PROJECT	DESIGNATION
1700135	1600729 (NB) & 1600733 (SB)
CONTRACT	BRIDGE FILE
R-41529	I65-017-04222 ENBL & ESBL

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-017-04222 ENBL & ESBL	TWIN COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGES	3 SPANS: 45'-0", 45'-0", 45'-0" SKEW: 0°	CANEY FORK	℄ STRUCTURE STA.449+87.50 "PR-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	I65 Roadway Reconstruction (Lead)
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
2001607	Bridge Rehabilitation for Structure I65-028-04232 A

PART 5 OF 15

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

FOR SPANS OVER 20 FEET

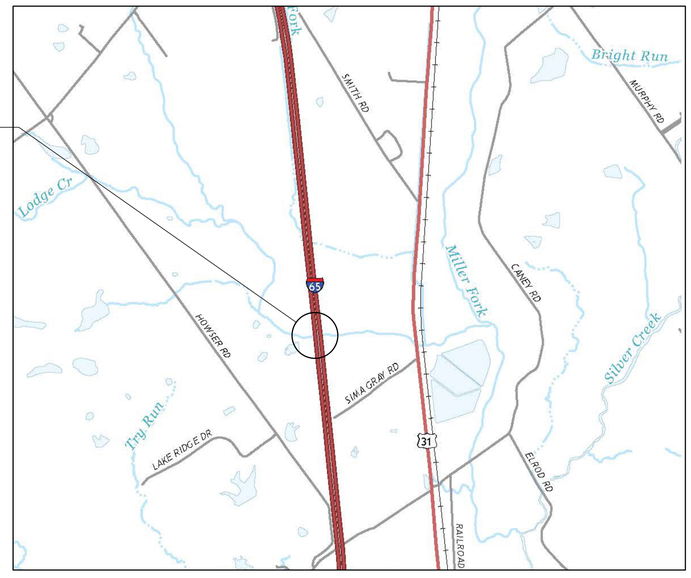
ROUTE: I-65 AT: RP 17+44

PROJECT NO. 1700135 P.E.
R/W
1700135 CONST.

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

Bridge Rehabilitation on I-65 over Caney Fork
Located 1.81 Miles South of SR 160 in
Military Land, Grant No.238, Monroe Township, Clark County, Indiana

PROJECT LOCATION
Begin Project-Sta.391+00.00 "PR-Q"
End Project-Sta.679+00.00 "Q"
End Project-Sta.679+00.69 "PR-Q"



LOCATION MAP
SCALE: 1:24000

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

PROJECT LOCATION SHOWN BY
CLARK COUNTY

LATITUDE: 38°30'51.77" N LONGITUDE: 85°46'20.28" W

BRIDGE LENGTH: 0.026 MI.
ROADWAY LENGTH: 12.5 MI.
TOTAL LENGTH: 12.8 MI.
MAX. GRADE: 2.92 %

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

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

PLANS PREPARED BY: BEAM, LONGEST & NEFF, LLC (317)849-5832 PHONE NUMBER

CERTIFIED BY: _____ DATE

APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
I65-017-04222 ENBL & ESBL	
DESIGNATION	
1600729 (NB) & 1600733 (SB)	
DRAWING NO.	SHEETS
	1 of 28
CONTRACT	PROJECT
R-41529	1700135

UTILITIES

CLARK COUNTY REMC
7810 Hwy. 60, P.O. Box L
Sellersburg, IN 47172
Attn: Larry Edwards
Ph: 812-248-7504
Email: ledwards@theremc.net

JACKSON COUNTY REMC & FIBER
274 E. Base Rd.
Brownstown, IN 47220
Attn: Lance Adams
Ph: 812-358-4458
Email: Ladams@jacksonremc.com

ZAYO BANDWIDTH COMMUNICATIONS
9206 Castlegate Dr.
Indianapolis, IN 46256
Attn: Waylon Higgins
Ph: 765-341-1199
Email: waylon.higgins@zayo.com

CHARTER/ INSIGHT
10168 Linn Rs Suite 120
Louisville, KY 40223
Attn: Kevin Mercer
Ph: 502-410-7192
Email: kevin.mercer@charter.com

MCI - VERIZON
720 West Henry St.
Indianapolis, IN 46225
Attn: Ron Kocienski
Ph: 518-424-3950
Email: ronald.kocienski@verizon.com

DUKE ENERGY
100 S. Mill Creek Rd.
Noblesville, IN 46062
Attn: Cindy Rowland
Ph: 317-776-5341
Email: cindy.rowland@duke-energy.com

MIDWEST NATURAL GAS
1080 W. Hospital Rd., P.O. Box 450
Paoli, IN 47454
Attn: Phil Ross
Ph: 812-723-2151
Email: phil_r@indiananatural.com

FRONTIER COMMUNICATIONS
24373 Co. Rd. 45
Elkhart, IN 46516
Attn: Robin Branson
Ph: 574-875-3789
Email: robin.n.branson@ftr.com

RURAL MEM. WATER CORP OF CLARK CO
301 S. Ferguson St.
Henryville, IN 47126
Attn: Matt Shields
Ph: 812-294-1481
Email: rmwchv@cwgo.com

HENRYVILLE MEM. SANITATION
104 E. Main St., P.O. Box 62
Henryville, IN 47126
Attn: Doug Dunlevy
Ph: 812-294-1070
Email: HenryvilleSewer@gmail.com

SCOTTSBURG WATER DEPT.
2 E. McClain Ave.
Scottsburg, IN 47102
Attn: Todd Carter
Ph: 812-595-0670
Email: ftcarter33@gmail.com

INTELLIGENT FIBER (IFN)
722 N. High School Rd.
Indianapolis, IN 46214
Attn: Shawn Wright
Ph: 317-777-7119
Email: swright@intelligentfiber.com

STUCKER FORK WATER UTILITY
2260 N. Hwy 31
Austin, IN 47170
Attn: Randy Needler
Ph: 812-794-0650
Email: sfork1@c3bb.com

CALL TWO WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

SHEET NO.	DATE	REVISED

INDEX

SHEET NO.	SHEET DESIGNATION	SUBJECT
1		TITLE SHEET
2		INDEX SHEET
3		TYPICAL CROSS SECTIONS
4 - 5		MAINTENANCE OF TRAFFIC
6 - 7		PLAN & PROFILE - LINE "PR-Q"
8 - 9		SOIL BORING - LINE "PR-Q"
10	C1	LAYOUT - LINE "PR-Q"
11 - 13	C2 - C4	GENERAL PLAN
14 - 17	C5 - C8	BENT NO.1 DETAILS
18 - 20	C9 - C11	PIER NO.2 DETAILS
21 - 23	C12 - C14	PIER NO.3 DETAILS
24 - 27	C15 - C18	BENT NO.4 DETAILS
28		BRIDGE SUMMARY OF QUANTITIES

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

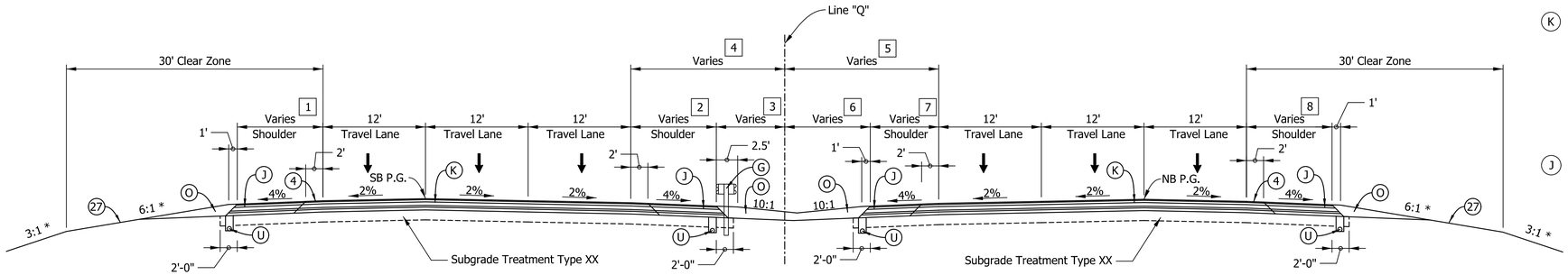
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
	2 of 28
CONTRACT	PROJECT
R-41529	1700135



SB I-65 Typical Transition Section

Sta. 391+10.00 "Q" to Sta. 393+85.00 "Q"
(See SB-I65 Pavement Transition Diagram)

NB I-65 Typical Transition Section

Sta. 391+10.00 "Q" to Sta. 393+85.00 "Q"
(See NB-I65 Pavement Transition Diagram)

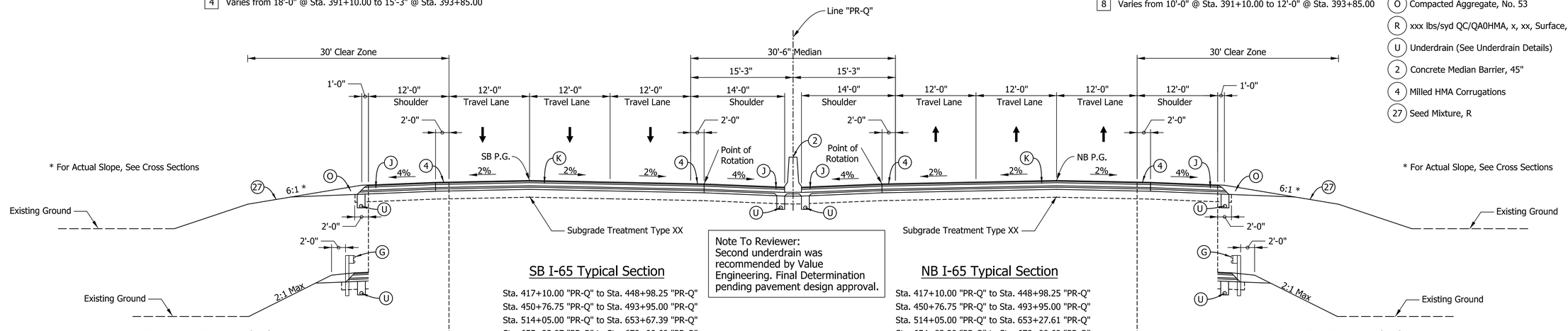
1 Varies from 10'-0" @ Sta. 391+10.00 to 12'-0" @ Sta. 393+85.00
2 Varies from 10'-0" @ Sta. 391+10.00 to 14'-0" @ Sta. 393+85.00
3 Varies from 8'-0" @ Sta. 391+10.00 to 1'-3" @ Sta. 393+85.00
4 Varies from 18'-0" @ Sta. 391+10.00 to 15'-3" @ Sta. 393+85.00
5 Varies from 18'-0" @ Sta. 391+10.00 to 15'-3" @ Sta. 393+85.00
6 Varies from 10'-0" @ Sta. 391+10.00 to 1'-3" @ Sta. 393+85.00
7 Varies from 8'-0" @ Sta. 391+10.00 to 14'-0" @ Sta. 393+85.00
8 Varies from 10'-0" @ Sta. 391+10.00 to 12'-0" @ Sta. 393+85.00

LEGEND

K I-65 (Travel Lanes, Aux. Lanes, Gore Areas)
Full-Depth HMA Pavement consisting of
xxx lbs/syd QC/QA-HMA, x, xx, Surface x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
X" Compacted Aggregate, No. 53, Separation Layer, on
Geotextile for Pavement, Type XX on
Subgrade Treatment, Type XX

J I-65 (Shoulders)
Full-Depth HMA Pavement consisting of
xxx lbs/syd QC/QA-HMA, x, xx, Surface x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
X" Compacted Aggregate, No. 53, Separation Layer, on
Geotextile for Pavement, Type XX on
Subgrade Treatment, Type XX

G MGS W-Beam Guardrail
M Milling, Asphalt, X.X"
O Compacted Aggregate, No. 53
R xxx lbs/syd QC/QA0HMA, x, xx, Surface, x.x mm
U Underdrain (See Underdrain Details)
2 Concrete Median Barrier, 45"
4 Milled HMA Corrugations
27 Seed Mixture, R



SB I-65 MGS Guardrail Section

See Guardrail Summary Table for Stations

NB I-65 MGS Guardrail Section

See Guardrail Summary Table for Stations

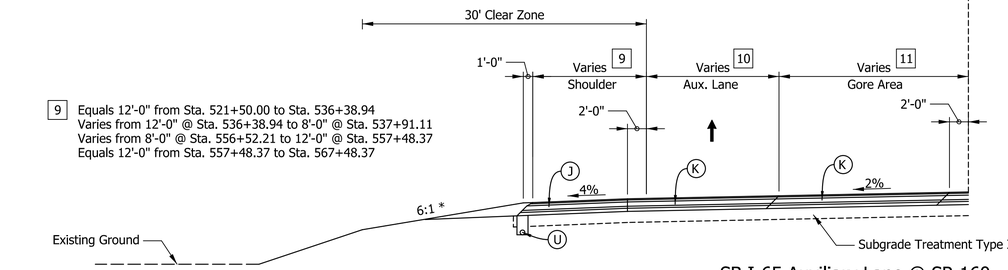
SB I-65 Typical Section

Sta. 417+10.00 "PR-Q" to Sta. 448+98.25 "PR-Q"
Sta. 450+76.75 "PR-Q" to Sta. 493+95.00 "PR-Q"
Sta. 514+05.00 "PR-Q" to Sta. 653+67.39 "PR-Q"
Sta. 655+23.07 "PR-Q" to Sta. 679+00.69 "PR-Q"

Note To Reviewer:
Second underdrain was recommended by Value Engineering. Final Determination pending pavement design approval.

NB I-65 Typical Section

Sta. 417+10.00 "PR-Q" to Sta. 448+98.25 "PR-Q"
Sta. 450+76.75 "PR-Q" to Sta. 493+95.00 "PR-Q"
Sta. 514+05.00 "PR-Q" to Sta. 653+27.61 "PR-Q"
Sta. 654+83.29 "PR-Q" to Sta. 679+00.69 "PR-Q"



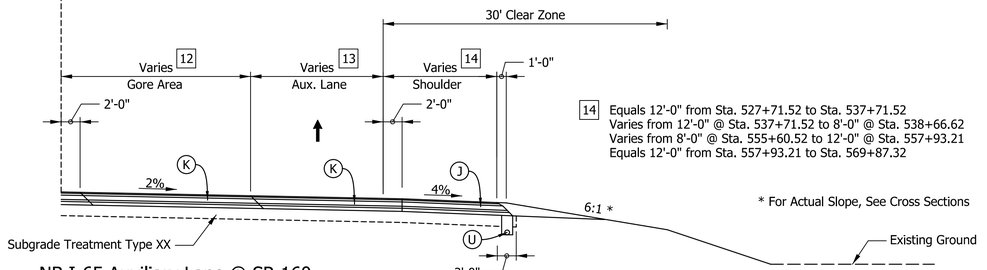
9 Equals 12'-0" from Sta. 521+50.00 to Sta. 536+38.94
Varies from 12'-0" @ Sta. 536+38.94 to 8'-0" @ Sta. 537+91.11
Varies from 8'-0" @ Sta. 556+52.21 to 12'-0" @ Sta. 557+48.37
Equals 12'-0" from Sta. 557+48.37 to Sta. 567+48.37

SB I-65 Auxiliary Lane @ SR 160

Sta. 521+50.00 "PR-Q" to Sta. 537+96.05 "PR-Q"
Sta. 556+48.37 "PR-Q" to Sta. 567+48.37 "PR-Q"

10 Varies from 0'-0" @ Sta. 521+50.00 to 12'-0" @ Sta. 527+50.00
Equals 12'-0" from Sta. 527+50.00 to Sta. 531+96.05
Varies from 12'-0" @ Sta. 531+96.05 to 16'-0" @ Sta. 535+73.46
Equals 16'-0" from Sta. 535+73.46 to Sta. 537+96.05
Equals 16'-0" @ Sta. 556+48.37 to Sta. 559+13.52
Varies from 16'-0" @ Sta. 559+13.52 to 12'-0" @ Sta. 560+37.17
Equals from 12'-0" @ Sta. 560+37.17 to Sta. 564+48.37
Varies from 12'-0" @ Sta. 564+48.37 to 0'-0" @ Sta. 567+48.37

11 Varies from 0'-0" @ Sta. 535+73.46 to 23'-4" @ Sta. 537+96.05
Varies from 33'-10" @ Sta. 556+48.37 to 0'-0" @ Sta. 559+13.00



NB I-65 Auxiliary Lane @ SR 160

Sta. 527+71.52 "PR-Q" to Sta. 538+71.52 "PR-Q"
Sta. 555+56.92 "PR-Q" to Sta. 569+87.32 "PR-Q"

14 Equals 12'-0" from Sta. 527+71.52 to Sta. 537+71.52
Varies from 12'-0" @ Sta. 537+71.52 to 8'-0" @ Sta. 538+66.62
Varies from 8'-0" @ Sta. 555+60.52 to 12'-0" @ Sta. 557+93.21
Equals 12'-0" from Sta. 557+93.21 to Sta. 569+87.32

12 Varies from 0'-0" @ Sta. 536+11.07 to 35'-3" @ Sta. 538+70.70
Varies from 24'-9" @ Sta. 555+56.92 to 0'-0" @ Sta. 558+87.32

13 Varies from 0'-0" @ Sta. 527+71.52 to 12'-0" @ Sta. 530+71.52
Equals 12'-0" from Sta. 530+71.52 to Sta. 534+88.08
Varies from 12'-0" @ Sta. 534+88.08 to 16'-0" @ Sta. 536+11.07
Equals 16'-0" from Sta. 536+11.07 to Sta. 538+71.52
Equals 16'-0" @ Sta. 555+56.92 to Sta. 558+87.32
Varies from 16'-0" @ Sta. 558+87.32 to 12'-0" @ Sta. 561+87.32
Equals from 12'-0" @ Sta. 561+87.32 to Sta. 563+87.32
Varies from 12'-0" @ Sta. 563+87.32 to 0'-0" @ Sta. 569+87.32

FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

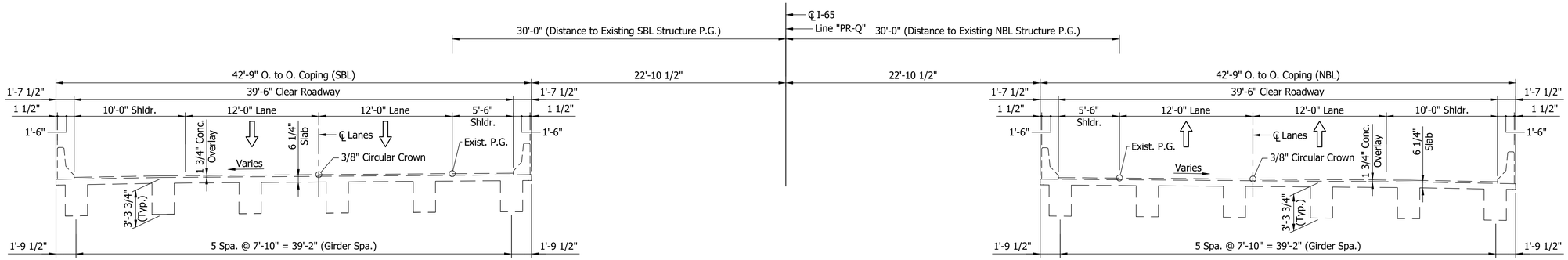
DESIGNED: AMD DRAWN: VK
CHECKED: DJG CHECKED: DJG

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

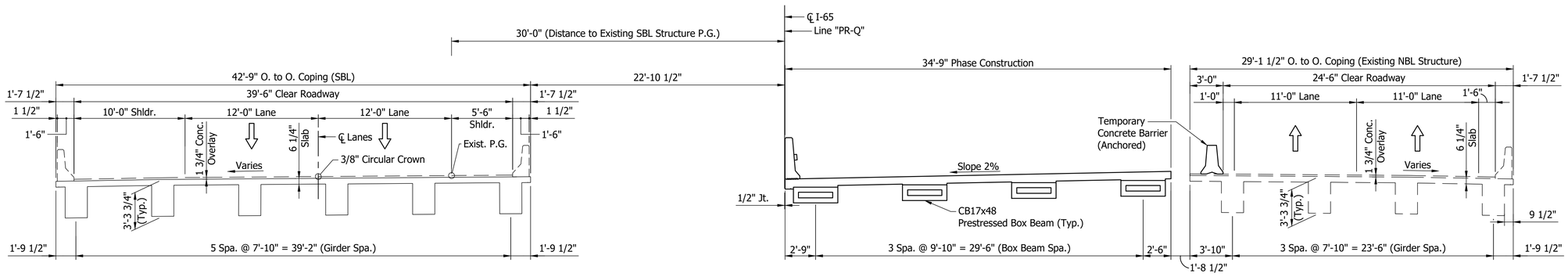
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1700135

SURVEY BOOK	SHEETS
Electronic	3 of 28
CONTRACT	PROJECT
R-41529	1700135



TYPICAL SECTION - EXISTING

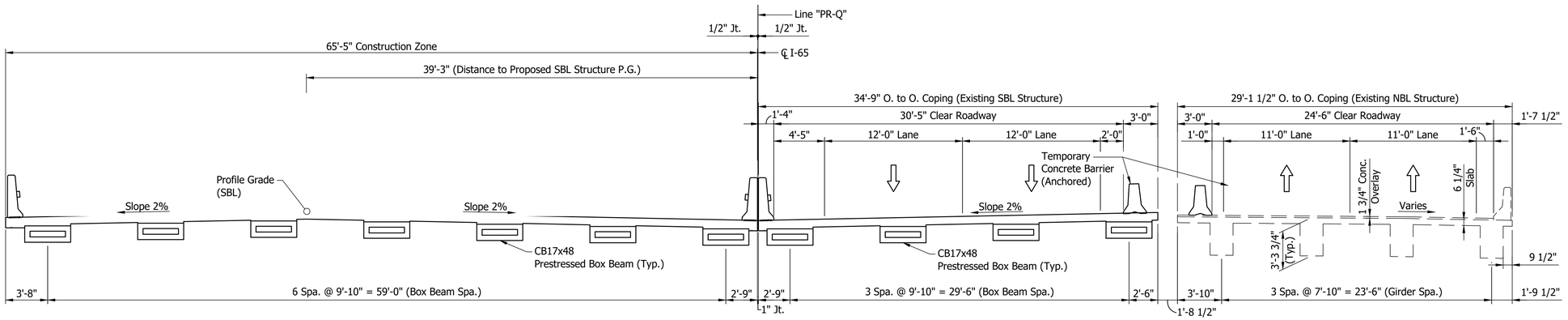
Scale: 3/16" = 1'-0"



PHASED CONSTRUCTION - PHASE I

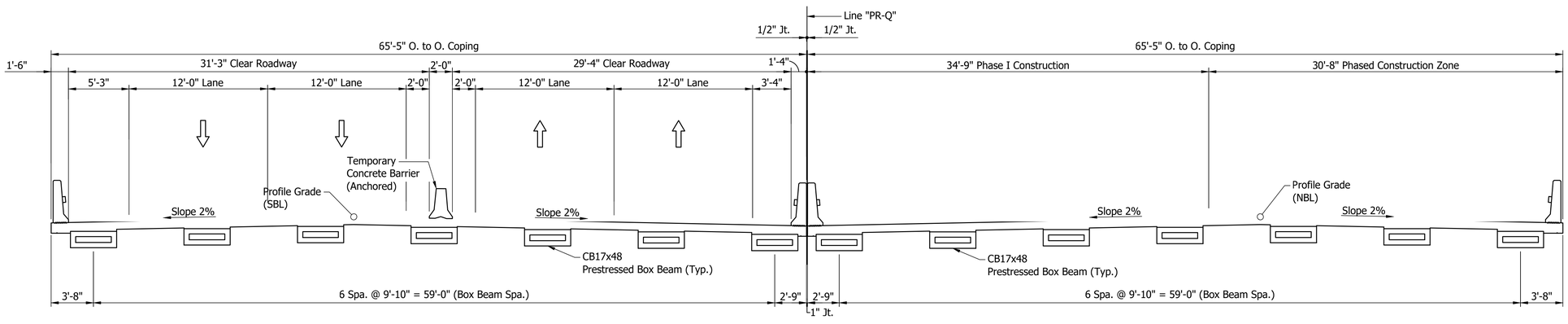
Scale: 3/16" = 1'-0"

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: AS NOTED; VERTICAL SCALE: AS NOTED; BRIDGE FILE: I65-017-04222 ENBL & ESBL; DESIGNATION: 1600729 (NB) & 1600733 (SB)
DESIGNED: APL; DRAWN: NW; CHECKED: RTW; CHECKED: APL		MAINTENANCE OF TRAFFIC	DRAWING NO.; SHEETS: 4 of 28; CONTRACT: R-41529; PROJECT: 1700135



PHASED CONSTRUCTION - PHASE II

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



PHASED CONSTRUCTION - PHASE III

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: AS NOTED; VERTICAL SCALE: AS NOTED; BRIDGE FILE: I65-017-04222 ENBL & ESBL; DESIGNATION: 1600729 (NB) & 1600733 (SB)
DESIGNED: APL	DRAWN: NW	MAINTENANCE OF TRAFFIC	DRAWING NO.; SHEETS: 5 of 28; CONTRACT: R-41529; PROJECT: 1700135
CHECKED: RTW	CHECKED: APL		

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

845	Northing: 250776.5515 Easting: 738038.7052
AZ 161° 7.55' End of Fence; AZ 160° 7.85' Corner of Conc. Handrail; AZ 76° 45.71' End of Fence; SB I-65	
LINE "Q" STA. 449+13.14 OFFSET 64.86 LT	

844	Northing: 251262.5381 Easting: 737994.8191
Mag Nail; AZ 347° 14.56'; AZ 196° 7.47' Guardrail Post; AZ 131° 77.06' End of Guardrail; SB I-65	
LINE "Q" STA. 454+01.06 OFFSET 58.59 LT	

843	Northing: 251745.5121 Easting: 737943.0768
Mag Nail; AZ 354° 15.39'; Mile Post 17.5; AZ 176° 96.29'; AZ 88° 77.95' Guardrail Post; SB I-65	
LINE "Q" STA. 458+86.79 OFFSET 60.45 LT	

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AMD	DRAWN: JJP	
CHECKED: DJG	CHECKED: DJG	

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN
STA. 444+50.00 TO STA. 459+50.00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
N.A.	1700135
SURVEY BOOK	SHEETS
Electronic	6 of 28
CONTRACT	PROJECT
R-41529	1700135

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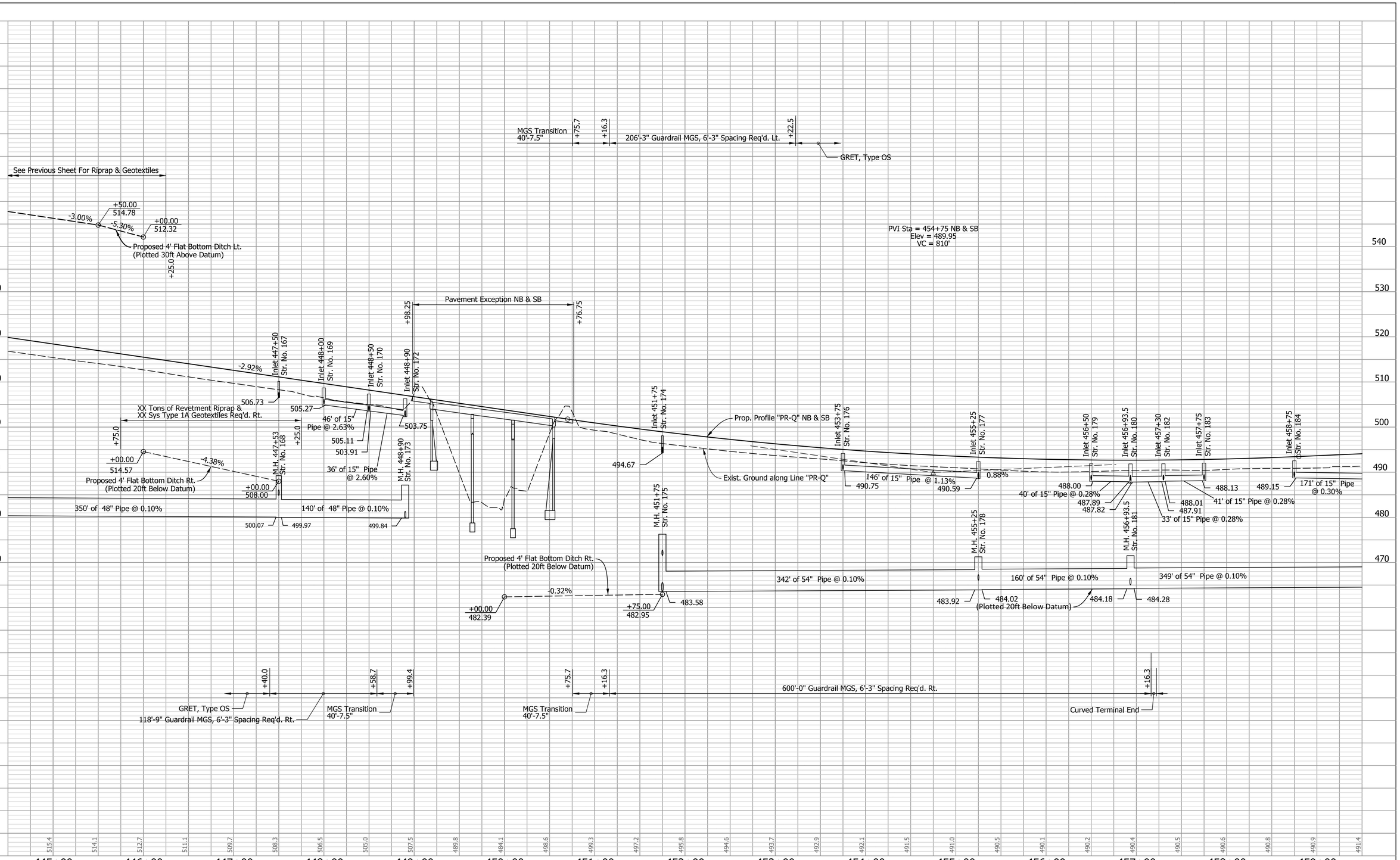


FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: 1" = 50' / BRIDGE FILE: N/A
DESIGNED: AMD / DRAWN: JJP	PROFILE STA. 444+50.00 TO STA. 459+50.00	VERTICAL SCALE: 1" = 10' / DESIGNATION: 1700135
CHECKED: DJG / CHECKED: DJG		SURVEY BOOK: Electronic / SHEETS: 7 of 28
		CONTRACT: R-41529 / PROJECT: 1700135

BORING NO. TB-1

LOG OF TEST BORING

BORING NO.: TB-1
SHEET 1 OF 1

CLIENT : American Structurepoint, Inc.
DES NO. : 1600729 & 1600733 STRUCTURE # : I65-017-04222 ENBL & ESBL
PROJECT TYPE : Twin Bridge Rehabilitation and Widening
LOCATION : I-65 over Caney Fork
COUNTY : Clark and Scott PROJECT NO.: CJ195480

LATITUDE : 38.51418
LONGITUDE : 38.51418
DATUM : -85.772276
DATE STARTED : 07-14-21
DATE COMPLETED : 07-14-21

ELEVATION : 506.0
STATION : 449+12
OFFSET : 1.0 ft Left
LINE : "PR-Q"
DEPTH : 25.0 ft

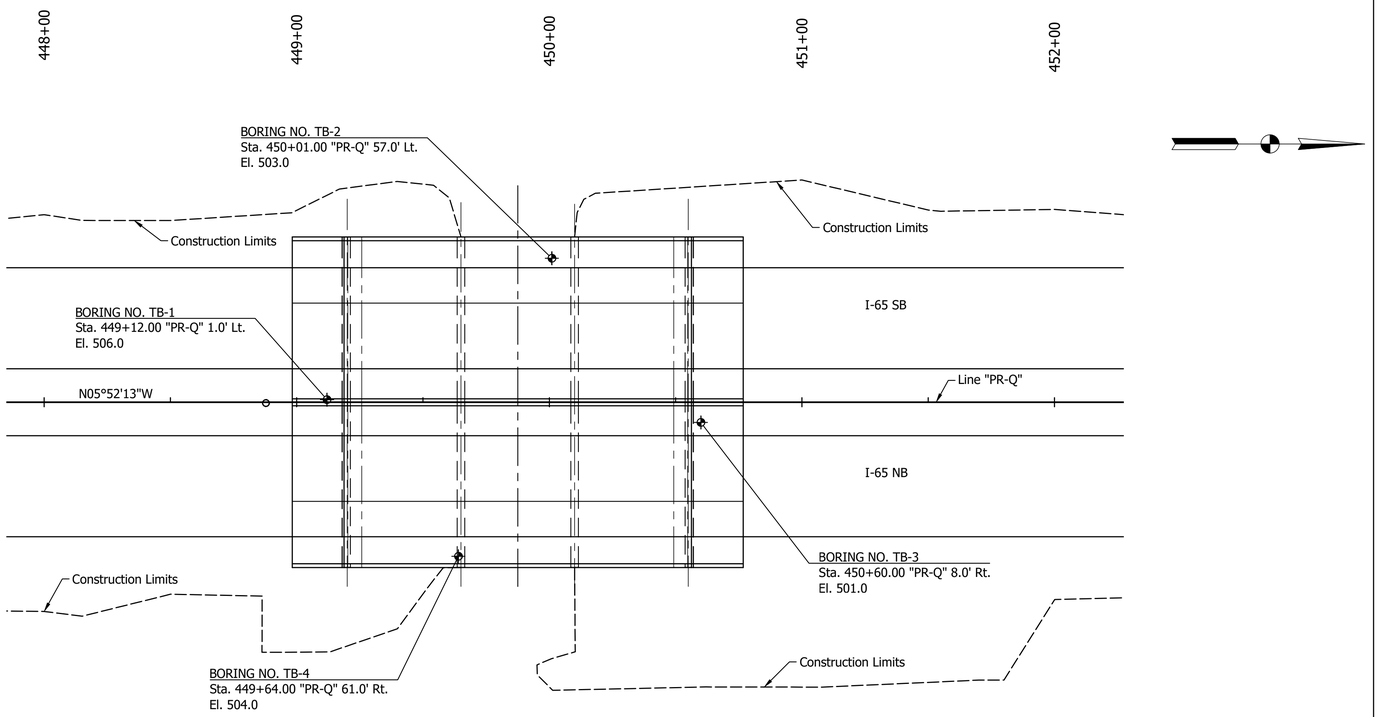
BORING METHOD : Hollow Stem Auger
RIG TYPE : CME 750 ATV
CASING DIA. : ---
CORE SIZE : ---

HAMMER : Auto
DRILLER/INSP : B.N.
TEMPERATURE : 84 °F
WEATHER : Cloudy

GROUNDWATER: ▽ Encountered at NW ▽ At completion 3.0 ft ▽ 4.0 ft After 24 hr ⊠ Caved in at 11.0 ft

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	% RECOVERY	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	ATTERBERG LIMITS LL	PL	PI	REMARKS
505.0		Topsoil 0.5											
	2.5		SS 1	1-2-3	67	22.3 26.8		2.75 1.25					
	5.0		SS 2	3-3-3	67	22.2 18.5	115.0	3.5 2.75					
500.0		Clay, soft to very stiff, moist, brown, A-4(5), Lab No. 31800											
	7.5		SS 3	5-6-9	89	18.7		2.75		33	26	7	7.0, pH = 6.8, SG = 2.77, soluble sulfate = 130 ppm
	10.0		SS 4	7-9-11	89	16.3 16.8	117.3	>4.5	5.15				
495.0		11.0											
	12.5	Clay, stiff to very stiff, moist, brown and gray, A-4(9), Lab No. 31801	SS 5	5-7-9	89	20.6 23.2	106.2	3.25	2.45				
	14.5		SS 6	6-6-7	89	20.8		3.0		39	29	10	14.5, pH = 6.5, SG = 2.77
490.0	15.0	Weathered Shale, soft, gray, no recovery below 15 ft 16.5											15.0, water introduced for rock coring
	17.5		RC 1 ROD= 52%		70								
	20.0	Shale, moderately hard, soft near 18.5 ft, gray, low bedding planes							215				
485.0	22.5		RC 2 ROD= 97%		100				544				
	25.0	25.0											
480.0		Bottom of Boring at 25.0 ft											
	27.5												
	30.0												

I:\BORING LOG (MOST FORMAT) LAT_LONG_CJ195480_BES 1600729 & 1600733.GPJ IN_0011.GDT 3/16/22



BORING PLAN
Scale: 1" = 30'

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	N/A	N/A	HP 12x74 50 ksi
Factored Design Load Q_F (Kips)	xxx	N/A	N/A	xxx
Factored Design Soil Resistance $R_{R\ max}$ (Kips)	xxx	N/A	N/A	xxx
Resistance Factor Φ_{dyn}	x.xx	N/A	N/A	x.xx
Downdrag Load, DD (Kips)*	0	N/A	N/A	0
Nominal Soil Resistance $R_{n\ max}$ (Kips)	xxx	N/A	N/A	xxx
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)	xxx	N/A	N/A	xxx
Nominal Driving Resistance, R_{ndr} (Kips)	xxx	N/A	N/A	xxx
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.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: MEN
CHECKED: RTW CHECKED: APL

INDIANA DEPARTMENT OF TRANSPORTATION

SOIL BORING
LINE "PR-Q"

HORIZONTAL SCALE	BRIDGE FILE
1"=30'	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1"=30'	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
	8 of 28
CONTRACT	PROJECT
R-41529	1700135

BORING NO. TB-2

LOG OF TEST BORING

BORING NO.: TB-2
SHEET 1 OF 1

CLIENT : American Structurepoint, Inc.
DES NO. : 1600729 & 1600733 STRUCTURE # : I65-017-04222 ENBL & ESBL
PROJECT TYPE : Twin Bridge Rehabilitation and Widening
LOCATION : I-65 over Caney Fork
COUNTY : Clark and Scott PROJECT NO.: CJ195480

