MAD MAR 2017

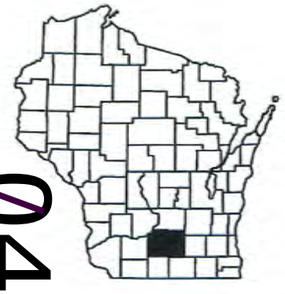
PROJECT ID: 1690-05-71
WITH: 1690-05-72

COUNTY: DANE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	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.~~	~~7~~	~~Sign Plates~~
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 192



N

Subcontractor List:
Augelli Concrete & Excavating, LLC
Guide Lines Pavement Marking, LLC
Hard Rock Sawing & Drilling Specialist Co.
Lunda Construction Company
Payne and Dolan, Inc.
SJK Engineering, LLC
T-N-T Tree Service, LLC
Traffic Control & Protection
West-Land Restoration, Inc.
Yahara Materials, Inc.

DESIGN DESIGNATION

A.A.D.T.	2016	=	6200
A.A.D.T.	2036	=	7900
D.H.V.		=	805
D.D.		=	60/40
T.		=	5.5%
DESIGN SPEED		=	35 MPH
ESALS		=	920,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	956
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

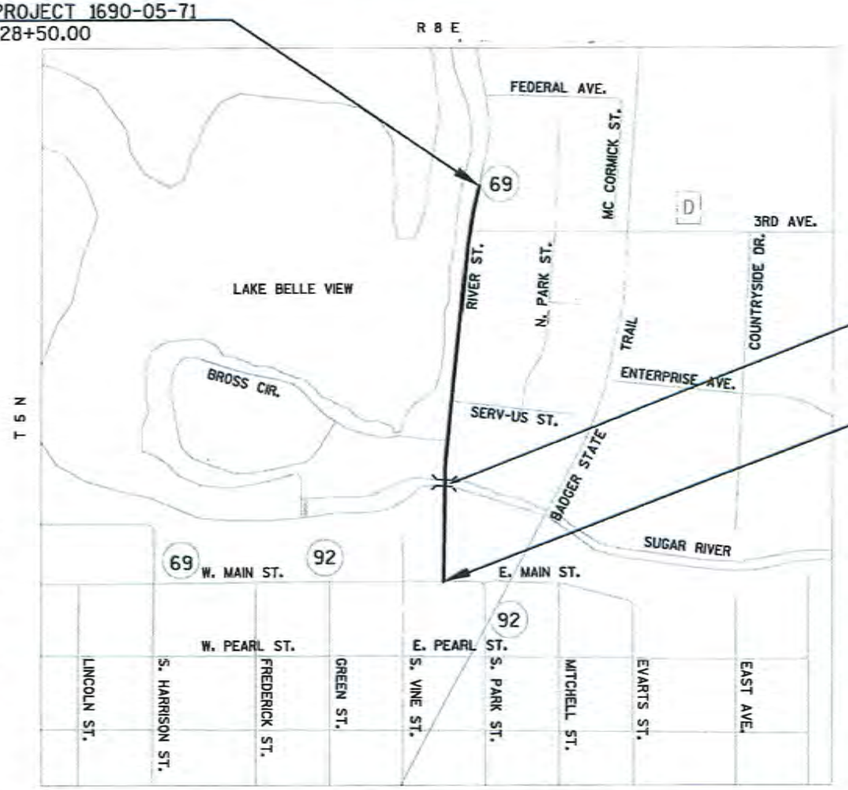
NEW GLARUS - VERONA
STH 92 TO CTH D
STH 69
DANE COUNTY

STATE PROJECT NUMBER
1690-05-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1690-05-71	WISC 2017094	1

AS-BUILT PLAN
STRUCTURE B-13-337
SUPERVISOR: Bill Strobel
PROJECT LEADER: Derrick Ballweg
PROJECT MANAGER: Mahesh Shrestha
PRIME CONTRACTOR: H. James & Sons, Inc.
WORK STARTED: 5/22/17
WORK COMPLETED: 8/30/17

END PROJECT 1690-05-71
STA. 28+50.00



B-13-337
EXCEPTION TO NET
CENTERLINE LENGTH
142.67'

