## REHABILITATION STRUCTURE SURVEY REPORT

DT1696 **⊠** Grade Separation ☐ Stream Crossing ☐ Culvert ☐ Railroad ☐ Retaining Wall □ Noise Barrier Sign Structure Other: For guidance see: http://dotnet/dtid\_bos/extranet/structures/reports-checklists.htm Design Project ID Construction Project ID Highway (Project Name) **EAU CLAIRE - CHIPPEWA FALLS** 1190-02-34 1190-02-64 Final Plan Due Date Preliminary Plan Due Date 05/01/2018 05/01/2018 **HALLIE** PS&E Date Letting Date County **CHIPPEWA** 08/01/2018 02/12/2019 Structure Number Section Town Range 28N B-09-262 36 09W Station Latitude: 445141.59 Structure Located on National Highway System 43+48.125 - 45+92.875 Longitude: 912538.03 For Survey and CADD Files **Traffic Forecast Data** Horizontal Coordinate System: Average Daily Roadway Vertical Datum: Design Year Traffic (ADT) Design Speed **Functional Class** Feature On Feature On Local-Urban 6700 40 MPH MELBY STREET 2014 Feature Under Feature Under Principal 34500 **70 MPH USH 53** 2014 Arterial Region Contact: Adam Hetrick Consultant Contact: (Area Code) Telephone Number(s): 715-836-2855 (Area Code) Telephone Number(s): Email: adam.hetrick@dot.wi.gov Fmail: Work To Be Performed **Field Information Required** Item Number (see Pages 2-4) ☑ B. Overlay.......1-3, 10-22, 26-28, 32, 34 ☐ Concrete Overlay ☐ Asphalt Overlay ☐ Polymer Modified Asphalt Overlay □ Thin Bonded Polymer Overlay ☐ Other: □ D. New Railings .......15–17, 20–23 ☐ M. Slope Stabilization......1–3, 30 ☐ P. Other: \_\_\_\_

## **Field Information Required**

If no structure number exists provide the following: Small County Map on which the location of proposed structure is shown in red and any highway relocation in green. In addition, provide Location Map of scale not less than 1" = 2000' showing the structure location and number.

$\boxtimes$	1.	Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
$\boxtimes$	2.	Outline deficient areas on existing structure plan or drawing.
$\boxtimes$	3.	Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photograph all deficient areas. Clearly label all photographs.
	4.	Provide proposed typical section for roadway and structure showing dimensions and cross slopes.
	5.	Survey beam seat or girder elevations at both sides of bridge at all substructure units.
	6.	Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 feet beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and gutter line. Take elevations along joints and at floor drains.
	7.	Show and identify starting stationing on bridge.
	8.	Record measurement, temperature of the structure, and date taken for each of the following:  (a) Joint opening measured normal to joint at centerline of roadway and both curb lines.  (b) Clearance between girder ends at piers.  (c) Distance from front face of abutment backwall to closest point of girder end measured parallel to girder.  (d) Temperature of structure determined by averaging top and under deck (if accessible) readings.
	9.	Fixed and expansion bearings - condition and orientation.
⊠1	0.	Number and width of proposed pours including construction staging sequence.
⊠1	1.	Location of existing construction joints in the deck.

Sq. Yd. <u>0</u>	
Sq. Yd. <u>0</u>	
Sq. Yd. <u>0</u>	Galvanic Anodes? NO
Sq. Ft. <u>0</u>	Galvanic Anodes? NO
Sq. Ft. <u>0</u>	Galvanic Anodes? NO
LF. <u>0</u>	Galvanic Anodes? NO
	Sq. Yd. <u>0</u> Sq. Ft. <u>0</u> Sq. Ft. <u>0</u>

## 

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
Current	6	7	7	5	7

## 

	Inventory	Operational
Current	11000	11000
Calculated Date: 6/4/2013	HS20	HS38
After		
Completed by Bridge Designer		

	☐ Yes ☐ N			Opening at		
	Туре	Owner and Contact Information	Size	Abutment	Weight	Pressure
$\boxtimes$	_	dge railing deficient? No If Yes – Replacement Rail Type:				
$\boxtimes$	18. Drains to be: ☐ Raised	☐ Closed ☐ Downspouted ☐ New				
$\boxtimes$		ined on bridge during work? No If Yes – Include sketches				
$\boxtimes$	20. Will guard rail ☐ Yes ⊠ N	be attached? No If Yes – Which corners? Existing guardrail to remain	ain at all co	orners.		
$\boxtimes$		e performed eliminate all deficiencies? No If No – Explain:				
$\boxtimes$		aste (asbestos) to be removed? No If Yes – Explain:				
$\boxtimes$	23. Wing location	(s) for surface drain anchors: NE and SE				
$\boxtimes$		No If Yes – Explain on Page 4 g, color system, containment, bid items)				
		way width: <i>(new deck / widening)</i> Ft. walk clear width: Left: Ft. Right: Ft.				
$\boxtimes$	26. Maximum inc	rease in grade line elevation 3/8 ln.				
$\boxtimes$	27. Benchmark de	escription to be shown				
$\boxtimes$	28. Desired final	cross slopes on bridge 0.02 Ft./Ft.				
		t -	:			
	30. Slope stabiliza Type: Slope:	ation, provide: CY. Ft./Ft. Fill:CY.				
		CY.				

$\boxtimes$	32.	Report submitted with Preliminary Plan requires <b>no</b> CADD file submittal (See ESubmittal instructions).
	33.	Report submitted for development of Preliminary Plan to structure design engineer requires CADD file (if available) submittal and Report submittal to Soils Engineer if project involves foundation modifications.
	34.	Coordinate with structure design engineer <b>before</b> going into the field if existing structure has no available plans, if staged construction is planned, or if there are adjoining/adjacent structures that will remain in place.
	35.	If project involves substructure widening coordinate with structure and/or hydraulic design engineer to determine if information on the separation and/or stream crossing SSR will be required.

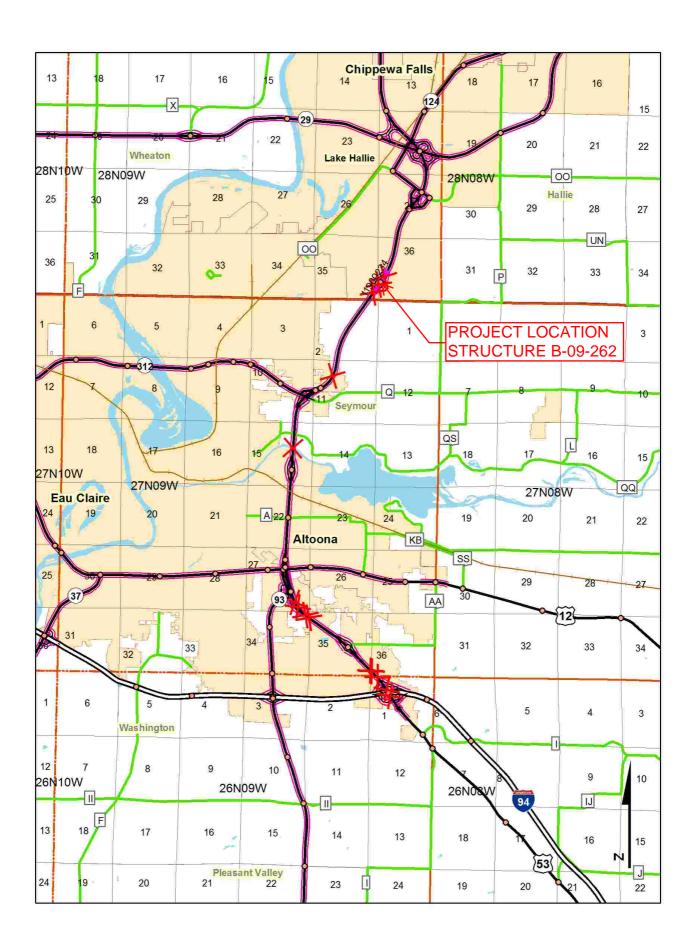
### **Additional Information**

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction.

Please be as detailed and specific as possible.

- 1.) Structure built in 2003. No repairs since construction. See attached Bridge Inspection Report.
- 2.) Deficient areas to be determined in the field by the engineer. See attached Bridge Inspection Report. A Polymer Overlay is proposed because of deficiency over the entire structure due to poor bridge deck surface. The deck has transverse cracks at the negative moment area and diagonal / longitudinal cracks with efflorescence at the abutments (Approximately 5%) and has two spalls in the SE corner. The deck has transverse cracks at the pier and diagonal cracks at the ends. The roadway approach joint is failed and settled at the median. A Polymer Overlay is also proposed for the sidewalk on the bridge.
- 3.) See attached photographs.
- 10.) This work will be constructed half at a time under traffic using single lane closures during non-peak hours with night work. All lanes will be opened to traffic daily.
- 11.) See asbuilt plans.
- 16.) No utilities on or near structure. No conflicts anticipated.
- 18.) Existing drains on the bridge deck to remain.
- 19.) This work will be constructed half at a time under traffic using single lane closures during non-peak hours with night work. All lanes will be opened to traffic daily.
- 22.) See attached Asbestos Inspection Report. No asbestos-containing material was found.
- 27.) To be determined.
- 32.) See preliminary plans.

## **CDR Map**



₽

ORDER	0F	SHEETS

Section No. 1

Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat

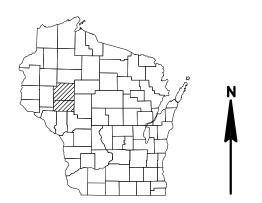
Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS =



### DESIGN DESIGNATION

A.A.D.T. A.A.D.T. D.H.V. D.D. DESIGN SPEED **ESALS** 

CONVENTIONAL SYMBOLS PI AN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT

REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE ₫ Ø TELEPHONE POLE

**PROFILE** 

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

GRADE ELEVATION

MARSH OR ROCK PROFILE

(To be noted as such)

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

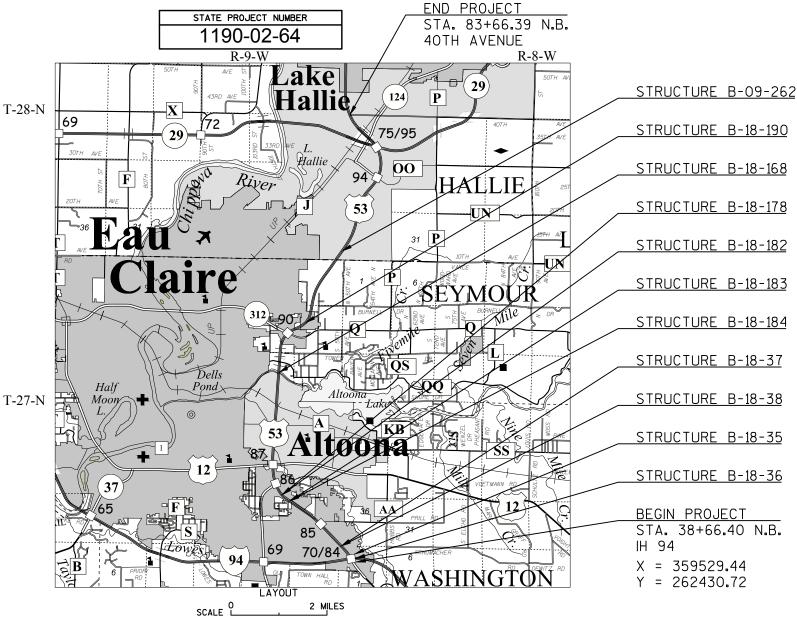
PLAN OF PROPOSED IMPROVEMENT

## **EAU CLAIRE - CHIPPEWA FALLS**

**IH 94 TO 40TH AVENUE (11 BRIDGES)** 

## **USH 53**

## **EAU CLAIRE AND CHIPPEWA COUNTIES**



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, EAU CLAIRE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

PREPARED BY WISDOT Surveyor ADAM HETRICK DAVID KOEPP REGIONAL EXAMINE TMOTHY MASON APPROVED FOR THE DEPARTMENT

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

1190-02-64

(Signature)

TOTAL NET LENGTH OF CENTERLINE = 11.26 MILES

Ε























route: 053N county: CHIPPEWA date: 08/13/2013 plm: 070.447

Lat: 44.86018488 Long: -91.42775916 Elev: 822.37 ft.

\\doteauplog1p\photolog\Rg5\053N\_R5\_2013\\Front\Dir\_073\F\_07347.jpg

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route: 053S county: CHIPPEWA date: 08/14/2013 plm: 132.763

Lat: 44.86264524 Long: -91.42598169 Elev: 817.98 ft.

\\doteauplog1p\photolog\Rg5\053S\_R5\_2013\\Front\Dir\_135\F\_13504.jpg

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# Inspection Report for B-09-262

## MELBY STREET over USH 53 May 21,2015



Туре	Prior	Frequency (mos)	Performed
Routine	05-21-15	24	X
SI&A	05-31-13	48	

Latitude 44°51'41.59"N Longitude 91°25'38.03"W Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log		Team members		
Hours 1	Minutes 10			

	Name	Number	Signature	Date
Inspector				
	Haig, Gregory	5014	Completed by HSI System Account(HSI)	
Reviewer				

## page 2

## **Identification & Location**

Feature On: MELBY STREET	Section Town Range: S36 T28N R09W	Structure Number: B-09-262			
Feature Under: USH 53	County: CHIPPEWA(09)				
USH 53	Municipality: TOWN-HALLIE(09028)	Structure Name:			

Geometry Traffic

measurements in feet, except w		Lanes	ADT	ADT year	Traffic Pattern		
Approach Roadway Width: 45	Bridge Roadway Width: 57.7	Total Length: 246.1	On	3	6700	2014	TWO WAY TRAFFIC
Approach Pavement Width: 36	Deck Width: 65.0	Deck Area (sq ft): 15996	Under	4	34500	2014	TWO WAY TRAFFIC

Capacity Load Rating

Inventory rating: HS20	Overburden depth (in): 0.0	Last rating date: 06-04-13	Controlling: INTERIOR DECK GIRDER Fatigue
Operating rating: HS38	Deck surface material: CONCRETE	Re-rate for capacity (Y/N):	Control location: SPAN 1
Posting:	Re-rate notes:		

**Hydraulic** Classification

Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficieny #: 98.7

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT PREST CONC	DECK GIRDER	54	116.7	
2	CONT PREST CONC	DECK GIRDER	54	125.7	Y

## Expansion joint(s) Temperature: File: New:

## Vertical Clearance Measurement file (ft)

Measurement file (π)	File Date	Measurement new (π)
17.19	25-Mar-2002	
18.57	25-Mar-2002	
	17.19 18.57	18.57 25-Mar-2002

page 3 Structure No.:B-09-262

## **Elements**

:iem	ients						Quantity in Co	andition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
	40		Reinforced Concrete Deck	SF	16,481	16,371	110	0	0
Х	12								
			Cracking (RC)	SF		0	110	0	0
		1130	Cracks with efflorescence in the soffit Approx	ximately	9 at each	abutment.	•		
			Wearing Surface (Bare)	SF	16,481	15,974	500	7	0
	8000		Trouming Currency	<u>,</u>	10,101	10,011		•	
			  Debonding/Spall/Patched Area/Pothole	SF	1	0	0	4	0
		3210	2 spalls at the SE corner. 1ft x 3 3ft. and 1 ft.					<u>'</u>	
			Crack (Massing Confess)		1		F00	_	
		3220	Crack (Wearing Surface) large 3 ft. long crack at the SE corner. Minor	SF	eo cracke	at pier and	500	cracks at	onds on the second
		0220	large 3 it. long crack at the 3L corner. Millor	uansvei	Se Clacks	at pier and	u ulagoliai	CIACKS AL	enus.
			Coated Reinforcing	SF	16,481	0	0	0	0
	8522		transv. cracks at the negative moment area, Diag	gonal / lo	ngitudinal d	racks w/ef	f at abutme	nts (Appro	x 5%).
			Prostranced Conserts Open Cirder	l LF	2.430	2.430	0	0	
			Prestressed Concrete Open Girder  Longitudinal cracks at girder 1 at west abutment,	1					Diagonal
Х	109		crack at girder 6 at west abutment - did not see in	2011 <b>or</b>	<b>2015</b>	east abuti	nent near t	op or web.	Diagonai
			Reinforced Concrete Column	l EA	2	2	0	0	0
Х	205		Couple horizontal cracks around both. very mino					U	
	245		Reinforced Concrete Abutment	LF	134	110	24	0	0
Х	215								
			Cracking (RC)	LF		0	24	0	0
		1130	1 crack at the corner of the beam seat at both	ends. C	ounted 13	at the eas	t abutmen	t and 10 a	t the
			west, all were superficial. Major effloresence a	and leacl	hing throu	ghout			
			Reinforced Concrete Cap	LF	60	59	1	0	0
Х	234		·	•	•				
			Cracking (RC)	l LF		0	1	0	0
		1130	Vertical crack at center.	L		0	l I	U	
			Torriban order at contain						
			Reinforced Concrete Bridge Rail	LF	492	392	100	0	0
Х	331								
			Cracking (RC)	l LF		0	100	0	0
		1130	Normal cracking throughout.		1				
Х	8400		Integral Wingwall  Minor washing around both north wings. Major v	EA	4	4	0	0	0

page 4 Structure No.:**B-09-262** 

## **Assessments**

7,00	COOMIC						Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Deck	EA	2	0	0	0	2
X	9004		Major washout at NE corner with loss of fill in	the app	roach. Co	ounty was	notifies ar	nd is being	repaired.
			Median	EA	2	1	1	0	0
X	9007		cracks at neg moment areas - settlement of ends	Scaling	all along	the edge o	of sidewall	<b>C.</b>	
			Slope Protection- Crushed Aggregate with Bit.	EA	2	0	2	0	0
X	9043		very weedy needs to be sprayed. Very loose.					•	
	9167		Steel Diaphragm	EA	36	36	0	0	0
X									
			Approach Roadway - Concrete (non-structural)	EA	2	0	2	0	0
X	9322		Approach joint failed. Settled at median 2".						
			Decorative Rail	EA	2	0	2	0	0
X	9335		Coating is peeling off the railing.						

