

LIST OF DRAWINGS:

1. GENERAL PLAN (1 OF 5)
2. GENERAL PLAN (2 OF 5)
3. GENERAL PLAN (3 OF 5)
4. GENERAL PLAN (4 OF 5)
5. GENERAL PLAN (5 OF 5)
6. GENERAL NOTES, DESIGN DATA & QUANTITIES
7. TYPICAL SECTION UNIT 3
8. TYPICAL SECTION UNIT 4
9. TYPICAL SECTION UNIT 5
10. TYPICAL SECTION UNIT 6
11. TYPICAL SECTION UNIT 7
12. TYPICAL SECTION UNIT 8
13. TYPICAL SECTION UNIT 9
14. TYPICAL SECTION UNIT 10
15. TYPICAL SECTION UNIT 11
16. TYPICAL SECTION UNIT 12
17. TYPICAL SECTION UNIT 13
18. PARAPET REMOVAL DETAILS
19. PARAPET DETAILS UNIT 3
20. PARAPET DETAILS UNIT 4
21. PARAPET DETAILS UNIT 5
22. PARAPET DETAILS UNIT 6
23. PARAPET DETAILS UNIT 7
24. PARAPET DETAILS UNIT 8
25. PARAPET DETAILS UNIT 9
26. PARAPET DETAILS UNIT 10
27. PARAPET DETAILS UNIT 11
28. PARAPET DETAILS UNIT 12
29. PARAPET DETAILS UNIT 13
30. CONDUIT DETAILS
31. ANCHOR BOLT DETAIL 1
32. ANCHOR BOLT DETAIL 2

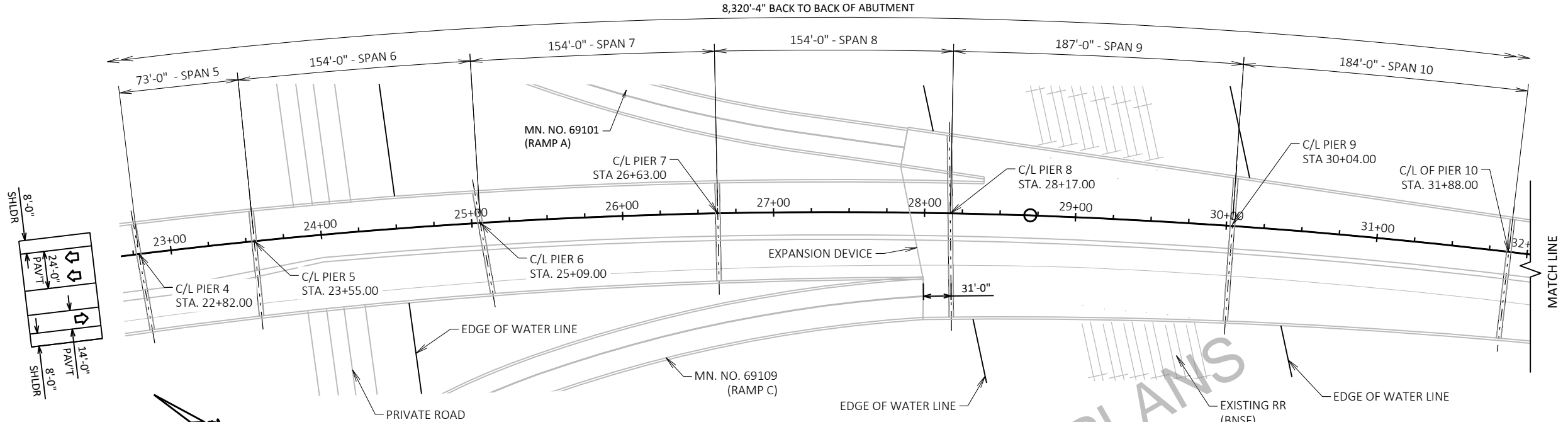
LEGEND

➡ DIRECTION OF TRAFFIC

STRUCTURE DESIGN CONTACTS:

WISDOT BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
SHELLY HARRIS (715) 309-5224

NO.	DATE	REVISION	BY
STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38 USH 2 OVER ST. LOUIS RIVER CITY OF DULUTH ST. LOUIS COUNTY			
ACCEPTED		STATE BRIDGE ENGINEER	DATE
KL Engineering [A] Better Experience			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED		CHIEF STRUCTURES DESIGN ENGINEER	DATE
STRUCTURE B-16-38 USH 2 OVER ST. LOUIS RIVER			
COUNTY	DOUGLAS	CITY	SUPERIOR
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	SKH	DESIGNED CK'D	CDH
DRAWN BY	STD	PLANS CK'D	SKH
GENERAL PLAN (1 OF 5)			SHEET 1 OF 32



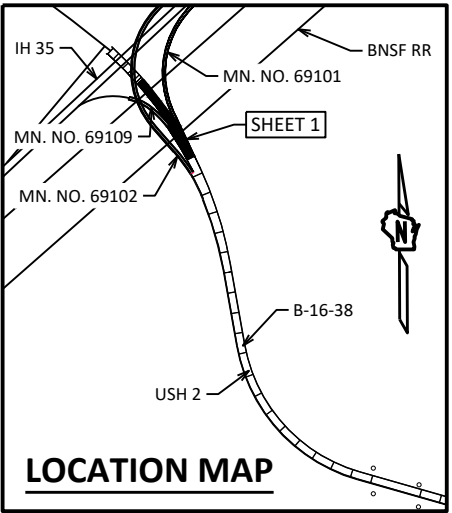
PLAN

CURVE DATA

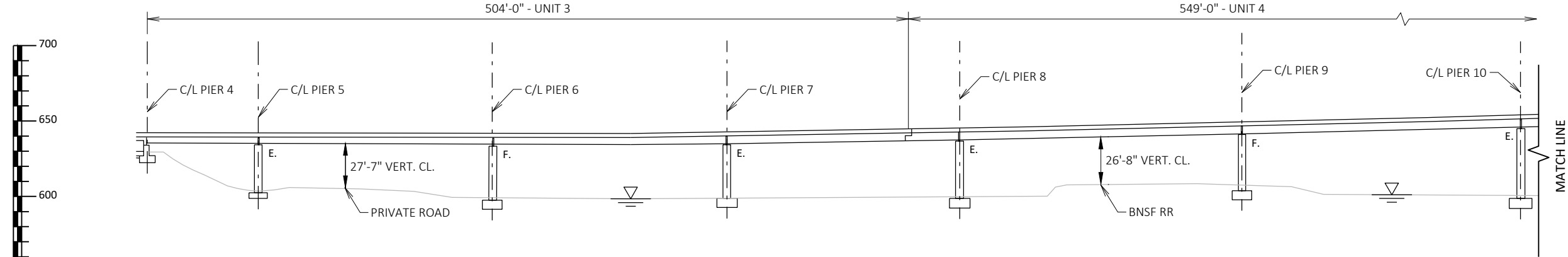
USH 2 WB

P.I. = STA. 29+42.00
Δ = 43°08'06.4"
D = 1°30'
T = 1509.83'
L = 2875.67'
R = 3819.72'
S.E. = 0.036 1/'
R.O. = 175'
P.C. = STA. 14+32.17
P.T. = STA. 43+07.85

NOTE: ALL DIMENSIONS MEASURED
ALONG BASE LINE WEST BOUND LANE &
C/L OF MEDIAN. NOTE BASE LINE SHIFT
AT STA. 43+07.85.



LOCATION MAP



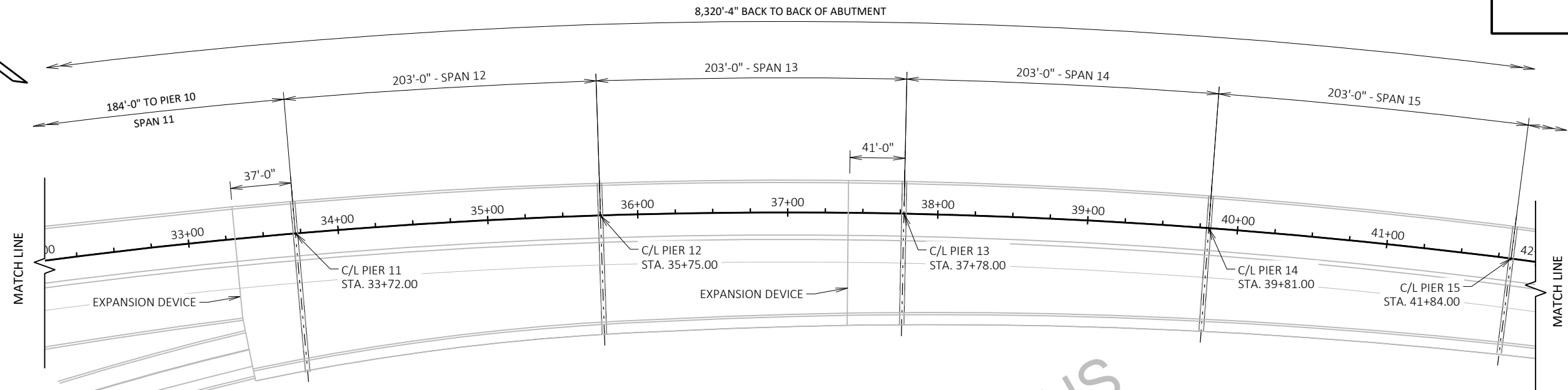
ELEVATION

(NORMAL TO SUBSTRUCTURE UNITS)

CURVE DATA

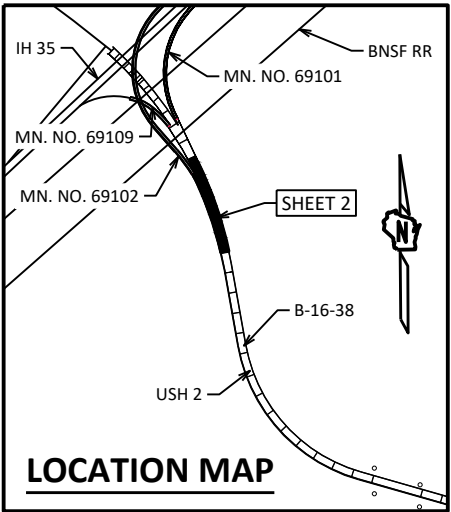
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P.I. = STA. 29+42.00
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D = $1^{\circ}30'$
T = 1509.83'
L = 2875.67'
R = 3819.72'
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R.O. = 175'
P.C. = STA. 14+32.17
P.T. = STA. 43+07.85

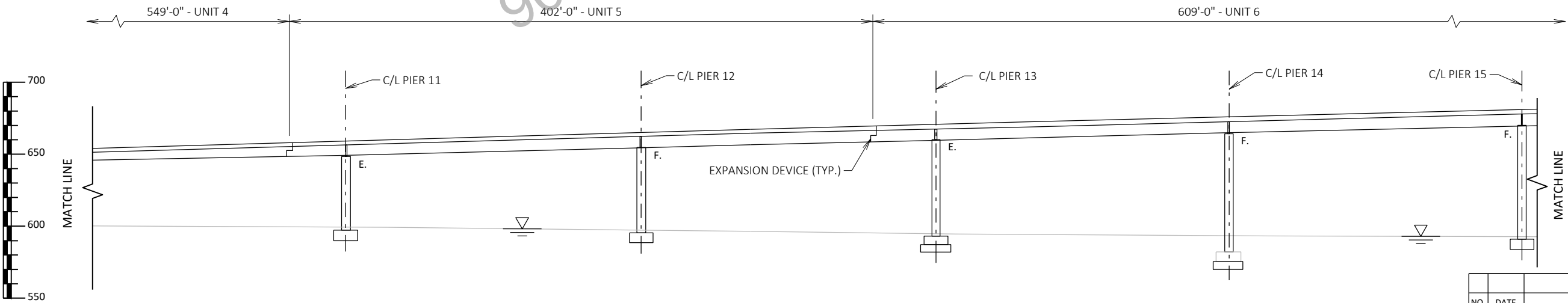


NOTE: ALL DIMENSIONS MEASURED
ALONG BASE LINE WEST BOUND LANE &
C/L OF MEDIAN. NOTE BASE LINE SHIFT
AT STA. 43+07.85.

PLAN



LOCATION MAP



ELEVATION
(NORMAL TO SUBSTRUCTURE UNITS)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38			
DRAWN BY		STD	PLANS CK'D SKH
GENERAL PLAN (2 OF 5)			SHEET 2

CURVE DATA

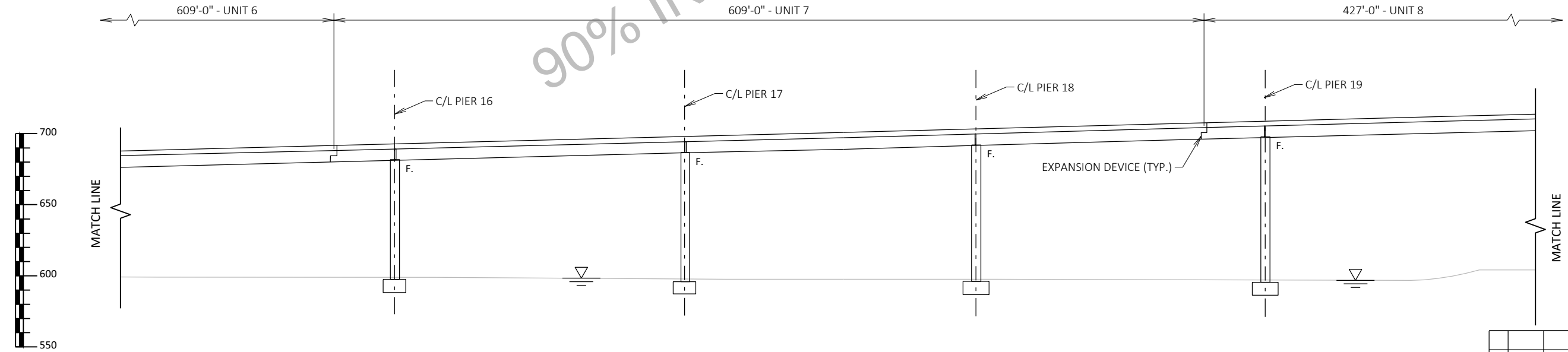
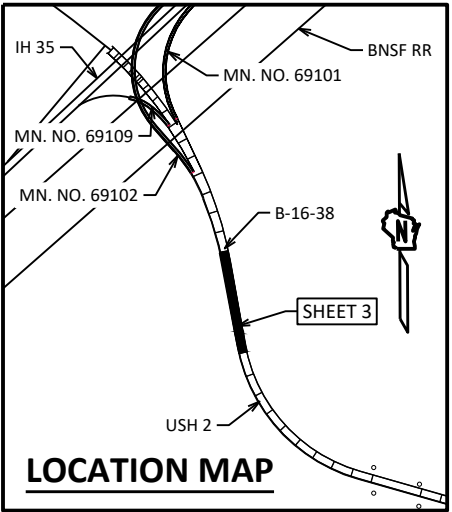
USH 2 WB
P.I. = STA. 61+39.96
Δ = 64°00'00.1"
D = 3°30'
T = 1022.93'
L = 1828.57'
R = 1637.02'
S.E. = 0.052'/'
R.O. = 162'
P.C. = STA. 51+17.04
P.T. = STA. 69+45.61

CURVE DATA

USH 2 WB
P.I. = STA. 29+42.00
Δ = 43°08'06.4"
D = 1°30'
T = 1509.83'
L = 2875.67'
R = 3819.72'
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P.C. = STA. 14+32.17
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NOTE: ALL DIMENSIONS MEASURED
ALONG BASE LINE WEST BOUND LANE &
C/L OF MEDIAN. NOTE BASE LINE SHIFT
AT STA. 43+07.85.

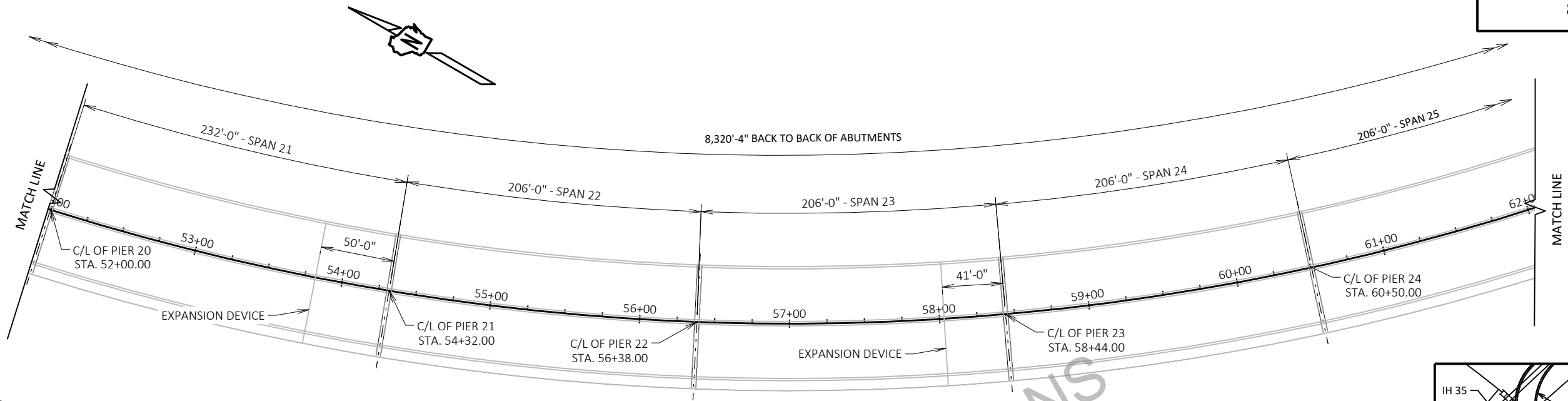
PLAN



ELEVATION

(NORMAL TO SUBSTRUCTURE UNITS)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38			
DRAWN BY		STD	PLANS CK'D SKH
GENERAL PLAN (3 OF 5)			SHEET 3



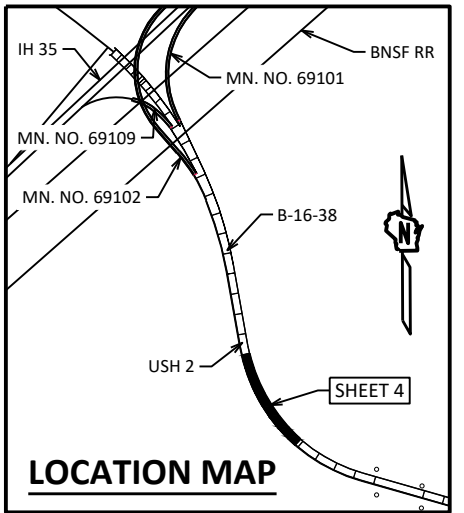
CURVE DATA

USH 2 WB

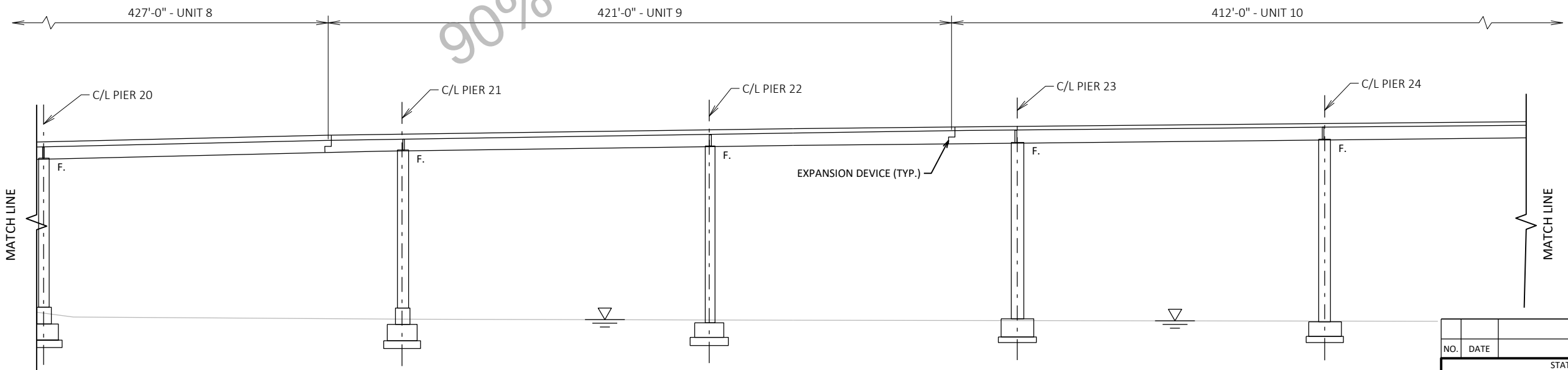
P.I. = STA. 61+39.96
 $\Delta = 64^{\circ}00'00.1''$
 $D = 3^{\circ}30'$
 $T = 1022.93'$
 $L = 1828.57'$
 $R = 1637.02'$
 $S.E. = 0.0521'$
 $R.O. = 162'$
P.C. = STA. 51+17.04
P.T. = STA. 69+45.61

NOTE: ALL DIMENSIONS MEASURED
ALONG BASE LINE WEST BOUND LANE &
C/L OF MEDIAN. NOTE BASE LINE SHIFT
AT STA. 43+07.85.

PLAN



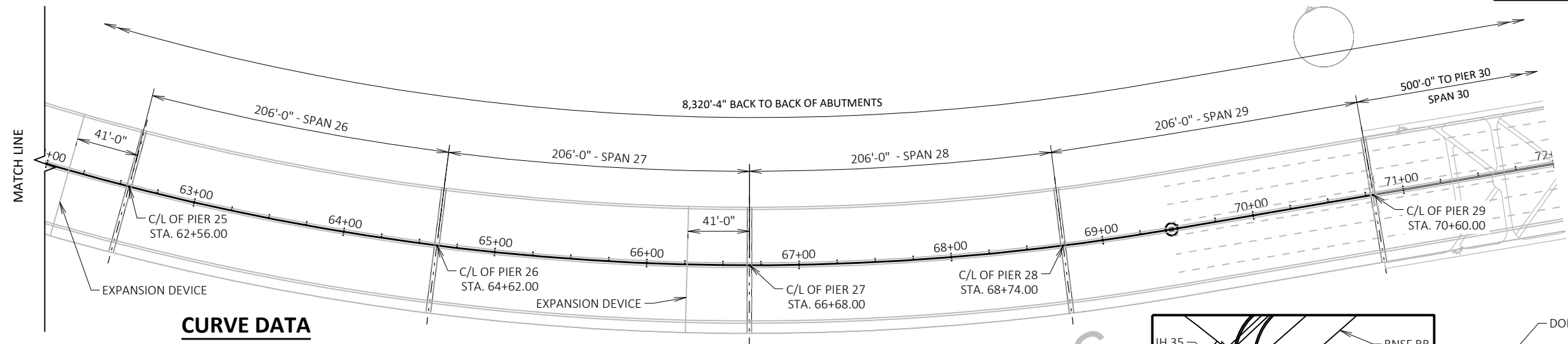
LOCATION MAP



ELEVATION

(NORMAL TO SUBSTRUCTURE UNITS)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38			
DRAWN BY		STD	PLANS CK'D SKH
GENERAL PLAN (4 OF 5)		SHEET 4	

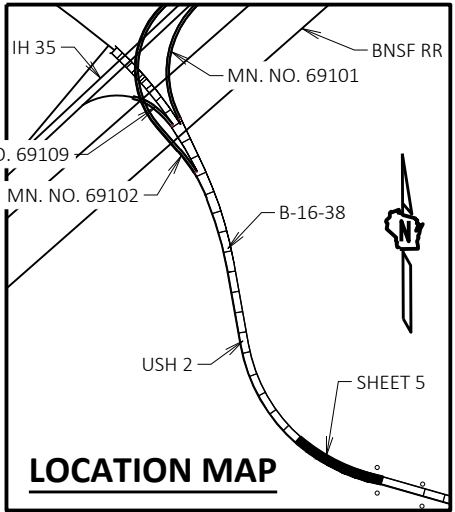


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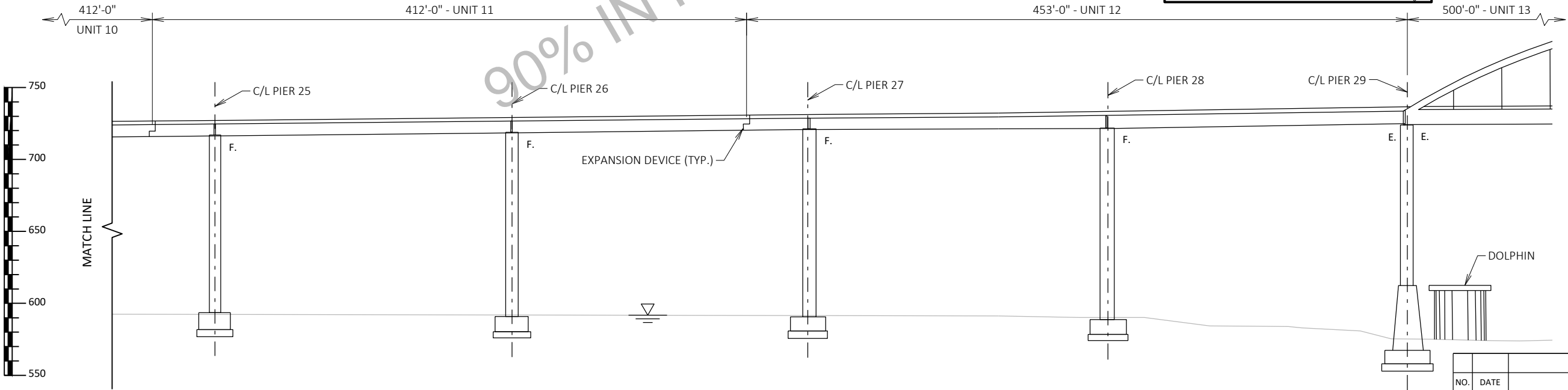
USH 2 WB
P.I. = STA. 61+39.96
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D = 3°30'
T = 1022.93'
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NOTE: ALL DIMENSIONS MEASURED
ALONG BASE LINE WEST BOUND LANE &
C/L OF MEDIAN. NOTE BASE LINE SHIFT
AT STA. 43+07.85.

