INCIDENT BRIEFING (ICS 201)

1.31

1. Incident Name:	2. Incident Number:	3. Date/Time Initiated:					
NB STH 124 Bridge Closure B-09-146		Date: 6/09/17	Time: +/- 13:00 HRS				

4. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, impacted and threatened areas, overflight results, trajectories, impacted shorelines, or other graphics depicting situational status and resource assignment):



5. Situation Summary and Health and Safety Briefing (for briefings or transfer of command): Recognize potential incident Health and Safety Hazards and develop necessary measures (remove hazard, provide personal protective equipment, warn people of the hazard) to protect responders from those hazards.

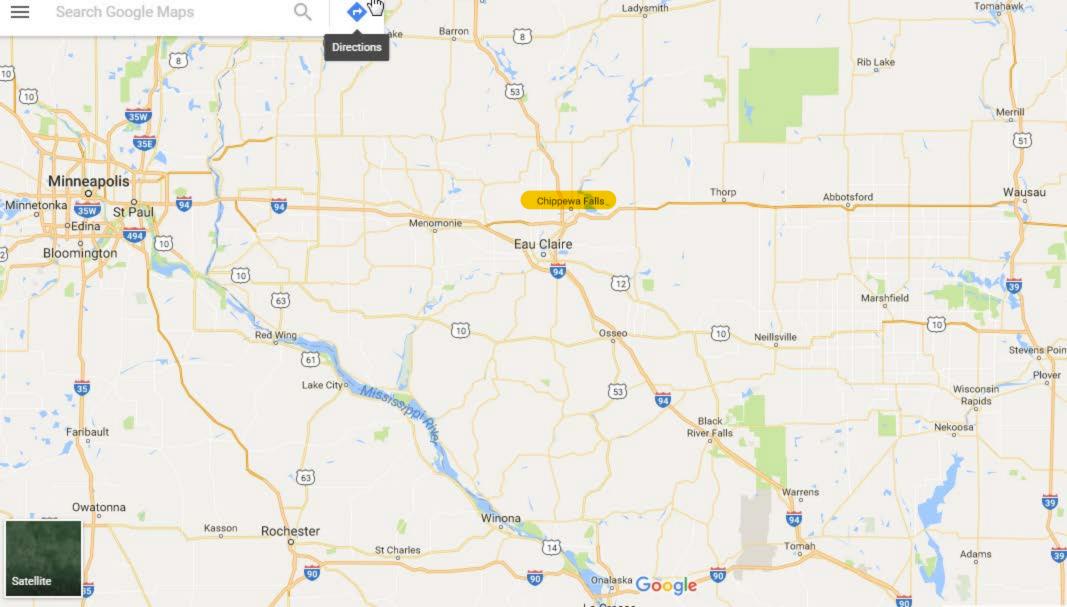
On Friday morning, June 9, 2017 after reviewing the findings from Boring number 2 from Pier 3, B-09-146, the department made a determination that the structure should be closed until such time as further analysis was completed and we are satisfied that the structure is not compromised.

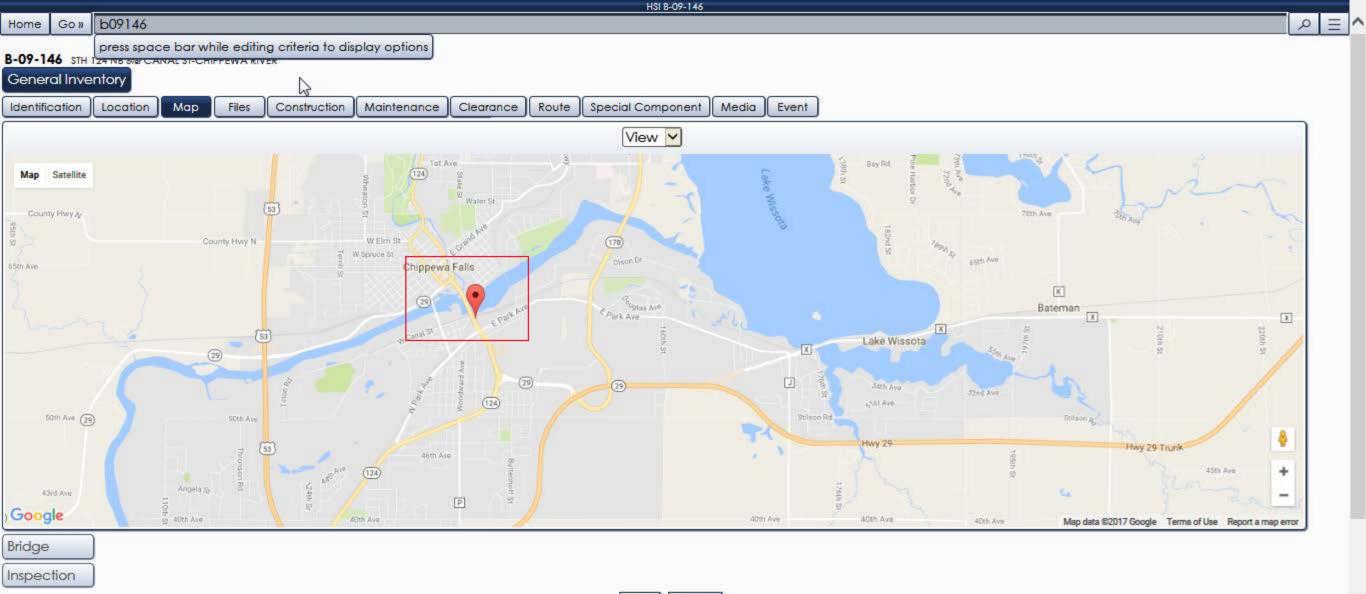
STH 124 traffic is being detoured off of the northbound bridge via local roads (River Road, Main Street, E Park Street).

SB STH 124 Bridge is currently under construction (partial deck replacement and approach slabs have been removed). The department is working with the contractor to replace the approach slabs and deck. Once the deck of the SB bridge is repaired and traffic control installed, STH 124 traffic will be rerouted to the SB bridge in a counter-directional configuration.

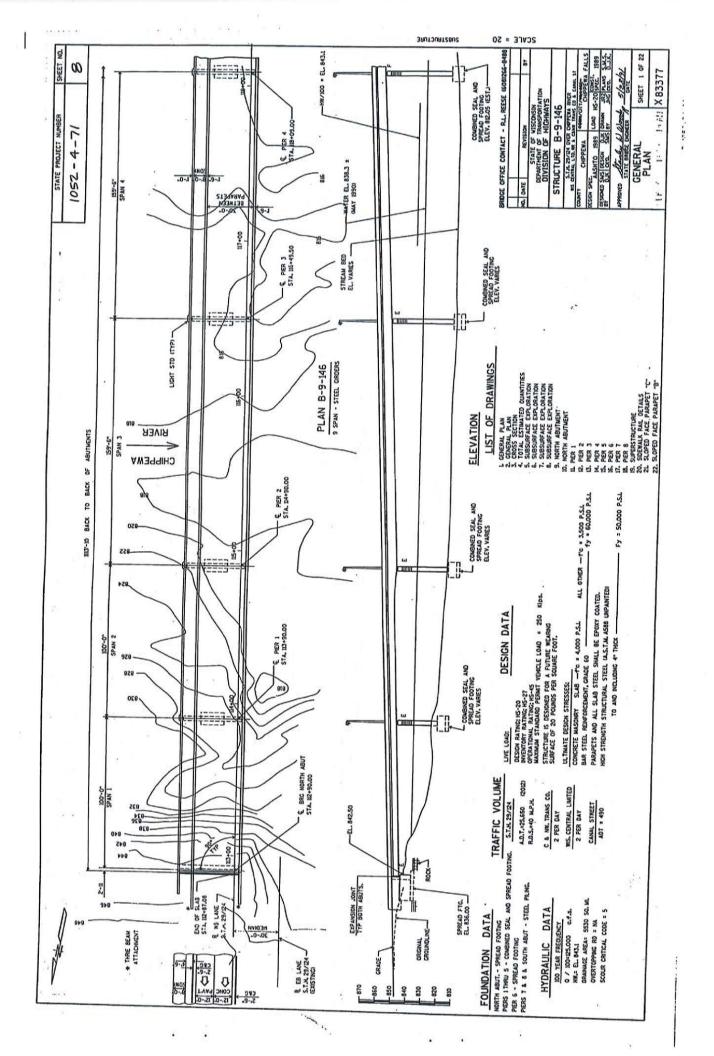
The Region will coordinate further investigations by BOS and BTS (and additional technical experts as needed) in order to provide the necessary information to make a determination on how to proceed with repairs or stabilization on the structure.

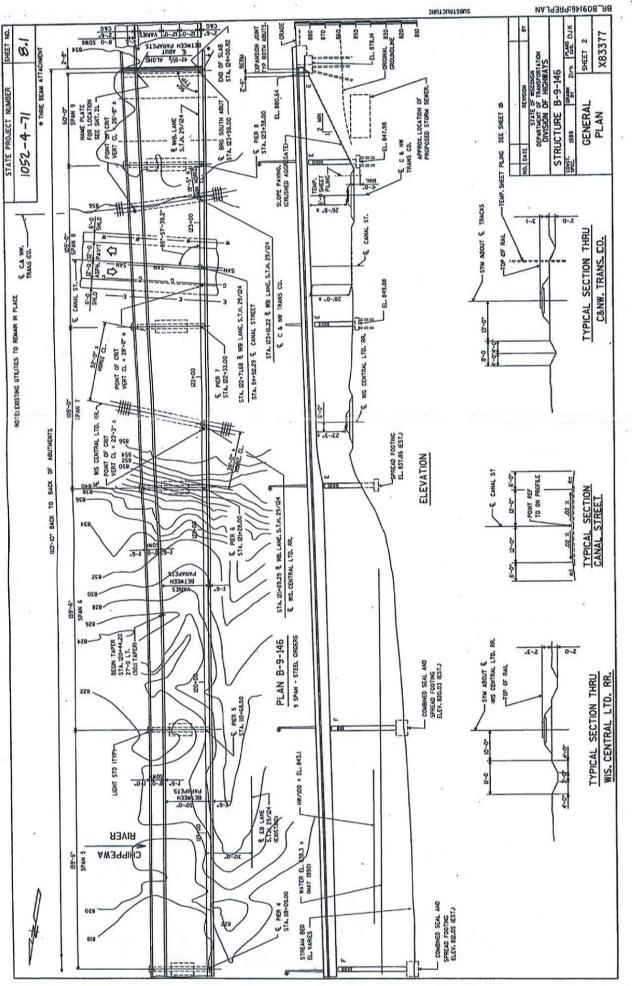
6. Prepared by: Name: Pau	L. Conlin Position/	Title: Incident Comm	nander Signature:	Paul L. Conlin Date 2017/00/12/21/22/11-05/00
ICS 201, Page 1		Date/Time: 12 Ju	ine 2017, 21:30 HRS	

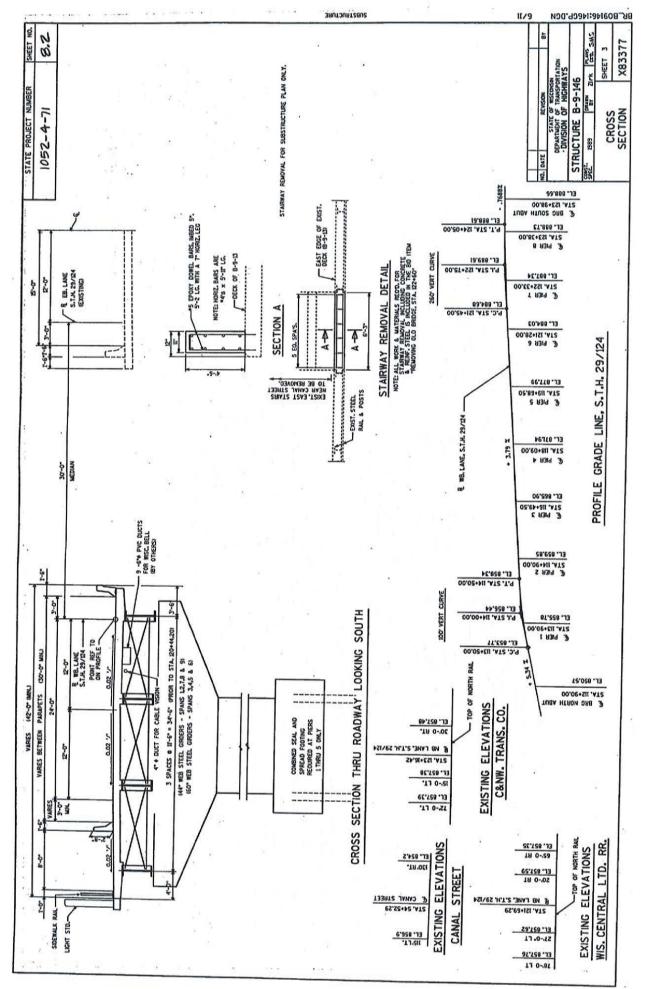




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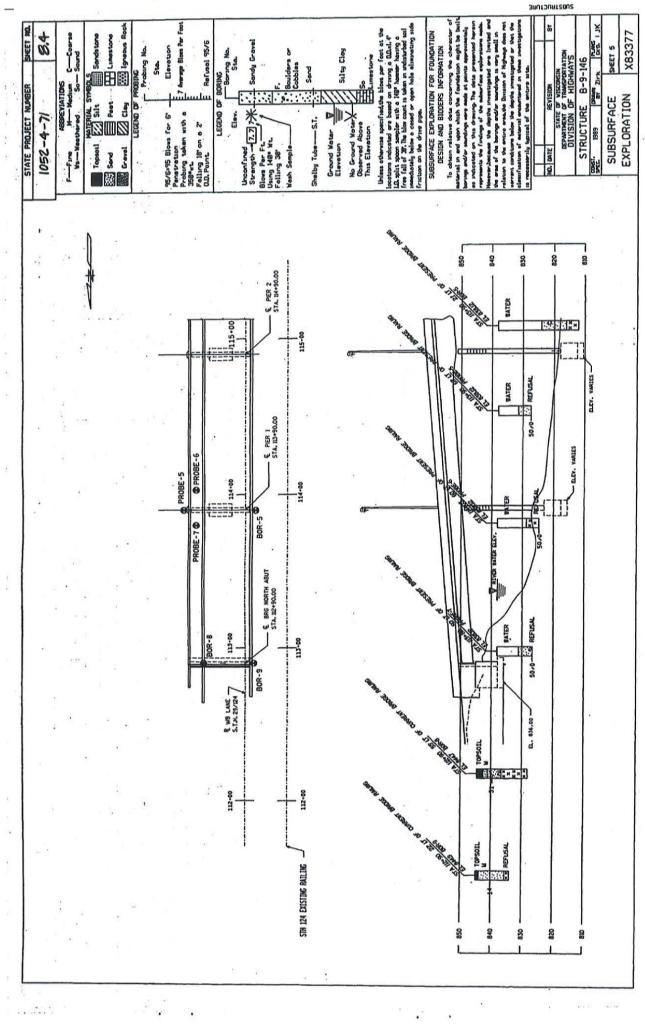