## **NBI** Ratings

	File	New
Deck	6	6
Superstructure		7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

## **Structure Specific Notes**

Inspection	Chasifia	Mataa

## **Inspector Site-Specific Safety Considerations**

## Structure Inspection Procedures

## **Special Requirements**

	Chk	Comments
Traffic Control		
Access Equipment		
Other		

## **Construction History**

Year	Work Performed	FOS id	
2003	NEW STRUCTURE	1190-00-80	

## **Maintenance Items History**

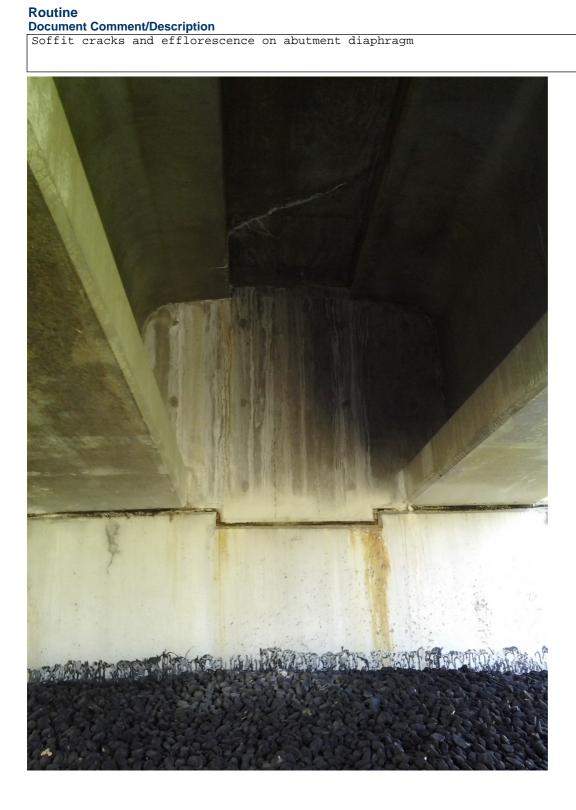
Item Recommended by Status Status change Year completed

page 5 Structure No.:B-09-262

## **Maintenance Items**

Item	Priority	Recommended by	Status	Status change					
Drainage - Repair Washouts / Erosion	CRITICAL	Haig, Gregory (5014)	IDENTIFIED	05/26/15					
To be repaired immediately. County is already on scene.									
IMP-Polymer Modified Overlay		Haig, Gregory (5014)	IDENTIFIED	05/26/15					
	<u> </u>	_1							

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page 7 Structure No.:B-09-262

## Routine Document Comment/Description

Cracks in West abutment



page 8 Structure No.:B-09-262

Routine
Document Comment/Description
Cracks with efflorescence at west abutment.



page 9 Structure No.:B-09-262

# Routine Document Comment/Description Washout at NE corner.



page 10 Structure No.:B-09-262

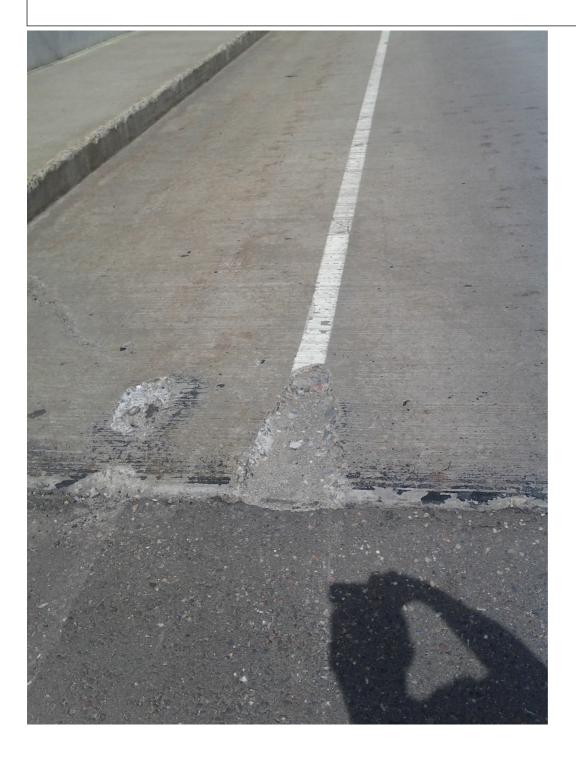
## Routine Document Comment/Description

Washout at NE corner. Goes about 15-20 ft. under approach.



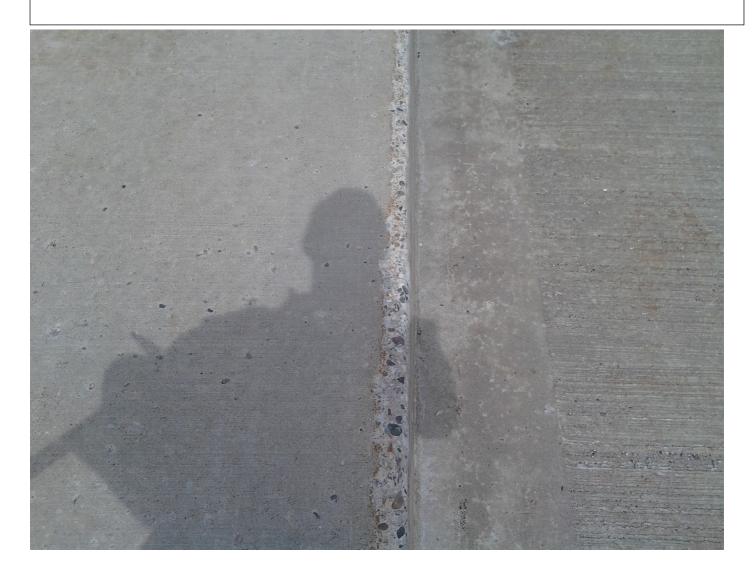
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Routine
Document Comment/Description
Spalls and crack at SE corner.



page 12 Structure No.:B-09-262

# Routine Document Comment/Description Scaling along sidewalk



page 13 Structure No.:B-09-262

Routine
Document Comment/Description
Failing approach at east end.



## Wisconsin Dept. of Transportation Structure Inventory Data

## **Bridge B090262**

B090262	Municipality: TOWN- HALLIE(09028)	Section:	Town:	Agency: STATE	Owner: STATE HIGHWAY DEPT
Replaced Structure No.:	Historical Sig.: 5		<b>Longitude:</b> 912538.0	County: CHIPPEWA(09)	District: 6

**ABUTMENT DATA (CARDINAL)** 

ABUTMENT DATA (CARDINAL)	ABUTMENT DATA (NON-CARDINAL)
1. Abutment Type: SILL/SEMI EXP/RECT	1. Abutment Type: SILL/SEMI EXP/REC
2. Pile Type: STEEL	2. Pile Type: STEEL
<b>3. Pile Size:</b> 305 MM (12")	<b>3. Pile Size:</b> 305 MM (12")
4. Slope Protection Type: STAB CR STONE	4. Slope Protection Type: STAB CR STON
5. Rdwy. Width: 57.7 ft	5. Rdwy. Width: 57.7 ft
6. Deck Width: 65.0 ft	6. Deck Width: 65.0 ft
7. Wing Type: PARALLEL TO ROADWAY	7. Wing Type: PARALLEL TO ROADWAY

### ADDDOACH DATA

GEOMETRIC DATA
1. Structure Length: 246.1 ft (Back to Back Abuts. Along Rrdwy. Centerline)
2. No. Lanes On: 3
3. L. Sdk. Width On: 0.0 ft
4. R. Sdk. Width On: 6.0 ft
5. Median Type:
6. Median Width: 5.9 ft
7. Skew Angle: 0 Deg.
8. Direction Skew Angle:
9. Horizontal Curve: 0.0 Radius, ft
10. DirHor. Curve:
11. Girder Spacing: 6.6 ft
12. Height: 54.0 ft (Top Pier Footing to Top Deck or Streambed Elev. to Top Deck)
13. NBI Bridge Length Met: true

APPROACH DATA
1. Appr. Pavement Width: 36 ft
2. Rt. Shoulder Width: 4 ft
3. Lt. Shoulder Width: 5 ft
4. Total Width (Sum Above): 45 ft
5. Guardrail Termination: 1
6. Guardrail Adequacy: 1
7. Railing Attachment Type:
8. Railing Design Year: 1965 AASHO
9. Left Outer Railing Type: SLOPED FACE PARAPET LF (91)
<b>10. Right Outer Railing Type:</b> TYPE A ROADWAY - STEEL(1)
11. Left Inner Railing Type:
12. Right Inner Railing Type:

**ABUTMENT DATA (NON-CARDINAL)** 

### **CAPACITY DATA**

ON NOTE DATA
1. Design MS: HS20
2. Inventory MS: HS24.4
3. Operating MS: HS57.8
4. Max. Veh. Wt.: 250 kips
5. Load Rating Basis.: LFR
6. Load Governing Member: DECK GIRDER
7. Deck Composition:
8a. Deck Membrane:
8b. Deck Surface: CONCRETE

## **HYDRAULIC DATA**

1. Design Flood Frequency: 0 yrs
2. Design Discharge: 0 cu-ft/s
3. Max. Velocity: 0.0 ft/s
4. Drainage Area: 0.0 sq. ft
5. High Water Elev.: 0.0 ft
6. Scour Critical Code: N
7. Scour Calculated?: false

## APPRAISAL LIPDATE

AFFRAISAL OFDATE
1. Load Capacity: 5-LEGAL LOAD STRESS NOT EXCEEDED
2. Geom. On: 9-COND EXCEED DESIRABLE CRITERIA
3. Geom. Under: 6-COND EQUAL TO MIN CRITERIA
4. Appr. Align: 8-COND EQUAL DESIRABLE CRITERIA
5. Horiz. Align:
6. Vert. Align:

## DI ANNING DATA

STRUCTURE SERVICE DATA 1. Hwy. On Detour Length: 3 ft 2. Type Service On: HIGHWAY
3. Type Service Under: HIGHWAY

PLANNING DATA	
1. Functional Classification	: LOCAL-URBAN(19)
<b>2. ADT</b> : 2250	
3. ADT-Year: 2004	
4. Truck ADT %: 0	
<b>5. Future ADT:</b> 3700	
6. Future ADT-Year: 2024	

### **CONDITION DATA**

Deck: 6	SuperStructure: 7	SubStructure: 7	Channel: N
Culvert: N	Waterway: N		

## **Bridge B090262**

**CONSTRUCTION DATE** 

Project ID	Construction Contractor	Construction Designer	Construction Year	Plans Reel Number	Letting Date	Survey Received	Work Performed
1190-00-	HOFFMAN CONST.	WESTBROOK ASSOCIATE D ENGINEERS		PLAN	11-Jun- 2002	05-Feb- 2002	NEW STRUCTURE

**CLEARANCE DATE** 

Clearance Lane Number	Minimum Vertical	Minimum Vertical Date	Minumum Horizontal Distance	Right Minimum Lateral
	18.57	25-Mar-2002	67.5	31.5
	17.19	25-Mar-2002	77.5	25.8

Left Minimum Lateral	Railroad Right Minimum Lateral	Railroad Left Minimum Lateral	Railroad Vertical Distance	Railroad Horizontal Distance
12.0				
27.9				

## **ROUTE DATE**

Number	Direction	Туре	Structure Route On / Under	Structure Route Cardinal / NonCardinal
	E		0	С
053	N		U	C
053	S		U	N

Number	Structure Route Location	Highway Feature Name	Structure Route Local System	Highway Feature Designation
	USH 53	MELBY STREET	LRD	MAINLINE
053	MELBE ST	USH 53	USH	MAINLINE
053	MELBE ST	USH 53	USH	MAINLINE

Number	Structure Route Primary Flag	Designed National Network Flag	Structure Defense Highway Designation	Highway On Inventory Route
	Y	N	0	NON
053	Y	N	0	NHS
053	N	N	0	NHS

### PIER DATE

Number	Pier Type	Piling Type	iling Type Piling Size		Direction of Skew
1	HAMMERHEAD	STEEL	305 MM (12")		

## **SPAN DATE**

Number	Type	Length	Configuration	Material	Girder or Truss Height	Girder or Truss Spacing
1		116.7	DECK GIRDER	CONT PREST CONC	54.0	6.6
2		125.7	DECK GIRDER	CONT PREST CONC	54.0	6.6

## **EXPANSIONJOINT DATE**

Number Location Type
----------------------



## **Bridge Asbestos Inspection Report**

WisDOT Project ID: 1190-02-34 Structure Number: B-09-0262

Structure Name: Melby Street over USH 53 City/County: Town of Hallie, Chippewa County Lat/Long Coordinates: 445141.59/ 912538.03 TRC Project Number: 235777.0000.0000

Date Inspected: June 22, 2015

Inspected By/License Number: Nathan Braun, All-206950

## Findings:

The inspection to identify and collect samples for potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedure for bridge inspections found in FDM 21-35-45.

None of the materials that were identified as potentially ACM and sampled tested positive for asbestos. The work on this bridge can proceed as planned. Standard Special Provision (STSP) 107-125 should be included in the specifications.

				Friable/	Quantity
Sample	Sample	Sample	Analytical Results and	Non-friable or No	of ACM
Number	Description	Location	Method	ACM	Material
1	Concrete	Parapet	PLM, non-detect	No ACM	0
2	Concrete	Parapet	PLM, non-detect	No ACM	
3	Concrete	Parapet	PLM, non-detect	No ACM	
4	Concrete	Sidewalk	PLM, non-detect	No ACM	0
5	Concrete	Sidewalk	PLM, non-detect	No ACM	
6	Concrete	Sidewalk	PLM, non-detect	No ACM	
7	Concrete	Abutment	PLM, non-detect	No ACM	0
8	Concrete	Abutment	PLM, non-detect	No ACM	
9	Concrete	Abutment	PLM, non-detect	No ACM	
10	Concrete	Deck	PLM, non-detect	No ACM	0
11	Concrete	Deck	PLM, non-detect	No ACM	
12	Concrete	Deck	PLM, non-detect	No ACM	

Sample	Sample	Sample	Analytical Results and	Friable/ Non-friable or No	Quantity of ACM
Number	Description	Location	Method	ACM	Material
13	Paint	Fence	PLM, non-detect	No ACM	0
14	Paint	Fence	PLM, non-detect	No ACM	
15	Paint	Fence	PLM, non-detect	No ACM	
16	Caulk	Around fence	PLM, non-detect	No ACM	0
		attachment plate			
17	Caulk	Around fence	PLM, non-detect	No ACM	
		attachment plate			
18	Caulk	Around fence	PLM, non-detect	No ACM	
		attachment plate			
19	Caulk	Parapet expansion	PLM, non-detect	No ACM	0
		joint			
20	Caulk	Parapet expansion	PLM, non-detect	No ACM	
		joint			
21	Caulk	Parapet expansion	PLM, non-detect	No ACM	
		joint			
22	Concrete	Girder	PLM, non-detect	No ACM	0
23	Concrete	Girder	PLM, non-detect	No ACM	
24	Concrete	Girder	PLM, non-detect	No ACM	
25	Paint	Abutment	PLM, non-detect	No ACM	0
26	Paint	Abutment	PLM, non-detect	No ACM	
27	Paint	Abutment	PLM, non-detect	No ACM	

If you have any questions, please contact me, at (608) 826-3628.