PLAN



LOCATION MAP



ELEVATION

(NORMAL TO SUBSTRUCTURE UNITS)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38			
DRAWN BY		STD	PLANS CK'D SKH
GENERAL PLAN (5 OF 5)		SHEET 5	

DESIGN DATA

LIVE LOAD:

TAKEN FROM HSI 8/22/2024
DESIGN LOADING: HS 20

UNIT	INVENTORY RATING	OPERATING RATING	WIS-SPV
3	24	40	190
4	29	48	190
5	37	61	190
6	29	48	190
7	25	42	190
8	53	88	190
9	59	98	190
10	47	78	190
11	47	78	190
12	51	85	190
13	28	47	250

MATERIAL PROPERTIES:

CONCRETE MASONRY: _____ f_c = 4,000 PSI
SUPERSTRUCTURE _____

BAR STEEL REINFORCEMENT _____ f_y = 60,000 PSI
GRADE 60 _____

TRAFFIC DATA

USH 2:

AADT = 14,800 (2020)
AADT = 16,130 (2044)
R.D.S. = 55 MPH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" OR MATCH EXISTING BEVELS, UNLESS OTHERWISE NOTED.

ALL REMOVAL LINES SHALL BE DEFINED BY A 1/2-INCH SAWCUT.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE, TOP, AND BACKFACE OF THE PARAPETS.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1-INCH DEEP AND HOLD ⅙" BELOW SURFACE OF THE CONCRETE). COLOR TO MATCH ADJACENT SURFACES.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M153 TYPE 1, 2, OR 3, OR AASHTO M213.

SEE ROADWAY PLANS FOR STAGING DETAILS.

"REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE" BID ITEM INCLUDES REMOVAL OF EXISTING PARAPETS, LIGHTING CONDUIT AND JUNCTION BOXES, AND OTHER REMOVALS AS REQUIRED FOR COMPLETION OF WORK.

SCOPE OF WORK

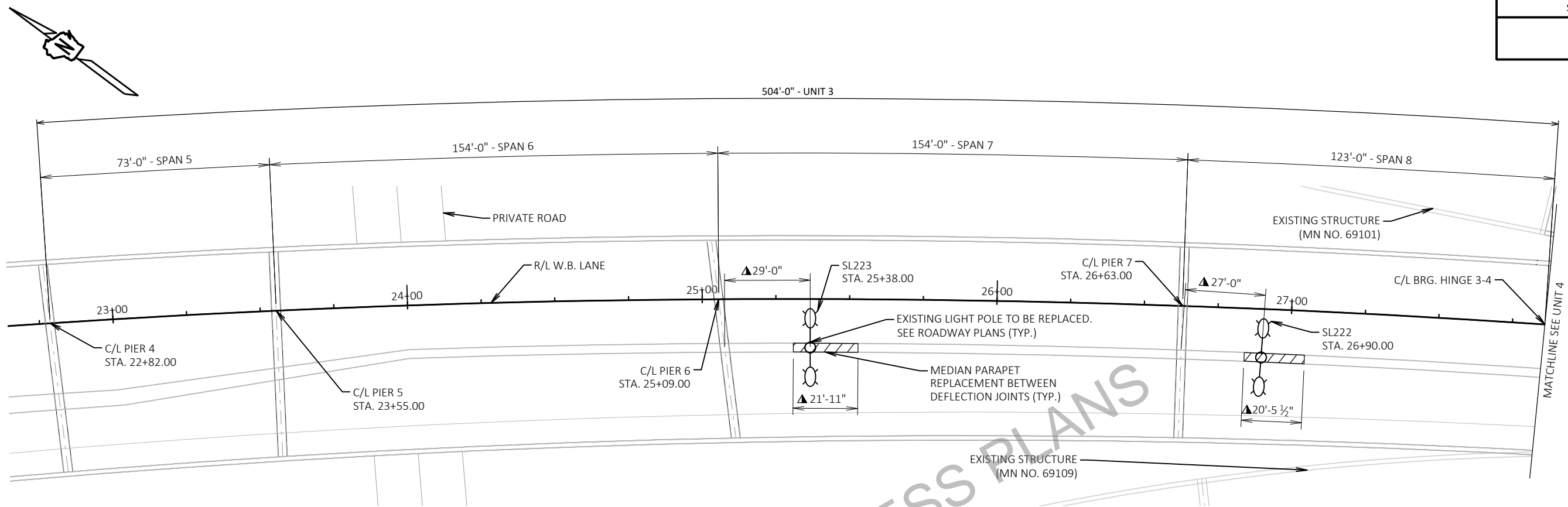
- REMOVAL AND REPLACEMENT OF CONCRETE PARAPETS AND EMBEDDED CONDUIT AND JUNCTION BOXES.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8	UNIT 9	UNIT 10	UNIT 11	UNIT 12	UNIT 13	TOTALS
203.0270	REMOVING STRUCTURE OVER WATERWAY DEBRIS CAPTURE B-16-38	EACH	---	---	---	---	---	---	---	---	---	---	---	1
502.0100	CONCRETE MASONRY BRIDGES	CY	8.5	6.6	4.4	13.6	13.6	9.1	9.3	8.5	8.5	8.6	4.8	96
502.3210	PIGMENTED SURFACE SEALER	SY	35.0	29.0	20.0	57.0	57.0	38.0	38.0	35.0	35.0	35.0	20.0	399
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	60	96	64	94	97	63	65	60	60	60	34	753
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LBS	550	830	550	860	870	570	590	550	550	550	310	6,780
531.8990	ANCHOR ASSEMBLIES POLES ON STRUCTURES	EACH	2	3	2	3	3	2	2	2	2	2	1	24
652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	3	5	3	5	5	3	3	3	3	3	3	38
652.0220	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	3	2	---	---	---	---	2	---	---	---	---	6
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	39	74	503	9	75	50	51	47	47	47	26	547
SPV.0060	JUNCTION BOXES 8X8X6-INCH	EACH	---	1	---	---	---	---	1	---	---	---	---	2
	NON-BID ITEMS													
	FILLER	SIZE		1"	1"									1"

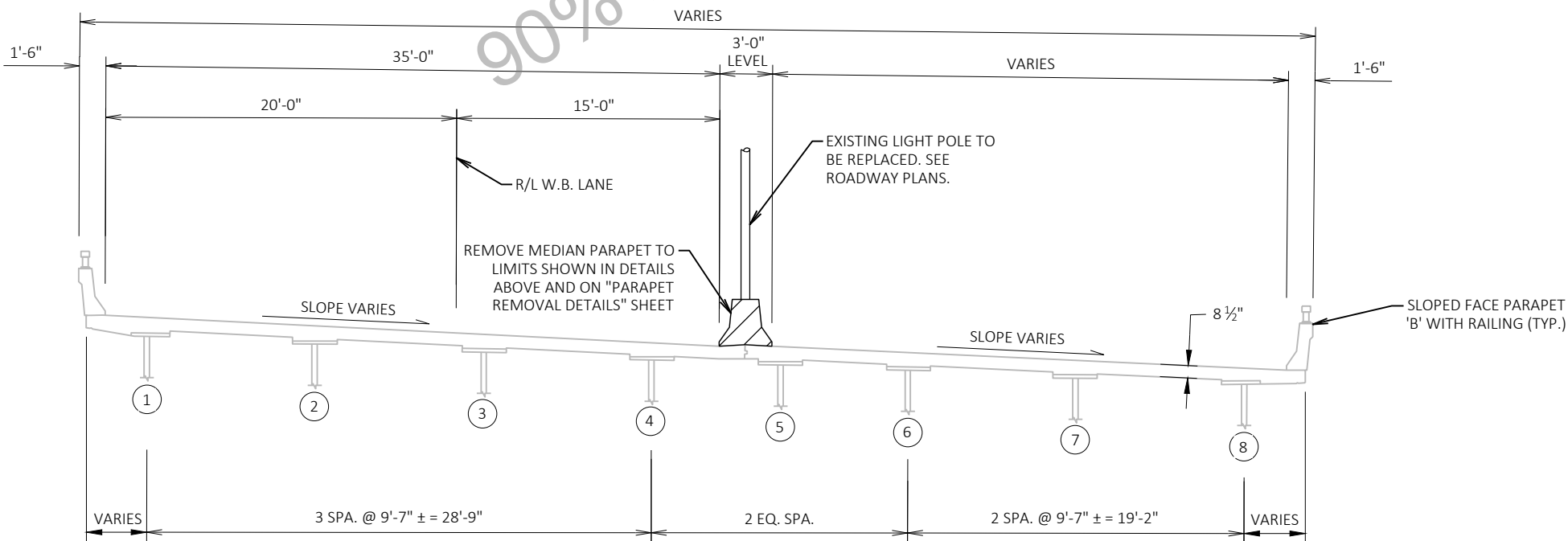
ALL ITEMS ARE INCLUDED IN CATEGORY 0030

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-38			
DRAWN BY		STD	PLANS CK'D SKH
GENERAL NOTES, DESIGN DATA & QUANTITIES			SHEET 6



PLAN - UNIT 3

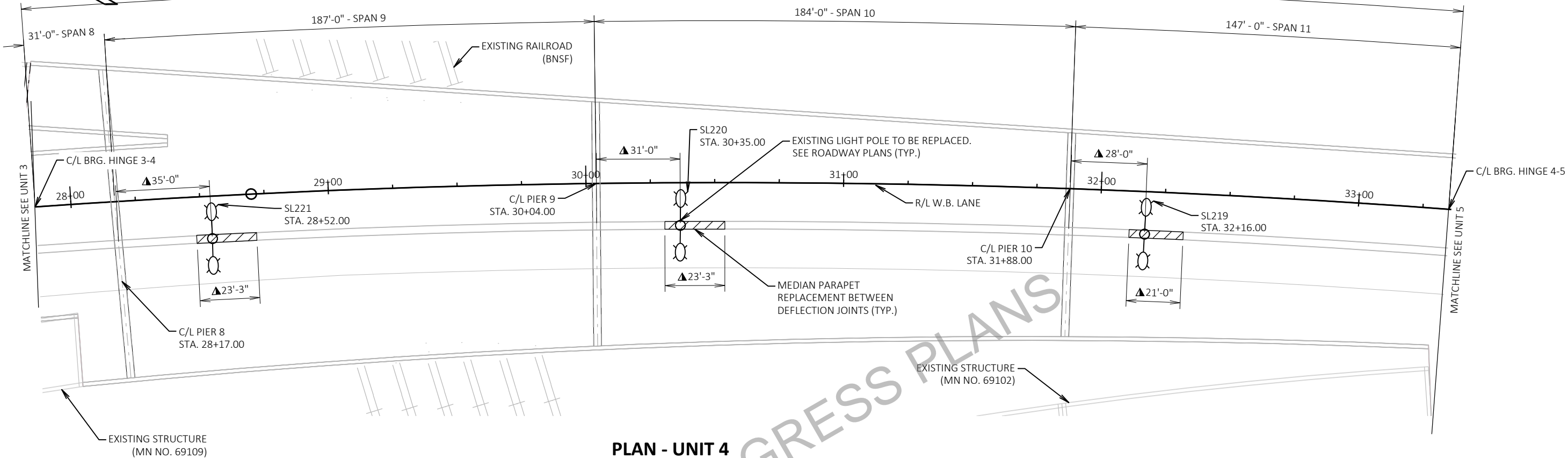
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TYPICAL SECTION
LOOKING UPSTATION

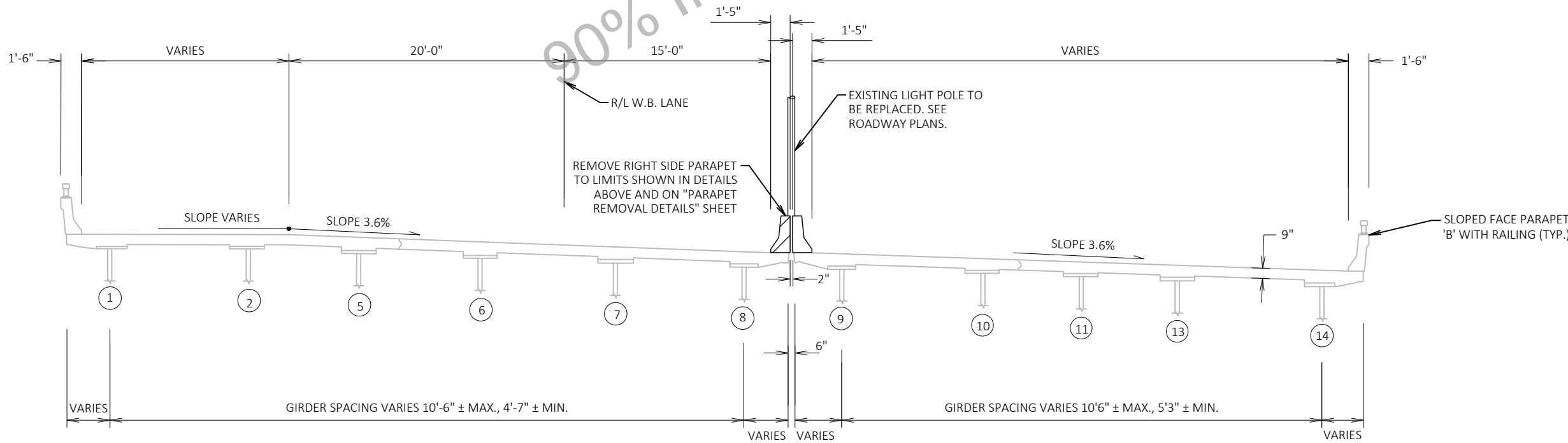
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 3			SHEET 7

549'-0" - UNIT 4



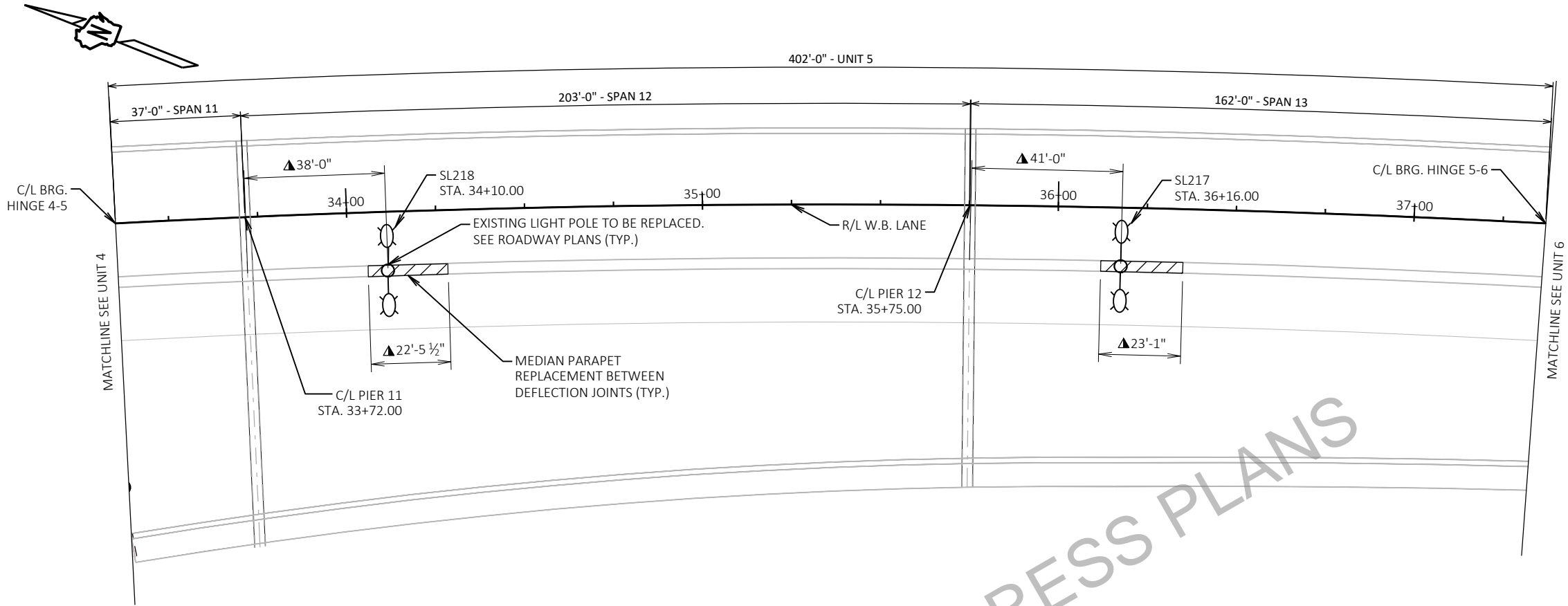
PLAN - UNIT 4

▲ MEASURED ALONG BASE LINE WEST BOUND LANE ACCORDING TO AS BUILTS. DIMENSIONS IN FIELD MAY VARY.



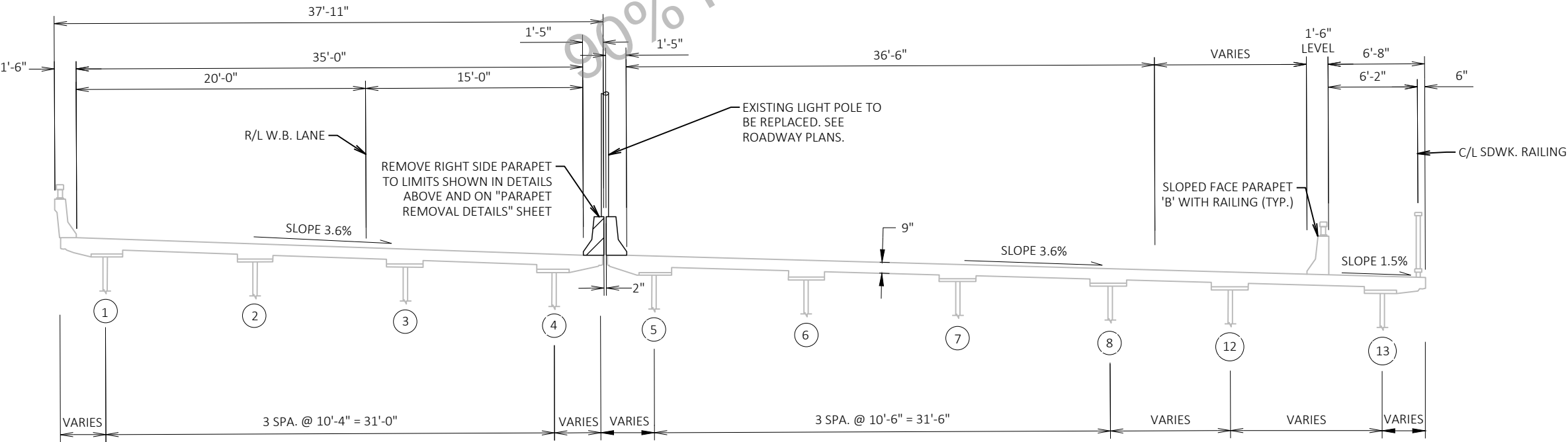
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 4			SHEET 8



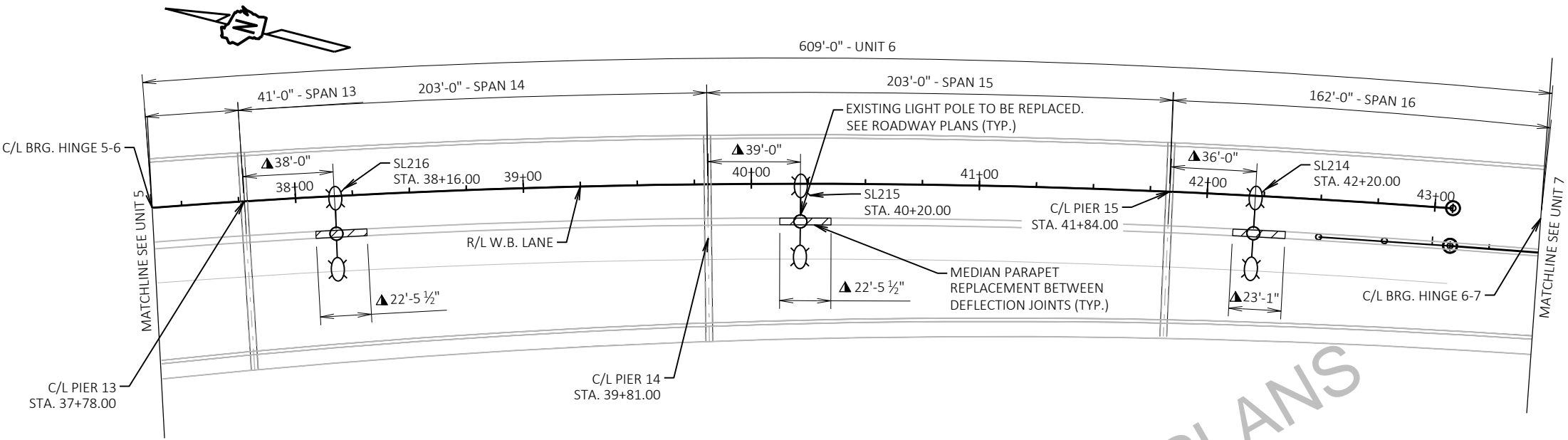
PLAN - UNIT 5

▲ MEASURED ALONG BASE LINE WEST BOUND LANE ACCORDING TO AS BUILTS. DIMENSIONS IN FIELD MAY VARY.



