## INDOT BRIDGE DESIGN AIDS

## BDA 100-01 | FEBRUARY 07, 2019 (REV. FEBRUARY 15, 2022)

## BRIDGE SAMPLE PLANS

## Reference: IDM 14 Plan Preparation

The following set of sample bridge plans has been created to illustrate a typical set for designers.

Sheet	Revision Date	Note
Title	02/07/2019	Made changes to the HUC number and to note #11. For more information concerning HUC numbers: <u>https://www.in.gov/idem/nps/2422.htm</u>
Beam Details	04/08/2021	Notes related to handling, storage, and transportation have been removed. INDOT <i>Standard Specifications</i> 707.08 provides requirements for handling and shipping of prestressed members. Project-specific deviations from the <i>Standard Specifications</i> should be included in the contract by Unique Special Provision, and may be accompanied by notes on the plans.
Beam Details	2/15/2022	Design Data notes updated to show strand area and removed reference to ASTM for strands, which is in the <i>Standard</i> <i>Specifications</i> .

The purpose of this drawing is to provide an overview of the project, including project data, design data, project location, and approval signatures.

000000		0000000				
CONTRAC	ГВ	RIDGE FILE	-1 Mat	ch Title Block Text St	yle	
B-99999	05	57-14-00000				
	ATR11					
	SIRU			ATION	CTATION	
STRUCTURE		te 3 Spans: 38	D SKEW	OVER	STATION	-(2)
7-14-00000	Prestressed Concret I-Beam Type II	e & 38 Skew: 2	'-0" 20° Rt.	Veale Creek	1446+50 Line "A"	
	KIN PR	OJECT II	NFORM	1ATION		
DESIGNATION		PRC	JECT DESCR	IPTION		
000000		DESCRIPTION OF A	SSOCIATED	PROJECT		-
0000000	TITLE OR BRIEF OF D	DESCRIPTION OF A	SSOCIATED	PROJECT		
REQUIRED	ELEMENTS:					
1) Project I	nformation Block (U	pper Left				
and Low	er Right Corners)					
2) Structure	e Information Table					
3 Project N	Numbers					
4 Reference	e Post					
5 Project V	work Description					
- North / - Begin a	Arrow and Scale and End Project Callo	outs	Name, Title	2		
7 Traffic/D - See ID	esign Data Table M Fig 14-3C for acce	ptable				
	or Design Data Table		Name, Title	2		
10 Project I	ength Table		Name, Emp	oloyee in Responsible Cha	arge	
- Do not - Do not construc	include length of S-I include length of inc tion	lines cidental				
11 Hydrolog for a wa typ. HUC	gic Unit Code (Where terway permit applic 212)	e needed ation,				
12 Standard	Specification Refere	ence				
(13) Signatur	e Block and PE Seal					
(14) Kin Proje applicab	ect Information Table le)	e (when				
(15) Owner a Reponsil (LPA Pro	nd LPA Employee in ple Charge (ERC) sig jects Only)	natures				Sta. 14
INTENDED	USE AND DISCL	_AIMER INFC	ORMATIO	<u>N</u> :		
This set of sar The callouts a for a callout, le makes no gua project althoug design in acco must determin	nple plan sheets is p nd notes in this samp evel of specificity, an rantee of the accurac gh every attempt has rdance with the curr the specific content of conflict, the policies	rovided for illust ole plan are inte id its expected a cy of data used s been made to ent <i>Indiana Des</i> notes for his/he	rative purp nded only t ppearance. for this hyp produce a r <i>ign Manual</i> . er individual	oses only. o show a need INDOT othetical reasonable The Designer project. In		Structu Sta.

02/07/2019 Made changes to the HUC number and to note #11. For more information concerning HUC numbers: https://www.in.gov/idem/nps/2422.htm

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Title.dgn

# **INDIANA DEPARTMENT OF TRANSPORTATION**

Text Font = Tahoma (Typ. All Text) Text Height =  $0.50^{\circ}$ , Bold

BRIDGE PLANS Text Height = 0.70" FOR SPANS OVER 20 FEET Text Height = 0.37" ROUTE: SR 57 AT: RP 45+94 (Text Height = 0.40") 9999999 P.E. PROJECT NO. 9999999 R/W NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT 9999999 CONST. This note placed only when applicable. Bridge Replacement on SR 57 over Veale Creek A complete description of the location Date (5) Located 1.94 Miles South of US 50 for the project must be shown. This is not the survey legal description. Location Description: 18 Pt Text Section 16, T-2-N, R-7-W, Washington Township, Daviess County Date R-7-W Date 5 50 County Road 250 County Road 250 Ţ. <sup>-</sup> 8 9 10 Ż Ż DAVIESS Union Cemetery Thomas Bluff County Road 300S Troy End Project 452+00 Line "A" (6)(57) Veale Creek 15 17 14 Bethel Cemetery ire 057-14-000000 Over Veale Creek 1446+50 Line "A" ٦ 🕿 R-7-W Begin Project Sta. 1441+00 Line "A" (13)PLANS PREPARED BY: Engineer of Record Title Block Text: "THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT." Labels: 10 Pt Text PE SEAL CERTIFIED BY Signature: 12 Pt Text APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION





The purpose of this Index sheet is to provide a listing of all sheets in the plans, utilities contact information, and a record of revisions to the plans.





	INDEX
DRAWING NO.	SUBJECT
	TITLE
	INDEX
	TYPICAL CROSS SECTIONS
	TEMPORARY RUNAROUND
	PLAN AND PROFILE
	SIGNING AND PAVEMENT MARKING DETAILS
	SOIL BORINGS
C1	LAYOUT
C2	GENERAL PLAN
C3-C4	END BENT NO. 1 AND NO. 4 DETAILS
C5-C6	PIER NO. 2 AND NO. 3 DETAILS
C7	FRAMING PLAN
C8-C9	BEAM DETAILS
C10-C11	SUPERSTRUCTURE DETAILS
C12	RAILING DETAILS
C13	SCREEDS
C14	APPROACH SLAB DETAILS
	BRIDGE SUMMARY
	ROAD SUMMARY
	CROSS SECTIONS

	SCALE	BRIDGE FILE
INDIANA	AS NOTED	057-14-000000
DEPARTMENT OF TRANSPORTATION		DESIGNATION
		9999999
		SHEET
		SHEET 2 of 31
INDEX	CONTRACT	SHEET 2 of 31 PROJECT





- J 165 lb/yd<sup>2</sup> QC/QA-HMA, 2, 64, Surface 9.5 mm on 330 lb/yd<sup>2</sup> QC/QA-HMA, 2, 64, Intermediate 19 mm on 6 in. of Compacted Aggregate Base No. 53
- K 165 lb/yd<sup>2</sup> QC/QA-HMA, 3, 70, Surface 9.5 mm on 330 lb/yd<sup>2</sup> QC/QA-HMA, 3, 64, Intermediate 19 mm on 6 in. of Compacted Aggregate Base No. 53
- (K1) 165 lb/yd<sup>2</sup> HMA Surface, Type A on
   275 lb/yd<sup>2</sup> HMA Intermediate, Type A on
   6 in. of Compacted Aggregate Base No. 53
- $(\mathbf{O})$  Variable-Depth Compacted Aggregate Base No. 53
- (R) 165 lb/yd<sup>2</sup> QC/QA-HMA, 2, 64, Surface 9.5 mm on Transition Milling

# Lane and Shoulder Widths Profile Grade, Construction Centerline, paper Relocation Line, and Survey Line Locations Cross Slopes Curbs and Guardrails Sidewalk Locations and Widths Side Slopes Ditches Bicycle Facilities Clear Zone (4R projects) or Obstruction-Free Zone (3R Projects) Pavement Design

**REQUIRED ELEMENTS:** 

- 11 Legend See IDM Fig. 14-3A for Recommended Plans Legends
- (12) Signature Block and PE Seal

	SCALE	BRIDGE FILE
INDIANA	1/4" = 1'-0"	057-14-000000
DEPARTMENT OF TRANSPORTATION		DESIGNATION
		9999999
		SHEET
		SHEET 3 of 31
TYPICAL CROSS SECTIONS	CONTRACT	SHEET 3 of 31 PROJECT

The purpose of this Temporary Runaround sheet is to facilitate Engineering and Construction by providing topo, alignment data, R/W, and profile information for the temporary runaround alignment.