BEGIN PROJECT 1690-05-71
STA. 10+17.94
Y=404,492.01
X=781,199.50

LAYOUT
SCALE 0 1/8 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.320 MI (URBAN)

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ORIGINAL PLANS PREPARED BY
GRAEF 125 S. 84TH STREET, SUITE 401 MILWAUKEE, WI 53214

WISCONSIN
JACQUELYN M. MESSER
41278
DELAFIELD, WI
PROFESSIONAL ENGINEER

10/21/16 (Date) Jacquelyn M Messer (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GRAEF
Designer	GRAEF
Project Manager	MAHESH SHRESTHA
Regional Examiner	
Regional Supervisor	BILL STROBEL

APPROVED FOR THE DEPARTMENT
DATE: 10/24/2016 (Signature)

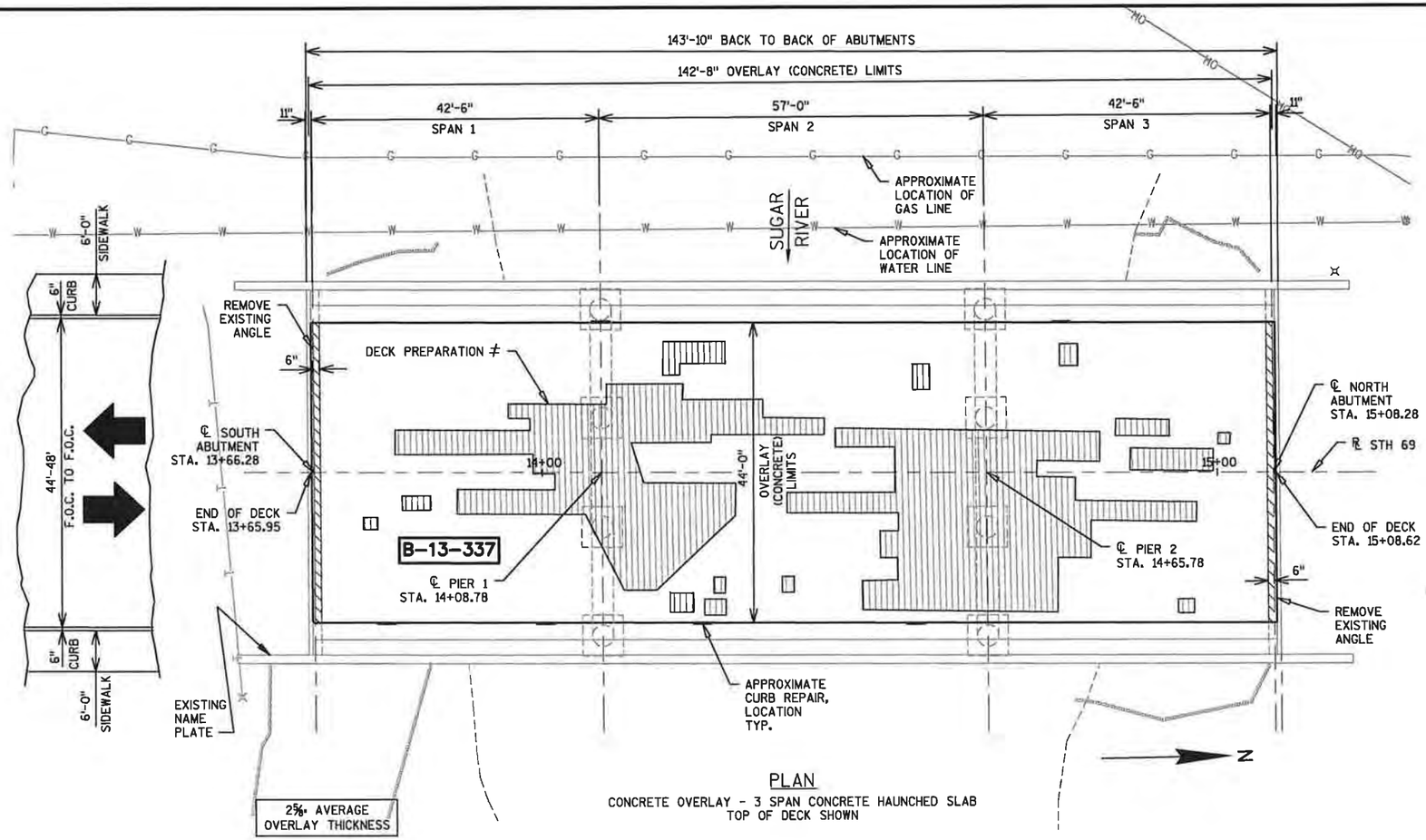
E

FILE NAME : L:\JOBS2014\20145023\CAD\TRANSPORTATION\DWG\SHEETSPLAN\OLD\010101_TI.DWG
2014-5023 - 010101_TI - TITLE SHEET 1 IN EQ 0.5 MI

PLOT DATE : 10/24/2016 8:20 AM PLOT BY : MESSER, JACKIE PLOT NAME :

