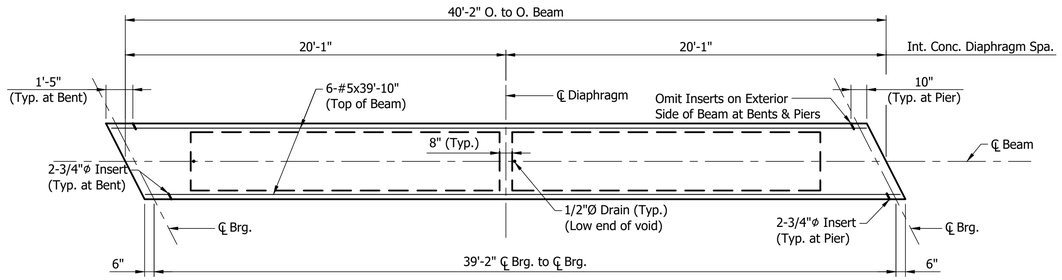
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

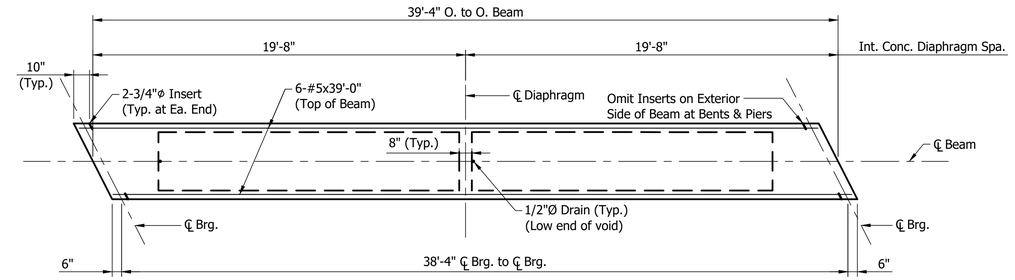
FRAMING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C35 of C57	47 of 71
CONTRACT	PROJECT
R-41529	1700135



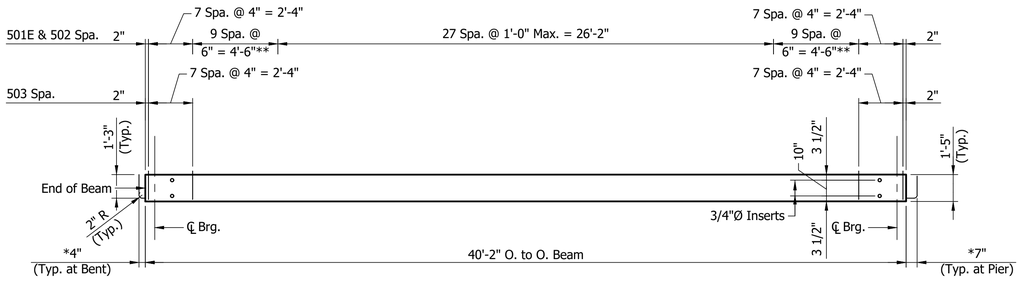
TYPICAL BEAM PLAN - SPANS "A" & "C"

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



TYPICAL BEAM PLAN - SPAN "B"

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

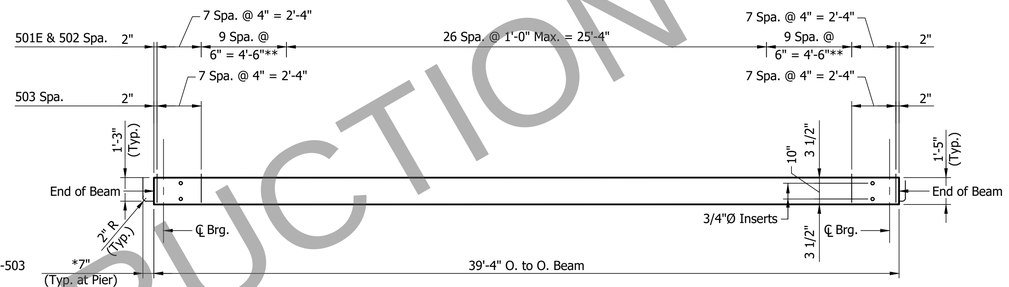


TYPICAL BEAM ELEVATION - SPANS "A" & "C"

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

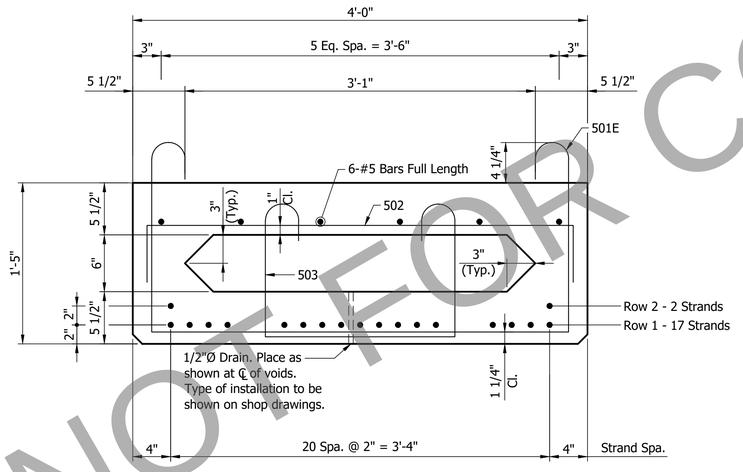
* 8-Strands Row 1 to be bent by mfgr. w/o the use of heat

** Place 2-501E @ Each Space, 1-503 may be substituted for 1-501E within end block area



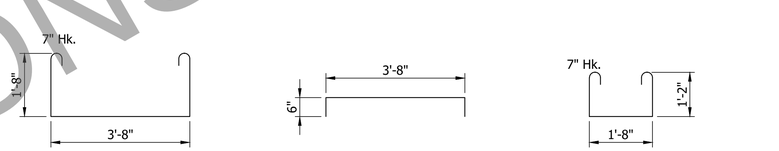
TYPICAL BEAM ELEVATION - SPAN "B"

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



TYPICAL SECTION THRU BEAM

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



501E x 7'-10"

502 x 4'-8"

503 x 5'-2"

DEFLECTIONS AT MIDSPAN

	SPAN "A"	SPAN "B"	SPAN "C"
Camber as Erected (+)	1 3/8"	1 3/8"	1 3/8"
Dead Load Deflection (-)	9/16"	9/16"	9/16"
Residual Camber (+)	13/16"	13/16"	13/16"

Note:

The camber values as shown in the above table are expected values. If the actual camber as erected is different by 1/2" or more, the Contractor shall notify the Engineer immediately so that adjustments can be made.

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Framing Plan, see Dwgs.C34 - C35.

For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: NW

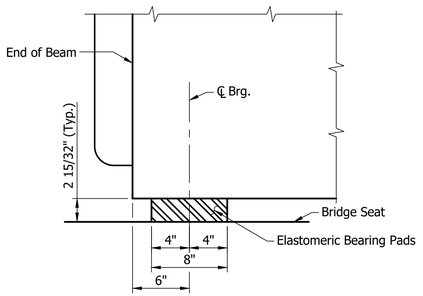
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

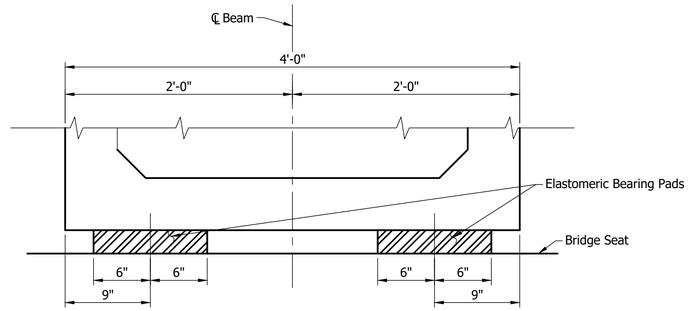
BEAM DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)

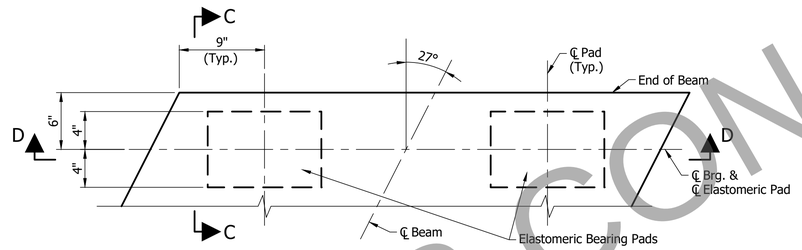
DRAWING NO.	SHEETS
C36 of C57	48 of 71
CONTRACT	PROJECT
R-41529	1700135



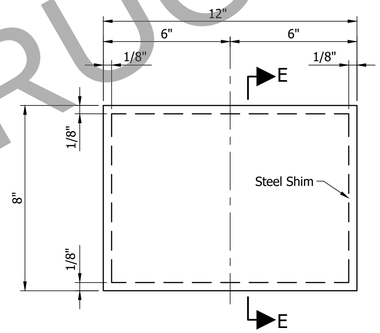
SECTION C-C
Scale: 1 1/2" = 1'-0"



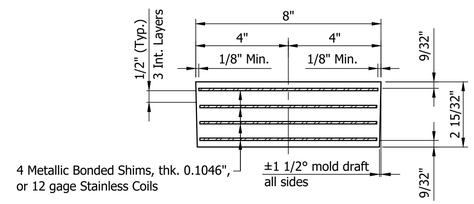
SECTION D-D
Scale: 1 1/2" = 1'-0"



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



PLAN



SECTION E-E

ELASTOMERIC BEARING PAD DETAILS

(Elastomeric Material to be 55 Durometer Hardness)
No Scale

NOT FOR CONSTRUCTION

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Framing Plan, see Dwgs.C34 - C35.

For bearing assembly location, see Dwgs.C34 - C35.

The bridge seats shall be finished at exactly the right elevation and be completely level to ensure full contact with the bottom of bearing device.

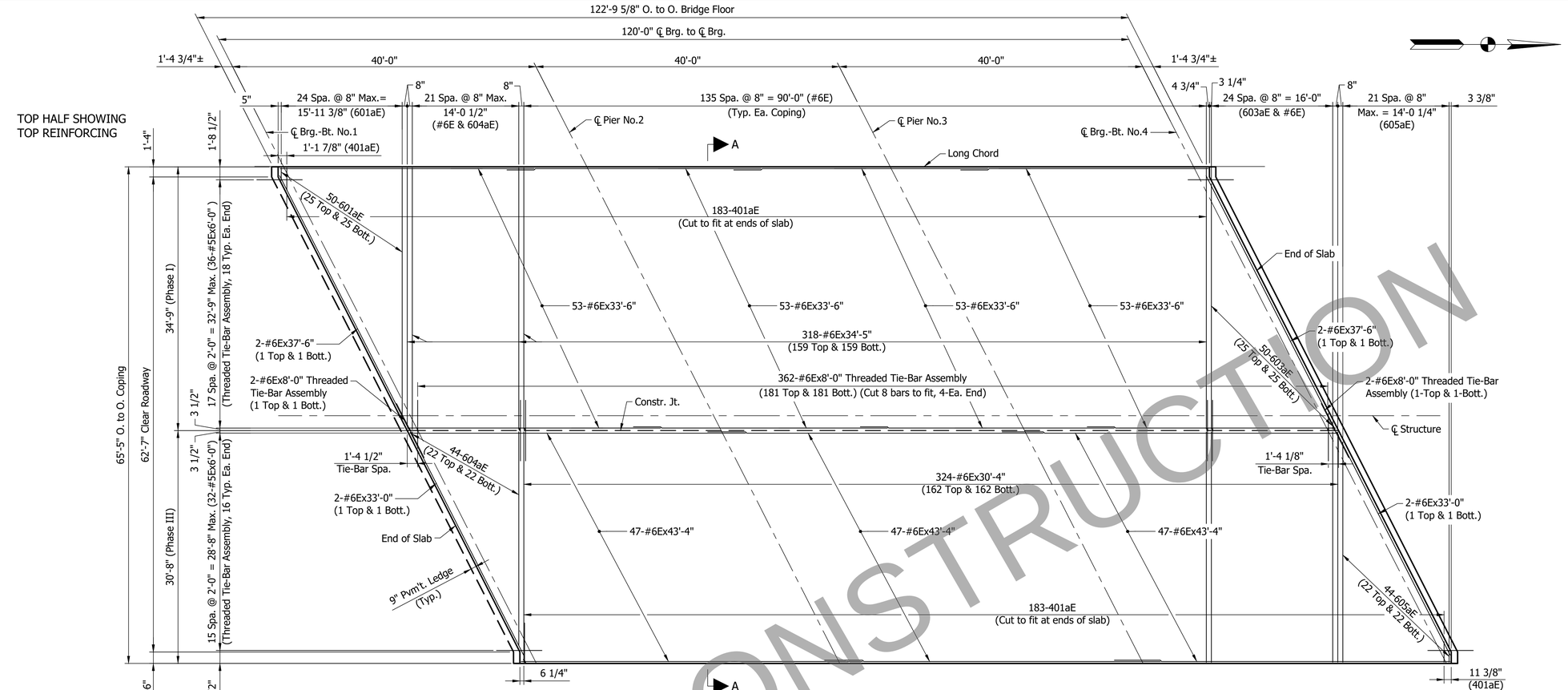
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

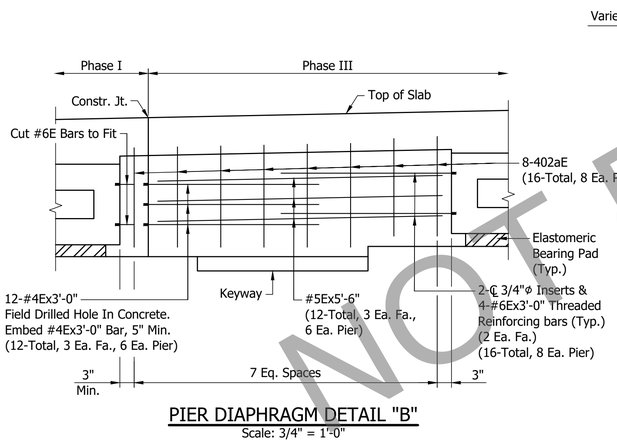
BEARING ASSEMBLY DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C37 of C57	49 of 71
CONTRACT	PROJECT
R-41529	1700135

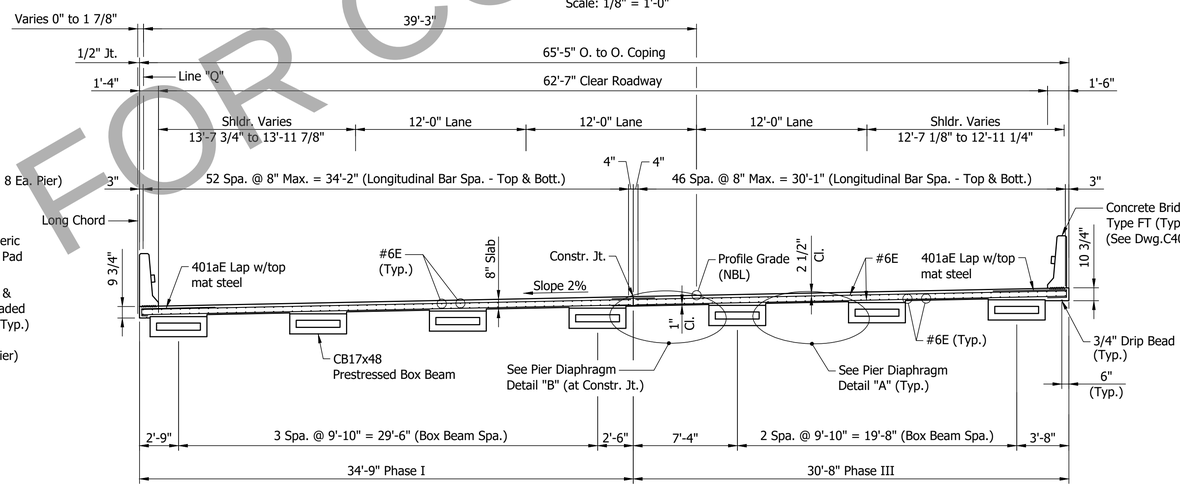


SLAB PLAN
(Northbound)
Scale: 1/8" = 1'-0"

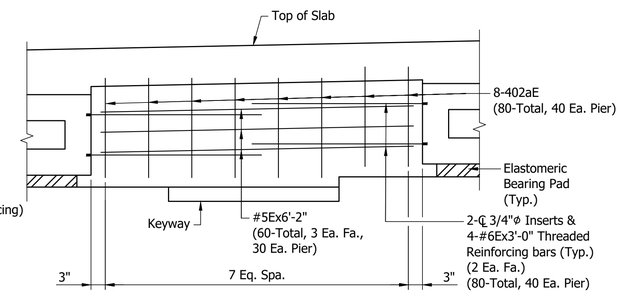
MINIMUM LAPS
3'-8" (#6E - #6E) (Longitudinal)
5'-0" (#6E - #6E) (Transverse)



PIER DIAPHRAGM DETAIL "B"
Scale: 3/4" = 1'-0"



SECTION A-A
Scale: 3/16" = 1'-0"



PIER DIAPHRAGM DETAIL "A"
Scale: 3/4" = 1'-0"

Notes:

For additional Diaphragm Details, see Dwg.C41.
For General Notes, Design Data & Typical Section, see Dwg.C4.
For additional details, bar bending diagrams & Bill of Materials, see Dwg.C47.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

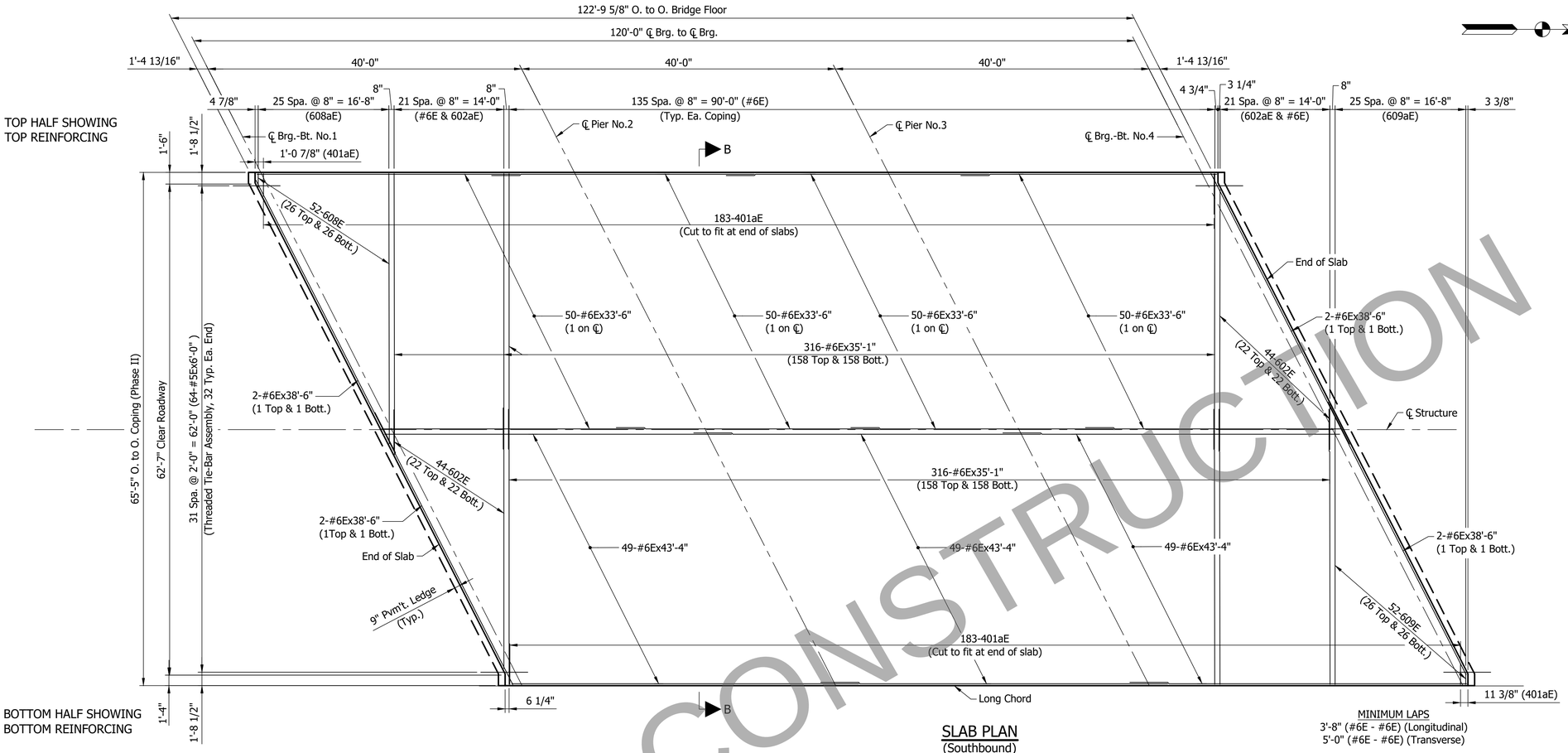
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

