9865-01-70 LINCOLN COUNTY

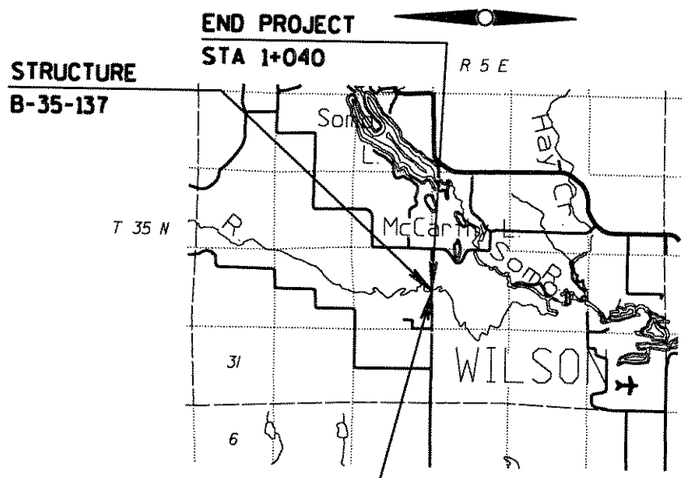
INDEX OF SHEETS

TOTAL SHEETS = ___

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN FOR PROPOSED IMPROVEMENT
ZENITH TOWER ROAD
(SOMO RIVER BRIDGE)
TOWN OF WILSON
LINCOLN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9865-01-70		

STATE PROJECT NUMBER
9865-01-70



BEGIN PROJECT
STA 0+960
X=620755 (±30 m)
Y=184025 (±30 m)

LAYOUT
SCALE 0 1.6 km

TOTAL NET LENGTH OF CENTERLINE = 0.08 km (RURAL)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM CENTRAL ZONE AND SCALED FROM THE COFFEE CREEK, WISCONSIN QUADRANGLE FOR IDENTIFICATION PURPOSES ONLY.

DESIGN DESIGNATION

A.D.T.	(1998)	=	40
A.D.T.	(2018)	=	60
D.H.V.	(2018)	=	14
D.		=	60/40
T. (%ADT)		=	10
DESIGN SPEED		=	90 km/h
ESALS		=	14600

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
MARSH OR ROCK PROFILE
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
CULVERT (Profile View)

COMBUSTIBLE FLUIDS
UNDERGROUND UTILITIES
GAS — G —
ELECTRIC — E —
TELEPHONE OR TELEGRAPH — T —
SANITARY SEWER (SIZE) SAN
STORM SEWER (SIZE) SS
WATER (SIZE) W OR WM
SERVICE PEDESTAL
CABLE MARKER
POWER POLE
TELEPHONE POLE
RAILROAD
MARSH AREA
WOODED OR SHRUB AREA
HYDRANT
LIGHT

ACCEPTED FOR
TOWN OF WILSON
DATE: _____ _____ TOWN CHAIRMAN

ACCEPTED FOR
LINCOLN COUNTY
DATE: _____ _____ COUNTY HIGHWAY COMMISSIONER

ORGINAL PLANS PREPARED BY
MEAD & HUNT ENGINEERS ARCHITECTS SCIENTISTS PLANNERS
WISCONSIN
JOHN A. RATHKE E-29332 COTTAGE GROVE, WI
PROFESSIONAL ENGINEER
9/4/97 Date
John A Rathke Signature
Mead & Hunt, Inc.
6501 Watts Road Madison, Wisconsin 53719-2700

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor MEAD & HUNT
Designer MEAD & HUNT
District Examiner
District Supervisor
Proj. Dev. Engineer
C. O. Examiner

APPROVED FOR DISTRICT OFFICE
DATE: _____ (Signature)

M

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
1	0+952.3	60 d NAIL IN 300 mm PINE	10.46 m RT.	440.874 m
2	0+988.5	NUT ON RAIL IN S.E. CORNER	3.55 m RT.	440.510 m
3	1+056.7	60 d NAIL IN CLUMP OF 150 mm MAPLES	12.3 m RT.	438.281 m

LEGEND
- SILT FENCE
- TURBIDITY BARRIER

N

PK NAIL IN 150mm ELM
7.36m
ZENITH TOWER ROAD
STA. 0+960
PK NAIL
13.90m
9.95m
PK NAIL IN 180mm PINE
PK NAIL IN 200mm BIRCH

SLOPE INTERCEPTS
STA. 0+968
EXISTING R/W
ZENITH TOWER ROAD
(ASPHALT)
0+980
1+000
1+020
20.12 m
EXISTING R/W
BM #1
BM #2
BM #3

BEGIN PROJECT
STA 0+960
SAW CUT REQUIRED

ASPHALTIC TAPER
TAPER AT 1:10 FROM END OF WING TO EDGE OF PAVEMENT (TYP. ALL FOUR WINGS)

SOMO RIVER

END PROJECT
STA 1+040
SAW CUT REQUIRED

PK NAIL IN 160mm ELM
PK NAIL IN 160mm ELM
10.24m
10.39m
ZENITH TOWER ROAD
STA. 1+040
PK NAIL
16.13m
PK NAIL IN 200mm ELM

L= 60.00 m
K = 46.15

VPC STA 0+970.000
VPC EL 439.960
CL SOUTH ABUT.
STA 0+986.500
EL 439.632
VPI STA 1+000.000
VPI EL 439.780
CL PIER
STA 1+000.000
EL 439.683
CL NORTH ABUT.
STA 1+013.500
EL 439.494
VPT STA 1+030.000
VPT EL 439.210

EXISTING GRADE
-0.60 %
O 100 HW EL = 439.76
FINISHED GRADE
-1.90 %

NORMAL WATER = 436.46
(12/10/96)
STREAM BED
EL. 434.78

STA. 1+000
REMOVE EXISTING STRUCTURE
23.6 m LONG X 7.0 m CLEAR WIDTH
FOUR SPAN TIMBER BRIDGE
(P-35-53)

STA. 1+000
STRUCTURE B-35-137 REQ'D.
27.0 m LONG X 7.2 m CLEAR WIDTH
TWO SPAN REINFORCED CONCRETE HAUNCHED SLAB BRIDGE
SKEW 30° RHF
SEE STRUCTURE PLANS

442
440
438
436
434

440.268
440.018 MATCH
439.915
439.889
439.683
439.636
439.389
439.026 MATCH
438.664

0+960
0+980
1+000
1+020
1+040

PLAN AND PROFILE	HWY: ZENITH TOWER ROAD	COUNTY: LINCOLN	STATE PROJECT NO: 9865-01-70	SCALE: 1:500	SHEET NO: .__	M

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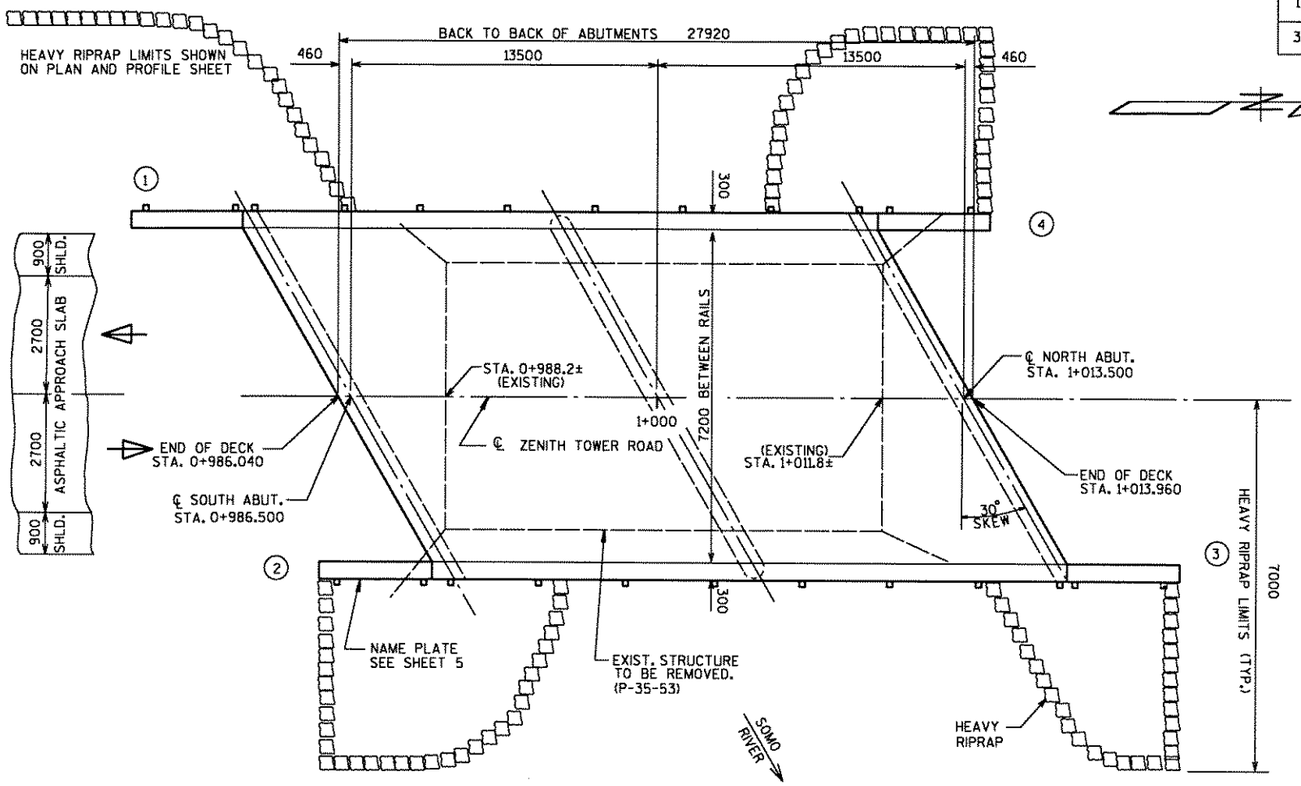
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	