TRC Environmental Corporation

Danul Hank

Daniel Haak Project Manager Nathan Braun Asbestos Inspector

Nathan Breen

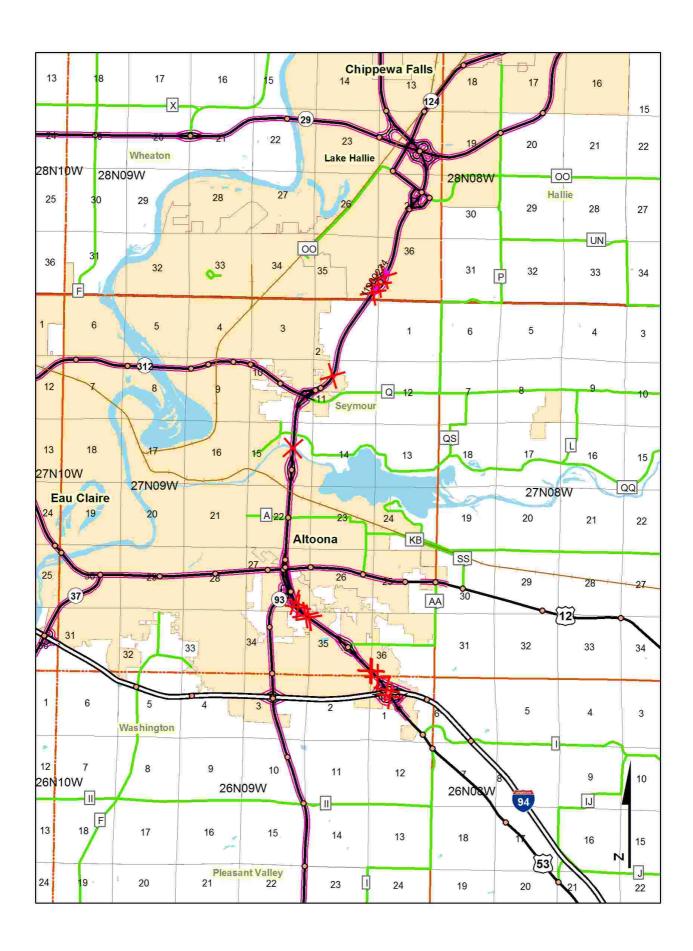
Attachments: Location Map, Photos, Laboratory Report



## Report Distribution:

Recipient	Electronic (PDF) Copy	Paper Copy
BTS-ESS sharlene.tebeest@dot.wi.gov	X (via email)	X
REC amy.adrihan@dot.wi.gov;	X (via email)	
nicholasA.schaff@dot.wi.gov		
Project Manager david.koepp@dot.wi.gov	X (via email)	
Other		

## **CDR Map**



# B-09-0262





Concrete on parapet



Concrete on sidewalk



Concrete and paint on abutment



Concrete on deck



Paint on fence



Caulk around fence attachment plates



Caulk in parapet expansion joint



Concrete on girder

Industrial Hygiene Laboratory 21 Griffin Road North Windsor, CT 06095 (860) 298-6308



## **BULK ASBESTOS ANALYSIS REPORT**

CLIENT: Wisconsin Department of Transportation

Lab Log #:

0046145

Project #:

235777.0000.0000

Date Received:

06/24/2015

Date Analyzed:

06/25/2015

Site:

DOT Bridge Inspection, B-9-262

## POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi- Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
B-9-262 (1)	Grey	Yes	No	r= =		ND	None
B-9-262 (2)	Grey	Yes	No			ND	None
B-9-262 (3)	Grey	Yes	No			ND	None
B-9-262 (4)	Grey	Yes	No			ND	None
B-9-262 (5)	Grey	Yes	No			ND	None
B-9-262 (6)	Grey	Yes	No			ND	None
B-9-262 (7)	Grey	Yes	No			ND	None
B-9-262 (8)	Grey	Yes	No			ND	None
B-9-262 (9)	Grey	Yes	No			ND	None
B-9-262 (10)	Grey	Yes	No			ND	None
B-9-262 (11)	Grey	Yes	No			ND	None
B-9-262 (12)	Grey	Yes	No			ND	None
B-9-262 (13)	Black	Yes	No			ND	None
B-9-262 (14)	Black	Yes	No			ND	None
B-9-262 (15)	Black	Yes	No			ND	None
B-9-262 (16)	Grey	Yes	No	,		ND	None
B-9-262 (17)	Grey	Yes	No			ND	None

Industrial Hygiene Laboratory 21 Griffin Road North Windsor, CT 06095 (860) 298-6308



### POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi- Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
B-9-262 (18)	Grey	Yes	No			ND	None
B-9-262 (19)	Grey	Yes	No			ND	None
B-9-262 (20)	Grey	Yes	No			ND	None
B-9-262 (21)	Grey	Yes	No			ND	None
B-9-262 (22)	Grey	Yes	No			ND	None
B-9-262 (23)	Grey	Yes	No	<b>-</b> 2/1 <b>-</b>		ND	None
B-9-262 (24)	Grey	Yes	No	1=H=		ND	None
B-9-262 (25)	Grey	Yes	No			ND	None
B-9-262 (26)	Grey	Yes	No			ND	None
B-9-262 (27)	Grey	Yes	No			ND	None

Reporting limit- asbestos present at 1%

ND - ashestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2015. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Reviewed by: Analyzed by: **Date Issued** Kathleen Williamson, Laboratory Manager 06/26/2015 Amanda Parkins, Laboratory Analyst

0

C AIR Jon or INDEX OF SHEETS

> Sheet No. 1 Title Sheet No.2-1-2.73 Typical Sections and Details Sheet No.3/-3.7 Estimate of Quantities Sheet No.3A-3R Miscellaneous Quantities Sheet No. 4.1-4.4 B Right of Way Plat

Sheet No.5.1-5.36 Plan and Profile Sheet No.6.1-6.55 Standard Detail Drawings Sheet No. 7.1-7.28 Sign Plates Sheet No.8.1-8.21 Structure Plans

Sheet No. 9.1-9.7 Computer Earthwork Data Sheet No.9.8-9-233Cross Sections

TOTAL SHEETS = 520

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT.

## FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1190-00-80

#### - CHIPPEWA FALLS ROAD CLAIRE EAU

LASALLE ST. - C.T.H. 00

U.S.H. 53

EAU CLAIRE / CHIPPEWA COUNTY

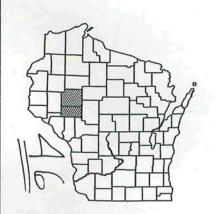
STATE PROJECT NUMBER

## AS BUILT PLAN

PROJECT ENGINEER JEFFREY P. SWANSON GENERAL CONTRACTOR HOFFMAN CONST. CO

BEGIN & END CONSTRUCTION B19/02-8/29

CONTRACT COST \_ 8,489, 610, 65



#### DESIGN DESIGNATION

ESALS

A.D.T. (2004) = 25600 A.D.T. (2014) = 29500 (2024) D.H.V. = 33600 = 50/50 = 5.9 DESIGN SPEED = 70 MPH

= 6,453,200

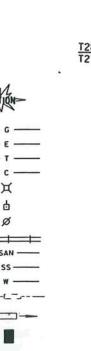
#### CONVENTIONAL SYMBOLS

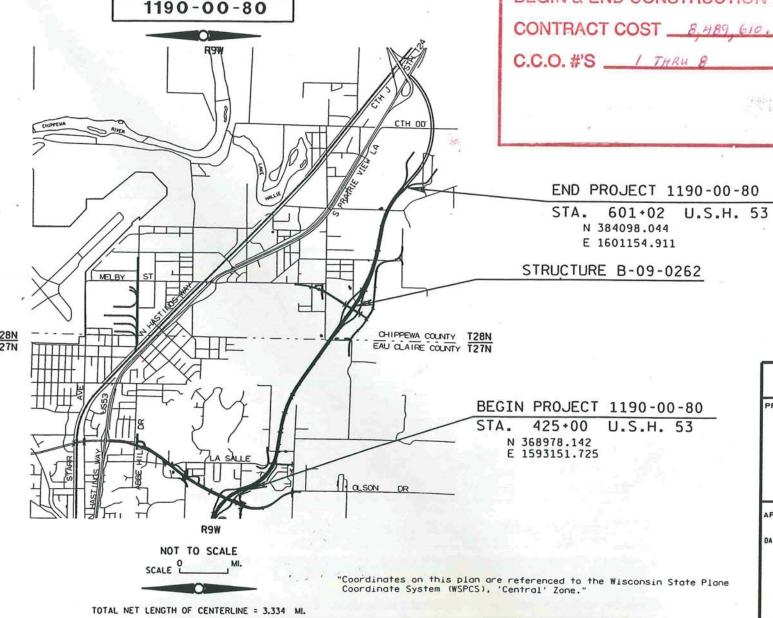
COUNTY LINE CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SURVEY LINE SLOPE INTERCEPT ORIGINAL GROUND \_ ROCK MARSH OR ROCK PROFILE

WOODED OR SHRUB AREA

P.L. + 58.1 ELECTRIC POWER POLE TELEPHONE POLE RAILROAD SANITARY SEWER STORM SEWER WATER

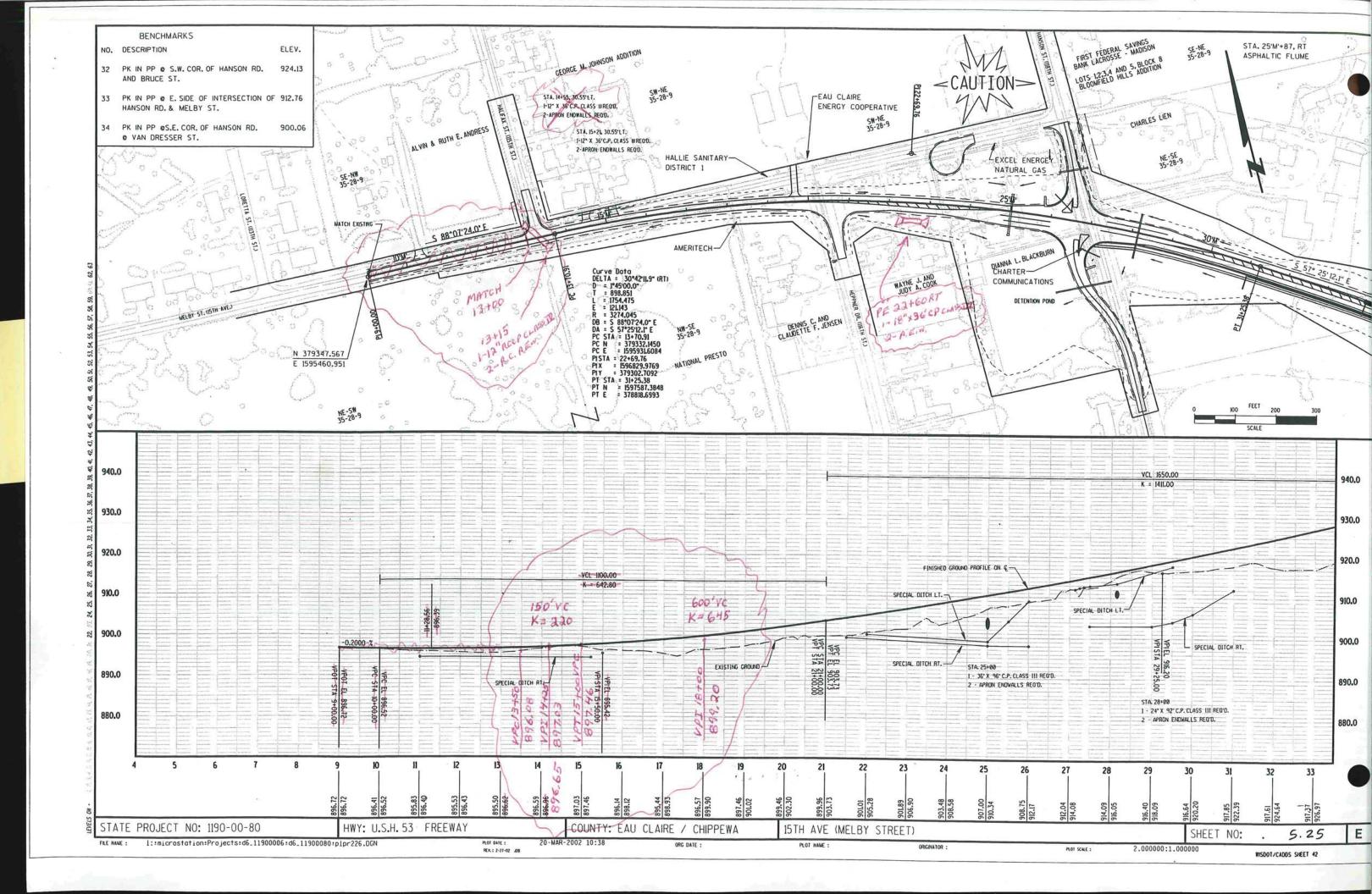
COMBUSTIBLE FLUIDS UNDERGROUND UTILITIES TELEPHONE OR TELEGRAPH COMMUNICATIONS LINE SERVICE PEDESTAL 4 EXISTING CULVERT PROPOSED CULVERT CULVERT (Profile View)