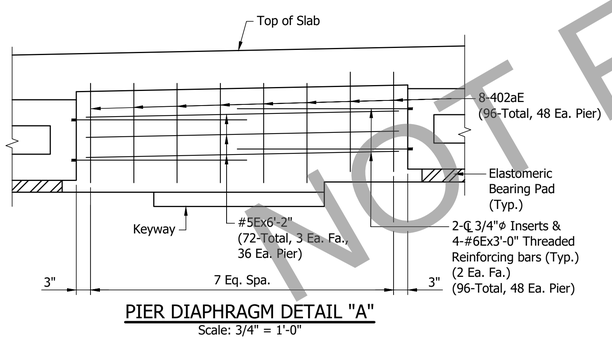
SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C38 of C57	50 of 71
CONTRACT	PROJECT
R-41529	1700135

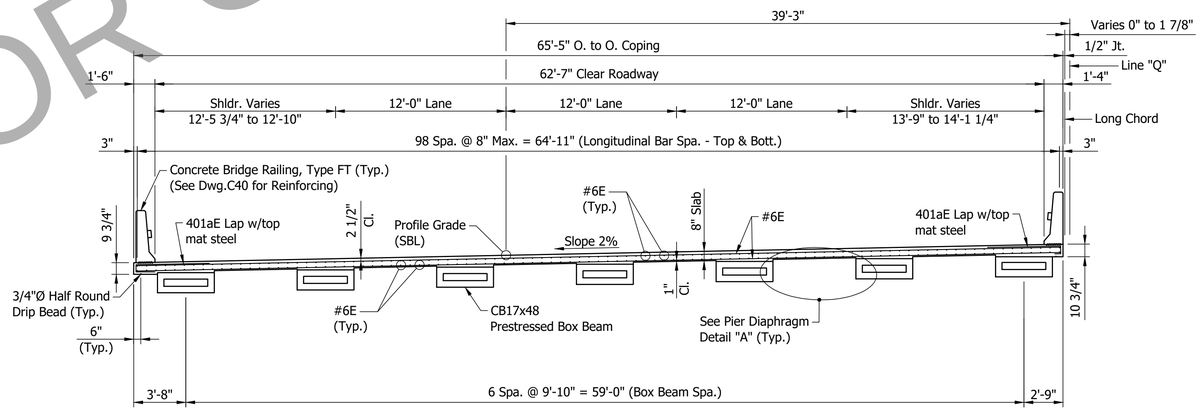


SLAB PLAN
(Southbound)
Scale: 1/8" = 1'-0"

MINIMUM LAPS
3'-8" (#6E - #6E) (Longitudinal)
5'-0" (#6E - #6E) (Transverse)



PIER DIAPHRAGM DETAIL "A"
Scale: 3/4" = 1'-0"



SECTION B-B
Scale: 3/16" = 1'-0"

Notes:
For General Notes, Design Data & Typical Section, see Dwg.C4.
For additional details, bar bending diagrams & Bill of Materials, see Dwg.C47.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

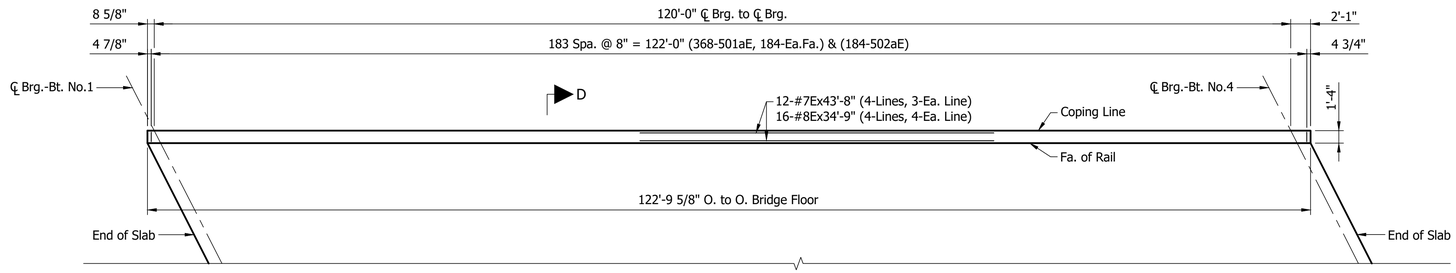
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

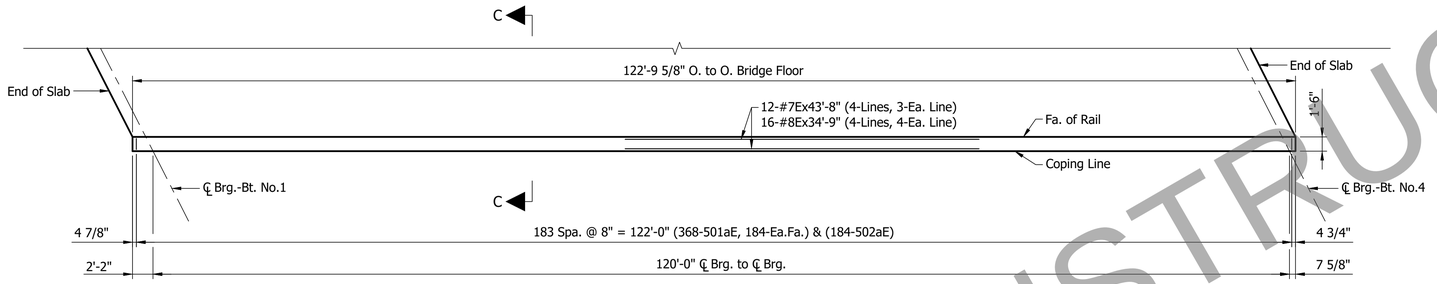
SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C39 of C57	51 of 71
CONTRACT	PROJECT
R-41529	1700135



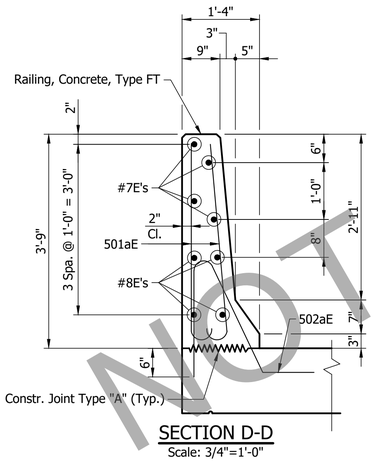
RAILING PLAN
(Northbound West Railing)
(Southbound East Rail Similar by Opposite Hand)
Scale: 1/8" = 1'-0"

MINIMUM LAPS
5'-6" (#8E in Rail)
4'-2" (#7E in Rail)

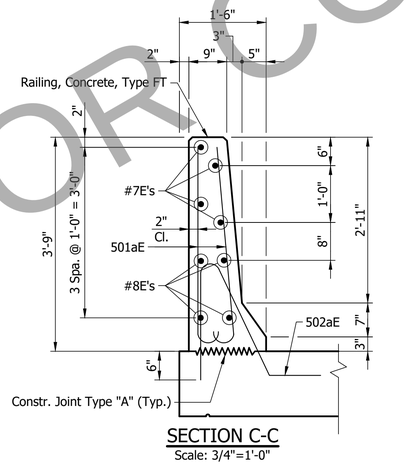


RAILING PLAN
(Northbound East Railing)
(Southbound West Rail Similar by Opposite Hand)
Scale: 1/8" = 1'-0"

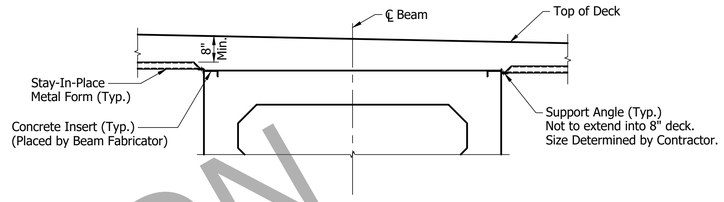
MINIMUM LAPS
5'-6" (#8E in Rail)
4'-2" (#7E in Rail)



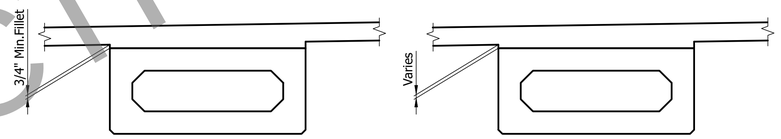
SECTION D-D
Scale: 3/4"=1'-0"



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

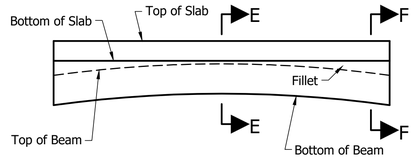


FILLET TREATMENT
No Scale



SECTION E-E

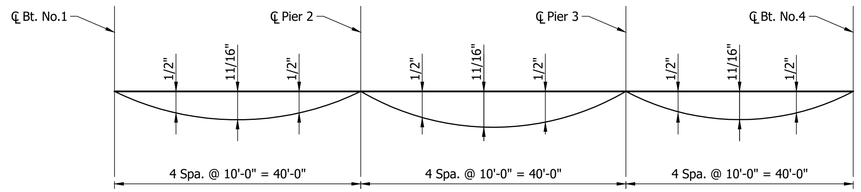
SECTION F-F



ELEVATION

Note:
Bridge seat elevations were calculated using design camber and dead load deflection of slab (Residual Beam Camber) with the top of beam at a minimum of 3/4" below the bottom of slab elevation at midspan.

HAUNCH DETAILS
No Scale



CONCRETE DEAD LOAD DEFLECTION DIAGRAM
No Scale

Notes:
For General Notes, Design Data & Typical Section, see Dwg.C4.
For additional details, bar bending diagrams & Bill of Materials, see Dwg.C47.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

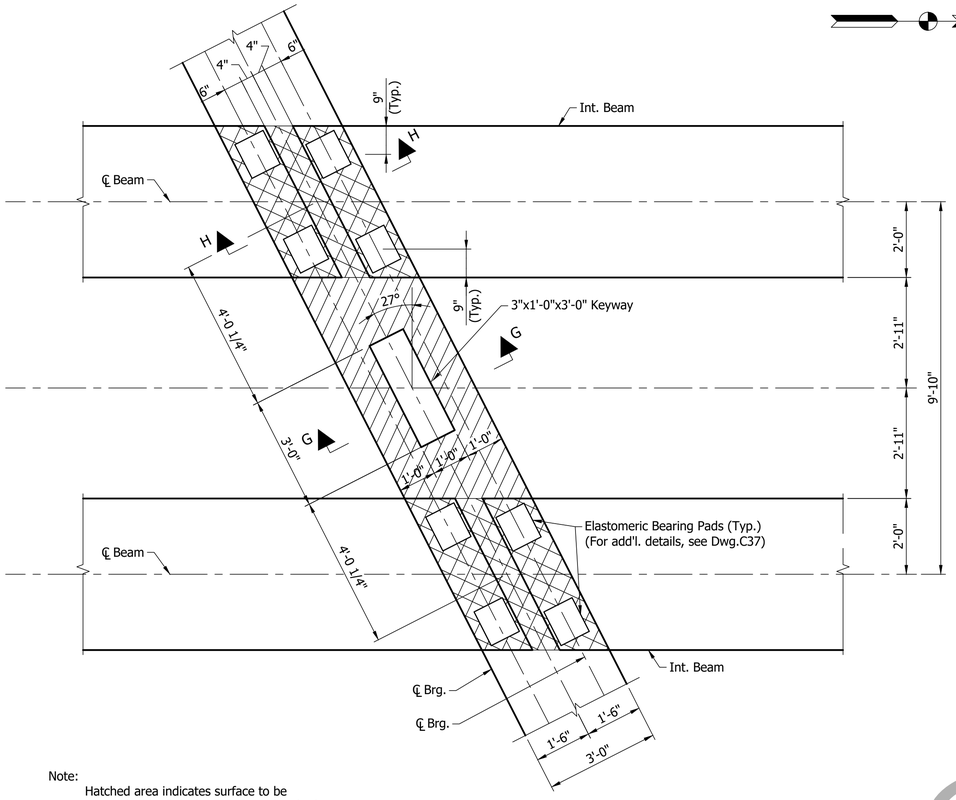
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

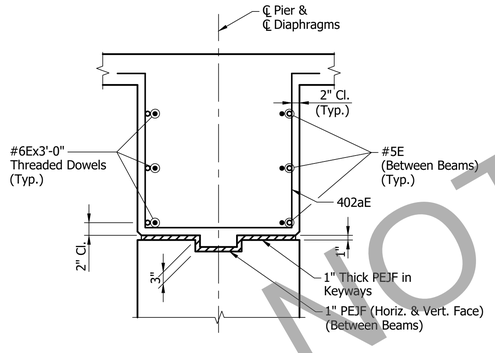
SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C40 of C57	52 of 71
CONTRACT	PROJECT
R-41529	1700135

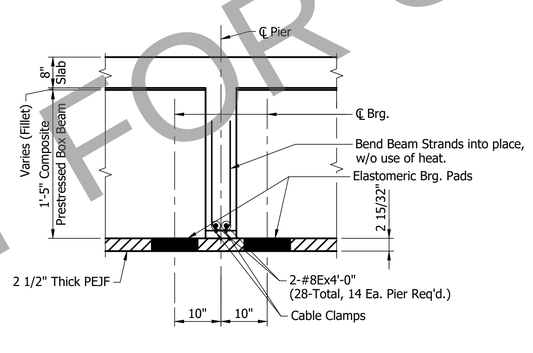


Note:
Hatched area indicates surface to be covered with 1" thick PEJF. Cross-hatched area indicates surface to be covered with 2 1/2" PEJF extended 1/2" past beam width. PEJF shall be cut to provide 1/2" gap @ bearing pads.

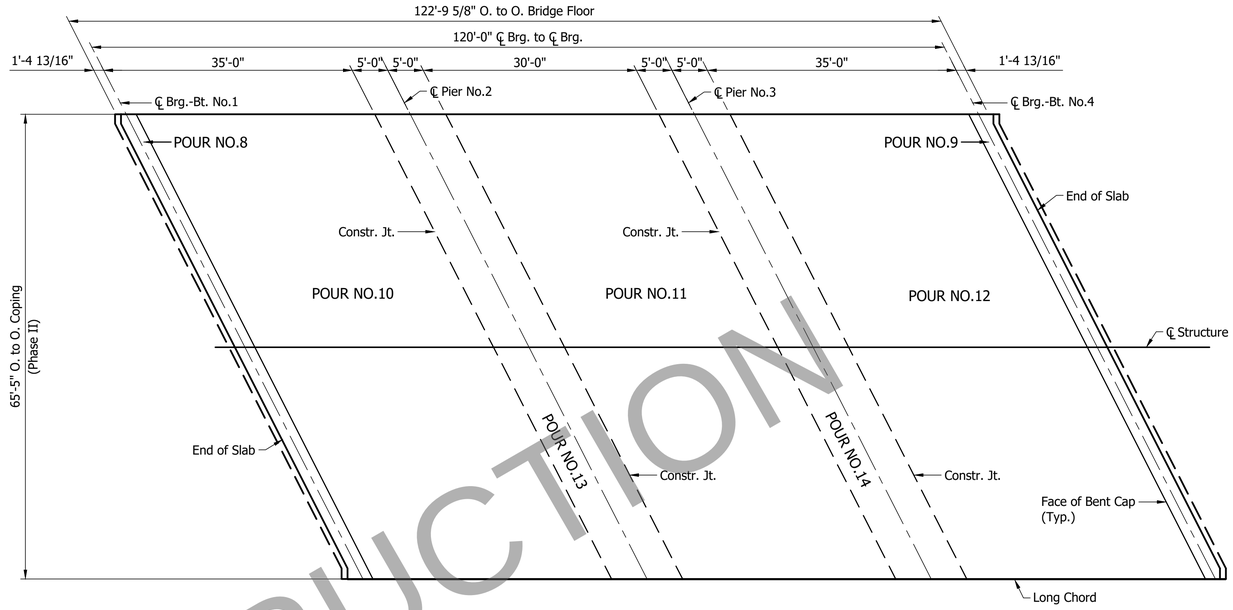
PARTIAL PLAN
(Pier No.2 & 3)
Scale: 1/2" = 1'-0"



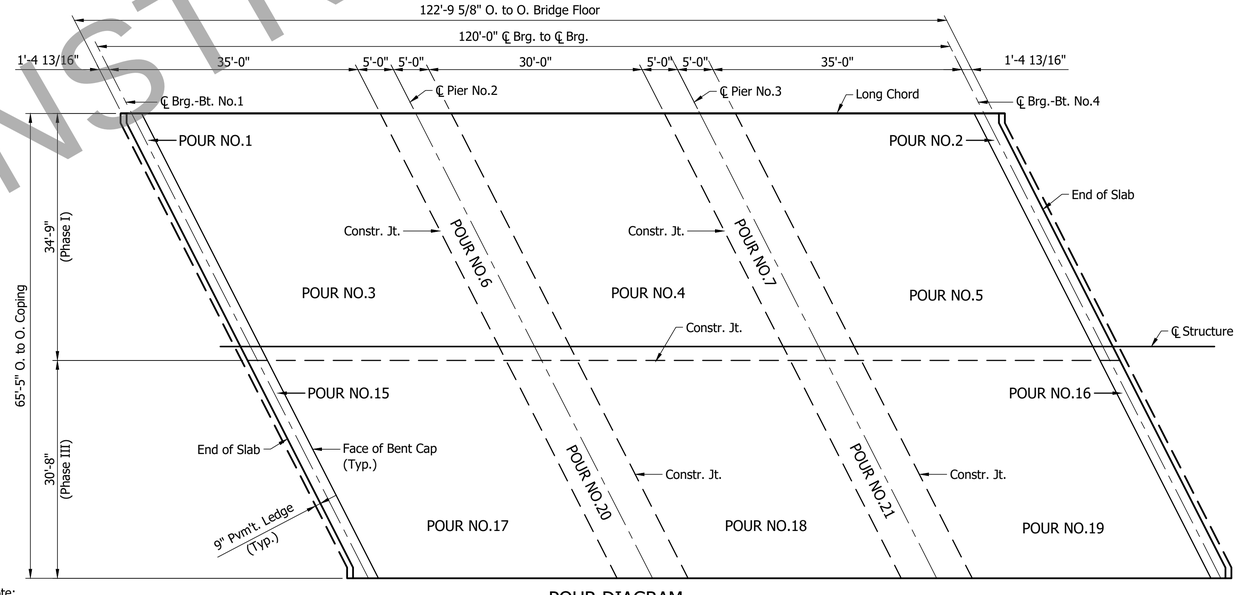
SECTION G-G
No Scale



SECTION H-H
No Scale



POUR DIAGRAM
(Southbound)
Scale: 3/32" = 1'-0"



Note:
Pour Numbers indicate sequence of pours. Pours over interior supports shall be made last to reduce the effect of the slab dead load in the negative moment area. Pour #3 will include the diaphragm at the support and shall be held to a 10'-0" length. All pour sequences and procedures shall be submitted in accordance with the section 704.04 of the standard specifications.
As an alternate, the Contractor may elect to pour the deck and diaphragms as one continuous pour from one end to the other. This shall be allowed provided the following criteria is met:
1. Minimum Pour Rate; 60.00 Cyd/Hr.
2.Two Spans Completed within 3.5 hours from time first concrete is discharged.