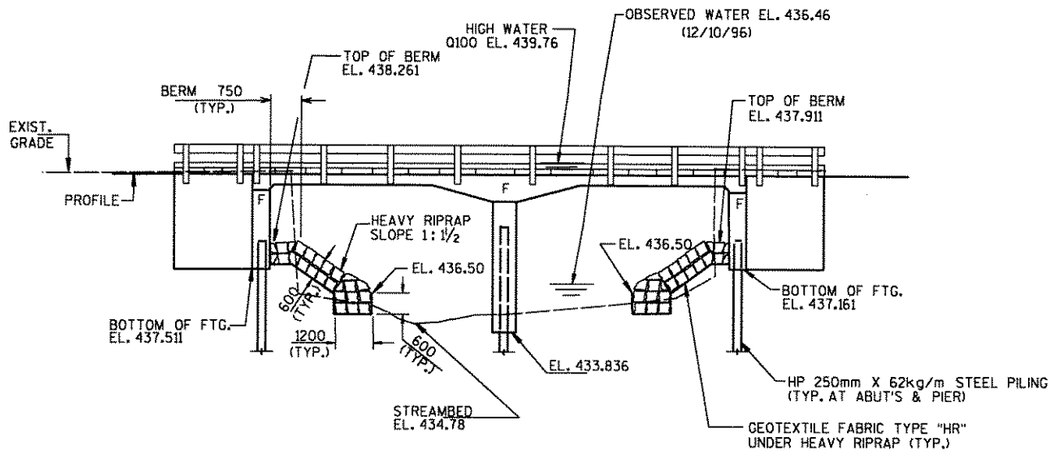
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	0+952.3	60 d NAIL IN 300 mm PINE 10.46 m RT.	440.874
3	1+056.7	60 d NAIL IN CLUMP OF 150 mm MAPLES 12.3 m RT.	438.281



PLAN

TWO SPAN HAUNCHED SLAB BRIDGE



ELEVATION

HYDRAULIC DATA

Q_{100} _____ 122.0 cm/s
Q_{100} _____ 71.0 cm/s (OVER ROAD)
Q_{100} _____ 51.0 cm/s (THROUGH BRIDGE)
VELOCITY _____ 0.75 m/s
HIGH WATER ____ EL. 439.76
WATERWAY AREA __ 71.5 sm
DRAINAGE AREA __ 219.0 km2
SCOUR CRITICAL CODE___5

OVERTOPPING FREQUENCY
5 YEARS
Q5 = 64 cm/s
HW5 = 438.75

60m V.C.

PI STA. 1+000
EL. 439.780
-0.60%
-1.90%

PC STA. 0+970 EL. 439.960	℄ SOUTH ABUT. STA. 0+986.500 EL. 439.832	℄ PIER STA. 1+000 EL. 439.683	℄ NORTH ABUT. STA. 1+013.500 EL. 439.494	PT STA. 1+030 EL. 439.210

PROFILE

FOUNDATION DATA

ABUTMENTS AND PIER SUPPORTED ON HP 250mm X 62kg/m STEEL PILING DRIVEN TO 360kN PER PILE AT THE ABUTMENTS AND 490 kN AT THE PIER. ESTIMATED 4000 LONG AT THE SOUTH ABUTMENT AND 8500 LONG AT THE PIER, AND 11000 LONG AT THE NORTH ABUTMENT. PILE POINTS REQUIRED.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT
6. NORTH ABUTMENT
7. NORTH ABUTMENT
8. PIER
9. SUPERSTRUCTURE
10. TIMBER RAILING

TRAFFIC DATA

ADT (1998)= 40
(2018)= 60

BRIDGE OFFICE CONTACT
G. ANDERSON 608-266-8488

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 50mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES, UNLESS ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON THIS SHEET AND IN THE ABUTMENT DETAILS.
THE EXISTING STRUCTURE IS A 23.6m LONG BY 7.0m CLEAR WIDTH, FOUR SPAN TIMBER BRIDGE. (P-35-53)
ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
A MONUMENT (BENCH MARK CAP) SUPPLIED BY THE DEPARTMENT SHALL BE SET IN THE SAME WING WALL AS THE NAME PLATE.
ALL STATIONS AND ELEVATIONS ARE IN METERS.
AT THE BACK FACE OF THE ABUTMENT, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
ALL BAR STEEL REINFORCEMENT IS METRIC.

DESIGN DATA

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 1.0 kN/m²
LIVE LOAD:
DESIGN RATING _____ MS18
INVENTORY RATING _____ MS19
OPERATING RATING _____ MS36
MAXIMUM STANDARD PERMIT VEHICLE LOAD= 1010 kN

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY SLAB _____ f'c = 28 MPa
ALL OTHER ____ f'c = 24 MPa
HIGH STRENGTH BAR STEEL REINFORCEMENT _____ fy = 420 MPa

WISCONSIN
JOHN A. RATHKE E-29332 COTTAGE GROVE, WI
PROFESSIONAL ENGINEER
9/4/97

ORIGINAL PLANS PREPARED BY
MEAD & HUNT ENGINEERS ARCHITECTS SCIENTISTS PLANNERS
MR. JOHN RATHKE, P.E., 608-273-6380

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

ZENITH TOWER ROAD OVER THE SOMO RIVER

COUNTY	LINCOLN		TOWN/~~CITY/VILLAGE~~	WILSON	
DESIGN SPEC.	AASHTO '96		LOAD	MS18	CONST. SPEC. 1996
DESIGNED BY	CJB	DESIGN CK'D. JAR	DRAWN BY	CJB	PLANS CK'D. JAR

APPROVED _____
CHIEF STRUCTURAL DESIGN ENGINEER DATE

GENERAL PLAN

SHEET 1 OF 10

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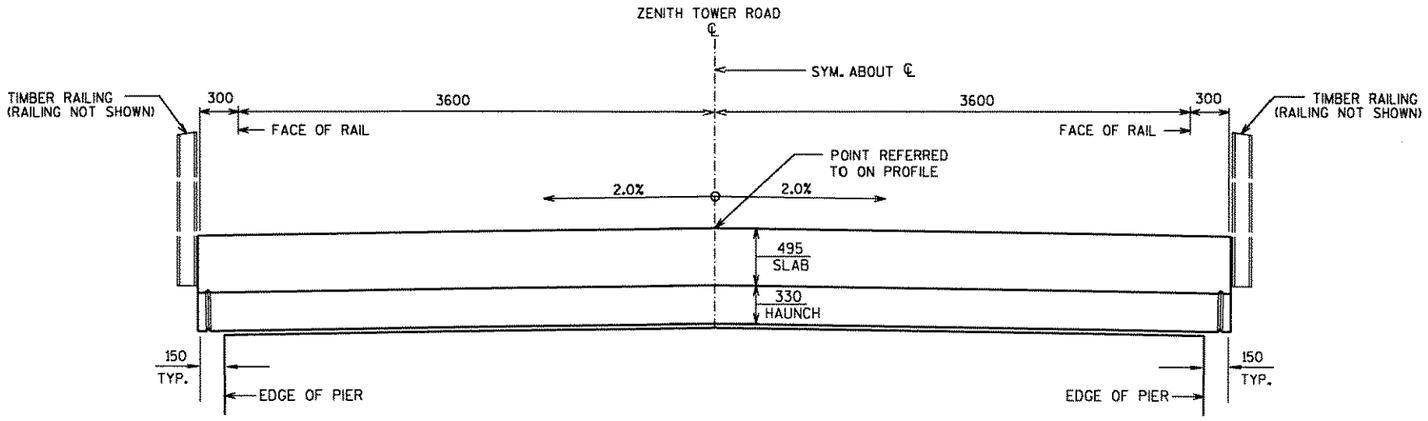
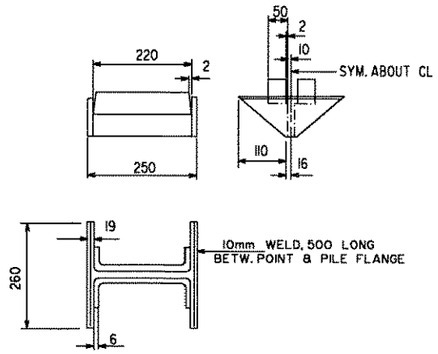
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	



CROSS SECT. THRU RDWY.