WISDOT/CADDS SHEET 10

STATE PROJECT NUMBER
1690-05-71

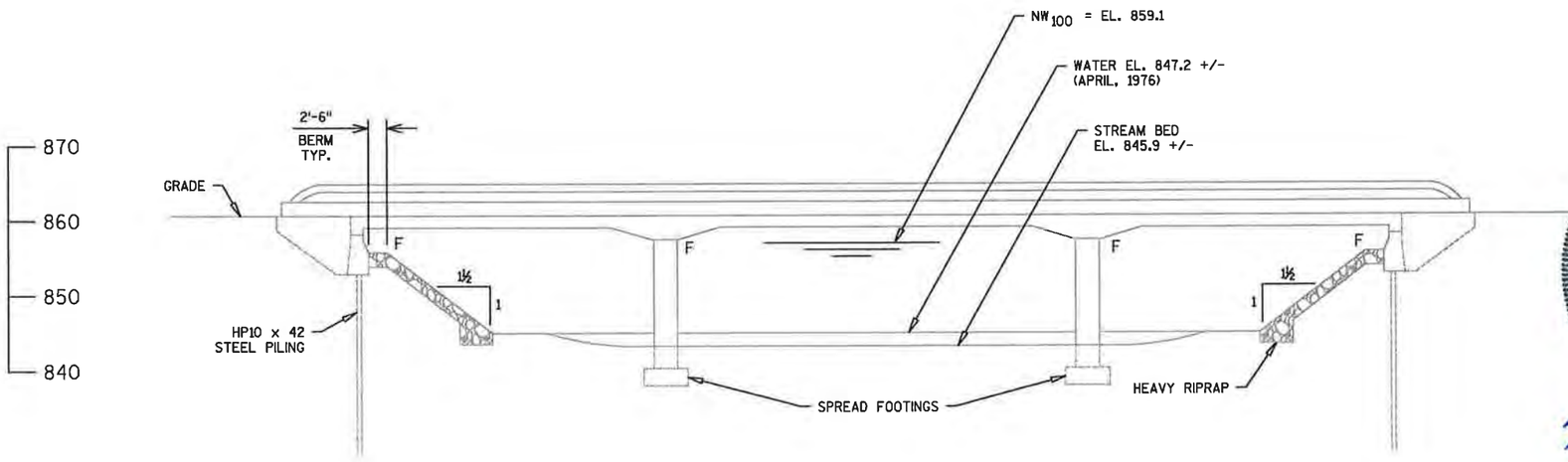


PLAN

CONCRETE OVERLAY - 3 SPAN CONCRETE HAUNCHED SLAB
TOP OF DECK SHOWN

≠ SURVEY TYPE: INFRARED INSPECTION
SURVEY COMPLETED DATE: 10/21/2014 BY AECOM

See next sheets for as-built deck repair areas and curb repair areas



ELEVATION

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION & QUANTITIES

WISCONSIN
KEVIN G. WOOD
E-32070
MILWAUKEE, WI
PROFESSIONAL ENGINEER
Oct. 11, 2016

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

CONSULTANT CONTACT:
KEVIN G. WOOD (414) 259-1500

NO.	DATE	REVISION	BY

GRÄEF
5126 West Terrace Drive, Suite 111
Madison, WI 53718-8345
608 / 242 1550
608 / 242 0787 fax
www.graef-usa.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 11/18/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-337