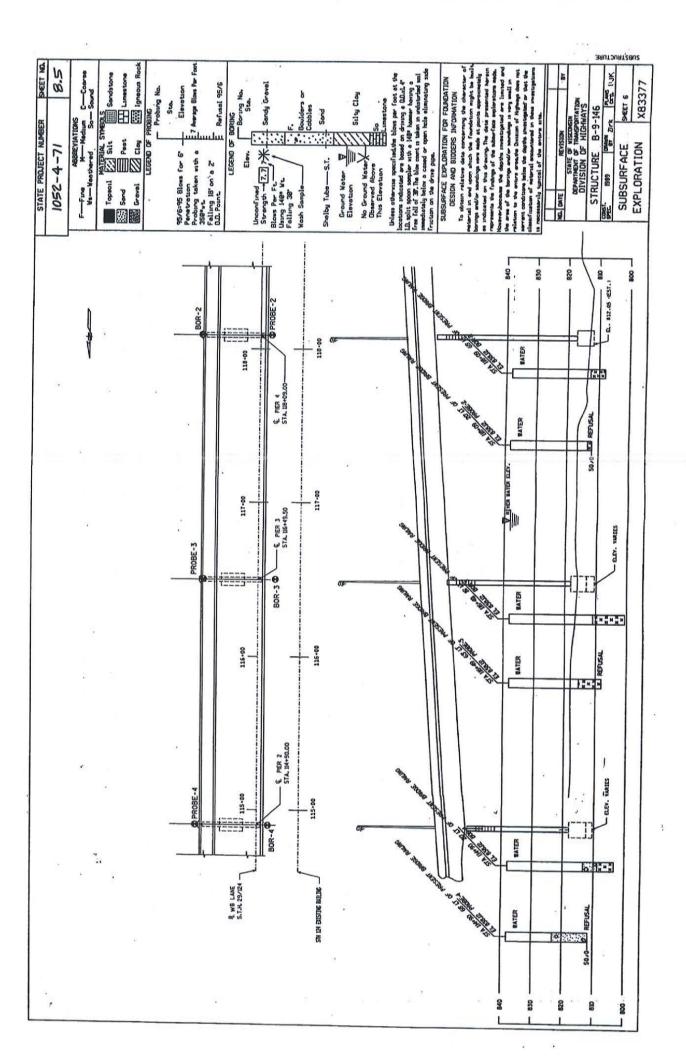


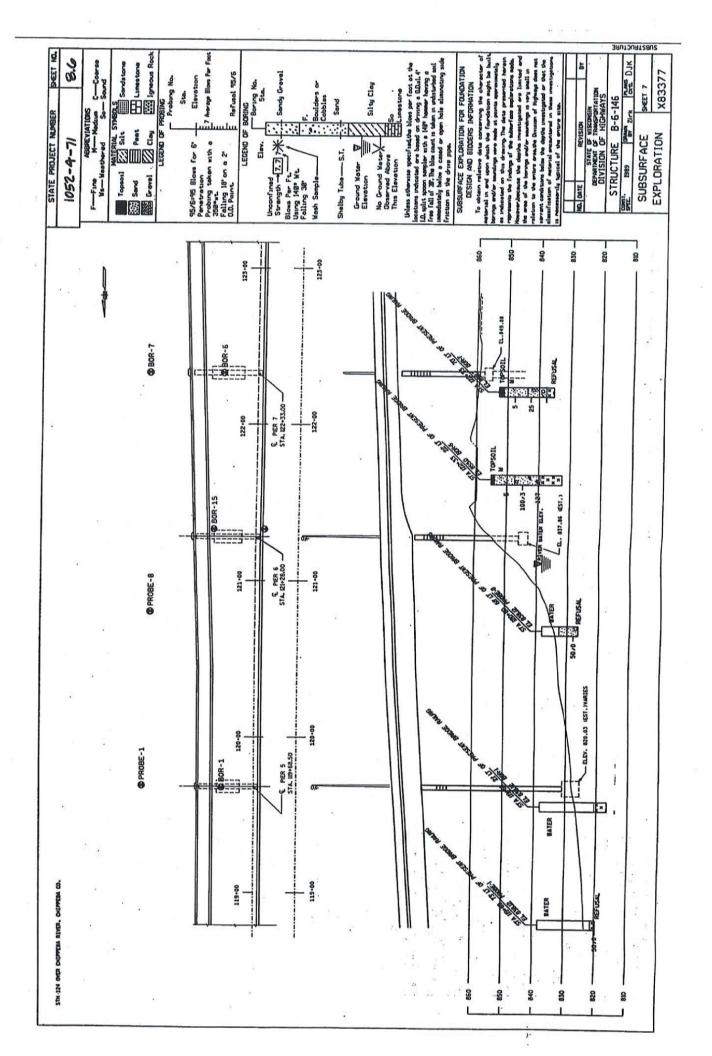


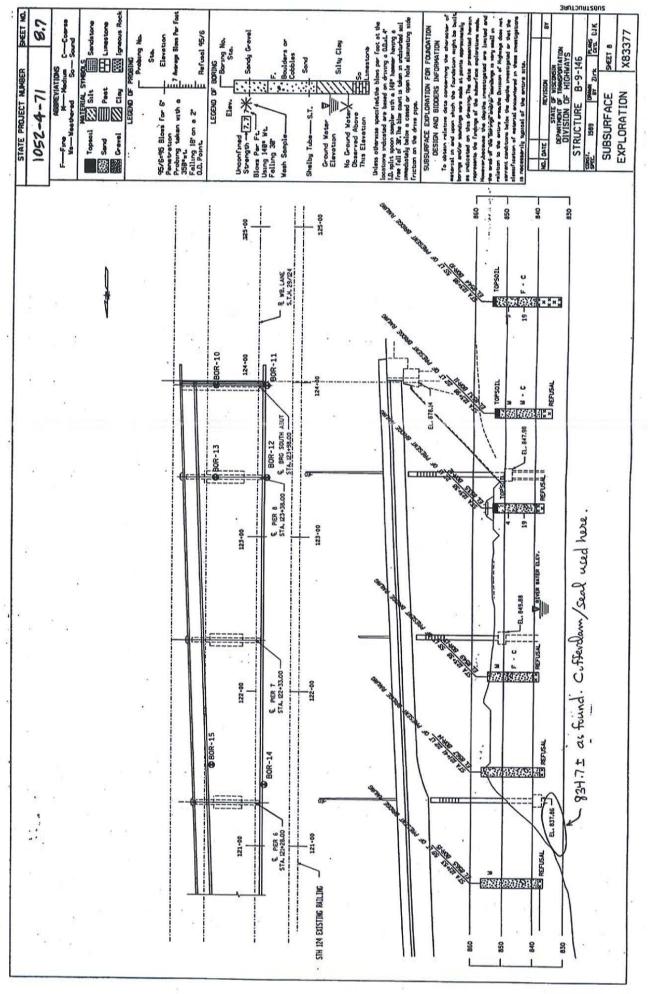
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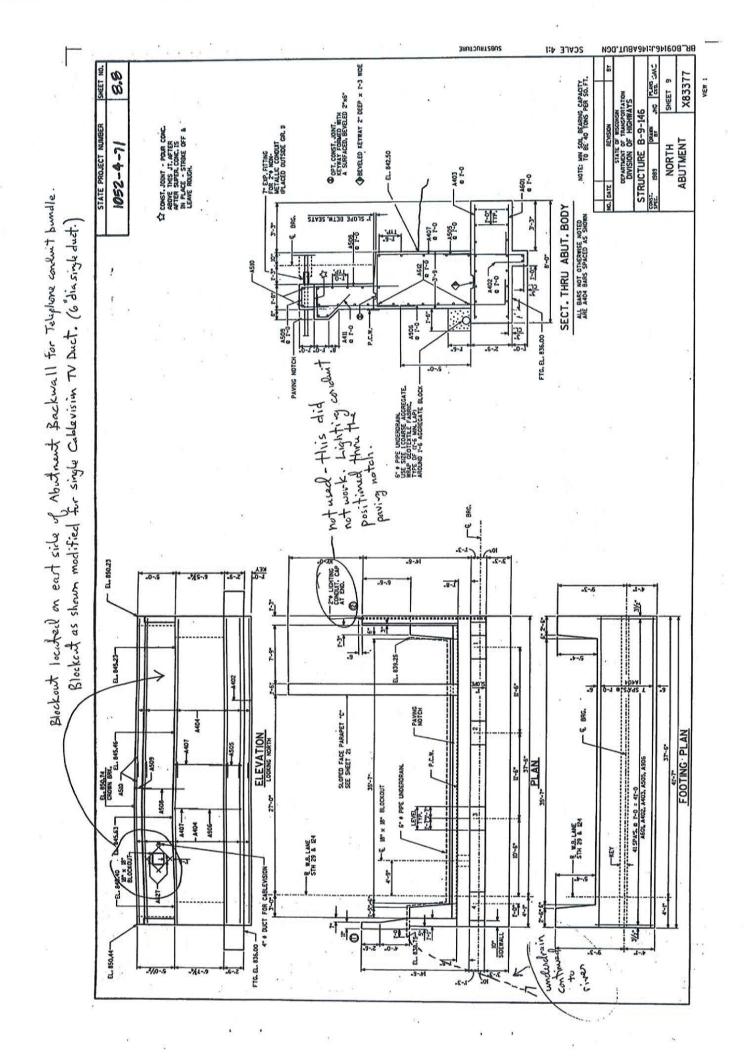
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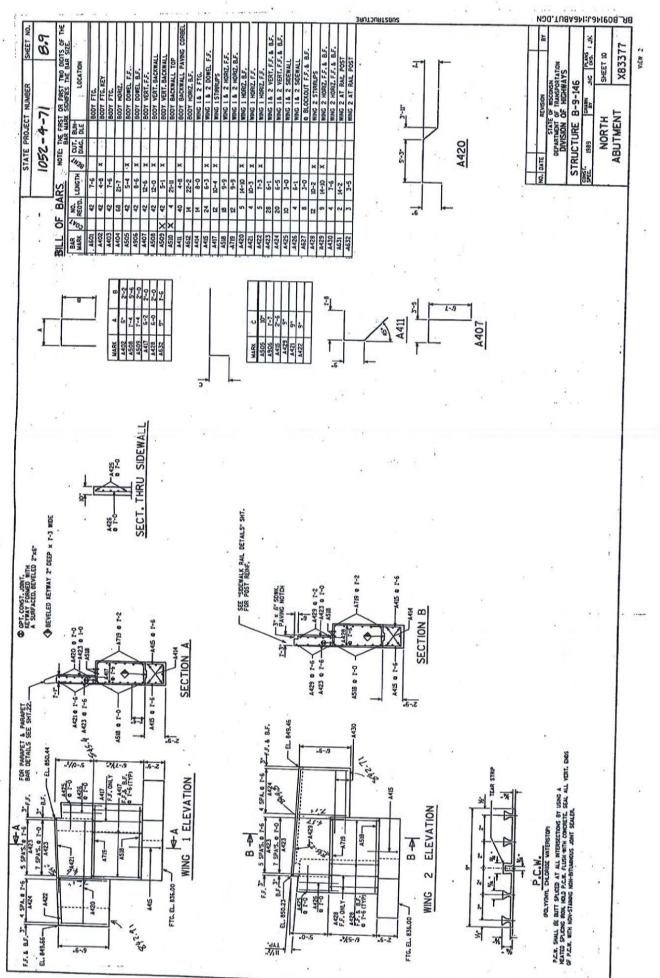