LATITUDE : 38.51440
LONGITUDE : 38.51440
DATUM : -85.772504
DATE STARTED : 07-07-21
DATE COMPLETED : 07-07-21

ELEVATION : 503.0
STATION : 450+01
OFFSET : 57.0 ft Left
LINE : "PR-Q"
DEPTH : 56.0 ft

BORING METHOD : Hollow Stem Auger
RIG TYPE : CME 55 Truck
CASING DIA. : ---
CORE SIZE : ---

HAMMER : Auto
DRILLER/INSP : D.C.
TEMPERATURE : 70 °F
WEATHER : Cloudy

GROUNDWATER: ▽ Encountered at 18.0 ft ▽ At completion NW

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	ATTERBERG LIMITS LL	PL	PI	REMARKS
500.0	0.6	Portland Cement Concrete, (Bridge Deck)											
	2.5												
495.0	5.0												
	7.5	Cored through bridge deck and extended casing to ground surface below bridge deck near 19 ft											
490.0	10.0												
	12.5												
485.0	15.0												
	17.5												
	19.0		SS 1	2-2-3	67	15.1		0.75 0.5		38	20	18	20.0, pH = 7.3, SG = 77, soluble sulfate = 300 ppm
480.0	20.0	Loam, soft to hard below 21 ft, moist, gray, with weathered shale fragments below 20 ft, with clay loam seam near 24 ft, A-6(8), Lab No. 31802	SS 2	50/5	83	9.2							
	22.5		SS 3	50/4	83	21.0							
	25.0												
	26.0												26.0, water introduced for rock coring
475.0	27.5	Shale, moderately hard, gray to light gray, low bedding planes, with limestone partings, with silty bands	RC 1 RQD= 65%		97				315				
470.0	30.0												
	32.5		RC 2 RQD= 100%		100				228				
465.0	35.0												
	37.5		RC 3 RQD= 85%		95				145				
	40.0												
460.0	42.5	Shale, moderately hard, gray to light gray, low bedding planes, with limestone partings, with silty bands	RC 4 RQD= 88%		97				200				
455.0	45.0								368				
	47.5		RC 5 RQD= 97%		98								
450.0	50.0												
	52.5		RC 6 RQD= 93%		100				204				
445.0	56.0	Bottom of Boring at 56.0 ft Auger refusal at 26 ft											
440.0	60.0												
	62.5												
	65.0												

ED BORING LOG (NDOT (DRAFT) LAT/LONG, CJ195480 DES 1600729 & 1600733.GPJ IN_NDOT.GDT 3/14/22

BORING NO. TB-3

LOG OF TEST BORING

BORING NO.: TB-3
SHEET 1 OF 1

CLIENT : American Structurepoint, Inc.
DES NO. : 1600729 & 1600733 STRUCTURE # : I65-017-04222 ENBL & ESBL
PROJECT TYPE : Twin Bridge Rehabilitation and Widening
LOCATION : I-65 over Caney Fork
COUNTY : Clark and Scott PROJECT NO.: CJ195480

LATITUDE : 38.51458
LONGITUDE : 38.51458
DATUM : -85.772299
DATE STARTED : 07-14-21
DATE COMPLETED : 07-14-21

ELEVATION : 501.0
STATION : 450+60
OFFSET : 8.0 ft Right
LINE : "PR-Q"
DEPTH : 30.0 ft

BORING METHOD : Hollow Stem Auger
RIG TYPE : CME 750 ATV
CASING DIA. : ---
CORE SIZE : ---

HAMMER : Auto
DRILLER/INSP : B.N.
TEMPERATURE : 84 °F
WEATHER : Cloudy

GROUNDWATER: ▽ Encountered at NW ▽ At completion NW

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	ATTERBERG LIMITS LL	PL	PI	REMARKS
500.0	0.5	Topsoil	SS 1	3-3-5	89	45.1 35.8 28.1		0.75 2.25					2.0, LOI = 4 percent
	5	Clay, medium stiff to stiff, moist, brown, with organic matter near 2 ft, with clay loam seams near 4 ft and 6 ft, A-4, Lab No. 31800	SS 2	4-6-8	89	18.6 17.7		>4.5 3.5					
495.0			SS 3	5-6-9	89	23.7 20.7	112.1	3.5					
	10		SS 4	6-5-8	89	25.1 19.9		3.25					
490.0	11.0	Clay, stiff, moist, brown, A-4, Lab No. 31801	SS 5	6-6-7	89	16.8 18.4	115.0	4.0					
	13.5												
	15	Loam, very stiff, moist, gray, A-6, Lab No. 31802	SS 6	6-9-11	89	19.7 23.8	109.5	3.0					
485.0	16.0												
		Sand and Gravel, loose, moist, brown, with weathered shale fragments, (visual)	SS 7	2-3-3	50								
	18.5												
	20	Weathered Shale, soft, gray, bituminous near 19 ft, no recovery below 20 ft	SS 8	5-7-50/2	71	26.3 57.1 50.9							19.0, LOI = 4 percent 20.0, water introduced for rock coring
480.0	22.0		RC 1 RQD= 40%			60			182				
	25	Shale, moderately hard, soft near 23 ft, gray to light gray, low bedding planes, with limestone partings, with silty bands							184				
475.0	30.0		RC 2 RQD= 78%			100			257				
		Bottom of Boring at 30.0 ft Auger refusal at 20 ft											
470.0	35												
465.0	40												

ED BORING LOG (NDOT (DRAFT) LAT/LONG, CJ195480 DES 1600729 & 1600733.GPJ IN_NDOT.GDT 3/14/22

BORING NO. TB-4

LOG OF TEST BORING

BORING NO.: TB-4
SHEET 1 OF 1

CLIENT : American Structurepoint, Inc.
DES NO. : 1600729 & 1600733 STRUCTURE # : I65-017-04222 ENBL & ESBL
PROJECT TYPE : Twin Bridge Rehabilitation and Widening
LOCATION : I-65 over Caney Fork
COUNTY : Clark and Scott PROJECT NO.: CJ195480

LATITUDE : 38.51434
LONGITUDE : 38.51434
DATUM : -85.77208
DATE STARTED : 07-08-21
DATE COMPLETED : 07-08-21

ELEVATION : 504.0
STATION : 449+64
OFFSET : 61.0 ft Right
LINE : "PR-Q"
DEPTH : 53.0 ft

BORING METHOD : Hollow Stem Auger
RIG TYPE : CME 55 Truck
CASING DIA. : ---
CORE SIZE : ---

HAMMER : Auto
DRILLER/INSP : D.C.
TEMPERATURE : 70 °F
WEATHER : Cloudy

GROUNDWATER: ▽ Encountered at 15.0 ft ▽ At completion NW

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per 6"	RECOVERY	MOISTURE CONTENT	DRY DENSITY, pcf	POCKET PEN., tsf	UNCONF. COMP., tsf	ATTERBERG LIMITS LL	PL	PI	REMARKS
500.0	0.9	Portland Cement Concrete, (Bridge Deck)											
	5	Cored through bridge deck and extended casing to ground surface below bridge deck near 16 ft											
495.0													
	10												
490.0	15												
	16.0		SS 1	3-4-3	17	18.1							
485.0	19.0	Loam, medium stiff to soft, moist, gray, A-6, Lab No. 31802	SS 2	2-2-2	17	16.5		0.5					
	20	Clay, soft, moist, gray, A-4, Lab No. 31800				21.1							
	21.0		SS 3	50/3	67				398				23.0, water introduced for rock coring
480.0	23.0	Clay, hard, moist, gray, with rock fragments, A-4, Lab No. 31801	RC 1 RQD= 88%		100								
	25												
475.0	30	Shale, moderately hard, gray to light gray, low bedding planes, with limestone partings, with silty bands, with pyrite nodules near 32 ft	RC 2 RQD= 92%		100				26				
									184				
470.0	35		RC 3 RQD= 97%		100				103				
	40		RC 4 RQD= 92%		98								
465.0													
460.0	45		RC 5 RQD= 75%		90				186				
455.0	50		RC 6 RQD= 87%		95				347				
	53.0	Bottom of Boring at 53.0 ft Auger refusal at 23 ft											
450.0	55												
445.0	60												
440.0	65												
435.0	70												
430.0	75												
425.0	80												
420.0													

ED BORING LOG (NDOT (DRAFT) LAT/LONG, CJ195480 DES 1600729 & 1600733.GPJ IN_NDOT.GDT 3/14/22

Note:
For Soil Boring Plan, see Sht.8.

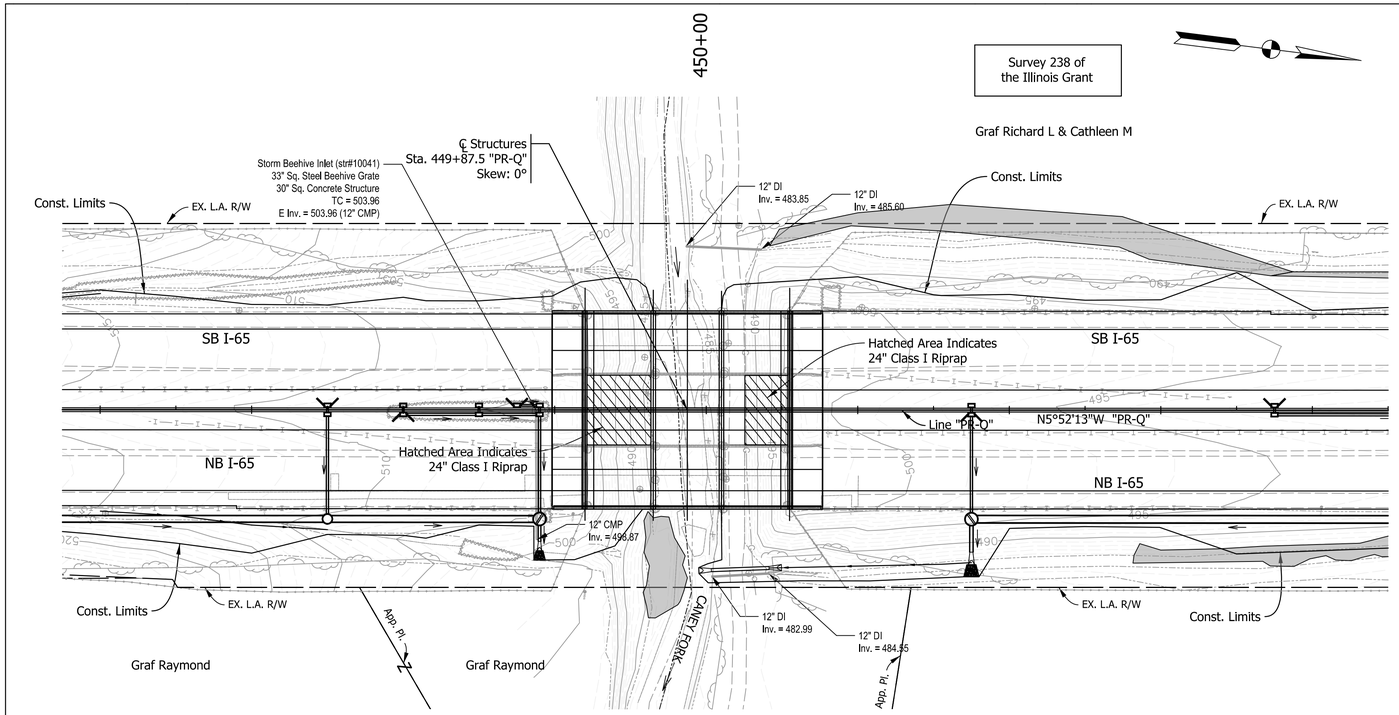
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

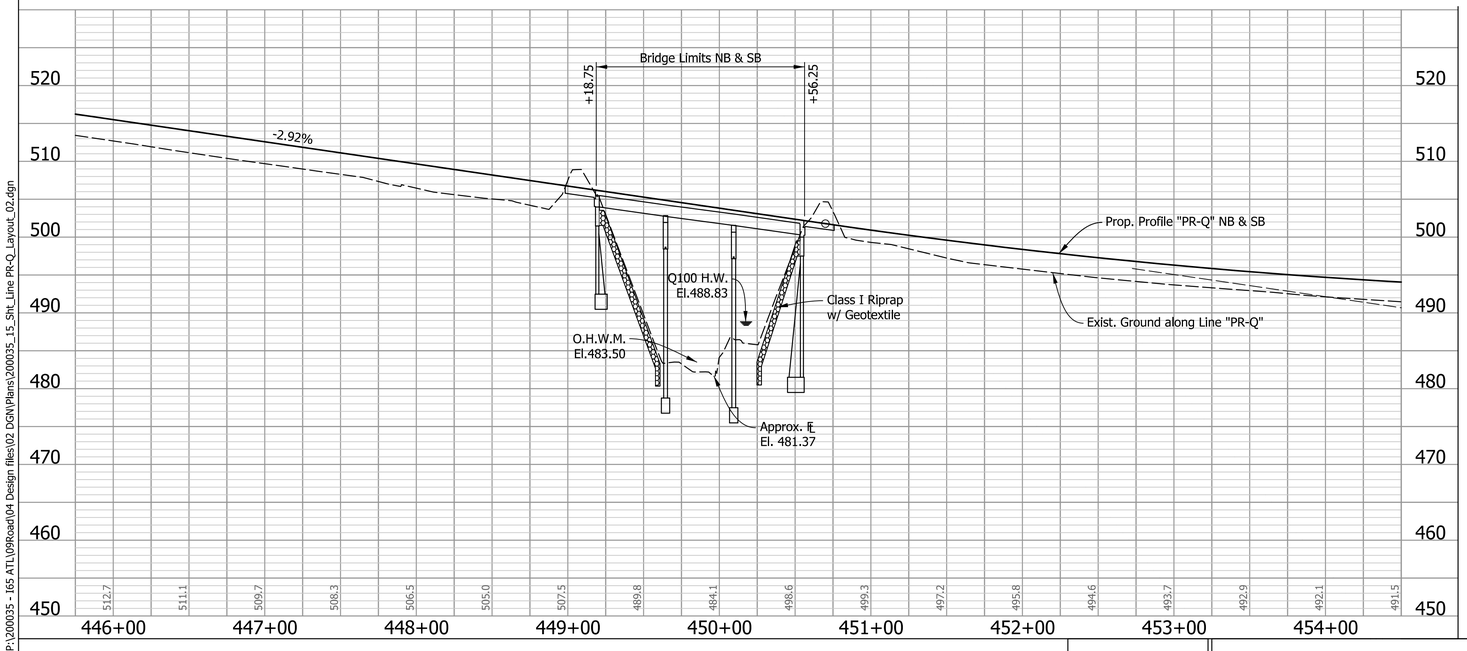
DESIGNED: APL DRAWN: MEN
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORING
LINE "PR-Q"

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
	9 of 28
CONTRACT	PROJECT
R-41529	1700135





EXISTING STRUCTURE

The existing structures (I65-017-04220 DNBL & DSBL) are twin three span concrete girder structures (45'-0", 45'-0", 45'-0") with 39'-6" clear roadway width built circa 1958. (To Be Rehabilitated)

HYDRAULIC SCOUR DATA

DRAINAGE AREA	7.67	sq. mi.
Q100 Discharge	3600	cfs.
Q100 Elevation	488.83	ft.
Q100 Contraction Scour	8.14	ft.
Q100 Total Scour	13.89	ft.
Flowline Elevation	481.37	ft.
Q100 Low Scour Elevation	467.48	ft.
Q100 Max Velocity	11.76	ft/s
Q100 Avg Velocity	9.24	ft/s

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 45'-0", 45'-0", 45'-0"
62'-7" CLEAR ROADWAY SKEW: 0° SQUARE
I-65 OVER CANEY FORK
CLARK COUNTY

Notes:
All Topo described from Line "Q".
Line "PR-Q" to be Constructed.
See Geometric Tie Sheets for Line "Q".
See Plan and Profile Sheets for Reference Points.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: AMD DRAWN: JJP

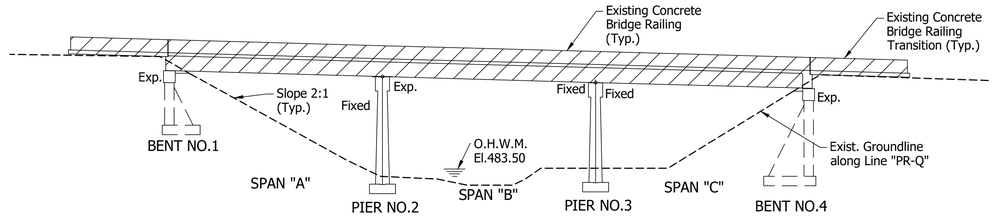
CHECKED: DJG CHECKED: DJG

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
1" = 10'	1600729(NB) & 1600733 (SB)
SURVEY BOOK	SHEETS
C1 of C18	10 of 28
CONTRACT	PROJECT
R-41529	1700135

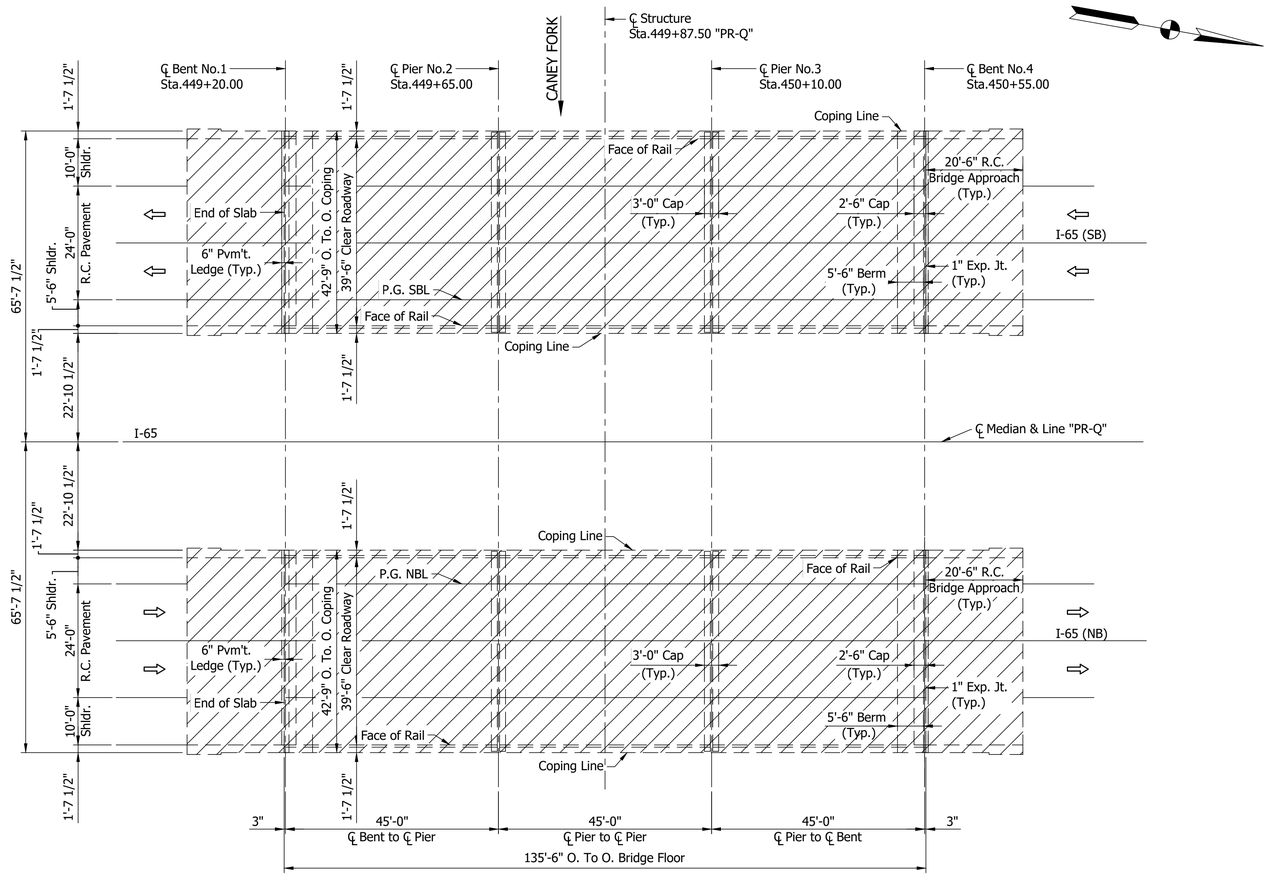
STRUCTURE BUILT ON A -2.84% GRADE



ELEVATION

SBL SHOWN, NBL SIMILAR
Scale: 1/16" = 1'-0"

Note:
Hatch areas indicate portions to be removed.