S	SUMMA	RY						7		BRIDG	E REFEI	٦E
X 2	1/2" - 12 GA	A. (TYPE 3)	2" X 2"	SQUARI ' - 12 GA. (T	E TYPE 2)	2 1/4" X	2 1/4" - 12 GA. (TYPE 1)		RP/BRP/MP NO.	LOCATION	SIGN CODE	S
REII	NFORCED A	NCHOR	REIN	FORCED ANG	CHOR	REI	NFORCED ANCHOR		Λ	1445+41 RT	BRM(45)	1
20°	T LENGTH (	(FT.)	POS	T LENGTH (	FT.)	PC	DST LENGTH (FT.)		A	RT	BRM(+94)	1
	2	TOTAL	1	2	TOTAL	1	TOTAL		٨	1447+59 LT	BRM(45)	1
			12.0	12.0	24.0				~	LT	BRM(+94)	1
									A	1448+80 RT	BRM(46)	1
									A	1448+80 LT	BRM(46)	1
$\leq$			$\geq$	$\geq$	24.0							$\geq$

		LINE THER	MOPLASTIC		TRANSVERSI THERMOPLA LII	E MARKINGS ASTIC STOP NE	TRANSVERS CROSSHA	E MARKINGS TCH LINE	TRANSVERSI CROSSW	IT MESSAGE Oplastic Idication Row	
LID	BROKEN	BROKEN	BROKEN	BROKEN	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	AF
LOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	WHITE	YELLOW	YELLOW	WHITE	WHITE	ANE
IN.	4 IN.	4 IN.	8 IN.	8 IN.	12 IN.	24 IN.	24 IN.	24 IN.	4 IN.	8 IN.	PA L
न	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH

	Title Block Text: Labels: 10 Pt Text Signature: 12 Pt Text	PE SEAL	RECOMMENDED FOR APPROVAL DESIGNED: <u>ABC</u> CHECKED: <u>BCD</u>	Engineer of Record         DESIGN ENGINEER         MM/YYYY         DRAWN: PQR         MM/YYYY         CHECKED: RST	MM/DD/YY DATE MM/YYYY MM/YYYY	(
DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Signs Pvmt Markings_30_01 wc.dgn						

The purpose of this Soil Borings sheet is to show the test borings plotted in the structure area. This drawing is used in determining the type of foundation and its associated allowable loads.



DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Borings TB\_03 wc.dgn

ment of Transportation	EST BOR	RING	RECO	ORD			BORIN	g NO.	:		TB- 3	3	CLIENT		Indiana Department of Transportation	rest bo	RING	RECC	RD			BORIN	g NO.	:
ment Str. No.: 057-14-000000		E c	ber	ber 6"	per 12" (N)	very 6)	ure ent (%)	Unit ht (pcf)	nfined pression (sf)	(	OF Atterbe Limits	4 erg			SOIL/MATERIAL DESCRIPTION	0	m	ber	ber 6"	per 12" (N)	very 6)	ure ent (%)	Unit ht (pcf)	nfinad
Medium Stiff, SILT with Wet San	nd  ++++	Strat Dept	Samp Num	SPT	SPT	Reco (%	Moist Conte	Total Weig		LL	PL	PI	Strat Eleva	Sam			Strat Dept	Samp Numi	SPT	SPT	Reco (%	Moist Conte	Total Weig	
	+++++++++++++++++++++++++++++++++++++++	_22.0	SS-7	4 5 7	12	100	19.2			23	15	7	408.9	47.5	Gray, Moist, Stiff to Very Stiff, LOAM with Traces of Gravel; Traces of Coal Fragments 30 feet and 38.5 feet (TILL) A-4 (3), Lab 5	at	52.0	SS-12	7 11 13	24	100	19.4		
			SS-8	4 6 8	14	67	17.5							<u>52.5</u> - - 55.0 - - - - - - - - - - - - - - - - - - -		* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * *	SS-13	7 9 11	20	100	23.1	132.7	1
Stiff to Very Stiff, LOAM with vel; Traces of Coal Fragments at 8.5 feet (TILL) 5	t		SS-9	5 7 9	16	100	17.2	133.5	5.942 @ 15.0%					60.0 62.5	Gray, Moist, Very Stiff to Hard, SILT with Traces of Cobbles and Boulders A-4, As Lab 2	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *	SS-14	8 14 18	32	22	20.8		
			SS-10	4 8 11	19	100	17.7							65.0 67.5		* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * *	SS-15	16 25 34	59	11			
Continued on next page			SS-11	5 9 12	21	100	19.8	132.9	5.720 @ 15.0%				391.9	- 	Brown and Gray, Decomposed, Very Soft, SHALE (Visual) Continued on next pag	e	+ + 69.0 -	SS-16	12 17 22	39	83			
	BORING HSA - Hollow SFA - Solid F RC - Rock C MD - Mud D WD - Wash HA - Hand A	G METH V Stem J Flight Au Coring Drilling Drilling Auger	IOD Auger uger	SS ST CR BS AC	SAMPLI Split Shelt Rock Bag S Auge	ING ME Spoon by Tube Core S Sample r Cuttir	THOD Sample Sample Sample	e * le LL PL PI SP	ABB - Han - Liqu - Plas - Plas T - Star Pen	REVIAT Id Pene Id Limi Itic Limi Iticity I Iticity I Idard etratio	FIONS etrome it it ndex <u>n Test</u>	eter				BORII HSA Hollo SFA Solid RC Rock MD Mud WD Wasi HA Hanc	NG METH w Stem , Flight Ai Coring Drilling n Drilling I Auger	OD Auger Jger	SS - ST - CR - BS - AC -	AMPLI Split Shelb Rock Bag S Augei	NG ME Spoon y Tube Core S Sample r Cuttir	THOD Sample Samp Sample	e * le LL PL PI SP	

		<b>TD 0</b>				T	EST E	BOR	ING	RECO	ORD					_	то	n	
3		)F	4	PROJEC	т	Bridge Replacement Str. No.: 057-14-000000							-	SHEET	G NU.	: 4	C	- <u>5</u> )F	4
Unconfined Compression (ksf)	, LL	Atterbe Limits PL	erg PI	Stratum Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION			Stratum Depth	Sample Number	SPT per 6"	SPT per 12" (N)	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unconfined Compression (ksf)	, LL	Atterbe Limits PL	rg PI
				387.9	- - 72.5	Brown and Gray, Decomposed, Very Soft, SHALE (Visual)			73.0										
				383.9	75.0 -X	Gray, Highly Weathered, Soft, SHALE with Traces of Coal (Visual)			77.0	SS-17	30 50/5"		100						
3.243				381.9	77.5	Gray, Highly Weathered, Soft, SHALE			79.0	RC-1									
15.0%					<u>80.0</u> -	Gray, Moderately Weathered, Hard, LIMESTONE				ROD= 60%			72						
				378.9	82.5	Bottom of Boring at 82.0 feet Two attempts on SS-14 and SS-15 due to low soil recovery.	W		82.0										
					<u>85.0</u> -	Boring backfilled with soil cuttings. Pavement restored with concrete patch.													
					87.5														
					90.0														
					92.5														
400	) (T) /T A				<u>95.0</u>													TONO	
ABBF - Hand - Liqu - Plasi - Plasi - Stan Pene	KEVIAT d Pene id Limi tic Lim ticity I dard etration	IONS etrome it it ndex n Test	ter	INDOT TEST F	BORING RECO	RD 100500391ND.GPJ INDOT 4.GDT	HSA - SFA - RC - MD - WD - HA -	Hollow Solid F Rock ( Mud D Wash Hand	<u>METH</u> Stem / Flight Au Coring Drilling Drilling Auger	UD Auger Iger	SS ST CR BS AC	SAMPL Split Shelt Rock Bag S Auge	<u>NG ME</u> Spoon Oy Tub Core S Sample r Cutti	<u>= I HOD</u> Sample Sample Sample ngs	e * le LL PL PI SP	ABBI - Han - Liqu - Plas - Plas T - Star Pend	KEVIAT d Pene id Limi tic Lim ticity I dard etratio	<u>IONS</u> tromet t ndex n Test	er