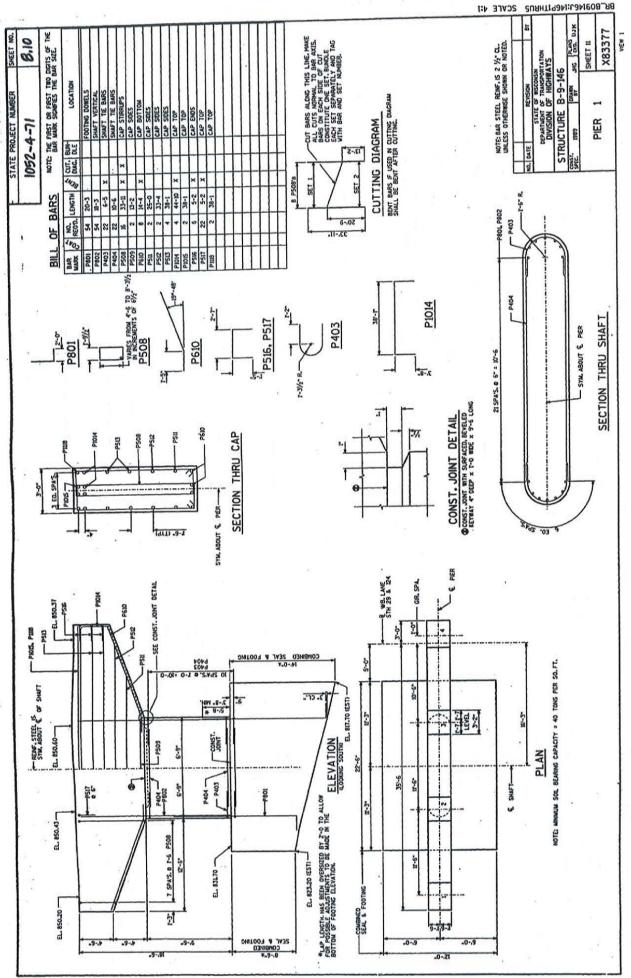




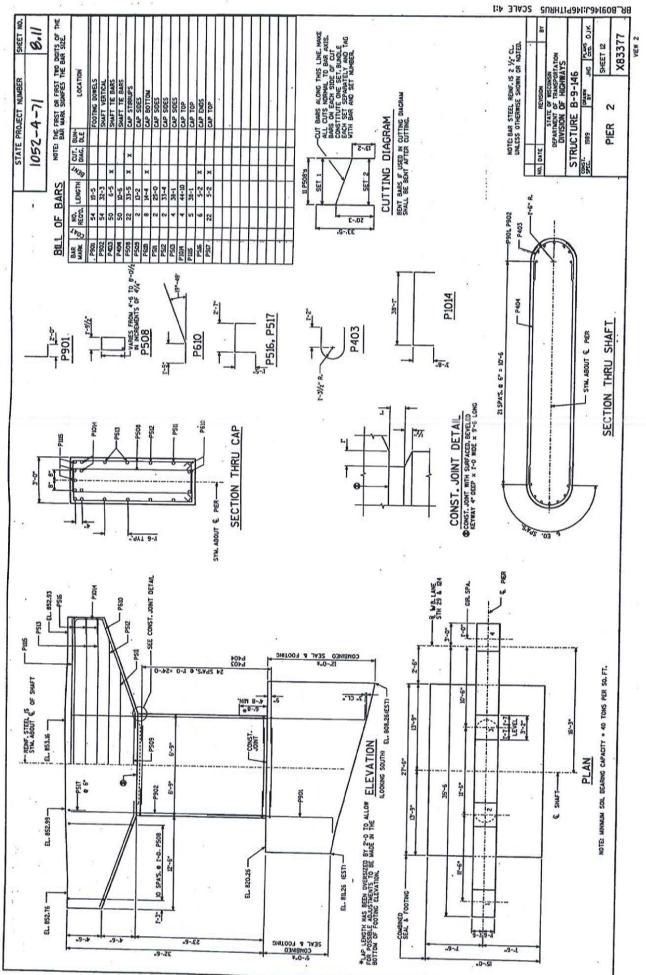


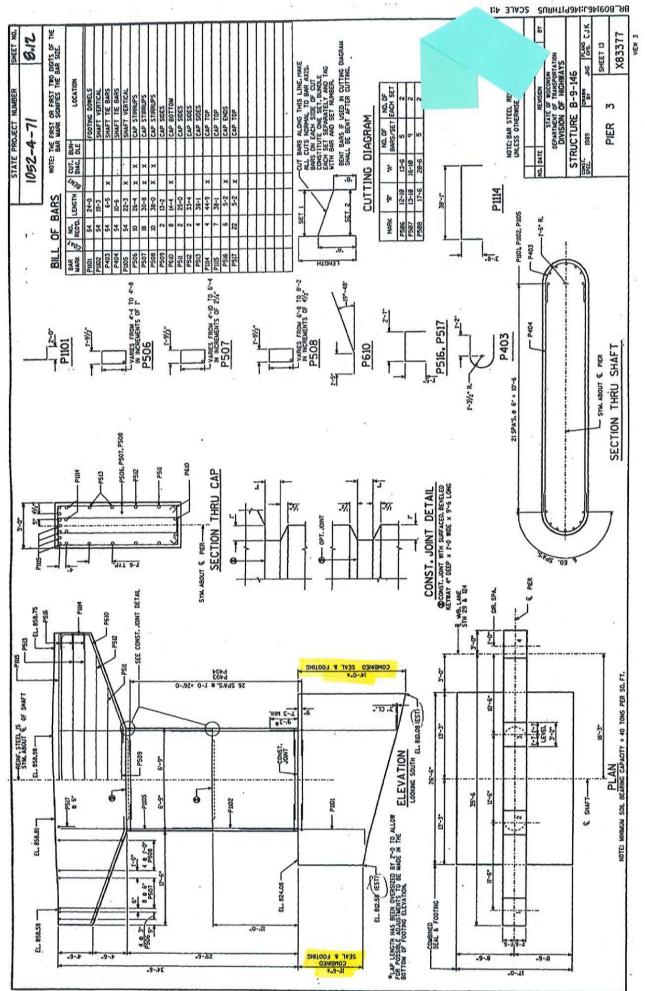


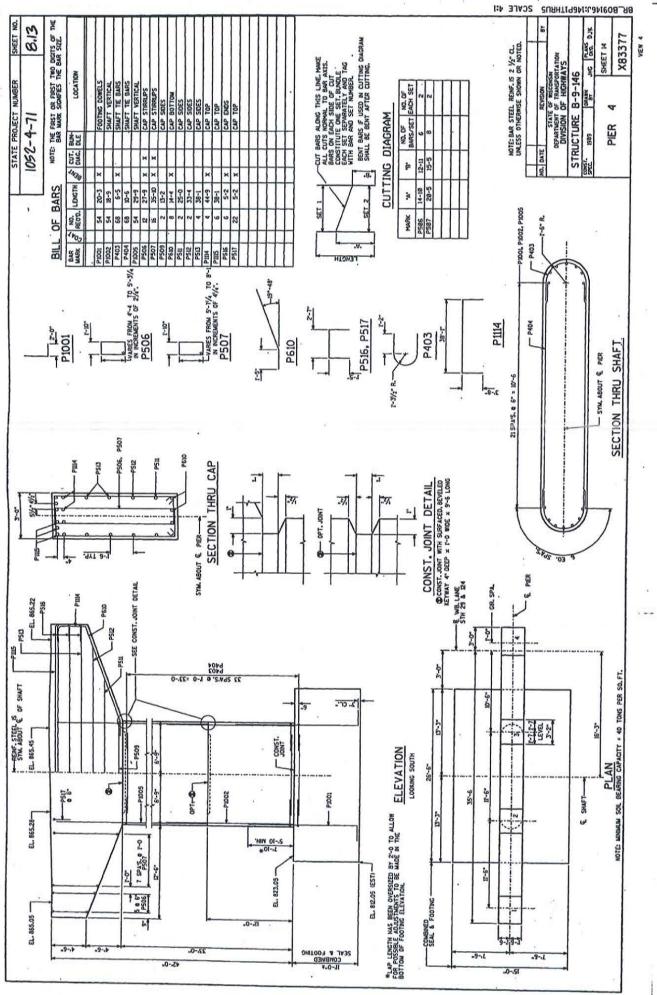


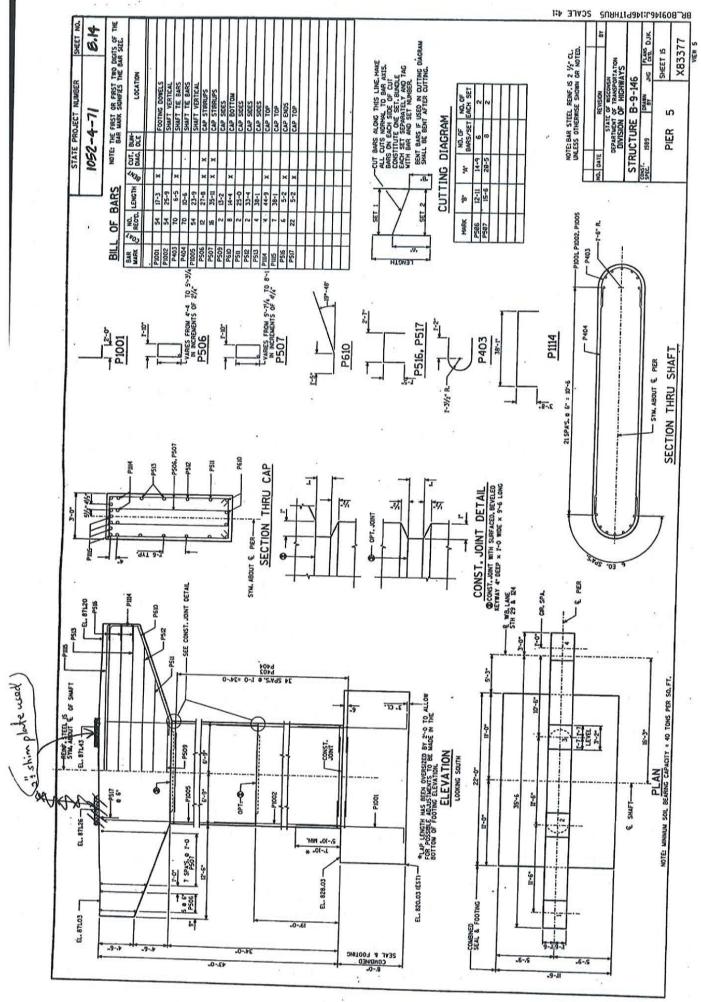


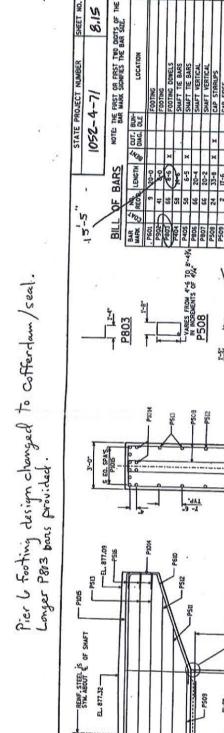
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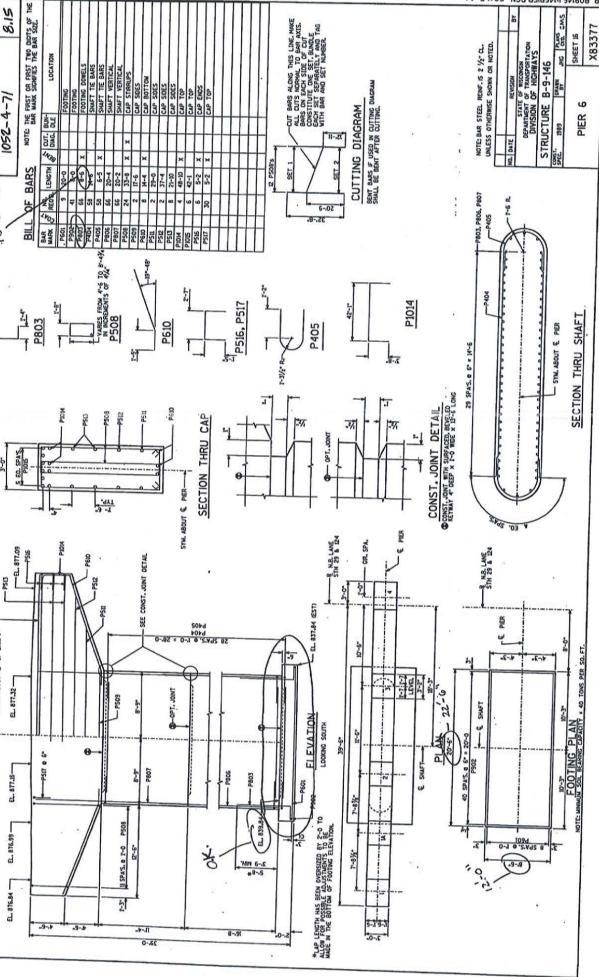