PLAN

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

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

TWIN REINFORCED CONCRETE BRIDGES
3 SPANS: 45'-0", 45'-0", 45'-0"
39'-6" CLEAR ROADWAY SKEW: 0°
I-65 OVER CANEY FORK
CLARK COUNTY

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW
CHECKED: RTW CHECKED: APL

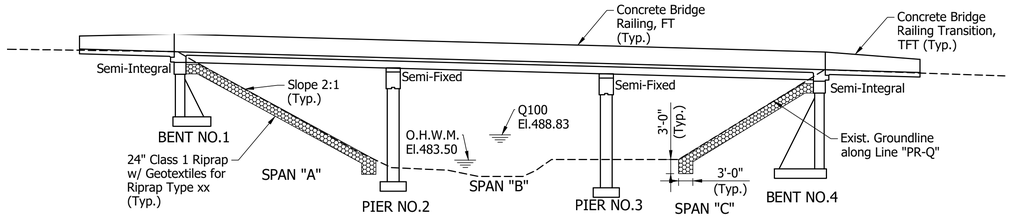
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
EXISTING

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C2 of C18	11 of 28
CONTRACT	PROJECT
R-41529	1700135

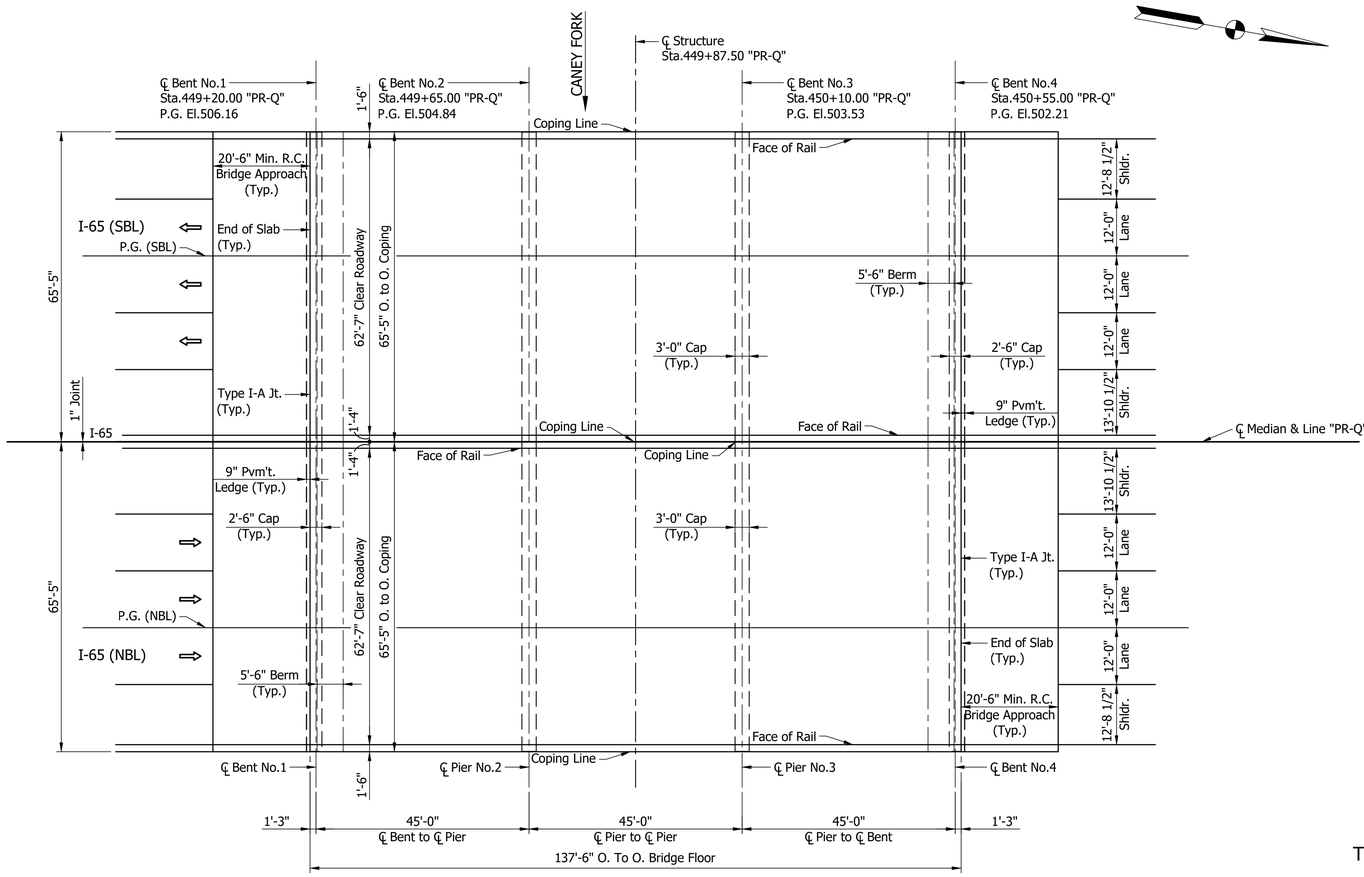
STRUCTURE BUILT ON A -2.92% GRADE



ELEVATION

SBL SHOWN, NBL SIMILAR

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



PLAN

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

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

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 45'-0", 45'-0", 45'-0"
62'-7" CLEAR ROADWAY SKEW: SQUARE
I-65 OVER CANEY FORK
CLARK COUNTY

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

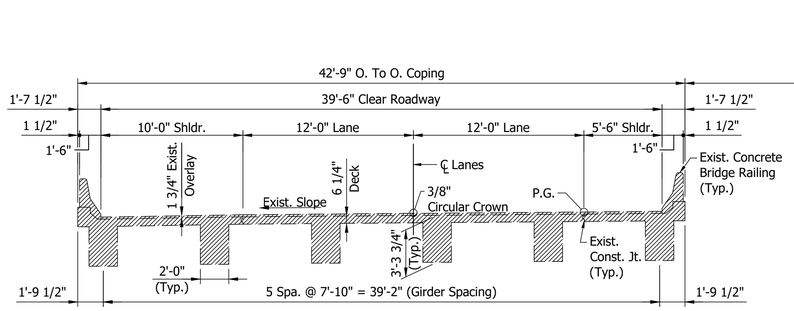
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

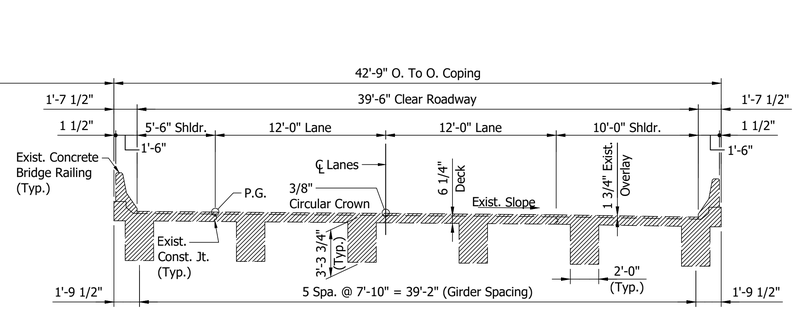
GENERAL PLAN
PROPOSED

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C3 of C18	12 of 28
CONTRACT	PROJECT
R-41529	1700135

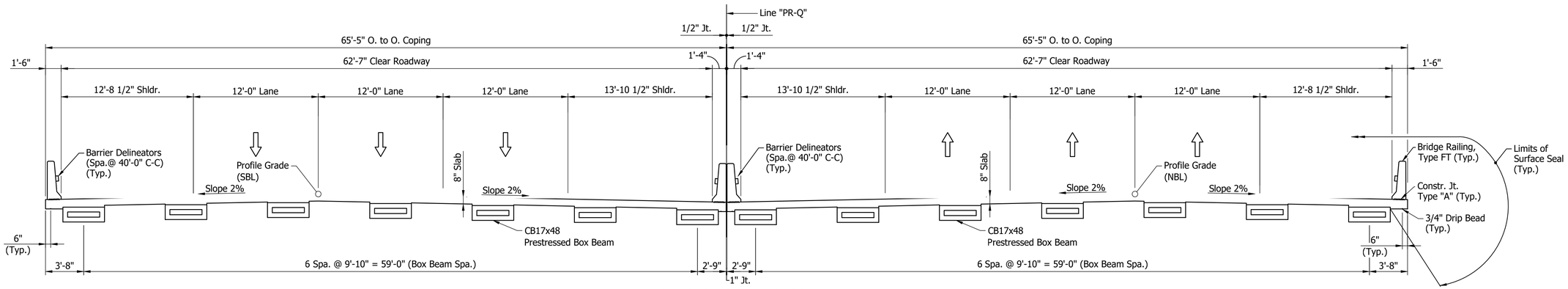


TYPICAL SECTION - EXISTING
(SOUTHBOUND)
Scale: 3/16" = 1'-0"



TYPICAL SECTION - EXISTING
(NORTHBOUND)
Scale: 3/16" = 1'-0"

Note:
Hatch areas 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.

Concrete Patching for interior piers estimates at xx Sft for Pier No.x and xx Sft for all others. Concrete Patching for Bents No.1 and No.4 estimates at xx Sft each. (NBL and SBL same.)

The top of roadway surface from coping line to coping line, all exposed faces of concrete railings, face of deck copings, underside of bridge floor from coping to outside face of exterior beam or girder, all exposed top of piers, surfaces of wingwalls and abutments, and tops of approach slabs to be sealed in accordance with Article 702.21 of Specifications.

(Estimated Quantity = Sft-NBL)
(Estimated Quantity = 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. I65-017-04222 ENBL & ESBL and are available upon request. The existing bridge was constructed under Contract No.4445.

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
S1 =
Site Class
Fv =

DESIGN DATA

LIVE LOAD

Designed for HL-93 loading, in accordance with the 2018 AASHTO LRFD Bridge Design Specifications.

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 2018 AASHTO LRFD Bridge Design Specifications.

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

TWIN CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGES
3 SPANS: 45'-0", 45'-0", 45'-0"
62'-7" CLEAR ROADWAY SKEW: SQUARE
I-65 OVER CANEY FORK
CLARK COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

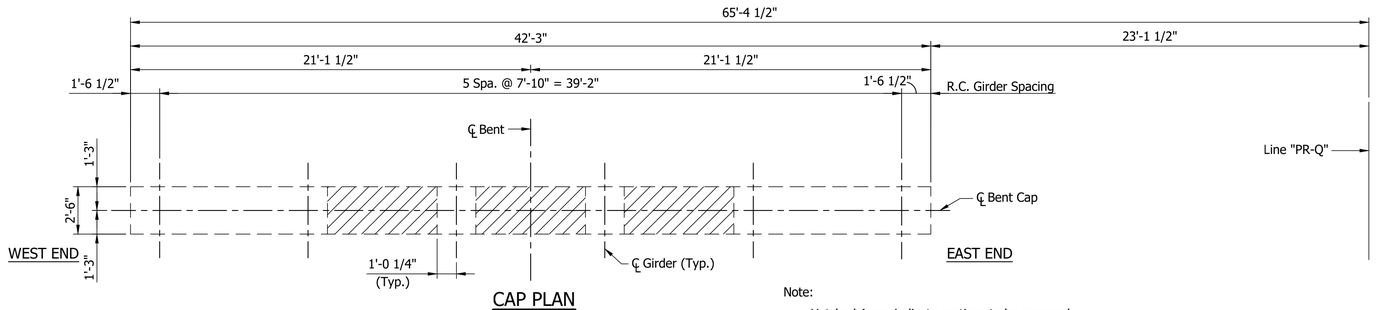
DESIGNED: APL DRAWN: NW
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C4 of C18	13 of 28
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN

NBL SHOWN, SBL SIMILAR BY OPPOSITE HAND

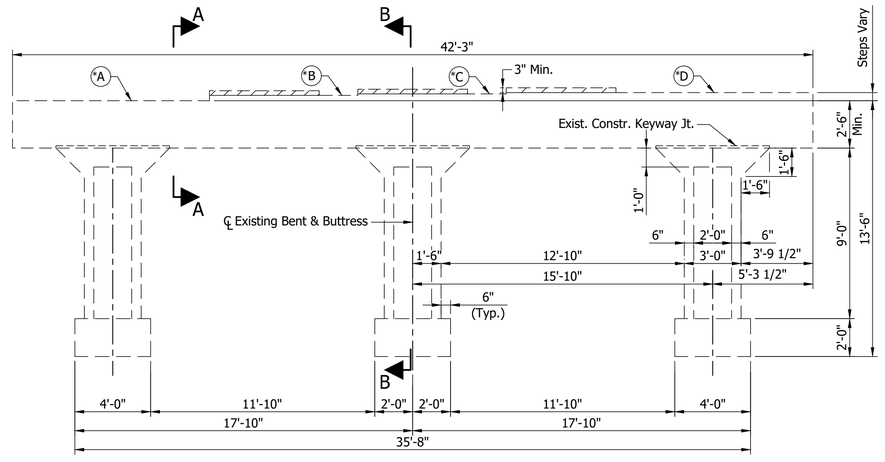
Scale: 1/4" = 1'-0"

Note:

Hatched Areas indicate portions to be removed.

TABLE OF ELEVATIONS		
ELEVATION POINT	BENT NO.1	
	SOUTHBOUND	NORTHBOUND
"A"	501.99	501.99
"B"	502.25	502.25
"C"	502.33	502.33
"D"	502.40	502.40

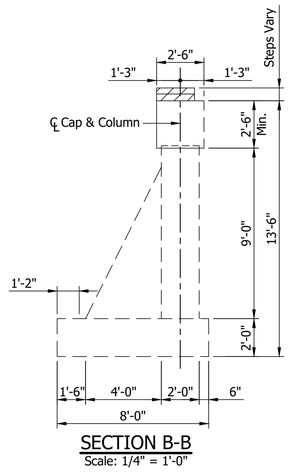
* Contractor shall verify all existing bridge seat elevations.



ELEVATION

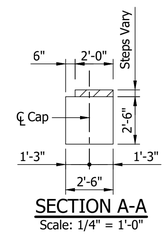
NBL SHOWN, SBL SIMILAR BY OPPOSITE HAND

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.xx.

For Reconstruction Details, see Dwgs.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

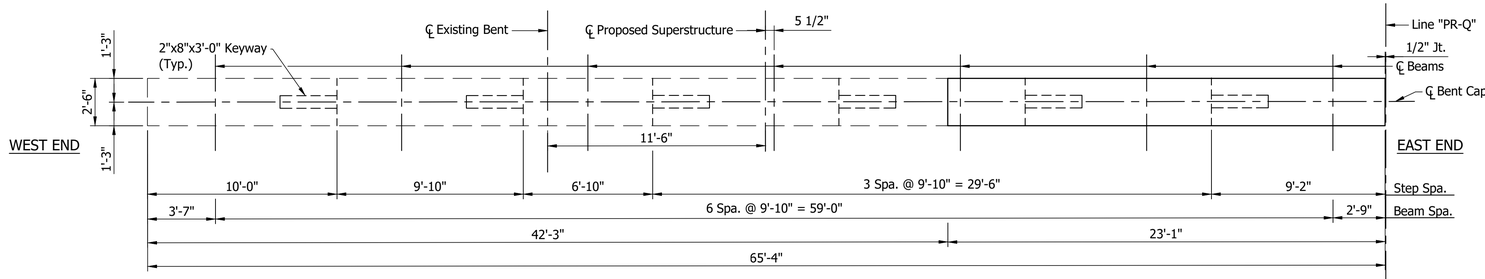
DESIGNED: APL DRAWN: NW

CHECKED: RTW CHECKED: APL

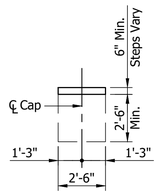
INDIANA DEPARTMENT OF TRANSPORTATION

BENT NO. 1
REMOVAL DETAILS

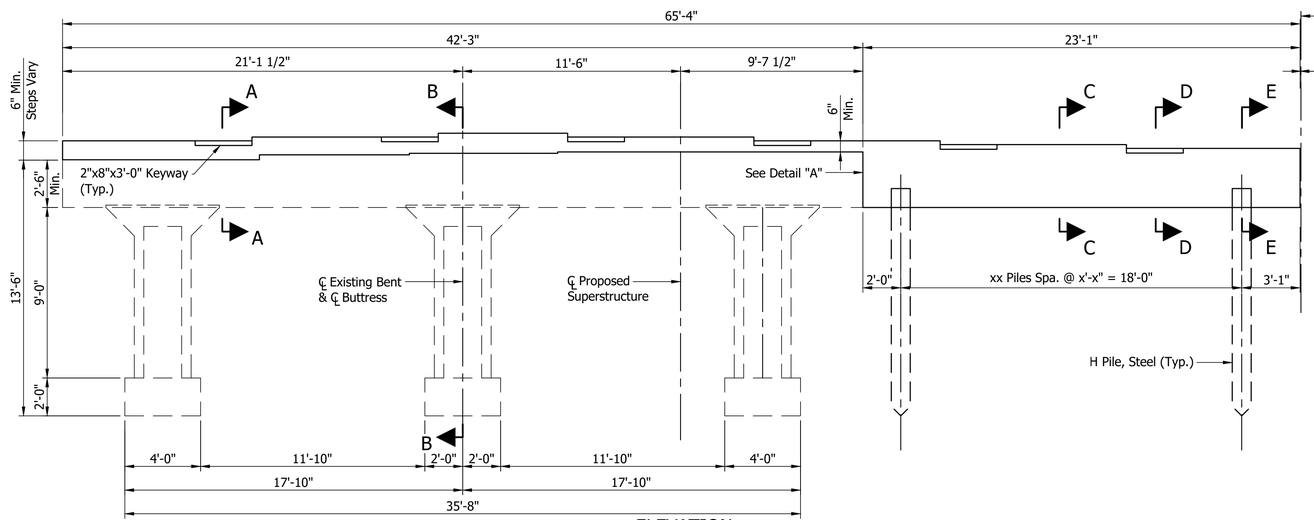
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
C5 of C18	14 of 28
CONTRACT	PROJECT
R-41529	1700135