POUR DIAGRAM
(Northbound)
Scale: 3/32" = 1'-0"

Notes:
For General Notes, Design Data & Typical Section, see Dwg.C4.
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

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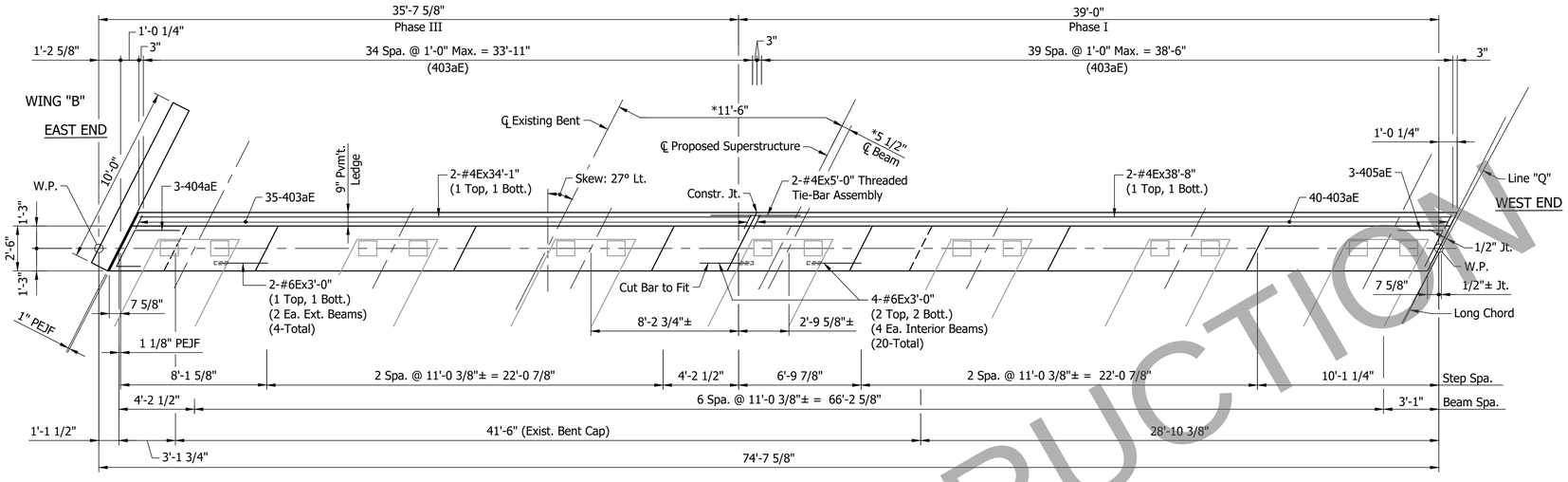
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

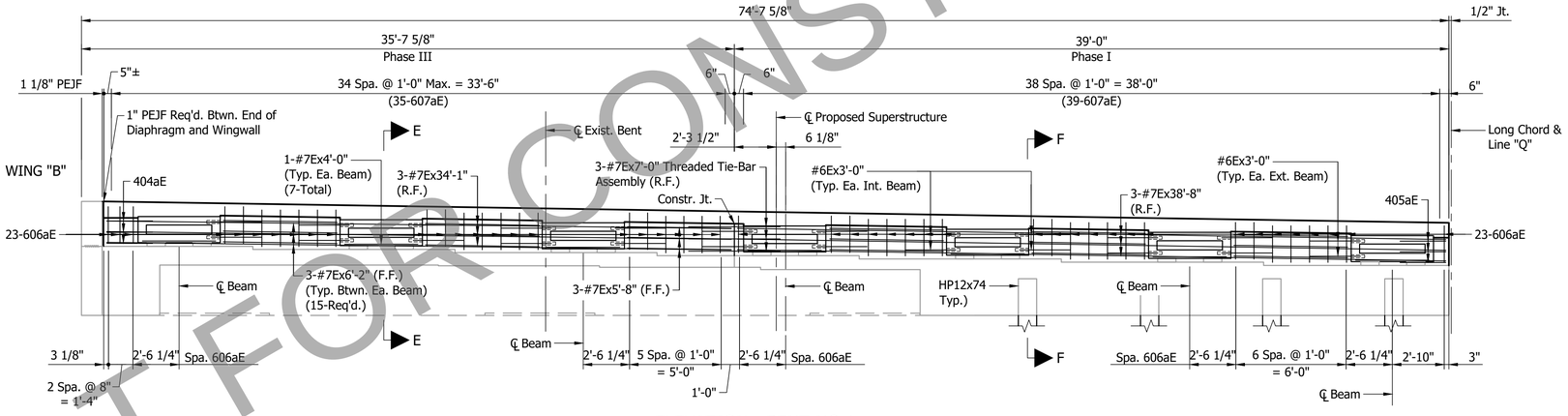
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C41 of C57	53 of 71
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN - BENT NO.1

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

* Measurements are ⊥ to Skew



ELEVATION - BENT NO.1

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

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.
For Sections E-E and F-F, see Dwg.C46
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

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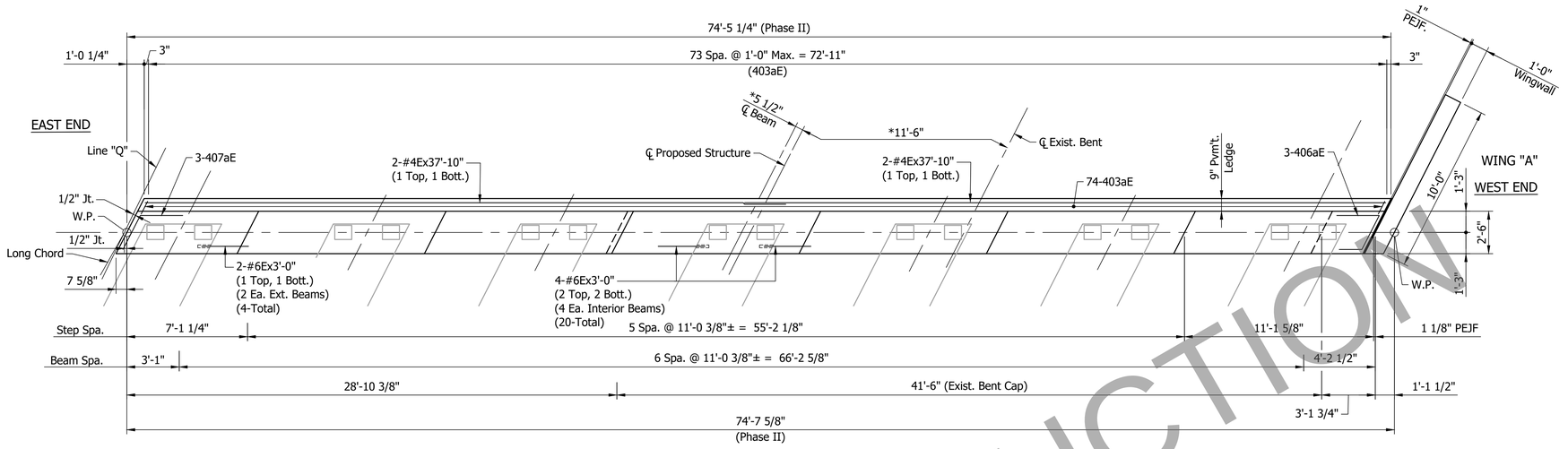
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.1
NBL SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C42 of C57	54 of 71
CONTRACT	PROJECT
R-41529	1700135

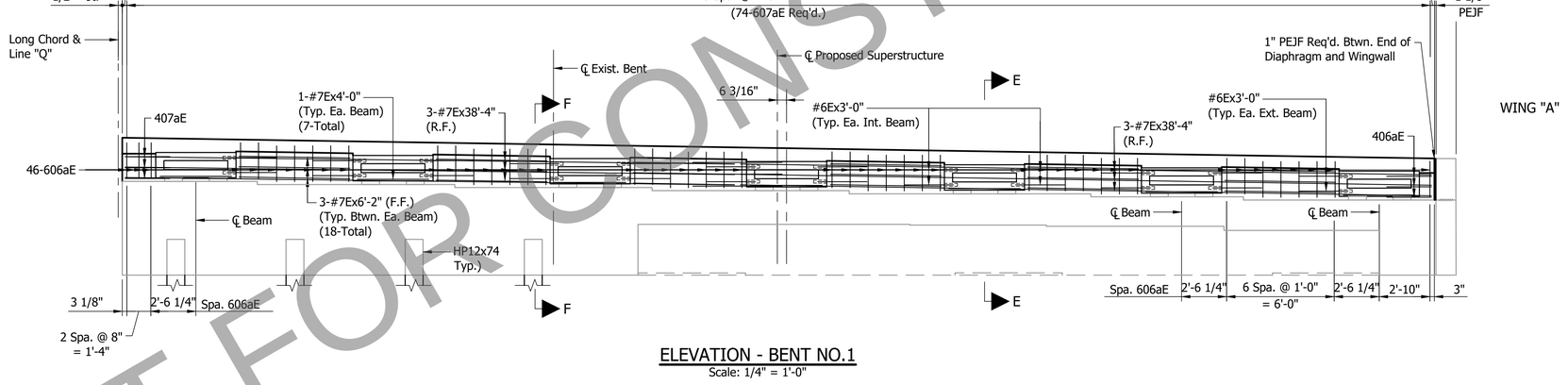


* Measurements are ⊥ to Skew

CAP PLAN - BENT NO.1

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

MINIMUM LAP LENGTH
2'-6" (#4E to #4E)
3'-6" (#7E to #7E)



ELEVATION - BENT NO.1

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

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.
For Sections E-E and F-F, see Dwg.C46
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

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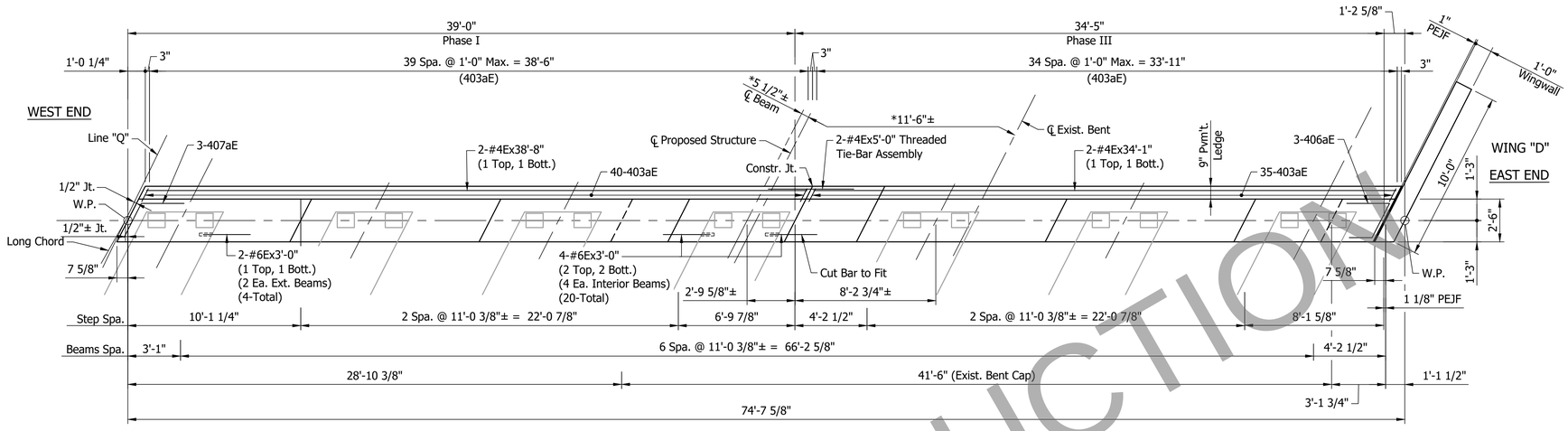
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.1
SBL SUPERSTRUCTURE DETAILS

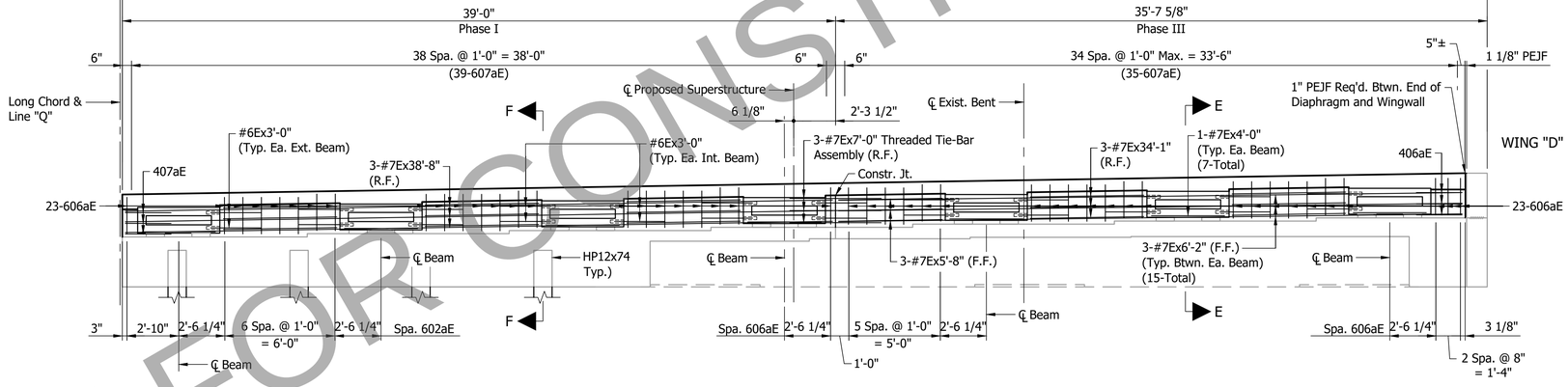
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C43 of C57	55 of 71
CONTRACT	PROJECT
R-41529	1700135



* Measurements are ⊥ to Skew

CAP PLAN - BENT NO.4

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



ELEVATION - BENT NO.4

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

NOT FOR CONSTRUCTION

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.
For Sections E-E and F-F, see Dwg.C46
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

FOR INFORMATION ONLY
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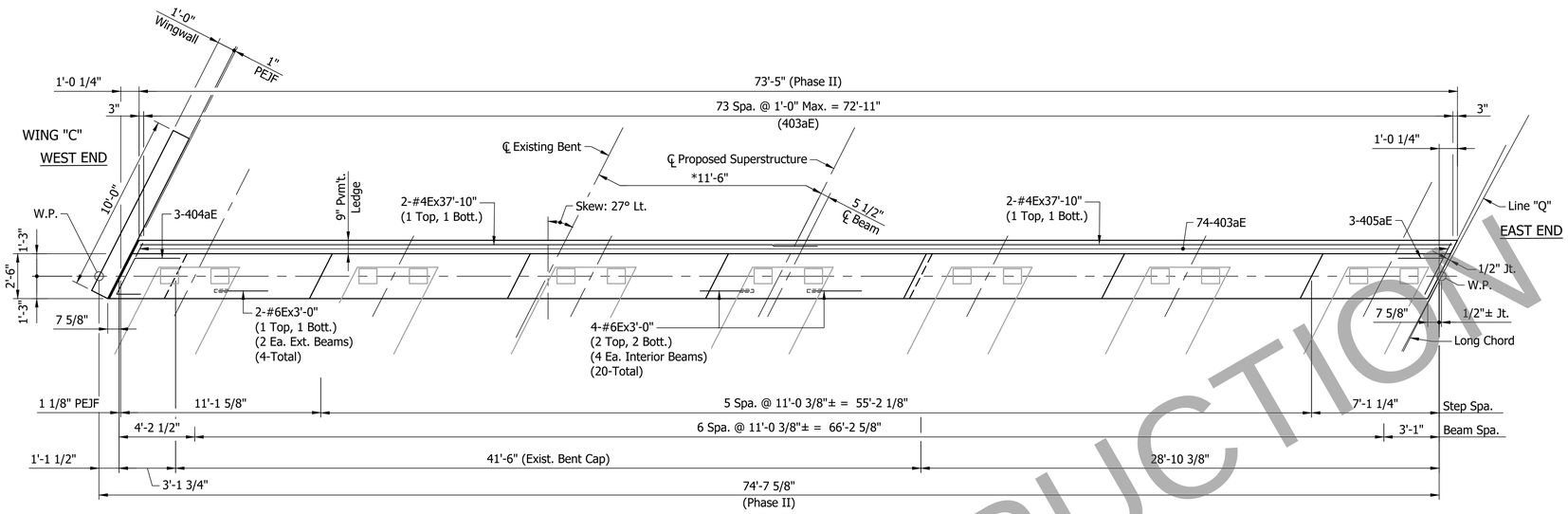
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4
NBL SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C44 of C57	56 of 71
CONTRACT	PROJECT
R-41529	1700135

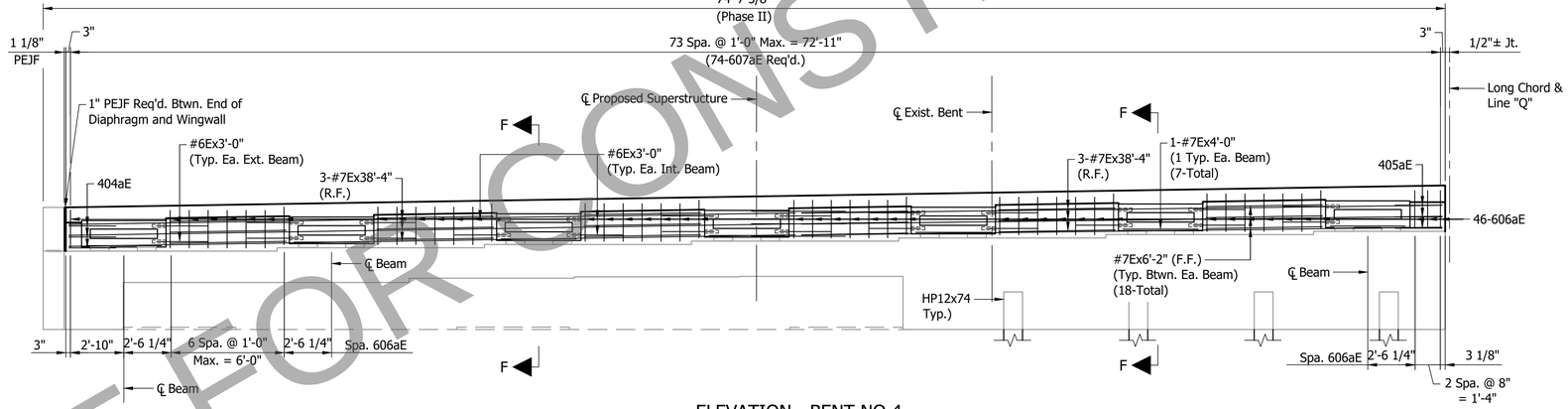


* Measurements are ⊥ to Skew

CAP PLAN - BENT NO.4

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

MINIMUM LAP LENGTH
2'-6" (#4E to #4E)
3'-6" (#7E to #7E)