STH 69 OVER SUGAR RIVER

COUNTY	~~TOWN/CITY/~~VILLAGE
DANE	BELLEVILLE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
RPB	KGW	SRK	KGW

GENERAL PLAN & ELEVATION

SHEET 1 OF 2
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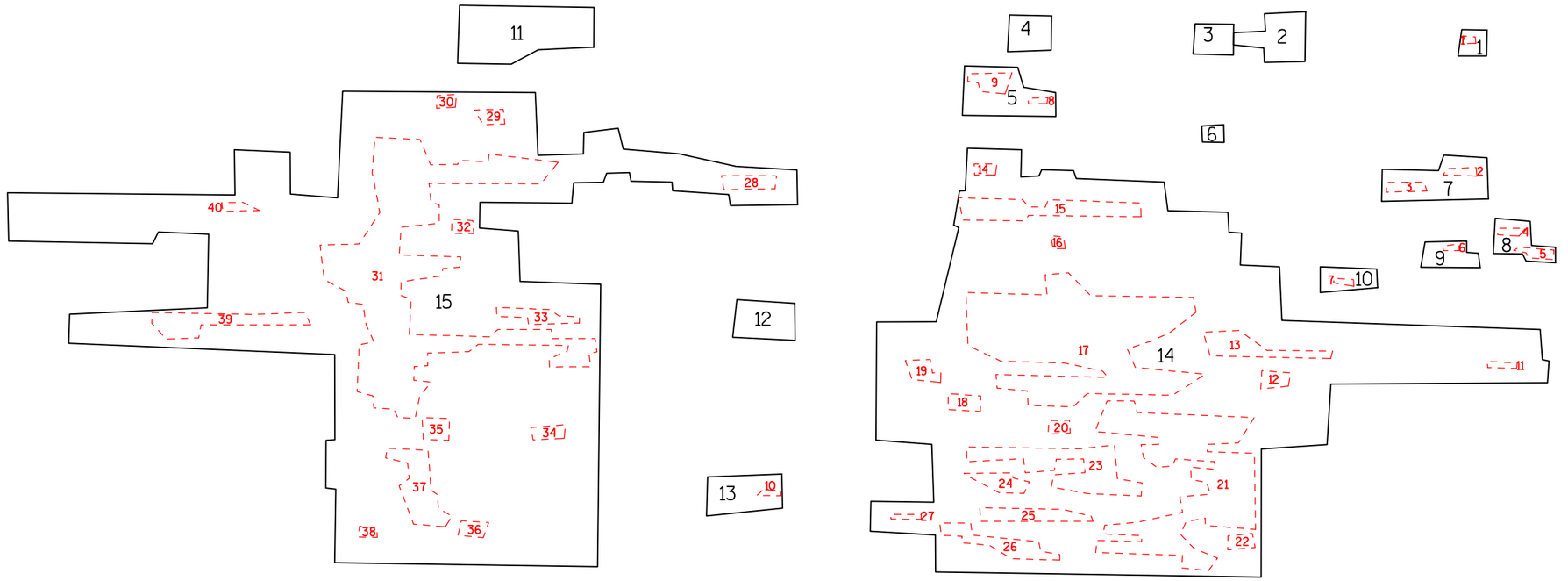


PREPARATION DECKS TYPE 1

1	4.0 SF	0.4 SY
2	13.9 SF	1.5 SY
3	6.8 SF	0.8 SY
4	8.7 SF	1.0 SY
5	21.2 SF	2.4 SY
6	2.1 SF	0.2 SY
7	21.7 SF	2.4 SY
8	9.6 SF	1.1 SY

9	7.5 SF	0.8 SY
10	7.2 SF	0.8 SY
11	38.3 SF	4.3 SY
12	12.8 SF	1.4 SY
13	15.6 SF	1.7 SY
14	881.4 SF	97.9 SY
15	889.0 SF	98.8 SY
	TOTAL	**215.4 SY**