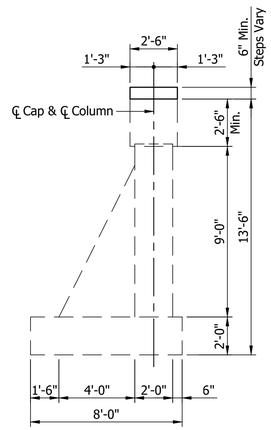
CAP PLAN
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

For Sections C-C, D-D, E-E, Detail "A" and additional notes, see Dwg.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL | DRAWN: NW

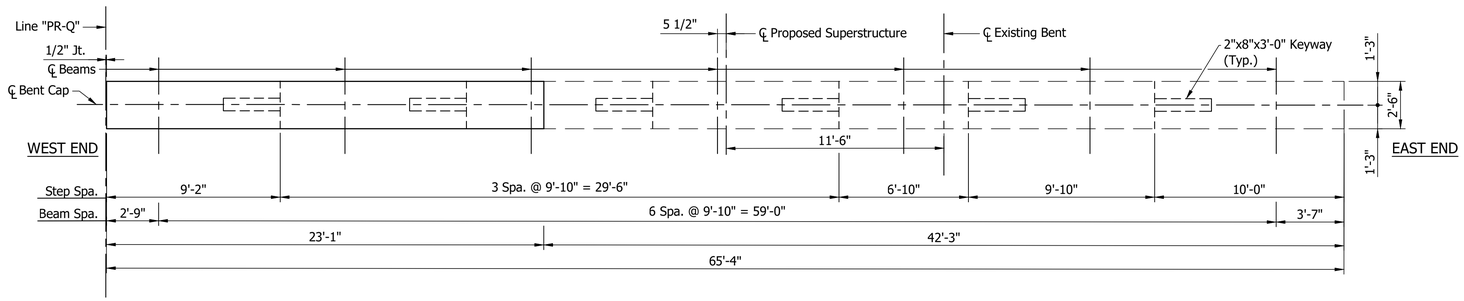
CHECKED: RTW | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

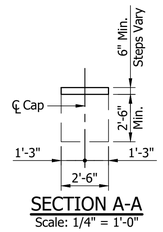
BENT NO. 1
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

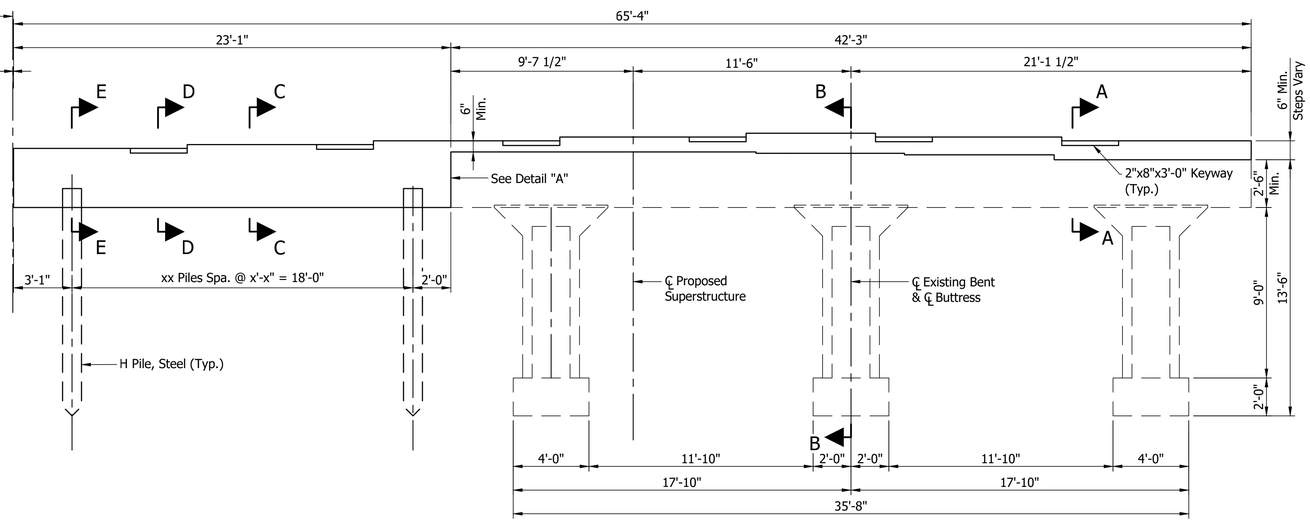
DRAWING NO.	SHEETS
C7 of C18	16 of 28
CONTRACT	PROJECT
R-41529	1700135



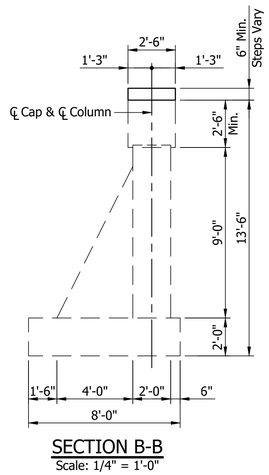
CAP PLAN
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

For Sections C-C, D-D, E-E, Detail "A" and additional notes, see Dwg.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

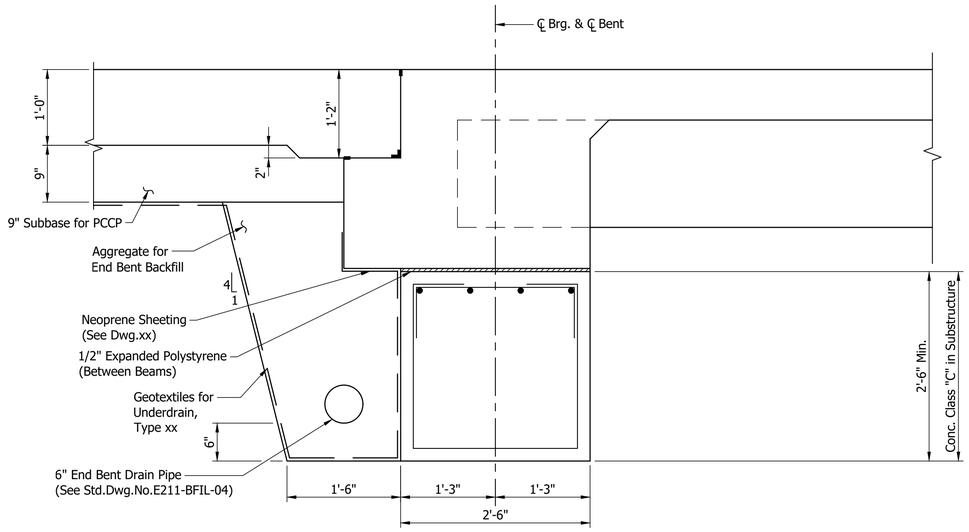
CHECKED: RTW CHECKED: APL

INDIANA DEPARTMENT OF TRANSPORTATION

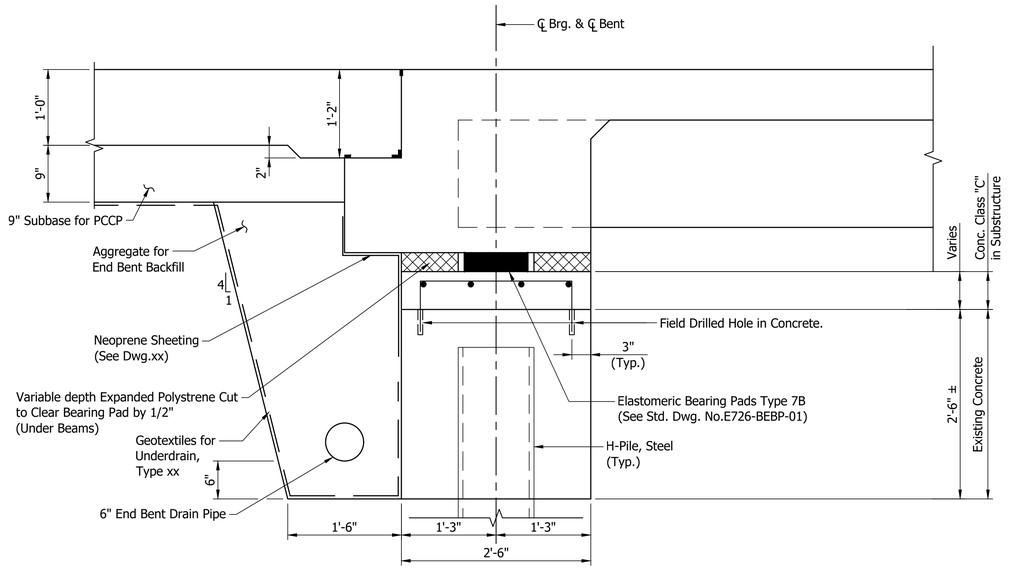
BENT NO. 1
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

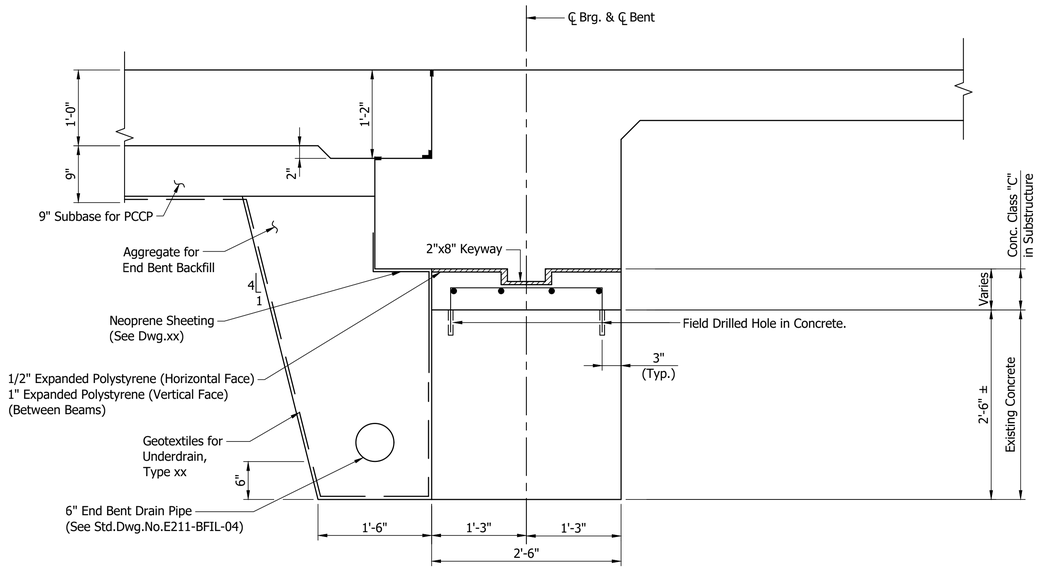
DRAWING NO.	SHEETS
C6 of C18	15 of 28
CONTRACT	PROJECT
R-41529	1700135



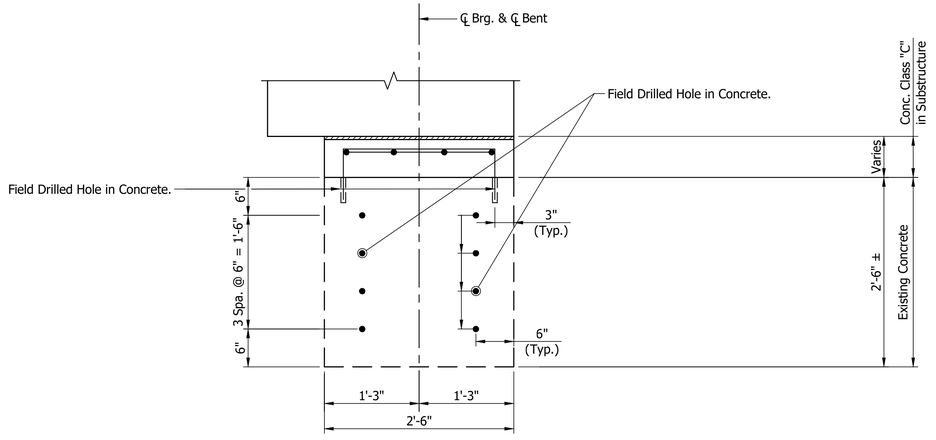
SECTION C-C
Scale: 1' = 1'-0"



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



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



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

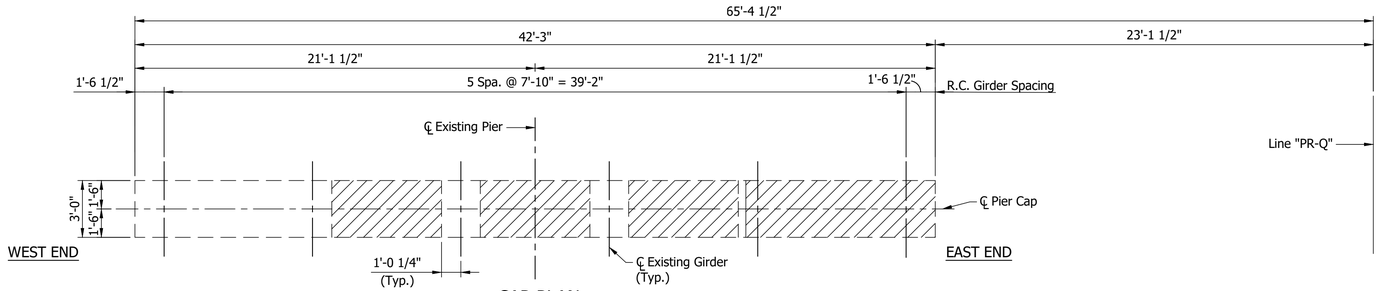
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.1 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C8 of C18	17 of 28
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN

SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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

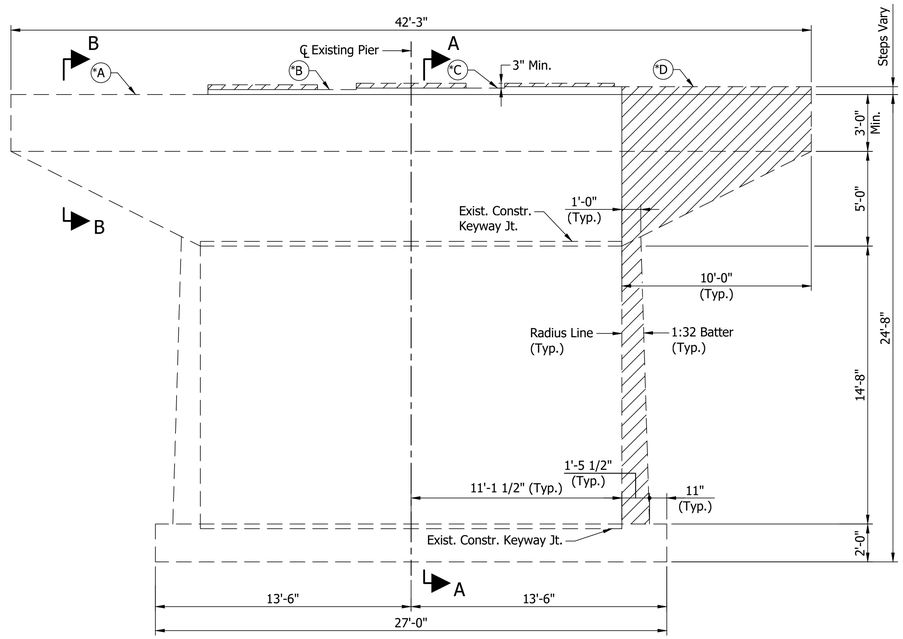
Notes:

Temporary Shoring required at exterior hammer under phased construction.

Hatched Areas indicate portions to be removed.

TABLE OF ELEVATIONS		
ELEVATION POINT	PIER NO.2	
	SOUTHBOUND	NORTHBOUND
"A"	500.70	500.70
"B"	500.96	500.96
"C"	501.04	501.04
"D"	501.11	501.11

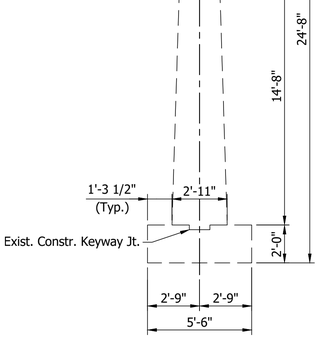
*Contractor shall verify all existing bridge seat elevations.



ELEVATION

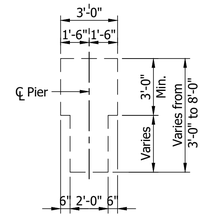
SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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



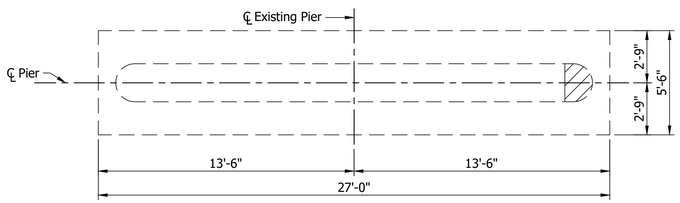
SECTION A-A

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



SECTION B-B

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



FOOTING PLAN

SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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

Notes:

For General Notes, see Dwg.xx.