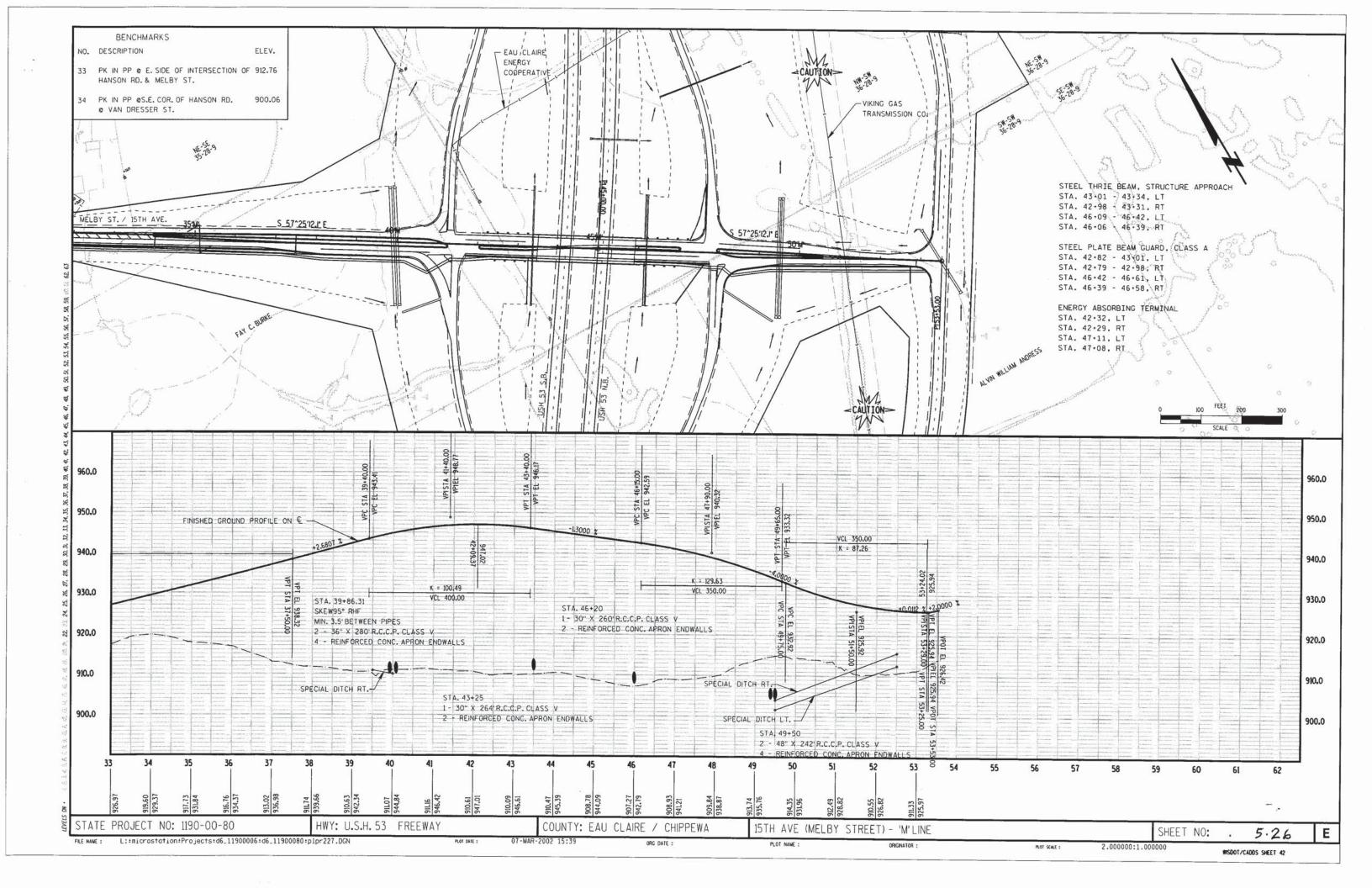


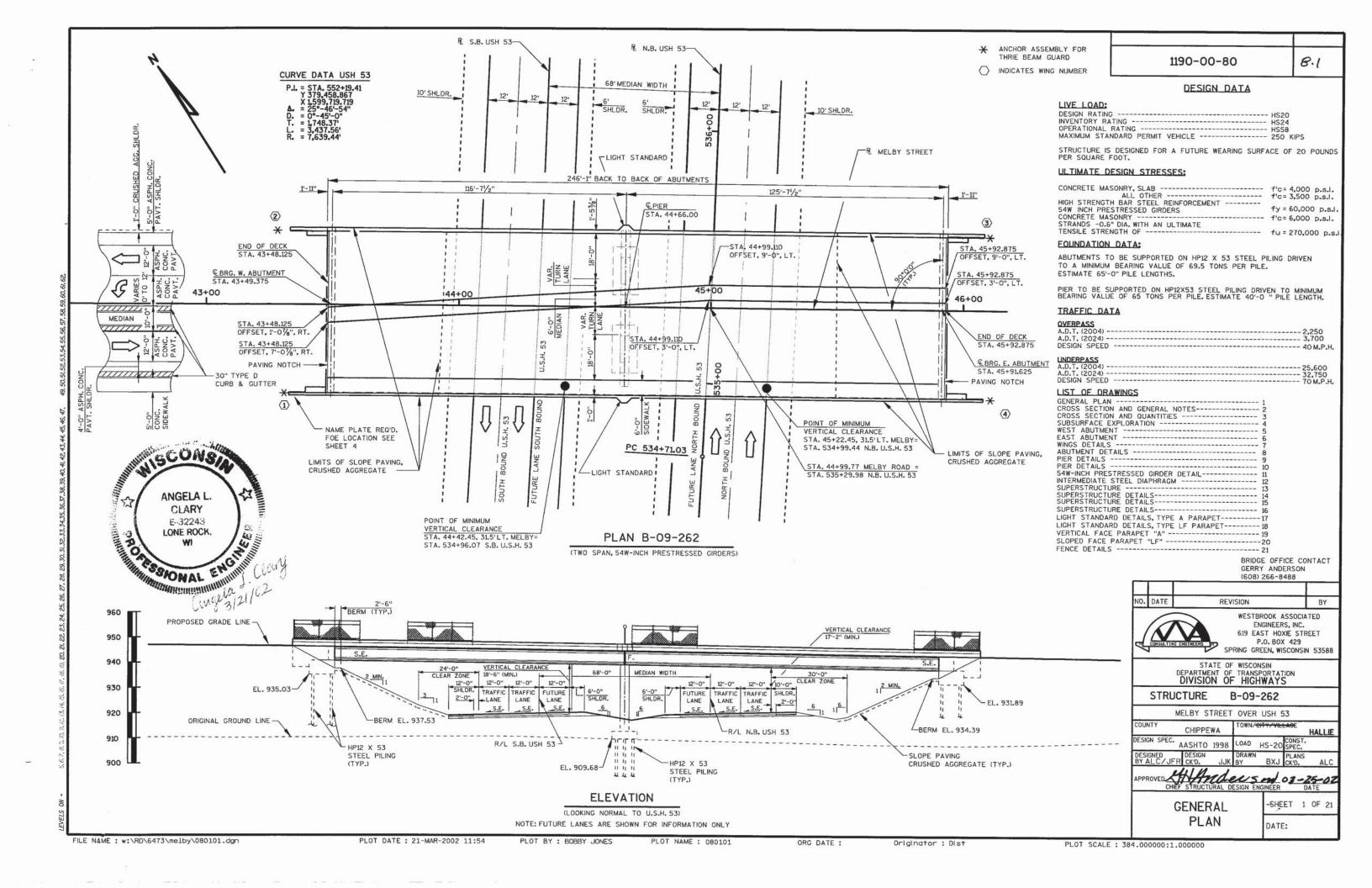


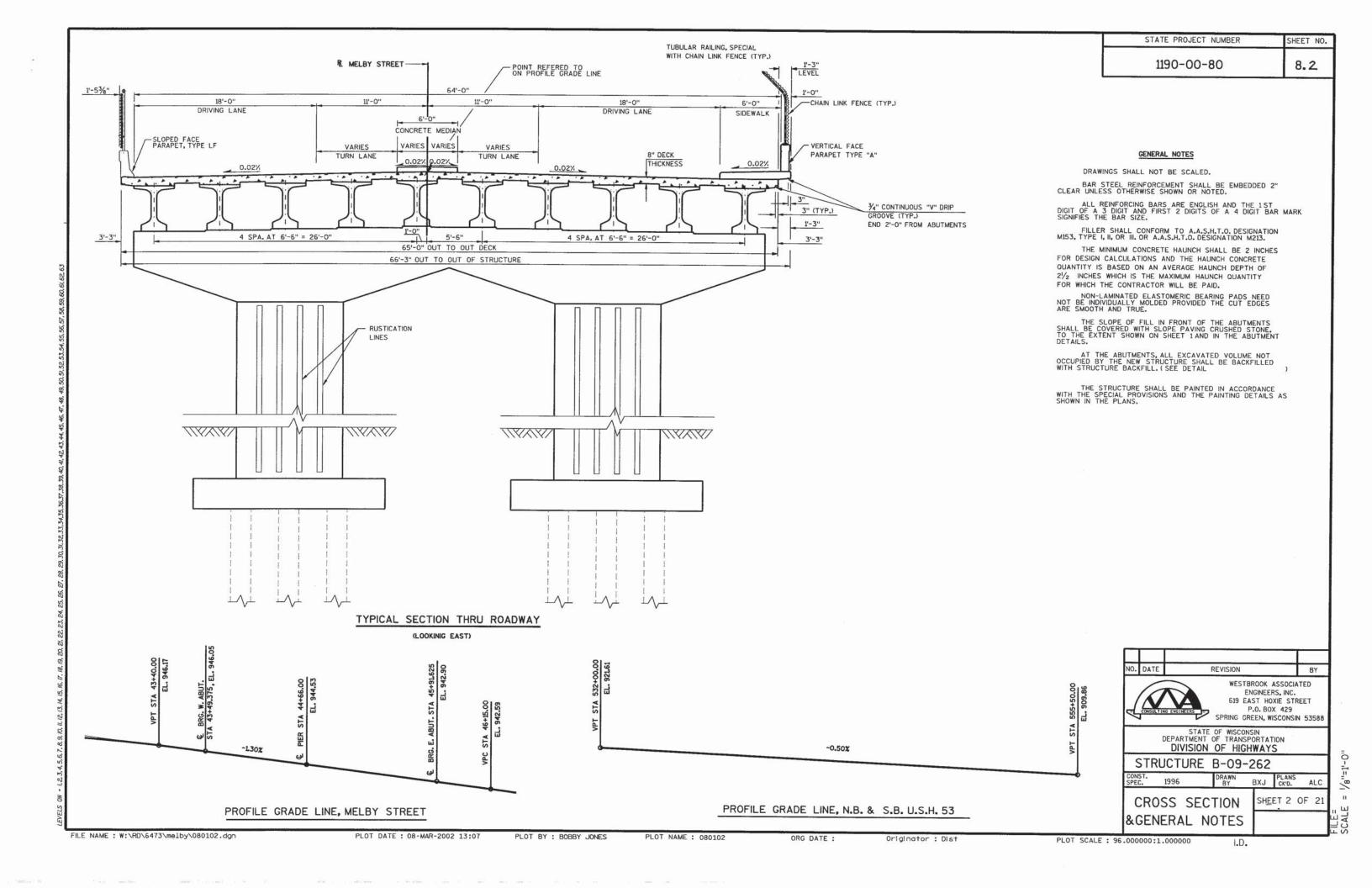
#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY DTD DIST. 6 Surveyor Designer MIKE BERTHOLD District Examine LARRY JONES C. BUJANOWSKI

PPROVED FOR DISTRICT OFFICE

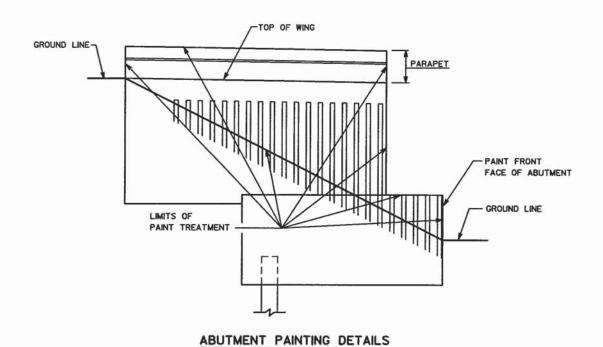


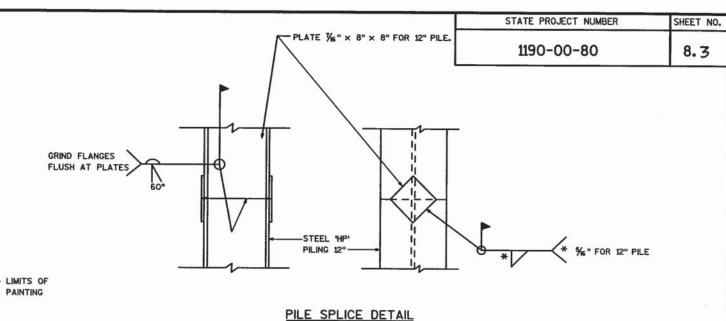






SUPERSTRUCTURE PAINTING DETAILS





TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	W. ABUT	PIER	E. ABUT	SUPER.	TOTAL
EXCAVATION FOR STRUCTURES, BRIDGE B-09-262	L.S.					1
STRUCTURE BACKFILL	C.Y.	370		370		740
CONCRETE MASONRY, BRIDGES	C.Y.	62.7	153.2	62.7	1,166.2	1,444.8
PROTECTIVE SURFACE TREATMENT	S.Y.				1,925	1,925
PRESTRESSED GIRDER, I-TYPE, 54W-INCH	L.F.				2,430	2,430
HIGH-STRENGTH BAR STEEL, REINFORCEMENT, BRIDGES	LB.	3,940	4,620	3,940		12,500
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	1,820	32,370	1,820	135,580	171,590
NON-LAMINATED ELASTOMERIC BEARING PADS	EACH	10	20	10		40
STEEL DIAPHRAGMS, STRUCTURE B-09-262	EACH				36	36
STEEL PILIING, DELIVERED AND DRIVEN, HP12-INCH 53 POUND	L.F.	1,170	1,440	1,170		3,780
RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	97.5		97.5		195
SLOPE PAVING, CRUSHED AGGREGATE	S.Y.	375		325		700
PIPE UNDERDRAIN, 6-INCH	L.F.	93		93		186
PIPE UNDERDRAIN, UNPERFORATED, 6-INCH	L.F.	10		10		20
GEOTEXTILE FABRIC, TYPE DF	S.Y.	75		75		150
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2		2		4
CONSTRUCTION STAKING, STRUCTURE LAYOUT, STRUCTURE, B-09-262	EACH				1	1
NONMETALLIC, CONDUIT, SCHEDULE 40, 2-INCH	L.F.				570	570
NONMETALLIC, CONDUIT, SCHEDULE 40, 3-INCH	L.F.				570	570
PULL BOXES, STEEL, 24 X 36-INCH	EACH				4	4
JUNCTION BOXES, 8 X 8 X 8 INCH	EACH				2	2
CHAIN LINIK FENCE VINYL COATED, 8 FT.	L.F.				547	547
ANCHOR ASSEMBLIES, LIGHT POLES	EACH				2	2
CONCRETE MASONRY, ANCHORS, TYPE S, 1/2-INCH	EACH				328	328
PAINTING CONCRETE, STRUCTURE, B-09-262	S.Y.	52	208	52	671	983
QUALITY MANAGEMENT PROGRAM, READY-MIXED CONCRETE MASONRY FOR BRIDGES	C.Y.	62.7	153.2	62.7	1,166.2	1,444.8
QUAILITY MANAGEMENT PROGRAM, MASONRY STRENGTH INCENTIVE, READY MIXED CONCRETE	DOL.	627	1532	627	11662	14448
						1/2" & 74"
NON-BID ITEMS						
FILLER	SIZE					

BENCH	MARKS

NO.	DESCRIPTION	ELEV.
28	PK NAIL IN POWER POLE N. COR. 50th AVE & NORDIC DR.	937.39
30	PK NAIL IN BOTTOM OF FENCE POST NEAR TEL PED W. OF COR. OF NORDIC DR. & HANSON RD.	953,73
32	PK NAIL IN POWER POLE @ S.W. COR. OF HANSON RD. & BRUCE ST.	924.13
33	PK NAIL IN POWER POLE & E. SIDE OF INTERSECTION OF HANSON RD. & MELBY ST.	912.76
34	PK NAIL IN POWER POLE & S.E. COR. OF HANSON RD. & VAN DRESSER ST.	900.06

NO. DATE REVISION

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET P.O. BOX 429

SPRING GREEN, WISCONSIN 53588

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-09-262 1996 BXJ PLANS

DETAILS & QUANTITIES SHEET 3 OF 21

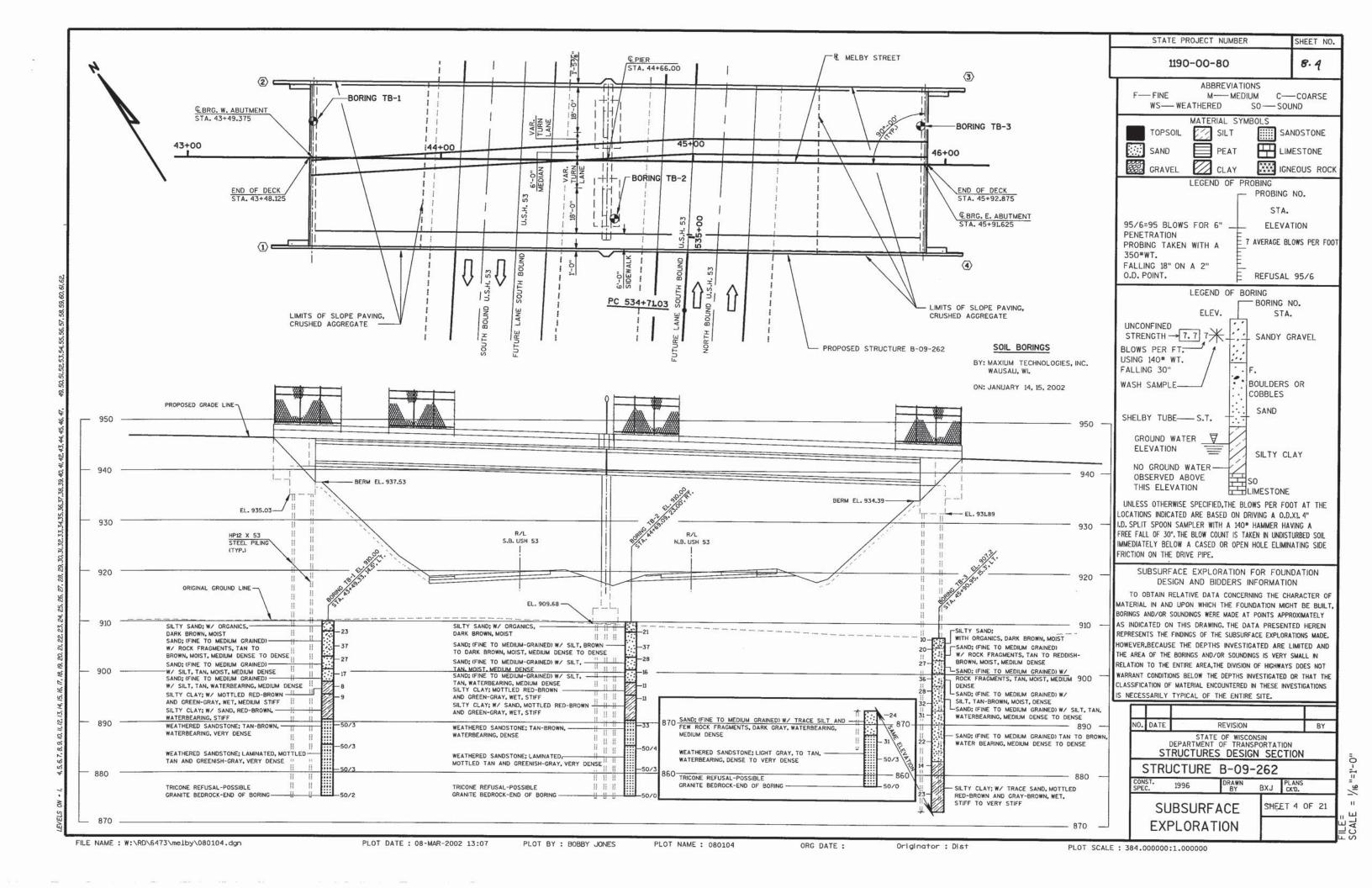
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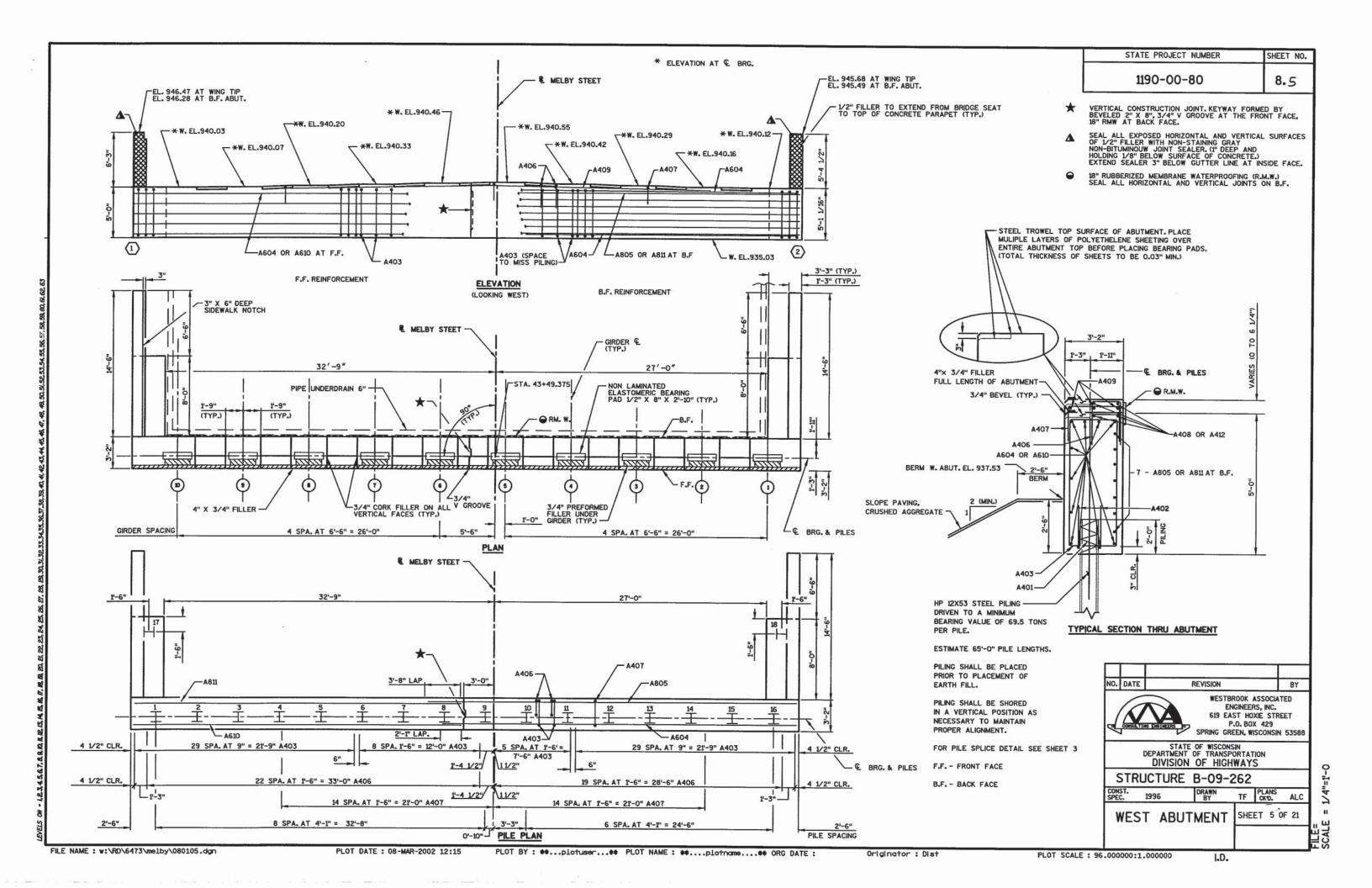
PLOT DATE: 19-MAR-2002 14:26