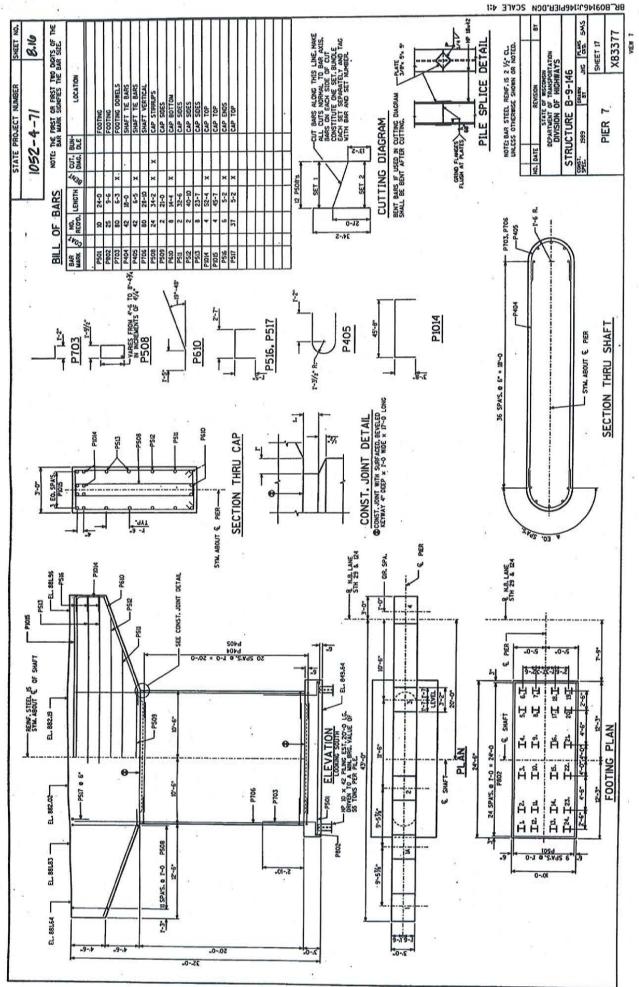


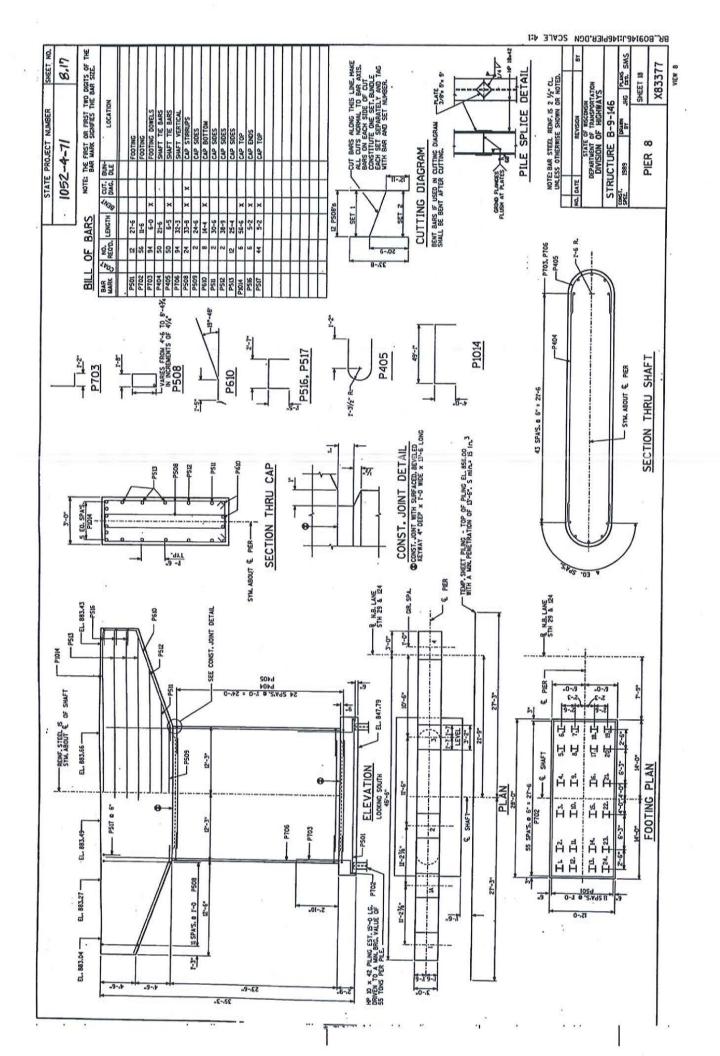


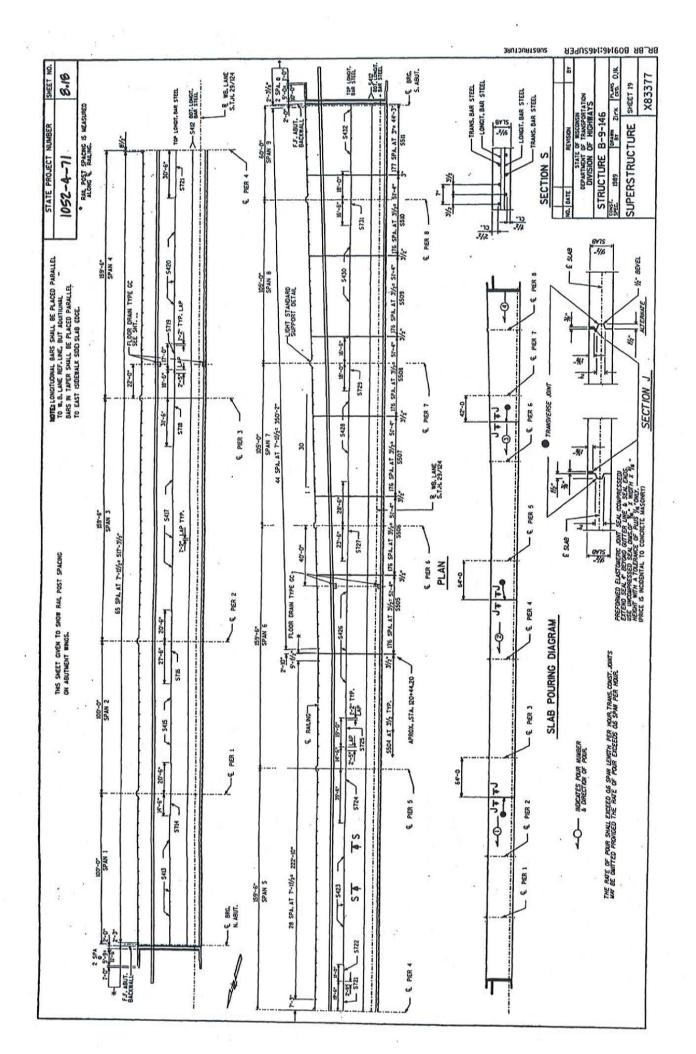


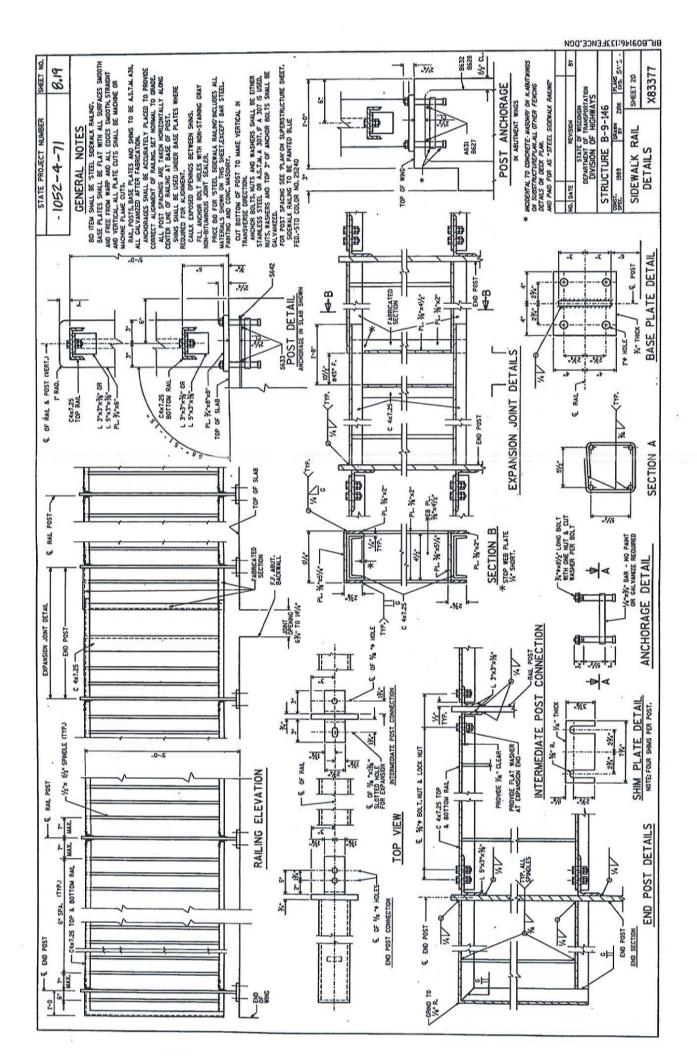
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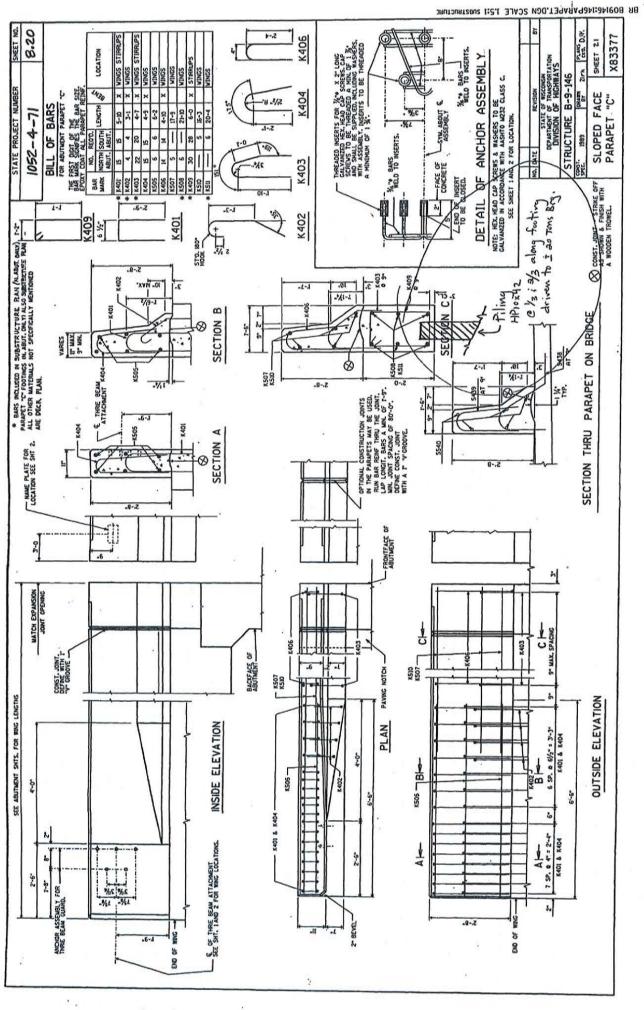
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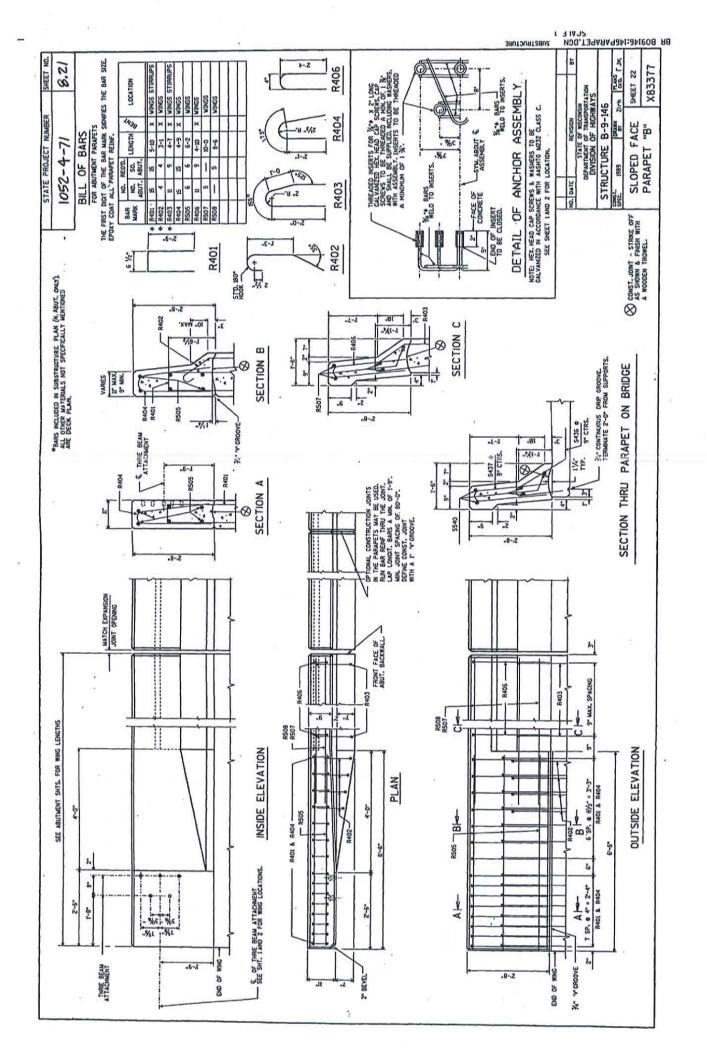












Bonk, Aaron M - DOT

From:	Felix, Jessica L - DOT
Sent:	Monday, June 12, 2017 12:40 PM
То:	Becker, Scot - DOT; Shadewald, Laura - DOT; Krebs, Steven - DOT; Arndorfer, Robert - DOT; Horsfall, Jeffrey - DOT
Cc:	Mentzel, Jerald - DOT; Brunner, Gary - DOT; Conlin, Paul - DOT
Subject:	Emailing - STH124NB-B-9-146-coring.pdf
Attachments:	STH124NB-B-9-146-coring.pdf

BOS and BTS,

- >

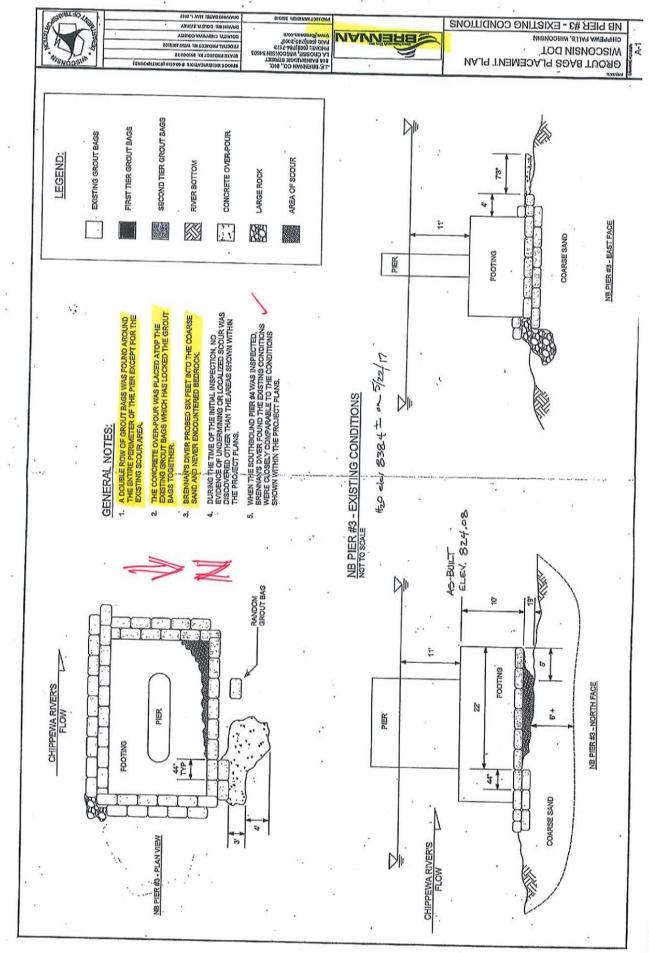
Attached is a PDF summary of the observations thus far on STH 124 NB, B-9-146.

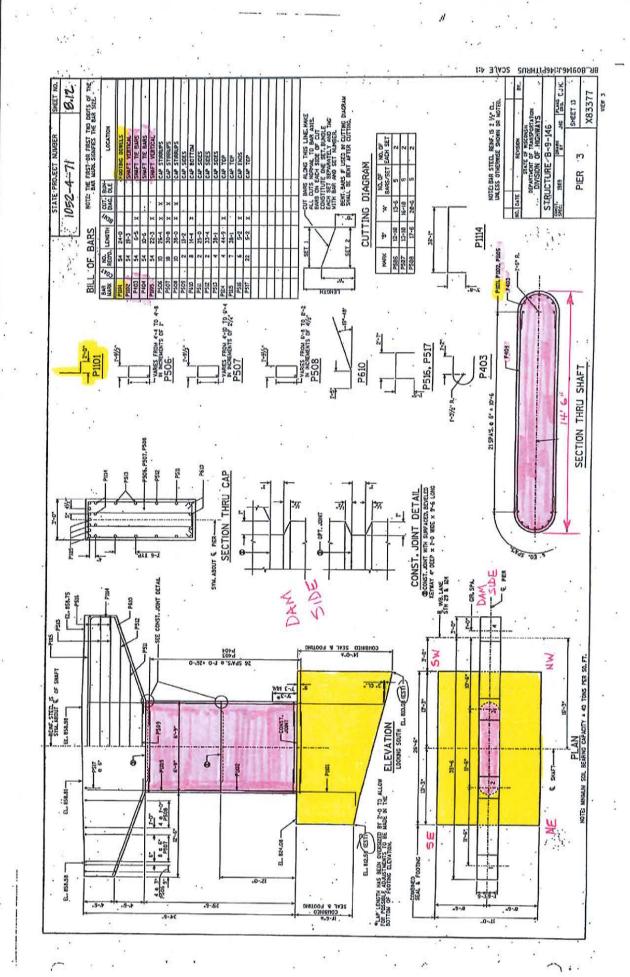
Region will assemble internal talking points to be shared with DTSD AO and SO. Goal is to have those distributed in draft form in the next 30 minutes for your edit/review. Region has media interview this afternoon. Those talking points will be shared with OPA prior to media.

Am requesting that BTS put together an elevation in relation to the bridge pier of where have the soil conditions that have encountered. This would be for internal use only.

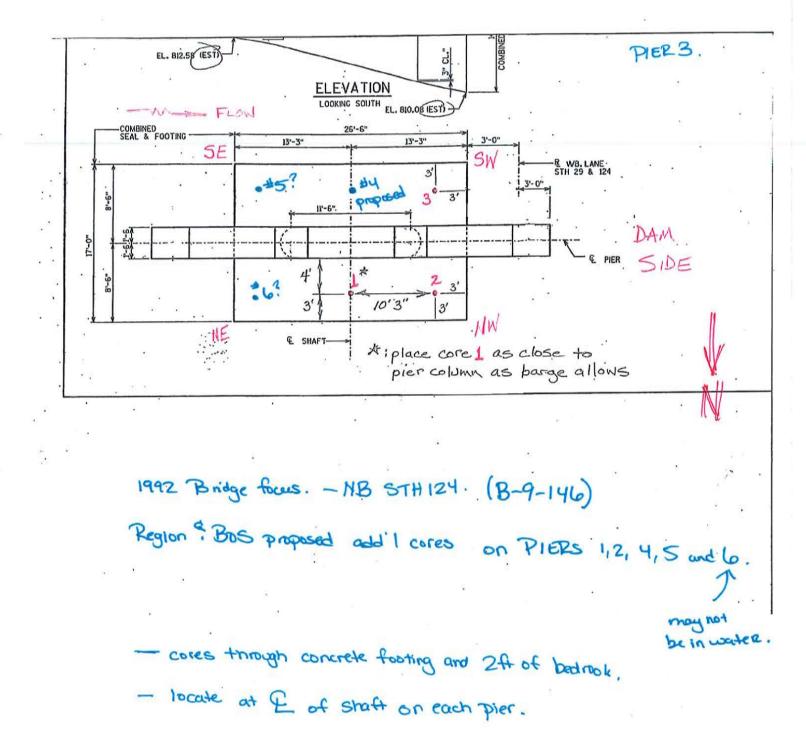
Thank you! Jess

Jessica L. Felix, PE Northwest Region Deputy Director Cell: 715-225-9302





Soil borings locations 6/12/2017. JLF.



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Bonk, Aaron M - DOT

From: Sent: To: Cc: Subject: Attachments: Haig, Gregory - DOT Wednesday, June 07, 2017 1:53 PM Coupar, Matthew - DOT Dreher, William - DOT; Bonk, Aaron M - DOT RE: STH 124 Scour Repair Conference Call IMG_0431.JPG

Matt,

I just wanted to give you a heads up about the coring of the footing on B-09-0146. The coring crew only got one core/boring done today. It was the one located near the center of the pier on the northside of the stem. The coring drill went through 5 ft. of concrete footing before it hit a large layer of very poor concrete (5.5 ft. thick). They ended up having to switch from the core drill to a split spoon in order to get samples. After that they did hit another layer of good concrete but that was only about 8 in. thick before encountering more bad concrete. The poor concrete consisted of mainly gravel and had virtually no consolidation. They did eventually get into good bed rock , but that wasn't till they were about 8 ft. below the footing. They are going to do the rest of the proposed cores, but I just wanted make you aware of the situation. Hopefully we get better news from the rest, but at this point it's not looking good.

I've attached the boring notes that Jeff Horsfall took on site today.

Thanks,

Gregory Haig, P.E. Bridge Maintenance Engineer Northwest Region, Eau Claire gregory.haig@dot.wi.gov cell. (715) 577-0646

8' BELOW SOUND UPPER 5' SECTION OF FOOTING BUT ONZY 1' BELOW LOWER SOUND CONCRETE LAYER

From: Dreher, William - DOT Sent: Monday, May 15, 2017 3:15 PM To: Pitsch, Nicholas J - DOT ; 'Cole Fairey' ; Lambele, Stacie - DOT ; Weiss, Tara - DOT ; 'Devlin Huhta' ; Pilgrim, Mark ; Bonk, Aaron M - DOT ; Rambo, Daniel N - DOT ; Coupar, Matthew - DOT ; Haig, Gregory - DOT ; Horsfall, Jeffrey - DOT ; Perkins, Mike - DOT ; Conlin, Paul - DOT ; Nemec, Albert - DOT ; Allie, Matthew A - DOT Cc: 'Dan Wibralski' ; 'Scott Krall' ; 'Tim Kosobud' ; 'Steve Robinson' ; 'Randy Jacobs' Subject: RE: STH 124 Scour Repair Conference Call

There seems to be the possibility for confusion related to which corner of the footing we're talking about (the NW corner). Please place a north arrow on the attached drawing and return to the group.