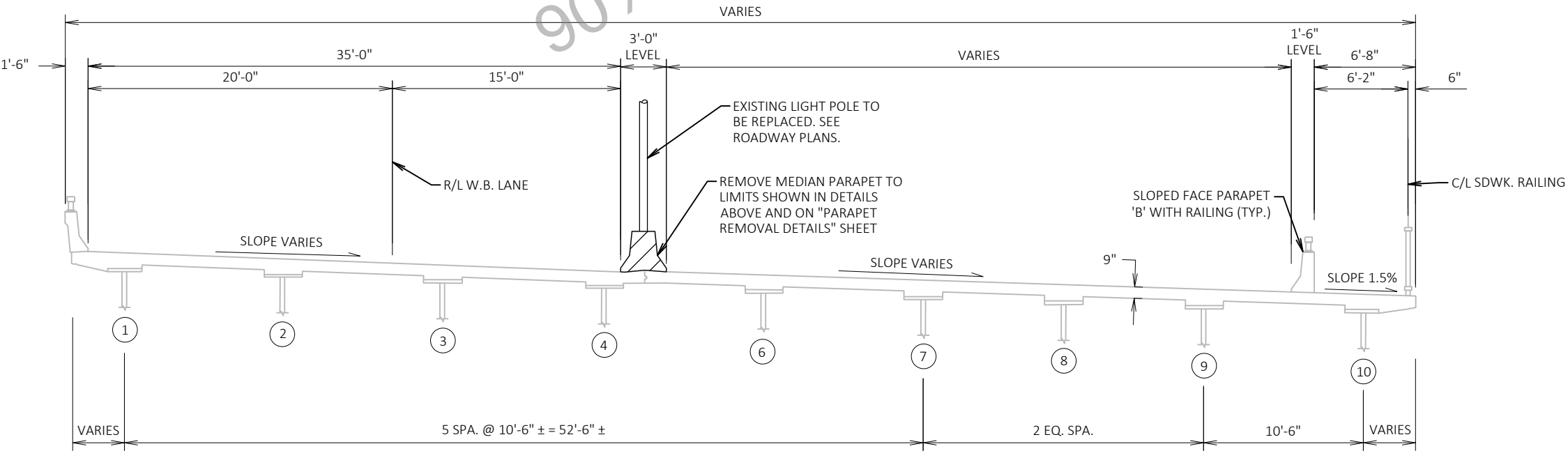
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
TYPICAL SECTION UNIT 5			SHEET 9



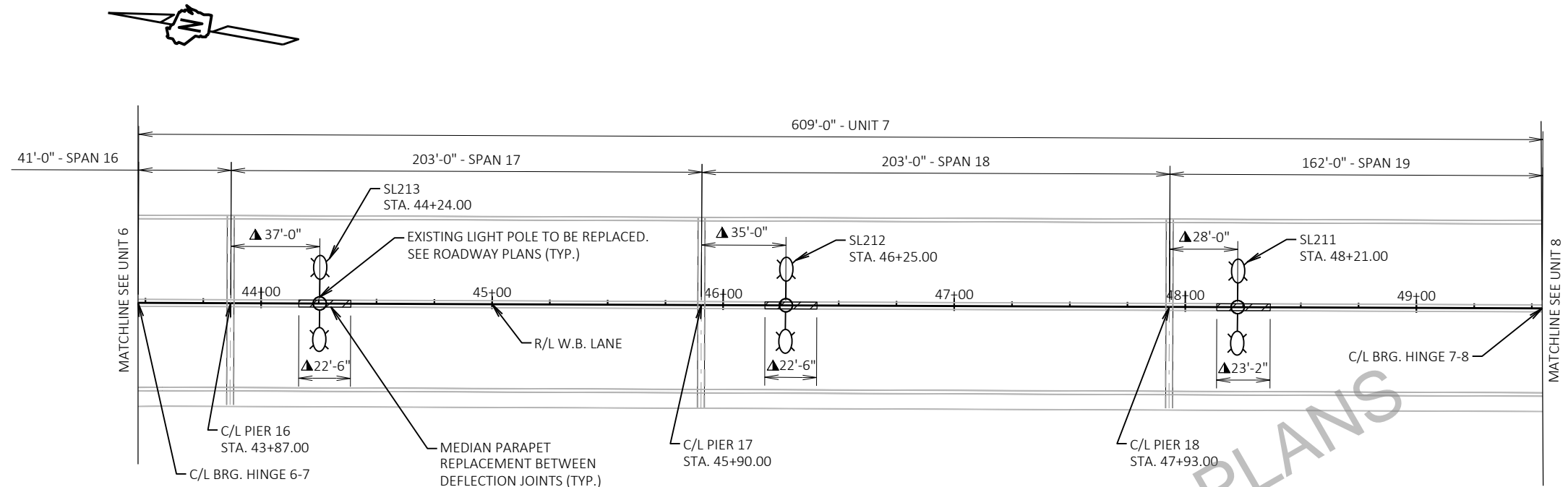
PLAN - UNIT 6

▲ MEASURED ALONG BASE LINE WEST
BOUND LANE & C/L OF MEDIAN
ACCORDING TO AS BUILTS. DIMENSIONS
IN FIELD MAY VARY.



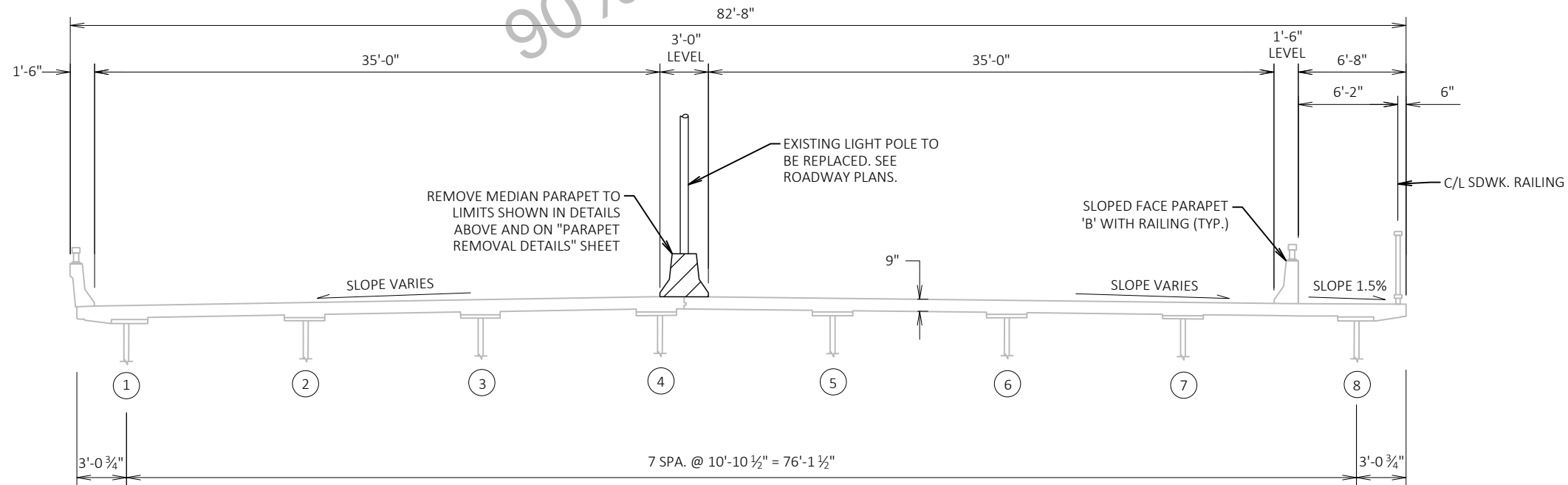
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 6			SHEET 10



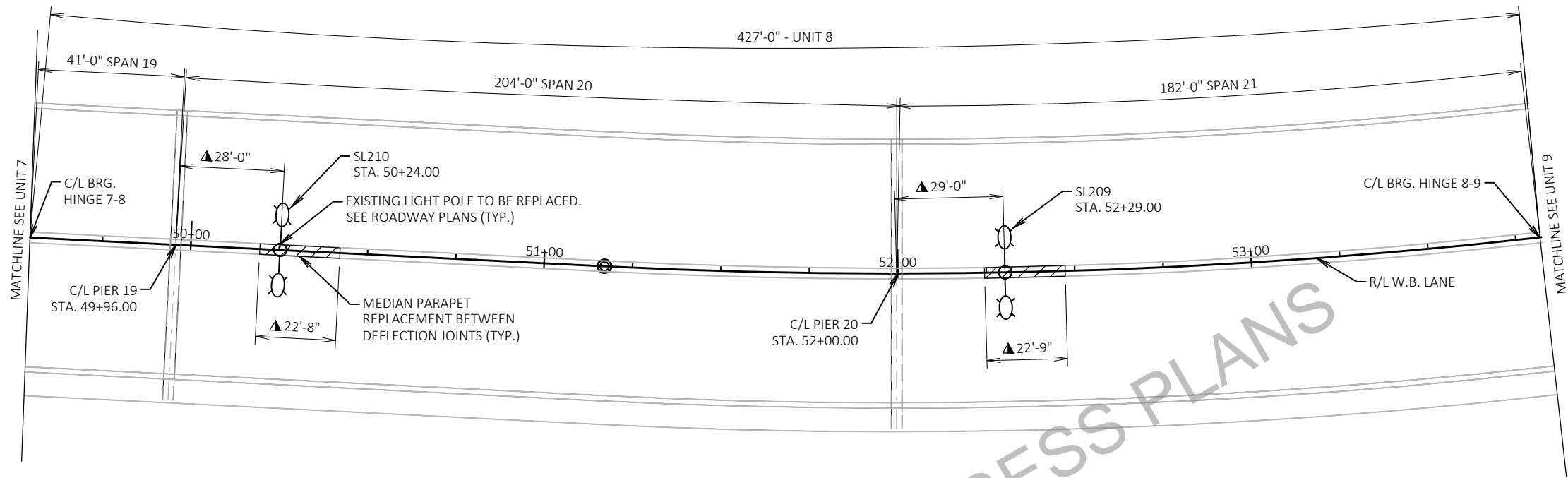
PLAN - UNIT 7

▲ MEASURED ALONG C/L OF MEDIAN
ACCORDING TO AS BUILTS. DIMENSIONS
IN FIELD MAY VARY.



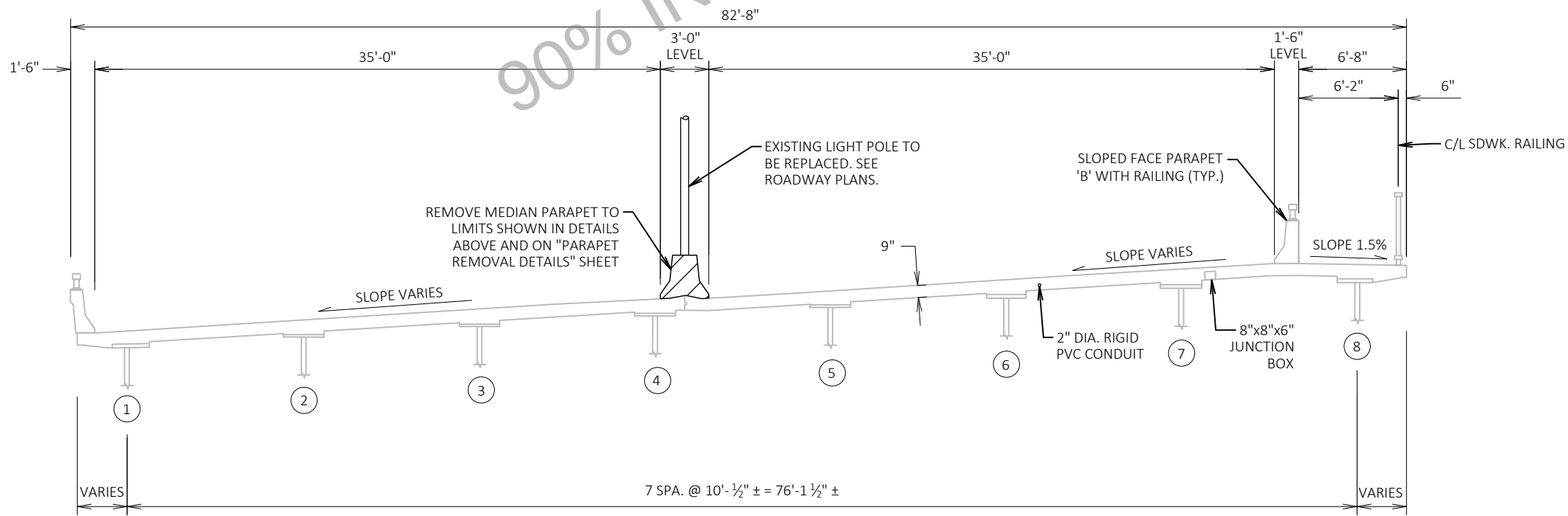
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 7			SHEET 11



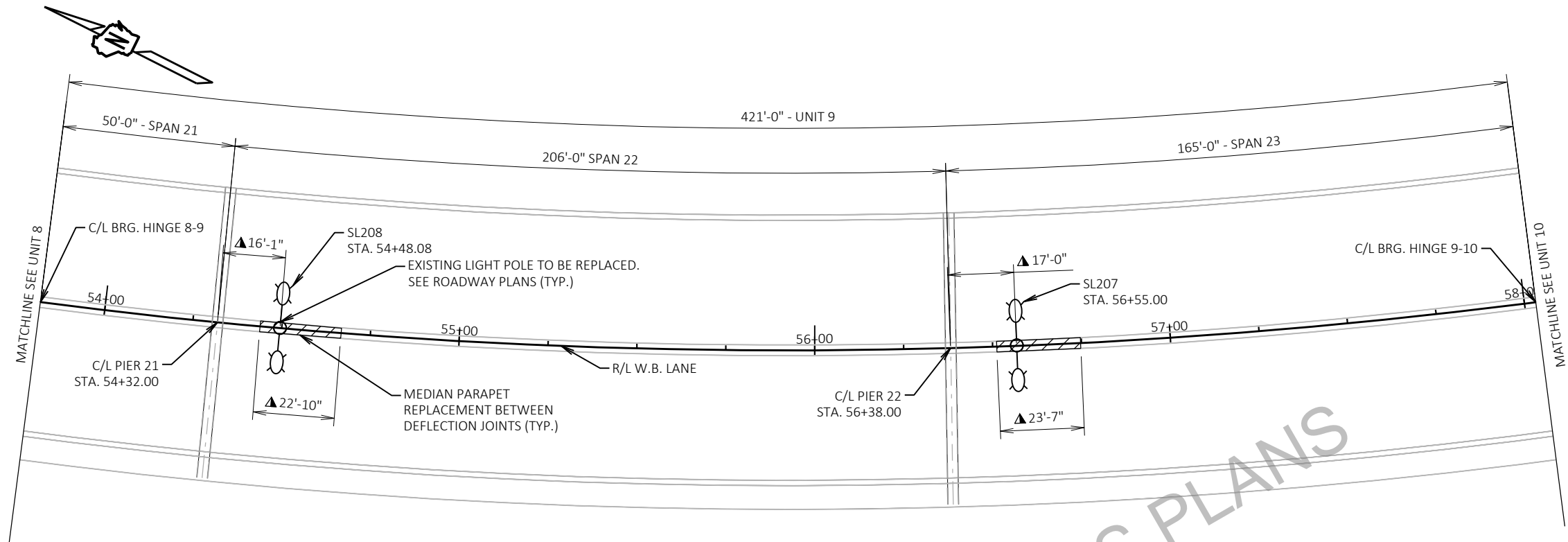
PLAN - UNIT 8

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IN FIELD MAY VARY.



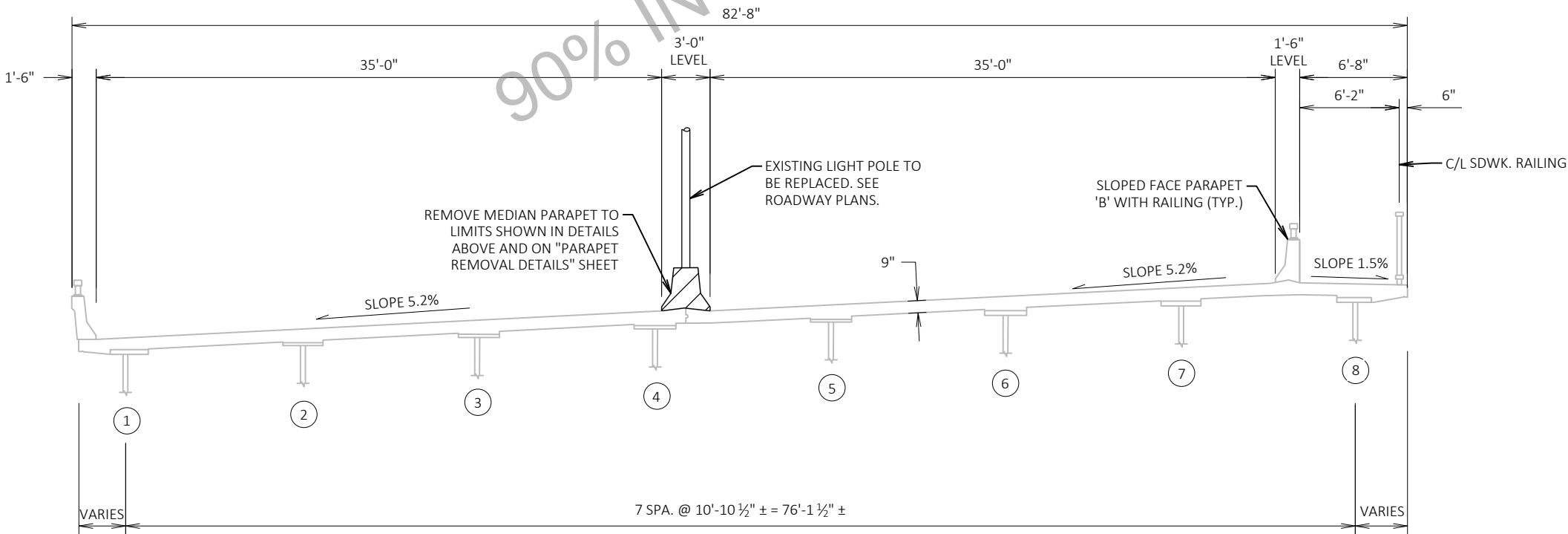
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
TYPICAL SECTION UNIT 8			SHEET 12



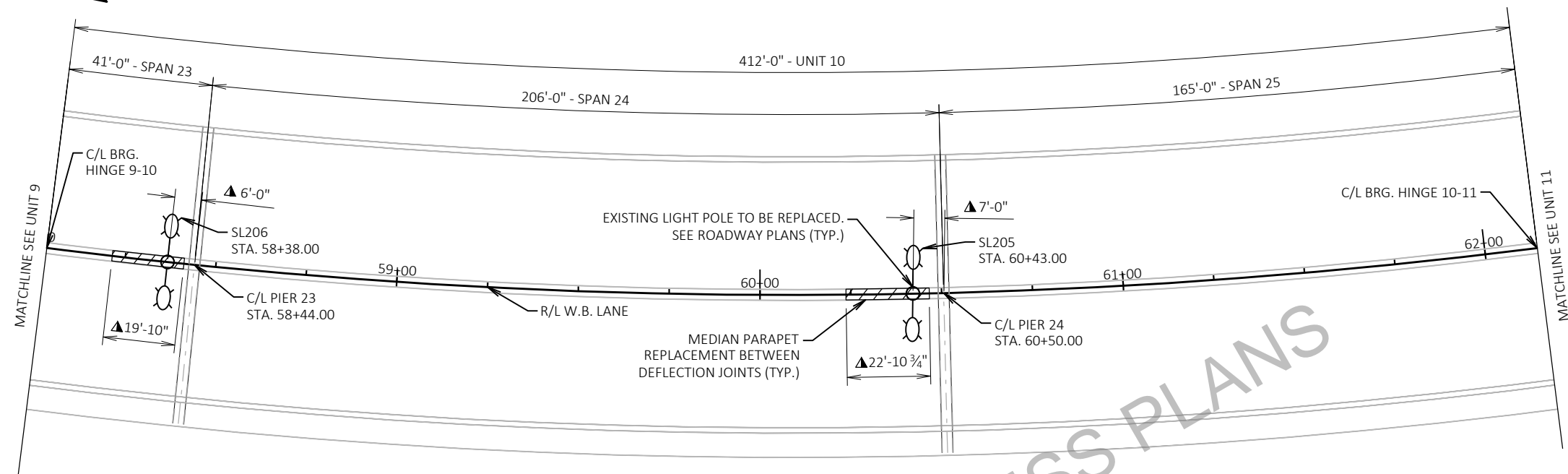
PLAN - UNIT 9

▲ MEASURED ALONG C/L OF MEDIAN
ACCORDING TO AS BUILTS. DIMENSIONS
IN FIELD MAY VARY.



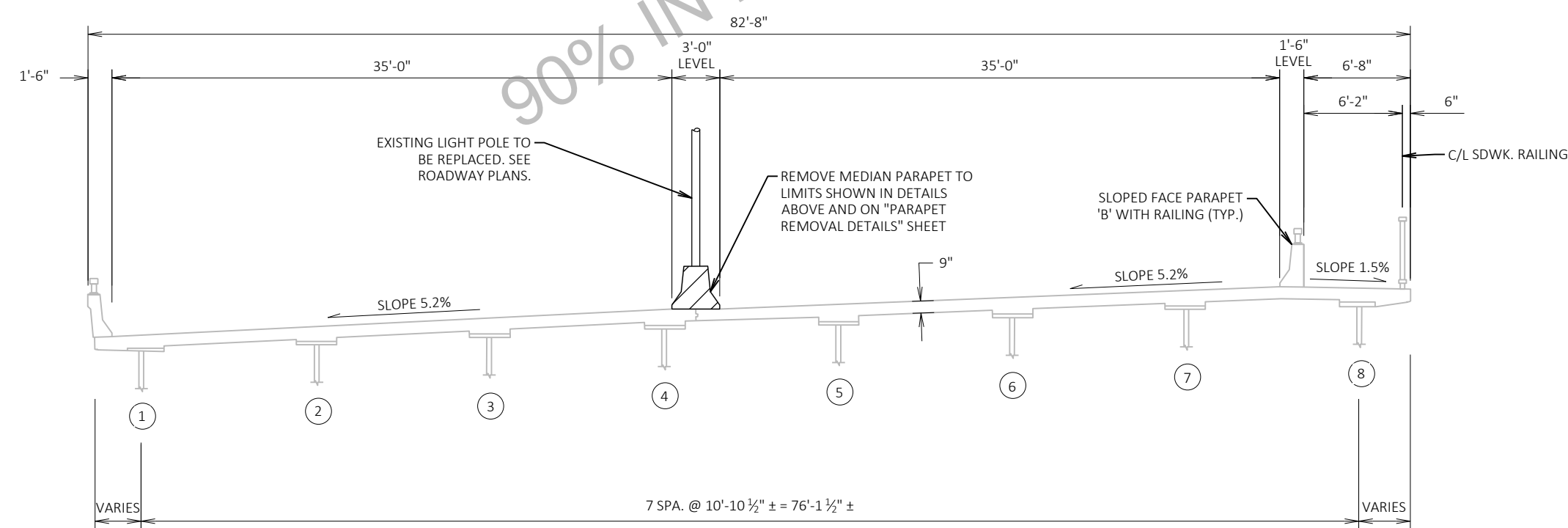
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 9			SHEET 13



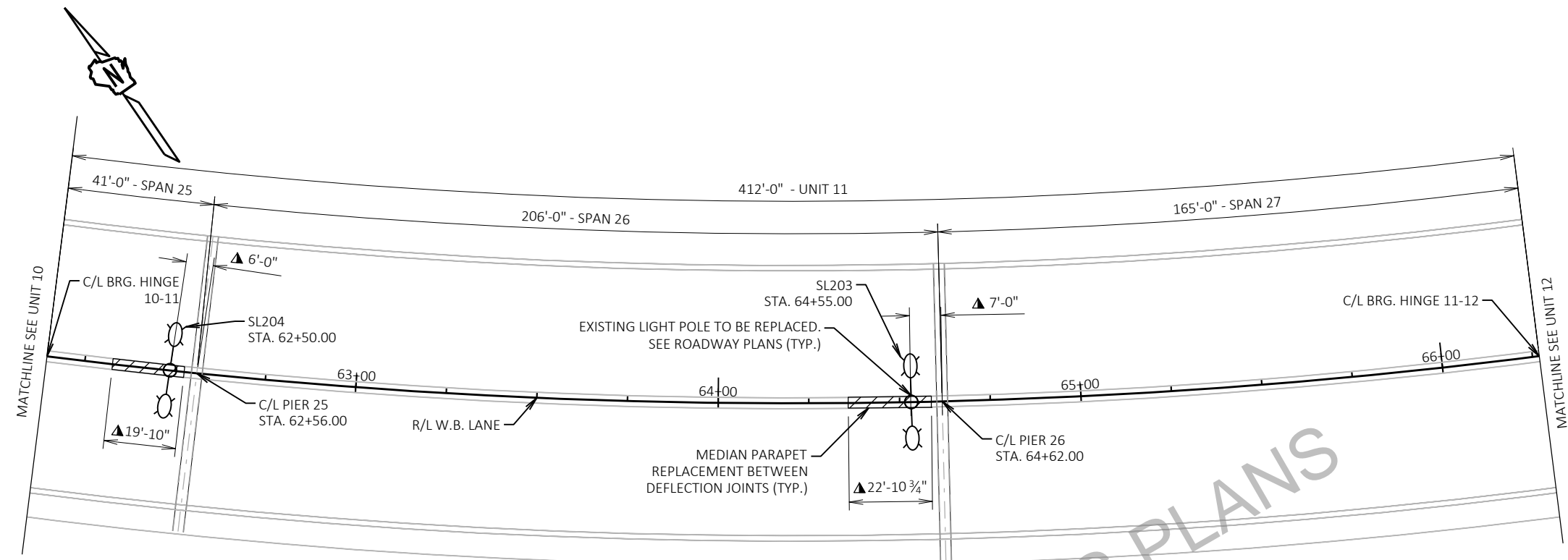
PLAN - UNIT 10

▲ MEASURED ALONG C/L OF MEDIAN
ACCORDING TO AS BUILT. DIMENSIONS
IN FIELD MAY VARY.