3	PILE LOADING FOR	GEOTECHI	NICAL TES	TING	
		Bent No. 1	Pier No. 2	Pier No. 3	Bent No. 4
	Pile Size, Type, and Grade	HP 12 x 53 Grade 50 ksi	HP 12 x 74 Grade 50 ksi	HP 12 x 74 Grade 50 ksi	HP 12 x 53 Grade 50 ksi
	Factored Design Load, Qf (kip)	160	270	270	160
	Factored Design Soil Resistance, Rr (kip)	160	270	270	160
	Resistance Factor	0.7	0.7	0.7	0.7
	Downdrag Load, DD (kip), Due to Embankment Fill	62	0	0	62
	Downdrag Load, D (kip), Due to Liquefaction	46	22	22	46
	Nominal Soil Resistance, Rn (kip)	353	430	430	353
	Downdrag Friction, Rs (kip)	62	22	22	62
	Scour Zone Friction, Rn (kip)	0	0	0	0
	Relaxation of Tip in Shale (kip)	50	100	100	50
	Nominal Driving Resistance, Rndr (kip)	465	552	552	465
	Estimated Pile Tip Elevation (Minimum)	378	375	375	378
	Testing Method	PDA - ISS 70	1.05(b)		

Typ. Table: Table Title: 18 Pt Text

Table Data: 12 Pt Text

4

NOTE

1. N indicates the number of blows required to drive a 1%" I.D, 1" O.D. Split-Spoon Sampler 6" by means of a 140-lb weight falling 30".

	SCALE	BRIDGE FILE
INDIANA	AS NOTED	057-14-000000
DEPARTMENT OF TRANSPORTATION		DESIGNATION
		9999999
		SHEET
		SHEET 7 of 31
SOIL BORINGS	CONTRACT	SHEET 7 of 31 PROJECT



The purpose of the General Plan is to show necessary information to proceed with the final detail drawings.





	Typ. Table:
5	Table Title: 18 Pt Text
	Table Data: 12 Pt Text

TOP OF PILE ELEVATIONS								
1 2 3 4 5								
Bent No. 1	461.39	461.58	461.72	461.51	461.30			
Bent No. 4         461.54         461.74         461.94         461.76         461.58								

# **REQUIRED ELEMENTS:**

(1) Plan End Bent Plan Piling Plan Footing Plan

## (2) North Arrow

- (3) Elevation Showing Reinforcing
- (4) Sections as Necessary
- (5) Table of Top of Pile Elevations (Method A Attachment) or Table of Beam Seat Elevations (Method B Attachment)

(6) Notes

6

(7) Signature Block and PE Seal

NOTES

1. For Section A-A, Section B-B, and Section C-C, see

- Drawing C4 2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- All reinforcing bars in end bents shall be epoxy-coated.
   All reinforcement extending below pavement ledge and in the wing is billed with the end bent.
- 5. Concrete Class C is billed with the superstructure. 6. For Backfill Placement, see Standard Drawing
- E 211-BFIL-04.

	SCALE	BRIDGE FILE		
INDIANA	AS NOTED	057-14-000000		
DEPARTMENT OF TRANSPORTATION		DESIGNATION		
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	DRAWING	SHEET		
	C3 of C14	10 of 31		
ND DENT NO. I AND NO. 4 DETAILS	CONTRACT	PROJECT		
	B-99999	9999999		

The purpose of this End Bent Details sheet is to show additional details necessary for construction and Bill of Materials for end bent(s).



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BILL OF MATERIALS FOR END BENT NO. 1									
(END	(END BENT NO. 4 SAME UNLESS NOTED)								
	EPOXY-COAT	ED REINFORCING BARS							
SIZE &	NO. OF	LENGTH	WEIGHT						
MARK	BARS	(FT - IN.)	(LB)						
801	6	11' - 0"							
802	6	10' - 2"							
	•	Total #8	339						
#7	26	22' - 2"							
#7	12	8' - 3"							
#7	5	1' - 6"							
		Total #7	1396						
601	40	14' - 2"							
602	10	10' - 6"							
603	56	6' - 9"							
#6	28	7' - 8"							
#6	36	5' - 5"							
#6	8	8' - 11"							
#6	6	5' - 4"							
#6	4	5' - 0"							
		Total #6	2467						
	1								
401	92	4' - 0"							
402	12	4' - 2"							
403	5	69' - 6"							
		l otal #4	511						
Total Epoxy-0	Total Epoxy-Coated Reinforcing Bars 4713								
	MI	SCELLANEOUS							
Pile, Steel H-	Pile 12 x 53, 5	@ 84'-0" (Bent No. 1)	420 Lft						
Pile, Steel H-	Pile 12 x 53, 4	@ 78'-0" (Bent No. 4)	312 Lft						
Pile Shoe, 10	(Steel H-Pile 1	.2 x 53)	5 Ea						
Test Pile, Dyr	namic, Producti	ion, 1 @ 88 Lft (Bent No. 4)	88 Lft						
Dynamic Pile	1 Each								

When the construction is to be phased, Bills of Materials should be separated by phase.

6

<b>REQUIRED ELEMENTS:</b>
1 End Bent Section Between Beams
2 End Bent Section Through Beam
3 Wing Elevation
$\frown$

1 Each

- (4) Wing Section
- (5) Reinforcing Bar Bending Diagrams
- (6) Bill of Materials
- (7) Anchor Plate Detail When Required
- 8 Notes

Test Pile, Dynamic, Restrike (Bent No. 4)

(9) Signature Block and PE Seal

# NOTES

8

1. For End Bent Plan and Elevation, locations of Section A-A, Section B-B, and Section C-C, see Drawing C3.

- 2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- All reinforcing bars in end bents shall be epoxy-coated.
   All reinforcement extending below pavement ledge and in the wing is billed with the end bent.
- 5. Concrete Class C is billed with the superstructure.
- 6. For Pavement Ledge Details, see Drawing C14. 7. For Backfill Placement, see Standard Drawing
- E 211-BFIL-04.

	SCALE	BRIDGE FILE		
INDIANA	AS NOTED	057-14-000000		
DEPARTMENT OF TRANSPORTATION		DESIGNATION		
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	DRAWING	SHEET		
	C4 of C14	11 of 31		
ND DENT NO. I AND NO. 4 DETAILS	CONTRACT	PROJECT		
	B-99999	9999999		
	6 55555			

The purpose of this Pier Details sheet is to show the pier dimensions, reinforcement, and pertinent information necessary for construction.



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	SCALE			BRIDGE FILE		
INDIANA DEPARTMENT OF TRANSPORTATION	AS NOTED			057-14-000000		
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PIER NO. 2 AND NO. 3 DETAILS	C5	DRAWING of CONTRACT	C14	12	SHEET of PROJECT	31



The purpose of this Pier Details sheet is to show additional details necessary for construction and Bill of Materials for piers.