Thanks,

Bill

William Dreher, P.E. | Structures Design Chief Office: (608) 266-8489 | Mobile: (608) 206-6935 william.dreher@dot.wi.gov | BOS Website



From: Pitsch, Nicholas J - DOT Sent: Friday, May 12, 2017 9:56 AM

To: 'Cole Fairey' <<u>cfairey@JFBRENNAN.COM</u>>; Lambele, Stacie - DOT <<u>Stacie.Lambele@dot.wi.gov</u>>; Weiss, Tara - DOT <<u>Tara.Weiss@dot.wi.gov</u>>; 'Devlin Huhta' <<u>DHuhta@zenithtechinc.com</u>>; Pilgrim, Mark <<u>mpilgrim@correinc.com</u>>; Bonk, Aaron M - DOT <<u>Aaron.Bonk@dot.wi.gov</u>>; Dreher, William - DOT <<u>William.Dreher@dot.wi.gov</u>>; Rambo, Daniel N - DOT <<u>Daniel.Rambo@dot.wi.gov</u>>; Coupar, Matthew - DOT <<u>Matthew.Coupar@dot.wi.gov</u>>; Haig, Gregory - DOT <<u>gregory.haig@dot.wi.gov</u>>; Horsfall, Jeffrey - DOT <<u>Jeffrey.Horsfall@dot.wi.gov</u>>; Perkins, Mike - DOT <<u>mike.perkins@dot.wi.gov</u>>; Conlin, Paul - DOT <<u>Paul.Conlin@dot.wi.gov</u>>; Nemec, Albert - DOT <<u>Albert.Nemec@dot.wi.gov</u>>; Conlin, Paul - DOT <<u>Paul.Conlin@dot.wi.gov</u>>; Nemec, Albert - DOT <<u>Albert.Nemec@dot.wi.gov</u>>; 'Scott Krall' <<u>skrall@JFBRENNAN.COM</u>>; 'Tim Kosobud' <<u>tkosobud@JFBRENNAN.COM</u>>; 'Steve Robinson' <<u>srobinson@JFBRENNAN.COM</u>>; 'Randy Jacobs' <<u>rjacobs@JFBRENNAN.COM</u>>

Subject: RE: STH 124 Scour Repair Conference Call

9:00 AM on Monday didn't work with JF Brennan's schedule. I have set up the conference call for 2:30 PM Monday afternoon. The phone line is 888-557-8511 and the access code is 6261864. Please let me know if that works for everyone.

Thanks, Nick

Nicholas J. Pitsch Civil Engineer - Transportation Cell: (715) 579-4377 E-mail: <u>nicholas.pitsch@dot.wi.gov</u> Wisconsin Department of Transportation 718 West Clairemont Avenue

Eau Claire, WI 54748



From: Pitsch, Nicholas J - DOT
Sent: Friday, May 12, 2017 9:04 AM
To: 'Cole Fairey' ; Lambele, Stacie - DOT ; Weiss, Tara - DOT ; 'Devlin Huhta' ; Pilgrim, Mark ; Bonk, Aaron M - DOT ; Dreher, William - DOT ; Rambo, Daniel N - DOT ; Coupar, Matthew - DOT ; Haig, Gregory - DOT ; Horsfall, Jeffrey - DOT ; Perkins, Mike - DOT ; Conlin, Paul - DOT ; Nemec, Albert - DOT
Cc: Dan Wibralski ; Scott Krall ; Tim Kosobud ; Steve Robinson ; Randy Jacobs
Subject: RE: STH 124 Scour Repair Conference Call

Good Morning,

I have set up a conference call line for Monday May 15 at 9:00 AM to address concerns that JF Brennan has brought forward regarding the scour repair on pier 3 of B-9-146. The phone line is 888-557-8511 and the access code is 8581062. Please let me know if you have any questions or concerns regarding and I will get back to you. I will be on site in Chippewa Falls today until approximately noon.

Thanks, Nick

Nicholas J. Pitsch Civil Engineer - Transportation Cell: (715) 579-4377 E-mail: nicholas.pitsch@dot.wi.gov

Wisconsin Department of Transportation 718 West Clairemont Avenue Eau Claire, WI 54748



From: Cole Fairey [mailto:cfairey@JFBRENNAN.COM] Sent: Wednesday, May 10, 2017 5:05 PM To: Pitsch, Nicholas J - DOT <<u>Nicholas.Pitsch@dot.wi.gov</u>> Cc: Dan Wibralski <<u>dwibralski@JFBRENNAN.COM</u>>; Scott Krall <<u>skrall@JFBRENNAN.COM</u>>; Tim Kosobud <<u>tkosobud@JFBRENNAN.COM</u>>; Steve Robinson <<u>srobinson@JFBRENNAN.COM</u>>; Randy Jacobs <<u>rjacobs@JFBRENNAN.COM</u>> Subject: STH 124 Scour Repair Conference Call

Good afternoon Nick,

After completing an in-depth dive inspection to investigate the existing conditions of Structure B-09-0146's Pier #3, we have a list of concerns with completing the remainder of this project under the original proposal. When comparing the actual conditions to what was provided in the project's plans and specifications, we have noticed a complete misrepresentation of the actual conditions.

First of all, according to the project plans on Sheet 198, the elevation of bedrock should be located at $6'0''\pm$ from the top of the footing. At the Northwestern corner, Brennan's divers obtained a rough measurement of 11'0'' from the top of the footing to river bottom. When Brennan's divers probed through the sandy river bottom near the Northwestern corner of the footing, the diver hit a solid bottom at about 5'6". Assuming the diver did not probe a grout bag or a large boulder, the elevation from the top of the footing to bedrock is in excess of 16'0''. Bearing in mind the project's plans and specifications elevation of $6'0''\pm$ from the top of the footing to bedrock, Brennan has discovered a 10'0'' difference when comparing the existing conditions to the project's plans.

Surrounding over three quarters of the footing's perimeter, the concrete over-pour was not shown or mentioned within any of the project's plans or specifications. This concrete over-pour has locked all of the existing grout bags together in a single mass. Considering there is no information pertaining to the existence of the concrete over-pour, the thickness cannot be ascertained in order to calculate the volume of required removal. Subsequently, the concrete over-pour was discovered around the entire downstream face of the footing, Brennan's dive team would have to demolish and remove in order to complete grout bags installation.

In order to excavate to bedrock, Brennan's divers would need to remove approximately 150-250 cy of material to properly bench the coarse sand and clear an area to place the grout bags. Also, the required excavation of 150-250 cy of material would all be completed far below the elevation shown on the project's plans and specifications In all likelihood, the divers would need to excavate underneath the existing grout bags and concrete over-pour in order to remove the required material. The safety of the divers must be held paramount. Divers cannot be positioned underneath any unsupported grout bags or concrete over-pour during the project. Additional grout bags would have to be removed and the unforeseen concrete over-pour would have to be removed as well.

Bearing in mind the above concerns, Brennan would require extra compensation to perform a scope of work which is inherently different than what was provided in the project's plans and specifications. We also have some liability concerns about completing this project after the meeting with members of WisDOT. Based on the existing conditions comparison to the project specifications, what is the pier actually founded upon? Is it truly anchored into bedrock? Is it

resting on sand? We have understood that the bridge has shifted in the past which lends an uncomforting feeling towards completing an excavation which has a high probability of further undermining a critical foundation member.

Thanks, Cole R. Fairey Project Manager office 608.519.5330 | cell 608.799.0013 cfairey@jfbrennan.com

J.F. Brennan Company, Inc. 818 Bainbridge St., La Crosse, WI 54603 www.jfbrennan.com



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From: Pitsch, Nicholas J - DOT [mailto:Nicholas.Pitsch@dot.wi.gov] Sent: Wednesday, May 10, 2017 2:26 PM To: Cole Fairey <<u>cfairey@JFBRENNAN.COM</u>> Subject: RE: STH 124 scour repair conference call

Cole,

Could you email your concerns so I can forward them onto a couple of people within the department.

Thanks, Nick

> Nicholas J. Pitsch Civil Engineer - Transportation Cell: (715) 579-4377 E-mail: <u>nicholas.pitsch@dot.wi.gov</u>

Wisconsin Department of Transportation 718 West Clairemont Avenue Eau Claire, WI 54748



From: Pitsch, Nicholas J - DOT Sent: Wednesday, May 10, 2017 8:40 AM To: 'cfairey@jfbrennan.com' <<u>cfairey@jfbrennan.com</u>> Cc: 'Devlin Huhta' <<u>DHuhta@zenithtechinc.com</u>>; Lambele, Stacie - DOT <<u>Stacie.Lambele@dot.wi.gov</u>> Subject: STH 124 scour repair conference call Cole,

1 1 1

Before I set up the conference call regarding the scour repair on Pier 3 (B-9-146) could you let me know all of JF Brennan's concerns with the work according to plan. So I know who to get involved.

Thanks, Nick

Nicholas J. Pitsch Civil Engineer - Transportation Cell: (715) 579-4377 E-mail: <u>nicholas.pitsch@dot.wi.gov</u>

Wisconsin Department of Transportation 718 West Clairemont Avenue Eau Claire, WI 54748

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Disclaimer

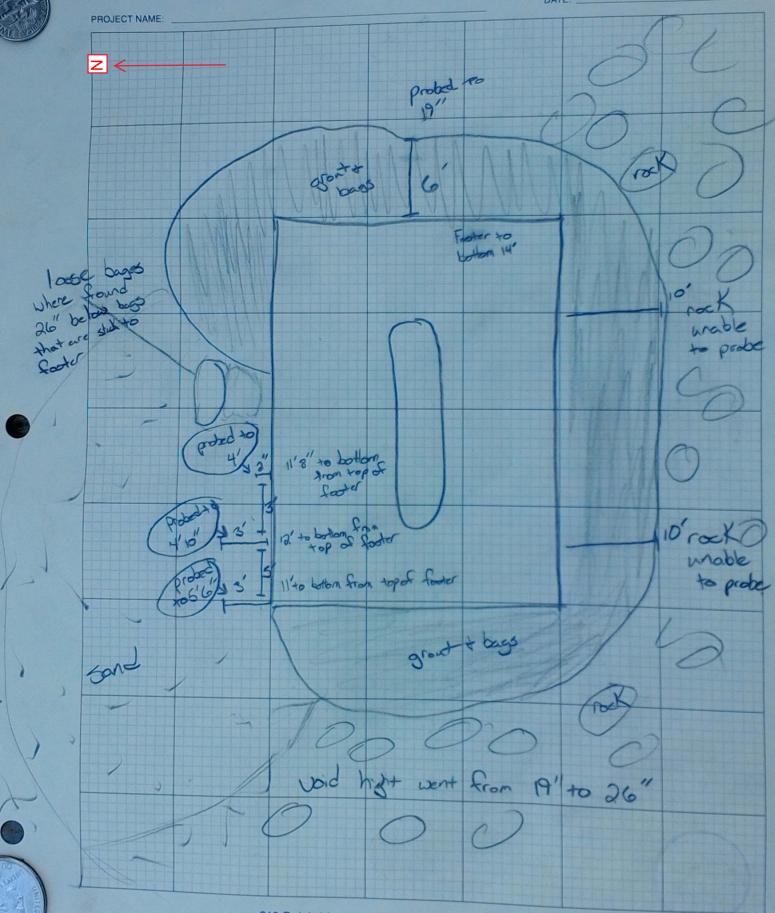
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cor 5						- 30' 5	mte,	28'-3	1 1000	30' -	_		6
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						— , P	-OB-	12-1	tier 3				
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Che	ked By							Final			Boring	No.	
2.4	1. NOSCI (N. 1997) 11						× 1						