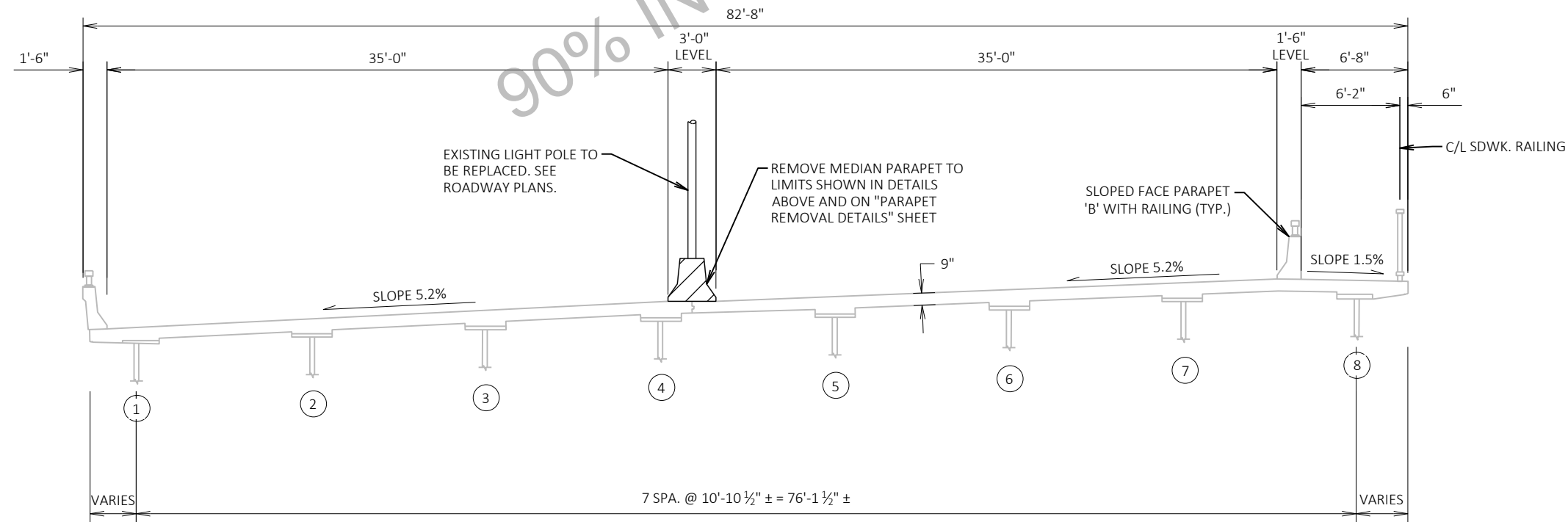


TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
		KLK	
TYPICAL SECTION UNIT 10			SHEET 14

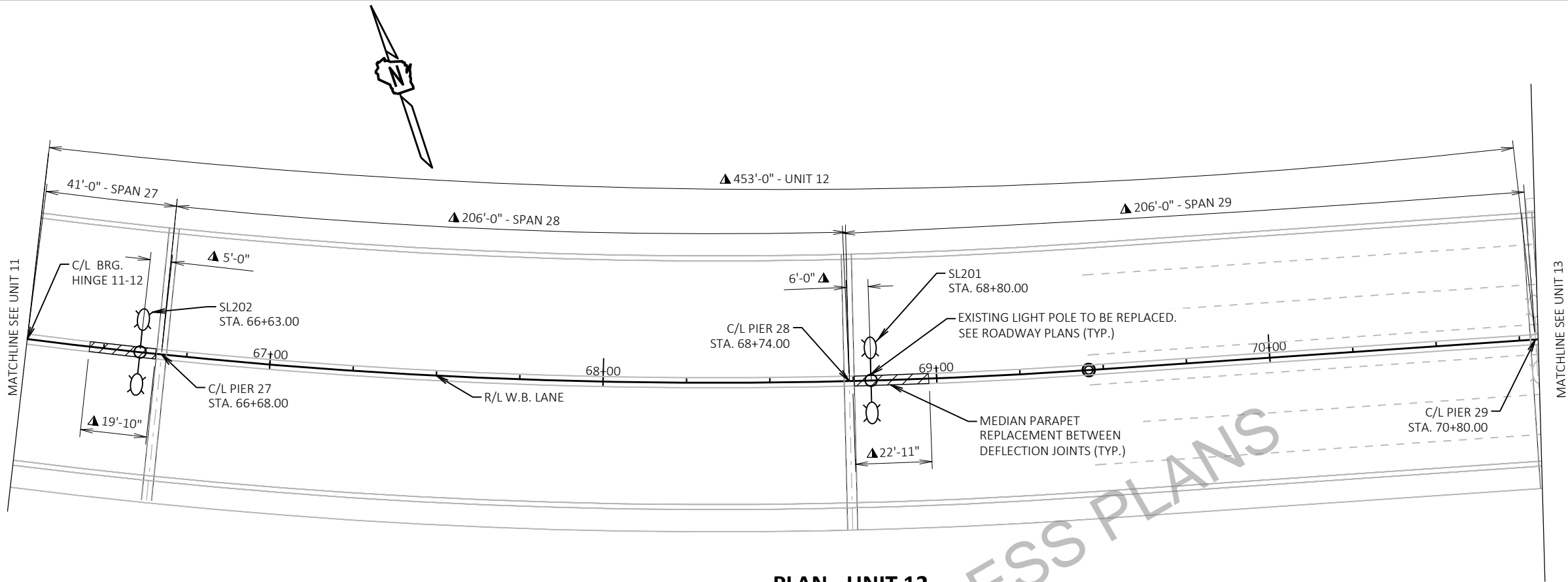


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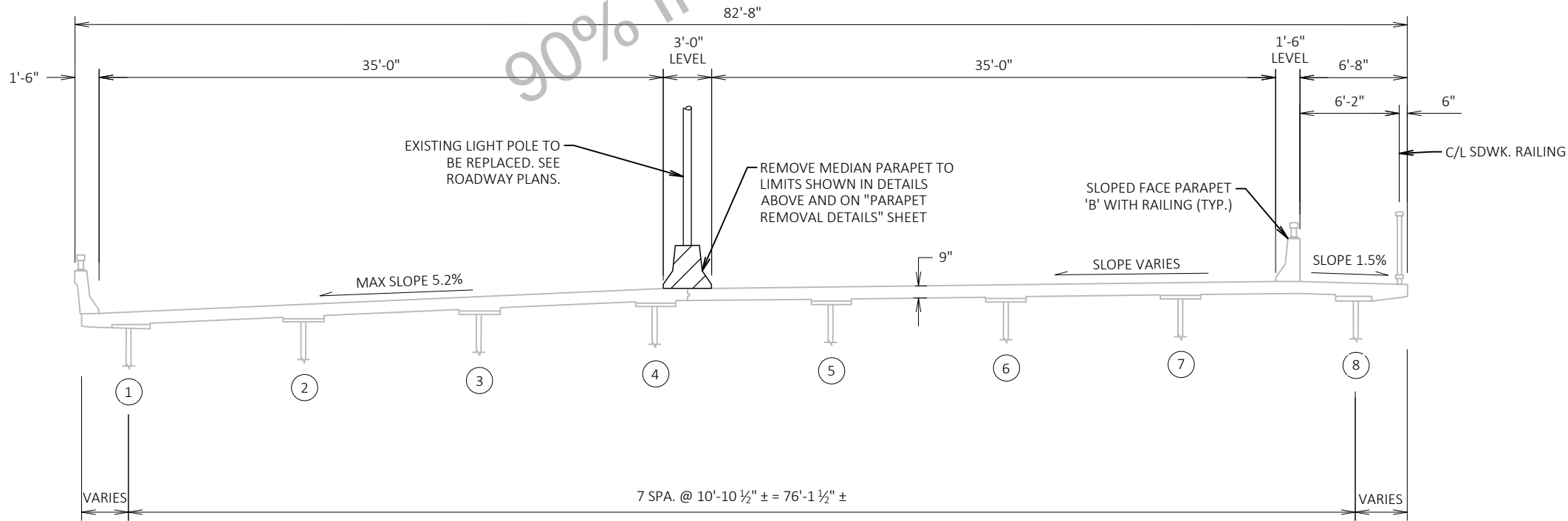
TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 11			SHEET 15



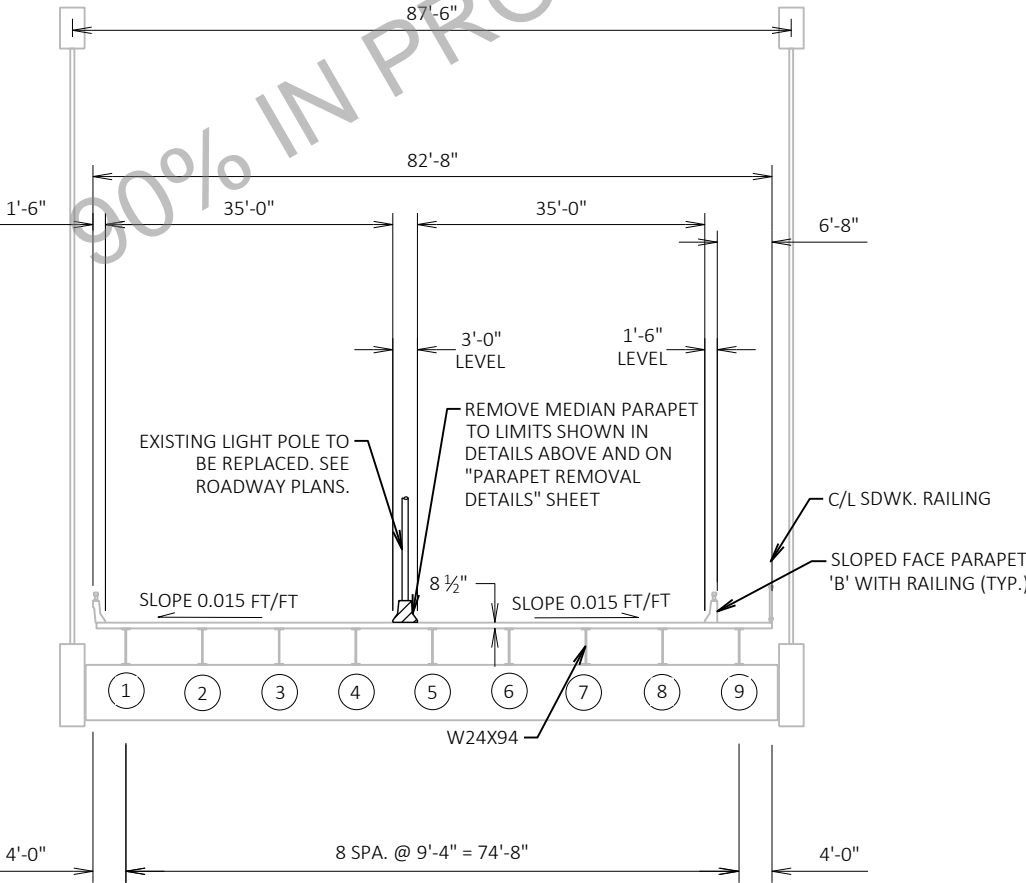
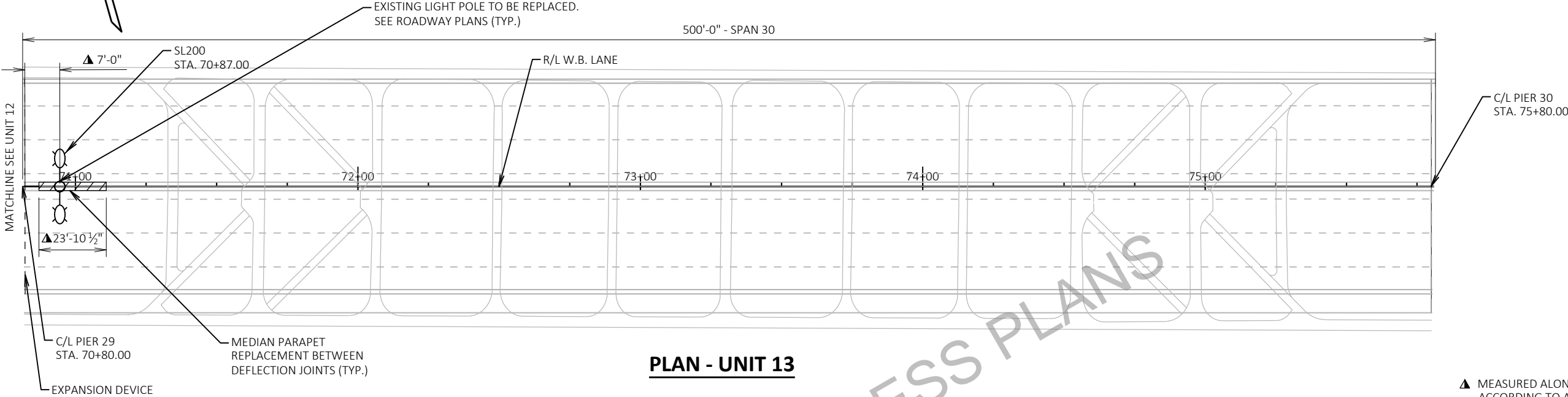
PLAN - UNIT 12

▲ MEASURED ALONG C/L OF MEDIAN
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IN FIELD MAY VARY.



TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
TYPICAL SECTION UNIT 12			SHEET 16



TYPICAL SECTION
LOOKING UPSTATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
TYPICAL SECTION UNIT 13			SHEET 17

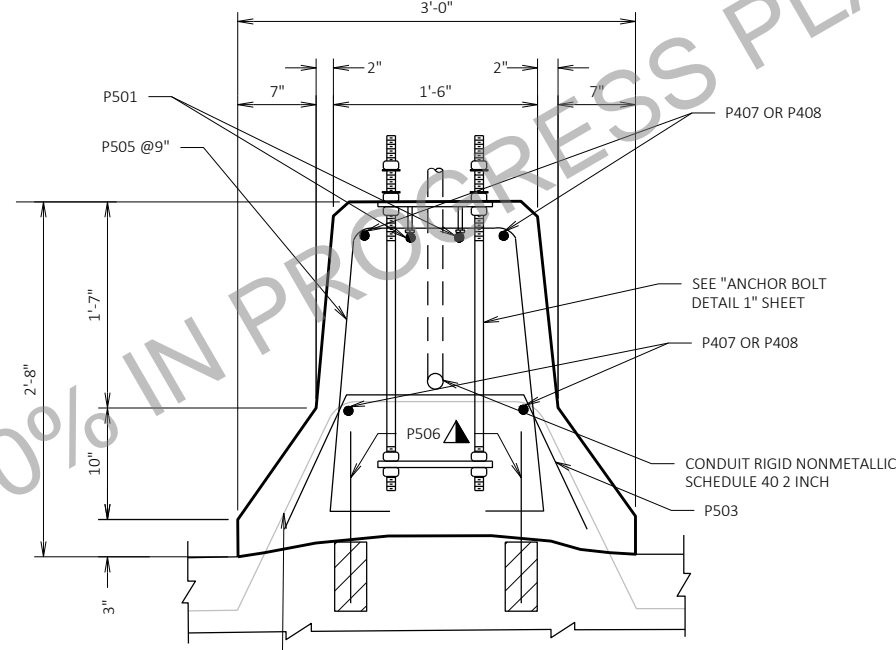
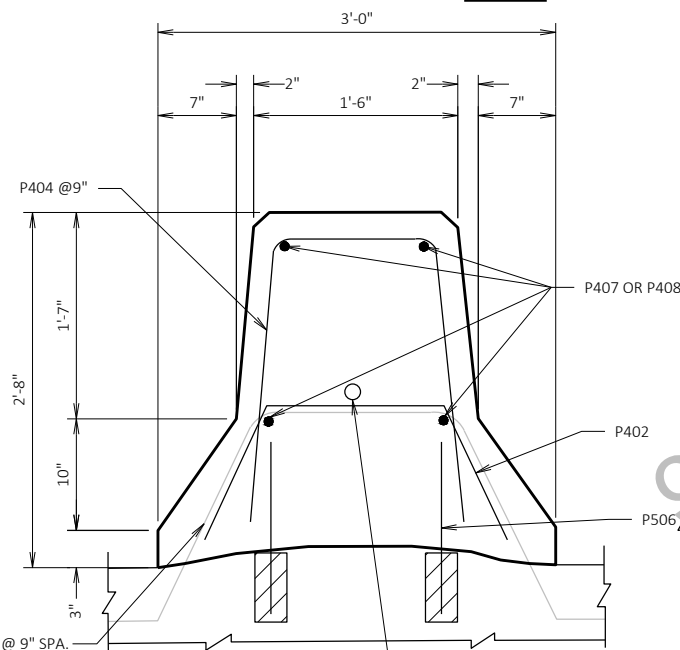
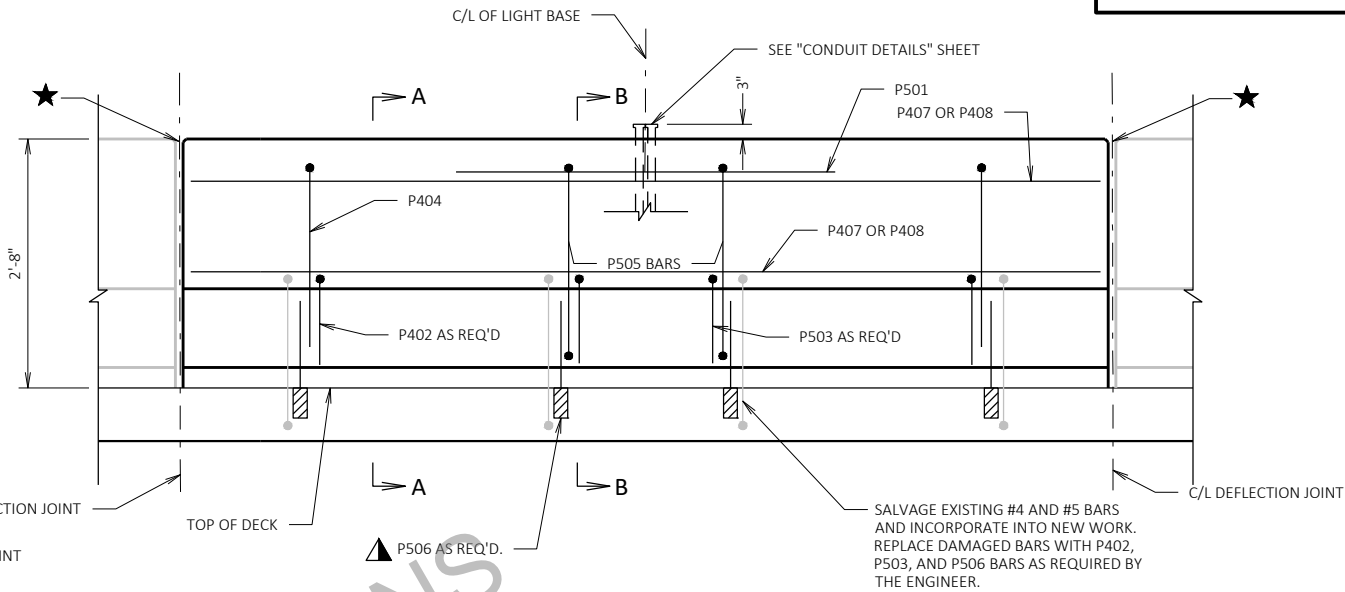
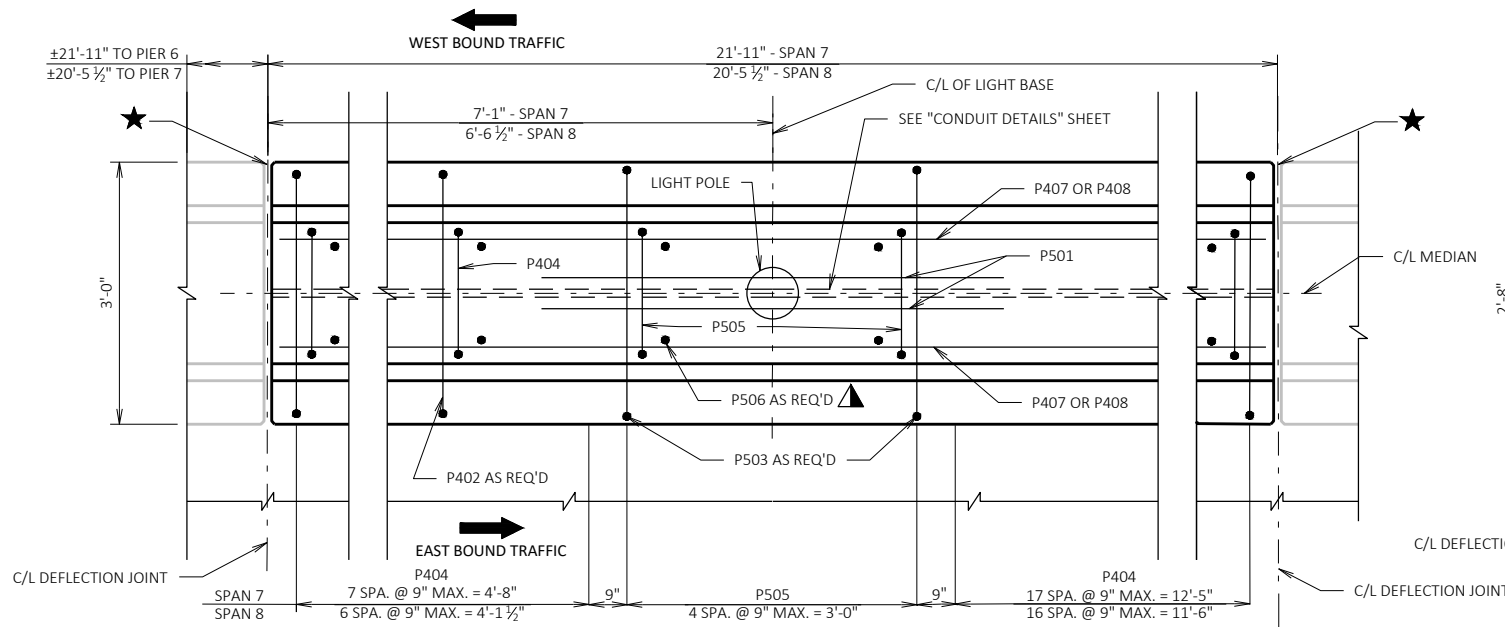
(UNITS 4 & 5)

(UNITS 3, 6, 7, 8, 9, 10, 11, 12, 13)

SECTION A-A

SECTION C-C

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
PARAPET REMOVAL DETAILS		SHEET 18	



LEGEND

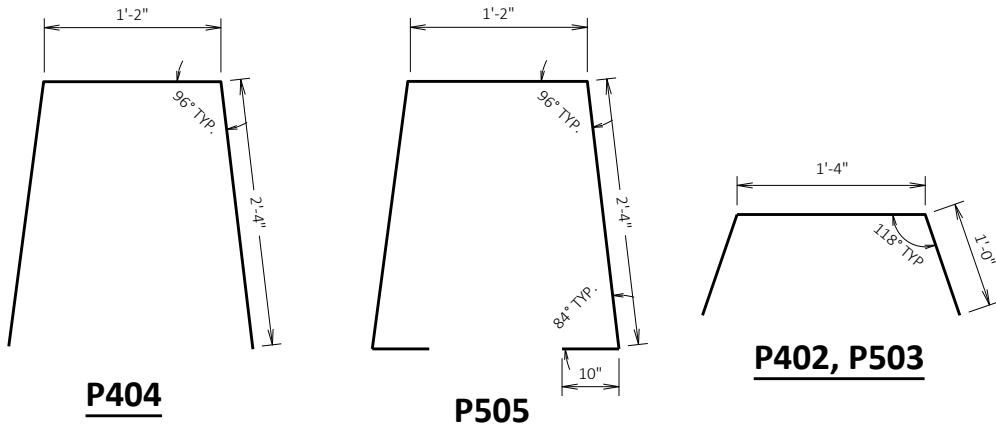
- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 3 BILL OF BARS