$\frown$	
6)	

# BILL OF MATERIALS FOR PIER NO. 2

REINFORCING BARS           SIZE & MARK         NO. OF BARS         LENGTH (FT - IN.)         WEIGHT (LB)           #8         186         20' - 4"         (LB)           #8         186         20' - 4"         10098           630         8         10' - 0"         631           631         32         2' - 8"         10'           #6         24         24' - 8"         1231           #6         4         15' - 6"         1231           #6         4         8' - 6"         1231           530         805         3' - 1"         531           531         64         8' - 6"         1231           #5         128         23' - 7"         10098           #31         176         7' - 1"         1009           #43         8         4' - 6"         1109           #4         8         2' - 2"         1109           Total #4         1109         15.0 Cys           Concrete Class "A" in Column         75.0 Cys         18743           Concrete Class "A" in Column         75.0 Cys         6.0 Cys           Total #4         15.0 Cys         6.0 Cys           Concrete	(PIER NO. 3 SAME UNLESS NOTED)						
SIZE & MARK         NO. OF BARS         LENGTH (FT - IN.)         WEIGHT (LB)           #8         186         20' - 4"         Total #8         10098           630         8         10' - 0"         10098           631         32         2' - 8"         10098           #6         24         24' - 8"         10098           #6         24         24' - 8"         10098           #6         4         15' - 6"         1231           530         805         3' - 1"         1231           530         805         3' - 1"         6305           #5         128         23' - 7"         10098           430         88         4' - 6"         431           476         7' - 1"         1009           430         88         4' - 6"         1109           Total #4         1109         1109         1009           Total #4         8         2' - 2"         1109           CONCRETE         Concrete Class "A" in Cap         15.0 Cys           Concrete Class "A" in Column         75.0 Cys         18743           Concrete Class "A" in Column         75.0 Cys         1000000000000000000000000000000000000	REINFORCING BARS						
MARK         BARS         (FT - IN.)         (LB)           #8         186         20' - 4"         Total #8         10098           630         8         10' - 0"         10098         10098           631         32         2' - 8"         10098         10098           #6         24         24' - 8"         10098         10098           #6         24         24' - 8"         10098         10098           #6         4         15' - 6"         1231         10098           #6         4         15' - 6"         1231         1231           530         805         3' - 1"         1231         1231           531         64         8' - 6"         1231         1109           #430         88         4' - 6"         1109         1109           #431         176         7' - 1"         1109         1109           Total #4         8         2' - 2"         18743         1109           Total Reinforcing Bars         18743         18743         18743           Concrete Class "A" in Cap         15.0 Cys         15.0 Cys           Concrete Class "A" in Column         75.0 Cys         6.0 Cys	SIZE &	NO. OF	LENGTH	WEIGHT			
#8         186         20' - 4"         Total #8         10098           630         8         10' - 0"         10098           631         32         2' - 8"         10' - 0"           631         32         2' - 8"         10' - 0"           631         32         2' - 8"         10' - 0"           #6         24         24' - 8"         10' - 0"           #6         4         15' - 6"         1231           530         805         3' - 1"         1231           531         64         8' - 6"         1231           #5         128         23' - 7"         10098           430         88         4' - 6"         431           431         176         7' - 1"         109           Total #4         8         2' - 2"         1109           Total #4         1109           Concrete Class "A" in Column         75.0 Cys <td colsp<="" td=""><td>MARK</td><td>BARS</td><td>(FT - IN.)</td><td>(LB)</td></td>	<td>MARK</td> <td>BARS</td> <td>(FT - IN.)</td> <td>(LB)</td>	MARK	BARS	(FT - IN.)	(LB)		
Total #8         10098           630         8         10' - 0"           631         32         2' - 8"           #6         24         24' - 8"           #6         4         15' - 6"           #6         4         15' - 6"           530         805         3' - 1"           531         64         8' - 6"           #5         128         23' - 7"           Total #5           6305           430         88         4' - 6"           431         176         7' - 1"           #4         8         2' - 2"           Total #4           109         Total #4           Goncrete Class "A" in Column           Total Column           Total Class "A" concrete           Goncrete Class "A" in Column <td< td=""><td>#8</td><td>186</td><td>20' - 4"</td><td></td></td<>	#8	186	20' - 4"				
630       8 $10' - 0"$ 631       32 $2' - 8"$ #6       24 $24' - 8"$ #6       4 $15' - 6"$ #6       4 $15' - 6"$ #6       4 $15' - 6"$ #5       128 $23' - 1"$ 530       805 $3' - 1"$ 531       64 $8' - 6"$ #5       128 $23' - 7"$ Total #5         6305         430       88 $4' - 6"$ 431       176 $7' - 1"$ #4       8 $2' - 2"$ Total #4         1109         Total #4         1109         Total #4         Total Reinforcing Bars         IS.0 Cys         CONCRETE         Concrete Class "A" in Column       75.0 Cys         Cotal Class "A" concrete       96.0 Cys         Concrete Class "A" in Column       75.0 Cys         Cotal Class "A" concrete       96.0 Cys         MISCELLANEOUS			Total #8	10098			
630         8         10' - 0"           631         32         2' - 8"           #6         24         24' - 8"           #6         4         15' - 6"           #6         4         15' - 6"           #5         128         23' - 7"           531         64         8' - 6"           #5         128         23' - 7"           430         88         4' - 6"           431         176         7' - 1"           #4         8         2' - 2"           Total #4         1109           Total Reinforcing Bars         Total #4         1109           CONCRETE         CONCRETE           Concrete Class "A" in Cap         15.0 Cys           Concrete Class "A" in Column         75.0 Cys           Total Class "A" concrete         96.0 Cys           Concrete Class "A" in Column         75.0 Cys           Concrete Class "B" in Footings         6.0 Cys           Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         490 Lft							
631         32         2' - 8"           #6         24         24' - 8"           #6         4         15' - 6"           #6         4         15' - 6"           Total #6         1231           530         805         3' - 1"           531         64         8' - 6"           #5         128         23' - 7"           430         88         4' - 6"           431         176         7' - 1"           #4         8         2' - 2"           Total #4         1109           Total #4           1109           CONCRETE           Concrete Class "A" in Cap         15.0 Cys           Concrete Class "A" in Column         75.0 Cys           Total Class "A" concrete         96.0 Cys           MISCELLANEOUS           Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)           96.0 Cys         6.0 Cys           Concrete Class "A" in Column           75.0 Cys           Total Class "A" concrete         96.0 Cys           Concrete Class "B" in Footings         6.0 Cys           MISCELLANEOUS	630	8	10' - 0"				
#6       24       24' - 8"         #6       4       15' - 6"         Total #6       1231         530       805       3' - 1"         531       64       8' - 6"         #5       128       23' - 7"         #5       128       23' - 7"         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4       1109         Total #4         109       Total #4         CONCRETE         Concrete Class "A" in Cap       15.0 Cys         Concrete Class "A" in Column         75.0 Cys         Total Class "A" in Column       75.0 Cys         Total Class "A" in Column         Concrete Class "A" in Column         Total Class "A" in Footings         MISCELLANEOUS         Output Class "A" in Footings         Goncrete Class "B" in Footings         Goncrete Class "B" in Footings	631	32	2' - 8"				
#6       4       15' - 6"         Total #6       1231         530       805       3' - 1"         531       64       8' - 6"         #5       128       23' - 7"         #5       128       23' - 7"         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4       1109         Total #4         1109       Total #4         Total #4         1109       1109         CONCRETE         Concrete Class "A" in Cap         Total #4         Total #4         Total Reinforcing Bars         Total #4         Total #4         Total Reinforcing Bars         CONCRETE         Concrete Class "A" in Column       75.0 Cys         Total Class "A" concrete       96.0 Cys         Concrete Class "B" in Footings       6.0 Cys         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         HIS.0 C, 8 (Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2	#6	24	24' - 8"				