PREPARATION DECKS TYPE 2

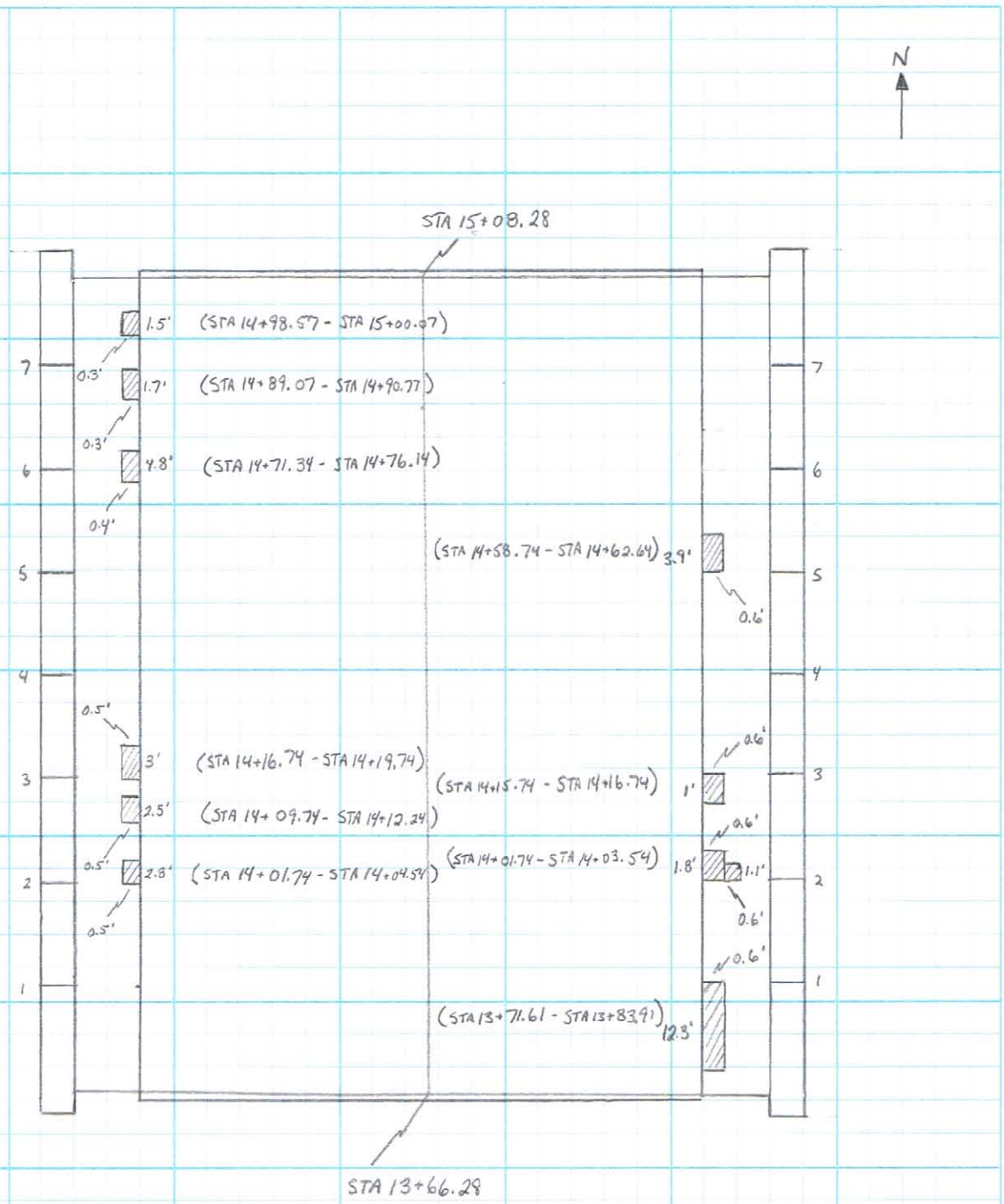
1	0.4 SF	0.1 SY
2	1.3 SF	0.1 SY
3	2.1 SF	0.2 SY
4	1.0 SF	0.1 SY
5	1.8 SF	0.2 SY
6	0.5 SF	0.1 SY
7	0.6 SF	0.1 SY
8	0.6 SF	0.1 SY