For Reconstruction Details, see Dwgs.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

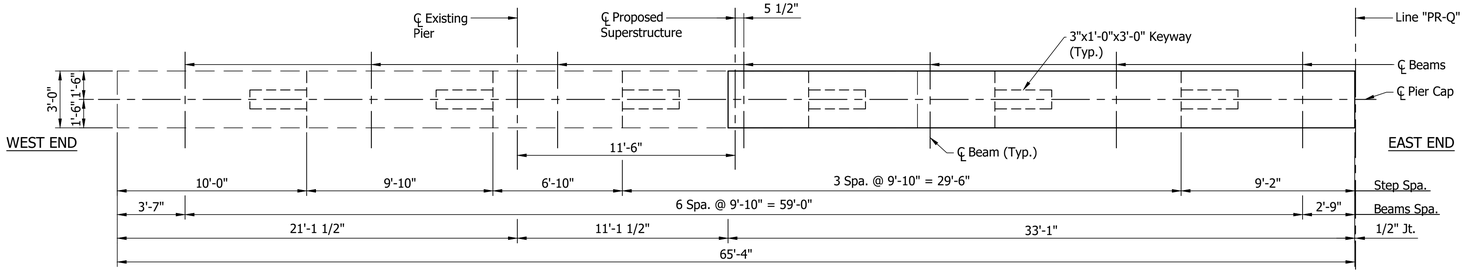
DESIGNED: APL DRAWN: NW

CHECKED: RTW CHECKED: APL

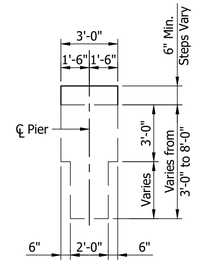
INDIANA DEPARTMENT OF TRANSPORTATION

PIER NO. 2 REMOVAL DETAILS

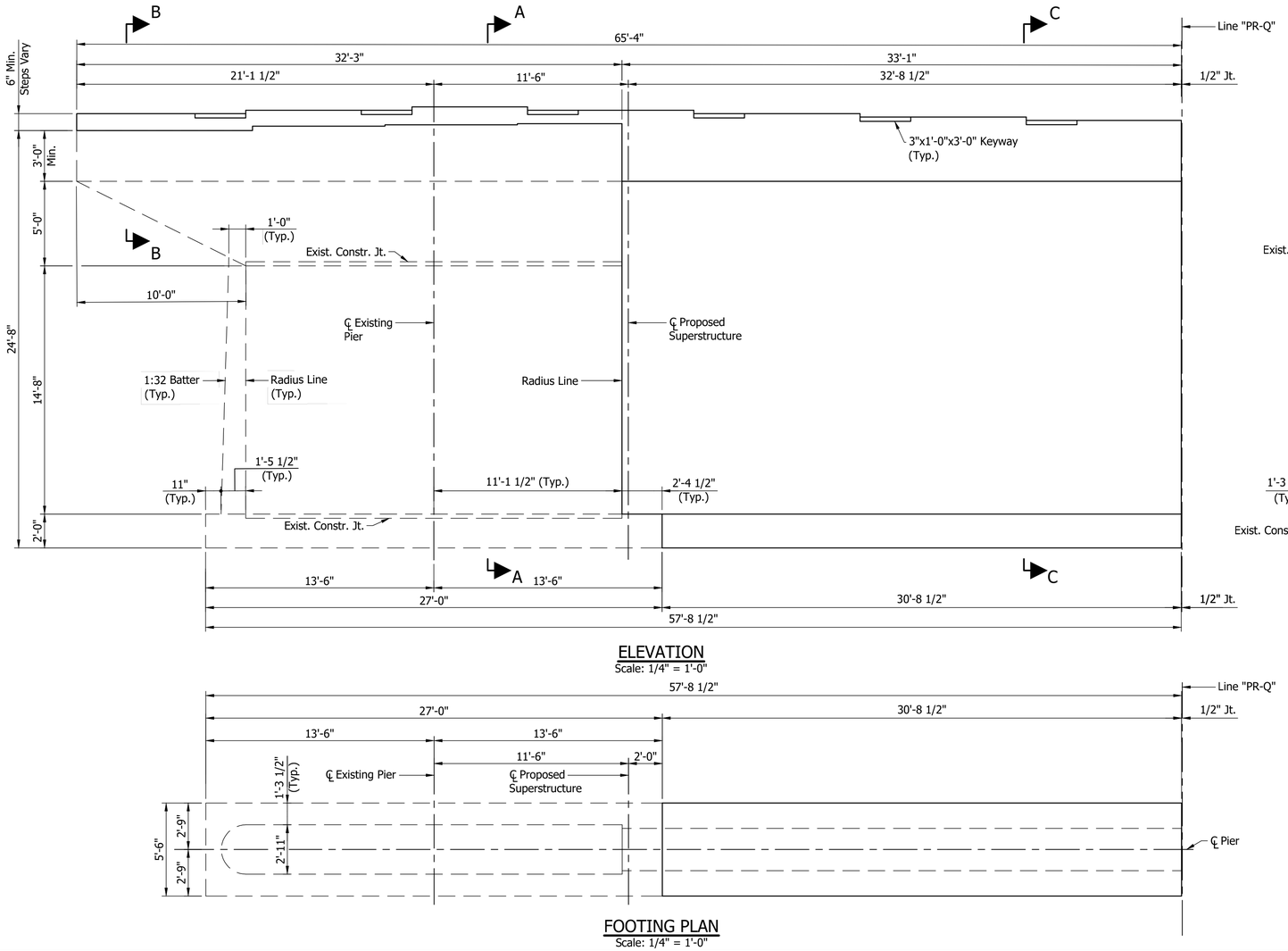
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
C9 of C18	18 of 28
CONTRACT	PROJECT
R-41529	1700135



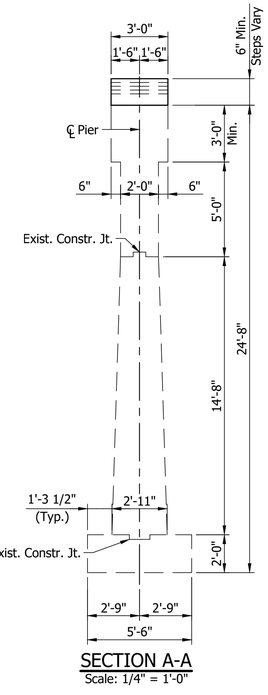
CAP PLAN
Scale: 1/4" = 1'-0"



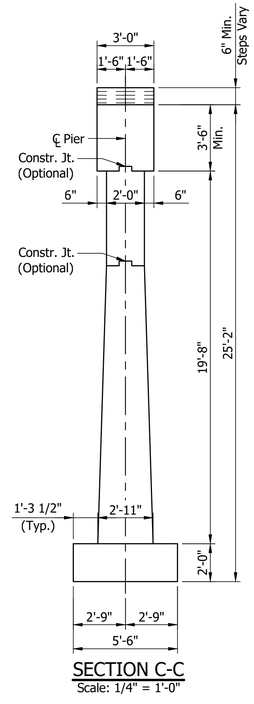
SECTION B-B
Scale: 1/4" = 1'-0"



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



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



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

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

Notes:

For General Notes, see Dwg.xx.

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL | DRAWN: NW

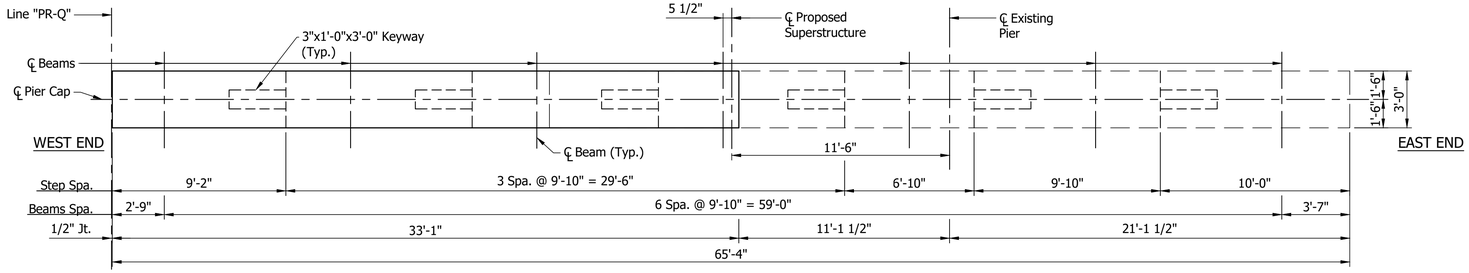
CHECKED: RTW | CHECKED: APL

INDIANA DEPARTMENT OF TRANSPORTATION

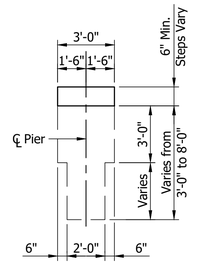
PIER NO. 2
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

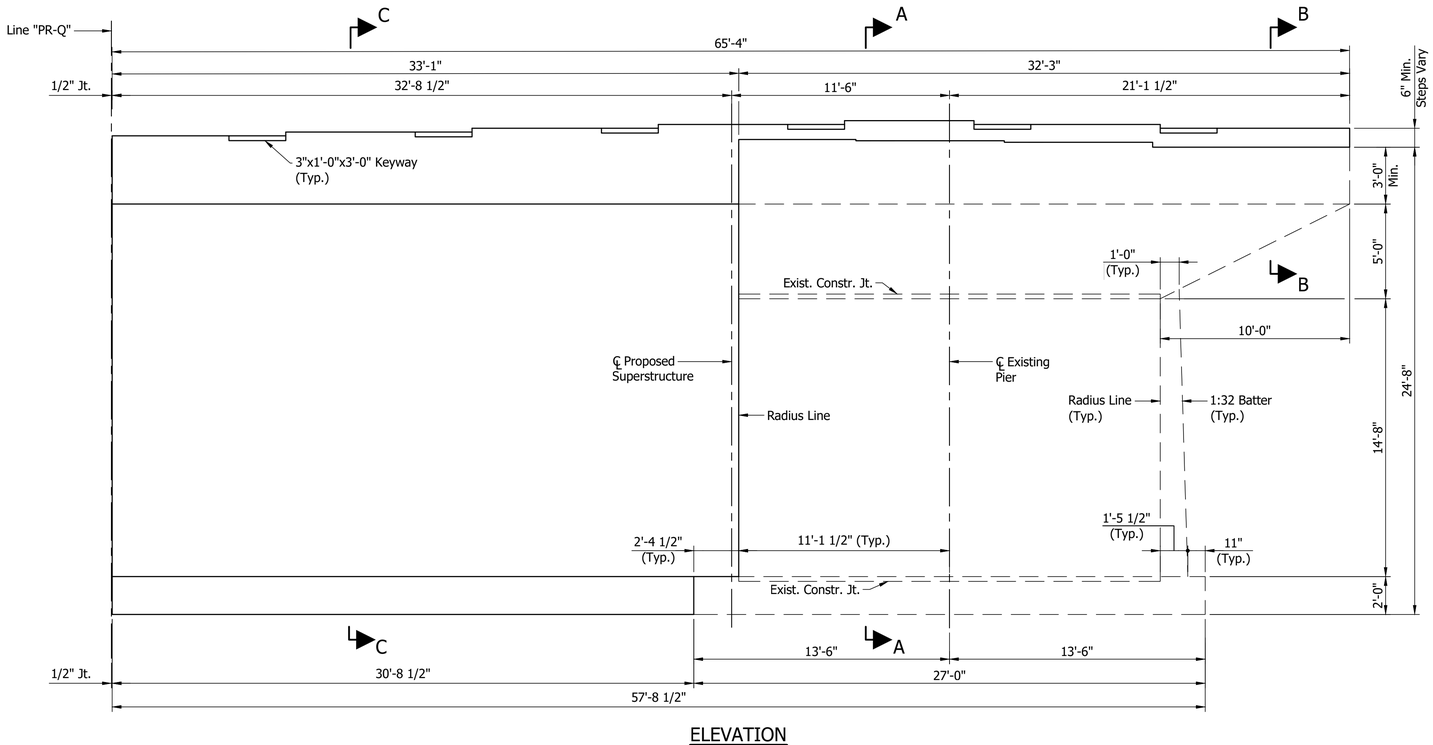
DRAWING NO.	SHEETS
C10 of C18	19 of 28
CONTRACT	PROJECT
R-41529	1700135



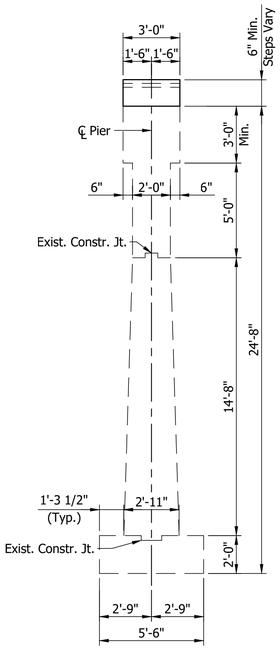
CAP PLAN
Scale: 1/4" = 1'-0"



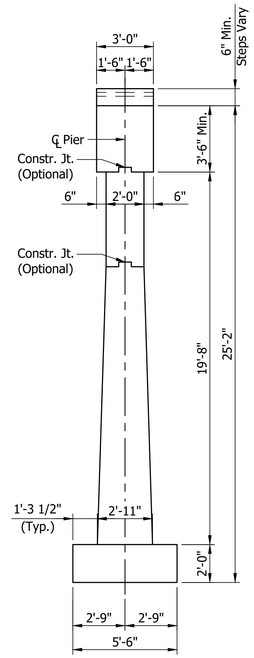
SECTION B-B
Scale: 1/4" = 1'-0"



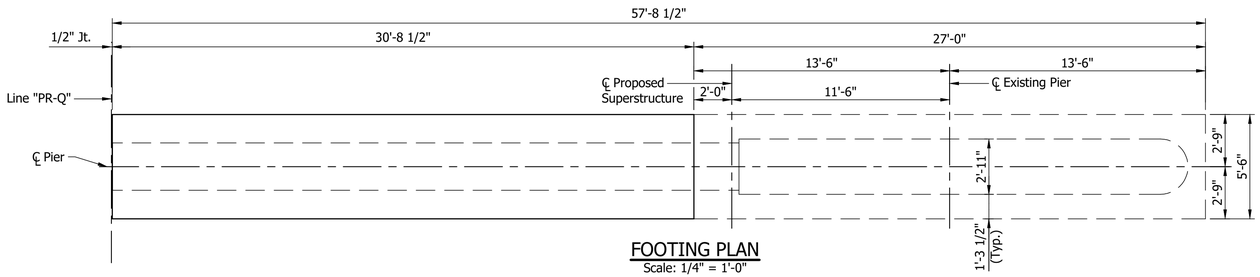
ELEVATION
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL | DRAWN: NW

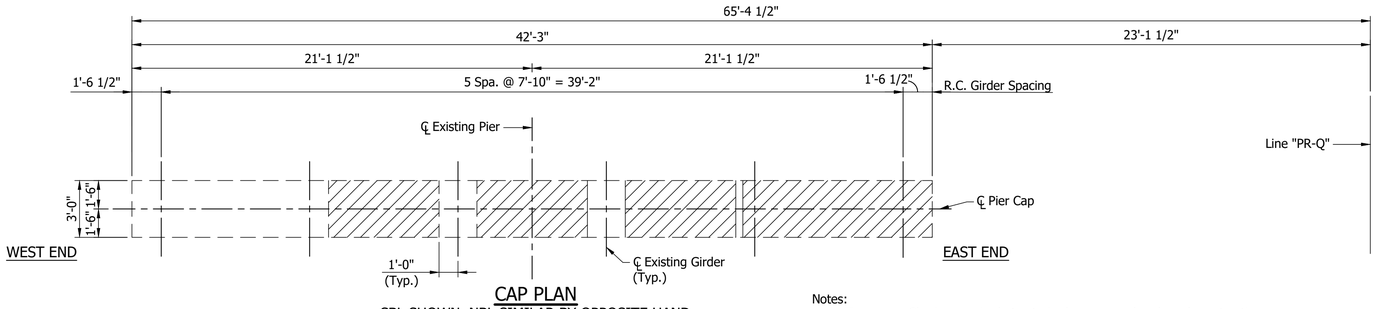
CHECKED: RTW | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 2
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C11 of C18	20 of 28
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN

SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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

Notes:

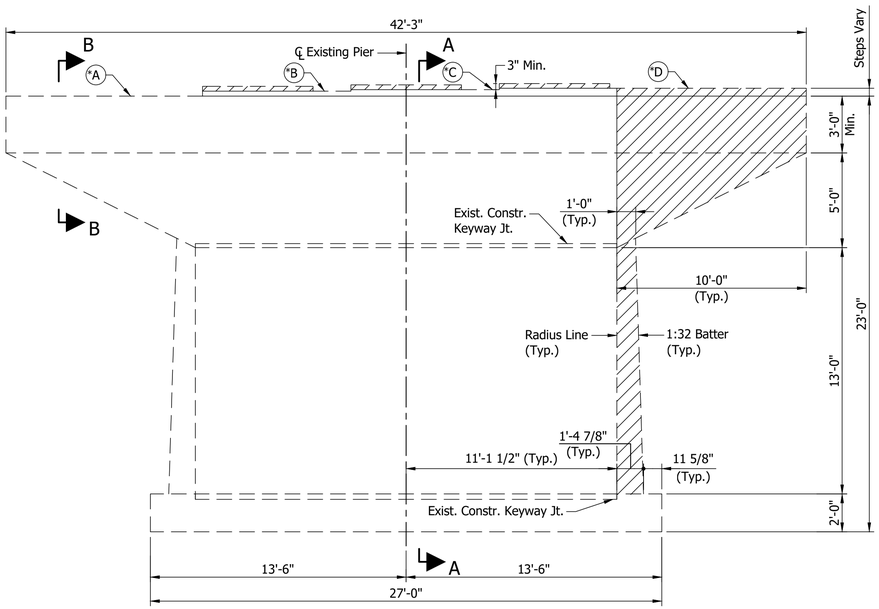
Temporary Shoring required at exterior hammer under phased construction.

Hatched Areas indicate portions to be removed.

TABLE OF ELEVATIONS

ELEVATION POINT	PIER NO.3	
	SOUTHBOUND	NORTHBOUND
"A"	499.42	499.42
"B"	499.68	499.68
"C"	499.76	499.76
"D"	499.83	499.83

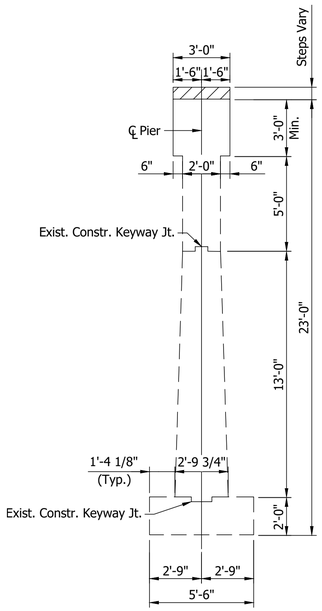
*Contractor shall verify all existing bridge seat elevations.



ELEVATION

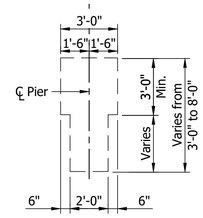
SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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



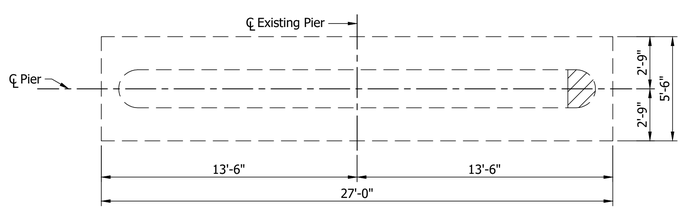
SECTION A-A

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



SECTION B-B

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



FOOTING PLAN

SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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

Notes:

For General Notes, see Dwg.xx.