Total #6         1231           530         805         3' - 1"           531         64         8' - 6"           #5         128         23' - 7"           Total #5         6305           430         88         4' - 6"           431         176         7' - 1"           #4         8         2' - 2"           Total #4         1109           Total #4           109         Total #4           Total #4           1109         Total #4           CONCRETE           CONCRETE           Concrete Class "A" in Cap         15.0 Cys           Concrete Class "A" in Column         75.0 Cys           Total Class "A" Concrete         96.0 Cys           Concrete Class "A" in Footings         6.0 Cys           Concrete Class "B" in Footings         6.0 Cys           MISCELLANEOUS           Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)           Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)         560 Lft           Pile Shoe, 8 (Steel H-Pile 12 x 74)         8 Ea           Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)         80 Lft           Dynamic Pile Lo	#6	4	15' - 6"				
530       805       3' - 1"         531       64       8' - 6"         #5       128       23' - 7"         Total #5         6305         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         440       8       2' - 2"         #4       8       2' - 2"         Total #4       1109         Total #4         109       18743         CONCRETE         Concrete Class "A" in Cap         CONCRETE         Concrete Class "A" in Column         75.0 Cys         Total Class "A" concrete       96.0 Cys         Concrete Class "A" in Footings       6.0 Cys         MISCELLANEOUS         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         490 Lft         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)       560 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)         Dynamic Pile Load Test (Pier No. 2)       1 Each<			Total #6	1231			
530       805       3' - 1"         531       64       8' - 6"         #5       128       23' - 7"         Total #5         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4         109         Total #4         Total #4         1109         Total #4         Total #4         18743         CONCRETE         Concrete Class "A" in Cap         Concrete Class "A" in Column         75.0 Cys         Concrete Class "A" in Column       75.0 Cys         Concrete Class "A" in Column       75.0 Cys         Concrete Class "A" in Footings       6.0 Cys         MISCELLANEOUS         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         490 Lft         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)         96.0 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @							
531       64       8' - 6"         #5       128       23' - 7"         Total #5       6305         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4         #4       8       2' - 2"         Total Reinforcing Bars       18743         Total #4         Total #4         Total #4         Total #4         Total #4         Total #4         Total Reinforcing Bars         Total #4         CONCRETE         Concrete Class "A" in Column       75.0 Cys         Total Class "A" concrete       96.0 Cys         Concrete Class "A" in Column         Total Class "A" concrete         MISCELLANEOUS         Concrete Class "B" in Footings         Go Cys         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         490 Lft         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)       490 Lft <td< td=""><td>530</td><td>805</td><td>3' - 1"</td><td></td></td<>	530	805	3' - 1"				
#5       128       23' - 7"         Total #5       6305         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         #4       8       2' - 2"         Total #4       1109         Total #4         1109         CONCRETE         CONCRETE         Concrete Class "A" in Cap       15.0 Cys         Concrete Class "A" in Column       75.0 Cys         Total Class "A" concrete       96.0 Cys         Concrete Class "A" in Column       75.0 Cys         Concrete Class "A" in Column       75.0 Cys         Concrete Class "A" in Column       75.0 Cys         Concrete Class "A" in Column       6.0 Cys         Concrete Class "A" in Column       6.0 Cys         MISCELLANEOUS       6.0 Cys         MISCELLANEOUS       96.0 Cys         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)       490 Lft         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)       490 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)       80 Lft         Dynamic Pile Load Test (Pier No. 2)	531	64	8' - 6"				
Total #5       6305         430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4       1109         Total #4         1109         Total #4         1109         Total #4         1109         Total #4         Total Reinforcing Bars         Total Class "A" in Cap         CONCRETE         Concrete Class "A" in Column       75.0 Cys         Total Class "A" concrete         Goncrete Class "A" in Column         Total Class "A" concrete         MISCELLANEOUS         Origon (Pier No. 2)         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         MISCELLANEOUS	#5	128	23' - 7"				
430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4       1109         Total #4         Total #4         1109         Total #4         Total Class "A" in Cap         CONCRETE         Concrete Class "A" in Column         Total Class "A" concrete         Officient Class "A" in Column         Total Class "A" concrete         Officient Class "A" in Column         Total Class "A" concrete         Officient Class "A" in Column         Concrete Class "B" in Footings         Officient Class "A" concrete         MISCELLANEOUS <td< td=""><td></td><td></td><td>Total #5</td><td>6305</td></td<>			Total #5	6305			
430       88       4' - 6"         431       176       7' - 1"         #4       8       2' - 2"         Total #4         #4       8       2' - 2"         Total #4       1109         Concrete Class "A" in Cap       18743         Concrete Class "A" in Column       75.0 Cys         Total Class "A" Concrete       96.0 Cys       96.0 Cys         Concrete Class "B" in Footings       6.0 Cys       6.0 Cys         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)       490 Lft         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)       490 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)       80 Lft         Dynamic Pile Load Test (Pier No. 2)       1 Each							
431       176       7' - 1"         #4       8       2' - 2"         Total #4         1109         Total #4         Total Reinforcing Bars         Total Reinforcing Bars         CONCRETE         Concrete Class "A" in Column         75.0 Cys         Total Class "A" concrete         96.0 Cys         Concrete Class "A" in Footings         Goncrete Class "B" in Footings         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         490 Lft         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)       490 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)         Dynamic, Restrike (Pier No. 2)         1 Each <td>430</td> <td>88</td> <td>4' - 6"</td> <td></td>	430	88	4' - 6"				
#4       8       2' - 2"         Total #4       1109         Total #4       1109         Total #4       1109         Total Reinforcing Bars       18743         CONCRETE         Concrete Class "A" in Cap       15.0 Cys         Concrete Class "A" in Column       75.0 Cys         Total Class "A" Concrete       96.0 Cys         Concrete Class "B" in Footings       6.0 Cys         MISCELLANEOUS         Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)         Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)         S60 Lft         Pile Shoe, 8 (Steel H-Pile 12 x 74)       8 Ea         Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)         Dynamic Pile Load Test (Pier No. 2)         I Each         Test Pile, Dynamic, Restrike (Pier No. 2)	431	176	7' - 1"				
Total #41109Total Reinforcing Bars18743CONCRETEConcrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	#4	8	2' - 2"				
Total Reinforcing Bars18743CONCRETEConcrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each			Total #4	1109			
Total Reinforcing Bars18/43CONCRETEConcrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each							
CONCRETEConcrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Total Reinford		18/43				
CONCRETEConcrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each			CONCRETE				
Concrete Class "A" in Cap15.0 CysConcrete Class "A" in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)490 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Consulta			15.0.0.0			
Concrete Class A in Column75.0 CysTotal Class "A" Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Concrete	Class A III Ca	p Iuma	15.0 Cys			
Total Class A Concrete96.0 CysConcrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each		LIASS A IN CO	lumn	75.0 Cys			
Concrete Class "B" in Footings6.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	TOLAI CIASS F	Concrete		96.0 Cys			
Output de class B in Poolings0.0 CysMISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Concroto Clac	c "P" in Eastin	ac.	6.0.00			
MISCELLANEOUSPile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each		0.0 Cys					
Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)490 LftPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each		MI					
Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 2)490 EltPile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)560 LftPile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Dila Staal H-I	@ 70'-0" (Pier No. 2)	400 l ft				
Pile Shoe, 8 (Steel H-Pile 12 x 74)8 EaTest Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	$\frac{110 12 \times 77, 7}{110 12 \times 74}$	$\bigcirc 70'-0''$ (Pier No. 2)	560 LIL			
Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)80 LftDynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Each	Pile Shoe & (		x 74)	200 LIL & Fa			
Dynamic Pile Load Test (Pier No. 2)1 EachTest Pile, Dynamic, Restrike (Pier No. 2)1 Fach	Test Pile Dvr	amic Producti	on 1 @ 80   ft (Pier No 2)	80 L th			
Test Pile, Dynamic, Restrike (Pier No. 2)	Dynamic Pile	Load Test (Pie	r No 2)	1 Fach			
	Test Pile Dvr	amic. Restrike	(Pier No. 2)	1 Fach			