ELEVATION - BENT NO.4

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

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

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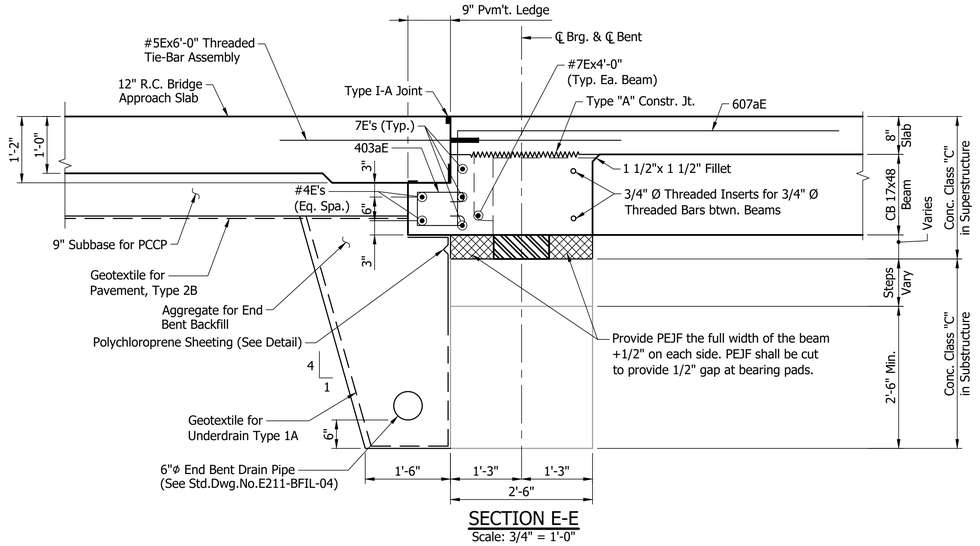
DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

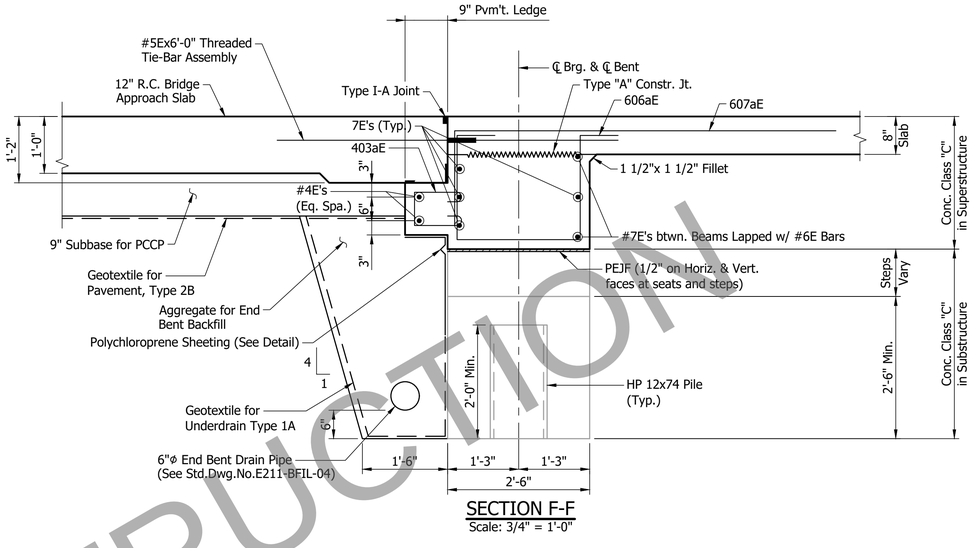
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4
SBL SUPERSTRUCTURE DETAILS

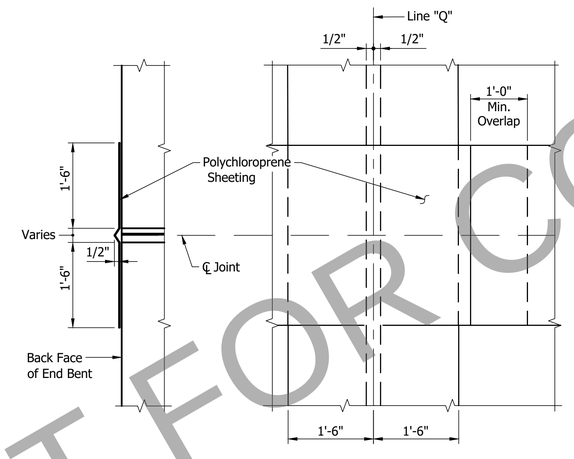
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C45 of C57	57 of 71
CONTRACT	PROJECT
R-41529	1700135



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



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



POLYCHLOROPRENE SHEETING DETAIL
Scale: 3/4" = 1'-0"

NOT FOR CONSTRUCTION

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.
For bar bending diagrams & Bill of Materials, see Dwg.C47.
For Superstructure Details, see Dwgs.C38 - C45.
For Slab Plan, see Dwgs.C38 - C39.
For Beam Details, see Dwg.C36.
For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

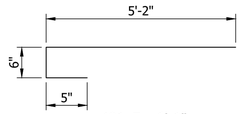
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

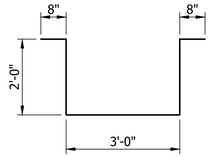
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

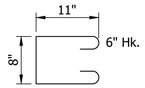
HORIZONTAL SCALE	BRIDGE FILE
3/4" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/4" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C46 of C57	58 of 71
CONTRACT	PROJECT
R-41529	1700135



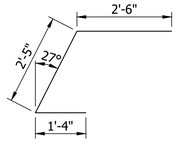
401aE x 6'-1"



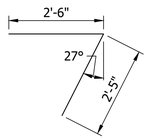
402aE x 8'-4"



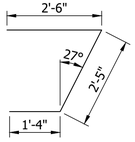
403aE x 3'-6"



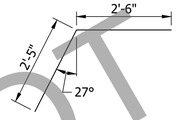
404aE x 6'-3"



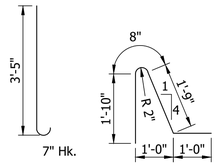
405aE x 4'-11"



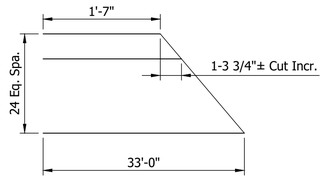
406aE x 6'-3"



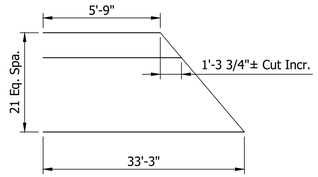
407aE x 4'-11"



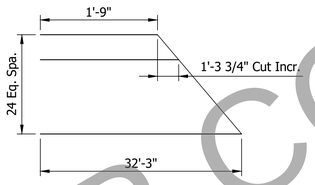
501aE x 4'-0" 502aE x 5'-6"



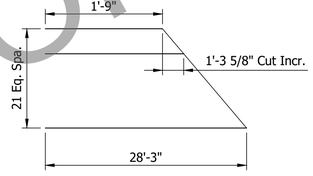
601E x 17'-4"
(Cuts 25 Bars)
(2 Sets Req'd.)



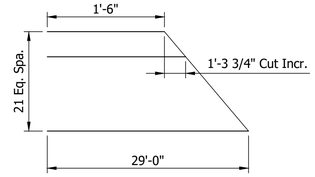
602E x 19'-6"
(Cuts 22 Bars)
(4 Sets Req'd.)



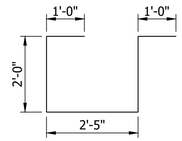
603E x 16'-6"
(Cuts 25 Bars)
(2 Sets Req'd.)



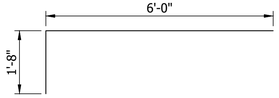
604E x 14'-6"
(Cuts 22 Bars)
(2 Sets Req'd.)



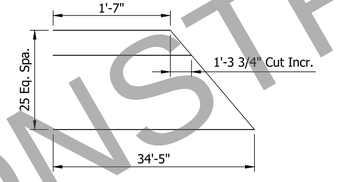
605E x 15'-3"
(Cuts 22 Bars)
(2 Sets Req'd.)



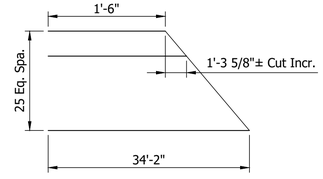
606aE x 8'-5"



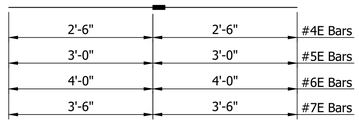
607aE x 7'-8"



608E x 18'-0"
(Cuts 26 Bars)
(2 Sets Req'd.)



609E x 17'-10"
(Cuts 26 Bars)
(2 Sets Req'd.)



THREADED TIE-BAR ASSEMBLY, EPOXY COATED

BILL OF MATERIALS

SUPERSTRUCTURE
PHASE I

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	16	34'-9"	
#8E	16	4'-0"	
Total #8E			1656
#7E	12	43'-8"	
#7E	6	38'-8"	
#7E	18	6'-2"	
#7E	8	4'-0"	
Total #7E			1837
601aE	50	17'-4"	
603aE	50	16'-6"	
606aE	46	8'-5"	
607aE	78	7'-8"	
#6E	159	43'-4"	
#6E	4	37'-6"	
#6E	318	34'-5"	
#6E	212	33'-6"	
#6E	84	3'-0"	
Total #6E			42080
501aE	368	4'-0"	
502aE	184	5'-6"	
#5E	36	6'-2"	
Total #5E			2823
401aE	183	6'-1"	
402aE	50	8'-4"	
403aE	80	3'-6"	
405aE	3	4'-11"	
407aE	3	4'-11"	
#4E	4	38'-8"	
Total #4E			1331
Total Epoxy Coated Reinforcing Bars			49727

CONCRETE	
Concrete Class "C" in Superstructure	
Pour No.1	6.1 Cys.
Pour No.2	6.1 Cys.
Pour No.3	34.3 Cys.
Pour No.4	28.5 Cys.
Pour No.5	34.3 Cys.
Pour No.6	14.8 Cys.
Pour No.7	14.8 Cys.
Total Concrete Class "C" in Superstructure	138.9 Cys.

MISCELLANEOUS	
Aggregate for End Bent Backfil	24 Cys.
Geotextile for Underdrains, Type 1A	76 Sys.
Structural Members, Concrete Box Beam, CB17x48	479 Lft.
Railing, Concrete, FT	15.0 Cys.
Barrier Delineator	6 Ea.
Longitudinal Grooving	456 Sys.
Threaded Tie-Bar Assembly, E.C. (#4E)	4 Ea.
Threaded Tie-Bar Assembly, E.C. (#5E)	36 Ea.
Threaded Tie-Bar Assembly, E.C. (#6E)	366 Ea.
Threaded Tie-Bar Assembly, E.C. (#7E)	6 Ea.
Surface Seal (Est. Quantity)	1020 Sft.
End Bent Drain Pipe 6"	78 Lft.

BILL OF MATERIALS

SUPERSTRUCTURE
PHASE III

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	16	34'-9"	
#8E	12	4'-0"	
Total #8E			1613
#7E	12	43'-8"	
#7E	6	34'-1"	
#7E	12	6'-2"	
#7E	6	5'-8"	
#7E	6	4'-0"	
Total #7E			1759
604aE	44	14'-6"	
605aE	44	15'-3"	
606aE	46	8'-5"	
607aE	70	7'-8"	
#6E	141	43'-4"	
#6E	188	33'-6"	
#6E	4	33'-0"	
#6E	324	30'-4"	
#6E	60	3'-0"	
Total #6E			37219
501aE	368	4'-0"	
502aE	184	5'-6"	
#5E	24	6'-2"	
#5E	12	5'-6"	
Total #5E			2814
401aE	183	6'-1"	
402aE	46	8'-4"	
403aE	70	3'-6"	
404aE	3	6'-3"	
406aE	3	6'-3"	
#4E	4	34'-1"	
#4E	12	3'-0"	
Total #4E			1304
Total Epoxy Coated Reinforcing Bars			44709

CONCRETE	
Concrete Class "C" in Superstructure	
Pour No.15	5.6 Cys.
Pour No.16	5.6 Cys.
Pour No.17	30.3 Cys.
Pour No.18	25.2 Cys.
Pour No.19	30.3 Cys.
Pour No.20	13.4 Cys.
Pour No.21	13.4 Cys.
Total Concrete Class "C" in Superstructure	123.8 Cys.

MISCELLANEOUS	
Aggregate for End Bent Backfil	22 Cys.
Geotextile for Underdrains, Type 1A	68 Sys.
Structural Members, Concrete Box Beam, CB17x48	359 Lft.
Railing, Concrete, FT	15.0 Cys.
Barrier Delineator	5 Ea.
Field Drilled Hole in Concrete	12 Ea.
Threaded Tie-Bar Assembly, E.C. (#5E)	32 Ea.
Surface Seal (Est. Quantity)	1020 Sft.
End Bent Drain Pipe 6"	102 Lft.
Longitudinal Grooving	398 Sys.

BILL OF MATERIALS

SUPERSTRUCTURE
PHASE II

EPOXY COATED REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	32	34'-9"	
#8E	28	4'-0"	
Total #8E			3268
#7E	24	43'-8"	
#7E	12	38'-4"	
#7E	36	6'-2"	
#7E	14	4'-0"	
Total #7E			3650
602aE	88	19'-6"	
606aE	92	8'-5"	
607aE	148	7'-8"	
608aE	52	18'-0"	
609aE	52	17'-10"	
#6E	297	43'-4"	
#6E	8	38'-6"	
#6E	632	35'-1"	
#6E	396	33'-6"	
#6E	144	3'-0"	
Total #6E			81912
501aE	736	4'-0"	
502aE	368	5'-6"	
#5E	72	6'-2"	
Total #5E			5645
401aE	366	6'-1"	
402aE	96	8'-4"	
403aE	148	3'-6"	
404aE	3	6'-3"	
405aE	3	4'-11"	
406aE	3	6'-3"	
407aE	3	4'-11"	
#4E	8	37'-10"	
Total #4E			2614
Total Epoxy Coated Reinforcing Bars			97089

CONCRETE	
Concrete Class "C" in Superstructure	
Pour No.8	11.6 Cys.
Pour No.9	11.6 Cys.
Pour No.10	64.5 Cys.
Pour No.11	61.6 Cys.
Pour No.12	64.5 Cys.
Pour No.13	28.2 Cys.
Pour No.14	28.1 Cys.
Total Concrete Class "C" in Superstructure	270.1 Cys.

MISCELLANEOUS	
Aggregate for End Bent Backfil	66 Cys.
Geotextile for Underdrains, Type 1A	168 Sys.
Structural Members, Concrete Box Beam, CB17x48	838 Lft.
Railing, Concrete, FT	30.0 Cys.
Barrier Delineator	11 Ea.
Threaded Tie-Bar Assembly, E.C. (#5E)	64 Ea.
Surface Seal (Est. Quantity)	2040 Sft.
End Bent Drain Pipe 6"	180 Lft.
Longitudinal Grooving	854 Sys.

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

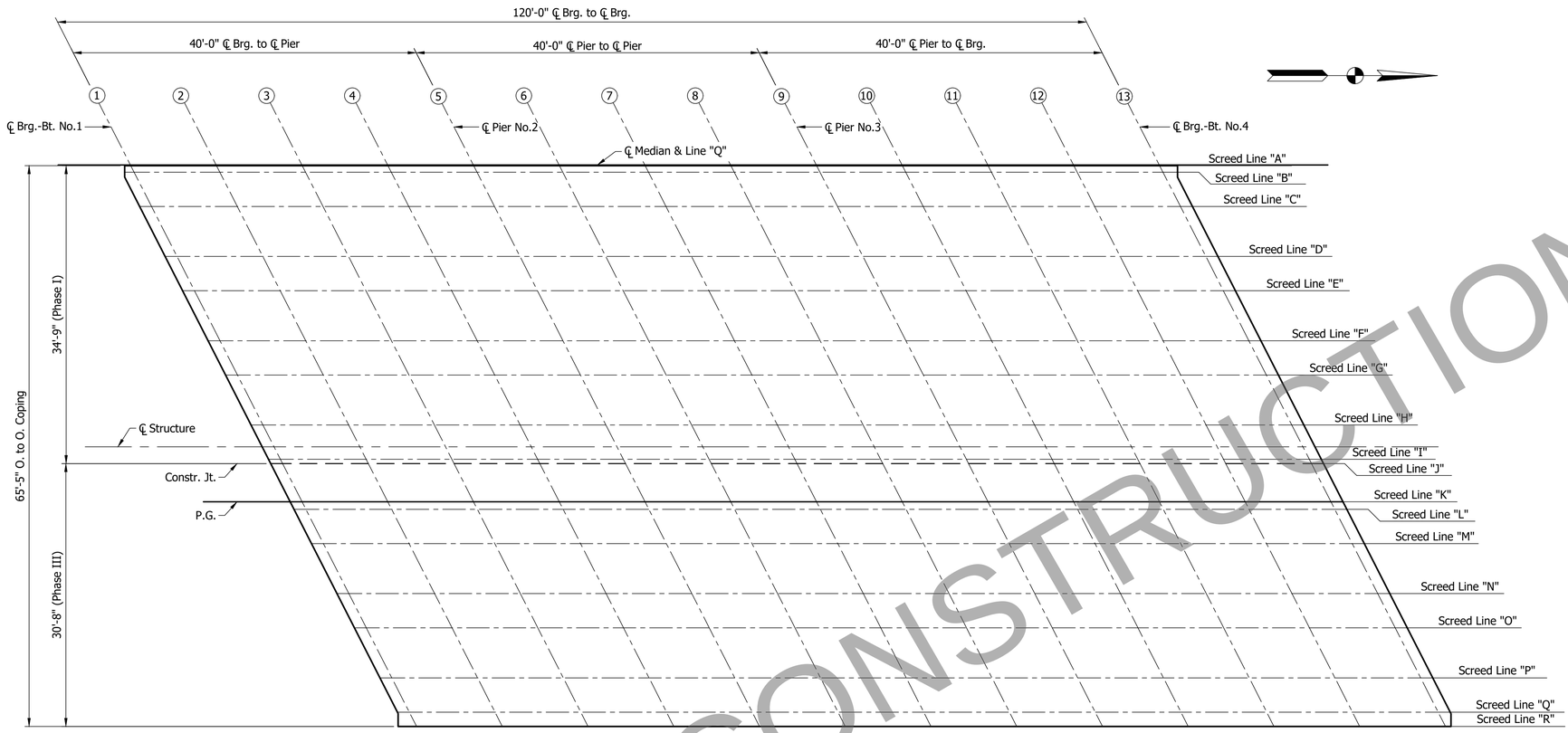
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS DRAWN: LLB
CHECKED: APL CHECKED: APL

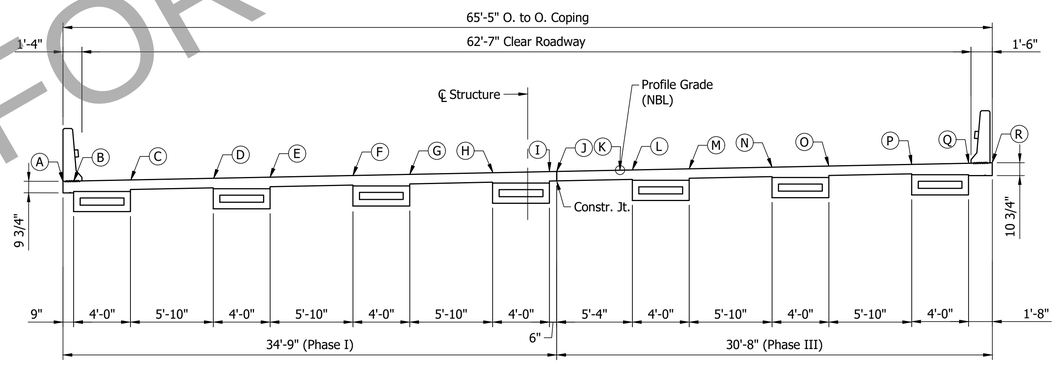
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C47 of C57	59 of 71
CONTRACT	PROJECT
R-41529	1700135



SCREED PLAN
(Northbound)
Scale: 1/8" = 1'-0"



TYPICAL SECTION
Scale: 3/16" = 1'-0"

Notes:

After beams are set, take elevations at all screed points on top of beams. Enter these elevations in the table on Dwg.C49. Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting screed forms above these points. These dimensions remain constant regardless of how much or in what order the concrete is poured. DO NOT SET SCREED FORMS BY LEVELING. No concrete in the floor slab shall be poured until the above operations are completed.