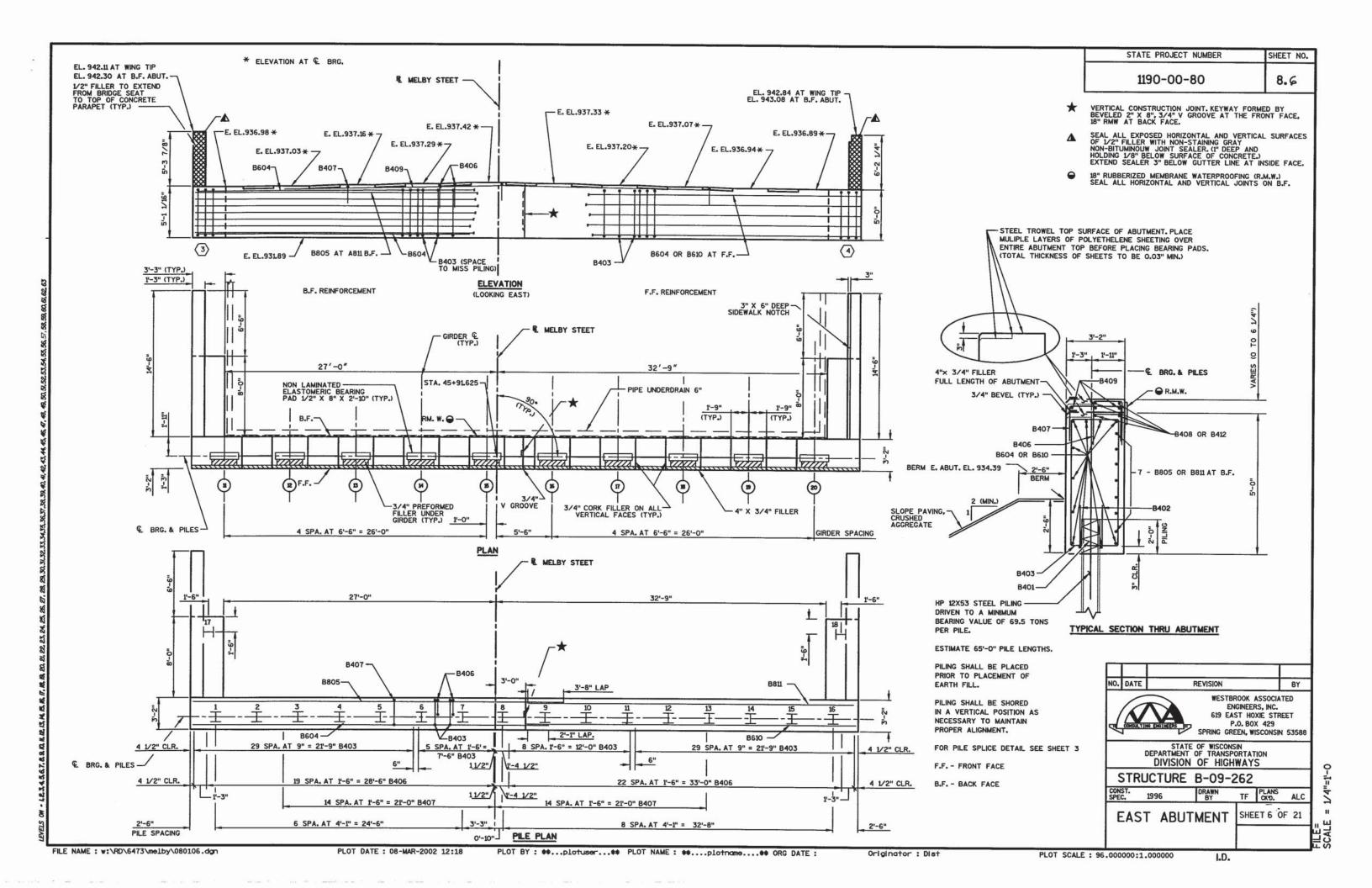
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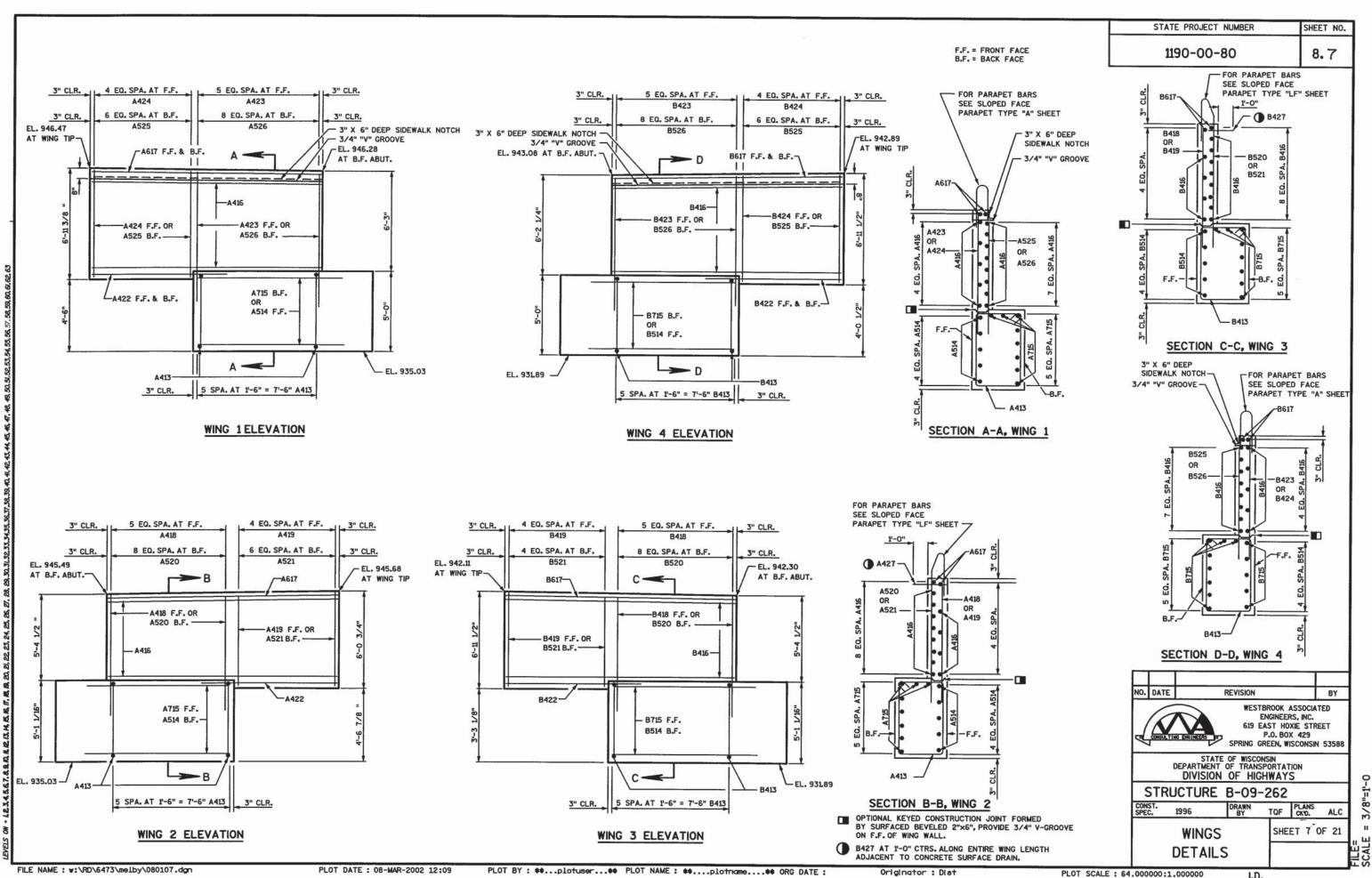
Originator : Dist

PLOT SCALE: 96.000000:1.000000









BILL OF BARS (WEST ABUTMENT)

	NUM	BER			S		
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
A401		16	28-0	X		BODY AT PILES B.F.	VERT.
A402		32	2-3			BODY AT PILES	VERT.
A403		75	14-8	X		BODY - STIRRUPS	VERT.
A604	00000	11	35-4			BODY - F.F.	HORIZ.
A805		7	36-11			BODY - B.F.	HORIZ.
A406		45	4-5	Х		BODY - TIES AT TOP B.F.	VERT.
A407		29	5-7	X		BODY - TIES AT TOP B.F.	VERT.
A408		2	35-4			BODY - AT TOP	HORIZ.
A409		6	26-1			BODY - AT TOP	HORIZ.
A610		11	32-7	$\neg$		BODY - F.F.	HORIZ.
A811		7	32-7			BODY - B.F.	HORIZ.
A412		2	32-7			BODY - AT TOP	HORIZ.
A413	12		15-2	X		WING 1 & 2 - STIRRUPS	VERT.
A514	10		9-6			WING 1 & 2 - F.F.	HORIZ.
A715	16		10-7			WING 1 & 2 - B.F.	HORIZ.
A416	24		14-1	$\neg$		WING 1 & 2 - F.F. & B.F.	HORIZ.
A617	4		14-1	$\neg$		WING 1 & 2 - F.F. & B.F.	HORIZ.
A418	6		6-9			WING 2 - F.F.	VERT.
A419	5		6-6	$\neg$	-	WING 2 - F.F.	VERT.
A520	9		6-9			WING 2 - B.F.	VERT.
A521	7		6-6			WING 2 - B.F.	VERT.
A422	4		8-0			WING 1 & 2 - BTM	HORIZ.
A423	6		7-7	$\top$		WING 1 - F.F.	VERT.
A424	5		6-6	-		WING 1 - F.F.	VERT.
A525	7		6-6			WING 1 - B.F.	VERT.
A526	9		7-7			WING 1 - B.F.	VERT.
A427	14		2-0			WING - TIE BARS AT CONC. SURFACE DRAIN	HORIZ.

F.F. - FRONT FACE B.F. - BACK FACE

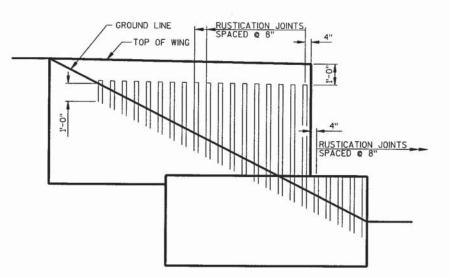
BILL OF BARS (EAST ABUTMENT)

	NUM	BER			S		
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
B401		16	28-0	X		BODY AT PILES B.F.	VERT.
B402		32	2-3			BODY AT PILES	VERT.
B403		75	14-8	X		BODY - STIRRUPS	VERT.
B604		11	35-4			BODY - F.F.	HORIZ.
B805		7	36-11			BODY - B.F.	HORIZ.
B406		45	4-5	X		BODY - TIES AT TOP B.F.	VERT.
B407		29	5-7	X		BODY - TIES AT TOP B.F.	VERT.
B408		2	35-4			BODY - AT TOP	HORIZ.
B409		6	26-1			BODY - AT TOP	HORIZ.
B610		11	32-7			BODY - F.F.	HORIZ.
B811		7	32-7			BODY - B.F.	HORIZ.
B412		2	32-7	$\neg \neg$		BODY - AT TOP	HORIZ.
B413	12		15-2	X		WING 3 & 4 - STIRRUPS	VERT.
B514	10		9-6			WING 3 & 4 - F.F.	HORIZ.
B715	16		10-7	$\neg$		WING 3 & 4 - B.F.	HORIZ.
B416	24		14-1	$\Box$		WING 3 & 4 - F.F. & B.F.	HORIZ.
B617	4		14-1	$\Box$		WING 3 & 4 - F.F. & B.F.	HORIZ.
B418	6		6-9	$\neg \neg$		WING 3 - F.F.	VERT.
B419	5		6-6			WING 3 - F.F.	VERT.
B520	9		6-9	$\top$		WING 3 - B.F.	VERT.
B521	7		6-6	$\neg$	$\neg$	WING 3 - B.F.	VERT.
B422	4		8-0		$\neg$	WING 3 & 4 - BTM	HORIZ.
B423	6		7-7	$\neg$		WING 4 - F.F.	VERT.
B424	5		6-6	$\vdash$		WING 4 - F.F.	VERT.
B525	7		6-6	$\neg \neg$		WING 4 - B.F.	VERT.
B526	9		7-7		$\neg$	WING 4 - B.F.	VERT.
B427	14		2-0	$\neg$	$\neg$	WING - TIE BARS AT CONC. SURFACE DRAIN	HORIZ.

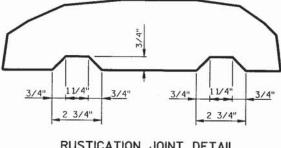
F.F. - FRONT FACE B.F. - BACK FACE

THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.
ALL BAR BEND DIMENSIONS ARE OUT TO

STATE PROJECT NUMBER SHEET NO. 1190-00-80 8.8



**ELEVATION OF RUSTICATION JOINTS** 



RUSTICATION JOINT DETAIL

NOTE: VERTICAL JOINTS ONLY, INCIDENTAL TO "CONCRETE MASONRY, BRIDGES"

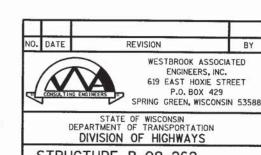
STRUCTURE BACKFILL LIMITS TO EXTEND BETWEEN ABUTMENT WINGS

PIPE UNDERDRAIN. 6-INCH. SLOPE TO DRAIN. EXIT
TO CONCRETE SURFACE WITH PIPE UNDERDRAIN.
UNPERFORATED AS DIRECTED BY ENGINEER.
SEE ROADWAY PLANS FOR CONCRETE SURFACE
DRAIN DETAILS.