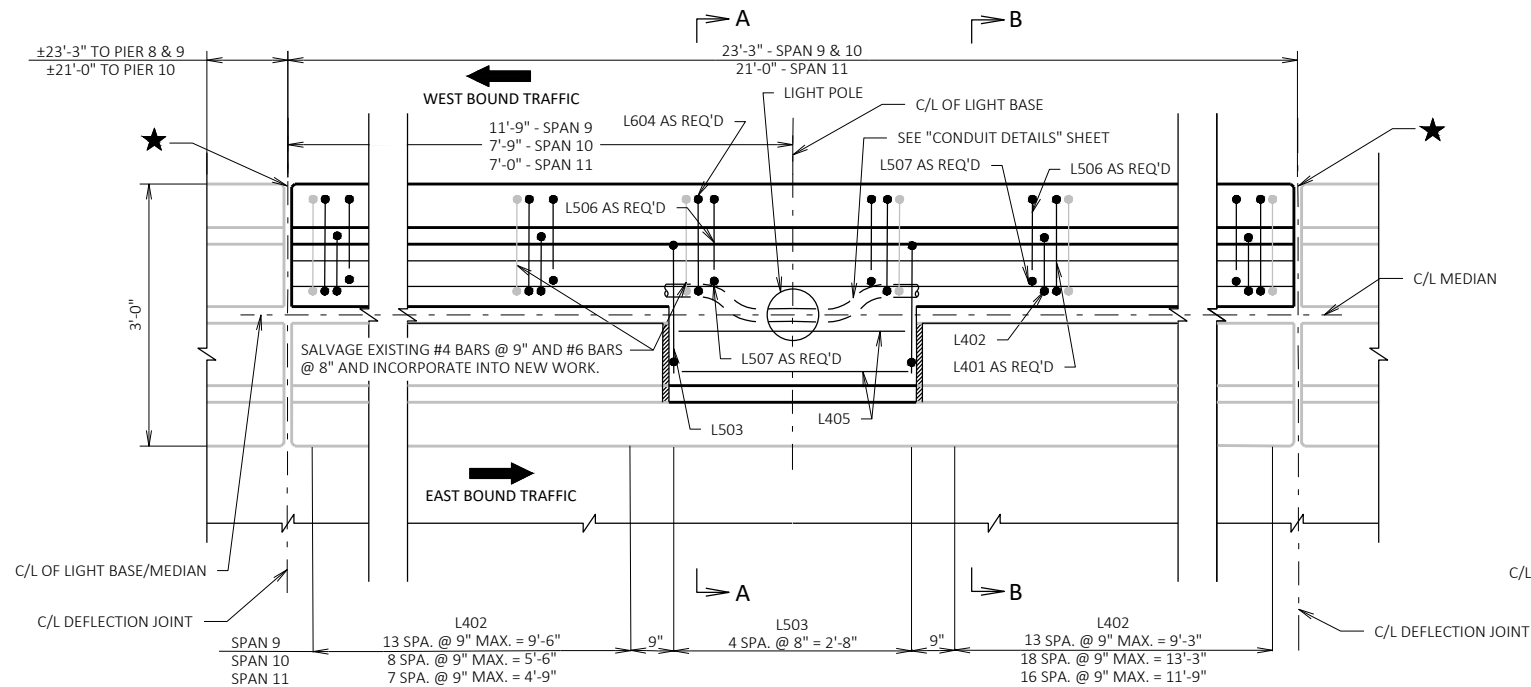
COATED TOTAL = 550 LBS

BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	4	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	25	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	5	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	50	5'-8"	X	X	PARAPET VERT.
P505	10	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	60	1'-4"	X		PARAPET VERT. - ANCHORS
P407	4	21'-7"	X		PARAPET HORIZ. - SPAN 7
P408	4	20'-1"	X		PARAPET HORIZ. - SPAN 8

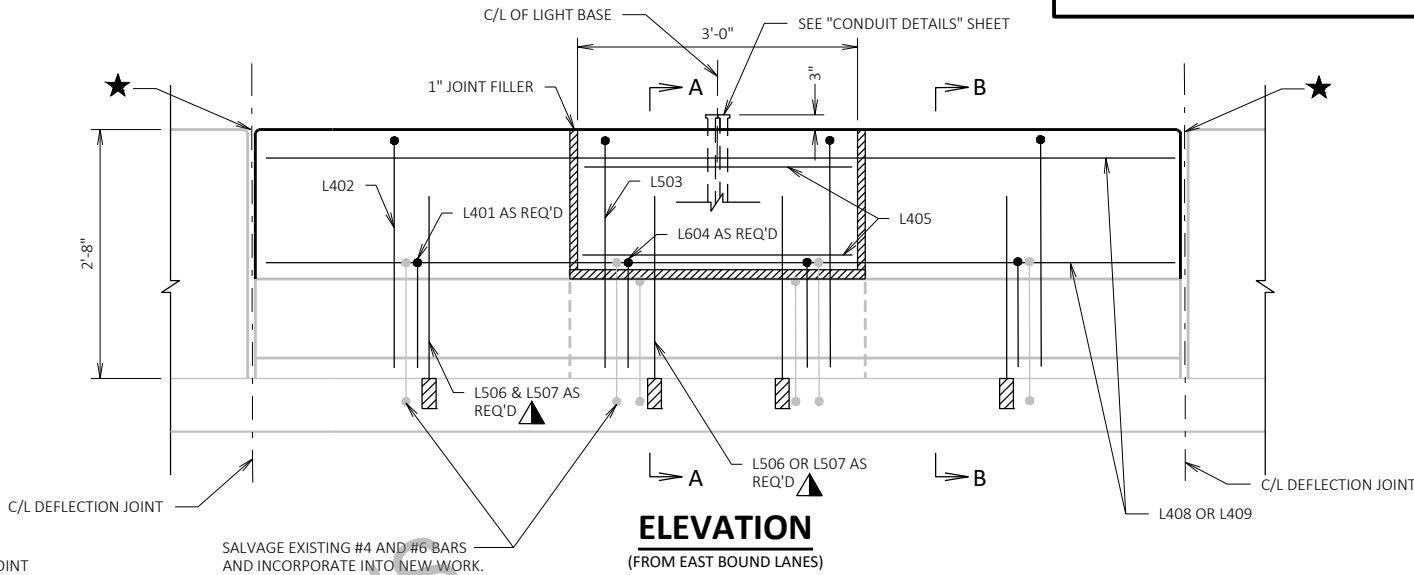
NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS



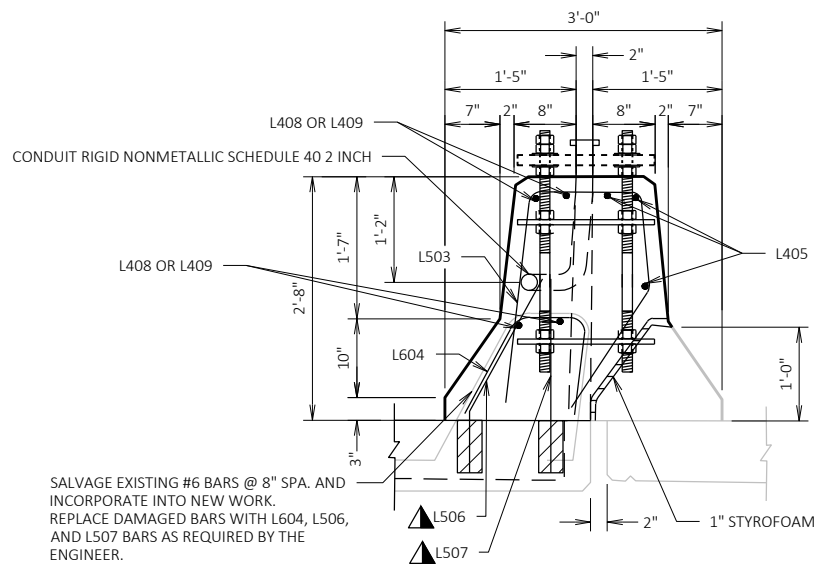
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 3		SHEET 19	



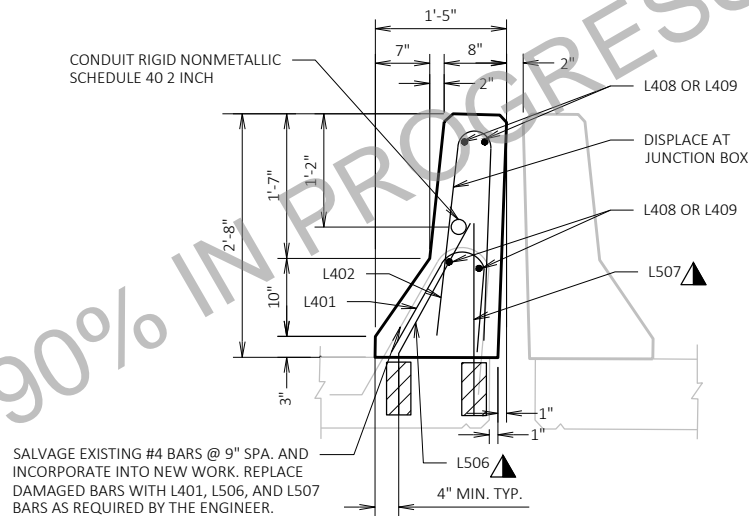
PLAN



ELEVATION
(FROM EAST BOUND LANES)



SECTION A-A



SECTION B-B

LEGEND

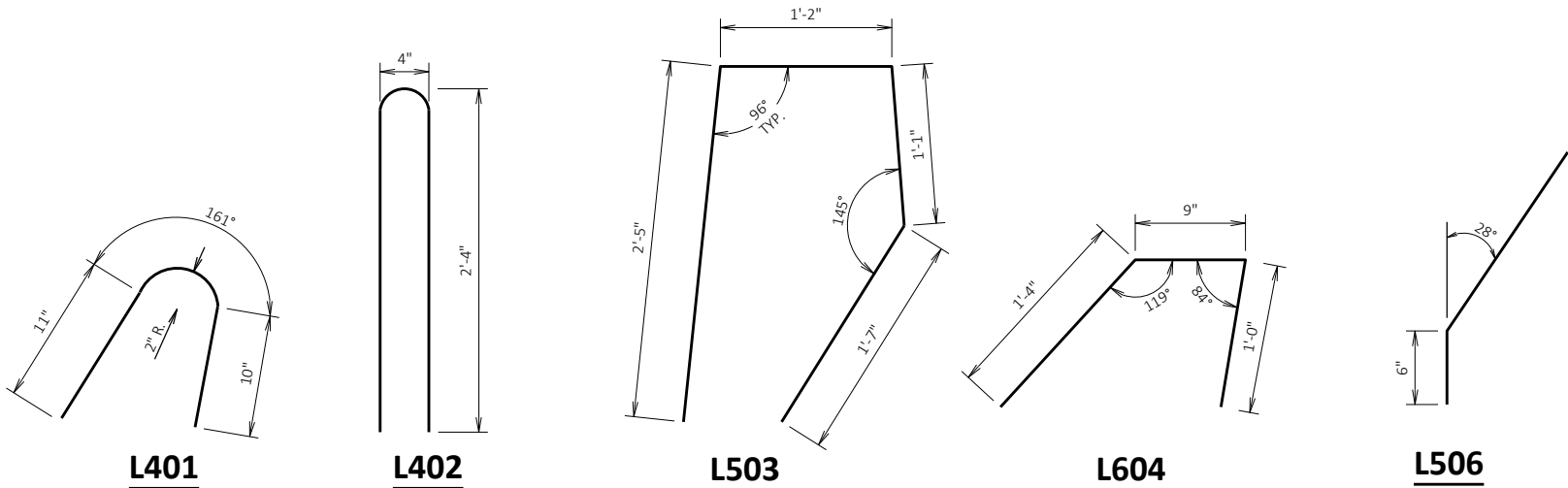
- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 4 BILL OF BARS

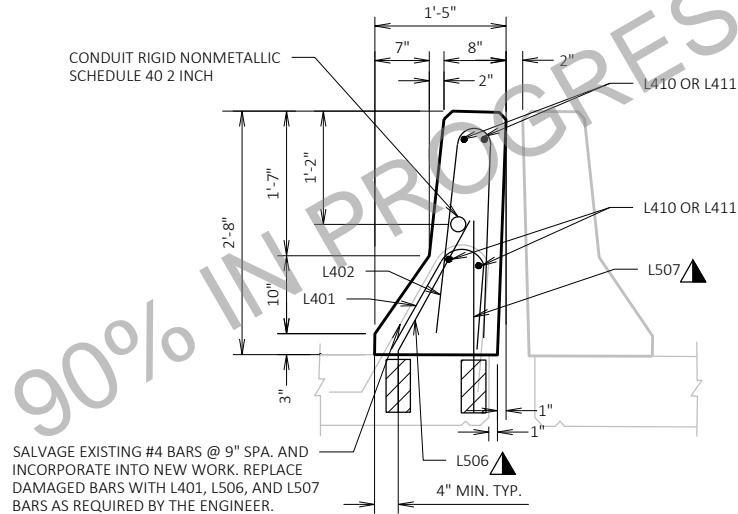
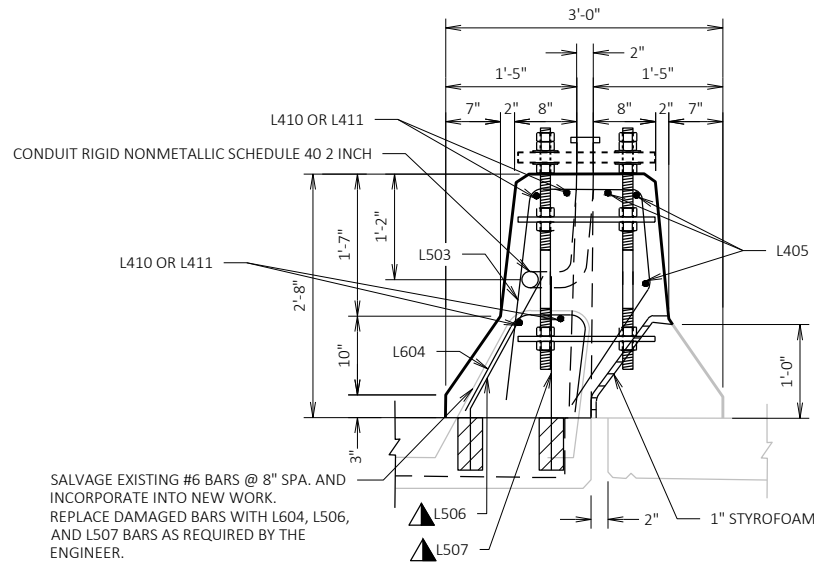
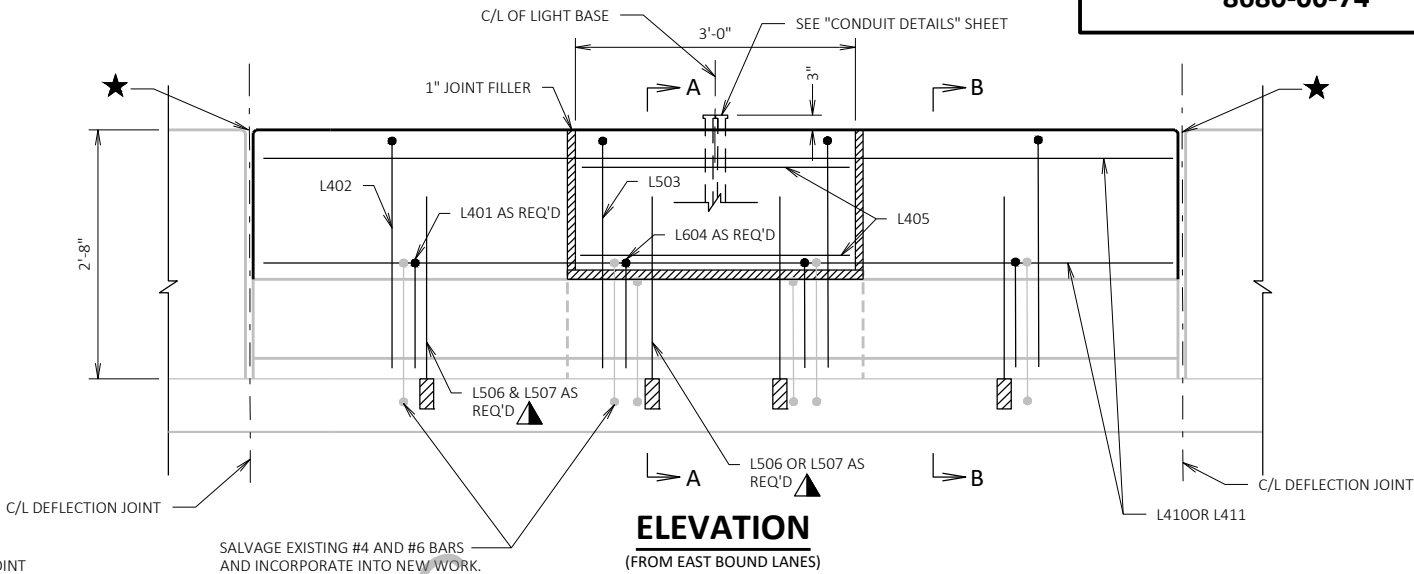
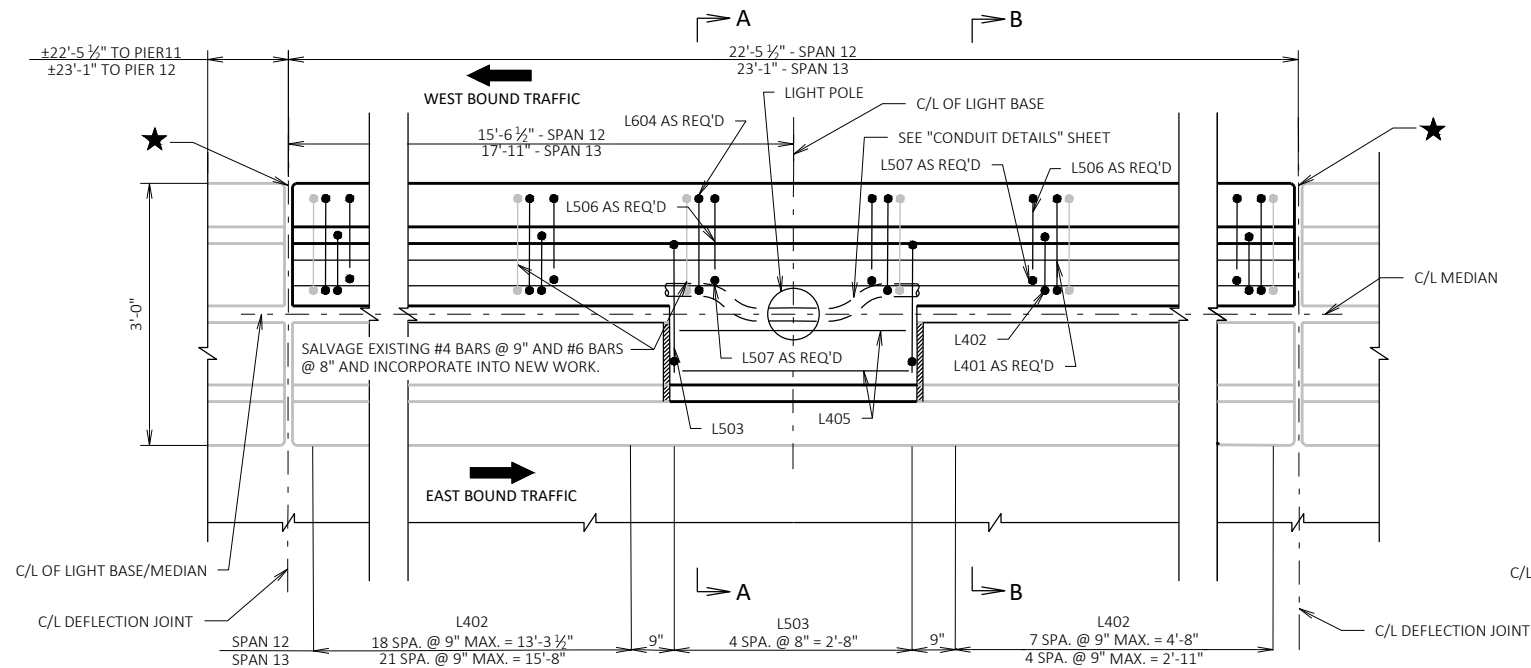
COATED TOTAL = 830 LBS

BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
L401	40	2'-0"	X	X	PARAPET VERT. - AS REQ'D
L402	81	4'-10"	X	X	PARAPET VERT.
L503	15	6'-0"	X	X	PARAPET VERT. - LIGHT BASE
L604	8	2'-10"	X	X	PARAPET VERT. - LIGHT BASE - AS REQ'D
L405	9	2'-8"	X		PARAPET HORIZ. - LIGHT BASE
L506	48	2'-5"	X	X	PARAPET VERT. - ANCHORS
L507	48	1'-4"	X		PARAPET VERT. - ANCHORS
L408	8	22'-11"	X		PARAPET HORIZ. - SPAN 9 & 10
L409	4	20'-8"	X		PARAPET HORIZ. - SPAN 11

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
PARAPET DETAILS UNIT 4		SHEET 20	



LEGEND

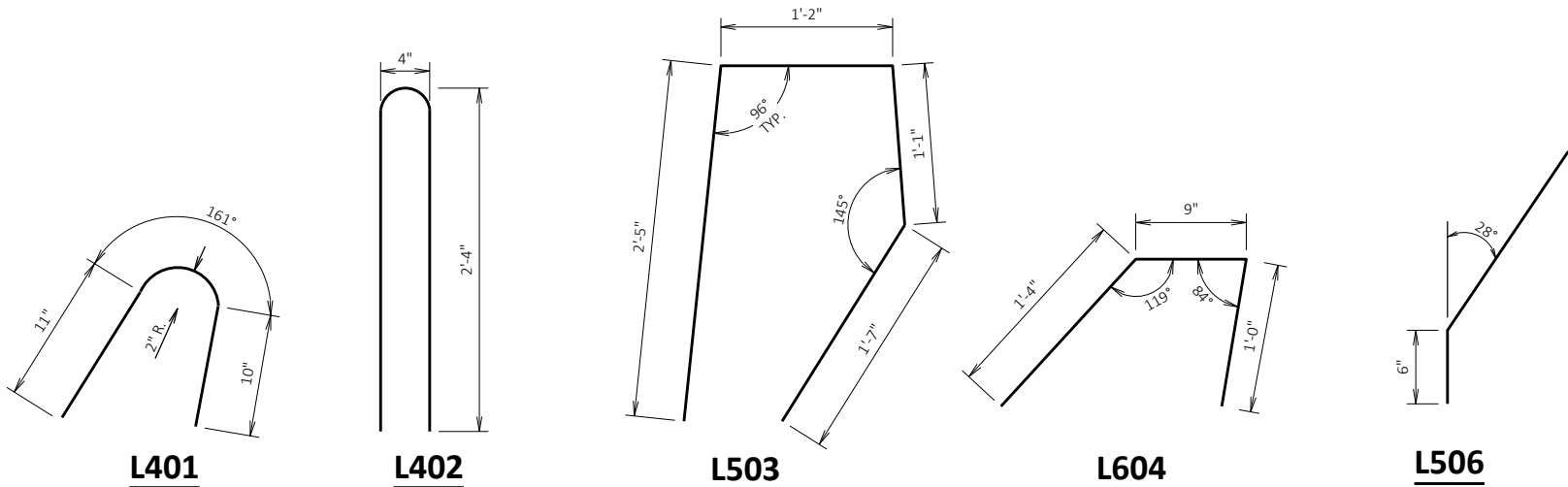
- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 5 BILL OF BARS