For Reconstruction Details, see Dwgs.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

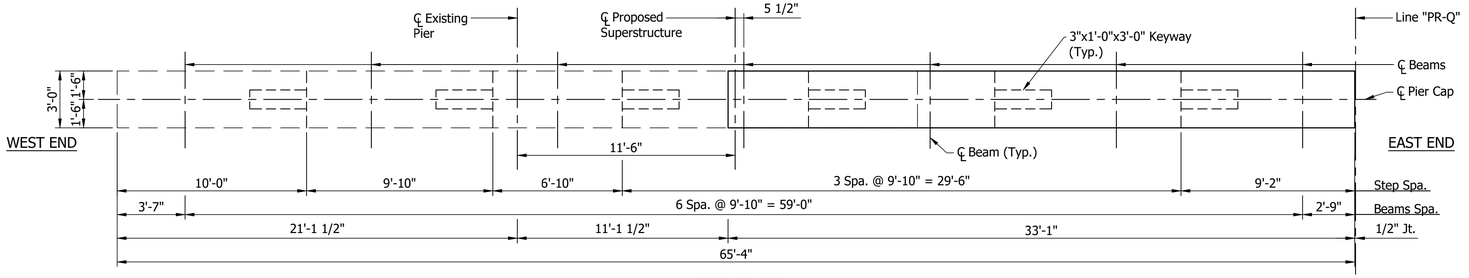
DESIGNED: APL DRAWN: NW

CHECKED: RTW CHECKED: APL

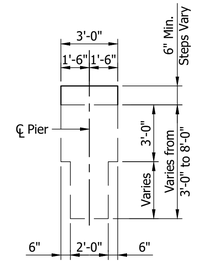
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 3
REMOVAL DETAILS

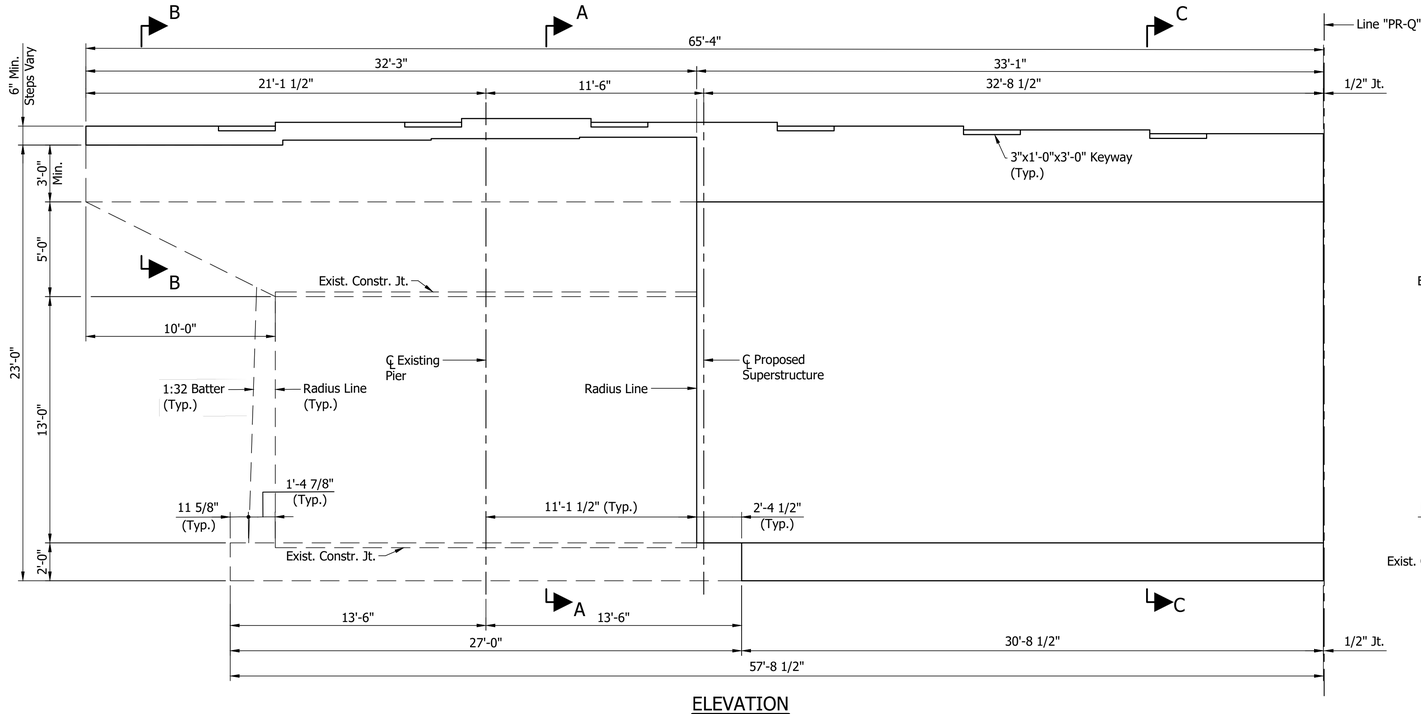
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
C12 of C18	21 of 28
CONTRACT	PROJECT
R-41529	1700135



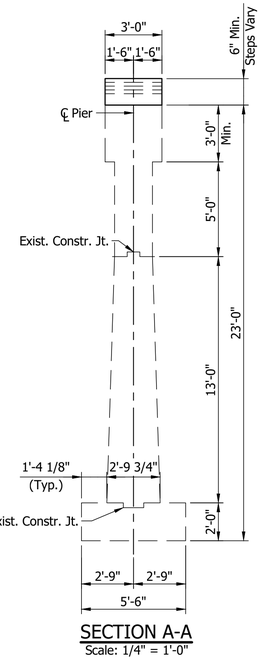
CAP PLAN
Scale: 1/4" = 1'-0"



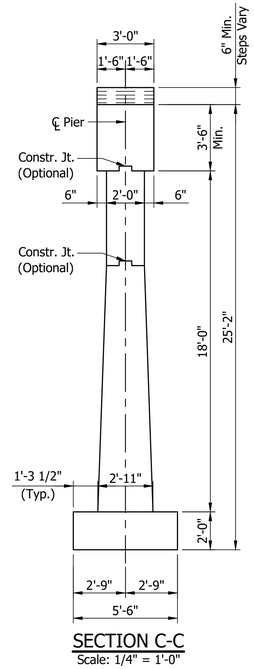
SECTION B-B
Scale: 1/4" = 1'-0"



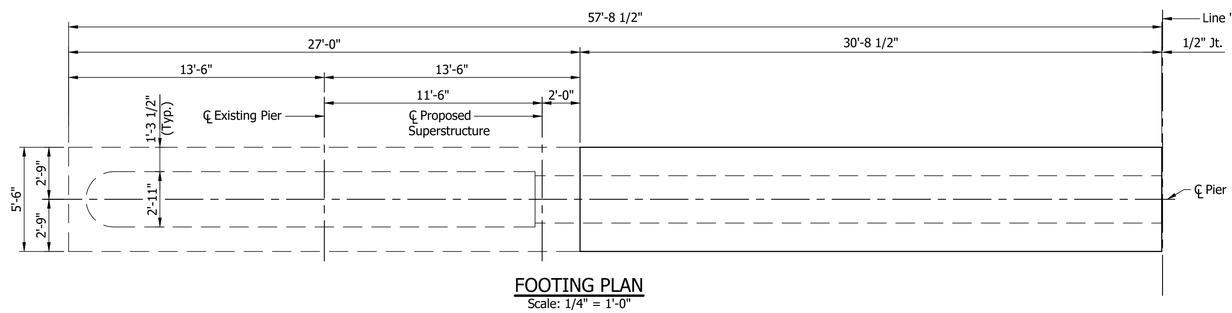
ELEVATION
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

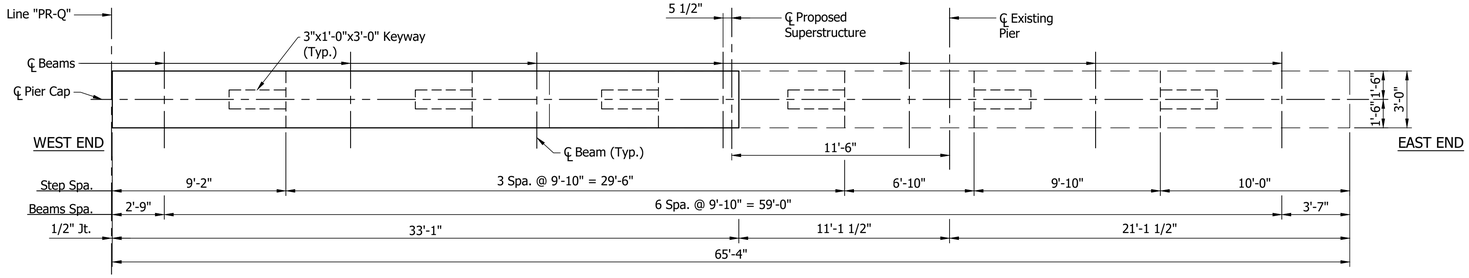
CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

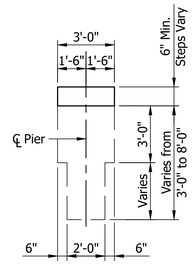
PIER NO. 3
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

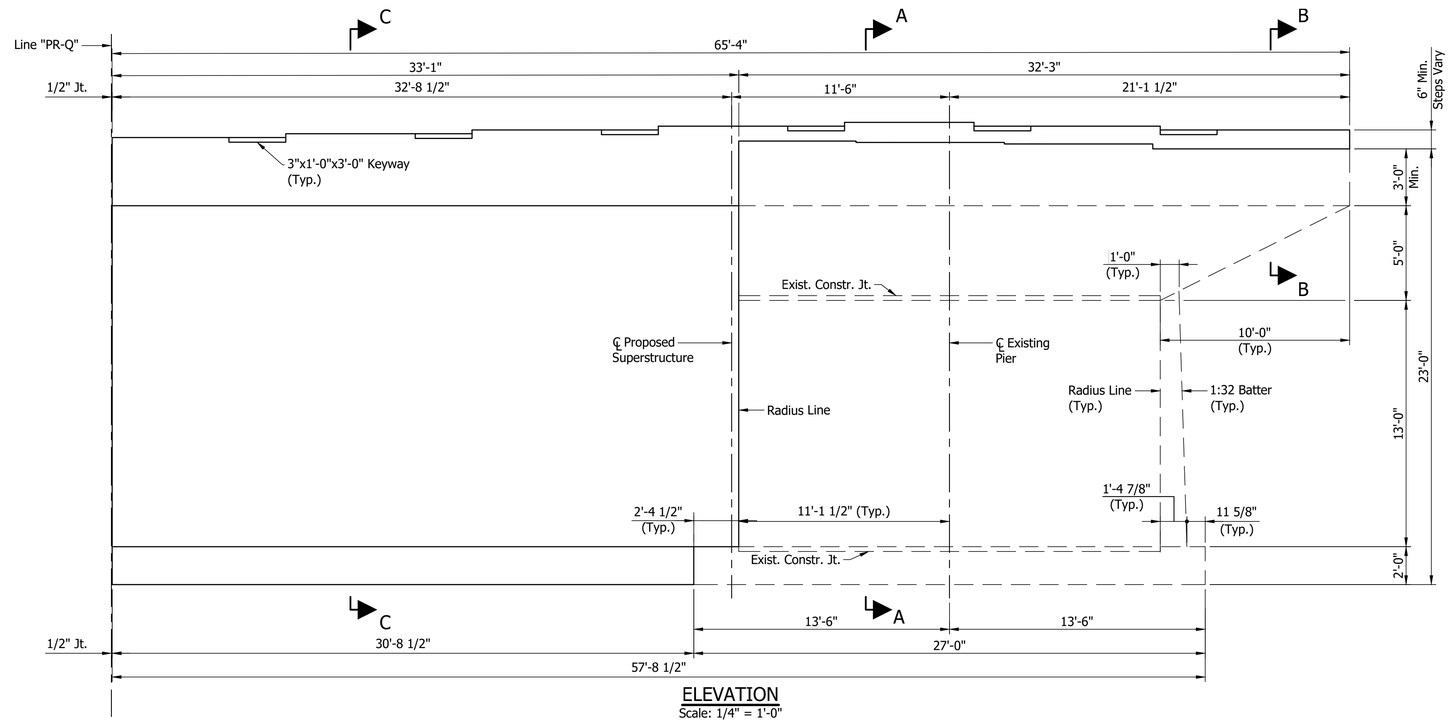
DRAWING NO.	SHEETS
C13 of C18	22 of 28
CONTRACT	PROJECT
R-41529	1700135



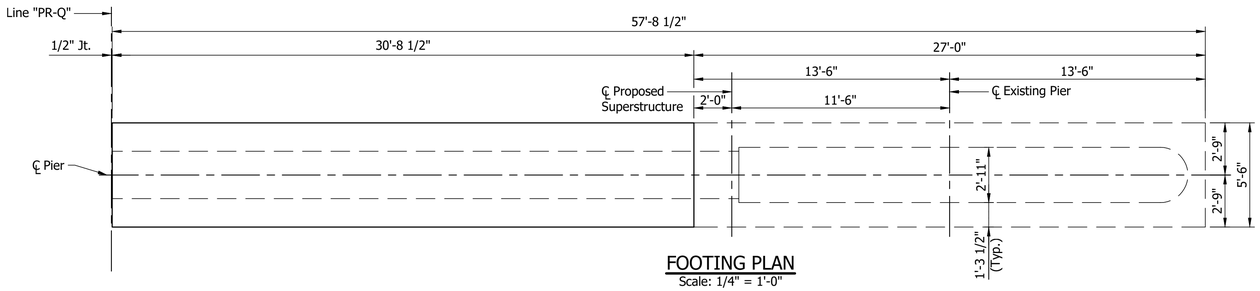
CAP PLAN
Scale: 1/4" = 1'-0"



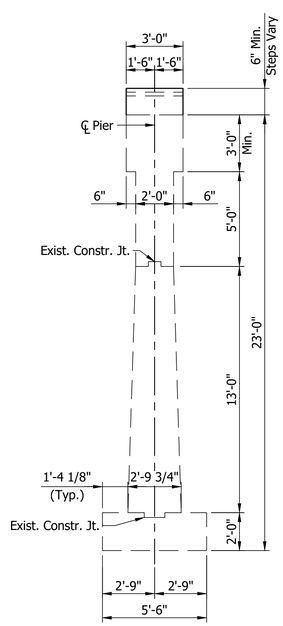
SECTION B-B
Scale: 1/4" = 1'-0"



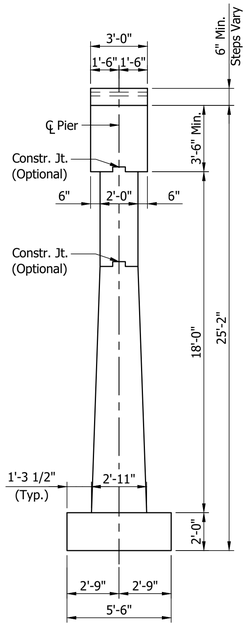
ELEVATION
Scale: 1/4" = 1'-0"



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



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



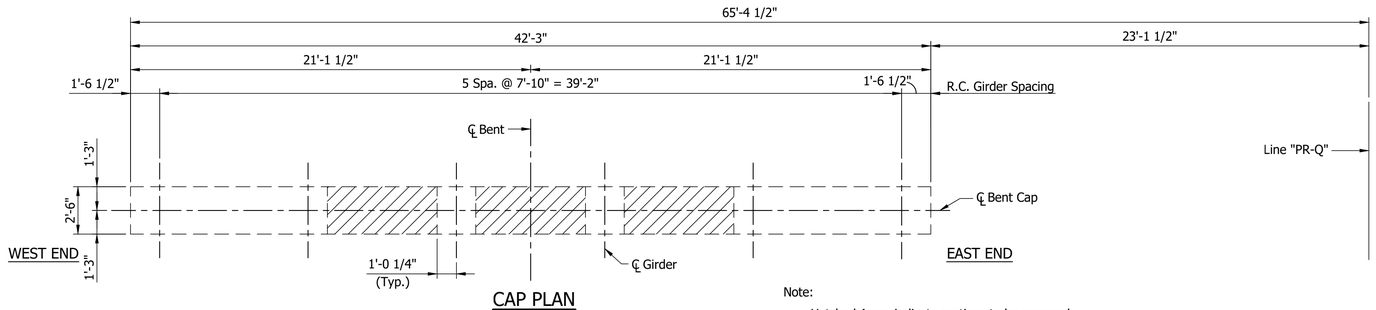
SECTION C-C
Scale: 1/4" = 1'-0"

Notes:

For General Notes, see Dwg.xx.

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

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: AS NOTED; VERTICAL SCALE: AS NOTED; BRIDGE FILE: I65-017-04222 ENBL & ESBL; DESIGNATION: 1600729 (NB) & 1600733 (SB)
DESIGNED: APL	DRAWN: NW	PIER NO. 3 NBL RECONSTRUCTION DETAILS	DRAWING NO.: C14 of C18; SHEETS: 23 of 28
CHECKED: RTW	CHECKED: APL		CONTRACT: R-41529; PROJECT: 1700135



CAP PLAN

SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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

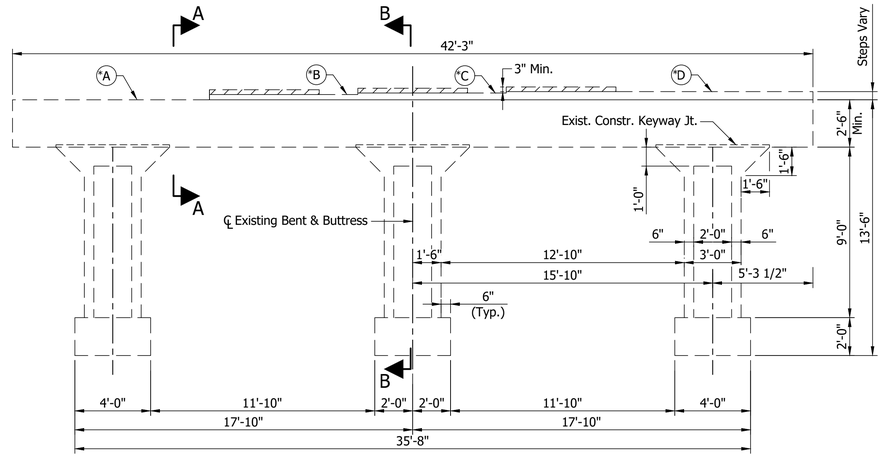
Note:

Hatched Areas indicate portions to be removed.

TABLE OF ELEVATIONS

ELEVATION POINT	BENT NO.4	
	SOUTHBOUND	NORTHBOUND
"A"	498.17	498.17
"B"	498.43	498.43
"C"	498.51	498.51
"D"	498.58	498.58

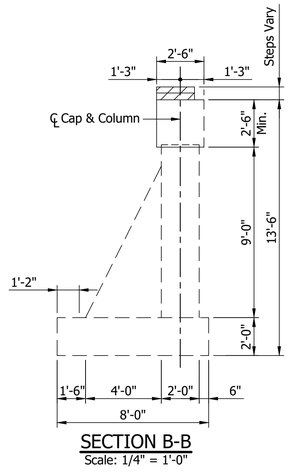
* Contractor shall verify all existing bridge seat elevations.