SUBGRADE

## STRUCTURE BACKFILL & PIPE UNDERDRAIN DETAIL

(TYPICAL AT BOTH ABUTMENTS)



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

STRUCTURE B-09-262

1996 **ABUTMENT** 

**DETAILS** 

SHEET 8 OF 21

ALC

TOF PLANS

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET P.O. BOX 429

=	3	940.31	940.27
9	4	940.44	940.40
ABUTMENT	5	940.57	940.53
	6	940.48	940.44
WEST	7	940.35	940.31
¥	8	940.22	940.18
Г	9	940.09	940.05
	10	940.05	940.01
	11	936.96	937.00
	12	937.01	937.05
=	13	937.14	937.18
9	14	937.27	937.31
ABUTMENT	15	937.40	937.44
AB	16	937.31	937.35
ST	17	937.05	937.22
EAST	18	937.18	937.09
	19	936.92	936.96

EL. A

940.14

940.18

EL. B

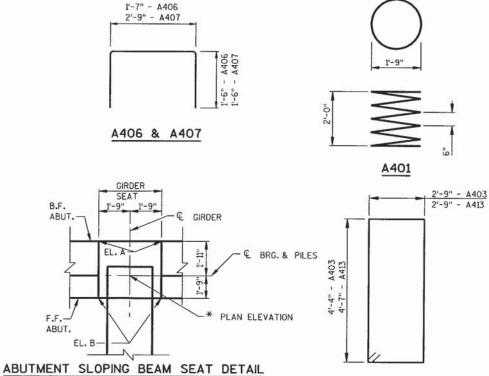
940.10

940.14

GIRDER

TABLE B

936.87



A403 & A413 PLOT DATE: 08-MAR-2002 13:08 PLOT BY : BOBBY JONES

FILE NAME: W:\RD\6473\melby\080108.dgn

PLOT NAME: 080108

ORG DATE :

ABUTMENT-

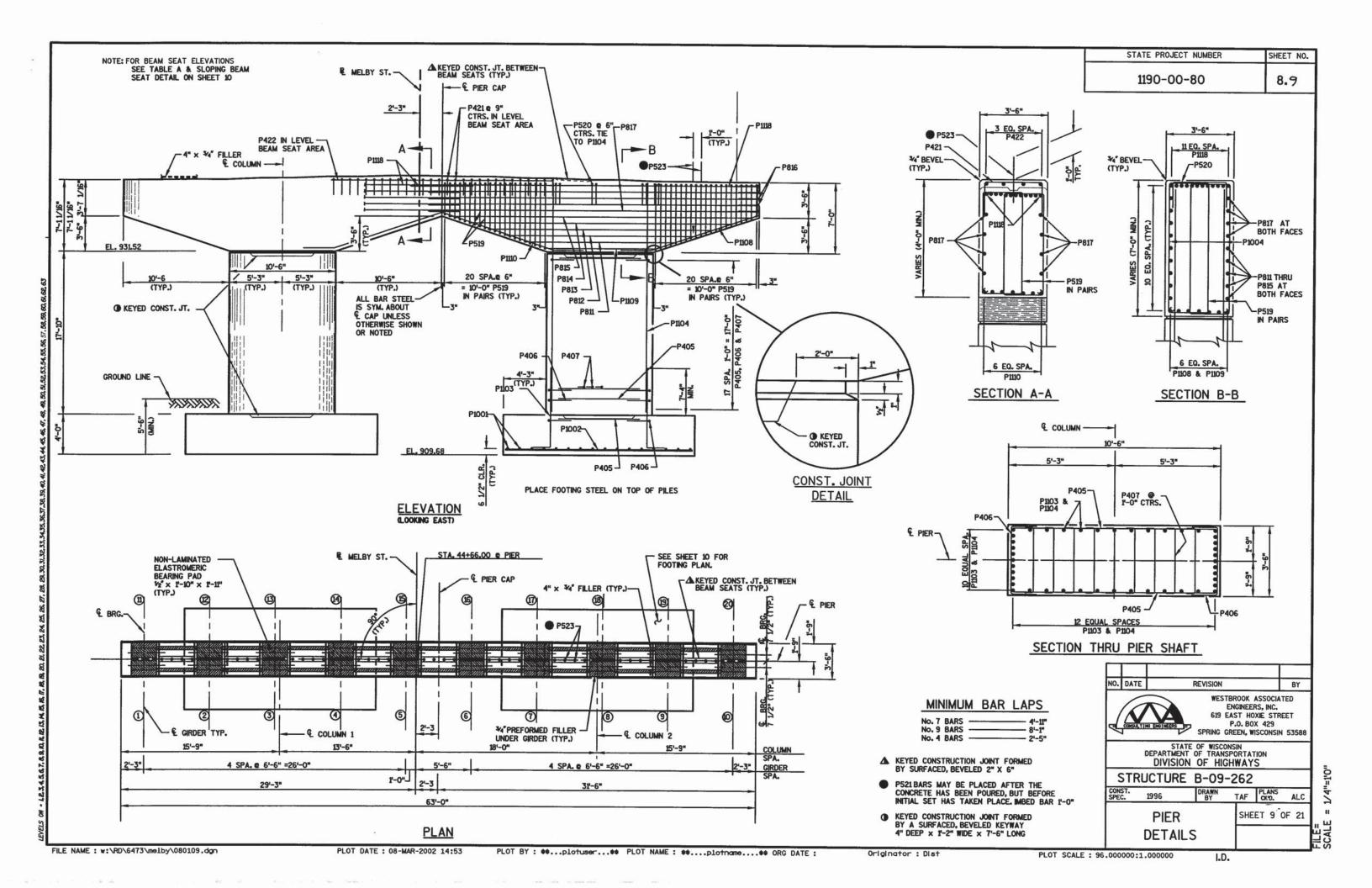
SIZE 1 COARSE AGGREGATE
(INCIDENTAL TO "PIPE UNDERDRAIN.
6-INCH") WRAP IN GEOTEXTILE
FABRIC. TYPE DF

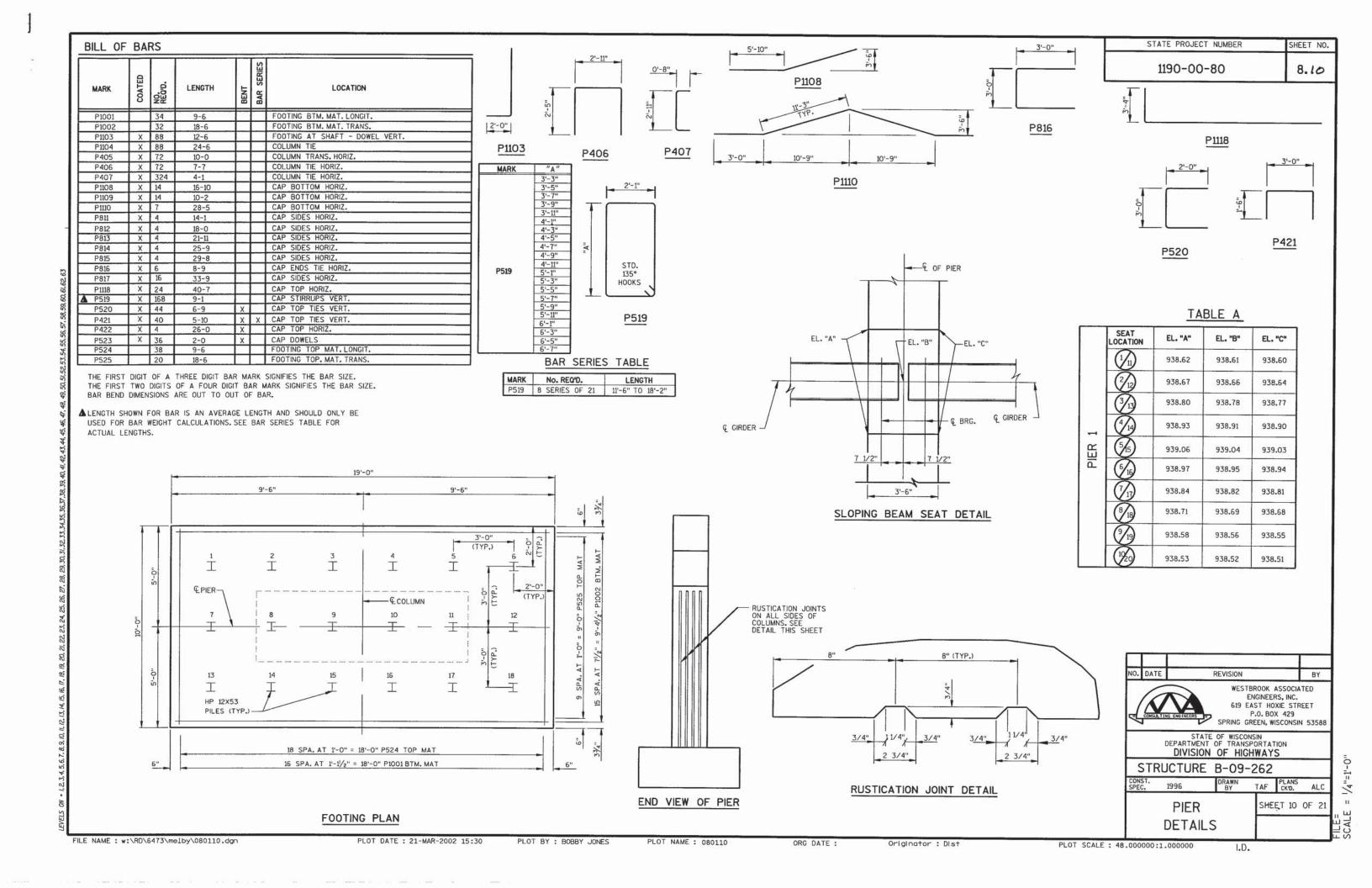
Originator : Dist

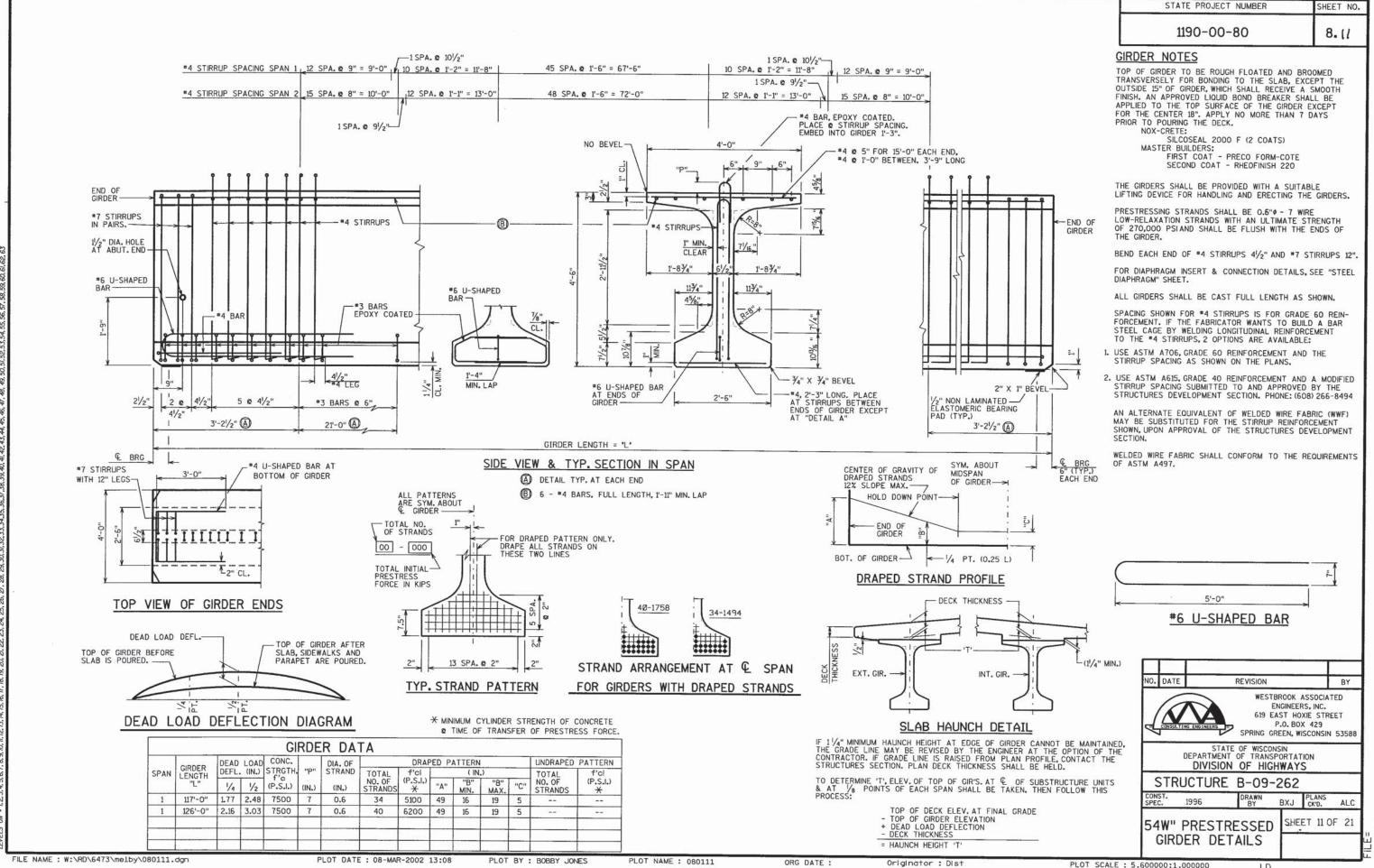
PLOT SCALE: 64.000000:1.000000

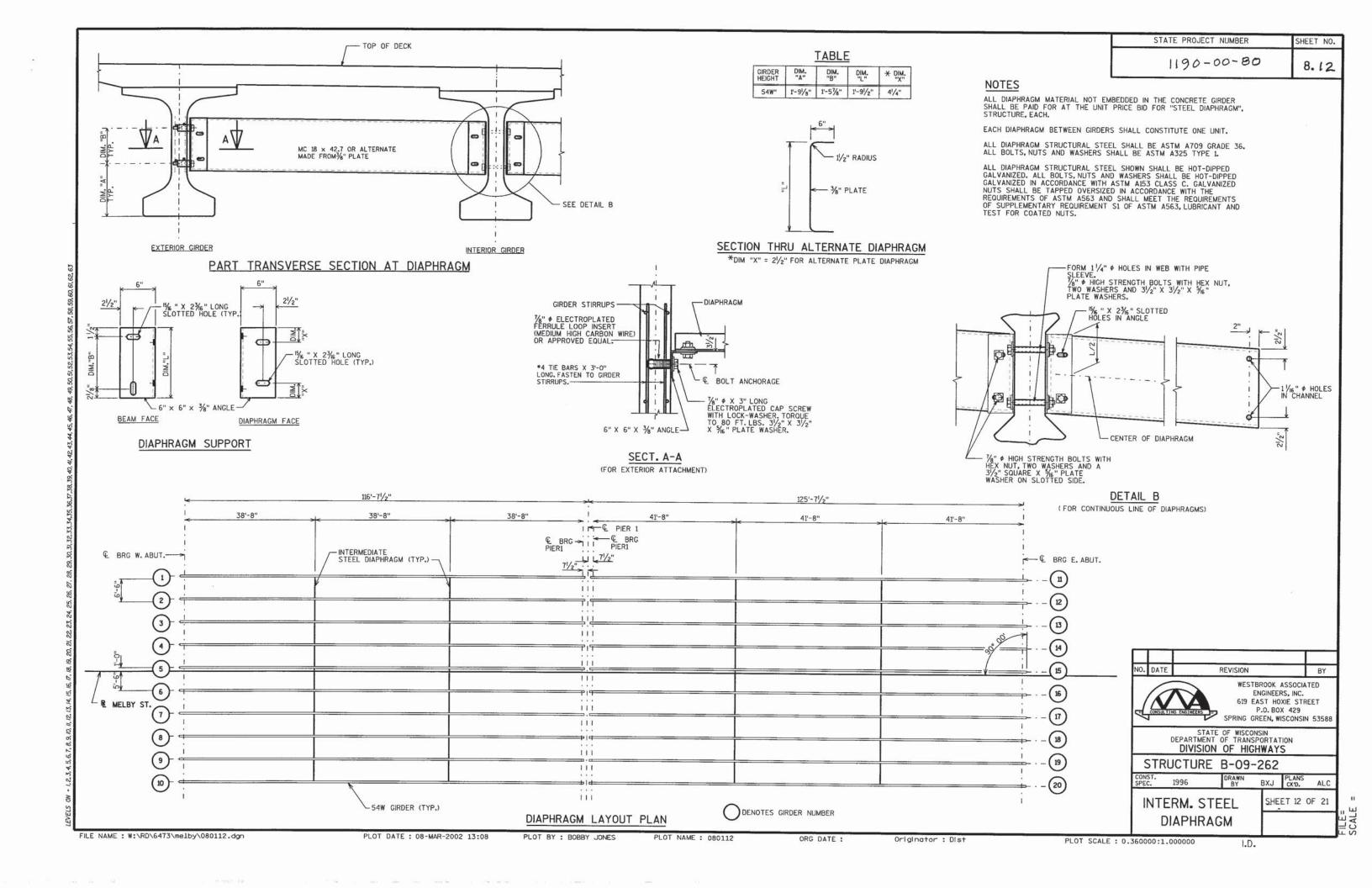
I.D.