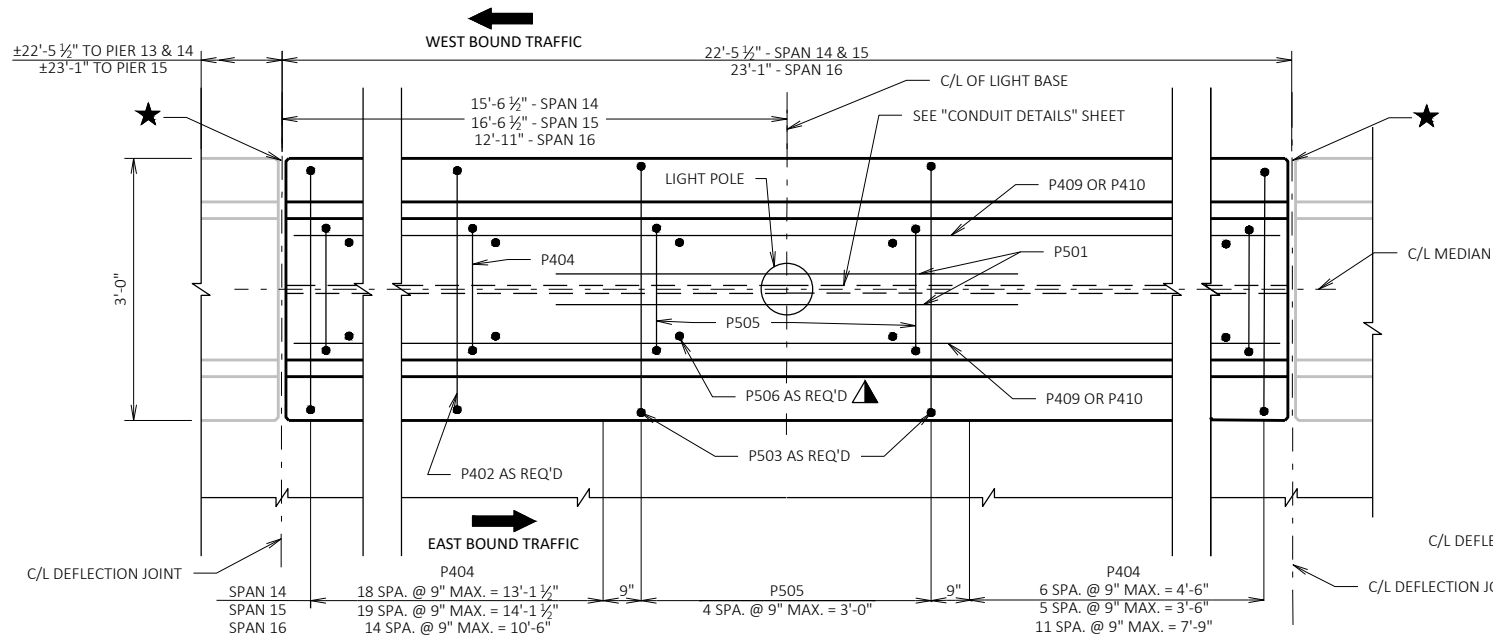
COATED TOTAL = 550 LBS

BAR MARK	NO	LENGTH	COAT	BENT	LOCATION
L401	27	2'-0"	X	X	PARAPET VERT. - AS REQ'D
L402	54	4'-10"	X	X	PARAPET VERT.
L503	10	6'-0"	X	X	PARAPET VERT. - LIGHT BASE
L604	5	2'-10"	X	X	PARAPET VERT. - LIGHT BASE - AS REQ'D
L405	6	2'-8"	X		PARAPET HORIZ. - LIGHT BASE
L506	32	2'-5"	X	X	PARAPET VERT. - ANCHORS
L507	32	1'-4"	X		PARAPET VERT. - ANCHORS
L410	4	22'-1"	X		PARAPET HORIZ. - SPAN 12
L411	4	22'-9"	X		PARAPET HORIZ. - SPAN 13

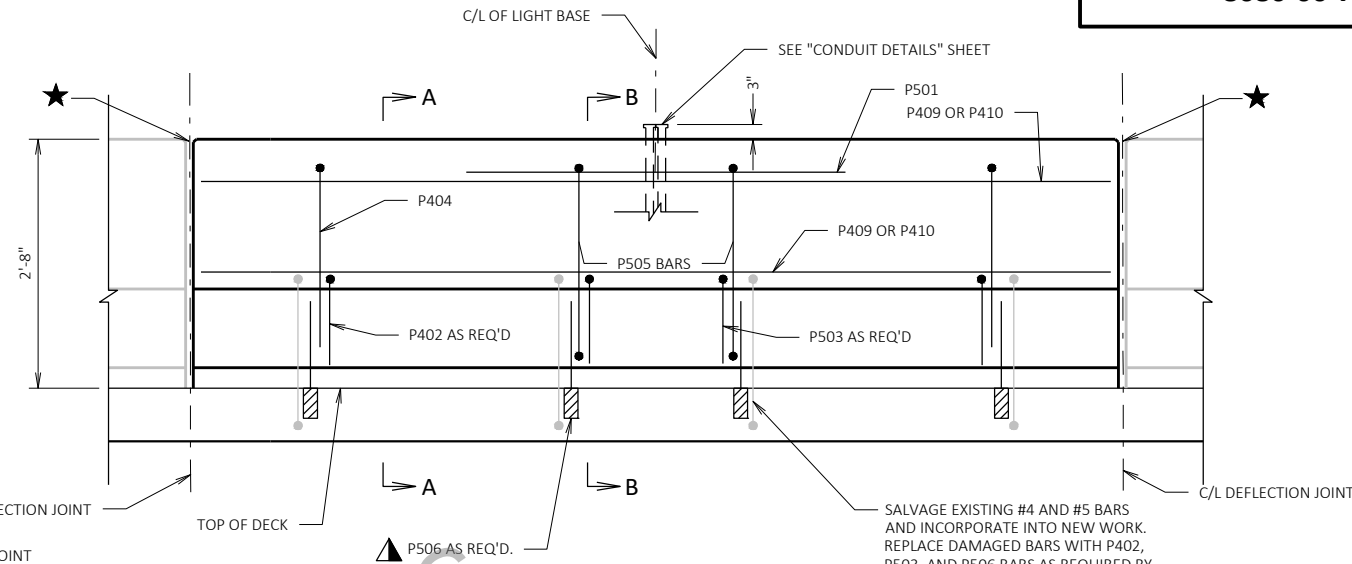
NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS



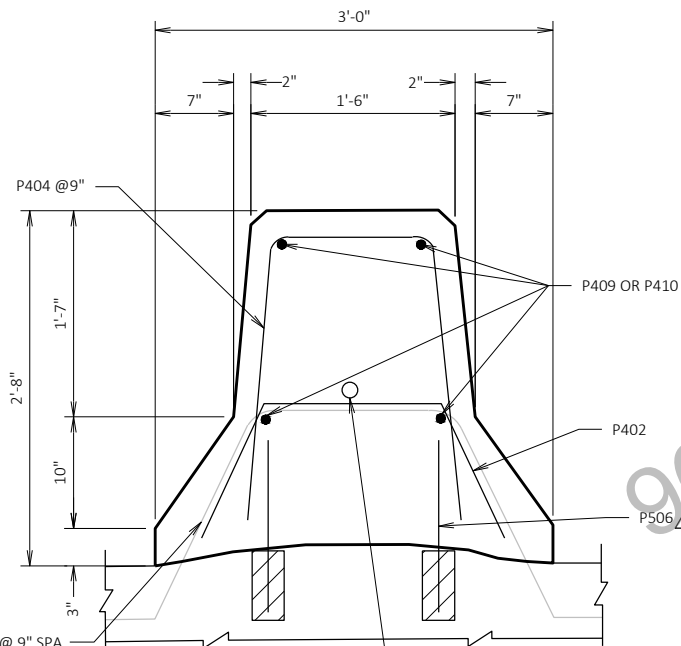
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 5		SHEET 21	



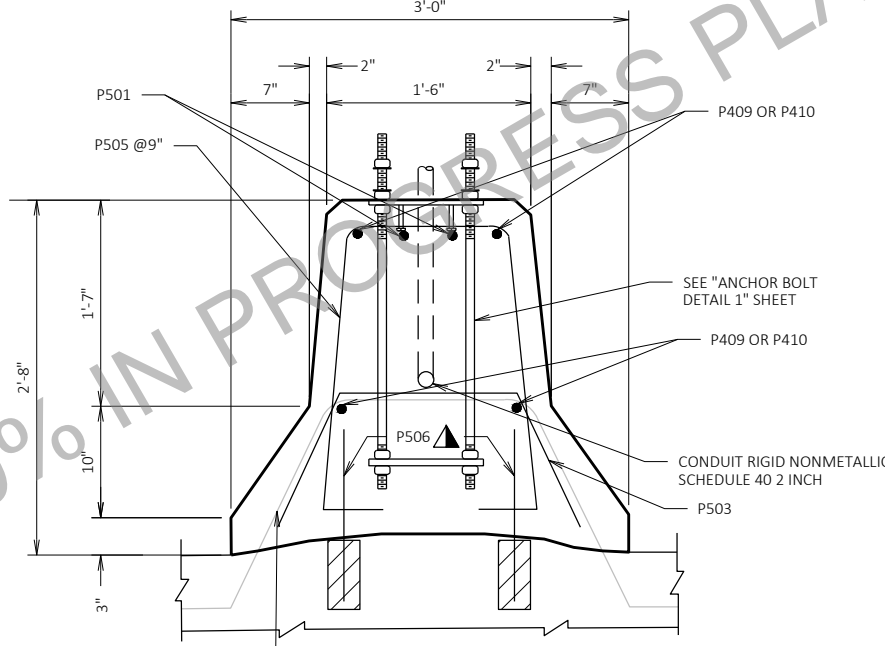
PLAN



ELEVATION



SECTION A-A



SECTION B-B

LEGEND

- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 3/8" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 6 BILL OF BARS

COATED TOTAL = 860 LBS

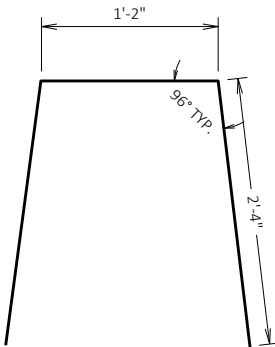
BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	6	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	40	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	8	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	79	5'-8"	X	X	PARAPET VERT.
P505	15	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	94	1'-4"	X		PARAPET VERT. - ANCHORS
P409	8	22'-1"	X		PARAPET HORIZ. - SPAN 14 & 15
P410	4	22'-9"	X		PARAPET HORIZ. - SPAN 16

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS

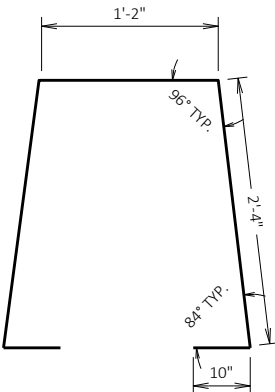
SALVAGE EXISTING #4 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P402 AND P506 BARS AS REQUIRED BY THE ENGINEER.

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH

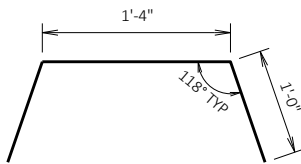
SALVAGE EXISTING #5 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P503 AND P506 BARS AS REQUIRED BY THE ENGINEER.



P404

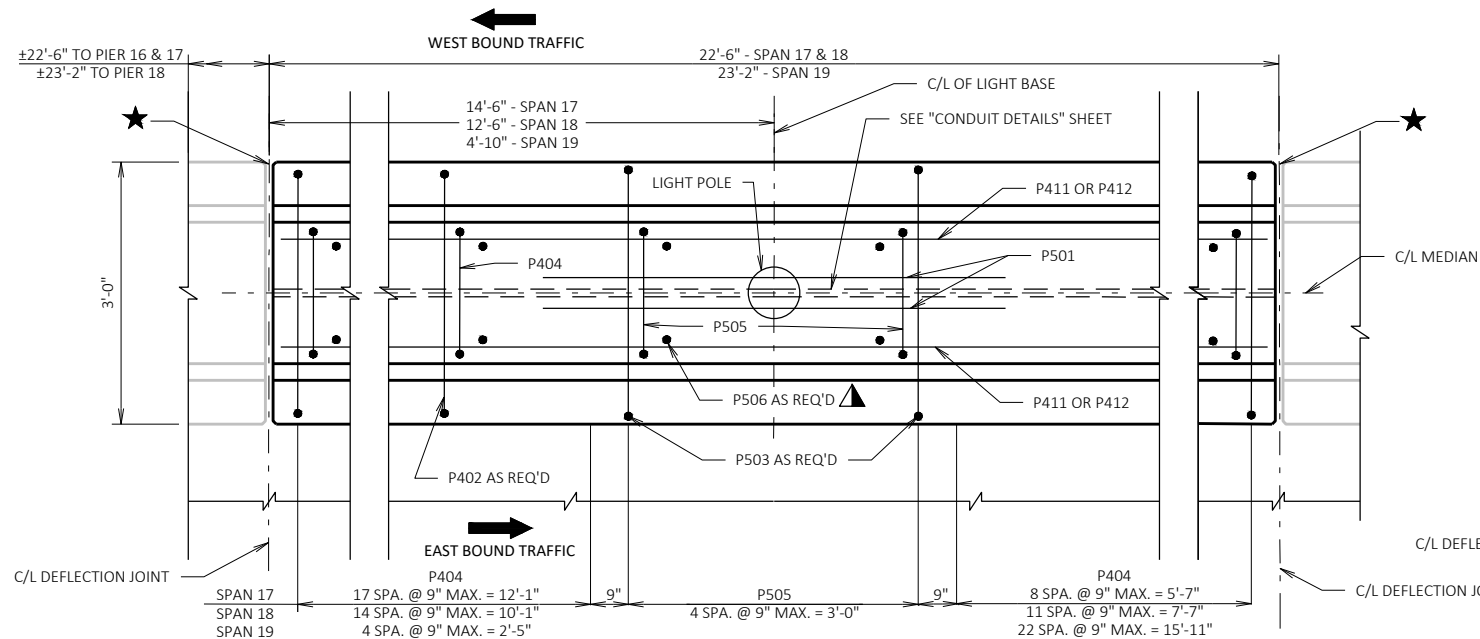


P505

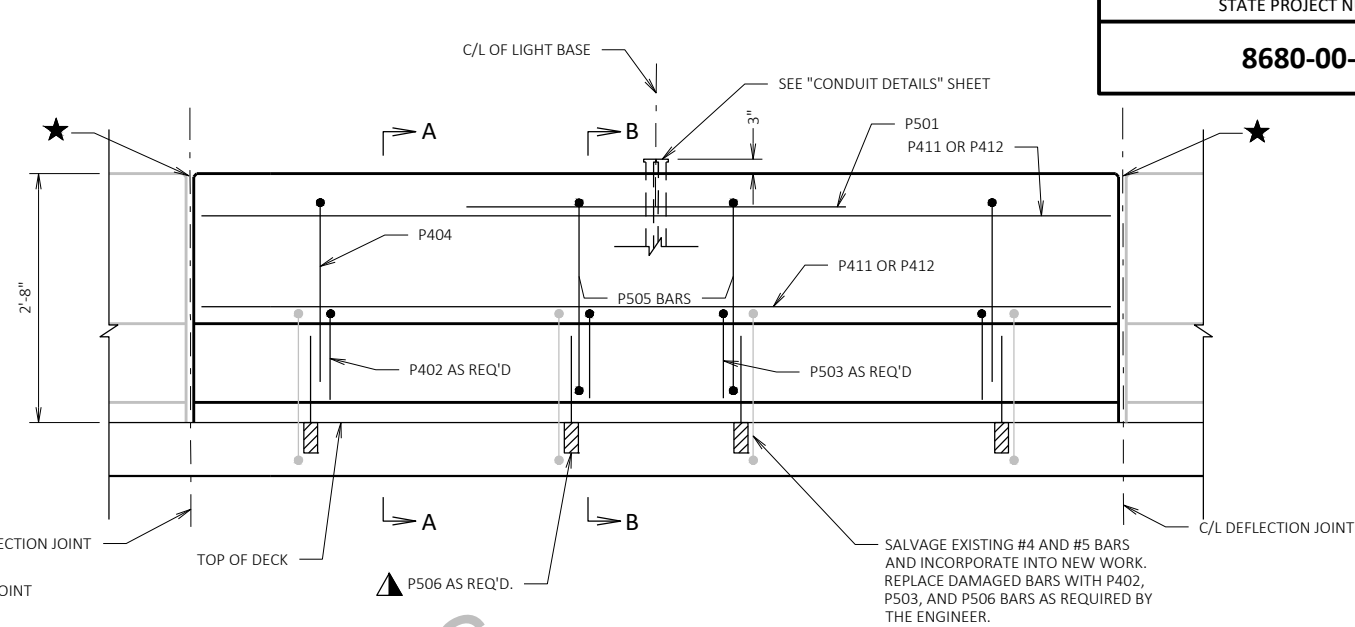


P402, P503

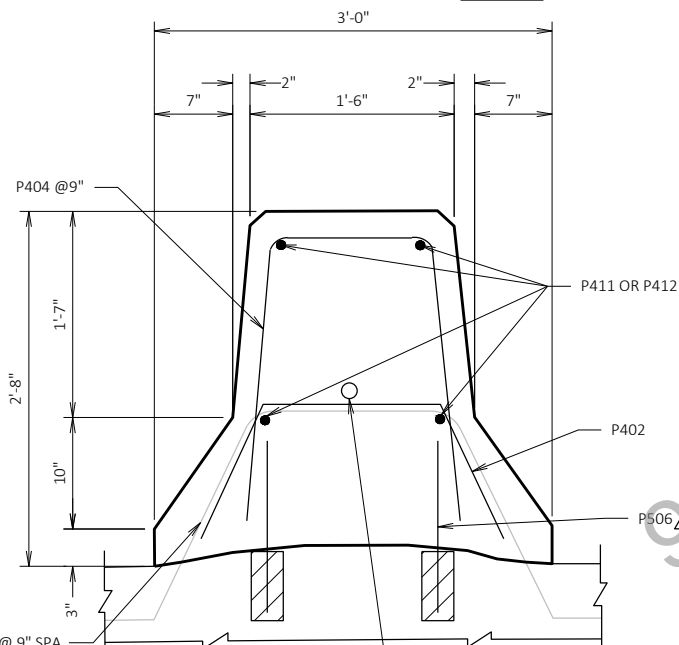
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 6		SHEET 22	



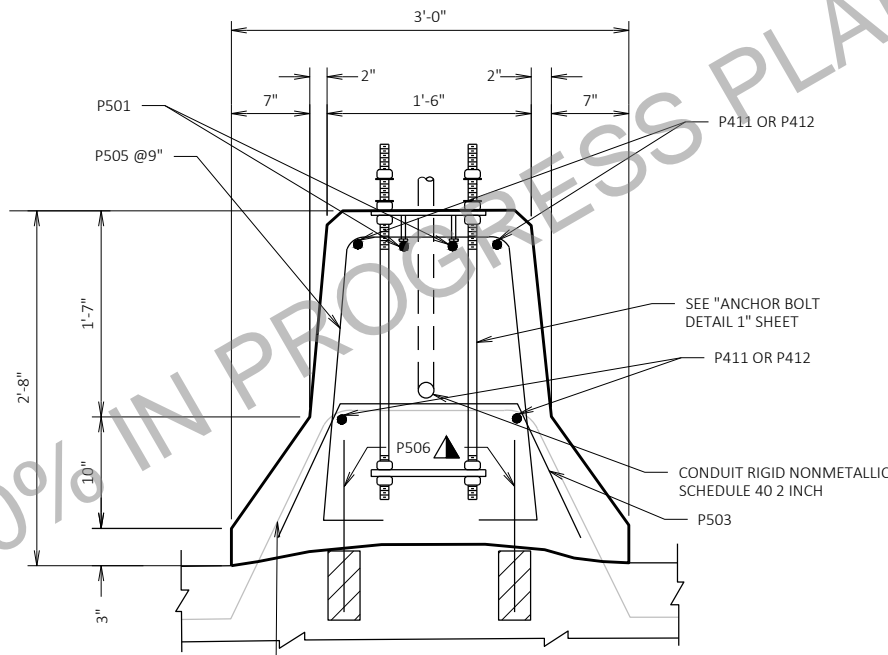
PLAN



ELEVATION



SECTION A-A



SECTION B-B

LEGEND

- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 3/8" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 7 BILL OF BARS

COATED TOTAL = 870 LBS

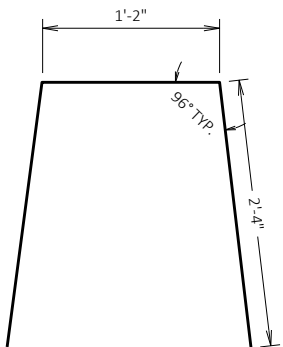
BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	6	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	41	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	8	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	82	5'-8"	X	X	PARAPET VERT.
P505	15	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	97	1'-4"	X		PARAPET VERT. - ANCHORS
P411	8	22'-2"	X		PARAPET HORIZ. - SPAN 17 & 18
P412	4	22'-10"	X		PARAPET HORIZ. - SPAN 19

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS

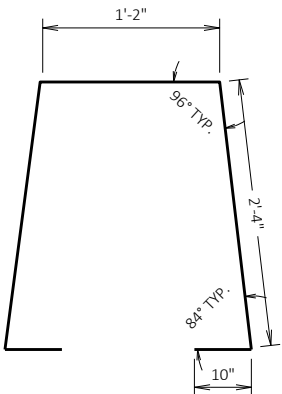
SALVAGE EXISTING #4 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P402 AND P506 BARS AS REQUIRED BY THE ENGINEER.

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH

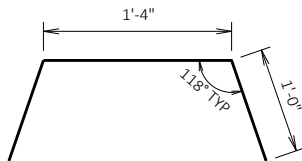
SALVAGE EXISTING #5 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P503 AND P506 BARS AS REQUIRED BY THE ENGINEER.