MA 12421 7102/70/80





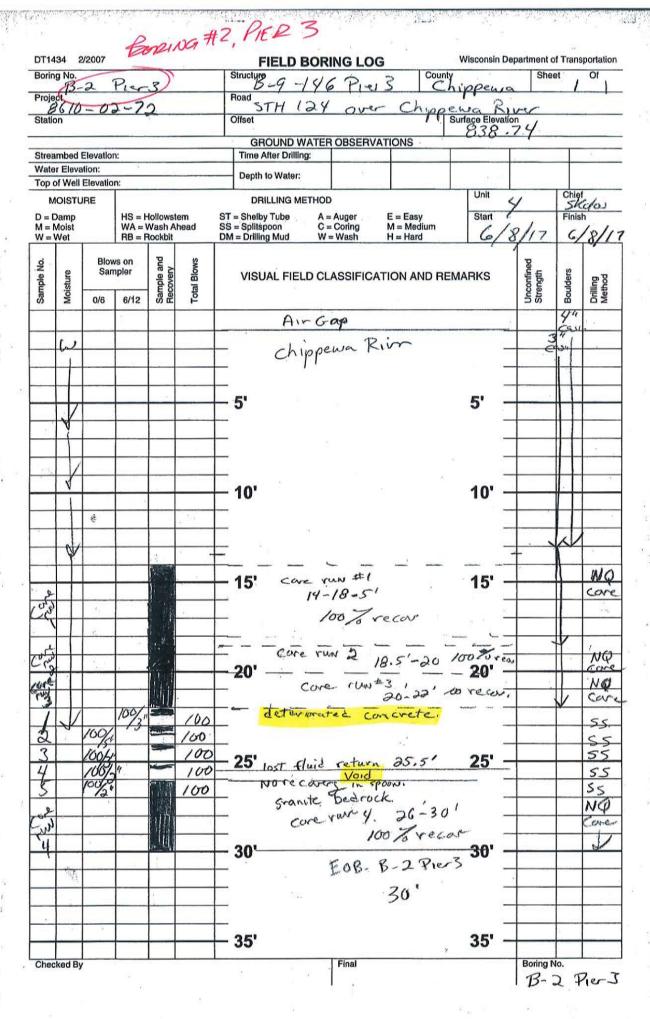




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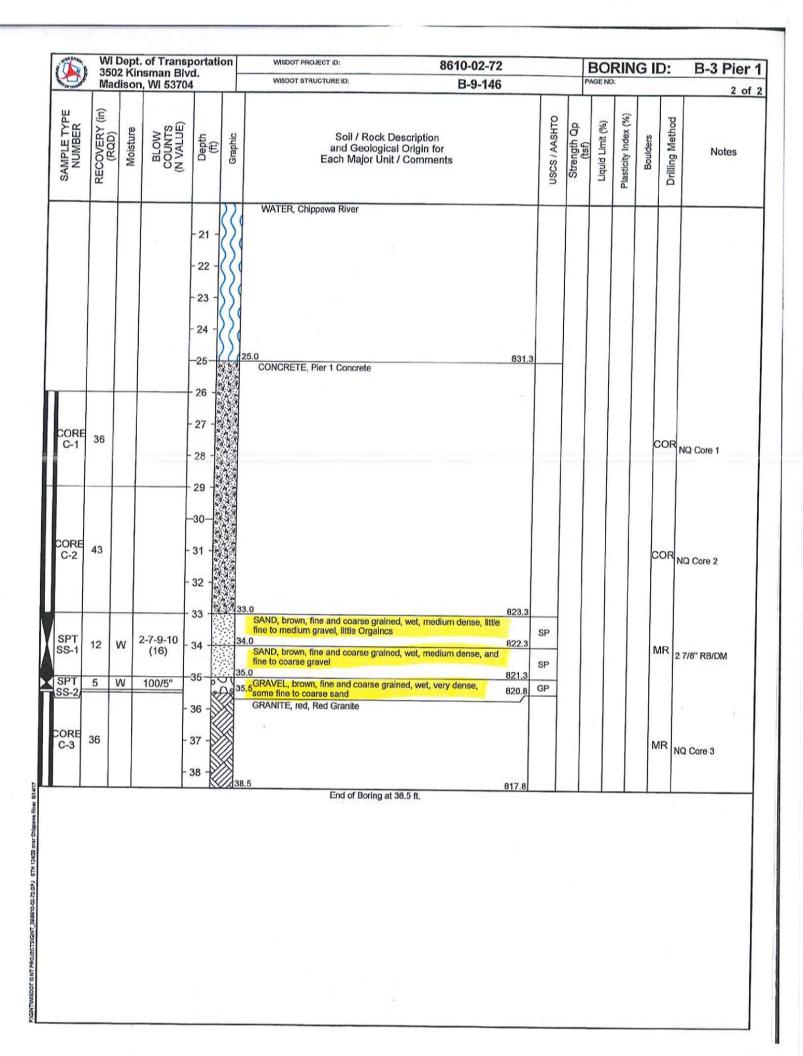
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-	WI	Dept.	of Trans	portat	ion	WISD	OT PROJECT ID:		8610-0	2-72			BO	RIN	IGI	D	B-3 Pie
	350	2 Kin	sman Blv WI 5370	/d.	ł	WISD	OT STRUCTURE ID:		B-9-			1	PAGE N			(
ASDOT PR	OUECT N	ANAE-	er Chippe			CONSULTANT:			CONSULTANT PROJEC			-	ATITU	E:			1 LONGITUDE: 1.38756733333
OADWAY	NAME:		24 NB/ B			DRILLING CONTR	ACTOR:	WISDOT	DRILLING CONTRACTO	OR PROJECT NO:		-4	NORTHI	NG:	00000	107-9	LASTING:
ATE STAR		0111	24 ND/ D	6/14		CREW CHIEF:		J. Ruda	DRILL RIG:			nit 1	COORD	NATE S	YSTEM:	_	WOOD Ohler
ATE COMP	LETED:			6/14/	1	LOGGED BY:		S. Hunter	HOLE SIZE:				IORIZO	TAL D	ATUM:		WCCS Chipp RERTICAL DATUM
OUNTY:				Chipper	1	LOG QC BY:		o, numer	HAMMER TYPE:	۵	utom	5	TREAM				
ATION			OFFSET	mppe		TOWNSHIP:	RANGE;	SECTION:	1/4 SECTION		SECTION		URFAC	EELEVA	TION:		856.
	0.0			1	1	1	5 0 M				1	Γ.	1	Γ			0.50.2
SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ff)	Graphic		and	l / Rock Des Geological C Major Unit / C	Drigin for		USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
						CONCR	ETE, 10.5 PCC	Bridge Deck								MR	4" Casing 2 7/8" RB/DM
				- 1 -	45 K.X	Air Gap				855.4	-	-					2 //o rtb.biii
				- 2 -													
				- 3 -													
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				and the second													3" Casing
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			-	17 -													
				18 -	21	WATER, C	Chippewa River			838.8							
			-	19 -	3												
					1	MATE		CAVE IN	OBSERVATIO								
WAT	ER EN	COU	NTERED D	URING	DRI		MR		CAVE - IN DEPTH			: N	MR		_		WET
104500.000			TCOMPLI			MR			CAVE - IN DEPTH				AR				DRY WET DRY



122	434 ng No	2/2007 B:3	01-	21		FIELD BORING LOG	Wisconsin De	partment.	and the second second	of 7
Proje	ect -		PIE		2	Band B-9-146	CHIPPEW)	A		-2
Stati		<u>8610</u> 13+			-	Offset 25' 15-5-5-5-1000 CHIR		n Der	20	·
Oliver	5				3	GROUND WATER OBSERVATIONS	:	. 006	.20	
Wate	er Eler	d Elevatio vation:	1 1 X	· ·		Time After Drilling:		1	-	85 - 19
	of We	II.Élevatk	on:			DRILLING METHOD	Unit .		Chle	1
D=1	Damp Moist	1.1	HS = 1 WA = RB = 1	Hollows Wàsh A Rockbit	tem Ahead	T,= Shelby Tube, A = Auger E =, Easy S = Spillspoon M = Medium M = Drilling Mud W = Wash H = Hard	Start G=14	17	Finis	1RUDA . -14.17
		Blov	Ns on	T '	ø		2 .			
Sample No.	Moisture		6/12	Sample and Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND R	EMARĶS	Unconfined	Boulders	Drilling Method
1	10		*			10.5" PCC BRIDGE DECK	29/124 WB	Dω	۵ 4#7	278
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Silver Silver							۵ ۱	• •	3	DM.
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	X	•		1	<u> </u>	5	5' —		11	· · ·
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-	-				•	15'	15' -		11	
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-				_	-					
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-	+					• y	-		+	+
		•				25'	-25'	s 	1	-
<u> </u>	$\left\{ \right\}$				12	25 CONCRETE FOOTING PICEI			1.	V
in et u	11				<u>.</u>	OST FLUID RETURN 26'			31	NQ
	Π				1		100%		A	T
2	$\left\{ + \right\}$			1	· .	30' CORE RUN HZ :	.30'		1	- (·
24				ilin -		90% RECOVERY	-		15	·
2				4						4
隆.		2	7.	\sim	16	CSAND LITTLE F.M. GRAVEL LITTLE MORNE	Balling Film	-		278 RB
2.1	1	cos			00/5	5- ECSANOL GRAVEL BRUND FRAM	-DENSE			PM

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	ng No.	B-3	PIER	1		Structure 13-9-146	County	PEWA	Sheet	2 01	2
Proje	oot {		-02		2	Road STH 124/29 OWER	C. HIPPAWA	RIUG	2	1.1	-
Stati			1.95.						256.	78	
Stree	1	Elevatio		P	(4)	GROUND WATER OBSERVATION	S		0.001		_
Wate	r Elev	ition::	1		11	Depth to Water:	(h)				-
		Elevation	on: :				Uni	<u>.</u>		Chief	
D = 0	OISTL	HE	HS⊨	Hollows	tem .	DRILLING METHOD	24.2		· .	Chief Rv	DA
M=N W=V	Aolst	(á)	WA =	Wash A Rockbit	head	ST = Shelby Tube A = Auger, E = E SS = Splitspoon C = Coring M = N DM = Drilling Mud W = Wash H = H	asy Sta Medium	n -14-1	and the second s	Finish G - 14 -	
		Blo	ws`on	9	10	, , ,				1	
Sample No.	ture		mpler	Sample and Recovery	Total Blows	VISUAL FIELD CLASSIFICATION	AND REMARKS		Strength	es mo	
Sam	Moisture	0/6	6/12	Sam	Total	**************************************			Stren	Boulders Drilling Method	2
·c-		11		FOR		E-CGRAVEL SOME F.CSAND BROW	N_L-RENSE	·			
C 083	1	1.		1		CORE RUN # 3 35.5		-		- NO	-
Ē	1	1	10	12.		100% RECOVERY				1	.4
·						- ED. R R. 2 20	5'			4	
4.8				1.8	3	Bryo, E.O. B. B. 3 38	5' 5'		· * •	1911	. /
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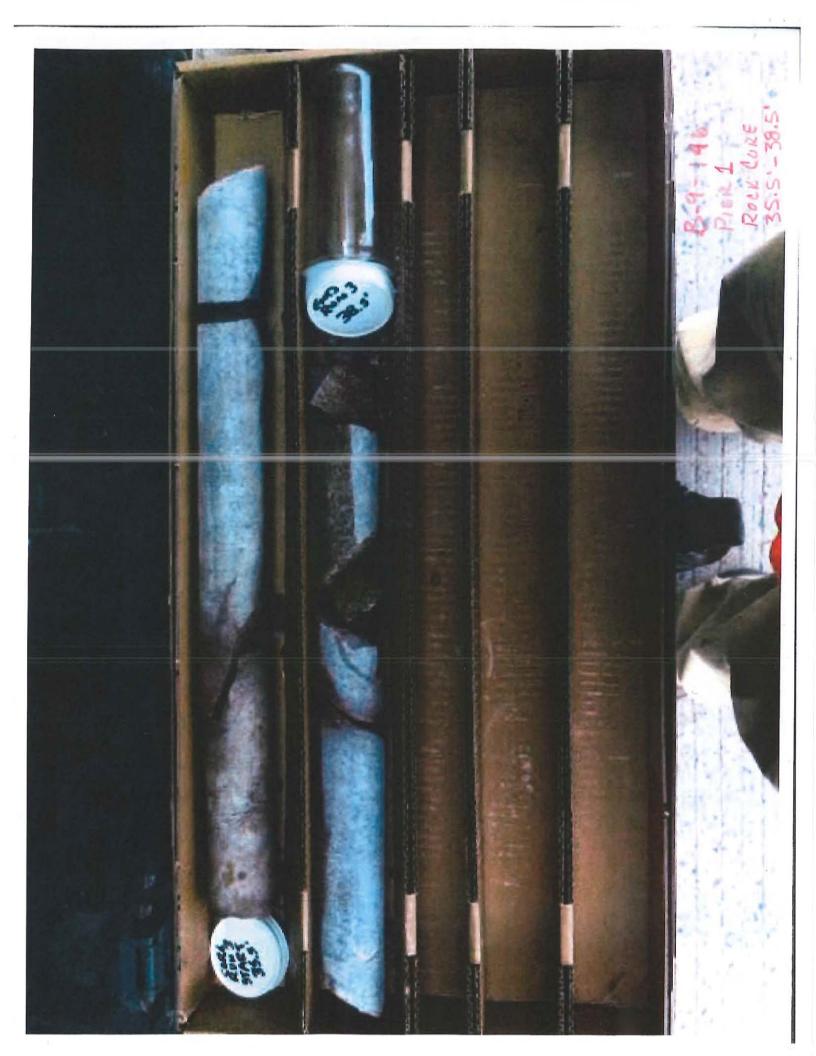
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8 N (S).









						<		BORING NU		Pier
LIENT ROJECT NUMBER	NW DOT 8610-02-	Eau Claire Mike	Perkins			ROJECT NAME ROJECT LOCATION		9 over Chippewa Rive Falls / Chippewa River	r	
	7-06-15	COMPLET				ROUND	860.3 WGS 84	HOLE SIZE	4.00	
RILLING CONTRACTOR	7-00-10	COMPLET				LEVATION .	000.0 1100 04		4100	
RILLING METHOD	Mud rota			_						
DGGED BY DTES	Steven H	funter aul Skolos								
	Box Income and Annual States in the	1	[T	1	1				70
C(f) (f) SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	TEST AND REMARKS	U.S.C.S	GRAPHIC		MATERIAL D	ESCRIPTION		Environmental Data
					4	CONCRETE,	10.5" PCC Bridge Dec	ĸ	859.4	
2 2-2					120.14	Air Gap			022.4	
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1						1				
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e 13-	(8)									
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20.0										
						22.0			838.3	
1.00						WATER, Chip	pewa River			
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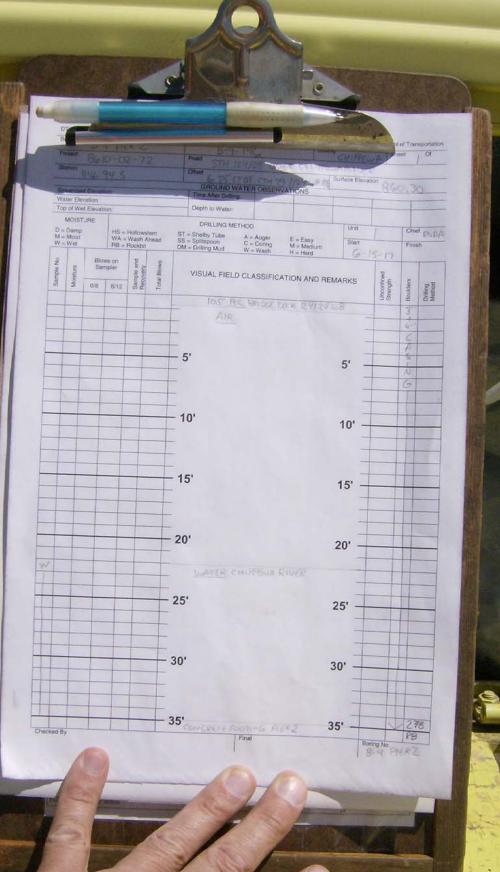
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CLIENT PROJECT NUMBE		NW DOT 8610-02-7	Eau Claire Mike Pe 72	rkins			JECT NAME	ON	STH 124/29 over Chippewa River Chippewa Falls / Chippewa River, Chippewa	Falls, W	isconsi
DEPTH (ft) SAMPLE TYPE		RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	TEST AND REMARKS	U.S.C.S	GRAPHIC LOG			MATERIAL DESCRIPTION		Environmental Data
	SPT SS-1 CORE C-1	100.00	4 - 35 - 46 - 35 (81) (60.0/0.0")		SP	a a a a a a a a a a a a a a a a a a a		e lo coarse avel, wel	Footing grained, brown to gray, very dense little fine to arse grained, brown to gray, very dense and fine to	8253 816.8 816.3 816.3	
50.0 50.0 55.0 55.0 55.0 60.0	CORE C-2	99.15							2		