For General Notes, see Drawing C2.
 For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.

	SCALE			BRIDGE FILE		
DEPARTMENT OF TRANSPORTATION	AS NOTED			057-14-000000		
			DESIGNATION			
					9999999	
		DRAWING			SHEET	
	C6	of	C14	13	of	31
PIER NO. 2 AND NO. 3 DETAILS	CONTRACT			PROJECT		
	B-99999				9999999	



The purpose of this Framing Plan sheet is to provide all necessary tie-in dimensions and beam end details as required.



DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Framing Plan wc.dgn

	SCALE	BRIDGE FILE		
INDIANA	AS NOTED	057-14-000000		
DEPARTMENT OF TRANSPORTATION		DESIGNATION		
		9999999		
	DRAWING	SHEET		
	C7 of C14	14 of 31		
FRAMIING PLAN	CONTRACT	PROJECT		
	B-99999	9999999		

The purpose of this Beam Details sheet is to show the longitudinal beam information necessary for fabrication of the beams and related design data.

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Beam Details\_01.dgn




Title Block Text: Labels: 10 Pt Text Signature: 12 Pt Text

The purpose of this Beam Details sheet is to show the transverse beam dimensions and reinforcing bar information necessary for fabrication of the beams.

![](_page_16_Figure_2.jpeg)

## Typ. Table: Table Title: 18 Pt Text 9 Table Data: 12 Pt Text

TABLE OF CAMBERS (in.)							
	SPAN A & C	SPAN B					
Initial Camber	0.760	0.997					
Dead Load Deflection	0.146	0.292					
Residual Camber	0.614	0.705					

A B C D

![](_page_16_Figure_6.jpeg)

Bearing assemblies shall be included in the cost of structural members.

		SCALE		BRIDGE FILE				
INDIANA		AS NOTED		057-14-000000				
DEPARTMENT OF TRANSPORTATION				D	ESIGNATIO	N		
					99999999			
		DRAWING		SHEET				
DEAM DETATIC	C9	of	C14	16	of	31		
DEAM DETAILS		CONTRACT		PROJECT				
		B-99999		9999999				

The purpose of this Beam Details sheet is to show the longitudinal and section information necessary for fabrication of the beams, as well as related design data. This sheet is produced using the appropriate Standard Beam Details Sheet template drawing file.

![](_page_17_Figure_2.jpeg)

	_	
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2014		

DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Std Beam Sheets\Sht Beam Details 01 alt wc.dgn

(SEC	IUI	N A-	A)					SPAI	v (S			D-D	)	TOTAL										COUI	<b>NIS</b> ,	SPF	CING,		TEINS	210
5)6	$\overline{7}$	8	9	10	11		2	3	4	5	6	$\overline{7}$	(11)	NO.	FORCE		AA	BB	СС	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	Pl
· _	-	-	1	-	2	8	6	-	-	-	-	-	2	16	-		11	12	5'-6"	6"	-	-	-	-	12	13	12'-0"	8½"	-	-
· _	-	-	-	-	2	8	6	-	-	-	-	-	2	16	-		11	12	5'-6"	6"	-	-	-	-	16	17	16'-0"	7"	-	-
· _	-	-	-	-	2	8	6	-	-	-	-	-	2	16	-		11	12	5'-6"	6"	-	-	-	-	12	13	12'-0"	8½"	-	-
												The second s				RE F(	ecom Or ap	Mend Prov	ED EN	gineer	ı of	<i>Rec</i>	ord SIGN EN	GINEER		M	1/DD/YY DATE			[
												111111111				DE	ESIGN	ED: <u>X</u> D: <u>X</u> X	xx	N	1M/YY 1M/YY		RAWN: XX	xx xxx		M	IM/YYYY IM/YYYY			
																9	Т	itle I La Sig	Block bels: : gnatur	Fext: 10 Pt <sup>-</sup> e: 12	Text Pt Te	ext						11		

B-99999

9999999

![](_page_18_Figure_0.jpeg)

Bottom of Slab	
Top of Beam	
¾" Min. Fillet	
	I

	Typ. Table:
$\bigcirc$	Table Title: 18 Pt Text
9	Table Data: 12 Pt Text

TABLE OF CAMBERS (in.)								
SPAN A & C SPAN B								
Initial Camber	0.760	0.997						
Dead Load Deflection	0.146	0.292						
Residual Camber	0.614	0.705						

ELEVATION ALONG 🤆 OF BEAM

LATE TABLE							
А	В	С	D				
1"	1"	20"	12½"				
1"	1"	20"	12½"				
1"	1"	20"	12½"				
1"	1"	20"	12½"				

Plates shall be vulcanized to elastomeric bearings.

REC	QUIRED ELEMENTS:
1	Beam Bearing Assembly Details at End Bents
2	Beam Bearing Assembly Details at Piers
3	Taper Plate Detail (When Needed)
4	Elastomeric Bearing Pad Detail
5	Fillet Detail Including Section and Elevation
6	Camber Table
$\frown$	

(7) Notes

(8) Signature Block and PE Seal

![](_page_18_Picture_13.jpeg)

# NOTES

1. For general beam notes and design data, see Drawing C8.

2. Bearing assemblies shall be included in the cost of structural members.

		SCALE		BRIDGE FILE				
INDIANA		AS NOTED		05	57-14-00000	00		
DEPARTMENT OF TRANSPORTATION				DESIGNATION				
				9999999				
					OULEET			
		DRAWING			SHEET			
DEAM DETAILS	C9	DRAWING of	C14	16	SHEET	31		
BEAM DETAILS	C9	DRAWING of CONTRACT	C14	16	SHEET of PROJECT	31		
BEAM DETAILS	C9	DRAWING of CONTRACT B-99999	C14	16	SHEET of PROJECT 99999999	31		

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_2.jpeg)

		SCALE		BRIDGE FILE			
INDIANA	AS	S NOTED		057-14-000000			
DEPARTMENT OF TRANSPORTATION				DE	ESIGNATIO	N	
					9999999		
	Di	RAWING			SHEET		
	C10	of	C14	17	of	31	
	66			PROJECT			
		JNTRACT			PROJECT		

The purpose of these Superstructure Details sheets is to show physical dimensions and pertinent information necessary for the contractor to construct the bridge deck.

![](_page_20_Figure_2.jpeg)

DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Superstructure Details\_02 wc.dgn

CHECKED: BCD

04/2013 04/2013 CHECKED: RST

B-99999

9999999

![](_page_21_Figure_0.jpeg)

The purpose of this Railing Details sheet is to show physical dimensions, reinforcing, and pertinent information necessary for the contractor to construct the bridge railing and bridge railing transitions.

![](_page_21_Figure_2.jpeg)

DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Railing Details wc.dgn

BILL OF MATERIALS BRIDGE RAILING							
	EPOXY-COAT	ED REINFORCING BARS					
SIZE &	NO. OF	LENGTH	WEIGHT				
MARK	BARS	(FT - IN.)	(LB)				
571E	372	5' - 6"					
572E	744	3' - 0"					
#5E	64	33' - 6"					
		Total #5	6698				
Total from Ra	Total from Railing Transition Type TFC (551 Lbs x 4)2204						
Total Epoxy-(	Coated Reinford	cing Bars	8902				
		CONCRETE					
Railing Typ	e FC		23.7 Cys				
Railing Tra	nsition Type TI	-C (1.2 Cys x 4)	4.8 Cys				
Total Concret	e, Class C		28.5 Cys				
	MI	SCELLANEOUS					
Barrier Deline	ators		12 Ea				
Concrete Brid	ge Railing Tra	nsition Type TFC	4 Ea				
Surface Seal			400 Sft				

•

- 1 Railing Plan
- 2 North Arrow
- (3) Elevation(s) showing Dimensions and Reinforcing for Bridge Railing and Bridge Railing Transitions
- (4) Section(s) Showing Dimensions and Reinforcing
- (5) Reinforcing Bar Bending Details
- (6) Bill of Materials
- 7 Notes
- (8) Signature Block and PE Seal

## (7) NOTES

- 1. All reinforcing bars shall be epoxy-coated. 2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- 3. For details of Concrete Bridge Railing Transition, Type TFC, see Standard Drawings E 706-TTFC-01 through -03.
- 4. For additional details of Concrete Bridge Railing, Type FC, see Standard Drawings E 706-BRSF-01 and -03.