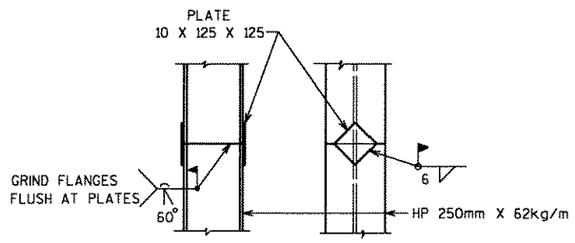
LOOKING NORTH



POINT NOTES

1. MATERIAL = CAST STEEL (ASTM A-27-84-65-35)
2. ALL FILLETS = 10mm
3. ALL WELDS BETW. PILE & POINT TO BE IN ACCORDANCE WITH AWS SPEC'S. WELD FLANGES TO FITTING ON OUTSIDE FACES.
4. CONTRACTOR MAY USE AN ALTERNATE DESIGN UPON APPROVAL OF THE ENGINEER

PILE POINT DETAIL



PILE SPLICE DETAILS

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SOUTH ABUT.	PIER	NORTH ABUT.	SUPER.	TOTALS
REMOVING OLD BRIDGE, STA. 1+000	L.S.	———	———	———	———	1
EXCAVATION FOR STRUCTURES, BRIDGES B-35-137	L.S.	———	———	———	———	1
STRUCTURE BACKFILL	m3	85	———	85	———	170
CONCRETE MASONRY, BRIDGES	m3	21	32	21	120	194
PROTECTIVE SURFACE TREATMENT	m2	———	———	———	220	220
HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	Kg	980	900	980	7950	10810
COATED HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	Kg	110	———	110	5310	5530
STEEL PILING, DELIVERED AND DRIVEN HP 250mm X 62kg/m	m	20	68	55	———	143
PILE POINTS	EACH	5	8	5	———	18
TREATED LUMBER AND TIMBER	m3	———	———	———	11.1	11.1
RUBBERIZED MEMBRANE WATERPROOFING	m2	5	———	5	———	10
HEAVY RIPRAP	m3	60	———	60	———	120
GEOTEXTILE FABRIC, TYPE 'HR'	m2	100	———	100	———	200
NON-BID ITEMS						
FILLER	SIZE	———	———	———	———	13 & 19

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC.	1996	DRAWN BY	CJB	PLANS CK'D.	JAR

CROSS SECTION & QUANTITIES

SHEET 2 OF 10

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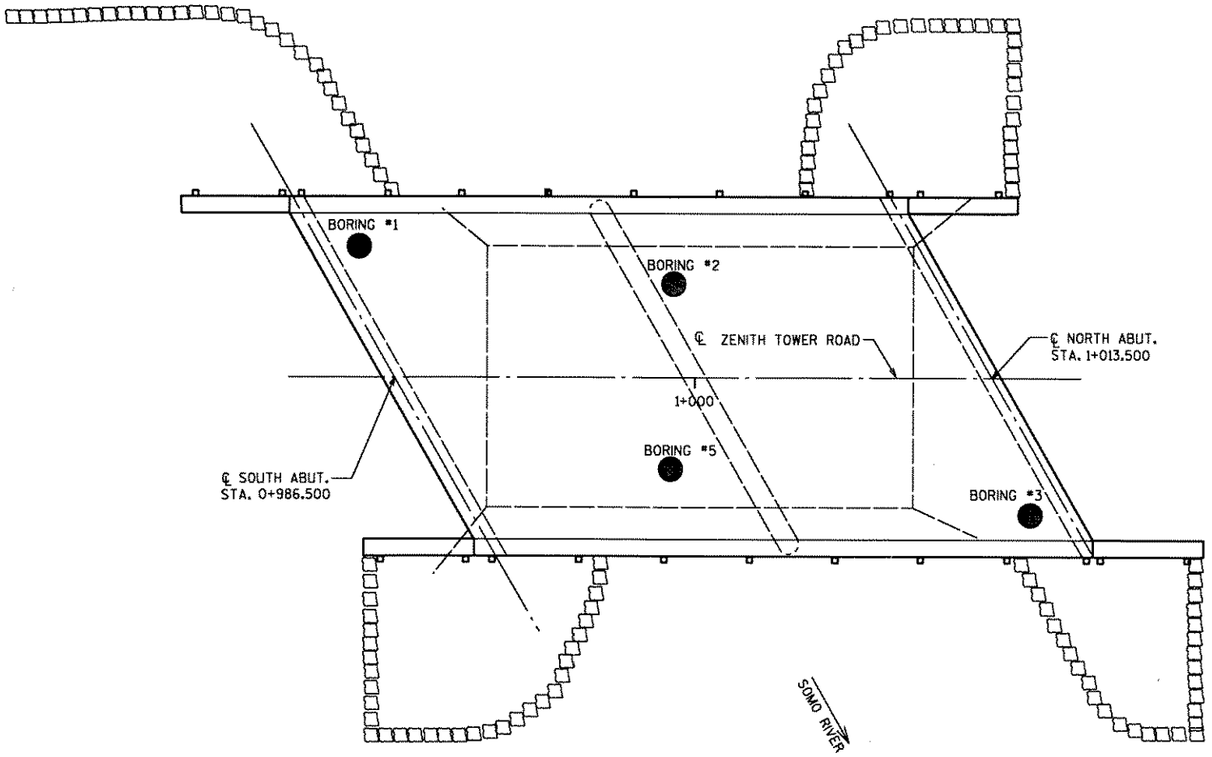
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	

BORINGS BY
MAXIM TECHNOLOGIES, INC.
WAUSAU, WISCONSIN
ON APRIL 24, 1997



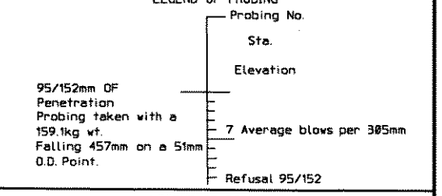
ABBREVIATIONS

F---FINE M---MEDIUM C---COARSE
Ws---WEATHERED So---SOUND

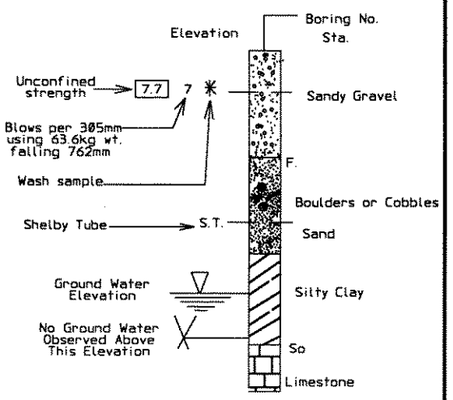
MATERIAL SYMBOLS

Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING



LEGEND OF BORING



Unless otherwise specified, the blows per 305mm at the locations indicated are based on driving a 51mm O.D. x 35mm I.D. split spoon sampler with a 63.6kg hammer having a free fall of 762mm. The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings, and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings, and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC. 1996	DRAWN BY CJB	PLANS CK'D. JAR

SUBSURFACE EXPLORATION

SHEET 3 OF 10

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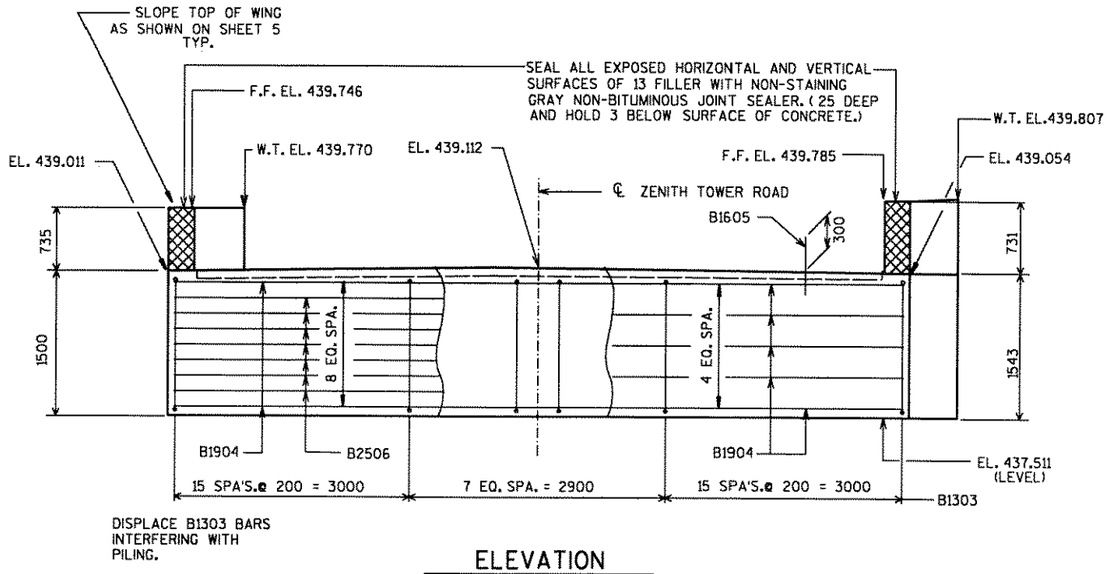
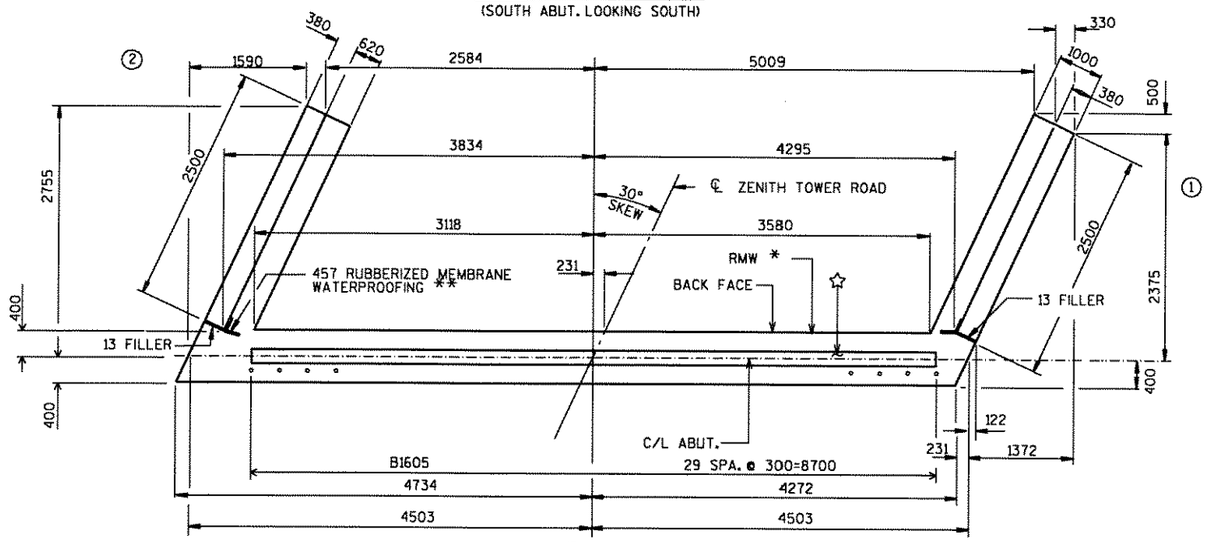
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	