Screed elevations as shown in the table include an allowance for concrete dead load deflections.

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Table of Screed Elevations, see Dwg.C49.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SCREEDS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C48 of C57	60 of 71
CONTRACT	PROJECT
R-41529	1700135

TABLE OF SCREED ELEVATIONS - NORTHBOUND LANES

SCREED LINE	LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13
A	Elevation - Top of Screed	489.775	489.770	489.740	489.675	489.585	489.580	489.555	489.490	489.400	489.400	489.370	489.310	489.220
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
B	Elevation - Top of Screed	489.785	489.780	489.750	489.690	489.600	489.595	489.565	489.505	489.415	489.415	489.385	489.320	489.235
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
C	Elevation - Top of Screed	489.855	489.850	489.820	489.760	489.670	489.665	489.635	489.575	489.485	489.485	489.455	489.390	489.305
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
D	Elevation - Top of Screed	489.960	489.955	489.925	489.860	489.775	489.770	489.740	489.680	489.590	489.585	489.560	489.495	489.410
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
E	Elevation - Top of Screed	490.030	490.025	489.995	489.930	489.845	489.840	489.810	489.750	489.660	489.655	489.630	489.565	489.480
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
F	Elevation - Top of Screed	490.130	490.125	490.100	490.035	489.945	489.940	489.915	489.850	489.765	489.760	489.730	489.670	489.585
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
G	Elevation - Top of Screed	490.205	490.200	490.170	490.105	490.015	490.150	489.985	489.920	489.835	489.830	489.805	489.740	489.655
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
H	Elevation - Top of Screed	490.305	490.300	490.270	490.210	490.120	490.115	490.090	490.025	489.940	489.935	489.905	489.845	489.760
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
I	Elevation - Top of Screed	490.375	490.370	490.340	490.280	490.190	490.185	490.160	490.095	490.010	490.005	489.980	489.915	489.830
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
J	Elevation - Top of Screed	490.385	490.380	490.350	490.290	490.200	490.195	490.165	490.105	490.015	490.015	489.985	489.925	489.840
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
K	Elevation - Top of Screed	490.465	490.460	490.430	490.370	490.280	490.275	490.250	490.185	490.100	490.095	490.065	490.005	489.915
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
L	Elevation - Top of Screed	490.480	490.475	490.445	490.380	490.295	490.290	490.260	490.200	490.110	490.110	490.080	490.020	489.935
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
M	Elevation - Top of Screed	490.550	490.545	490.515	490.450	490.365	490.360	490.330	490.270	490.185	490.180	490.150	490.090	490.005
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
N	Elevation - Top of Screed	490.650	490.645	490.620	490.555	490.465	490.465	490.435	490.375	490.285	490.280	490.255	490.195	490.105
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
O	Elevation - Top of Screed	490.720	490.715	490.690	490.625	490.540	490.535	490.505	490.445	490.355	490.355	490.325	490.265	490.180
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
P	Elevation - Top of Screed	490.825	490.820	490.790	490.730	490.640	490.640	490.610	490.545	490.460	490.460	490.430	490.370	490.280
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
Q	Elevation - Top of Screed	490.895	490.890	490.865	490.800	490.710	490.710	490.680	490.620	490.530	490.530	490.500	490.440	490.355
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
R	Elevation - Top of Screed	490.925	490.920	490.890	490.830	490.740	490.740	490.710	490.650	490.560	490.560	490.530	490.470	490.385
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													

NOT FOR CONSTRUCTION

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Screed Plan and Typical Section, see Dwg.C48.

Screed elevations as shown in the table include an allowance for concrete dead load deflections.

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

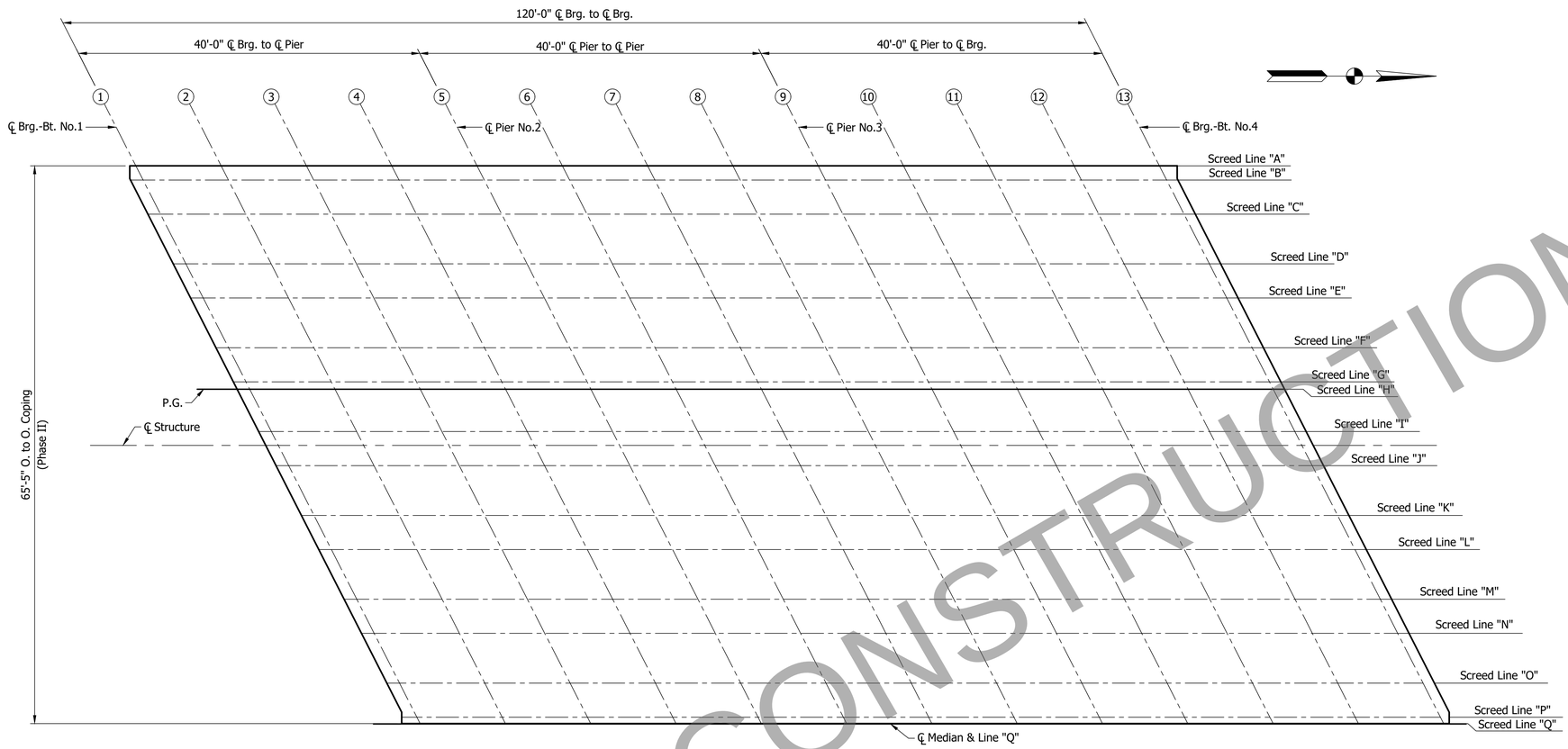
DESIGNED: LLS | DRAWN: LLB

CHECKED: APL | CHECKED: APL

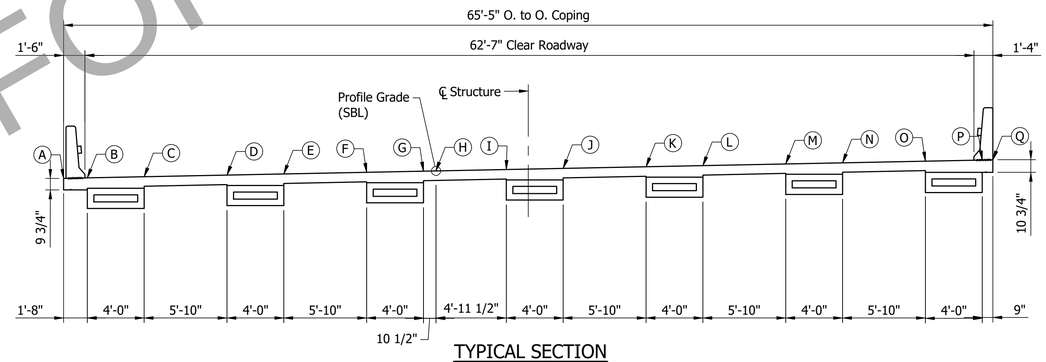
INDIANA
DEPARTMENT OF TRANSPORTATION

SCREEDS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C49 of C57	61 of 71
CONTRACT	PROJECT
R-41529	1700135



SCREED PLAN
(Southbound)
Scale: 1/8" = 1'-0"



TYPICAL SECTION
Scale: 3/16" = 1'-0"

Notes:

After beams are set, take elevations at all screed points on top of beams. Enter these elevations in the table on Dwg.C51. Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting screed forms above these points. These dimensions remain constant regardless of how much or in what order the concrete is poured. DO NOT SET SCREED FORMS BY LEVELING. No concrete in the floor slab shall be poured until the above operations are completed.

Screed elevations as shown in the table include an allowance for concrete dead load deflections.

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Table of Screed Elevations, see Dwg.C51.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SCREEDS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C50 of C57	62 of 71
CONTRACT	PROJECT
R-41529	1700135

TABLE OF SCREED ELEVATIONS - SOUTHBOUND LANES

SCREED LINE	LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13
A	Elevation - Top of Screed	491.040	491.035	491.000	490.940	490.850	490.845	490.815	490.750	490.660	490.655	490.630	490.565	490.475
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
B	Elevation - Top of Screed	491.070	491.060	491.030	490.965	490.875	490.875	490.845	490.780	490.690	490.685	490.655	490.595	490.505
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
C	Elevation - Top of Screed	491.140	491.130	491.100	491.035	490.950	490.945	490.915	491.850	490.760	490.755	490.725	490.665	490.575
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
D	Elevation - Top of Screed	491.240	491.235	491.205	491.140	491.050	491.045	491.015	490.950	490.865	490.860	490.830	490.765	490.680
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
E	Elevation - Top of Screed	491.310	491.305	491.275	491.210	491.120	491.115	491.085	491.025	490.935	490.930	490.900	490.840	490.750
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
F	Elevation - Top of Screed	491.410	491.405	491.375	491.315	491.225	491.220	491.190	491.125	491.035	491.035	491.005	490.940	490.855
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
G	Elevation - Top of Screed	491.485	491.480	491.445	491.385	491.295	491.290	491.260	491.195	491.105	491.105	491.075	491.010	490.925
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
H	Elevation - Top of Screed	491.495	491.490	491.460	491.400	491.310	491.305	491.275	491.215	491.125	491.120	491.095	491.030	490.940
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
I	Elevation - Top of Screed	491.585	491.580	491.550	491.485	491.395	491.390	491.360	491.300	491.210	491.205	491.175	491.115	491.030
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
J	Elevation - Top of Screed	491.655	491.650	491.620	491.555	491.465	491.465	491.435	491.370	491.280	491.275	491.250	491.185	491.100
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
K	Elevation - Top of Screed	491.755	491.750	491.720	491.660	491.570	491.565	491.535	491.475	491.385	491.380	491.350	491.290	491.200
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
L	Elevation - Top of Screed	491.830	491.825	491.795	491.730	491.640	491.635	491.605	491.545	491.455	491.450	491.420	491.360	491.275
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
M	Elevation - Top of Screed	491.930	491.925	491.895	491.830	491.745	491.740	491.710	491.645	491.560	491.555	491.525	491.465	491.375
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
N	Elevation - Top of Screed	492.000	491.995	491.965	491.900	491.815	491.810	491.780	491.715	491.630	491.625	491.595	491.535	491.445
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
O	Elevation - Top of Screed	492.105	492.100	492.070	492.005	491.915	491.910	491.885	491.820	491.730	491.730	491.700	491.640	491.550
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
P	Elevation - Top of Screed	492.175	492.170	492.140	492.075	491.985	491.980	491.955	491.890	491.800	491.800	491.770	491.710	491.620
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													
Q	Elevation - Top of Screed	492.185	492.180	492.150	492.090	492.000	491.995	491.965	491.905	491.815	491.810	491.785	491.720	491.635
	Elevation - Top of Beam													
	Distance - Top of Beam to Top of Screed													

NOT FOR CONSTRUCTION

Notes:

For General Notes, Design Data & Typical Section, see Dwg.C4.

For Screed Plan and Typical Section, see Dwg.C50.

Screed elevations as shown in the table include an allowance for concrete dead load deflections.

FOR INFORMATION ONLY

Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

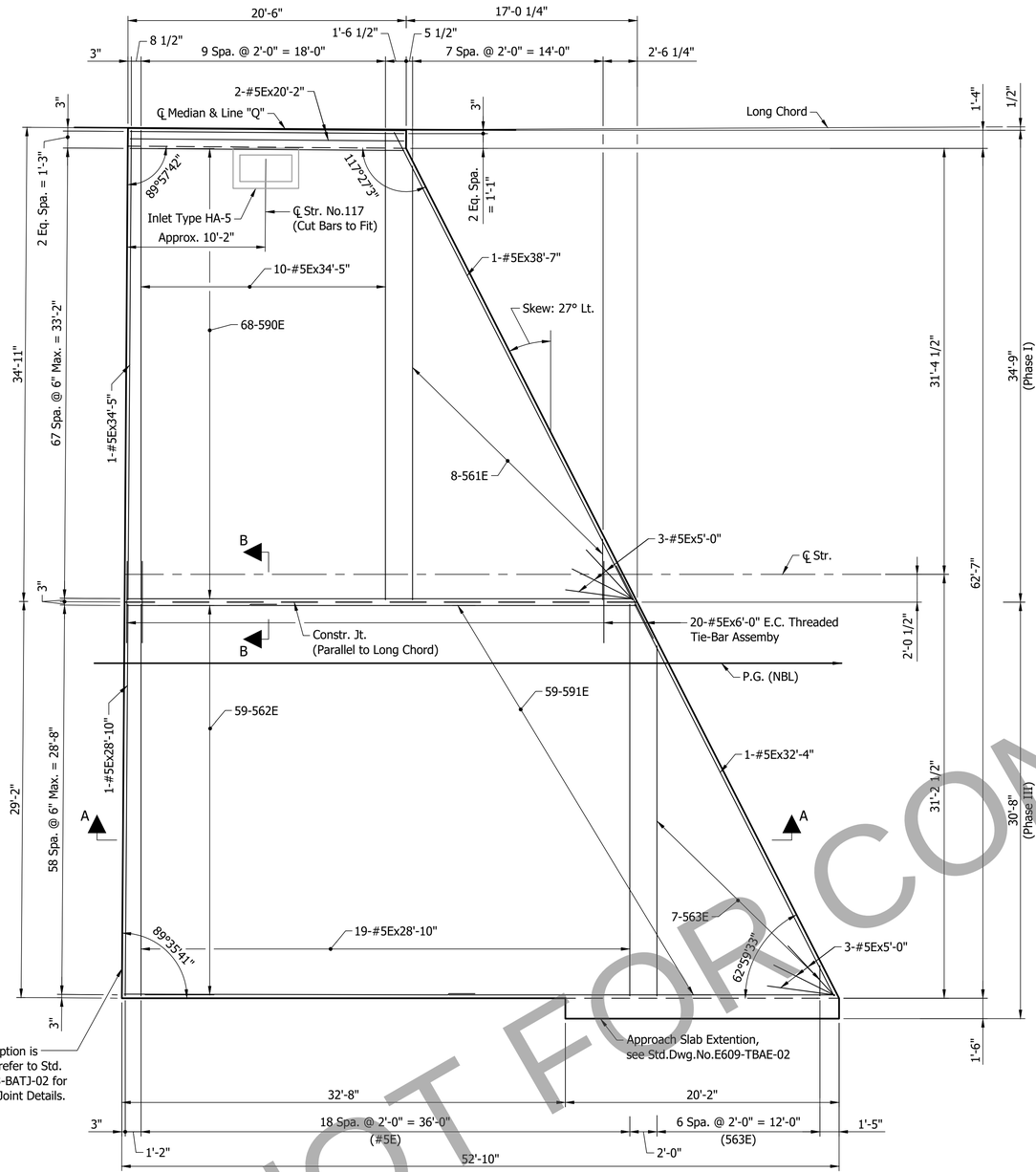
DESIGNED: LLS | DRAWN: LLB

CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

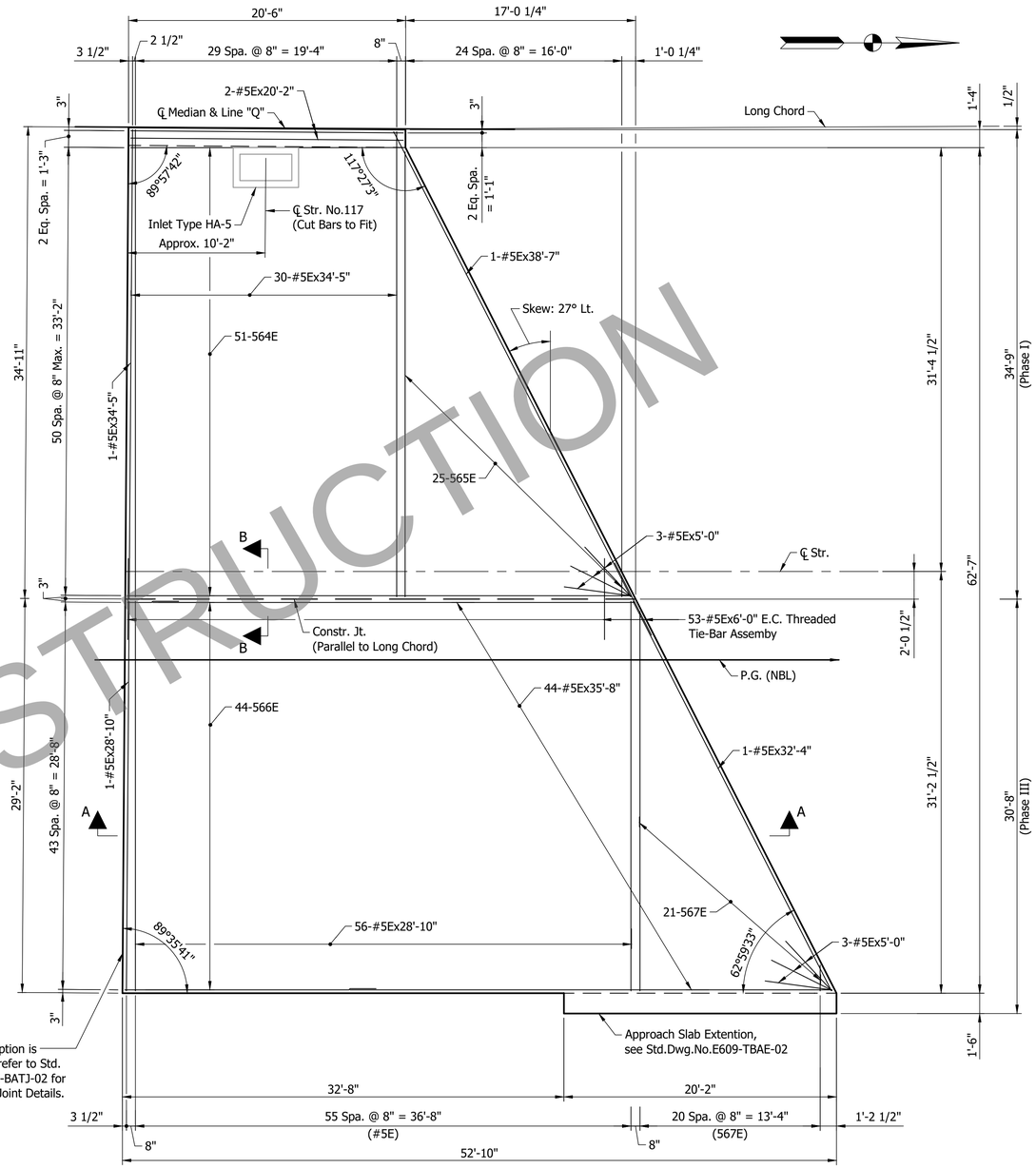
SCREEDS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C51 of C57	63 of 71
CONTRACT	PROJECT
R-41529	1700135