		SCALE		E	RIDGE FIL	E				
INDIANA		AS NOTED		057-14-000000						
DEPARTMENT OF TRANSPORTATION				DESIGNATION						
					9999999					
		DRAWING		SHEET						
	C12	of	C14	19	of	31				
KAILING DETAILS	(	CONTRACT		PROJECT						
		B-99999		9999999						

The purpose of this Screed Details sheet is to provide elevations for setting forms in order to place the floor slab and coping.

![](_page_22_Figure_2.jpeg)

DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Screed wc.dgn

DE	LEVA	FIONS	5							
7	8	9	10	11	12	13	14	15	16	17
.390	465.435	465.455	465.460	465.410	465.435	465.435	465.435	465.425	465.400	465.365
.440	465.480	465.510	465.510	465.490	465.490	465.485	465.490	465.480	465.455	465.420
.610	465.655	465.680	465.685	465.670	465.665	465.665	465.670	465.665	465.640	465.610
.790	465.835	465.865	465.870	465.860	465.855	465.855	465.865	465.860	465.840	465.805
.590	465.635	465.670	465.680	465.670	465.665	465.665	465.675	465.675	465.655	465.625
395	465.445	465.480	465.495	465.485	465.485	465.485	465.500	465.495	465.480	465.455
.340	465.395	465.430	465.440	465.435	465.435	465.435	465.450	465.450	465.435	465.405

![](_page_22_Figure_8.jpeg)

(7)

Title Block Text: Labels: 10 Pt Text Signature: 12 Pt Text

PE SEAL

Ecommended Or Approval	Engineer of R	MM/DD/YY DATE		
SIGNED: <u>ABC</u>	03/2013	DRAWN: PQR	03/2013	
IECKED: <u>BCD</u>	04/2013	CHECKED: <u>RST</u>	04/2013	

![](_page_22_Figure_13.jpeg)

![](_page_22_Figure_14.jpeg)

- allowance for concrete dead load deflections.
- 5. For General Notes, see Drawing C2.

		SCALE		BRIDGE FILE					
INDIANA		AS NOTED		057-14-000000					
DEPARTMENT OF TRANSPORTATION				D	ESIGNATIO	N			
					9999999				
		DRAWING			SHEET				
	C13	DRAWING of	C14	20	SHEET of	31			
SCREEDS	C13	DRAWING of CONTRACT	C14	20	SHEET of PROJECT	31			
SCREEDS	C13	DRAWING of CONTRACT B-99999	C14	20	SHEET of PROJECT 99999999	31			

The purpose of this Approach Slab Details sheet is to provide all necessary dimensions and reinforcing details needed to construct the bridge approach slab.

![](_page_23_Figure_2.jpeg)

	SCALE	BRIDGE FILE						
INDIANA	AS NOTED	057-14-000000						
DEPARTMENT OF TRANSPORTATION		DESIGNATION						
		9999999						
	DRAWING	SHEET						
	C14 of C14	21 of 31						
APPRUACH SLAD DETAILS	CONTRACT	PROJECT						
	B-99999	9999999						

The purpose of this Bridge Summary sheet is to summarize quantities by superstructure, substructure elements, and approach structure for the bridge.

		CONC	RETE	_			REINF.		TIE-BAR		CONC.									PILES				TES	ST PILE		CONC. STR	. MEMBERS	**
ITEM	CLASS C SUPERSTR	CLASS A SUBSTR	CLASS B ABOVE FTG.	CLASS B IN FTG.	RAILING CLASS C	REINF. BARS	BARS, EPOXY COATED	RAILING STEEL	ASSY. EPOXY COATED	DELIN- EATORS	BRIDGE RAIL TRANSITION TFC	APPROACH (SIZE)	GRADED SUBBASE	END BENT BACKFILL	GEO- TEXTILE	TERMINAL JOINT	PLATES MK-AP	ST EEL H (12 x 53)	STEEL H (12 x 74)	STEEL H EPOXY COATED	PILE SHOE (12 x 53)	PILE SHOE (12 x 74)	PRODUCTION 12 x 53	PRODUCTION	TEST PILE, DYNAMIC RESTRIKE	Cored Hole IN Rock	BOX BEAM TYPE & SIZE	I-BEAM TYPE II	SURFACE SEAL
	CYS	CYS	CYS	CYS	CYS	LBS	LBS	LFT	EACH	EACH	EACH	SYS	CYS	CYS	SYS	LFT	EACH	LFT	LFT	LFT	EACH	EACH	LFT	LFT	EACH	NO. LF	r LFT	LFT	SFT
Superstructure	323.2						47393		42																			610	7192
End Bent No. 1							4713							40.2	38			420			5								
Pier No. 2		96		6		18743													490	80		8		80	1				
Pier No. 3		96		6		18743													560	80		8							
End Bent No. 4							4713							40.2	38			312			5		88		1				
R. C. Bridge Approach (12") at End Bent No. 1							13282					252.6	20.2			79													1088
R. C. Bridge Approach (12") at End Bent No. 4							13282					252.6	20.2			79													1088
Concrete Bridge Railing, Type FC					28.5		8902			12	2																		400
TOTALS	323.2	192			28.5	37486	92285		42	12	2	505.2	40.4	80.4	76	158		732	1050	160	10	16	88	80	2			610	9768

Typ. Table:

Table Title: Text Height = 0.25"Table Data: 12 Pt Text

# **REQUIRED ELEMENTS:**

1 Summary of Bridge Quantities Table

DOTWise\Documents\Standards\Working Drawings\Structural\WChiles\Sample Plan Sheets\Bridge Project\0001250\Design\MS\Sht Bridge Summary wc.dgn

2 Signature Block and PE Seal

![](_page_24_Picture_9.jpeg)

# SUMMARY OF BRIDGE QUANTITIES

![](_page_24_Figure_11.jpeg)

	SCALE	BRIDGE FILE
INDIANA	N/A	057-14-000000
DEPARTMENT OF TRANSPORTATION		DESIGNATION
		9999999
		SHEET
		SHEET 22 of 31
BRIDGE SUMMARY	CONTRACT	SHEET 22 of 31 PROJECT

The purpose of this Road Summary sheet is to summarize quantities for the project in addition to the bridge structure itself.