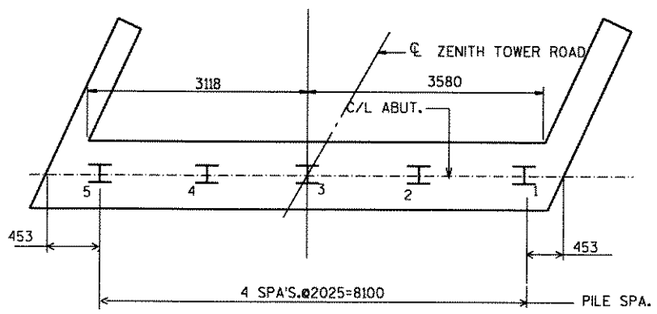


DISPLACE B1303 BARS INTERFERING WITH PILING.

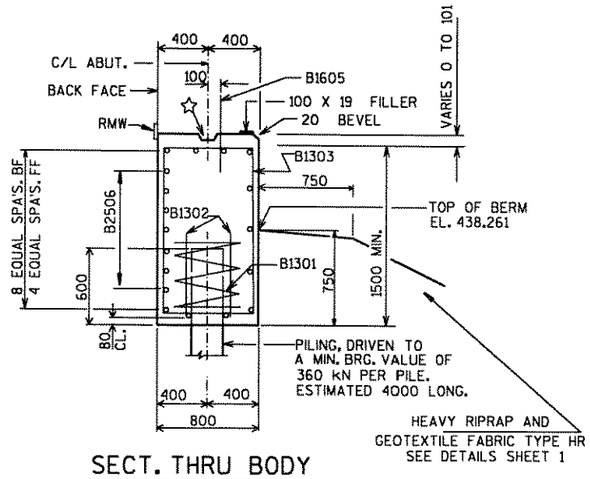
ELEVATION
(SOUTH ABUT. LOOKING SOUTH)



PLAN



PILE PLAN



SECT. THRU BODY

ALL HORIZONTAL BARS NOT LABELLED ARE B1904 BARS.

B.F.=BACK FACE
W.T.=WING TIP
F.F.=FRONT FACE

** 457 RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING AND BETWEEN INSIDE FACES OF WINGS.

NOTE: SEAL ALL VERT. AND HORIZ. JOINTS OF RUBBERIZED MEMBRANE WATERPROOFING.

* EXTEND BETWEEN WINGS HORIZ. OVER FILLETS.

☆ CONST. JOINT KEYWAY FORMED WITH A SURFACED, BEVELED 38 X 140. TERMINATE 300 FROM ABUT. ENDS

NOTE: FILL/EXCAVATE TO BOTTOM OF FOOTING EL. 437.511 BEFORE DRIVING PILING.

NOTE: B1605 BARS MAY BE PLACED AFTER CONC. IS POURED, BUT BEFORE INITIAL SET HAS OCCURED.

NOTE: ABUTMENT SUPPORTED ON HP 250mm X 62kg/m STEEL PILING DRIVEN TO A MIN. BRG. VALUE OF 360 kN PER PILE, EST. 4000 LONG. PILE POINTS REQUIRED.

NOTE: FOR PILE SPLICE AND PILE POINT DETAIL SEE SHEET 2.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

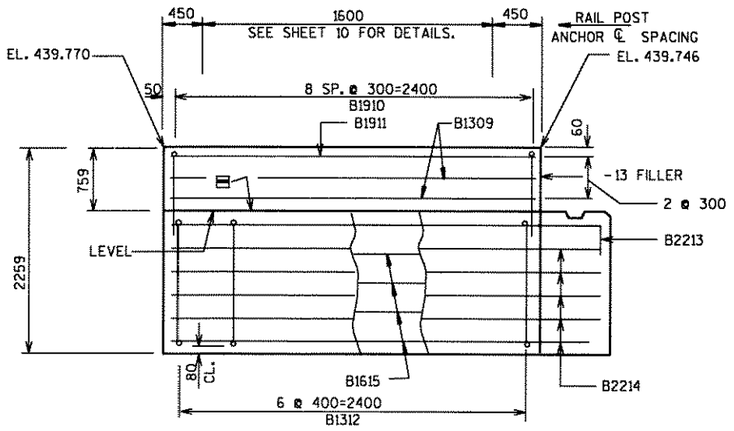
STRUCTURE B-35-137

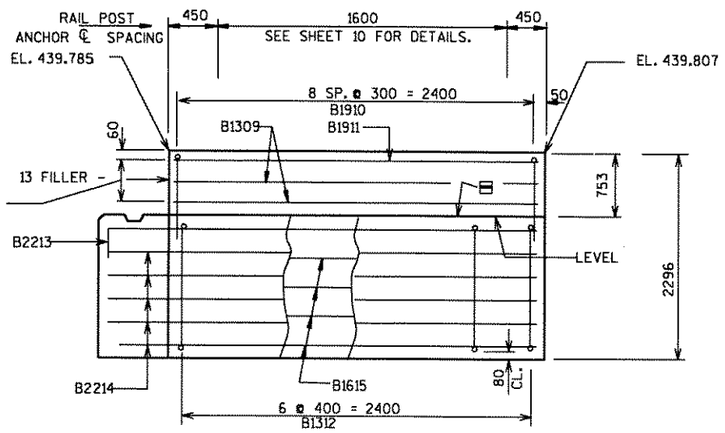
CONST. SPEC.	1996	DRAWN BY	NJA	PLANS CK'D.	CJB

SOUTH ABUTMENT

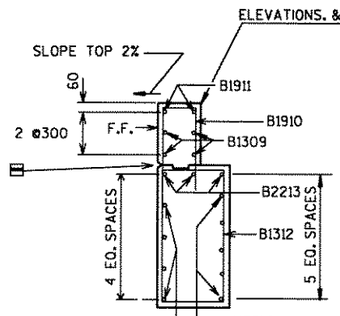
SHEET 4 OF 10

STATE PROJECT NUMBER	SHEET NO.
9865-01-70	

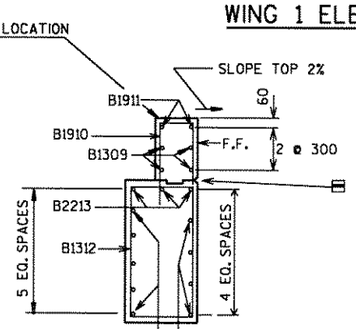




WING 2 ELEVATION



WING 1 ELEVATION



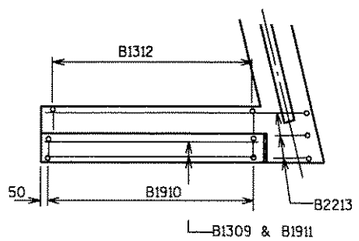
WING 2 SECTION

SEE SHEET 10 FOR RAIL POST ANCHORS.

WING 1 SECTION

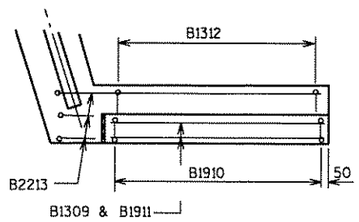
SEE SHEET 10 FOR RAIL POST ANCHORS.

OPT. CONST. JOINT- FORMED BY SURFACED, BEVELED 38 x 140 KEYWAY 20 'V' GROOVE ON F.F. OF WINGWALL IF JOINT IS USED.



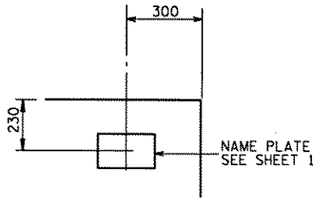
WING 2 PLAN

SPACE B1910 TO MISS ANCHORS FOR RAIL POSTS.



WING 1 PLAN

SPACE B1910 TO MISS ANCHORS FOR RAIL POSTS.



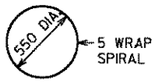
NAME PLATE LOCATION

ON WING 2

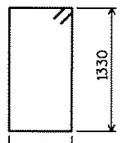
BILL OF BARS

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	CUT. DIAG.	LOCATION
B1301	5	8600	X			BODY - ONE PER PILE
B1302	10	700				BODY - TWO PER PILE
B1303	38	4160	X			BODY - STIRRUPS
B1904	11	8900				BODY - HORIZ.
B1605	30	600				BODY - VERT.- DOWELS
B2506	7	8900				BODY - HORIZ.
B1309	8	2400				WING 1& 2 - TOP HORZ.
B1910	18	2200	X	X		WING 1& 2 - TOP VERT.
B1911	4	2400		X		WING 1& 2 - TOP HORZ.
B1312	14	4550	X			WING 1& 2 - BASE VERT.
B2213	6	3300	X			WING 1& 2 BASE TOP HORZ.
B2214	10	2950				WING 1& 2 - BASE HORZ.
B1615	8	3100				WING 1& 2 - BASE HORZ.