BOTTOM REINFORCING

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)



TOP REINFORCING

APPROACH SLAB PLAN
(Northbound - Bent No.1)
Scale: 3/16" = 1'-0"

Notes:

For General Notes, see Dwg.C3.
For Section A-A, B-B & Pavement Ledge Details, see Dwgs.C56 - C57.
For additional details, see Dwgs.C53 - C57.
For Bar Bending Diagram and Bill of Materials, see Dwg.C57.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.
For HA-5 Inlet Information, see Road Plans.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

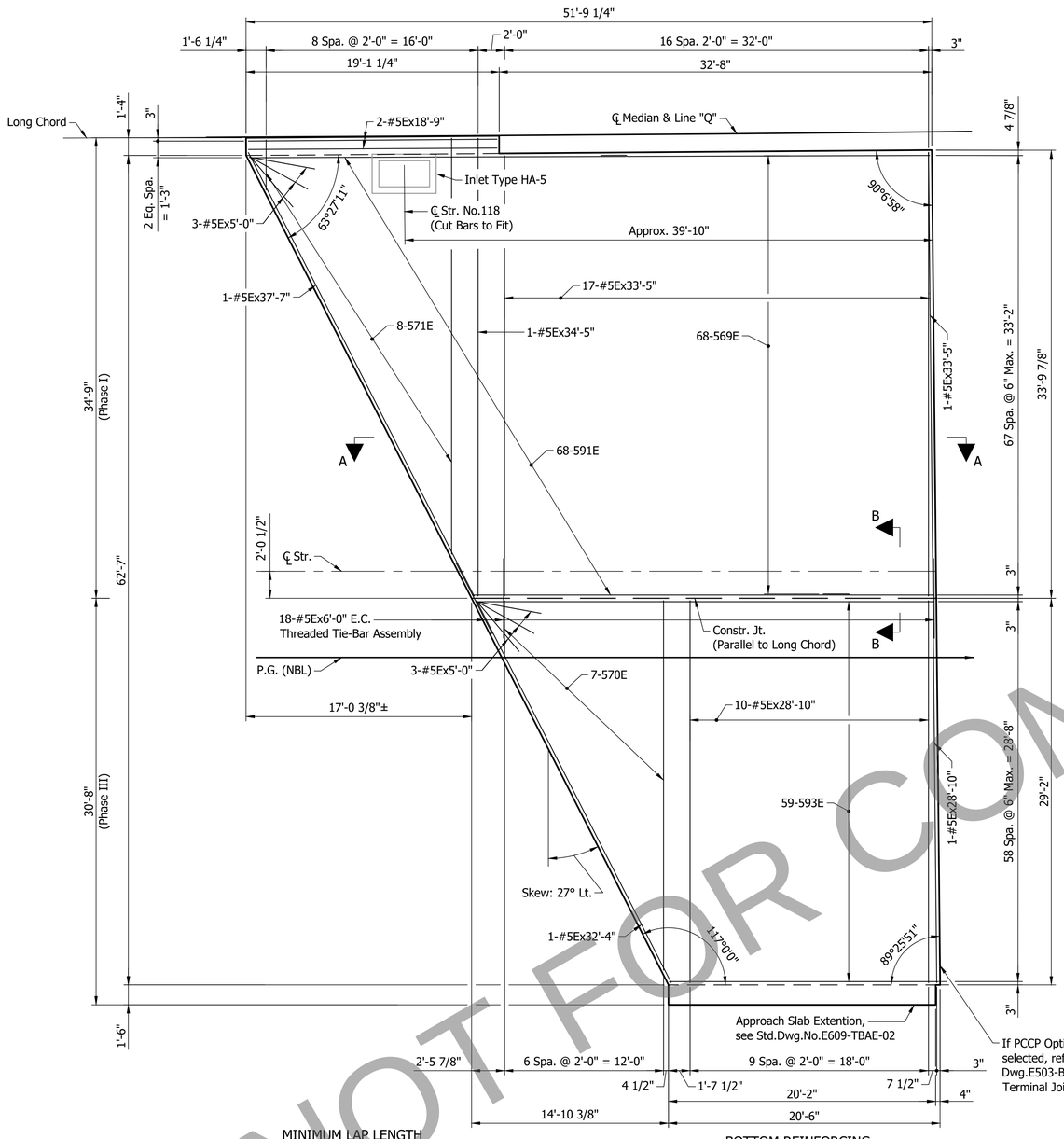
DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
NORTHBOUND

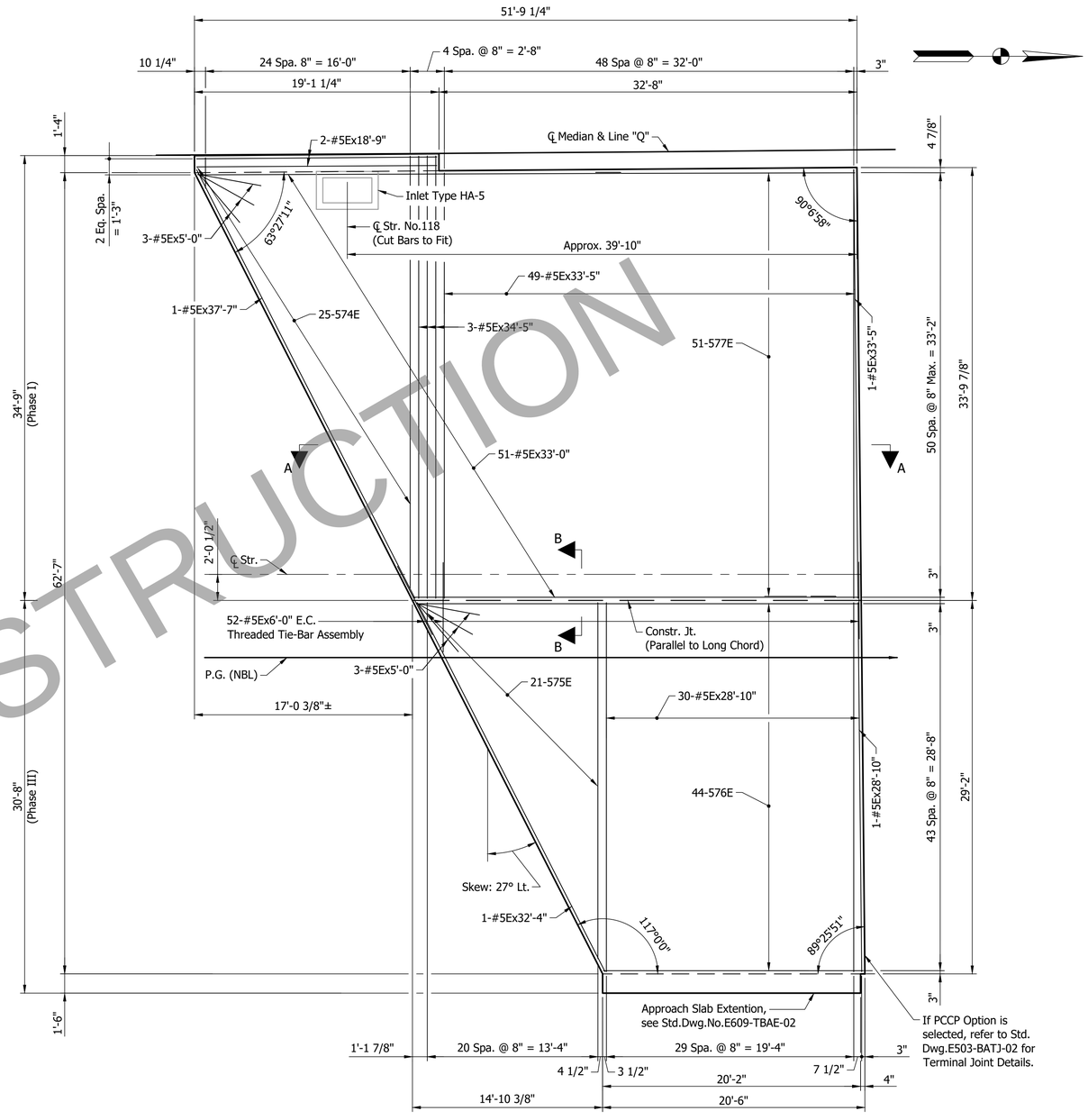
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)

DRAWING NO.	SHEETS
C52 of C57	64 of 71
CONTRACT	PROJECT
R-41529	1700135



MINIMUM LAP LENGTH
2'-0" (#5E to #5E)

BOTTOM REINFORCING



TOP REINFORCING

Notes:

For General Notes, see Dwg.C3.
For Section A-A, B-B & Pavement Ledge Details, see Dwgs.C56 - C57.
For additional details, see Dwgs.C52 & C54 - C57.
For Bar Bending Diagram and Bill of Materials, see Dwg.C57.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.
For HA-5 Inlet, see Road Plans.

APPROACH SLAB PLAN
(Northbound - Bent No.4)
Scale: 3/16" = 1'-0"

NOT FOR CONSTRUCTION

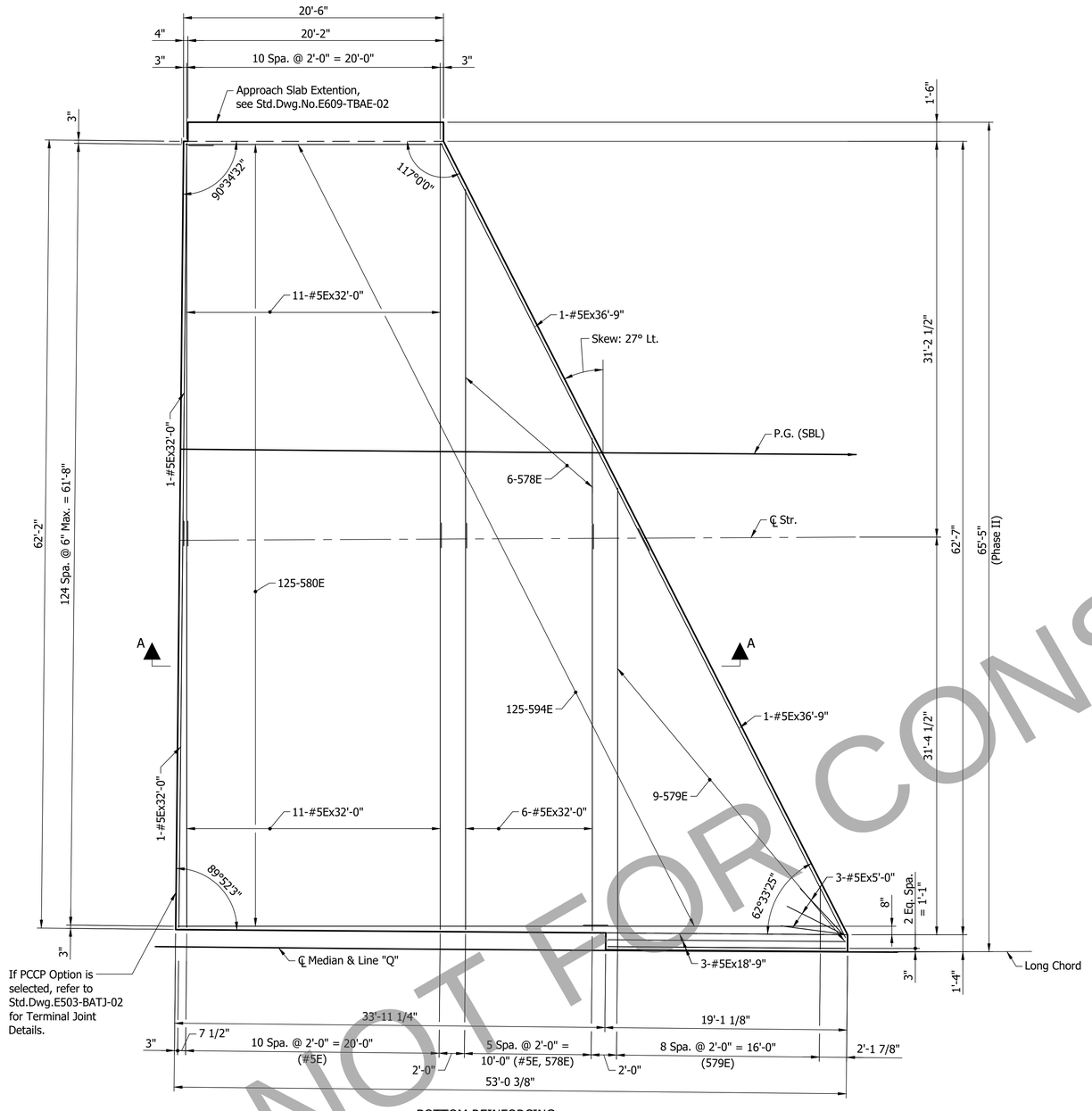
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

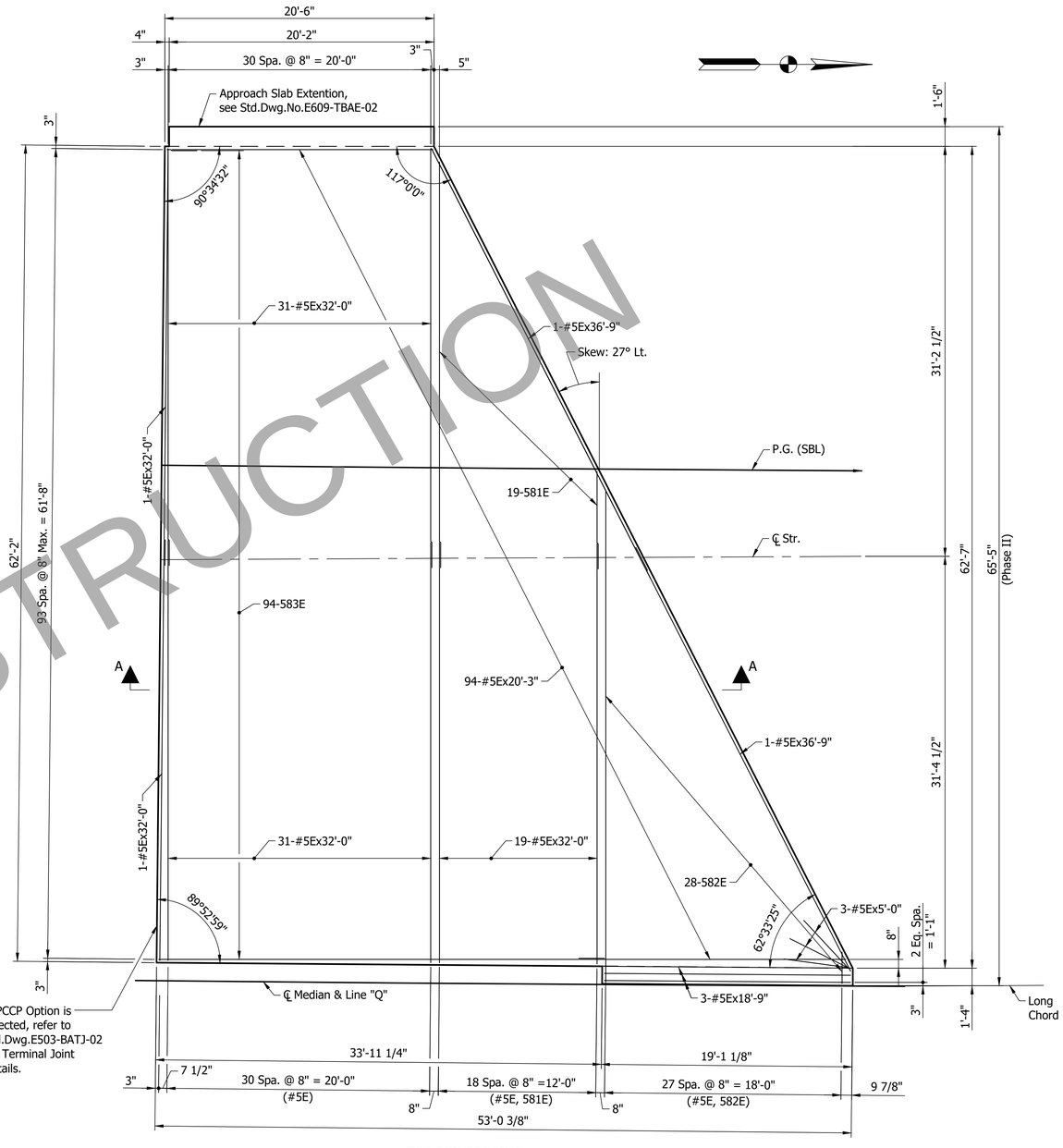
APPROACH SLAB DETAILS
NORTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C53 of C57	65 of 71
CONTRACT	PROJECT
R-41529	1700135



BOTTOM REINFORCING

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)



TOP REINFORCING

APPROACH SLAB PLAN
(Southbound - Bent No.1)
Scale: 3/16" = 1'-0"

Notes:

For General Notes, see Dwg.C3.
For Section A-A & Pavement Ledge Details, see Dwgs.C56 - C57.
For additional details, see Dwgs.C52 - C53 & C55 - C57.
For Bar Bending Diagram and Bill of Materials, see Dwg.C57.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