9	3.8 SF	0.4 SY
10	0.7 SF	0.1 SY
11	1.0 SF	0.1 SY
12	2.5 SF	0.3 SY
13	9.8 SF	1.1 SY
14	1.4 SF	0.2 SY
15	17.0 SF	1.9 SY
16	0.9 SF	0.1 SY

17	106.7 SF	11.9 SY
18	2.9 SF	0.3 SY
19	3.1 SF	0.3 SY
20	1.6 SF	0.2 SY
21	73.2 SF	8.1 SY
22	2.1 SF	0.2 SY
23	23.6 SF	2.6 SY
24	4.6 SF	0.5 SY

25	7.4 SF	0.8 SY
26	9.1 SF	1.0 SY
27	0.8 SF	0.1 SY
28	4.1 SF	0.5 SY
29	2.1 SF	0.2 SY
30	1.4 SF	0.2 SY
31	128.4 SF	14.3 SY
32	1.6 SF	0.2 SY

33	4.8 SF	0.5 SY
34	2.4 SF	0.3 SY
35	3.3 SF	0.4 SY
36	2.3 SF	0.3 SY
37	13.6 SF	1.5 SY
38	1.0 SF	0.1 SY
39	13.3 SF	1.5 SY
40	1.4 SF	0.2 SY
	TOTALS	**51.4 SY**



Project/Structure No	1690-05-71 (B-13-337)	Hwy No	69	County	DANE	Computations by	JMR	Date	8/15/17
Name of Road	NEW GLARUS - VERONA					Checked by		Date	
Title/Item	CURB REPAIR AREAS ; CONCRETE MASONRY					Sheet	1	Of	2

0340-71-20.01A

STATE PROJECT NUMBER
1690-05-71

BENCH MARK

BM#2 - ALUMINUM DISC IN THE SIDEWALK AT THE SOUTHEAST CORNER OF THE BRIDGE WITH ELEVATION 863.06

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	S. ABUT	N. ABUT	PIER 1	PIER 2	SUPER	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	698	698
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	200	200
509.0302	PREPARATION DECKS TYPE 2	SY	-	-	-	-	103	103
509.0500	CLEANING DECKS	SY	-	-	-	-	698	698
509.1200	CURB REPAIR	LF	-	-	-	-	10	10
509.1500	CONCRETE SURFACE REPAIR	SF	-	2	17	-	-	19
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	-	-	-	-	69	69
	NON-BID ITEMS							

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS-20

INVENTORY RATING: HS-23

OPERATING RATING: HS-39

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES:
CONCRETE MASONRY OVERLAY DECKS.....f'c = 4,000 P.S.I.

TRAFFIC DATA

STH 69
A.D.T. = 6,200 (2016)
A.D.T. = 7,900 (2036)
RDS = 35 MPH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

USE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

A MINIMUM OF 1" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS". ORIGINAL PLANS INDICATE A 2½-INCH TOP OF CONCRETE COVER.

THE EXISTING STRUCTURE, B-13-337, IS A 3-SPAN CONCRETE HAUNCHED SLAB BRIDGE WITH AN OVERALL WIDTH OF 56'-0" AND AN OVERALL LENGTH OF 143'-10". THE ENTIRE DECK SURFACE IS TO BE PREPARED FOR A NEW CONCRETE OVERLAY.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR THE PAVING BLOCK AT ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED WITH A 1" SAWCUT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

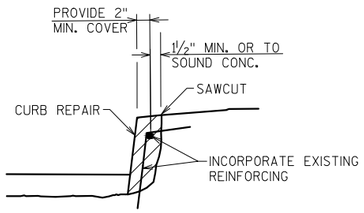
"PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL-DEPTH DECK REPAIR" AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS."