P404

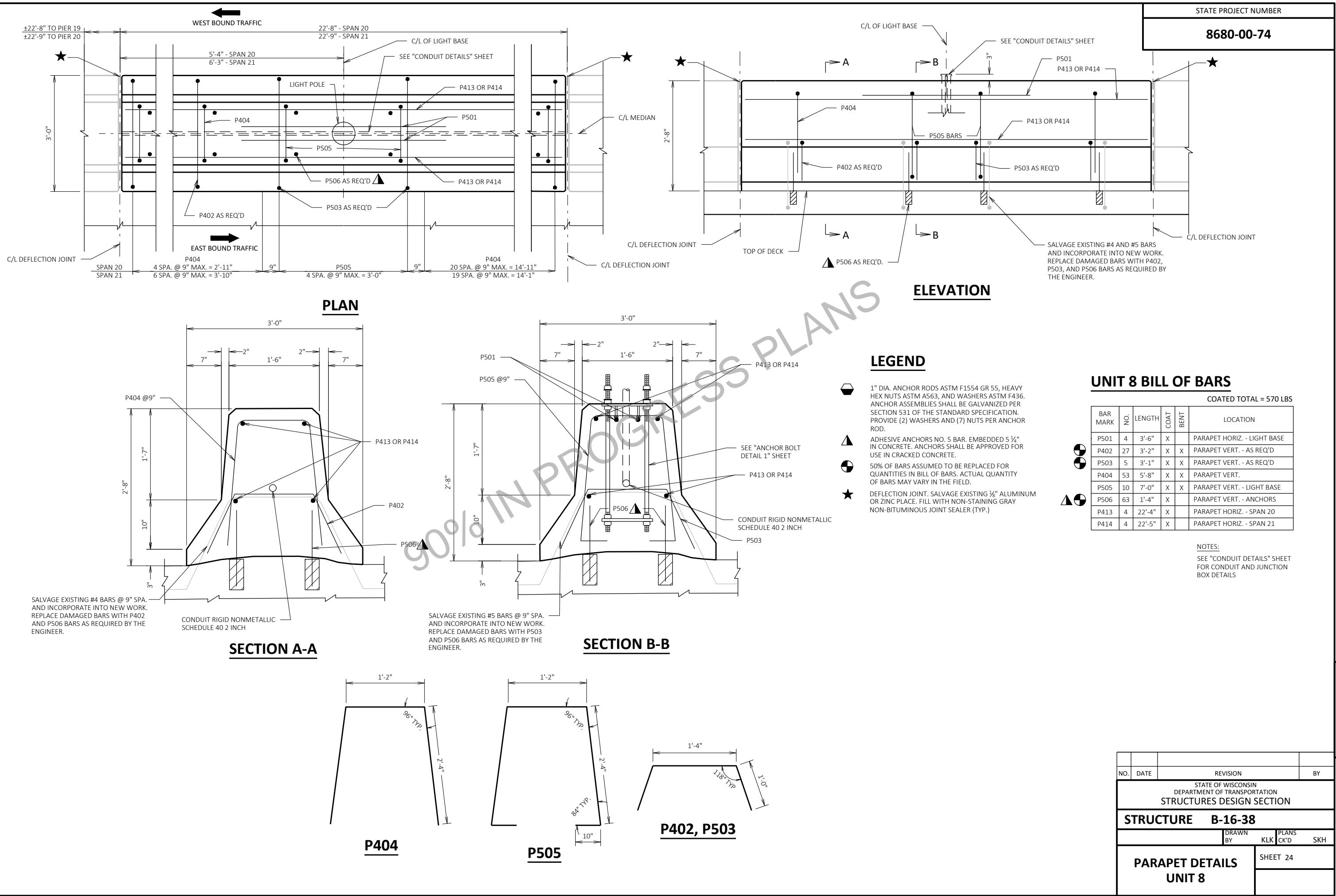


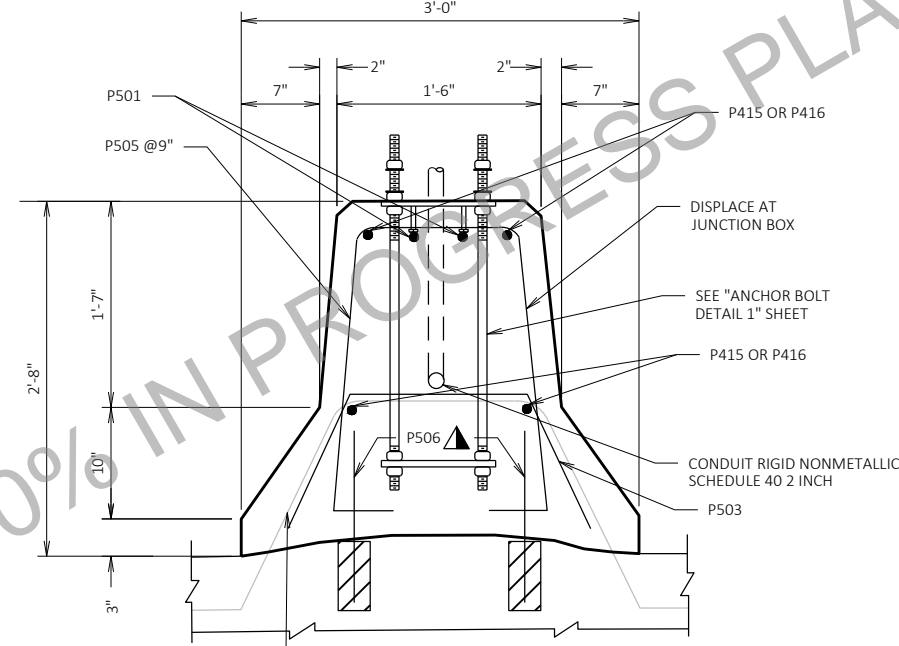
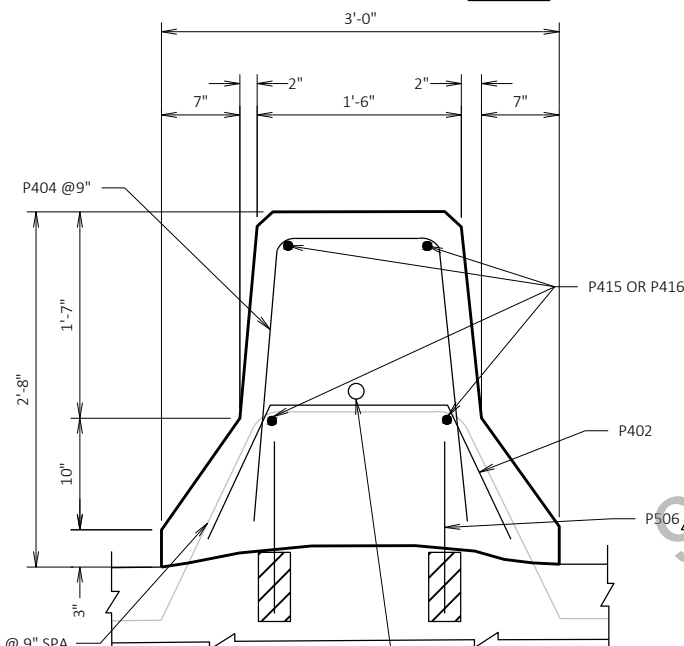
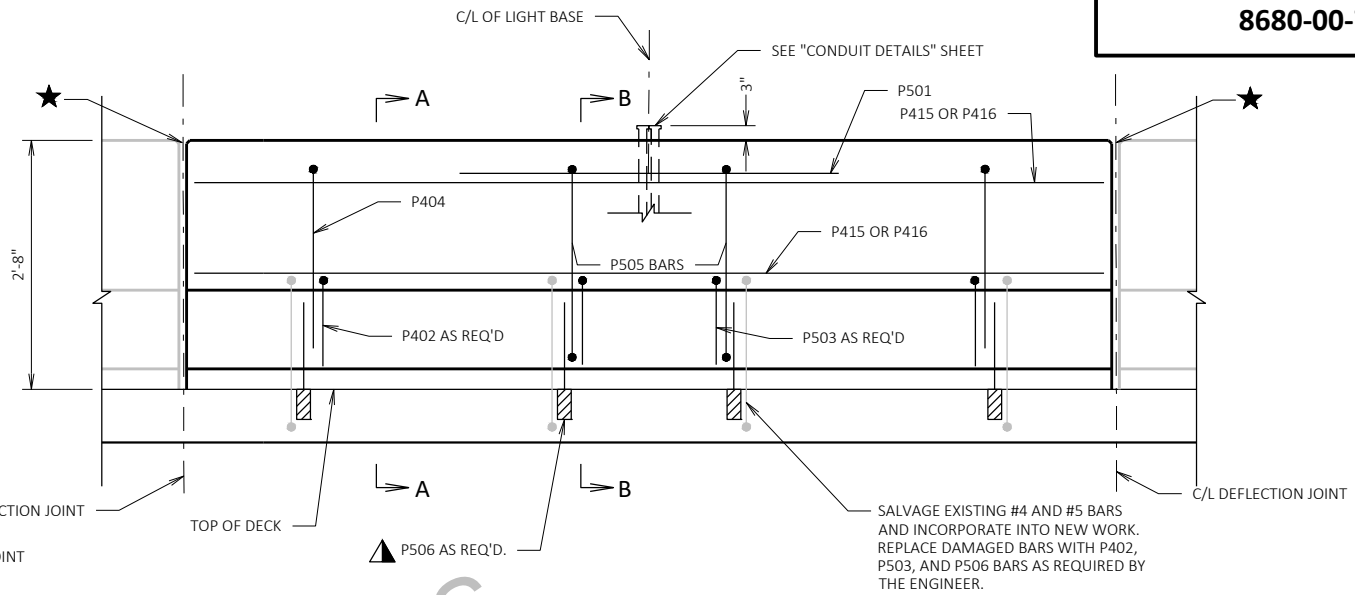
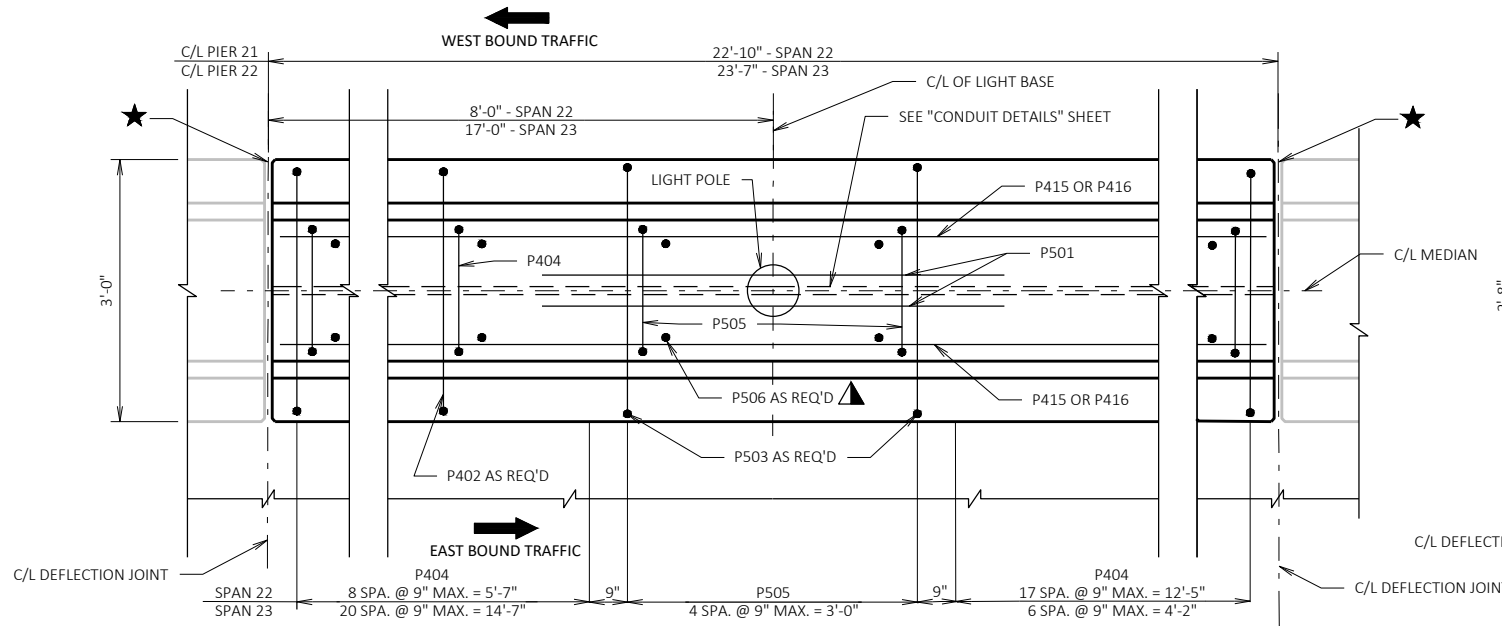
P505



P402, P503

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 7		SHEET 23	





LEGEND

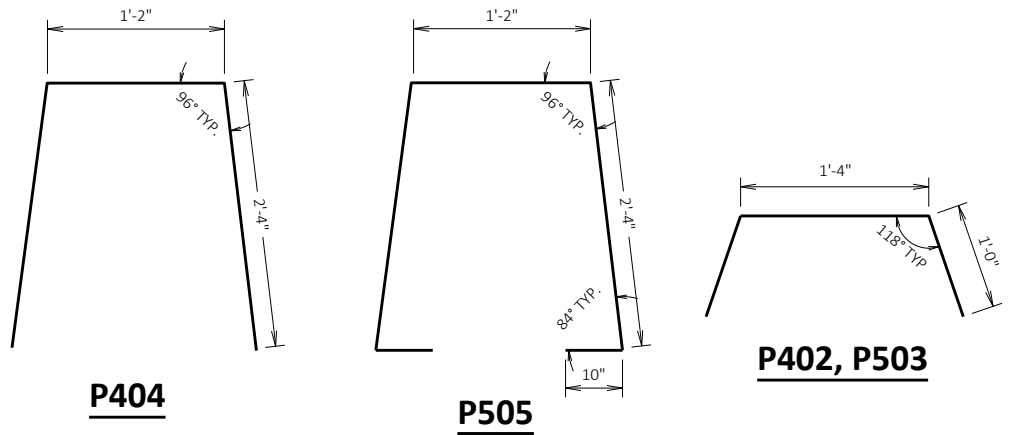
- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 9 BILL OF BARS

COATED TOTAL = 590 LBS

BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	4	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	28	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	5	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	55	5'-8"	X	X	PARAPET VERT.
P505	10	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	65	1'-4"	X		PARAPET VERT. - ANCHORS
P415	4	22'-6"	X		PARAPET HORIZ. - SPAN 22
P416	4	23'-3"	X		PARAPET HORIZ. - SPAN 23

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS



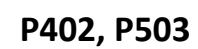
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 9		SHEET 25	



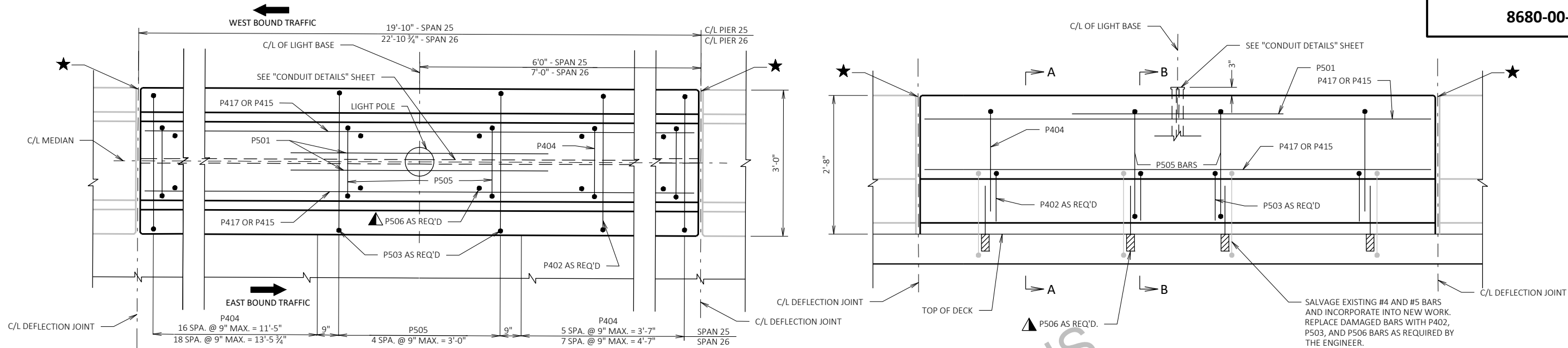
SECTION A-A



NOTES:
SEE "CONDUIT DETAILS" SHEET
FOR CONDUIT AND JUNCTION
BOX DETAILS

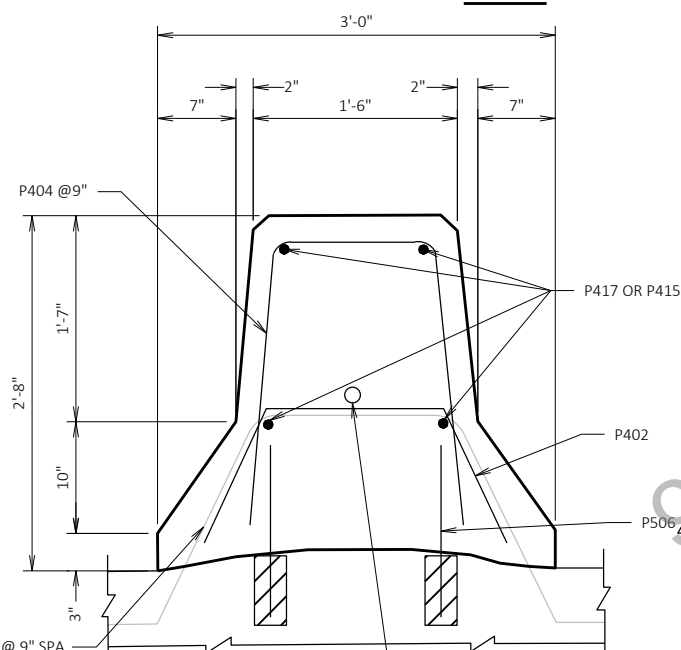


NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE		B-16-38			
		DRAWN BY	KLK	PLANS CK'D	SKH
PARAPET DETAILS UNIT 10			SHEET 26		

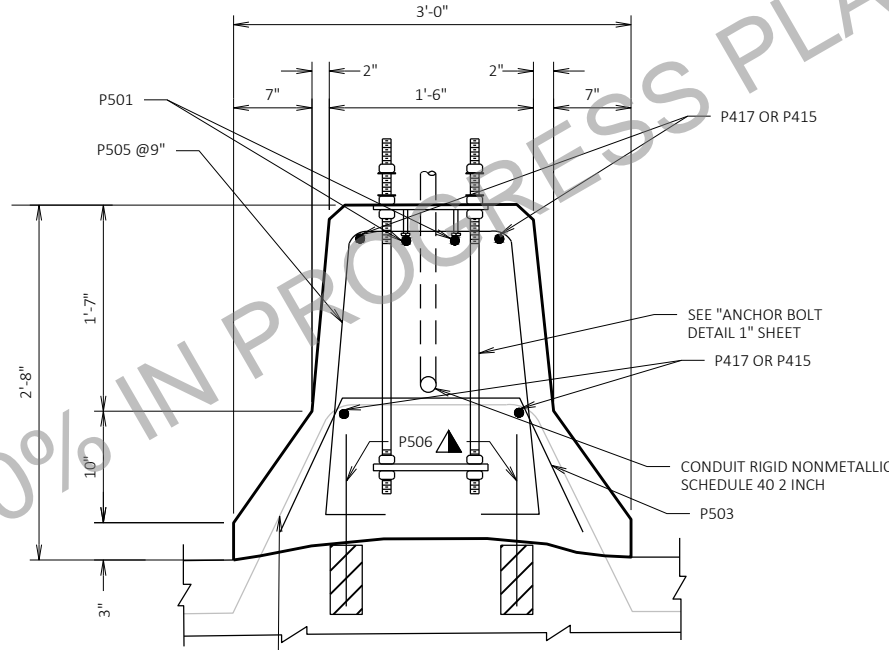


ELEVATION

PLAN



SECTION A-A



SECTION B-B

LEGEND

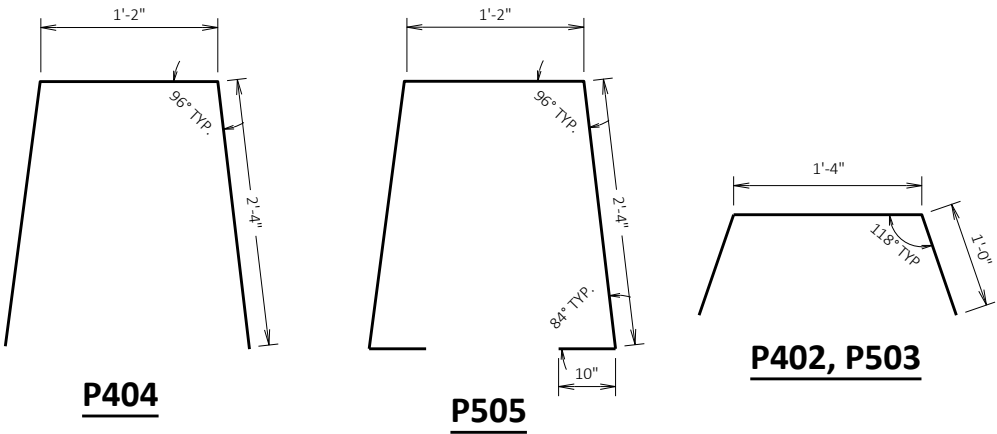
- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 3/8" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 11 BILL OF BARS

COATED TOTAL = 550 LBS

BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	4	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	25	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	5	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	50	5'-8"	X	X	PARAPET VERT.
P505	10	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	60	1'-4"	X		PARAPET VERT. - ANCHORS
P417	4	19'-6"	X		PARAPET HORIZ. - SPAN 25
P415	4	22'-6"	X		PARAPET HORIZ. - SPAN 26

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS

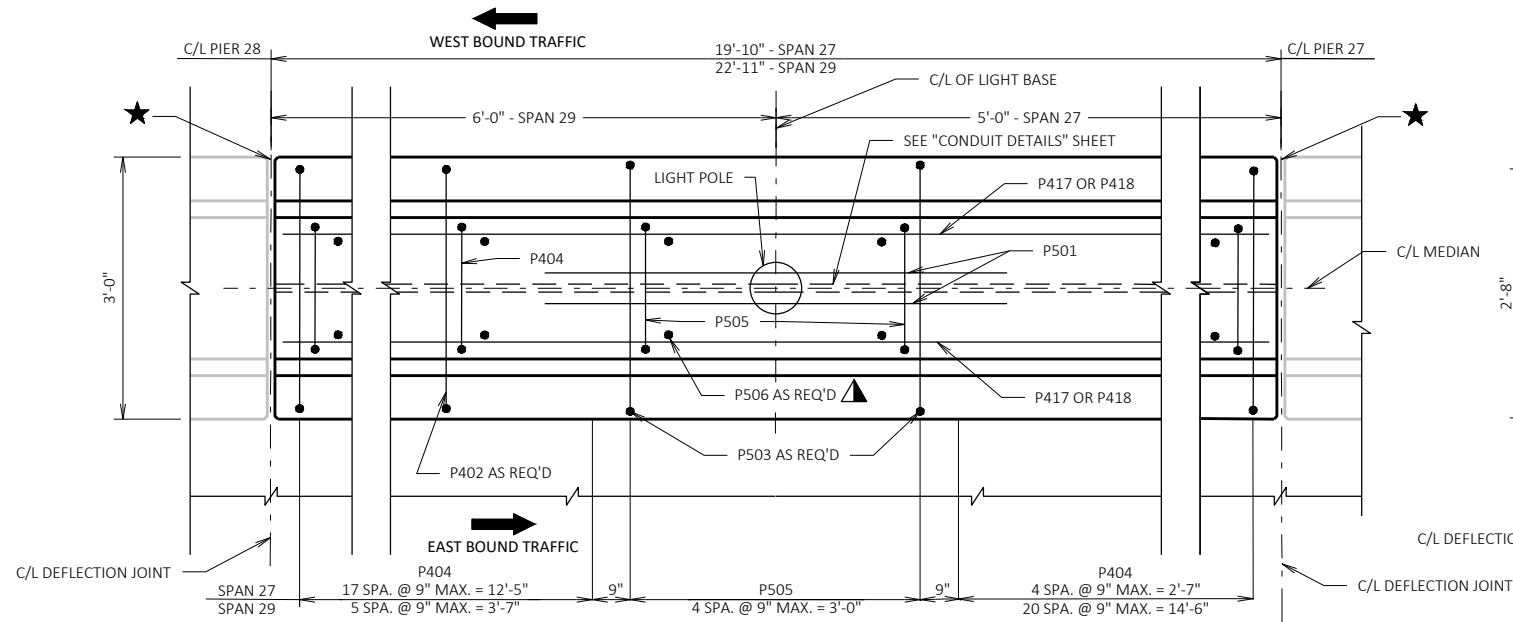


P404

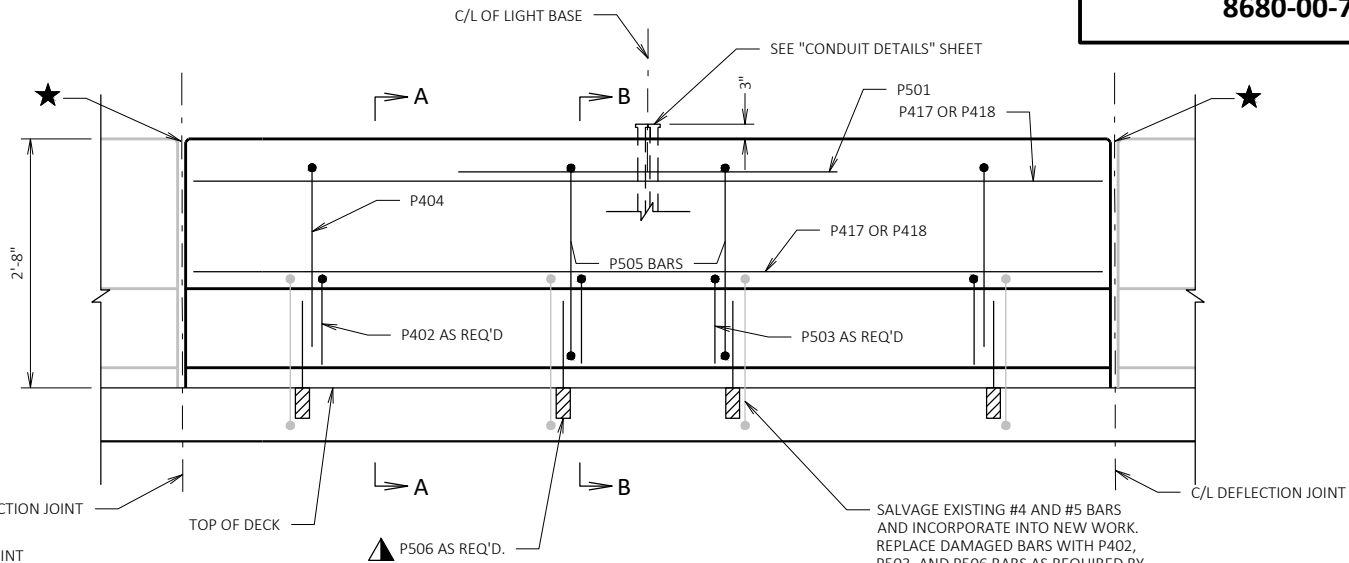
P505

P402, P503

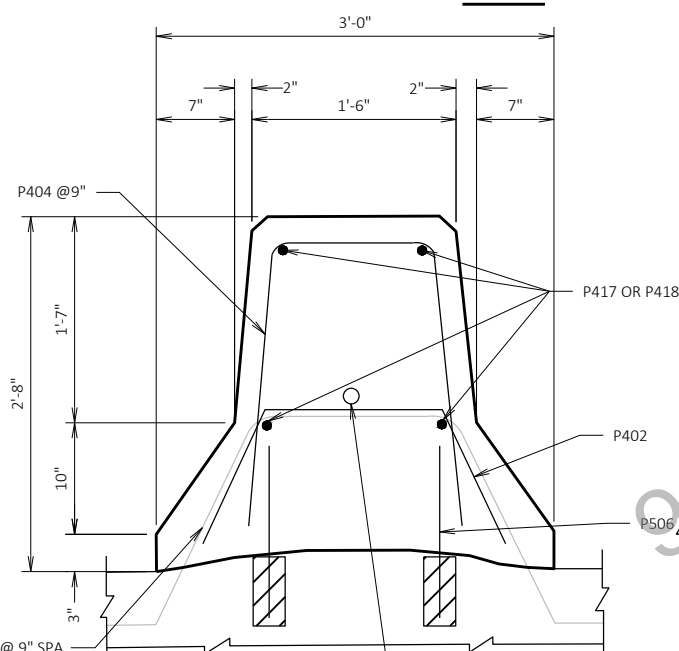
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 11			SHEET 27



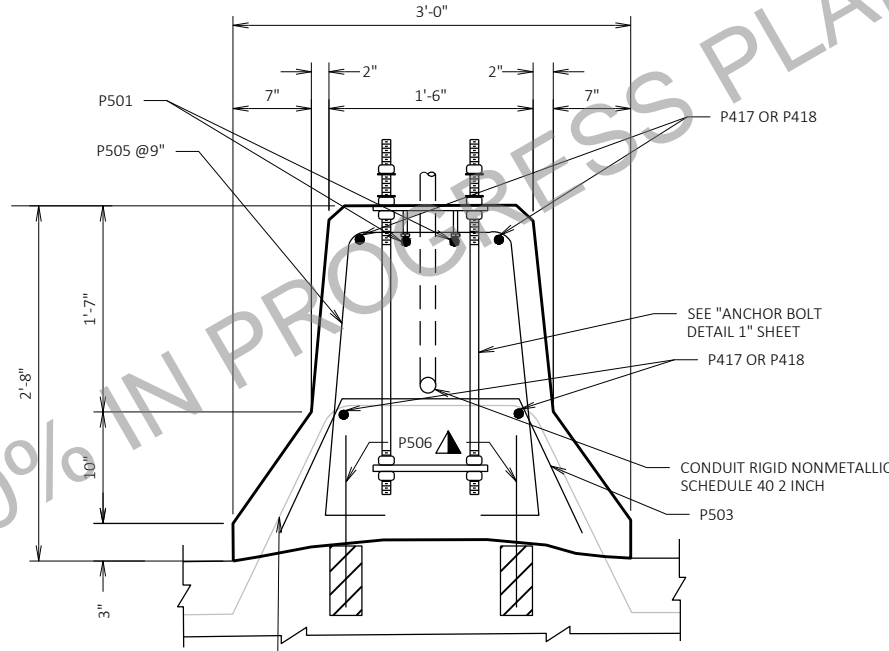
PLAN



ELEVATION



SECTION A-A



SECTION B-B

LEGEND

- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/4" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 12 BILL OF BARS

COATED TOTAL = 550 LBS

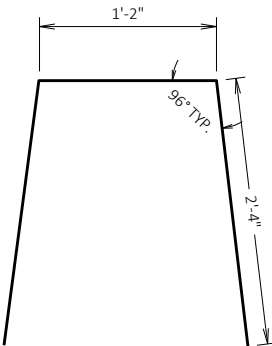
BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	4	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	25	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	5	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	50	5'-8"	X	X	PARAPET VERT.
P505	10	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	60	1'-4"	X		PARAPET VERT. - ANCHORS
P417	4	19'-6"	X		PARAPET HORIZ. - SPAN 27
P418	4	22'-7"	X		PARAPET HORIZ. - SPAN 29

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS

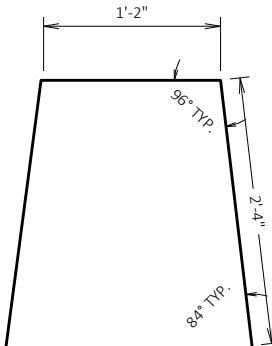
SALVAGE EXISTING #4 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P402 AND P506 BARS AS REQUIRED BY THE ENGINEER.