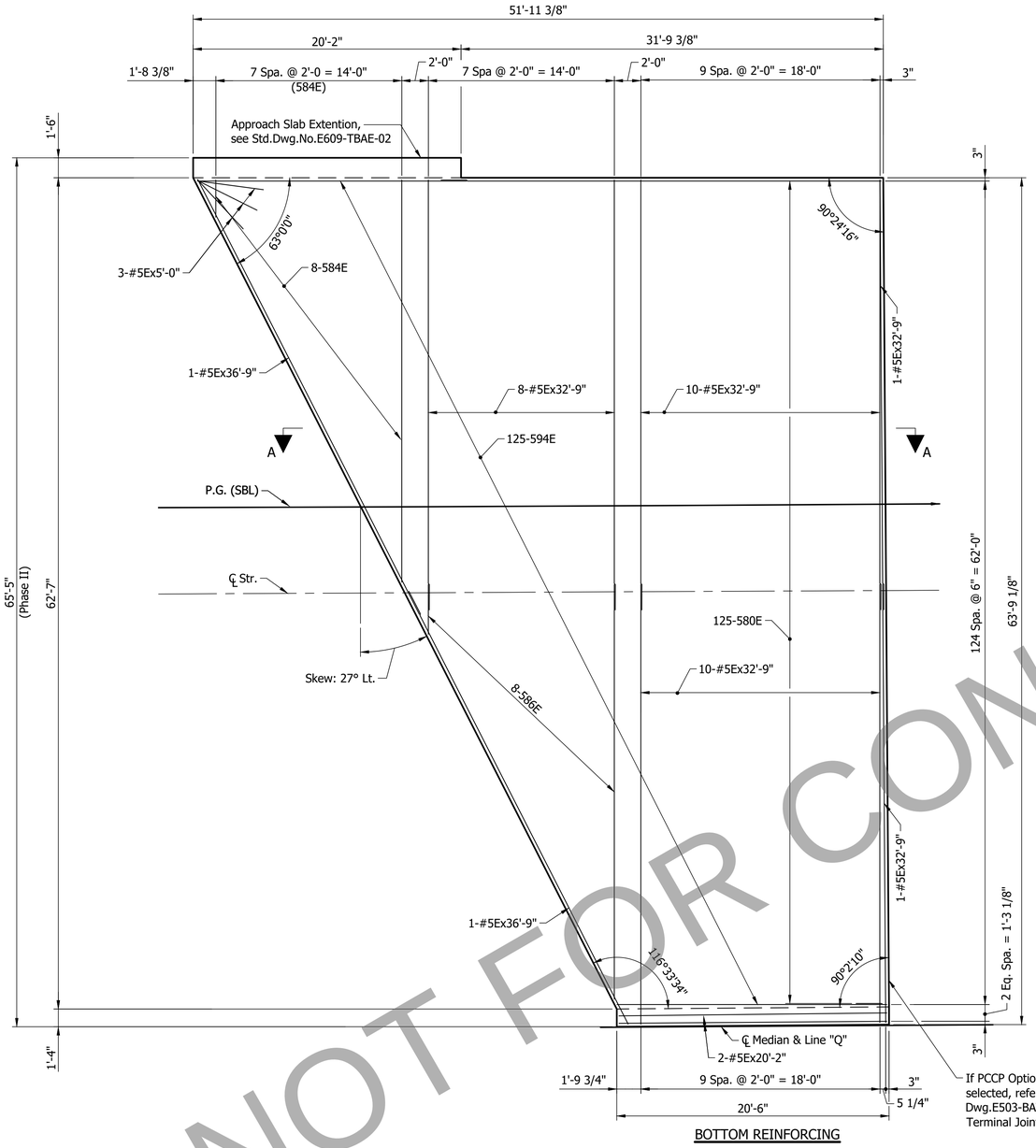
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

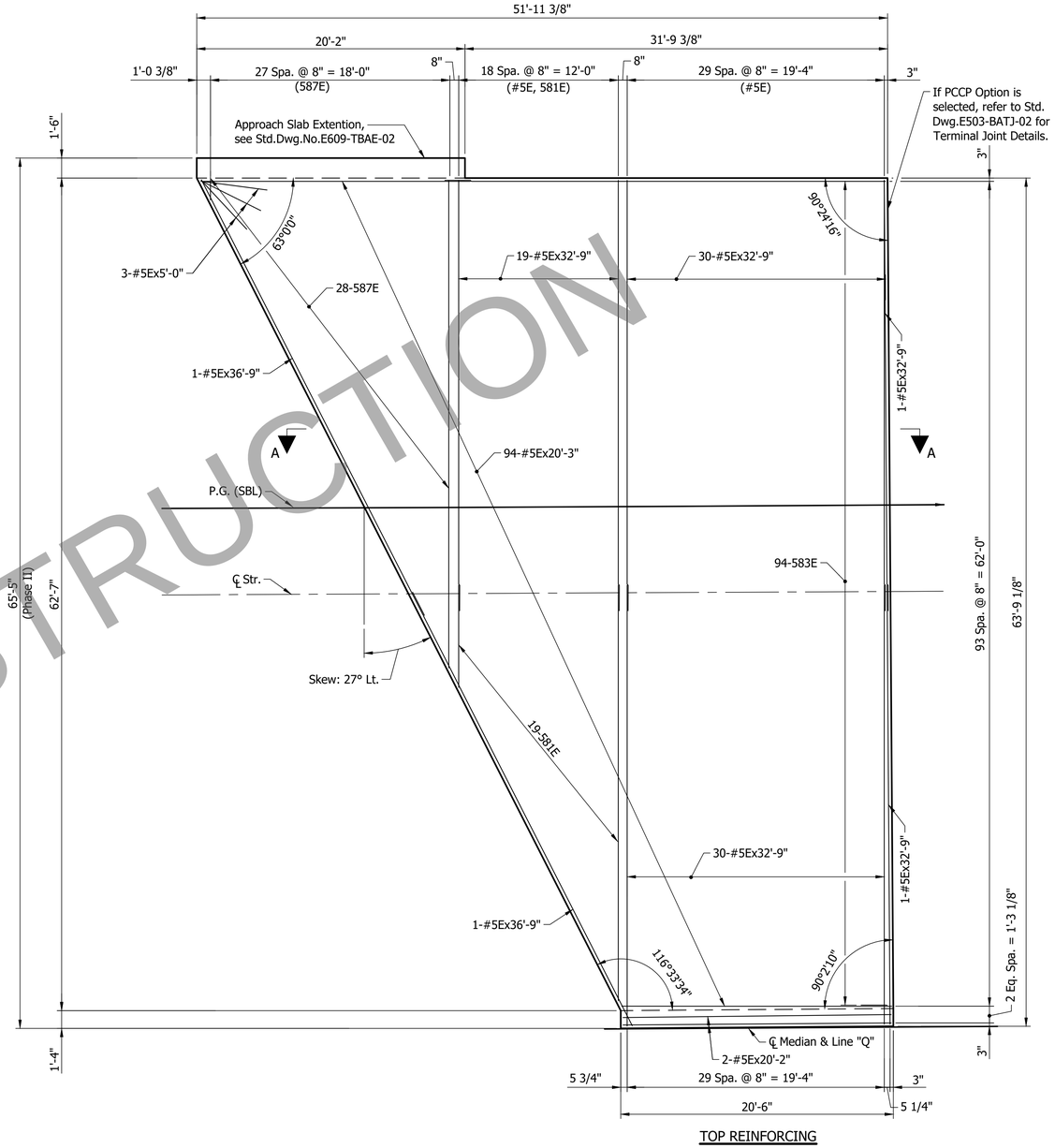
APPROACH SLAB DETAILS
SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C54 of C57	66 of 71
CONTRACT	PROJECT
R-41529	1700135



BOTTOM REINFORCING

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)



TOP REINFORCING

APPROACH SLAB PLAN
(Southbound - Bent No.4)
Scale: 3/16" = 1'-0"

Notes:

For General Notes, see Dwg.C3.
For Section A-A & Pavement Ledge Details, see Dwgs.C56 - C57.
For additional details, see Dwgs.C52 - C54 & C56 - C57.
For Bar Bending Diagram and Bill of Materials, see Dwg.C57.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

NOT FOR CONSTRUCTION

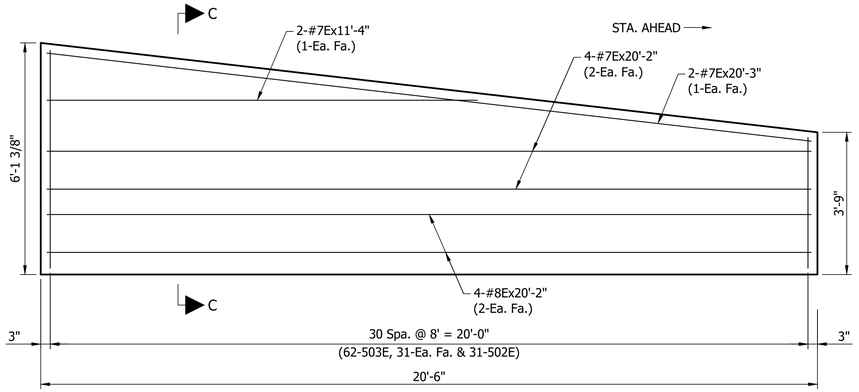
FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS	DRAWN: LLB
CHECKED: APL	CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

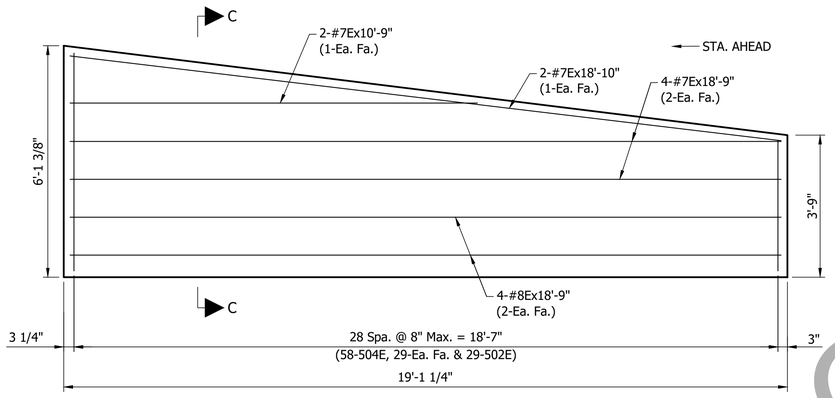
APPROACH SLAB DETAILS
SOUTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C55 of C57	67 of 71
CONTRACT	PROJECT
R-41529	1700135



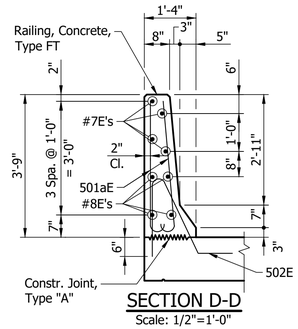
RAILING ELEVATION - AT MEDIAN NBL BENT NO.1
FT RAIL, MODIFIED

(Northbound, Front Face, Showing F.F. Steel for Clarity)
Scale: 1/2"=1'-0"



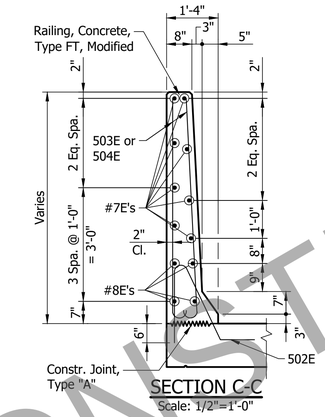
RAILING ELEVATION - AT MEDIAN NBL BENT NO.4
FT RAIL, MODIFIED

(Northbound, Rear Face, Showing R.F. Steel for Clarity)
Scale: 1/2"=1'-0"



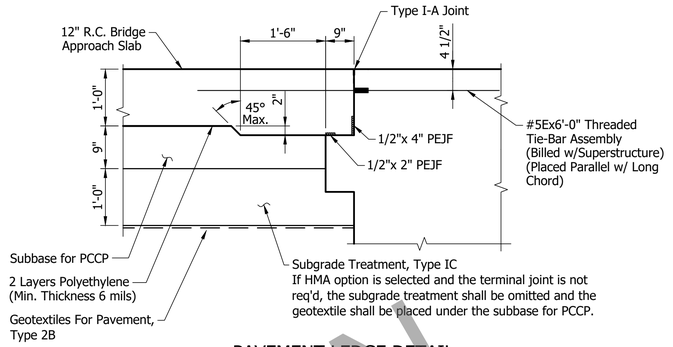
SECTION D-D

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



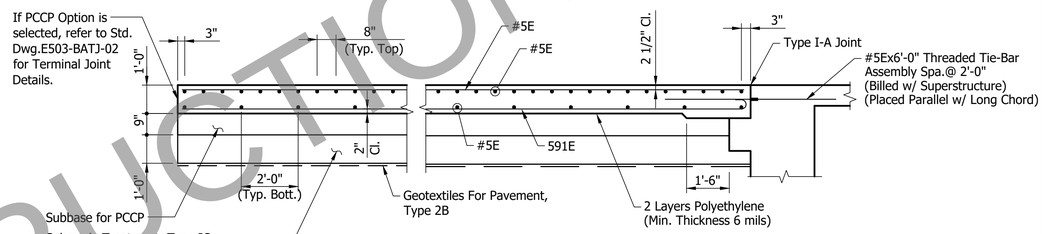
SECTION C-C

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



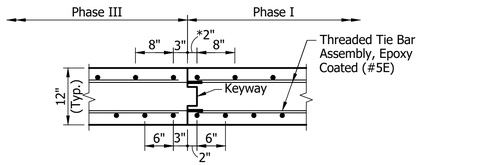
PAVEMENT LEDGE DETAIL

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



SECTION A-A

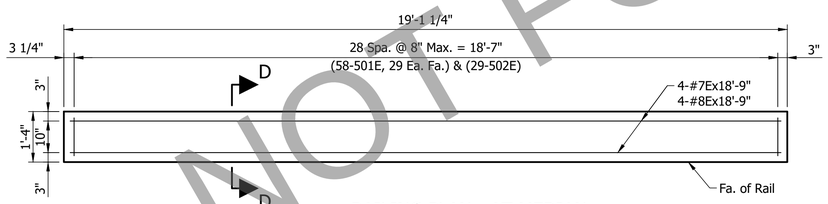
Scale: 3/8"=1'-0"



SECTION B-B

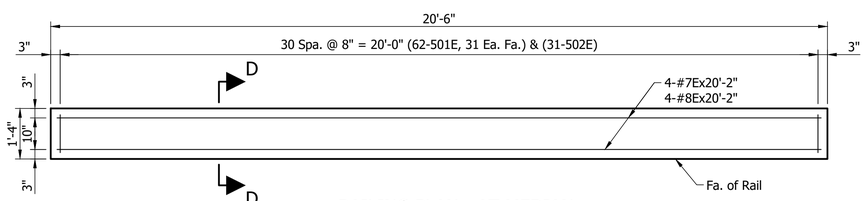
Scale: 3/4" = 1'-0"

* Place Bars to avoid conflicts with Temporary Traffic Barrier Anchors.



RAILING PLAN - AT MEDIAN
BENT NO.1

(Southbound)
Scale: 1/2"=1'-0"



RAILING PLAN - AT MEDIAN
BENT NO.4

(Southbound)
Scale: 1/2"=1'-0"

Notes:

For General Notes, see Dwg.C3.
For location of Sections A-A & B-B, see Dwgs.C52 - C55.
For Bar Bending Diagram and Bill of Materials, see Dwg.C57.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.
For Rail Reinforcing Details, see Dwg.C47.

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

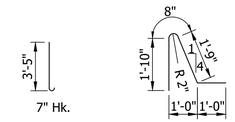
INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600744 (NB) & 1600750 (SB)

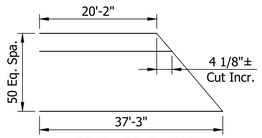
DRAWING NO.	SHEETS
C56 of C57	68 of 71
CONTRACT	PROJECT
R-41529	1700135

NOT FOR CONSTRUCTION

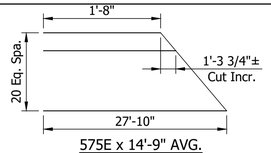


501E x 4'-0"

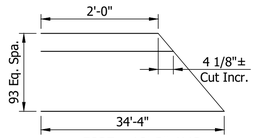
502E x 5'-6"



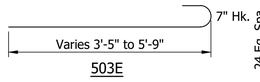
564E x 28'-9" AVG.
(Cuts 51 Bars)



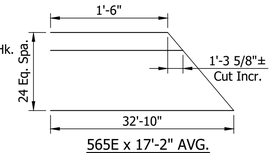
575E x 14'-9" AVG.
(Cuts 21 Bars)



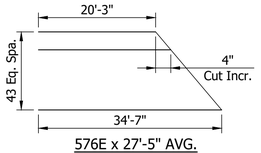
583E x 18'-2" AVG.
(Cuts 94 Bars)
(Cut 2 Sets)



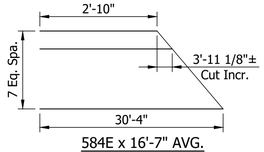
503E



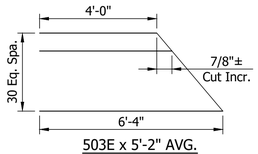
565E x 17'-2" AVG.
(Cuts 25 Bars)



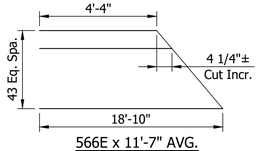
576E x 27'-5" AVG.
(Cuts 44 Bars)



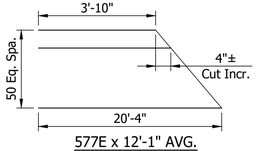
584E x 16'-7" AVG.
(Cuts 8 Bars)



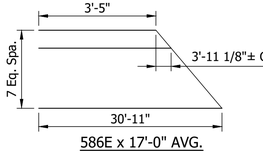
503E x 5'-2" AVG.
(Cuts 31 Bars)
(Cuts 2 Sets)



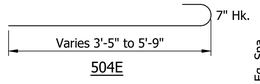
566E x 11'-7" AVG.
(Cuts 44 Bars)



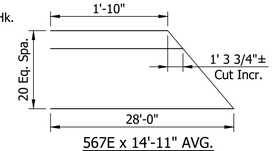
577E x 12'-1" AVG.
(Cuts 51 Bars)



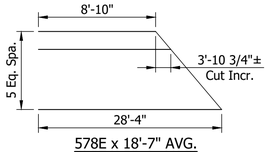
586E x 17'-0" AVG.
(Cuts 8 Bars)



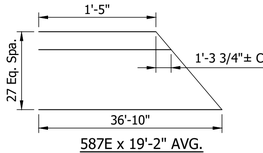
504E



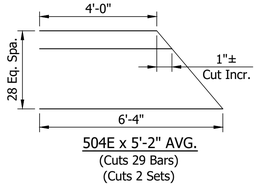
567E x 14'-11" AVG.
(Cuts 21 Bars)



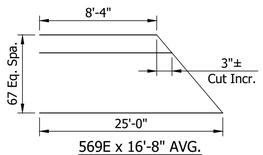
578E x 18'-7" AVG.
(Cuts 6 Bars)



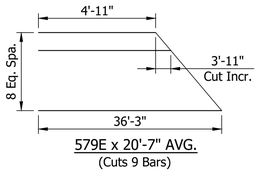
587E x 19'-2" AVG.
(Cuts 28 Bars)



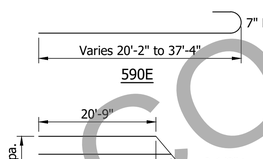
504E x 5'-2" AVG.
(Cuts 29 Bars)
(Cuts 2 Sets)



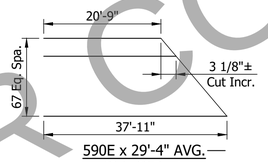
569E x 16'-8" AVG.
(Cuts 68 Bars)



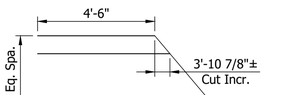
579E x 20'-7" AVG.
(Cuts 9 Bars)



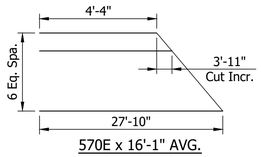
590E



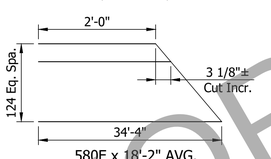
590E x 29'-4" AVG.
(Cuts 68 Bars)



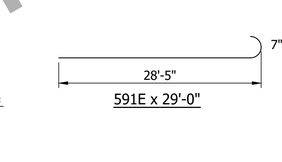
561E x 18'-2" AVG.
(Cuts 8 Bars)



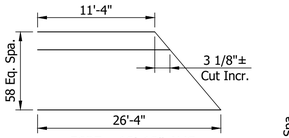
570E x 16'-1" AVG.
(Cuts 7 Bars)



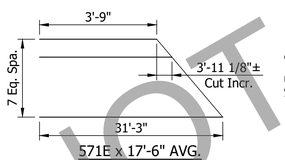
580E x 18'-2" AVG.
(Cuts 125 Bars)
(Cut 2 Sets)



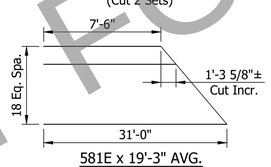
593E



562E x 18'-10" AVG.
(Cuts 59 Bars)



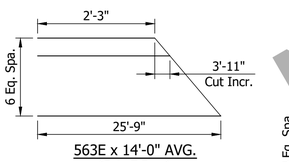
571E x 17'-6" AVG.
(Cuts 8 Bars)



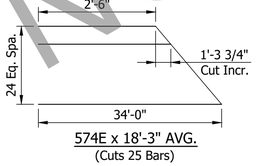
581E x 19'-3" AVG.
(Cuts 19 Bars)
(Cut 2 Sets)

591E x 29'-0"

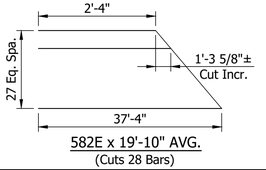
593E x 28'-1" AVG.
(Cuts 59 Bars)



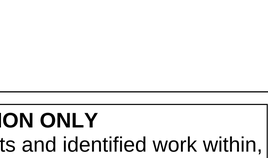
563E x 14'-0" AVG.
(Cuts 7 Bars)



574E x 18'-3" AVG.
(Cuts 25 Bars)



582E x 19'-10" AVG.
(Cuts 28 Bars)



594E x 20'-10"

BILL OF MATERIALS

APPROACH SLAB
BENT NO.1 SOUTHBOUND - PHASE II

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	4	18'-9"	
Total #8E			200
#7E	4	18'-9"	
Total #7E			153
501E	58	4'-0"	
502E	29	5'-6"	
578E	6	18'-7"	
579E	9	20'-7"	
580E	125	18'-2"	
581E	19	19'-3"	
582E	28	19'-10"	
583E	94	18'-2"	
594E	125	20'-10"	
#5E	4	36'-9"	
#5E	113	32'-0"	
#5E	94	20'-3"	
#5E	6	18'-9"	
#5E	6	5'-0"	
Total #5E			14953
Total from Br. Railing Transition, TFT			862
Total Approach Slab Extension			293
Total Epoxy Coated Reinforcing Bars			16108

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	254.4 Sys.
Approach Slab Extension	6.2 Sys.
Total Reinforced Conc. Br. Approach	260.6 Sys.
Conc. Bridge Railing Transition, TFT	1 Ea.
Subbase for PCCP	64 Cys.
Subgrade Treatment, Type IC*	261 Sys.
Geotextile for Pavement, Type 2B	254.5 Sys.
Conc. Bridge Railing, FT	2.4 Cys.
Longitudinal Grooving	261 Sys.
Surface Seal (Est. Quantity)	291 Sft.
Barrier Delineator	1 Ea.