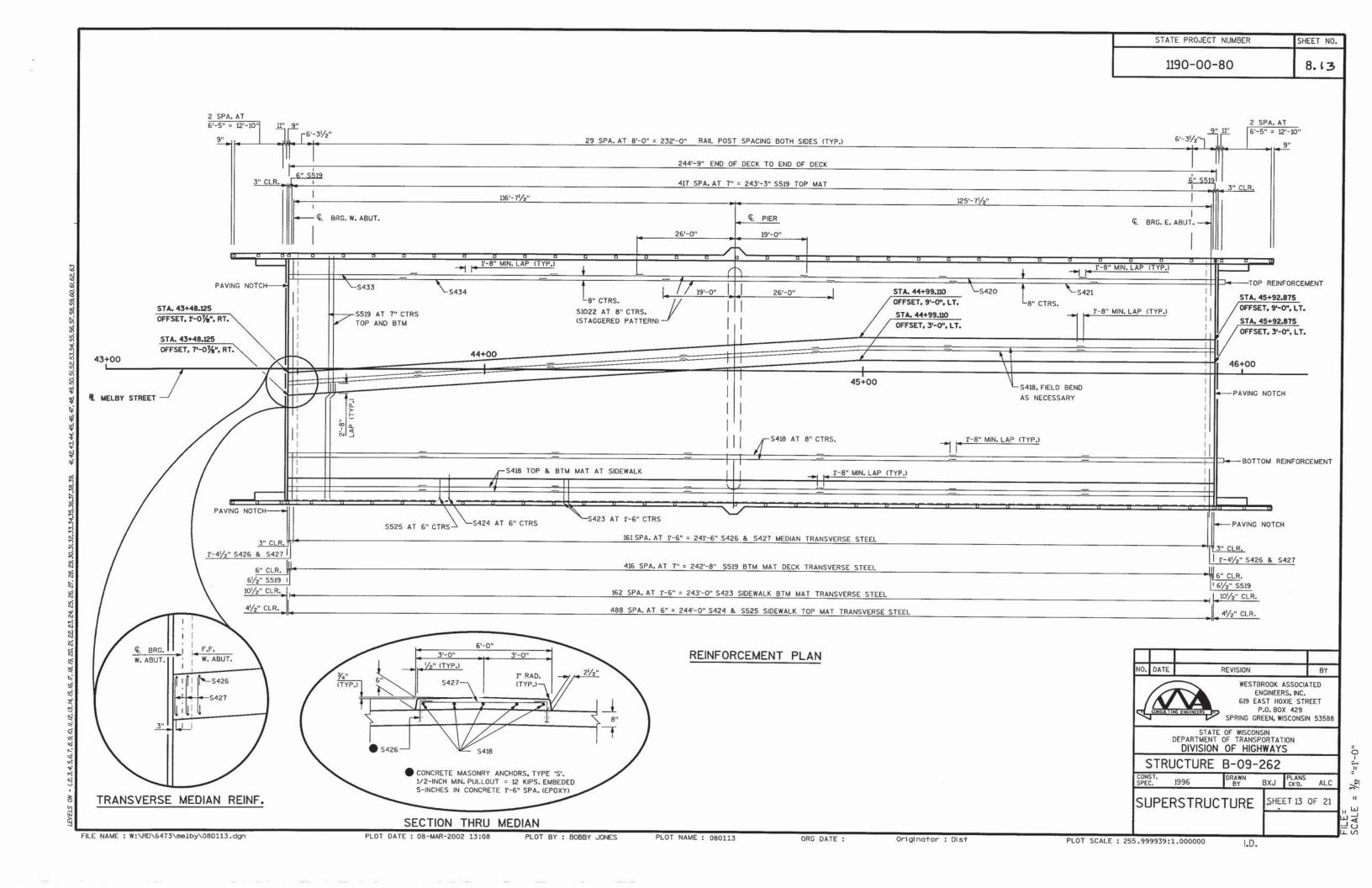
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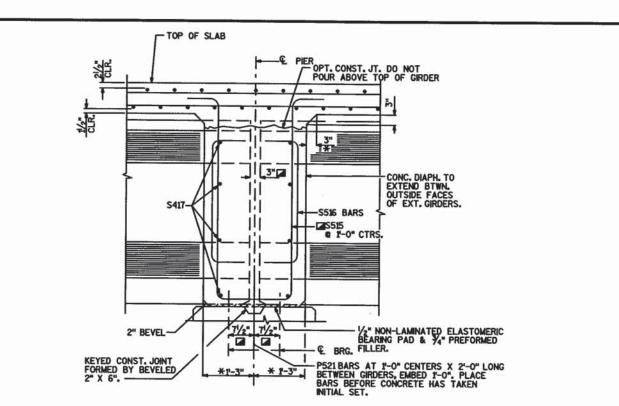












AT PIER

-(1) - 1 1/2" DIA. HOLE IN WEB FOR (2) \*5 HORIZ. BARS. S512 BARS PLACED SYM. ABOUT © OF GIRDERS. FIELD BEND BARS ALONG SKEW.

AT ABUTMENTS

IN THE THE

-S511 AT 9" CTRS 🔼

- OPT. CONST. JT. DO NOT POUR ABOVE TOP OF GIRDER

-S607, S608 OR S609

-\$605 OR \$607

-S404 BARS

- 3/4" BEVEL

"FILLER UNDER GIRDER FLANGE IN FRONT OF BRG. PAD

PAVING NOTCH-

S501 AT 9" CTRS-

RUBBERIZED MEMBRANE WATERPROOFING

1/2" X 8" X 2'-10" NON-LAMINATED ELASTOMERIC BRG. PAD & 4" X 3/4" PREFORMED FILLER.

END OF GIRDER

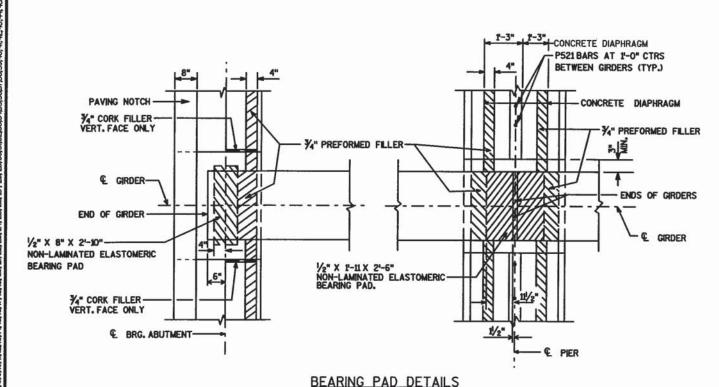
S602

& OF PILES & BRG. --

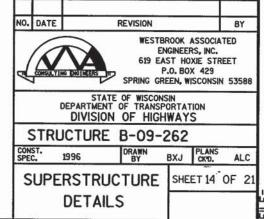
P-11"

## PARTIAL LONGITUDINAL SECTION

- DIMENSION IS TAKEN NORMAL TO & SUBSTRUCTURE UNITS
- DIMENSION IS TAKEN PARALLEL TO & GIRDER



			SPAN 1				SPAN 2						
		€ BRG. W. ABUT	1/4PT.	1/2PT.	<b>¾</b> PT.	& BRG. PIER			€ BRG. PIER	¼PT.	1/₂PT.	¾PT.	E. ABUT
GIRDER 1	T.D. T.G.	945.51 944.66	945.13	944.75	944.38	944.00 943.15	GIRDER 11	T.D. T.G.	943.98 943.15	943.58	943.17	942.77	942,36 941,52
GIRDER 2	T.D. T.G.	945.64 944.71	945.26	944.88	944.51	944.13 943.20	GIRDER 12	T.D. T.G.	944.11 943.19	943.71	943.30	942.90	942.49 941.57
GIRDER 3	T.D. T.G.	945.77 944.84	945.39	945.01	944.64	944.26 943.33	GIRDER 13	T.D. T.G.	944.24 943.32	943.84	943.43	943.03	942.62 941.70
GIRDER 4	T.D. T.G.	945.90 944.97	945.52	945.14	944.77	944.39 943.46	GIRDER 14	T.D. T.G.	944.37 943.45	943.97	943.56	943.16	942.75 941.83
GIRDER 5	T.D. T.G.	946.03 945.10	945.65	945.27	944.90	944.52 943.59	GIRDER 15	T.D. T.G.	944.50 943.58	944.10	943.69	943.29	942.88 941.96
GIRDER 6	T.D. T.G.	945.94 945.01	945.56	945.18	944.81	944.43	GIRDER 16	T.D. T.G.	944.41 943.49	944.01	943.60	943.20	942.79 941.87
GIRDER 7	T.D. T.G.	945.81 944.88	945.43	945.05	944.68	944.30	GIRDER 17	T.D. T.G.	944.28 943.36	943.88	943.47	943.07	942.66 941.74
GIRDER 8	T.D. T.G.	945.68 944.75	945.30	944.92	944.55	944.17 943.24	GIRDER 18	T.D. T.G.	944.15 943.23	943.75	943.34	942.94	942.53 941.61
GIRDER 9	T.D. T.G.	945.55 944.62	945.17	944.79	944.42	944.04 943.11	GIRDER 19	T.D. T.G.	944.02	943.62	943.21	942.81	942.40
GIRDER 10	T.D. T.G.	945.42 944.57	945.04	944.66	944.29	943.91 943.06	GIRDER 20	T.D. T.G.	943.89 943.06	943.49	943.08	942.68	942.27 941.43



STATE PROJECT NUMBER

1109-00-80

SHEET NO.

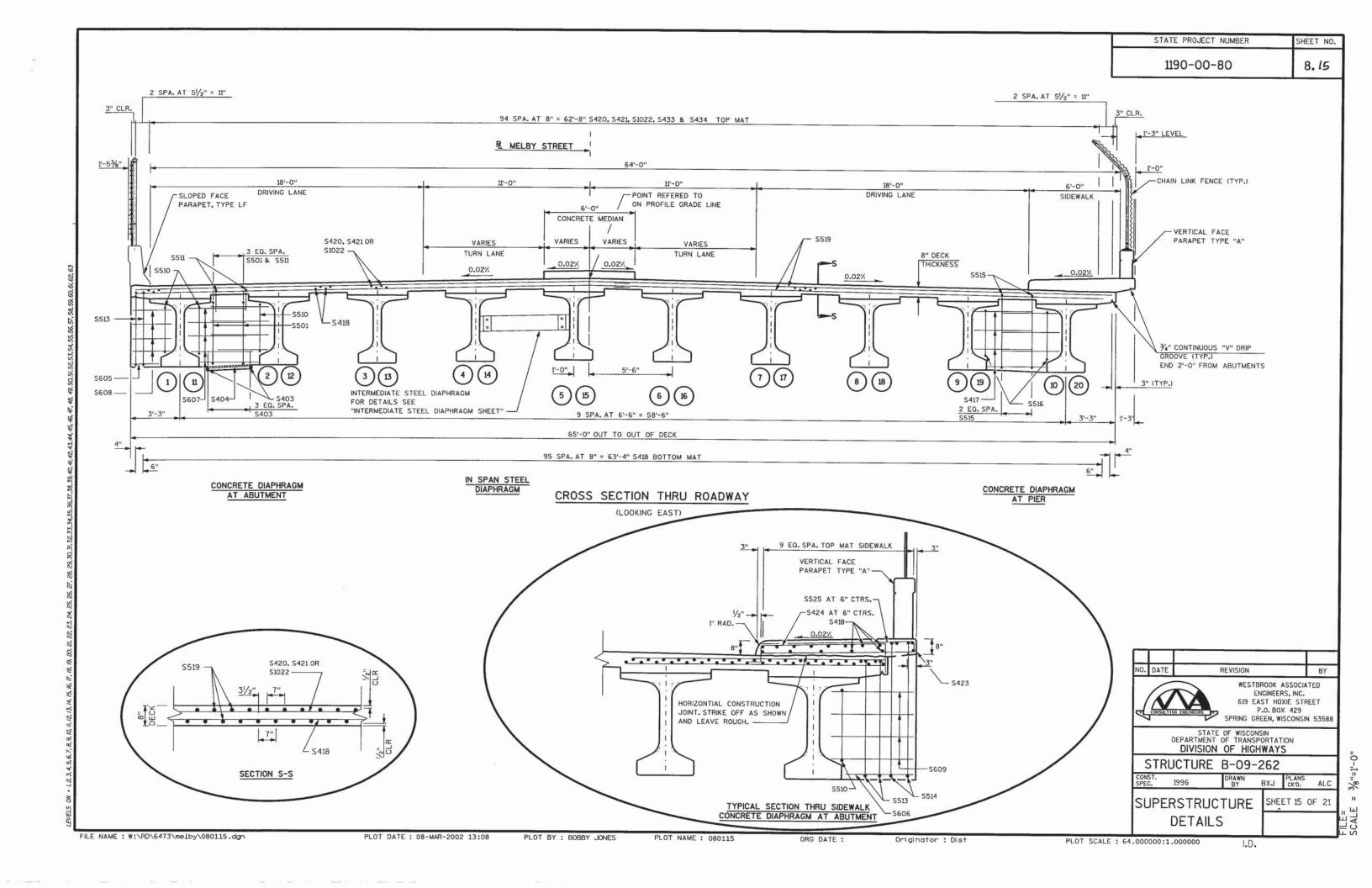
8.14

PLOT DATE : 08-MAR-2002 15:05

PLOT BY : \*\*...plotuser... \*\* PLOT NAME : \*\*...plotname.... \*\* ORG DATE :

Originator : Dist

PLOT SCALE: 2.800000:1.000000

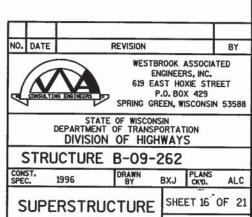


STATE PROJECT NUMBER SHEET NO. 1190-00-80 8.16

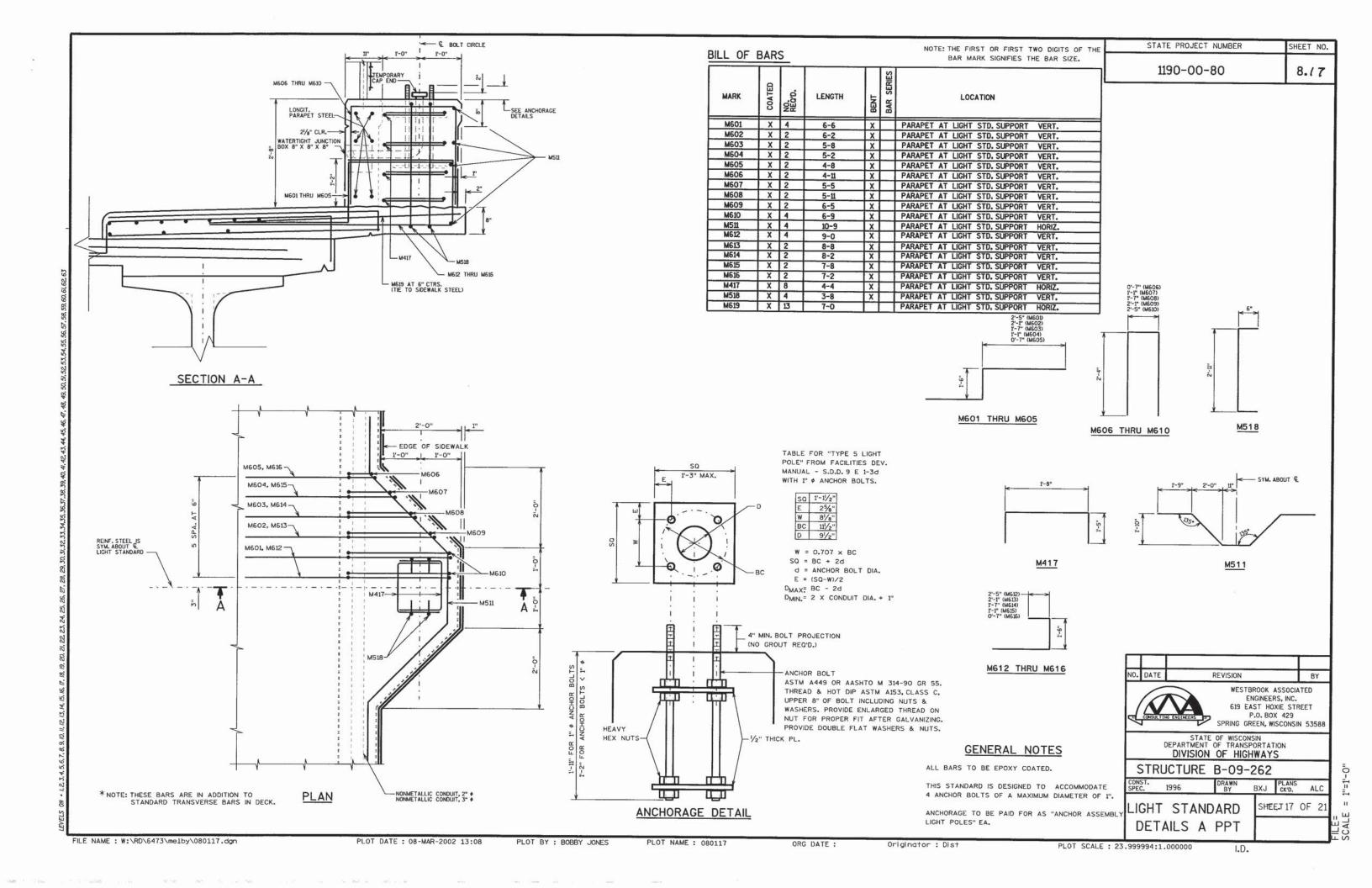
BILL OF BARS (SUPERSTRUCTURE)