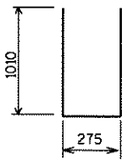


B1301

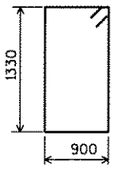


B1303

B2213



B1910



B1312

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC.	1996	DRAWN BY	NJA	PLANS CK'D.	CJB

SOUTH ABUTMENT

SHEET 5 OF 10

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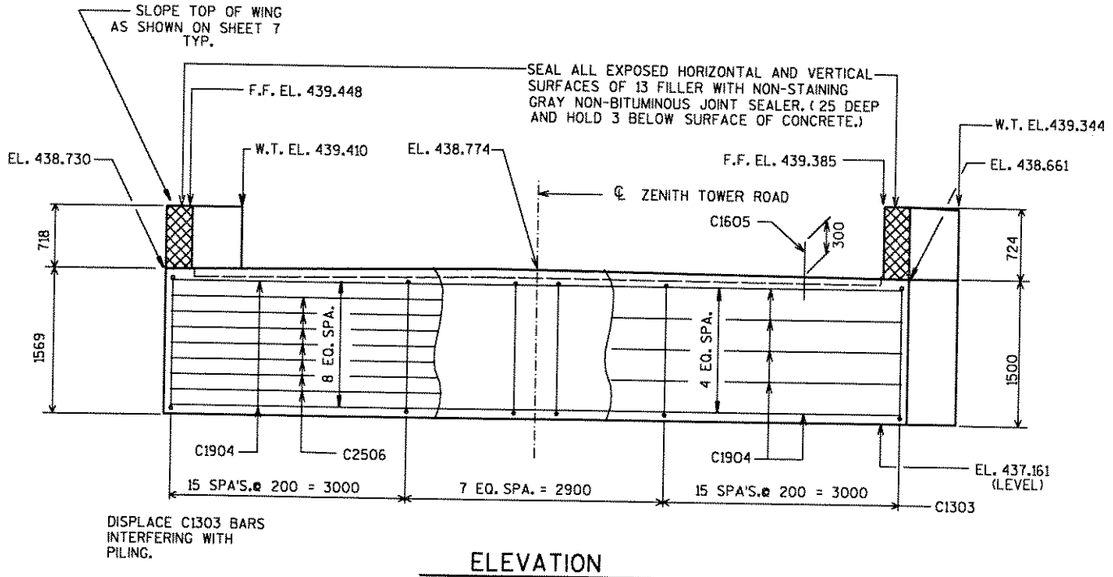
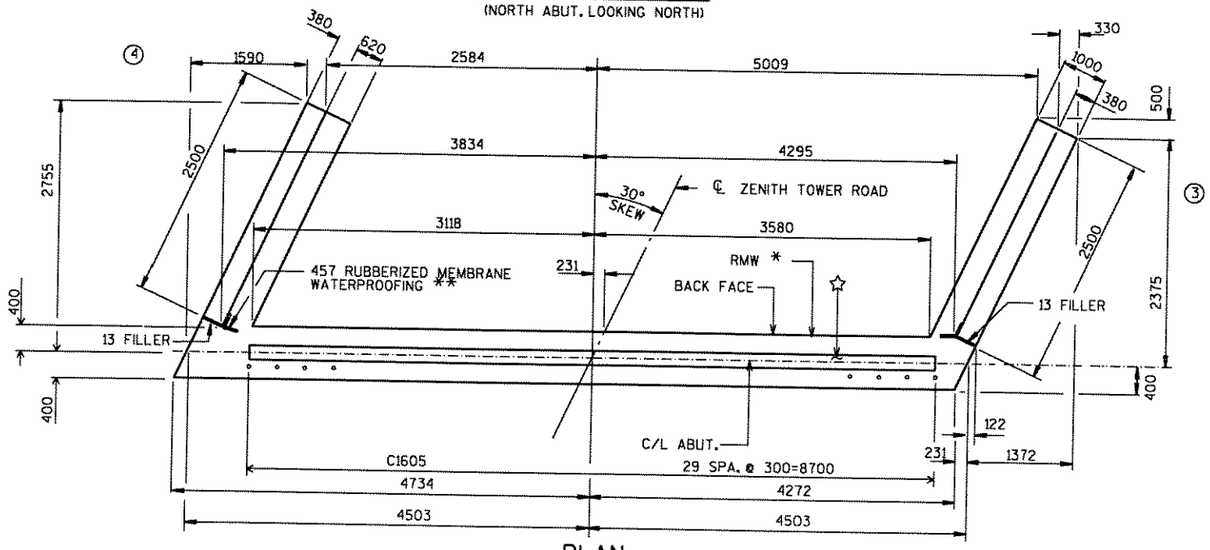
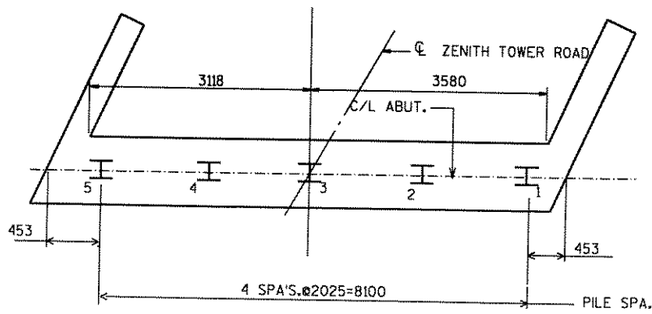
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	



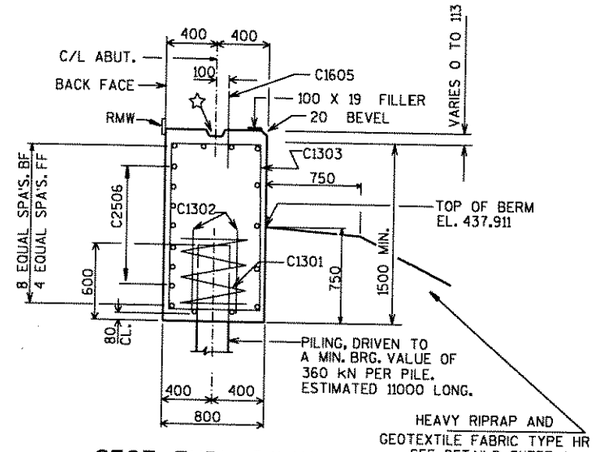
ELEVATION
(NORTH ABUT. LOOKING NORTH)



PLAN



PILE PLAN



SECT. THRU BODY

ALL HORIZONTAL BARS NOT LABELLED ARE C1904 BARS.

B.F.=BACK FACE
W.T.=WING TIP
F.F.=FRONT FACE

** 457 RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING AND BETWEEN INSIDE FACES OF WINGS.

NOTE: SEAL ALL VERT. AND HORIZ. JOINTS OF RUBBERIZED MEMBRANE WATERPROOFING.

* EXTEND BETWEEN WINGS HORIZ. OVER FILLETS.

☆ CONST. JOINT KEYWAY FORMED WITH A SURFACED, BEVELED 38 X 140. TERMINATE 300 FROM ABUT. ENDS

NOTE: FILL/EXCAVATE TO BOTTOM OF FOOTING EL. 437.161 BEFORE DRIVING PILING.

NOTE: C1605 BARS MAY BE PLACED AFTER CONC. IS POURED, BUT BEFORE INITIAL SET HAS OCCURED.

NOTE: ABUTMENT SUPPORTED ON HP 250mm X 62kg/m STEEL PILING DRIVEN TO A MIN. BRG. VALUE OF 360 kN PER PILE. EST. 11000 LONG. PILE POINTS REQUIRED.