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-		2/2007				FIELD BORING LO	IG	Wiscomm Des		Transp	
	HEIT	84				Bruchure B-9-146	County	(UITPEW)		2	O
Sta	bon ambed	Elevatio	93.5					untece Elevatio	* 860	. 30	
Тор		Ehrvade	ini i			Depth to Water:					
D=	MOISTI Damp Moist Wet	URE	WA-	Hollowsh Wash Al Rockbit	em nead	DRILLING METHOD ST = Sheltry Tube A = Auger SS = Splittpoon C = Coring DM = Drilling Mud W = Wash	E = Easy M = Medium H = Hard	Start 6-15		Chief Finis?	
Sample No.	Moisture	Sar	vs on npler	Sample and Recovery	Total Blows	VISUAL FIELD CLASSIFIC		MARKS	Uncontined Strength	Boulders	10
00	2	0/6	6/12	uñ di	4	CONCRETE FOOTING FI	16R 2		Stree		Contraction of the
0044						CORE RUN #1 36	-39	-		1000	1
C IN			-							15	1
o R2						- 5-40 CORE RUND 99% Recove	t 2 391-43 19:4	€ 5'		16	
E										+	+
FT	W.	35	4	X	<u>^1</u>	- 10 45' Fic SAUD I G	RA-CA INC.	1500 - 10-50	100		Ţ
-	1	35	6010	and s	010	- 10'45 U-DENSE CORE RUN # 3	400'-	10'	-	11	+
			-		_		12.0		-		+
						-			-		
						- 15'56'		15'	-		+
_	-			1-2-12					-		-
						- 20' %		20'			
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											1
						- 25'60'		25'			+
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						- 30'63'		30' -			1
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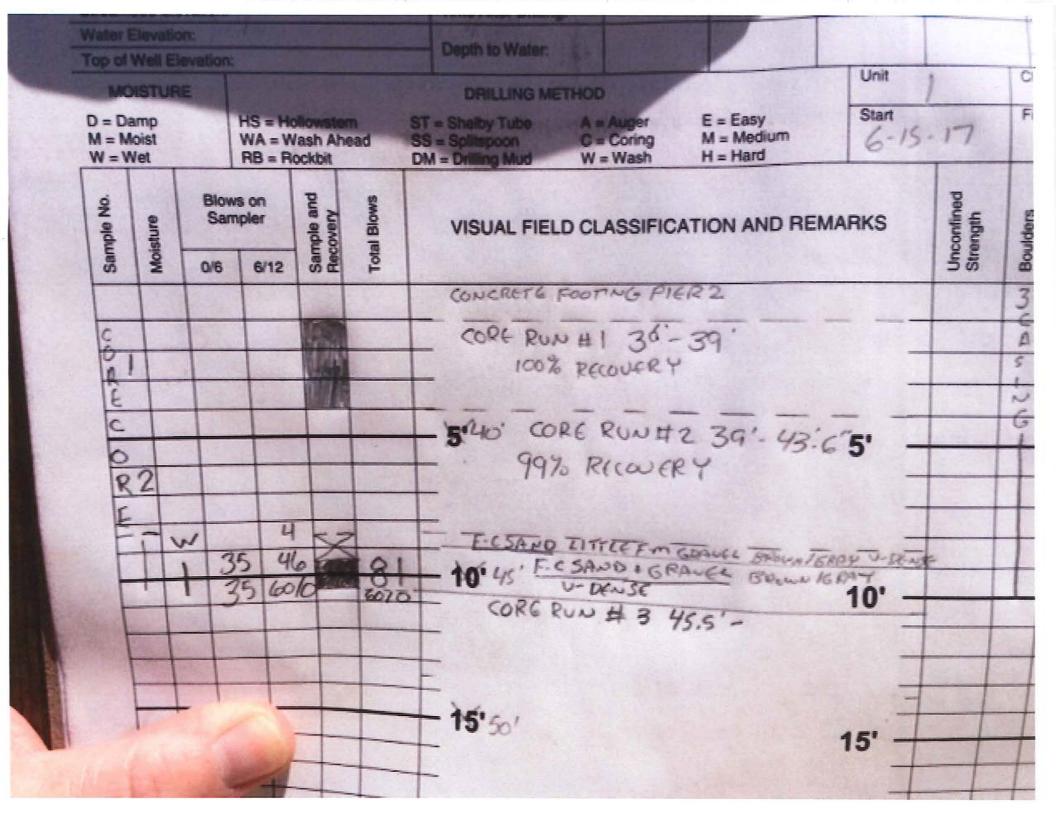
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		DT	1434	2/2007			-	EI	ELD BOR	INGLOG		Wisconsin	Department	of Tran	sportalle
		Bo	ing No.	B-:	5 1	ILR	3.50	Structure	B-9-			CHIPP			01
		Pro	ject		2º 0'	and the second se	Contraction of the local division of the loc	Road			NGE CH	1PPGW	A RIU	ER	
	\$	Sta	tion	1	53,1	2	<i>i</i> 1	Offset 16	. 25'LT (OF STH	29/124 S	urface Eleva	illon 864		14
		Stre		Elevatio				GRO Time Aft	UND WATEF	OBSERVAT	TIONS				-
	6		ter Elev	ation: I Elevati	on: '		•	Depth to	Service Street			1.4.			
			MOIST					DRIL	ING METHOD	· · ·		Unit	1	Chle	f R.p.
	Cupit .	M =	Damp Molst	21	HS = WA =	Hollows Wash A	tem	ST = Shelby 7 SS = Splitspo	ube A =	Auger Coring	E = Easy M = Medlum H = Hard	Start	15-1-1	Finis	16-1
			Wet		RB =	Hockbit	÷	DM = Drilling	Mud W =	Wash .	H = Hard	6-1	15-1-0	6.	16-1
	tores.	Sample No.	e e	Blo	ws on mpler	Sample and Recovery	Total Blows	VISUA	L FIELD CL	ASSIFICAT	ION AND REM	ARKS	thed	2	
	N. O.	Samp	Moisture	0/6	6/12	Samp	Total				ION AND THEN		Unconfined	Boulders	Drilling Method
	34 4		1					10	, 5" PCC	BRIDG	DECK 12	1129		3%	
									HR GAP	8 1960 18 8 1 1 K 1			. 1.0.0	+	
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	K .	Chec	ked By		-	_	1000		in in	Final		de la composición de	Boring No B-5).:).:	

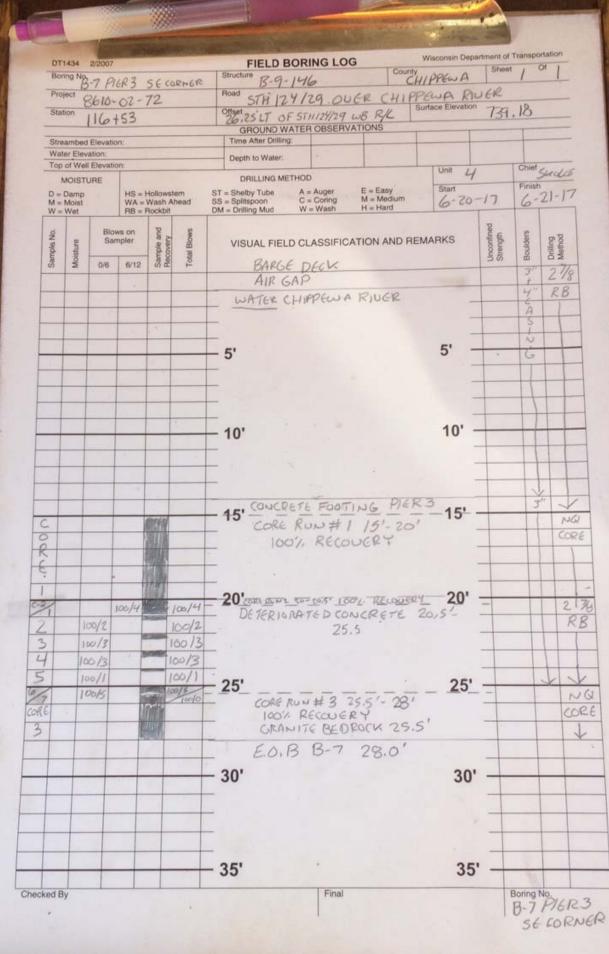
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DT1 Bori		2/2007	-			FIELD BORING LOG Wisconsin Department		
·		B-5			SC.	B.9.196 CHIMA	et. Z	<u>z of /</u>
Proj	(3610-	62-7	12.		STA 124/29 OUGR CHIPTENA RUCE		8 ×.
Stat	ion /	161 5	35			Olfset 16,25'27 OF STH 124/29 WB RAL Surface Elevation SEC	.45	<i>•</i> •
Stre	ambec	Elevatio	on:			GROUND WATER OBSERVATIONS	-	
	er Elev	ation: Il Etevation				Depth to Water:		
	MOIST	1				DRILLING METHOD	Chi	of Rul
D=	Damp	1000000		Hollow		ST = Shelby Tube A = Auger E = Easy Start	Fini	sh
	Moist Wet	<u>* 4</u>		Wash Rockbi		SS = Splitspoon C = Coring M = Medium DM = Drilling Mud W = Wash H = Hard 6-15-17	10	-16-
. 9	1		ws on	pug	SN .	8		
Sample No.	Moisture	Sa	mpler	Sample and Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Boulders	Drilling Method
Sar	Moi	0/6	6/12	Sar	Tot			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	W					WATER CHIPPEWA RIVER	344	<i>µ</i>
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-	H					-,	G	
	1						+	
	1		8 Q.		- 1	– '5' '(G' 5' –	1	
	Y					_ CONCRETE FOOTING	¥.	268
cole		_	1			- CORE RUND #1 42.5'-44' 100%, RECOVERY	¥.	ANG)
CORE		1.			1	, CORE RUNS 2 441-45' 669 PULLOU	Η-	V
11	W	53	100/5	1 18 3	106/5	1045' COPE RUNS 2 44"-45' 589. Rewart 10'	+	27/2
•2		94	160/4		100/4		1	RB
3		26	100/3		100/3		1	1
45	1	90	100/3		100/3			
6	+	70	100M	1.	100/4	- 15'50' 15'		+
7	1	icols		Eschage.	100/5	- · · · · · · · · · · · · · · · · · · ·	T -	
8	V	100/1		danente.	100/1	7 6" CONC QETE FOOTING	V	NIC
C.	•			d_{1}^{2}		- 20'55' CORE RUN # 3 53'-56,5'		CCPK
O 3 X						- 20'55' 1007, RECOVER Y 20'		
6	1		•. 1		-			J.
		×		÷.	a	E,O,B B-5 56'6"		
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		18				- 25'	-	
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Check	ced By			,				•
-100		e G				Final Boring N B-5 F	VER	3 S C

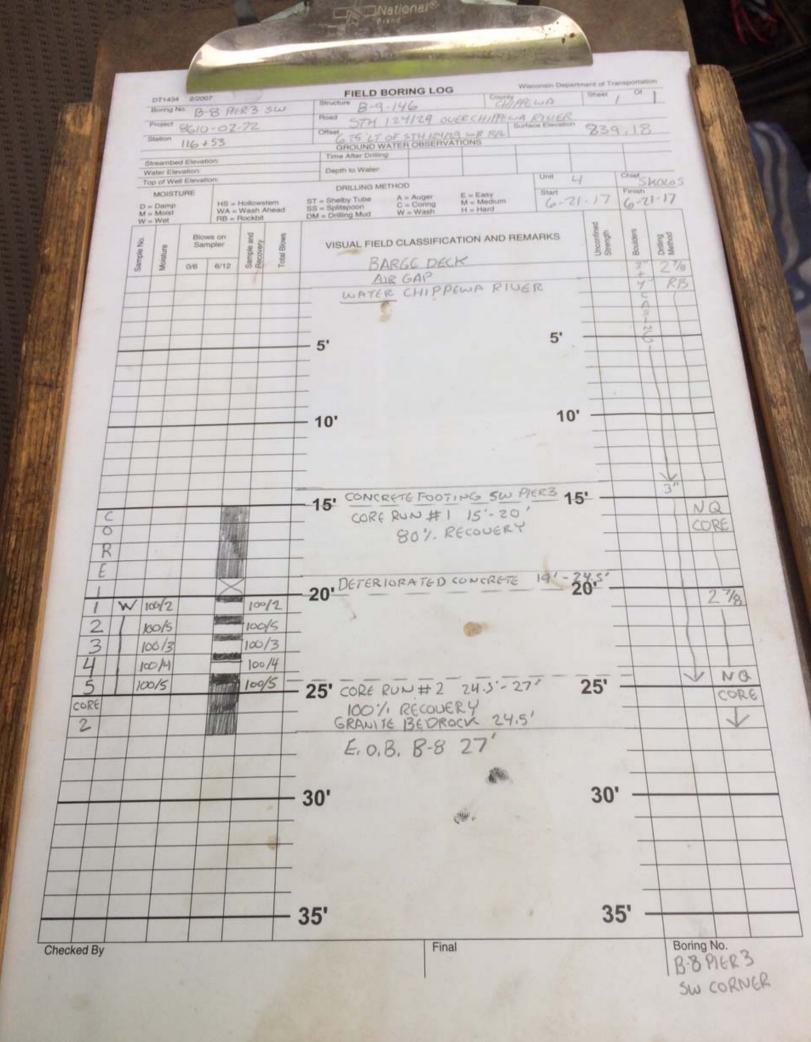
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	34 2	Service of the servic				FIELD BORING LOO	Wisconsin Depar	Sheet		or I
Boring		B-C	o NE	COR	NER			R		
Project	8	610-	- 50-			STH 124/24 OUER CHINE	urface Elevation			
Station		6+44				Offset 26.25'LT OF STH 12.4/29 WB 4/2 GROUND WATER OBSERVATIONS			-	
itreas		Elevation				Time After Drilling:	-		F	
Water I	Elevat	ation:				Depth to Water:			C	
		Elevation				DRILLING METHOD		+4	Chief	RUDA
D = Da		116		Hollowste		ST = Shelby Tube A = Auger E = Easy ST = Selfercore G = Coring M = Medium	Start 6-19-1	7	Finist	20 - 17
M = Mo N = Wo	loist			Wash Ah		SS = Splitspoon C = Coring M = Medium DM = Drilling Mud W = Wash H = Hard	617		0	
9	Moisture	Blows	vs on	Sample and Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND RE	MARKS	Unconfined Strength	Boulders	Drilling Method
UBO .	Moi	0/6	6/12	San Rec	Tota	BARGE DECK	0	20	4	27/8
						AIR GAP			+ 3"	RB
						WATER CHIPPEWA RIVER			6	T
									A	
							-		N	
						- 5'	5' -		G	
						-			П	
-									П	
+										
-						101	10' -			
T	1					_ 10'	10			H
T										++
T									Y	
T							Columba -		1	NQ
- 7 2				1114		- 15' CONCRETE FOOTING PIERS NE CORE RUN #1 /5'- 20' 100% RECOVERY	- 15'		-	CORE
						20' CORE RUN#2 20'-25' 1007. RECOVERY				
				all all		- DETERIORATED CONCRETE 24	4-24,5'	-		
-				Part -		-25' 25' GRANITE BEDROCK	25'-			
			<							
				CHIEF.		COR6 RUN #3 25'- 29.5'		-		
1				ETH-		100% RECOVERY				
								-		-
				ALANE!		- 30' E.O.B. 8-6 29.5'	30'	-		
						- 6.0.13. 06 29.5	00			
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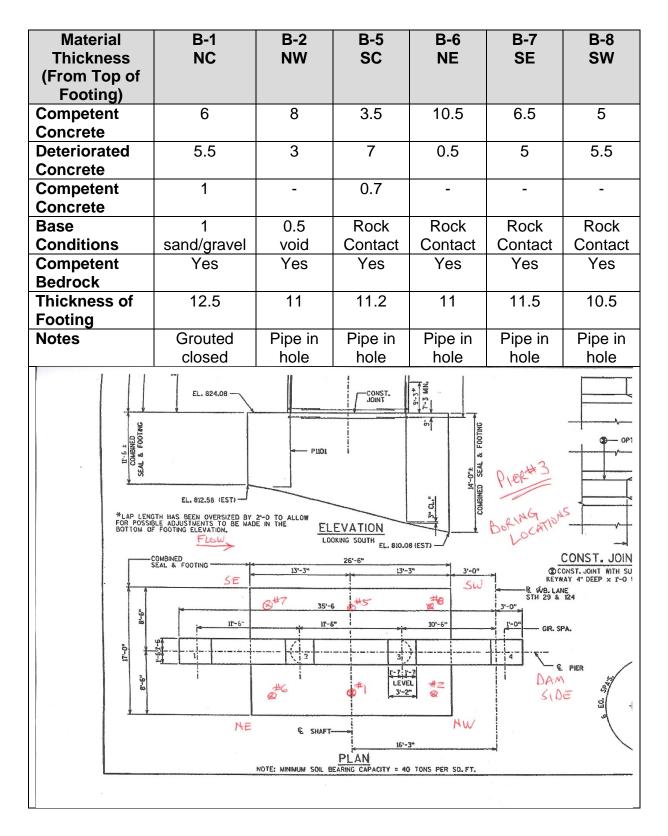