										PAVE	MENT	QUANTI	TIES	AND	APPRO	ACH T	ABLE	E																
	LOCATION SR 57 Line "A"	DESCRIPTION (APPROACH TYPE OR CLASS)	HTDIW E	LENGTH LADII	DISTANCE BEYOND R/W LINE	SURFACE E DEBUGEGATE BASE SYS SYS	SYS SYS	GRAD	DE E	EXCAVATION CUT FILL CYS CYS 5848 9691	HMA FOR AF	PROACHES BYD SYD S TONS TO 2	65 330 65 330 65 330 65 330 65 330 65 330 700 18 262	HMA FO 5' 64 C' 02' 02' 2' LBS PI 165 S TONS 203	R ROADS Q VO A CO C VO C VO	INTERMED 272 272 272 272	SEAL COAT TYPE	ASPHALT MATERIAL LUCOUL AGK COUL SYS SYS 5104	COMP/ AGGREG, BASE DEF 6" TONS 1577	ACTED ATE FOR NO. 53 PTH TONS	COMPAC AGGREGA SURFACE DEPT TONS	CTED TE FOR NO.73 TH TONS	LIQUID ASPHALT SEALANT JOINT ADHESIVE SURFACE	JOINT ADHEASIVE INTERMEDIATE	SUBGRAUE SUBGRAUE SUBGRAUE SUBGRAUE SUBGRAUE SUBGRAUE SUBGRAUE SUBGRAUE	SUDGRAUE SKATREATMENT TYPE III III	REMARKS	5						
	Temporary Runaround									564 2356					317	529		3845	1315							4807								
	TOTALS									3412   12047		2	18 262	203	405 317	529		8949	2892				3963 3963	3963	4543	4807								
2	LOCATION	<b>I</b>	MANHOI	F INIFT		FLOW						DN C	0.7										LONG	ITUDINAL D	RAINS					PIPES				
	STATION 2 1445 + 89.00 End Bent No. 1	A LEFT CROSS A CROSS A	CATCH E SPEC STRUCT	BASIN, OR IALTY URE AND (PE	LFT F 60 -	UP STREAT	DOWN STREAM ELEV.	A SERVICE L SITE	DESIGNATIC	BACKFILL METHOD AAAA	CAS TOCIO	CONCRET CLASS A, F STR. STR. T INSPECTIO		ED BOX E SECTION	ND SAFETY M END SECT EA. TYPE SLOP	IETAL FION PE EA.		REMAF	RKS Drain Pipe	LT R	STATION		H     4 IN. TYPE 4       PIPE     9       H     6 IN. TYPE 4	H B IN. TYPE 4 PIPE	C FOR C LUNDERDRAINS	AT STAT	-ION 45° ELLS	Y         W         L           1         4         IN. PVC PIPI           1         6         IN. PVC PIPI           1         8         IN. PVC PIPI	B-BORROW G FOR STR. BACKFILL	HOTECTOR, HOTECTOR, TYPE A OUTLET OUTLET HOTECTOR,	HTE P HOST POST	SODDING CONNECT TO STR. NO.	REMARKS	_
	3 1447 + 11.00 End Bent No. 4	X 6	1		60													6" End Bent D	Drain Pipe															-
																																		-
3				PI	ERMAN	NENT	EROS	ION C	ONT	ROL S	JMMAR	Y TABLE	Ξ								тот	- TALS												_
	FROM STATION	TO STATION	<ul> <li>LEFT</li> <li>CROSS</li> </ul>	ACTUAL LENGTH	HD CUT OFF WALLS (8 FT EQUAL LENGTH EACH)	LFT	ENT SIDE DI OTAL EQUIV	TCH <u>ALENT PAY</u> TYPE	LENGTHS	LFT	RIPRAP RIPRAP KIPRAP KIPRAP NIFORM SUO1 SUO1		SIDE DITCHES	FOR MEDIAN S S S Y	SODDING EOK SHOULDER BREAK	Sobbing AT Sobbing AT BRIDGE CONE	K TOTAL SODDING	NURSERY SODDING FOR LAWNS	6	) <b>R</b>	<b>/W M</b> <u>STATION</u> <u>1440 + 50</u> 1440 + 50		ER TAE OFFSE +PL Ri 65' Rt.	BLE	5	<b>MON</b> STATION 1441 + 00.00	UMEN OFFSET 0.00 RT	T TABL	E IMENT De B		Typ. T Tal Tal	able: ble Title: Tex ble Data: 12	t Height = 0.25" Pt Text	
	$     \begin{array}{r}       1441 + 00 \\       1447 + 39.72 \\       1452 + 00 \\       1440 + 50 \\       1441 + 00 \\       1447 + 39.72 \\       1442 + 00 \\     \end{array} $	1445 + 60.28 $1452 + 00$ $1452 + 50$ $1441 + 00$ $1445 + 60.28$ $1452 + 00$ $1452 + 50$		460.28 460.28 50.0 25.0 25.0 460.28 460.28 460.28 50.0								6.	39.0 39.0 39.0			63	39.0 39.0 39.0				1445 + 00 $1448 + 00$ $1452 + 50$ $1452 + 50$ $1452 + 50$ $1440 + 50$ $1440 + 50$ $1445 + 00$	D       D       D       D       D       D       D       D       D       D       D	107' Rt 107' Rt 50' Rt. +PL R +PL Lt 75' Lt. 113' Lt	•		<u>1445 + 96.99</u> <u>1445+00.00</u>	21.72 LT 0.00 RT	T Benchm Typ	iark Post be B		REQUI	RED ELEN	IENTS:	:h
	Bridge Cone Riprap Drainage Turnouts										505.0 71.0	925.0 142.0				48.0 4 42.5 4	8.0				1448 + 00 1452 + 50 1452 + 50	) ) )	113' Lt 60' Lt. +PL Lt								Iab     2	e cture Data <sup>-</sup>	able	
	TOTALS										576.0	1067.0 12	278.0			90.5 13	68.5														3 Perr Tab	nanent Eros le	on Control Summ	ary
4								G	GUAR	DRAIL	SUMM	ARY TAE	BLE																		4 Gua	rdrail Summ	ary Table	
	FROM STATION	LOCATION TO STATION	LEFT MEDIAN LEFT MEDIAN RIGHT	RIGHT F STANDARD POST AT 6 FT 3 IN. SPA.	न त्र STANDARD POST AT 3 FT 1.5 IN. SPA. ह ल	EAM GUARI DOUBLE FACED AT 6 FT 3 IN. SPA.	TALLE FACED BUD BLE FACED AT 3 FT 1.5 IN. SPA.	HI SHOP CURVED AT E	NESTING GUARDRAIL	GUARDRAIL FLARE RATE M GUARDRAIL	H TYPE TGB GUARDRAIL TYPE TGB GUARDRAIL TYPE TYPE	END TREATMENT HOTE OS TYPE OS	CURVED W TERMINA SYSTEM	V-BEAM GU	ARDRAIL SYSTE CONNECTC SYSTEM TYPE E	M R CH CH CH	REMOVE	H GUARDRAIL RESET TIENUATOR	ATTENUATOR TVPE		REM	1ARKS				No be ar be no	ote: All roa een shown o nd typical lo e left off of o related qu	d summary on this samp cation only. plans for wh antities.	tables ha ple for fo Tables nich there	ave ormat may re are	<ul> <li>6 R/W</li> <li>7 Und</li> <li>8 Mail</li> <li>9 Sigr</li> </ul>	Marker Tab erdrain Tab box Approad ature Block	e, If Needed hes, If Needed hes, If Needed and PE Seal	
	$     1444 + 64.62 \\     1445 + 30.04 \\     1446 + 89.69 \\     1447 + 50.20 \\     $	$     1445 + 99.78 \\     1445 + 55.04 \\     1448 + 29.88 \\     1440 + 46.79 $	X X X	25.0							1	1				13	40																	٦
	$     \begin{array}{r}       1447 + 59.28 \\       1444 + 67.18 \\       1443 + 53.22 \\       1446 + 89.69 \\       1447 + 44.96 \\     \end{array} $	1449 + 46.78 $1445 + 99.78$ $1445 + 40.72$ $1448 + 24.93$ $1447 + 69.96$		X 187.5 X 187.5 X 25.0							1 1 1	1				1:	33										8	LT./RT.	C/L BOX STATION			WIDTH, W(FT) SINC	ASSEMBLY REQ'D	_
	TOTALS			425.0							4	4				54	43													то	TAL			_
												Title La Si	Block Tex abels: 10 ignature:	kt: Pt Text 12 Pt Te	xt	E SEAL	RECO FOR	OMMENDED APPROVAL	ngineer u	DESIG	ud GN ENGINEE	R	MM/DD/YY DATE 03/2013	[	DEPAR	INI TMENT OF	DIANA TRANSF	PORTATIO	ON		SCALE N/A		BRIDGE FILE 057-14-000000 DESIGNATION 9999999 SHEET 23 of	
DOTWise	Documents\Standards\Worki	ing Drawings\Structural\V	/Chiles\Sample	e Plan Sheets\B	Bridge Project\(	0001250\Desi	ign\MS\Sht Roa	d Summary w	vc.dgn							ununununununun	CHEC	CKED: <u>BCD</u>	04	/2013 CHE	CKED: <u>RST</u>		04/2013			KUAD S	υμιμα	КҮ			CONTRACT B-99999		PROJECT 99999999	

![](_page_25_Picture_9.jpeg)

![](_page_25_Figure_13.jpeg)

The purpose of these Cross Sections sheets is to provide earthwork calculations and all supporting information.

![](_page_26_Figure_2.jpeg)

The purpose of these Cross Sections sheets is to provide earthwork calculations and all supporting information.

![](_page_27_Figure_2.jpeg)

8