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2⅝". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

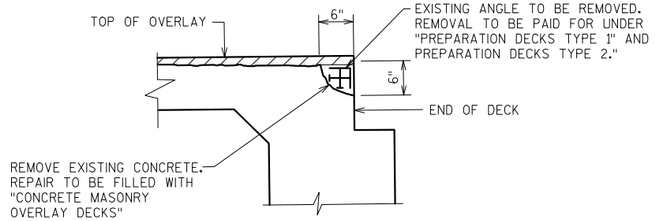
"CONCRETE SURFACE REPAIR" AND "CURB REPAIR" AS DIRECTED BY THE FIELD ENGINEER. QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

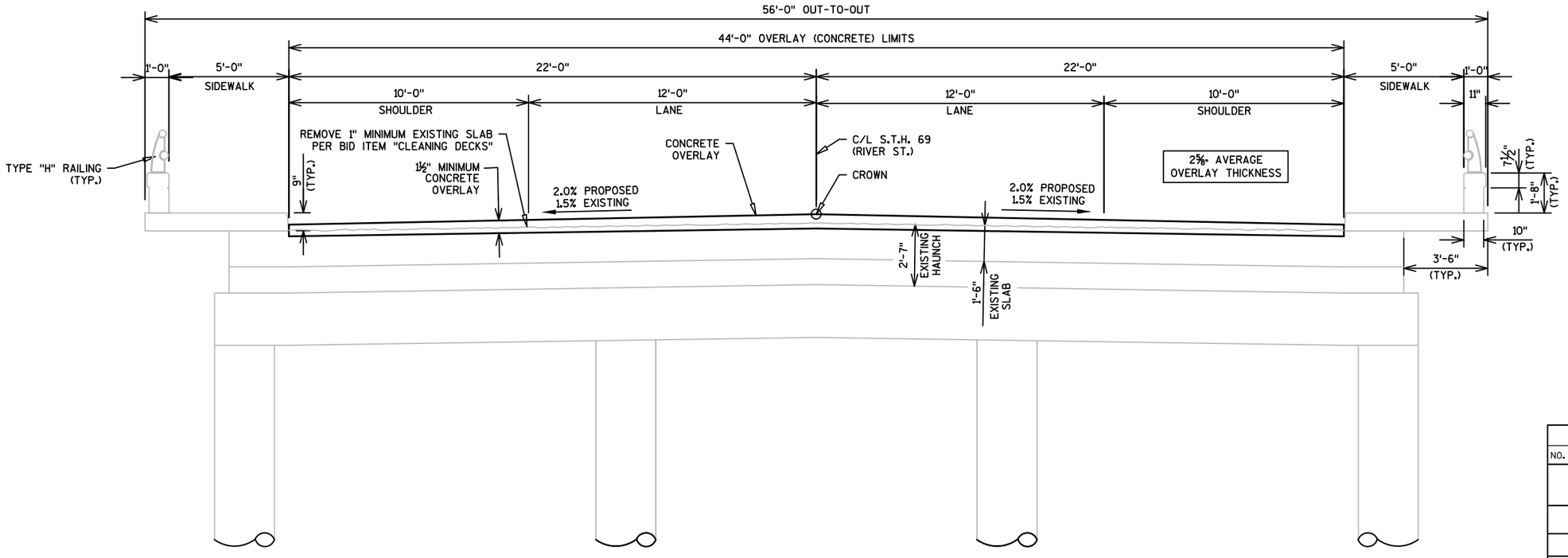
NOT MORE THAN 1/3 OF THE TOP BAR STEEL SHALL BE EXPOSED IN THE NEGATIVE MOMENT AREA
IF THE BAR ENDS ARE NOT ANCHORED. IF MORE THAN 1/3 OF THE STEEL IS EXPOSED, EITHER THE CENTERS OF ADJACENT SPANS MUST BE SHORED OR ONLY LONGITUDINALLY OVERLAY 1/3 OF THE BRIDGE AT A TIME.



CURB REPAIR DETAIL



SECTION AT END OF SLAB



CROSS SECTION THRU ROADWAY

LOOKING NORTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-337

DRAWN BY SRK | PLANS CK'D. KGW

CROSS SECTION & QUANTITIES

SHEET 2 OF 2

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