Highly organic sous

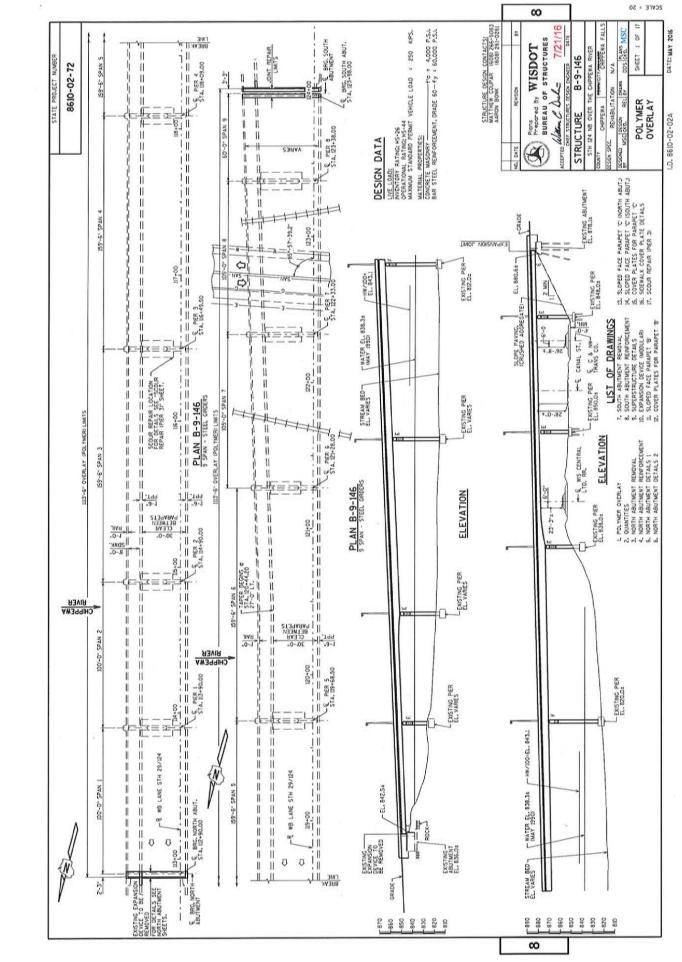


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	+03.5		GROUND WATER OBSERVATIONS			T	
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Top of Well Elevation	on:		DRILLING METHOD	Unit 2	1	Chief	22-1
MOISTURE			A = Auger E = Easy	Start		Finish	00-1
D = Damp M = Moist	HS = Hollow WA = Wash	Ahead S		um 6-22	-17	6	20-1
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Blov	hyper hyper 6/12	Swo	VISUAL FIELD CLASSIFICATION AN	DREMARKS	Unconfined Strength	Boulders	Drilling Method
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9/0 Moi	6/12 00	То	BARGE DECK AIR GAP			3"	27/8
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			25' RE RUN # 3 25.5' - 26' 100". RE	25'	_	_	1
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	Aught		CORE RUN #4 27'-30'				G
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Pier 3 Coring Summary: Thicknesses in feet

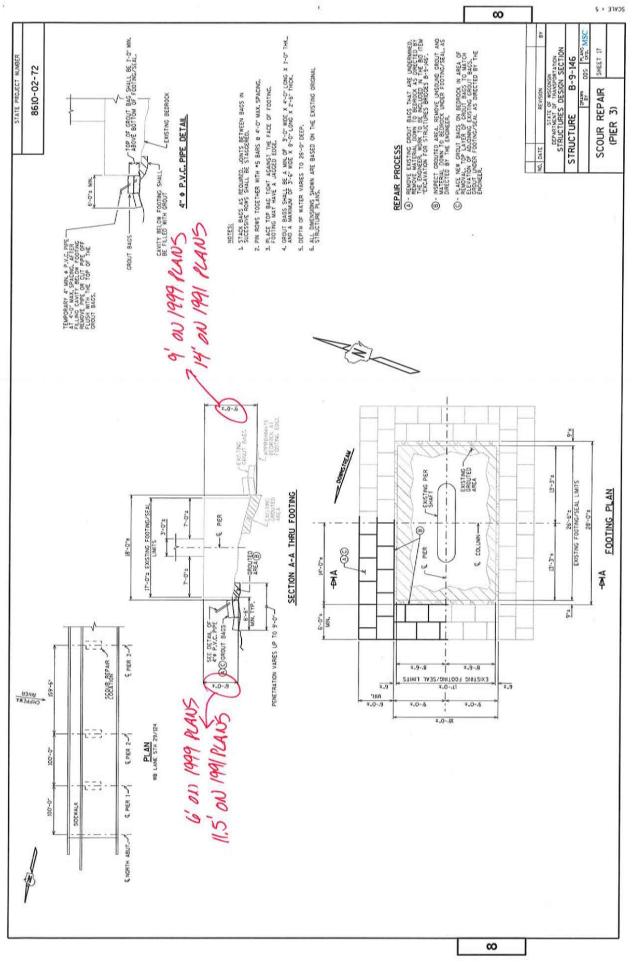


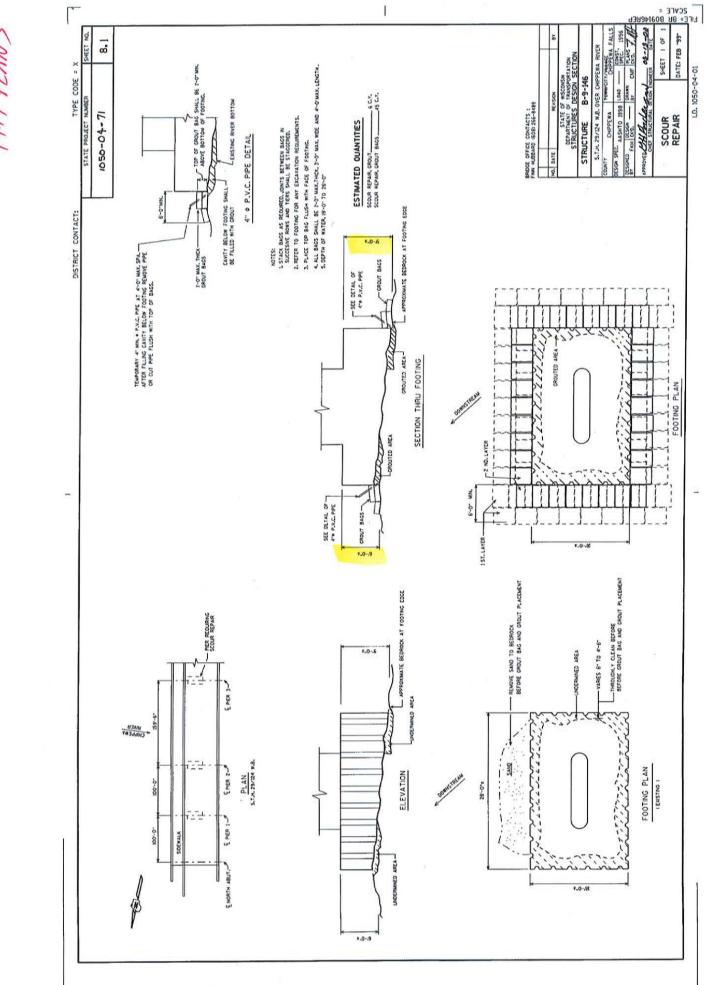
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ZOIL PLANS

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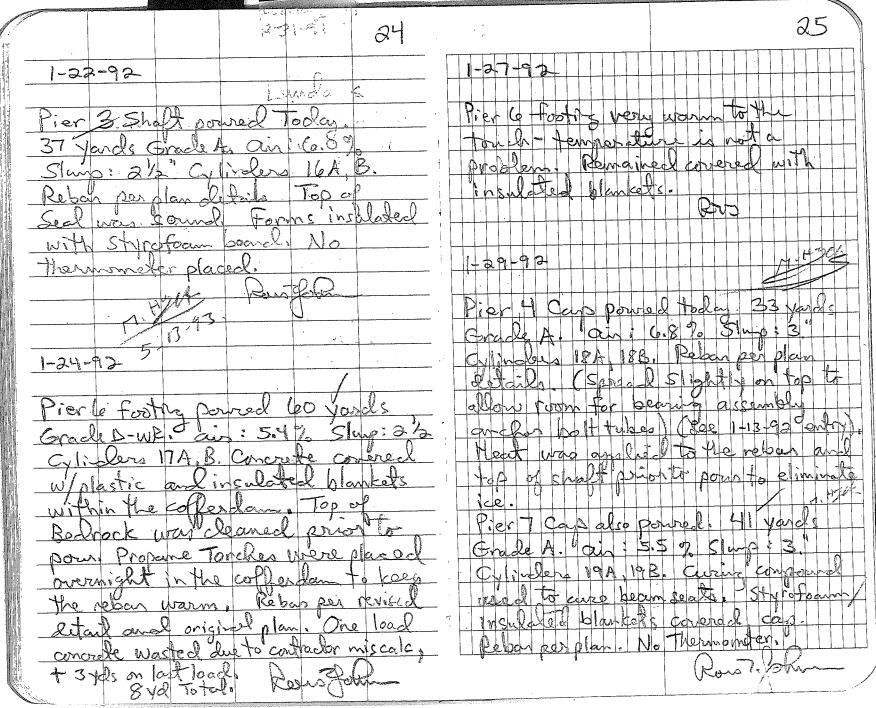




Pagg PLANS

1/9/92 18 Pier 3 Seal/Footra porrel todanie Alle yards Grade B-wik - Pate 9 por averaged 2, 1 fect / how. Tremmie was used correctly. Bottom of river was approximately a feet nigher than shown on plan and nore level; the top of tosting was raised to compensate. Deban letails. Concrete From A-1 Chrisewa air 68, 7,8,600 \$ Shunis 8" 13,0" Cylinders 11A, B. 2A, B. One load of concrete rejected due to excern Shump.	19 Pier 5 Com porred today 33 youds Sault A From A-1 chipewar, Cyl 134 3. an 5:62 Slupe 234. Forms insulited with B=5 Poystyrene Baands also Tep - Cons. Thermander pieced Reban per pien letails except that #11 Boins (P1115) were spaced approx. I' wider a Beanity assembly andlan bolt locations to ensure mather bolts Fit. Condboard Tuber wore set in the conste a andre mather bolts between the P115 bars to be granded in later. Tube D1A = 3! and of Bars and a set of a bars to be granded in later. Tube D1A = 3! Typical Cop As built Typical Cop As built	
-	b	



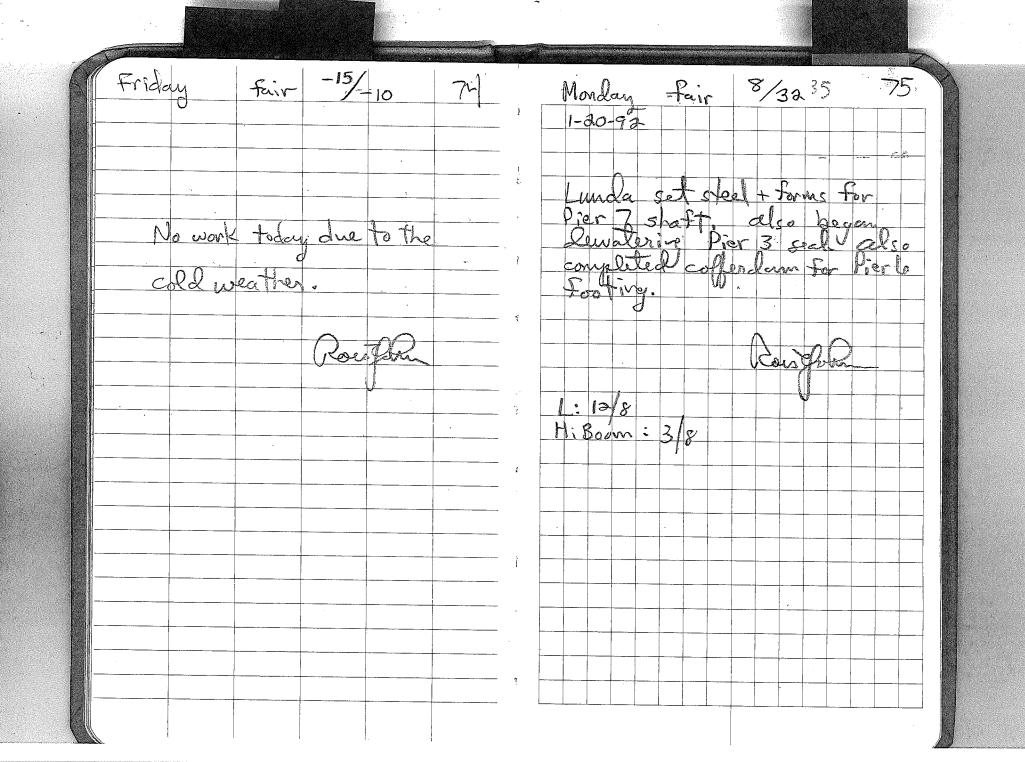


Thursday Fair 32/35 Friday Fair. 12-27-91 Fair. 28/36 58 59 Lunda set Rings For Pier 3 Cofferdam. Also worked on Forms For Pier 8 Pier Cap. Lunda worked on fior 3 Ring and Pier 8 cap Formwork Mike stopped by - no problems. worked on fior 3 Rings Rob Kha Z 1:12/8 . .

Monda 28/35 Theoday fair 30/35 fair 60 61 12-30-91 Lunda stroged Pier 8 and Pier 5 Today. Continued work on Pier 3 coffeedam (chert piling) They intend to work tomorrow and tee unda Forms for Pier & Pier Cap. Began to dewater Pier 4 Cofferdam, Works D on lier ? Pier 3 Cofferdam sheeting Mark Servi asked about hou Possibly New Year's Day, Mark Servi called and said that 1052-04-71 The parapets (Parapet c) should be should be complete by the end of Supported under the portions not on the deck. I said two extra piling February. d one south end) would These will help support one north and two ends of Parapet C. asked Servi to give us the Frequency of Lunda's radios (Dan can get crystals) or a bo 15m Tarran crustals) or a boat Cunda: 12/8 w/motor so we can better communicate w/ Mark Gehl while hes Hi-Boom: 2/8 on the river barges Reistor L: 159 Hiboom: 2/8

Tuesday Wednesday Snow 30/23 Fair 30/34 66 1-7-92 67 unda tied steel for Pier 3 -unda worked on Dier 3 seal Fostiler jalso Pier 5 Caps. Repared Forme For Pier 5 C. re-ban, also Pier 5 Cap Formis steel the Le O. Visiter Winter Storm is Forecas Os d Bridge tomorrow so Lunda man not work it it's top adverse conditions. will re- lesion Pier 6 Factor to and discovery that the đ advock is lower the shour he plan, Back weather forced work to stop today @ 2:00 PM. Ironw staved to Finich trive re.bas, Wonworkers 17 Row Rough I L: 12/8 Hi-boom: 3/8 15/6 Hi-Boom: 3/8

Thursday 1-9-92 Sair 26/28 Friday 1-10-92 68 28 69 Pier 3 said/fating Poure unda re-ban An Pier 5 Cap set port :11 For Pier, ringe 5 R idge office Pier can be ρx and a cofferdam E for posting. revised design for Pier 6 The Footing Ronoge unda: 1219 Hi-boom : BR unda: 10/9 Hibson: 3/8



Truesday Wednesday Rir 31/35 fair 11/35 76 1-22-92 Lunda poured Pier 3 shoff See Inspection Diana, They Finished excounting Pier le I gave the new Irainings for the north and south about meets to Servi. He said Lunda may nord coffendame 3-5-foot More money for Pier le Footing the opportion is Rebar work because of extract tying needed from Hi-Boom. Fill talk to Mike O. Pier 7 shaft poured today. See Inspection Diary also claymed Pier 6 cofferdam 345 feet lower plan, shallower than one nally thought. Steelwerkens of thought.) Steel we keng & tied steel & cauges for supporting Pier to footing dowels. Also tied steep for Pier 7 Cap and Pier 3 shaft. I reminded Konstan Lunda to put in Keyway in Pier 7 shaft top. Lunda: 10/s Hi-Boom: 38