BILL OF MATERIALS

APPROACH SLAB
BENT NO.4 SOUTHBOUND - PHASE II

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	4	20'-2"	
Total #8E			215
#7E	4	20'-2"	
Total #7E			165
501E	62	4'-0"	
502E	31	5'-6"	
580E	125	18'-2"	
581E	19	19'-3"	
583E	94	18'-2"	
584E	8	16'-7"	
586E	8	17'-2"	
587E	28	19'-2"	
594E	125	20'-10"	
#5E	4	36'-9"	
#5E	111	32'-9"	
#5E	94	20'-3"	
#5E	4	20'-2"	
#5E	6	5'-0"	
Total #5E			14570
Total from Br. Railing Transition, TFT			862
Total Approach Slab Extension			293
Total Epoxy Coated Reinforcing Bars			16105

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	251.7 Sys.
Approach Slab Extension	6.5 Sys.
Total Reinforced Conc. Br. Approach	258.2 Sys.
Conc. Bridge Railing Transition, TFT	1 Ea.
Subbase for PCCP	64 Cys.
Subgrade Treatment, Type IC*	259 Sys.
Geotextile for Pavement, Type 2B	252.5 Sys.
Conc. Bridge Railing, FT	2.5 Cys.
Longitudinal Grooving	259 Sys.
Surface Seal (Est. Quantity)	281 Sft.
Barrier Delineator	1 Ea.

BILL OF MATERIALS

APPROACH SLAB
BENT NO.1 NORTHBOUND - PHASE I

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	4	20'-2"	
Total #8E			215
#7E	2	20'-3"	
#7E	4	20'-2"	
#7E	2	11'-4"	
Total #7E			294
502E	31	5'-6"	
503E	62	5'-2"	
561E	8	18'-2"	
564E	51	28'-9"	
565E	25	17'-2"	
590E	68	29'-4"	
#5E	2	38'-7"	
#5E	42	34'-5"	
#5E	4	20'-2"	
#5E	6	5'-0"	
Total #5E			6422
Total Epoxy Coated Reinforcing Bars			6931

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	108.4 Sys.
Approach Slab Extension	3.0 Sys.
Total Reinforced Conc. Br. Approach	111.4 Sys.
Subbase for PCCP	28 Cys.
Subgrade Treatment, Type IC*	112 Sys.
Geotextile for Pavement, Type 2B	108.5 Sys.
Conc. Bridge Railing, FT, Modified	3.2 Cys.
Threaded Tie-Bar Assembly, E.C. (#5E)	73 Ea.
Longitudinal Grooving	112 Sys.
Surface Seal (Est. Quantity)	170 Sft.

BILL OF MATERIALS

APPROACH SLAB
BENT NO.4 NORTHBOUND - PHASE III

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
570E	7	16'-1"	
575E	21	14'-9"	
576E	44	27'-5"	
593E	59	28'-1"	
#5E	2	32'-4"	
#5E	42	28'-10"	
#5E	6	5'-0"	
Total #5E			4787
Total from Br. Railing Transition, TFT			862
Total Approach Slab Extension			293
Total Epoxy Coated Reinforcing Bars			5942

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	90.1 Sys.
Approach Slab Extension	3.4 Sys.
Total Reinforced Conc. Br. Approach	93.5 Sys.
Conc. Bridge Railing Transition, TFT	1 Ea.
Subbase for PCCP	23 Cys.
Subgrade Treatment, Type IC*	94 Sys.
Geotextile for Pavement, Type 2B	91.0 Sys.
Longitudinal Grooving	94 Sys.
Surface Seal (Est. Quantity)	121 Sft.
Barrier Delineator	1 Ea.

BILL OF MATERIALS

APPROACH SLAB
BENT NO.1 NORTHBOUND - PHASE III

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
562E	59	18'-10"	
563E	7	14'-0"	
566E	44	11'-7"	
567E	21	14'-11"	
591E	59	29'-0"	
#5E	44	35'-8"	
#5E	2	32'-4"	
#5E	77	28'-10"	
#5E	6	5'-0"	
Total #5E			7955
Total from Br. Railing Transition, TFT			862
Total Approach Slab Extension			293
Total Epoxy Coated Reinforcing Bars			9110

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	146.8 Sys.
Approach Slab Extension	3.5 Sys.
Total Reinforced Conc. Br. Approach	150.3 Sys.
Conc. Bridge Railing Transition, TFT	1 Ea.
Subbase for PCCP	37 Cys.
Subgrade Treatment, Type IC*	151 Sys.
Geotextile for Pavement, Type 2B	148.0 Sys.
Longitudinal Grooving	151 Sys
Surface Seal (Est. Quantity)	121 Sft.
Barrier Delineator	1 Ea.

BILL OF MATERIALS

APPROACH SLAB
BENT NO.4 NORTHBOUND - PHASE I

EPOXY COATED REINFORCING BARS

SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	4	18'-9"	
Total #8E			200
#7E	2	18'-10"	
#7E	4	18'-9"	
#7E	2	10'-9"	
Total #7E			274
502E	29	5'-6"	
504E	58	5'-2"	
569E	68	16'-8"	
571E	8	17'-6"	
574E	25	18'-3"	
577E	51	12'-1"	
591E	68	29'-0"	
#5E	2	37'-7"	
#5E	4	34'-5"	
#5E	68	33'-5"	
#5E	51	33'-0"	
#5E	4	18'-9"	
#5E	6	5'-0"	
Total #5E			9439
Total Epoxy Coated Reinforcing Bars			9913

MISCELLANEOUS

Reinforced Conc. Br. Approach, 12"	162.4 Sys.
Approach Slab Extension	2.9 Sys.
Total Reinforced Conc. Br. Approach	165.3 Sys.
Subbase for PCCP	41 Cys.
Subgrade Treatment, Type IC*	166 Sys.
Geotextile for Pavement, Type 2B	162.5 Sys.
Conc. Bridge Railing, FT, Modified	3.0 Cys.
Threaded Tie-Bar Assembly, E.C. (#5E)	70 Ea.
Longitudinal Grooving	166 Sys.
Surface Seal (Est. Quantity)	160 Sft.

Notes:

For General Notes, see Dwg.C3.
For additional details, see Dwgs.C52 - C56.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.

*Req'd. if PCCP option is selction.

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
C57 of C57	69 of 71
CONTRACT	PROJECT
R-41529	1700135

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE				RAILING, CONCRETE FT	RAILING, CONCRETE FT, MODIFIED	BARRIER DELINEATORS	CONC. RAILING TRANSITION, TFT	REINF. CONC. BRIDGE APPROACH, 12"	SUBBASE FOR PCCP	SUBGRADE TREATMENT, TYPE IC**	EXCAVATION, COMMON	EXCAVATION	REINF. BARS EPOXY COATED	REINF. BARS	FLOWABLE BACKFILL, NON-REMOVABLE	LONGITUDINAL GROOVING	FENCE, FARM FIELD, REMOVE	FENCE, FARM FIELD, 47 IN.	STR. MEMBER, CONC. BOX BEAM, 17 IN.X 48 IN	PIPE, END BENT DRAIN, 6 IN.	FIELD DRILLED HOLES IN CONCRETE	PILES				PATCHING CONCRETE STRUCTURES	AGGREGATE FOR END BENT BACKFILL	GEOTEXTILE FOR UNDERDRAINS, TYPE 1A	GEOTEXTILES FOR PAVEMENT, TYPE 2B	EXCAVATION FOUNDATION, UNCLASS.	PAVEMENT REMOVAL	THREADED TIE BAR ASSEMBLY, EPOXY COATED	SURFACE SEAL*
	CLASS C	CLASS C	CLASS B	CLASS A																			STEEL H, HP12x74	TEST PILE, INDICATOR, PRODUCTION	CORED HOLE IN ROCK, 24 IN	PILE SHOE, HP12X74									
	SUPERSTR.	SUBSTR.	IN FTG.	SUBSTR.									X																				
	CYS	CYS	CYS	CYS	CYS	CYS	EACH	EACH	SYS	CYS	SYS	CYS	CYS	LBS	LBS	CYS	SYS	LFT	LFT	LFT	LFT	EACH	NO.	LFT	LFT	LFT	EACH	SFT	CYS	SYS	SYS	CYS	SYS	EACH	SFT
BENT NO.1 (NBL) PH. I	6.1	8.4												1730							39	26	4	72		20	4	5	12	38		22	38		115
PIER NO.2 (NBL) PH. I	14.8		13.6	66.0									52		12245							35						15				19		12	3
PIER NO.3 (NBL) PH. I	14.8		13.6	66.0									42		12245							35						15				29		12	3
BENT NO.4 (NBL) PH. I	6.1	8.5												1730							39	26	4	72		16	4	10	12	38		22	48		115
SUPERSTRUCTURE (NBL) PH. I	97.1				15.0		6							49727			456	50		479													412	1020
R.C. BRIDGE APPROACH-BENT NO.1 (NBL) PH. I						3.2			111.4	28	112	25		6931			112														108.5			73	170
R.C. BRIDGE APPROACH-BENT NO.4 (NBL) PH. I						3.0			165.3	41	166	40		9913			166														162.5			70	160
BENT NO.1 (SBL) PH. II	11.6	24.0												3158		2					90	92	4	72		20	4	10	33	84		47	145		366
PIER NO.2 (SBL) PH. II	28.2		16.8	107.4									66		17890							98						10				24			9
PIER NO.3 (SBL) PH. II	28.1		16.8	107.4									54		17890							98										34			9
BENT NO.4 (SBL) PH. II	11.6	23.9												3197		2					90	92	4	68		16	4	10	33	84		47	177		358
SUPERSTRUCTURE (SBL) PH. II	190.6				30.0		11							97089			854	90	40	838													64	2040
R.C. BRIDGE APPROACH-BENT NO.1 (SBL) PH. II					2.4		1	1	260.6	64	261	40		16108			261														254.5				291
R.C. BRIDGE APPROACH-BENT NO.4 (SBL) PH. II					2.5		1	1	258.2	64	259	30		16105			259														252.5				281
BENT NO.1 (NBL) PH. III	5.6	6.2												860		2					51	68						5	11	34		17	140		141
PIER NO.2 (NBL) PH. III	13.4		3.3	29.2									13		4615							63						15				5			6
PIER NO.3 (NBL) PH. III	13.4		3.3	29.2									10		4617							63						15				5			6
BENT NO.4 (NBL) PH. III	5.6	6.1												871		2					51	68						10	11	34		17	97		141
SUPERSTRUCTURE (NBL) PH. III	85.8				15.0		5							44709			398	40	40	359		12											32	1020
R.C. BRIDGE APPROACH-BENT NO.1 (NBL) PH. III							1	1	150.3	37	151	5		9110			151														148				121
R.C. BRIDGE APPROACH-BENT NO.4 (NBL) PH.III							1	1	93.5	23	94			5942			94														91				121
SUBTOTAL (NBL)	262.7	29.2	33.8	190.4	30.0	6.2	13	2	521	129	523	70	117	131523	33722	4	1377	90	40	838	180	396		144		36	8	90	46	144	510	136	323	611	3142
SUBTOTAL (SBL)	270.1	47.9	33.6	214.8	34.9	0	13	2	519	128	520	70	120	135657	35780	4	1374	90	40	838	180	380		140		36	8	30	66	168	507	152	322	64	3355
TOTALS	532.8	77.1	67.4	405.2	64.9	6.2	26	4	1040	257	1043	140	237	267180	69502	8	2751	180	80	1676	360	776		284		72	16	120	112	312	1017	288	645	675	6497

* Estimated Quantity
** Req'd. if PCCP Option is selceted

NOT FOR CONSTRUCTION

FOR INFORMATION ONLY
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DESIGNED: LLS | DRAWN: NW
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	70 of 71
CONTRACT	PROJECT
R-41529	1700135

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W/LINE	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		HMA FOR APPROACHES			QA/QC HMA FOR ROADS						ASPHALT MATERIAL FOR	JOINT ADHESIVE SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUID ASPHALT SEALANT	COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE NO.53 SHOULDERS		MILLING TRANSITION	SUBGRADE TREATMENT TYPE IA	CURB, CONCRETE, TYPE B	CONCRETE SIDEWALK, 4"	CURB & GUTTER CONCRETE	REMARKS
						COMPACTED AGGREGATE BASE	HMA	PCCP	1	2	CUT	FILL	SURFACE	INTERMED	BASE	SURFACE 2, 64 9.5MM	SURFACE 2, 70 9.5MM	INTERMD 2, 64 19.0MM	INTERMD 5, 76 19.0MM	BASE 4, 64 25.0MM	BASE 5, 64 25.0MM	TACK COAT				DEPTH 6"	DEPTH 5"	DEPTH 16.75"	DEPTH 6"						
													LBS PER SYD			LBS PER SYD			LBS PER SYD														
																165	165	275	385	330	330													
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	CYS	CYS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS	LFT	LFT	LFT	CYS	CYS	TONS	TONS	SYS	SYS	LFT	SYS	LFT	
TOTALS																																			

STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL		REVETMENT RIPRAP	CONCRETE, CLASS A, FOR STRUCTURES	GEOTEXTILES FOR RIPRAP, TYPE 1A	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS
	STATION	LEFT	CROSS	RIGHT						COVER	UP STREAM	DOWN STREAM																		
					IN.			LFT		FT	ELEV.	ELEV.	YR				TYPE	CYS	TONS	CYS	SYS	EA	TYPE	SLOPE	EA.	SIZE	SLOPE	EA.		

R/W MARKER TABLE

LT./RT.	STATION	OFFSET (ft)	NO. REQ'D.	FLUSH MOUNT
TOTALS				

MAILBOX APPROACHES

LT./RT.	C/L BOX STATION	DESCRIPTION	WIDTH, W (FT)	ASSEMBLY REQ'D		
				SINGLE	DOUBLE	TRIPLE
TOTAL						

MONUMENT TABLE

LOCATION	OFFSET	TYPE	SECTION CORNER
TOTAL			

PERMANENT EROSION CONTROL SUMMARY TABLE

LOCATION					PAVEMENT SIDE DITCH							RIPRAP			SODDING					
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8 FT EQUIVAL. LENGTH EACH)	TOTAL EQUIVALENT PAY LENGTHS TYPE					RIPRAP, REVETMENT	RIPRAP, CLASS 1	GEOTEXTILES FOR RIPRAP TYPE 1A	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	WATER
					LFT	EACH	LFT	LFT	LFT	LFT	LFT	TONS	TONS	SYS	SYS	SYS	SYS	SYS	SYS	SYS	KGAL
SW Turnout		X										29		51					18	18	0.5
NW Turnout		X										38		69					24	24	0.5
Bent No.1 (NBL)			X										182	189							
Bent No.4 (NBL)			X										182	189							
Pier No.2 (NBL)			X										66								
Pier No.2 (SBL)			X										66								
Pier No.3 (NBL)			X										50								
Pier No.3 (SBL)			X										50								
Bent No.1 (SBL)			X										182	189							
Bent No.4 (SBL)			X										182	189							
TOTALS												67	960	876					42	42	1.0

GUARDRAIL SUMMARY TABLE

LOCATION					MGS W-BEAM GUARDRAIL LENGTH												CURVED W-BEAM GUARDRAIL SYSTEM								REMARKS
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	STANDARD POST AT 6 FT. 3 IN. SPA.	STANDARD POST AT 3 FT. 1.5 IN. SPA.	DOUBLE FACED AT 6 FT. 3 IN. SPA.	DOUBLE FACED AT 3 FT. 1.5 IN. SPA.	SHOP CURVED AT ____ FT. SPA.	MGS GUARDRAIL LONG SPAN, TYPE 1	MGS GUARDRAIL LONG SPAN, TYPE 2	GUARDRAIL FLARE RATE	MGS GUARDRAIL TRANSITION WITH CURB	MGS GUARDRAIL TRANSITION WITHOUT CURB	MGS CABLE TERMINAL ANCHOR	GUARDRAIL END TREATMENT TYPE OS		TERMINAL SYSTEM		CONNECTOR SYSTEM		GUARDRAIL REMOVE	GUARDRAIL RESET	IMPACT ATTENUATOR TYPE ____	IMPACT ATTENUATOR TYPE ____	
																		TYPE	EACH	TYPE	EACH	LFT	LFT	EACH	EACH	
					LFT	LFT	LFT	LFT	LFT	EACH	EACH		EACH	EACH	EACH	EACH											
TOTALS																										

REVISIONS

DATE	ITEM

FOR INFORMATION ONLY
Project scope, including project limits and identified work within, will change based on what the Design-Build Contractor can provide for the fixed-price identified in the RFP documents.

DESIGNED: LLS | DRAWN: LLB
CHECKED: APL | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

ROAD SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-016-04220 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600744 (NB) & 1600750 (SB)
DRAWING NO.	SHEETS
	71 of 71
CONTRACT	PROJECT
R-41529	1700135

NOT FOR CONSTRUCTION