ELEVATION

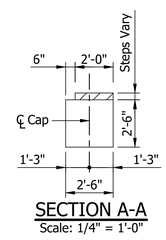
SBL SHOWN, NBL SIMILAR BY OPPOSITE HAND

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



SECTION B-B

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



SECTION A-A

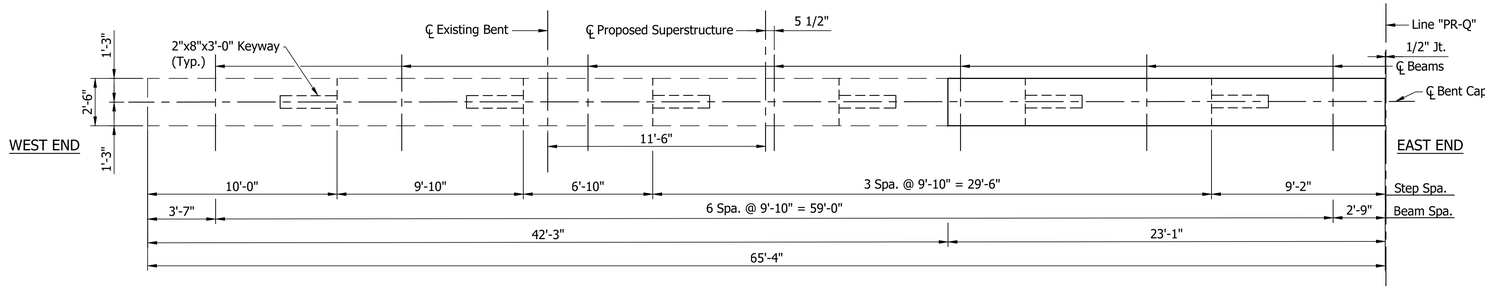
Scale: 1/4" = 1'-0"

Notes:

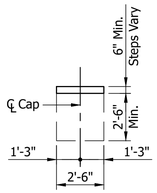
For General Notes, see Dwg.xx.

For Reconstruction Details, see Dwgs.xx.

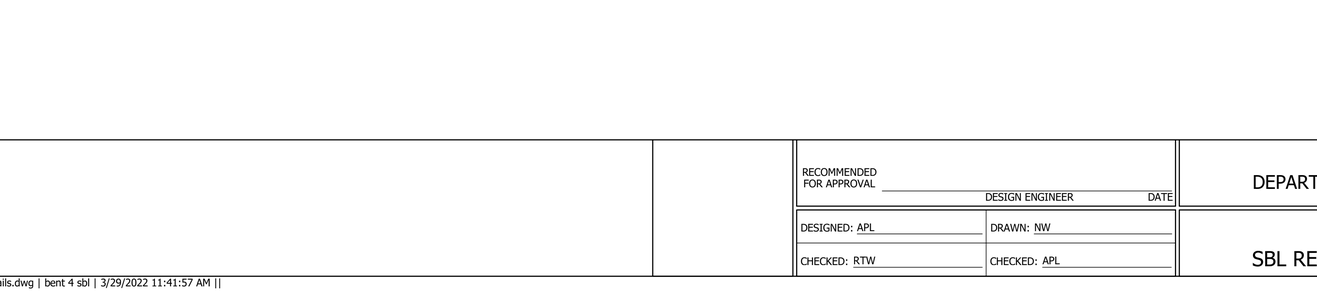
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE: AS NOTED; VERTICAL SCALE: AS NOTED; BRIDGE FILE: I65-017-04222 ENBL & ESBL; DESIGNATION: 1600729 (NB) & 1600733 (SB)
DESIGNED: APL; DRAWN: NW; CHECKED: RTW; CHECKED: APL		BENT NO. 4 REMOVAL DETAILS	DRAWING NO.: C15 of C18; SHEETS: 24 of 28; CONTRACT: R-41529; PROJECT: 1700135



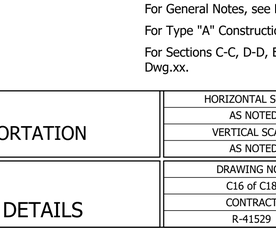
CAP PLAN
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

For Sections C-C, D-D, E-E, Detail "A" and additional notes, see Dwg.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL | DRAWN: NW

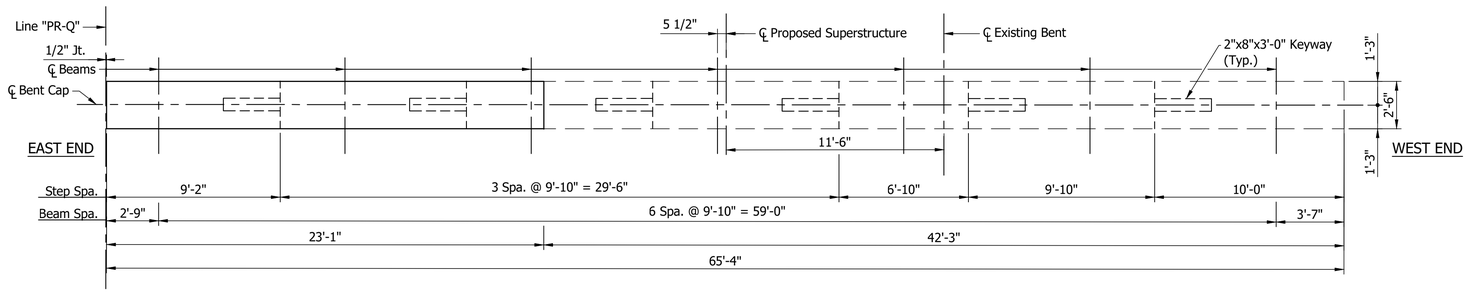
CHECKED: RTW | CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

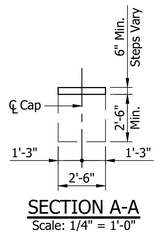
BENT NO. 4
SBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

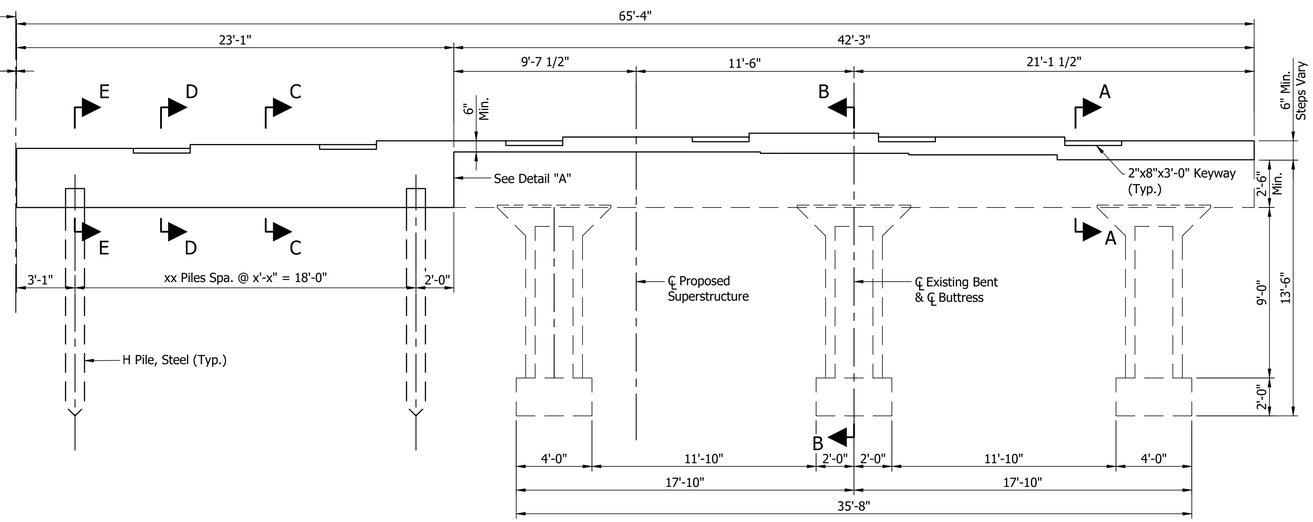
DRAWING NO.	SHEETS
C16 of C18	25 of 28
CONTRACT	PROJECT
R-41529	1700135



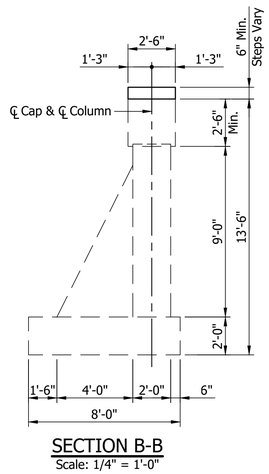
CAP PLAN
Scale: 1/4" = 1'-0"



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



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



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

Notes:

For General Notes, see Dwg.xx.

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

For Sections C-C, D-D, E-E, Detail "A" and additional notes, see Dwg.xx.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL | DRAWN: NW

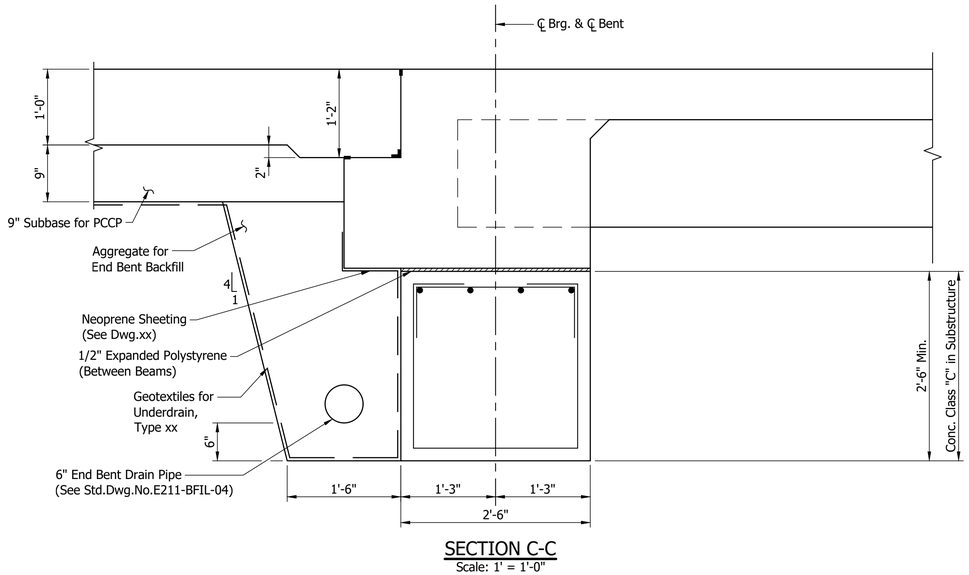
CHECKED: RTW | CHECKED: APL

INDIANA DEPARTMENT OF TRANSPORTATION

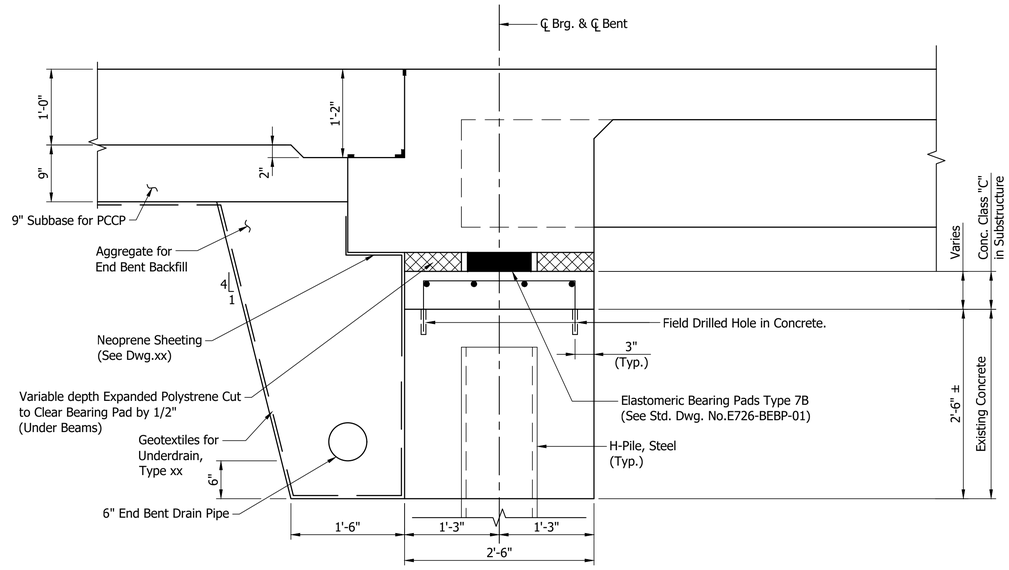
BENT NO. 4
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

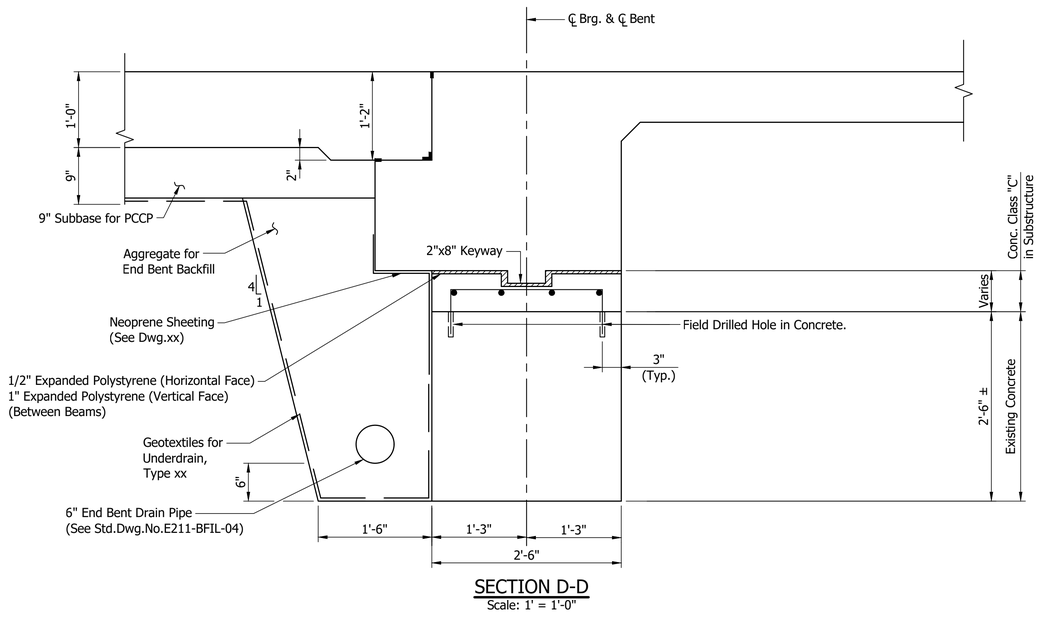
DRAWING NO.	SHEETS
C17 of C18	26 of 28
CONTRACT	PROJECT
R-41529	1700135



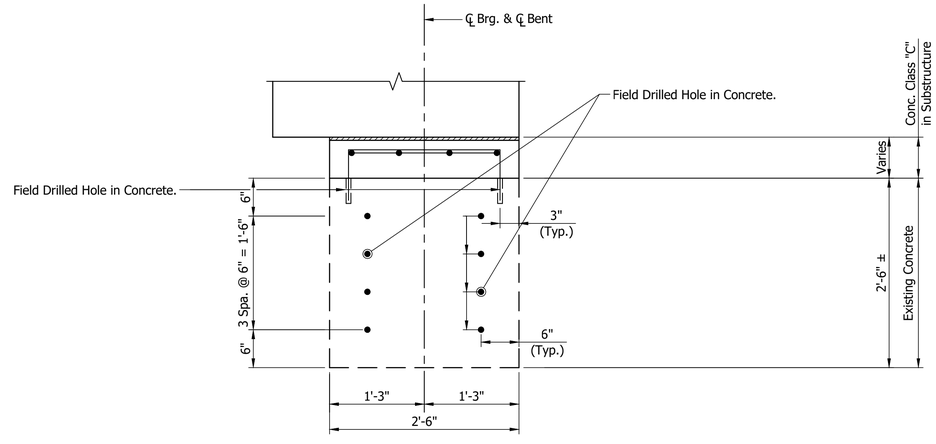
SECTION C-C
Scale: 1' = 1'-0"



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



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



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

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO.4 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1600729 (NB) & 1600733 (SB)

DRAWING NO.	SHEETS
C18 of C18	27 of 28
CONTRACT	PROJECT
R-41529	1700135

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			RAILING, CONCRETE FT	RAILING, SLIDING PLATE	BARRIER DELINE-ATORS	MODIFIED CONC. RAILING TRANSITION, TFT	REINF. CONC. BRIDGE APPROACH, 12"	DENSE GRADED SUBBASE	TERMINAL JOINT	REINF. BARS	REINF. BARS EPOXY COATED	FIELD DRILLED HOLE IN CONCRETE	STRUCTURAL STEEL*	DRILLED HOLE	STUD SHEAR CONNECTORS	PIPE RDWY. DRAIN, CASTING EXTENSION	DECK DRAIN	PILES						AGGREGATE FOR END BENT BACKFILL	GEOTEXTILES FOR UNDERDRAINS, TYPE 2A	STRUCTURAL EXPANSION JOINT, M	EXCAVATION FOUNDATION, UNCLASS.	PATCHING CONCRETE STRUCTURES	SURFACE SEAL*
	CLASS C	CLASS B	CLASS A																STEEL H, HP12x74	TEST PILE, INDICATOR, PRODUCTION	TEST PILE, INDICATOR, RESTRIKE	DYNAMIC PILE LOAD TEST	PILE SHOE, STEEL H						
	SUPERSTR.	IN FTG.	SUBSTR.																										
	CYS	CYS	CYS	CYS	LFT	EACH	EACH	SYS	CYS	LFT	LBS	LBS	EACH	LBS	EACH	EACH	EACH	EACH	NO.	LFT	LFT	EACH	EACH	EACH	CYS	SYS	LFT	CYS	SFT	SFT
BENT NO.1 (NBL)																													
PIER NO.2 (NBL)																													
PIER NO.3 (NBL)																													
BENT NO.4 (NBL)																													
SUPERSTRUCTURE (NBL)																													
R.C. BRIDGE APPROACH-BENT NO.1 (NBL)																													
R.C. BRIDGE APPROACH-BENT NO.4 (NBL)																													
BENT NO.1 (SBL)																													
PIER NO.2 (SBL)																													
PIER NO.3 (SBL)																													
BENT NO.4 (SBL)																													
SUPERSTRUCTURE (SBL)																													
R.C. BRIDGE APPROACH-BENT NO.1 (SBL)																													
R.C. BRIDGE APPROACH-BENT NO.4 (SBL)																													
SUBTOTAL (NBL)																													
SUBTOTAL (SBL)																													
TOTALS																													

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: APL DRAWN: NW

CHECKED: RTW CHECKED: APL

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-017-04222 ENBL & ESBL
VERTICAL SCALE	DESIGNATION
N/A	1600729 (NB) & 1600733 (SB)
DRAWING NO.	SHEETS
	28 of 28
CONTRACT	PROJECT
R-41529	1700135