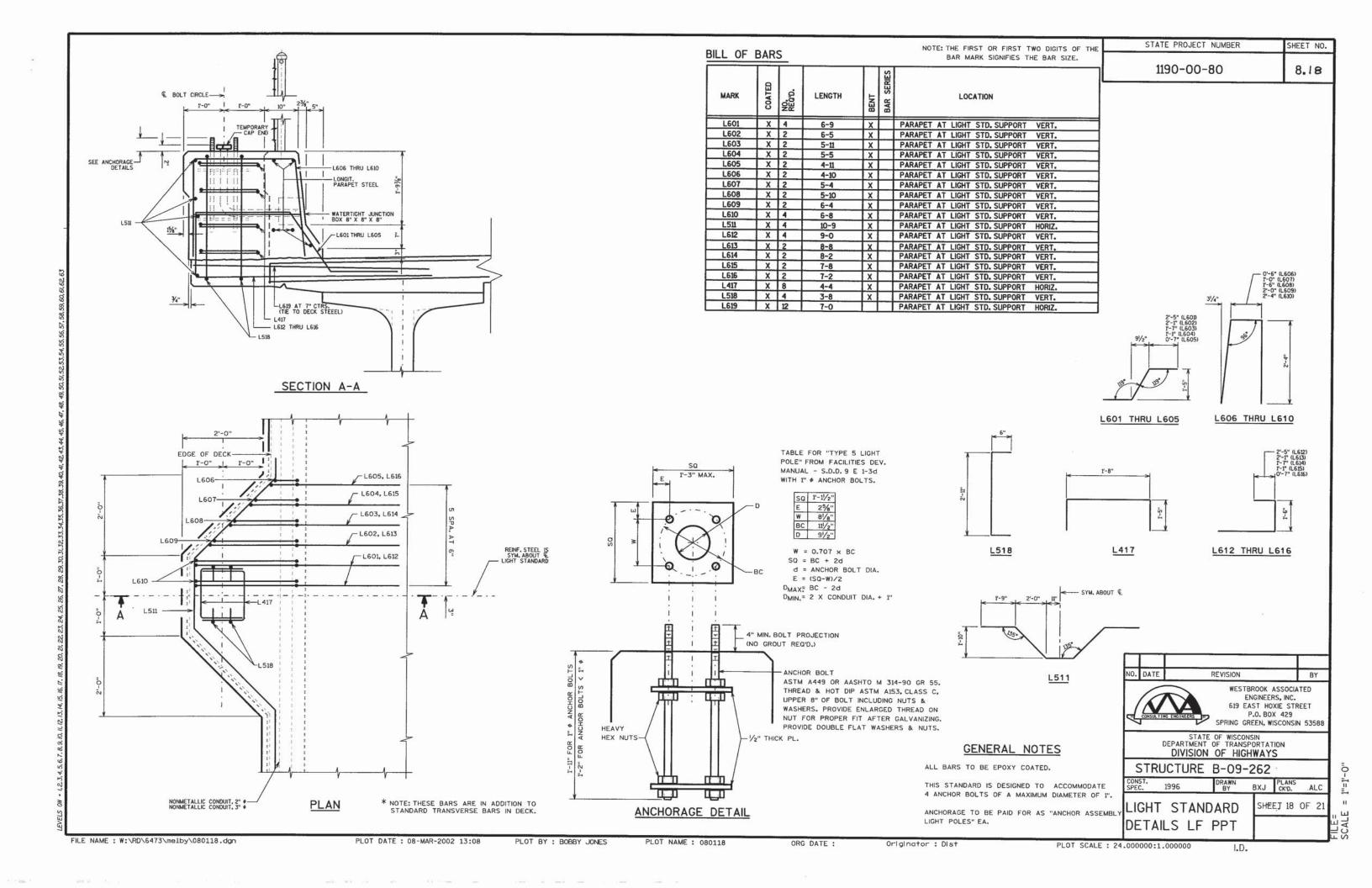
	NUM	BER			S	
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
S501	72		14-8	X		ABUT. DIAPH. STIRRUPS VERT.
S602	28		34-9			ABUT. DIAPH. B.F. TRANSVERSE
S403	72		3-3	X		ABUT. DIAPH. U-BAR BETWEEN GIRDERS VERT.
S404	36		2-6			ABUT. DIAPH. TRANSVERSE
S605	2		1-8			ABUT. DIAPH. EXT. NORTH SIDE F.F. TRANSVERSE
S606	2		2-11			ABUT. DIAPH. EXT. SOUTH SIDE F.F. TRANSVERSE
S607	162		3-10	$\Box$		ABUT. DIAPH. BETWEEN GIRDERS F.F. TRANSVERSE
S608	8	- "-	2-8	$\neg$		ABUT. DIAPH. EXT. NORTH SIDE F.F. TRANSVERSE
S609	8		3-9			ABUT. DIAPH. EXT. SOUTH SIDE F.F. TRANSVERSE
S510	40		4-9	X		ABUT. DIAPH. STIRRUPS VERT.
S511	72		7-5	X		ABUT. DIAPH. U-BAR BETWEEN GIRDERS VERT.
S512	40		6-0			ABUT, DIAPH, AT GIRDER WEB HORIZ.
S513	8		16-3	X		ABUT, DIAPH, AT EXT, GIRDER VERT.
S514	4		17-7	X		ABUT. DIAPH. AT SIDEWALK VERT.
\$515	27		13-4	X		PIER DIAPH. STIRRUPS VERT.
S516	36		4-7	X		PIER DIAPH. STIRRUPS VERT.
S417	126		3-10			PIER DIAPH, F.F. & B.F. TRANSVERSE
S418	833		36-5	$\neg$		DECK LONGITUDINAL BTM. & SIDEWALK & MEDIAN
S519	1678		33-8	$\neg$		DECK TRANSVERSE TOP & BTM.
S420	147		37-8	$\top$		DECK LONGITUDINAL TOP SPAN 2
5421	150		35-4			DECK LONGITUDINAL TOP SPAN 2
S1022	99	984/5	45-0		$\neg$	DECK LONGITUDINAL TOP AT PIER
S423	163		6-8		$\neg$	SIDEWALK TRANSVERSE BTM.
S424	489	esa III-co I	8-10	X	$\neg$	SIDEWALK TRANSVERSE TOP
S525	489		6-9	X	$\neg$	SIDEWALK TRANSVERSE TOP
<b>S426</b>	328		1-10	X	$\neg$	MEDIAN VERT.
S427	164		5-7	1		MEDIAN TRANSVERSE
\$528	370		4-5	X		PARAPET "LF" VERT.
S529	370		4-10	X		PARAPET "LF" VERT.
\$530	25		51-7		$\Box$	PARAPET "LF" LONGITUDINAL
S531	247	$\overline{}$	8-10	X	$\Box$	PARAPET "A" VERT.
5432	42		37-1	$\perp$		PARAPET "A" LONGITUDINAL
S433	147		34-8	4	_	DECK LONGITUDINAL TOP SPAN 1
S434	150		32-4			DECK LONGITUDINAL TOP SPAN 1

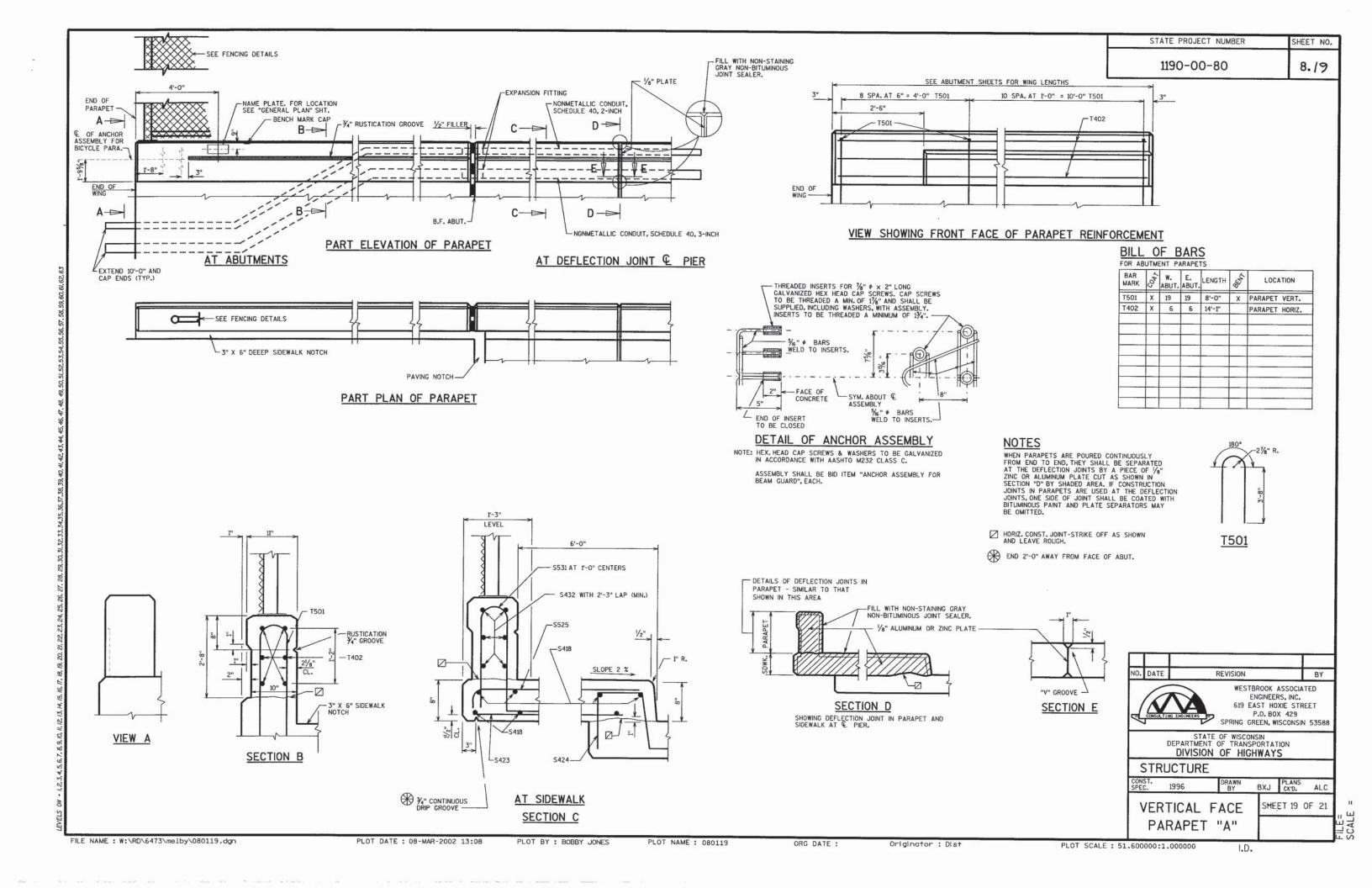
CONCRETE MASONRY ANCHORS, TYPE S, 1/2-INCH

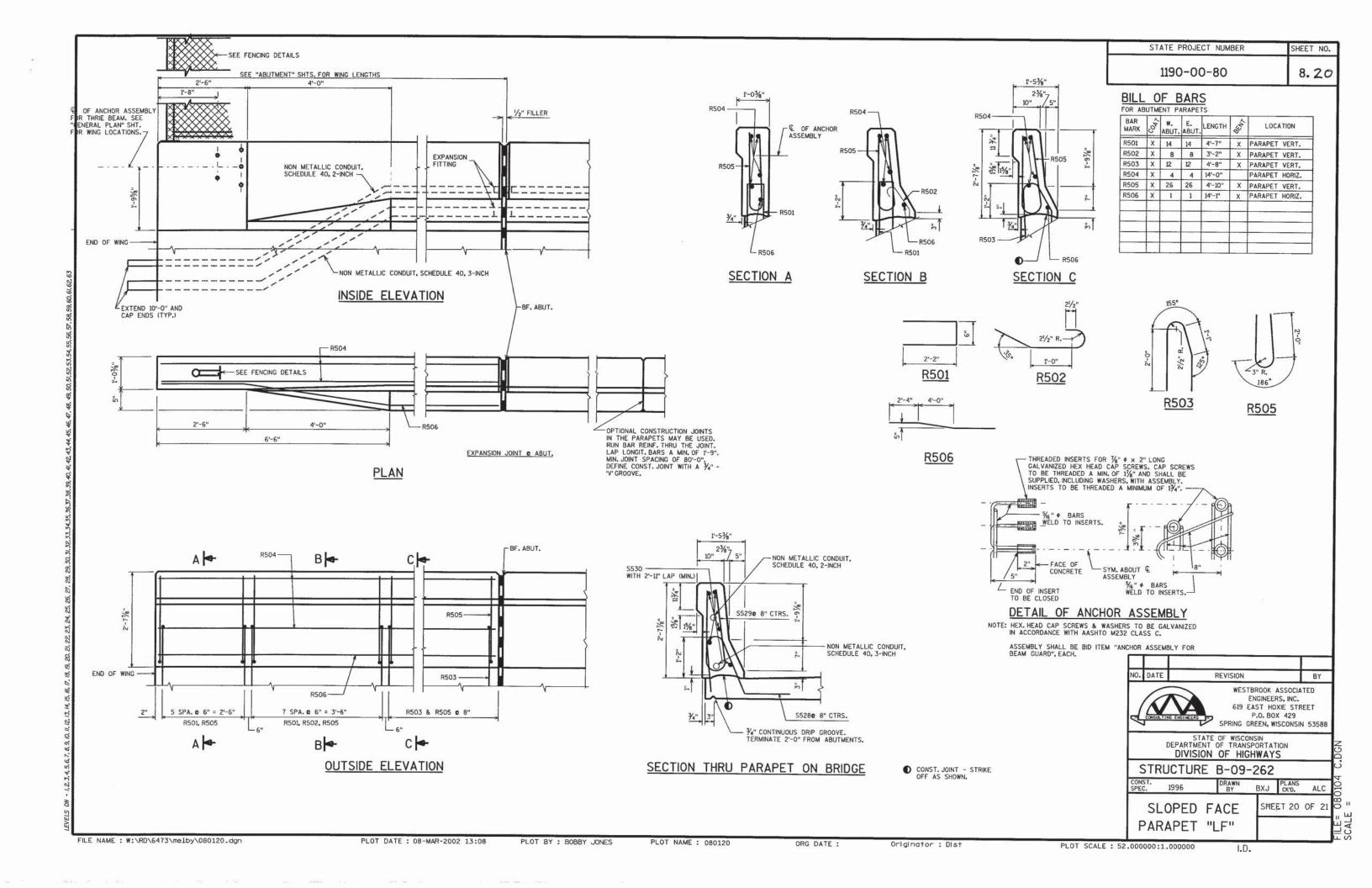


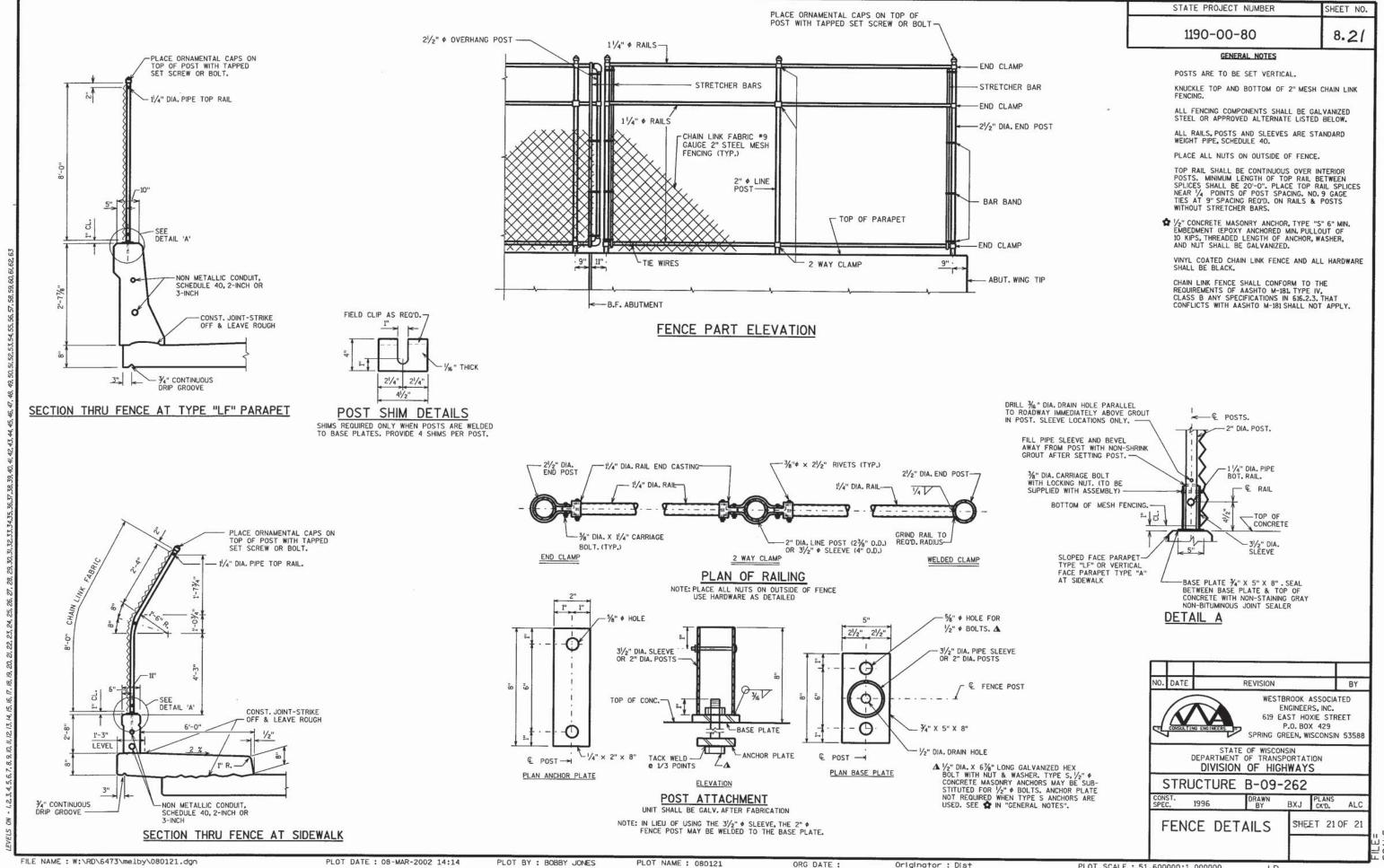
S525 S501 2-10 4-2 S513 2-10 5-0 S515 <u>\$403</u> **S424 S426** S501, S513, S514 S510, S516











Originator : Dist

PLOT SCALE : 51.600000:1.000000