NOTE: FOR PILE SPLICE AND PILE POINT DETAIL SEE SHEET 2.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

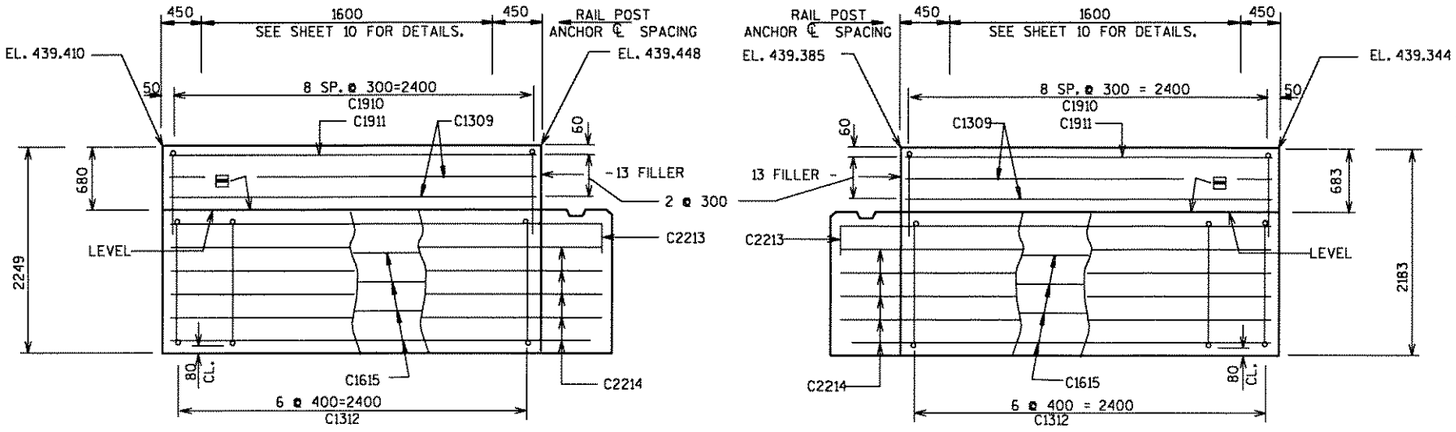
STRUCTURE B-35-137

CONST. SPEC.	1996	DRAWN BY	NJA	PLANS CK'D.	CJB

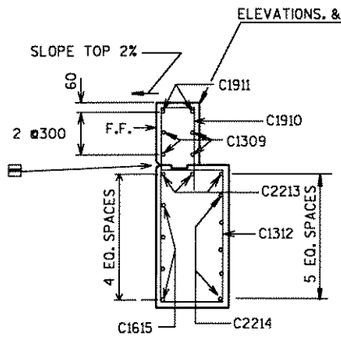
NORTH ABUTMENT

SHEET 6 OF 10

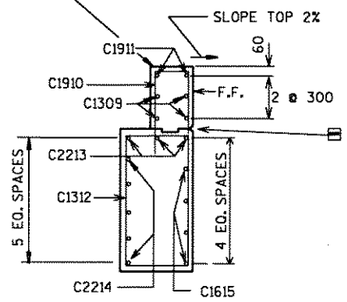
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	



WING 4 ELEVATION



WING 3 ELEVATION



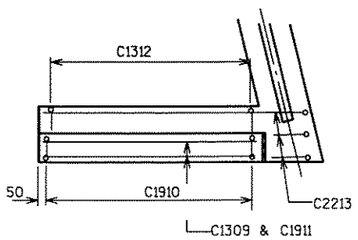
WING 4 SECTION

SEE SHEET 10 FOR RAIL POST ANCHORS.

WING 3 SECTION

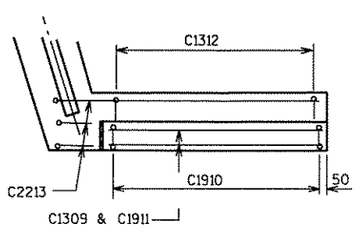
SEE SHEET 10 FOR RAIL POST ANCHORS.

OPT. CONST. JOINT- FORMED BY SURFACED, BEVELED 38 x 140 KEYWAY 20 'V' GROOVE ON F.F. OF WINGWALL IF JOINT IS USED.



WING 4 PLAN

SPACE C1910 TO MISS ANCHORS FOR RAIL POSTS.



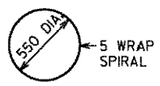
WING 3 PLAN

SPACE C1910 TO MISS ANCHORS FOR RAIL POSTS.

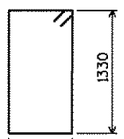
BILL OF BARS

NOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	CUT. DIAG.	LOCATION
C1301	5	8600	X			BODY - ONE PER PILE
C1302	10	700				BODY - TWO PER PILE
C1303	38	4160	X			BODY - STIRRUPS
C1904	11	8900				BODY - HORIZ.
C1605	30	600				BODY - VERT.- DOWELS
C2506	7	8900				BODY - HORIZ.
C1309	8	2400				WING 3 & 4 - TOP HORZ.
C1910	18	2200	X	X		WING 3 & 4 - TOP VERT.
C1911	4	2400		X		WING 3 & 4 - TOP HORZ.
C1312	14	4550	X			WING 3 & 4 - BASE VERT.
C2213	6	3300	X			WING 3 & 4 BASE TOP HORZ.
C2214	10	2950				WING 3 & 4 - BASE HORZ.
C1615	8	3100				WING 3 & 4 - BASE HORZ.

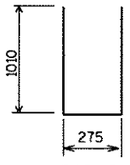


C1301

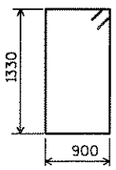


C1303

C2213



C1910



C1312

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC.	1996	DRAWN BY	NJA	PLANS CK'D.	CJB

NORTH ABUTMENT

SHEET 7 OF 10

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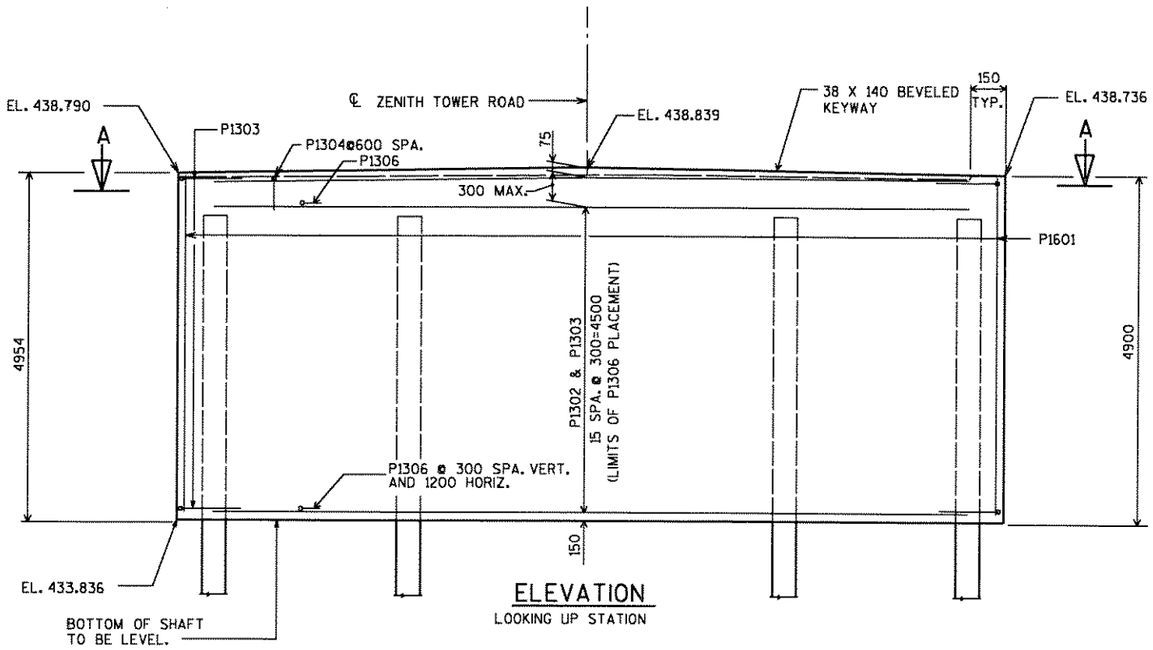
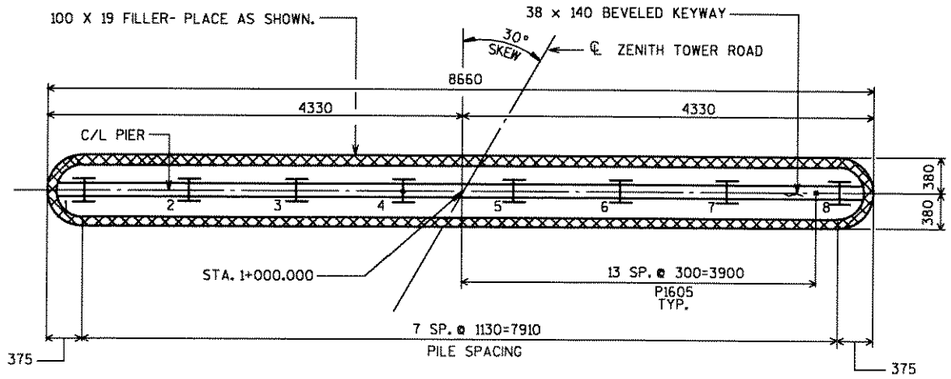
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	



ELEVATION

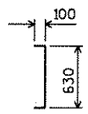
LOOKING UP STATION



PLAN

P1304

P1303

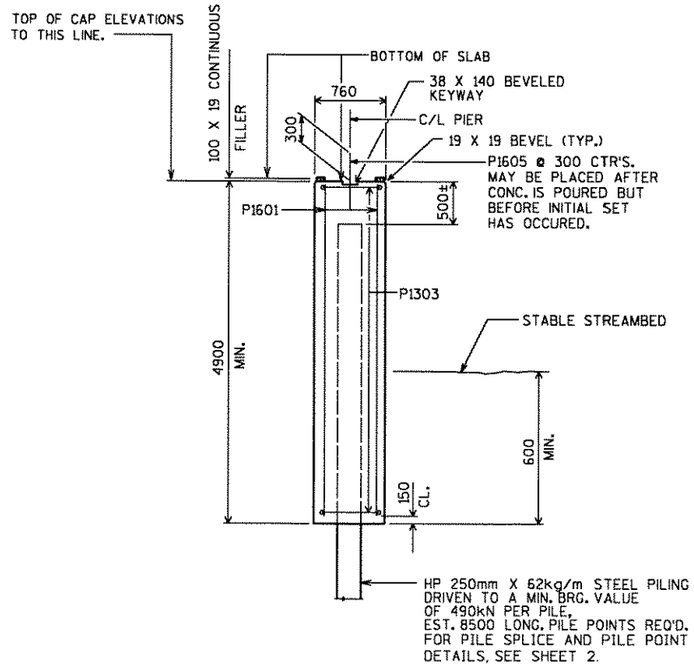


P1306

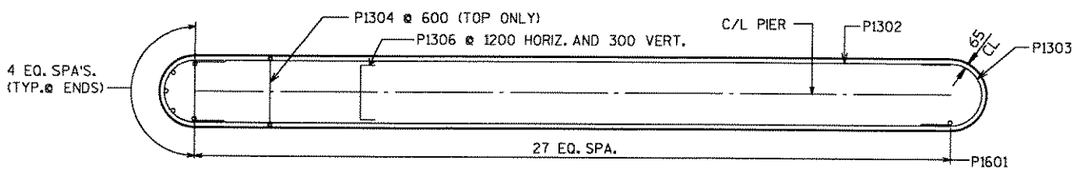
BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
P1601		62	4675		VERTICAL
P1302		34	7900		HORIZONTAL
P1303		34	1590	X	HORIZONTAL
P1304		14	1370	X	HOOKS - TOP
P1605		27	600		DOWELS - VERTICAL
P1306		112	770	X	TIE BARS