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH

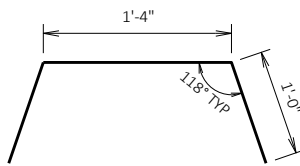
SALVAGE EXISTING #5 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P503 AND P506 BARS AS REQUIRED BY THE ENGINEER.



P404

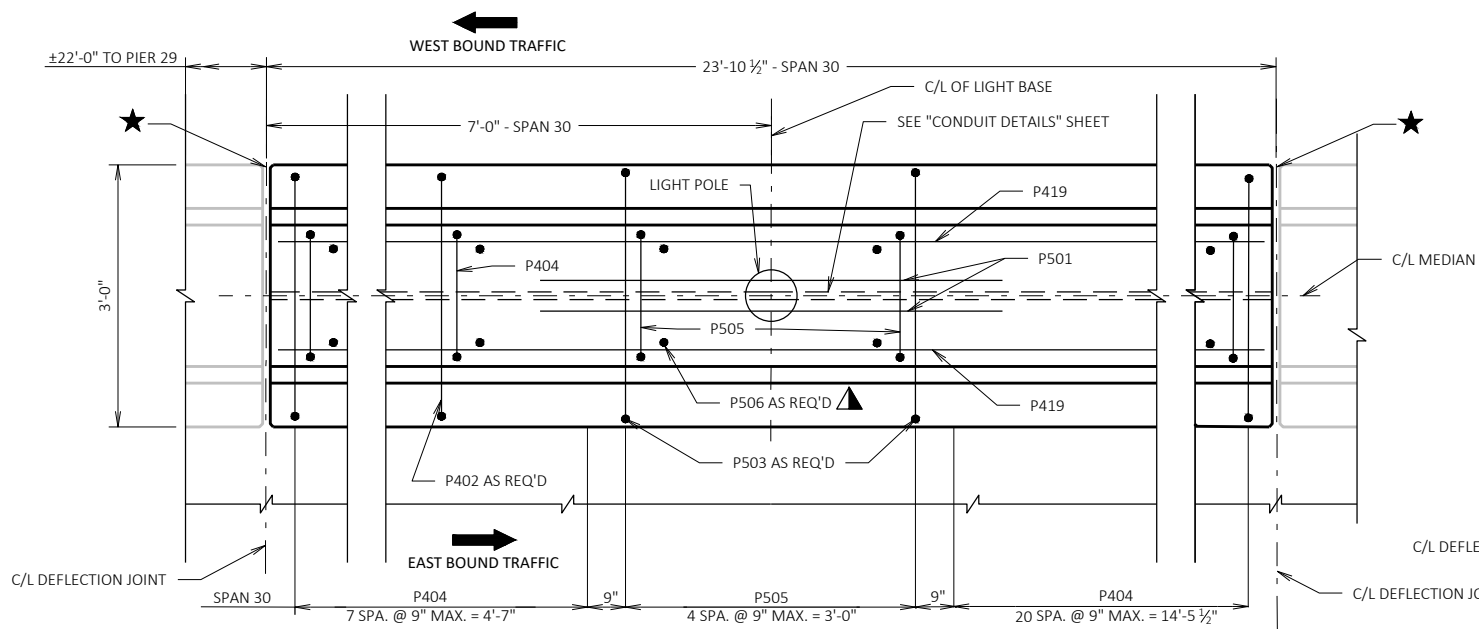


P505

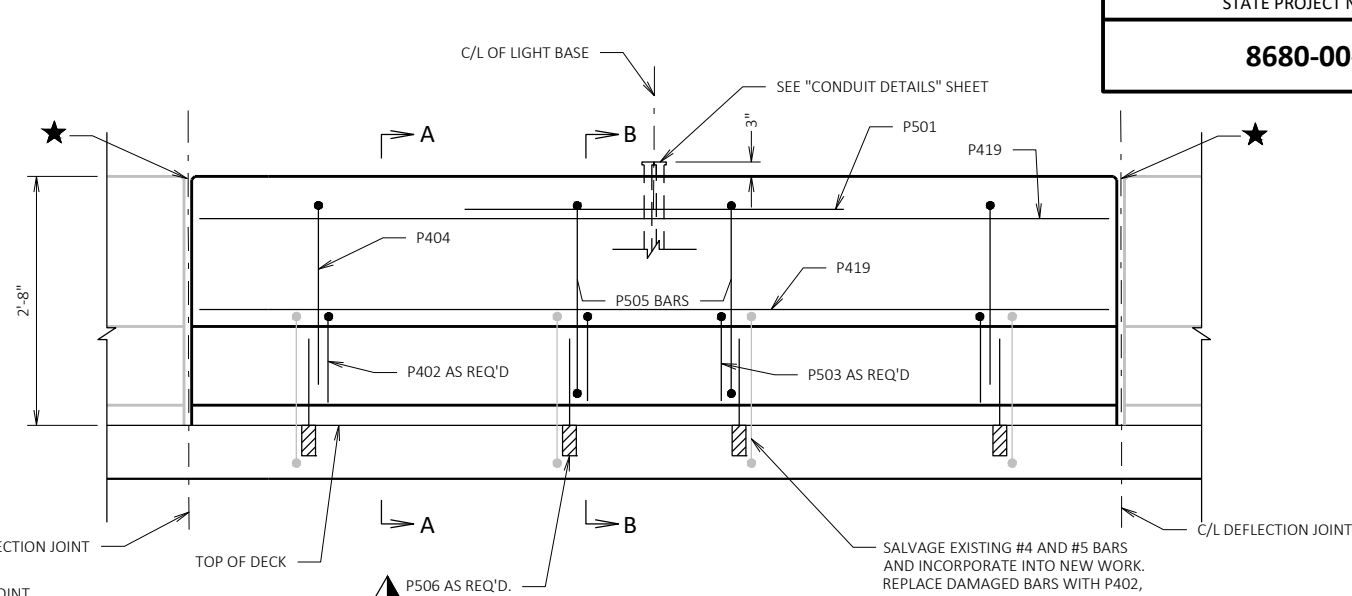


P402, P503

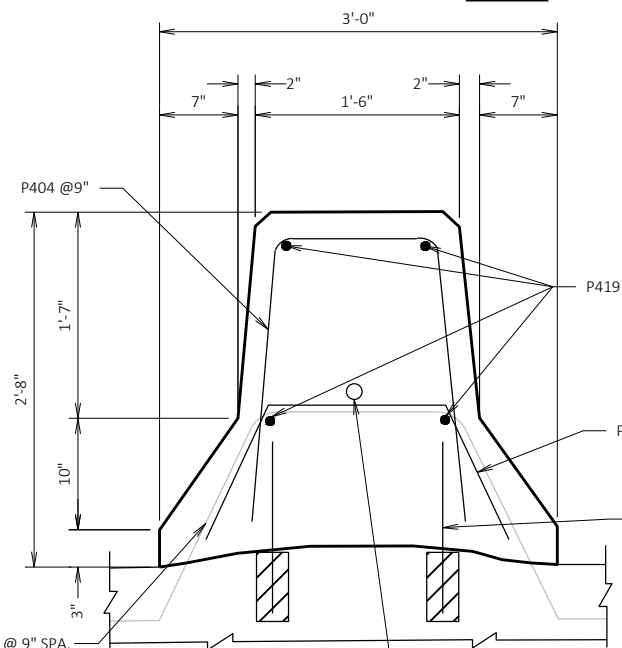
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		PLANS CK'D	SKH
PARAPET DETAILS UNIT 12		SHEET 28	



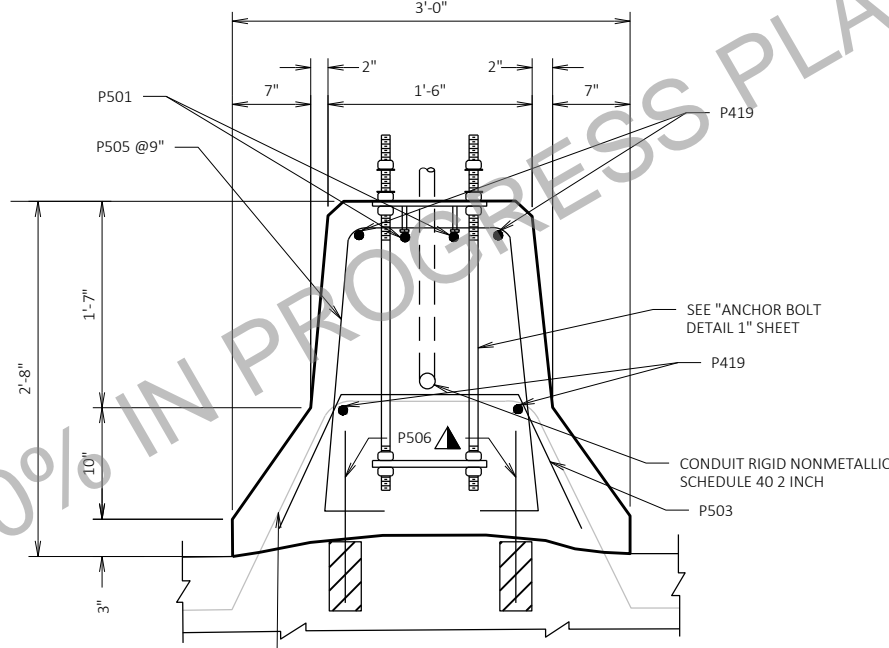
PLAN



ELEVATION



SECTION A-A



SECTION B-B

LEGEND

- 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.
- ADHESIVE ANCHORS NO. 5 BAR. EMBEDDED 5 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
- 50% OF BARS ASSUMED TO BE REPLACED FOR QUANTITIES IN BILL OF BARS. ACTUAL QUANTITY OF BARS MAY VARY IN THE FIELD.
- DEFLECTION JOINT. SALVAGE EXISTING 1/2" ALUMINUM OR ZINC PLATE. FILL WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (TYP.)

UNIT 13 BILL OF BARS

COATED TOTAL = 300 LBS

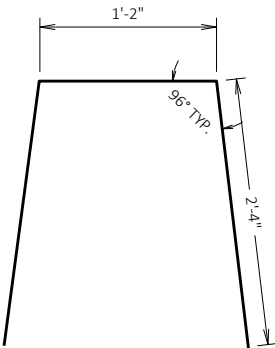
BAR MARK	NO.	LENGTH	COAT	BENT	LOCATION
P501	2	3'-6"	X		PARAPET HORIZ. - LIGHT BASE
P402	15	3'-2"	X	X	PARAPET VERT. - AS REQ'D
P503	3	3'-1"	X	X	PARAPET VERT. - AS REQ'D
P404	29	5'-8"	X	X	PARAPET VERT.
P505	5	7'-0"	X	X	PARAPET VERT. - LIGHT BASE
P506	34	1'-4"	X		PARAPET VERT. - ANCHORS
P419	4	23'-6"	X		PARAPET HORIZ. - SPAN 30

NOTES:
SEE "CONDUIT DETAILS" SHEET FOR CONDUIT AND JUNCTION BOX DETAILS

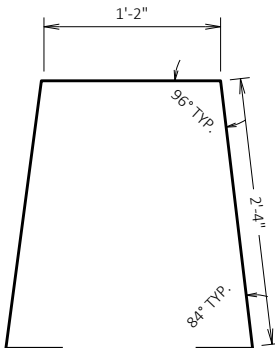
SALVAGE EXISTING #4 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P402 AND P506 BARS AS REQUIRED BY THE ENGINEER.

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 INCH

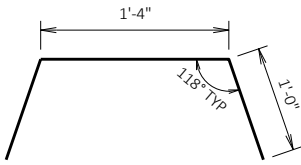
SALVAGE EXISTING #5 BARS @ 9" SPA. AND INCORPORATE INTO NEW WORK. REPLACE DAMAGED BARS WITH P503 AND P506 BARS AS REQUIRED BY THE ENGINEER.



P404



P505



P402, P503

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
PARAPET DETAILS UNIT 13			SHEET 29



(FROM EAST BOUND LANES)
(UNITS 3, 6, 7, 8, 9, 10, 11, 12, 13)



(FROM EAST BOUND LANES)
(UNITS 4 & 5)



(FROM EAST BOUND LANES)
(UNIT 3, SPAN 7)



(UNITS 3, 6, 7, 8, 9, 10, 11, 12, 13)



(UNITS 4 & 5)



CONDUIT SHALL BE EMBEDDED 2" CLEAR.
USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.
CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.
CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.
PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCT LIST.



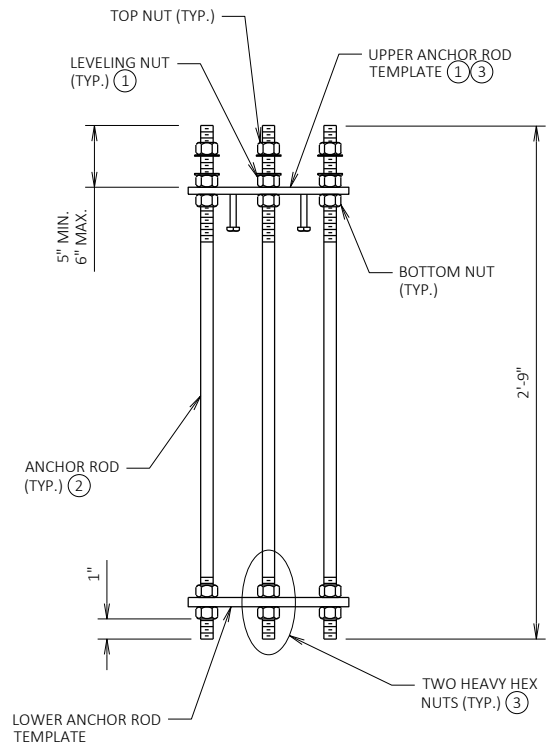
(UNIT 9)



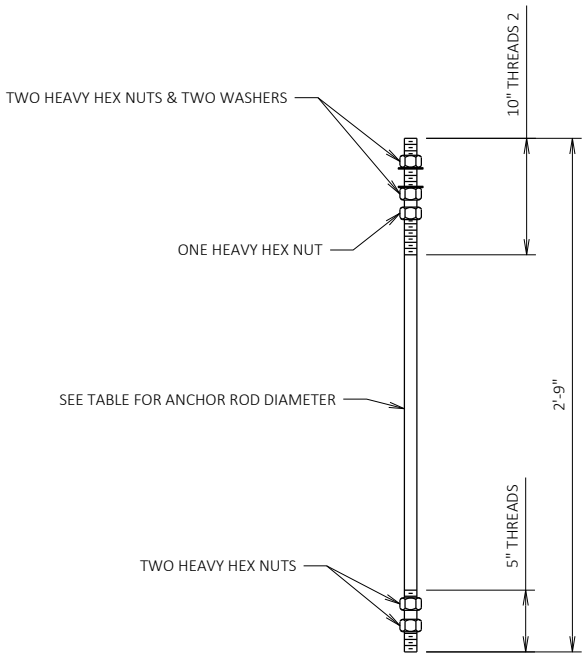
(UNIT 4)

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE
EDGE OF JUNCTION BOX.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-16-38	
		DRAWN BY	PLANS CK'D SKH
CONDUIT DETAILS		SHEET 30	

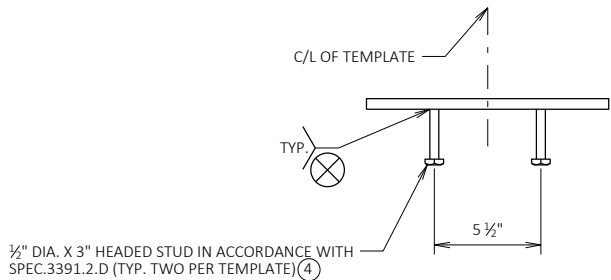


ANCHOR ROD ASSEMBLY



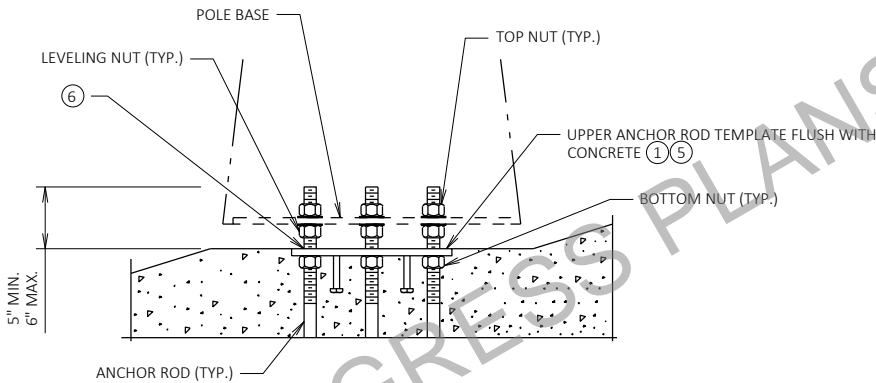
ANCHOR ROD & HARDWARE

SIX REQUIRED PER ASSEMBLY



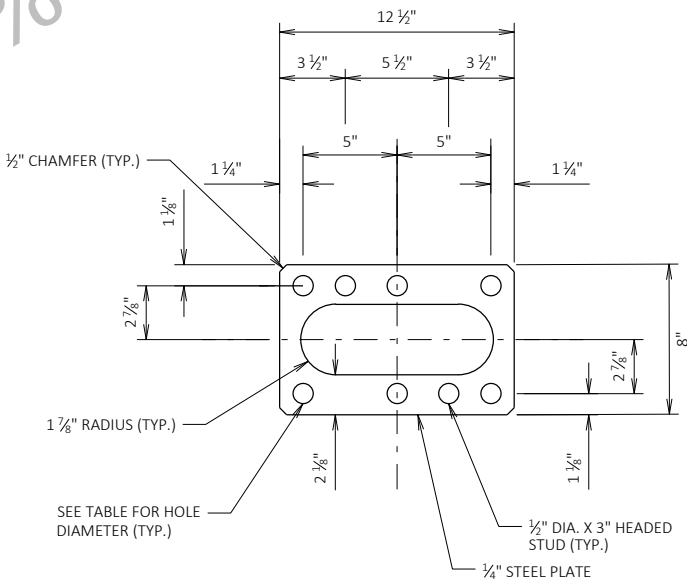
ELEVATION VIEW

UPPER ANCHOR ROD TEMPLATE



PARTIAL ELEVATION

(SHOWING ANCHOR ROD ASSEMBLY & HEX NUT POSITIONS AFTER POLE INSTALLATION)



ANCHOR ROD TEMPLATE

TWO REQUIRED PER ASSEMBLY

ANCHOR ROD DETAILS		
TYPE	ANCHOR ROD DIAMETER	HOLE DIAMETER
49' LIGHT POLES WITH TWIN ARMS 10' OR LONGER	1 1/4"	1 5/8"
OTHERS	1"	1 1/8"

NOTES:

INSTALL ANCHOR ROD ASSEMBLY PLUMB WITH UPPER ANCHOR ROD TEMPLATE LEVEL AND EMBEDDED IN CONCRETE AS SHOWN IN PARTIAL ELEVATION.

PROTECT ANCHOR ROD THREADS AND LEVELING NUTS ABOVE THE UPPER ANCHOR ROD TEMPLATE FROM CONCRETE CONTAMINATION.

FURNISH AND INSTALL GALVANIZED COMPONENTS OF ANCHOR ASSEMBLIES IN ACCORDANCE WITH STANDARD SPEC 531.

TACK WELDING IS PROHIBITED.

ALL ITEMS SHOWN ARE INCLUDED IN BID ITEM "ANCHOR ASSEMBLIES POLES ON STRUCTURES."

LEGEND

- TEMPORARILY SECURE THE UPPER ANCHOR ROD TEMPLATE WITH THE LEVELING NUTS BEFORE CONCRETE PLACEMENT. AFTER CONCRETE PLACEMENT, LEAVE LEVELING NUTS SECURED AGAINST THE TEMPLATE UNTIL THE CLEANING AND LUBRICATING OF THE ANCHOR ROD CONNECTIONS BEFORE POLE PLACEMENT IS INITIATED.
- PROTECT ANCHOR ROD THREADS AND LEVELING NUTS ABOVE THE UPPER ANCHOR ROD TEMPLATE FROM CONCRETE CONTAMINATION.
- USE A 12" LONG WRENCH TO SNUG TIGHTEN NUTS PULLING THE HANDLE WITH ONE ARM IN ONE SMOOTH MOTION.
- HEADED STUDS IN ACCORDANCE WITH STANDARD SPEC 506 ON UPPER ANCHOR ROD TEMPLATE ONLY.
- LOCALLY ADJUST TOP-OF-BARRIER PROFILE AS REQUIRED TO PROVIDE A LEVEL ANCHOR ROD TEMPLATE PLACEMENT.
- REMOVE SURFACE CONTAMINANTS AND APPLY SILICONE JOINT SEALER TO THE UPPER TEMPLATE AROUND THE ANCHOR RODS AND ANCHOR ROD HOLES, AND THE INNER AND OUTER EDGES WHERE THE PLATE MEETS CONCRETE. USE AN APPROVED SILICONE JOINT SEALANT FOUND ON MnDOT'S APPROVED /QUALIFIED PRODUCTS LIST UNDER BRIDGE PRODUCTS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
DRAWN BY		KLK	PLANS CK'D SKH
ANCHOR BOLT DETAIL 1		SHEET 31	

90% IN PROGRESS PLANS

STATE PROJECT NUMBER
8680-00-74

8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-16-38			
		DRAWN BY	PLANS CK'D SKH
ANCHOR BOLT DETAIL 2		SHEET 32	