END VIEW



SECTION A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC. 1996	DRAWN BY NJA	PLANS CK'D. CJB

PIER

SHEET 8 OF 10

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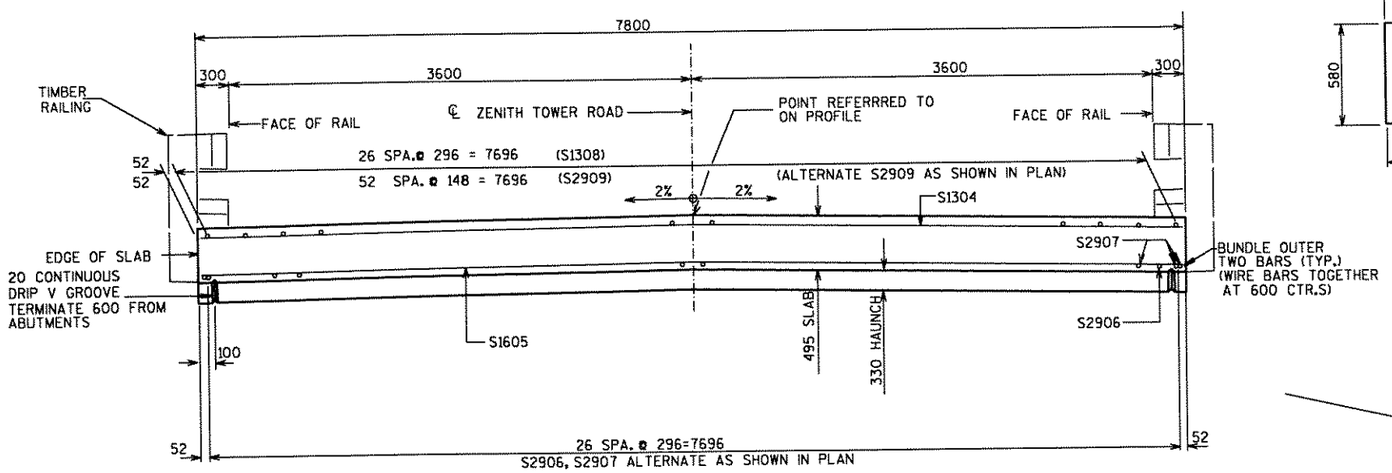
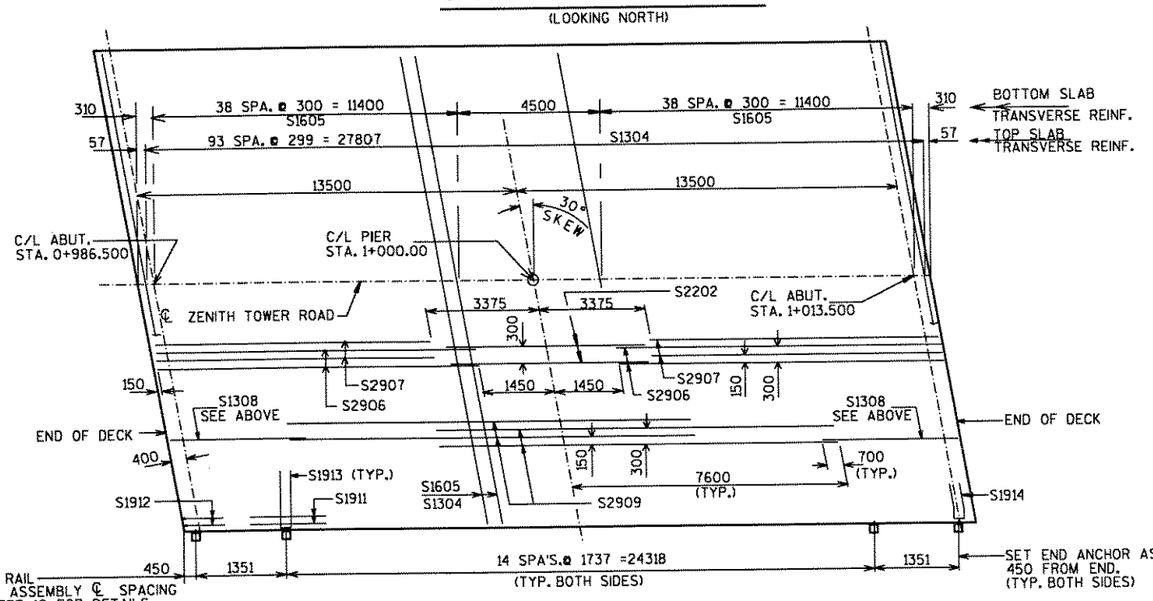
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	

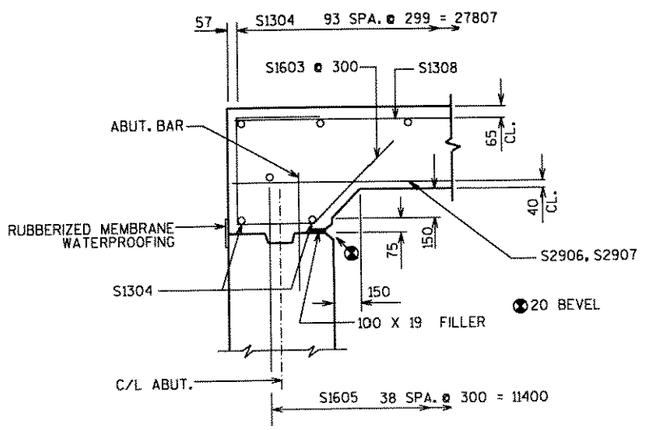


CROSS SECT. THRU RDWY.

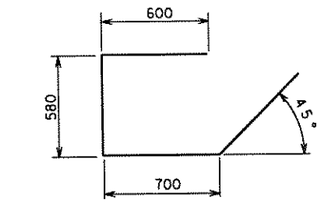
(LOOKING NORTH)



PLAN

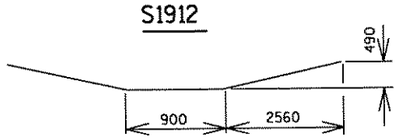


DETAILS AT ABUTMENTS

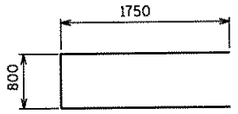


S1603

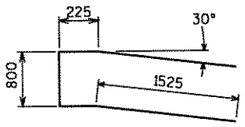
S1912



S2202



S1913

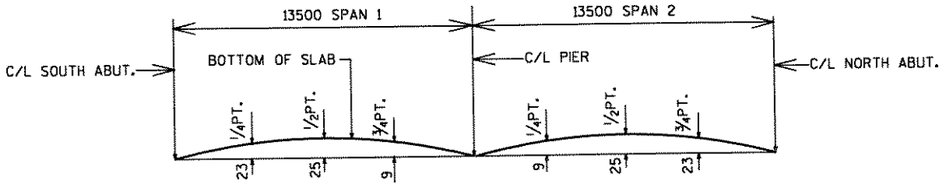


S1914

BILL OF BARS

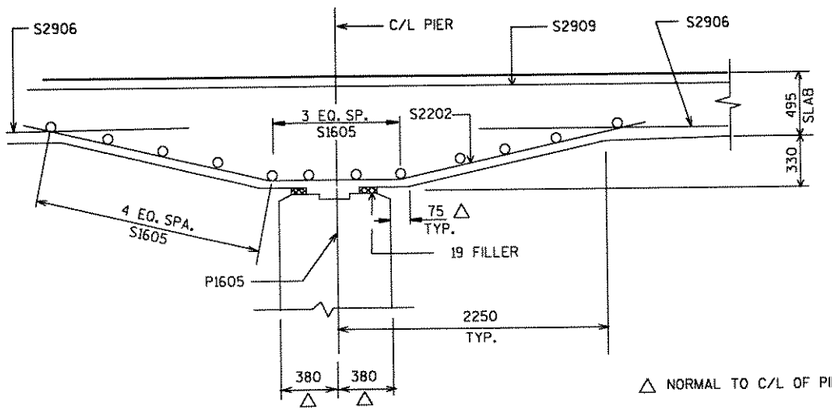
THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.
EPOXY COAT ALL TOP BARS.

BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
S2202	27	6100	X		HAUNCH AT PIER
S1603	62	2360	X	ALL	AT END OF DECK
S1304	98	8890		ALL	SLAB, TOP, TRANSVERSE
S1605	88	8890			SLAB, BOTTOM, TRANSVERSE
S2906	54	12360			SLAB, BOTTOM, LONGIT.
S2907	54	10435			SLAB, BOTTOM, LONGIT.
S1308	58	7000		ALL	SLAB, TOP, LONGIT.
S2909	53	12330		ALL	SLAB, TOP, LONGIT.
S1911	60	1200		ALL	AT INTERIOR RAIL POSTS
S1912	8	1200	X	ALL	AT END RAIL POSTS
S1913	30	4200	X	ALL	AT INTERIOR RAIL POSTS
S1914	4	4200	X	ALL	AT END RAIL POSTS



CAMBER DIAGRAM

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION & FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.



DETAILS HAUNCH AT PIER

ALTERNATE TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 900mm CENTERS. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 1200mm CENTERS.

TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE C/L OF SUBSTRUCTURE UNITS.

THE SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC. 1996	DRAWN BY NJA	PLANS CK'D. CJB

SUPERSTRUCTURE

SHEET 9 OF 10

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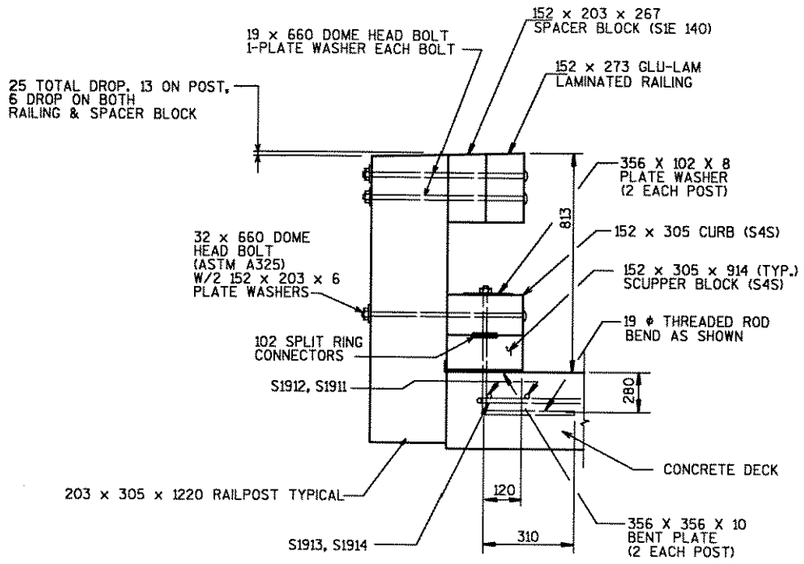
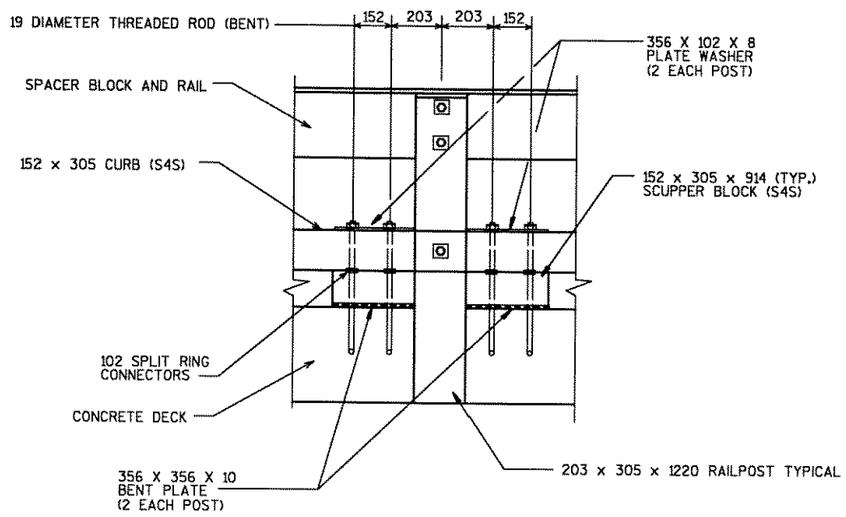
STATE PROJECT NUMBER	SHEET NO.
9865-01-70	



SECTION AT RAILPOST
(ON DECK)



CURB AND SCUPPER DETAIL

NOTES

ALL REQ'D. CONNECTORS AND HARDWARE ARE INCLUDED IN THE COST FOR "TREATED LUMBER AND TIMBER".

ALL TIMBER CONNECTORS AND HARDWARE SHALL BE GALVANIZED.

ALL PLATE WASHERS SHALL BE 76 X 76 X 8 UNLESS OTHERWISE SHOWN OR NOTED.

DESTROY THREADS ON ALL BOLTS WITH A CENTER PUNCH AFTER TIGHTENING NUT.

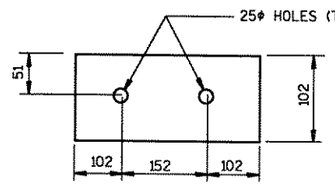
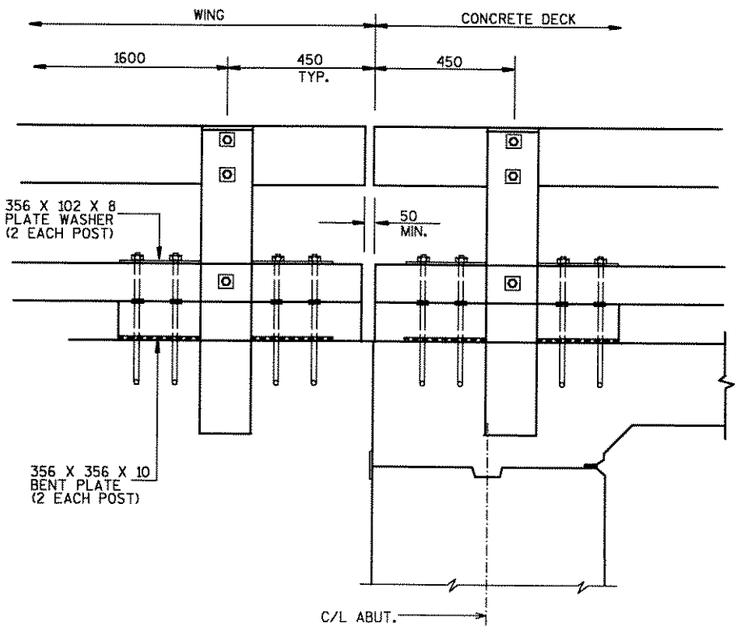


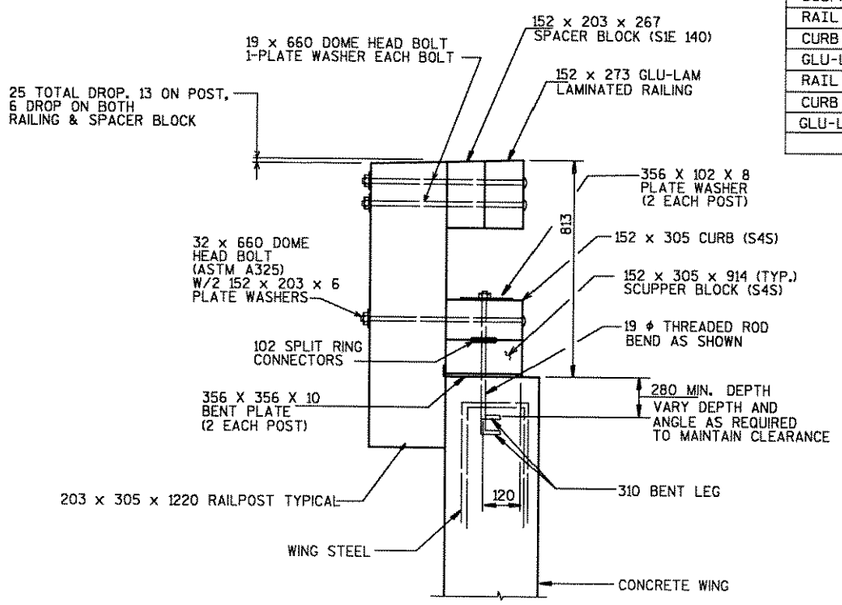
PLATE WASHER FOR THREADED ROD
356 X 102 X 8 (2 EACH POST)

BILL OF TREATED TIMBER RAILING

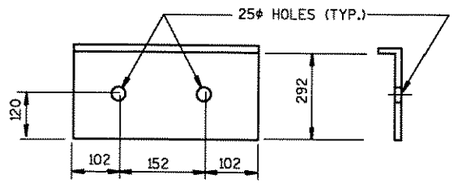
ITEM	NO REQ'D.	SIZE
SCUPPER BLOCK	42	152 X 305 X 914
RAIL POST	42	203 X 305 X 1220
CURB ON DECK	2	152 X 305 X 27920
GLU-LAM RAIL ON DECK	2	152 X 273 X 27920
RAIL POST SPACER	42	152 X 203 X 267
CURB ON WINGS	4	152 X 305 X 2450
GLU-LAM RAIL ON WINGS	4	152 X 273 X 2450



DETAILS AT ABUTMENTS



SECTION AT RAILPOST
(ON WINGS)



BENT PLATE DETAIL
356 X 356 X 10

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-137

CONST. SPEC.	1996	DRAWN BY	NJA	PLANS CK'D.	CJB

TIMBER RAILING

SHEET 10 OF 10

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