SHEET NUMBERS
1
2
SEE RIVER
3
4-5
6
RIVER
7-9
10-11

CITY OF OWOSSO

PLANS OF PROPOSED

GOULD STREET OVER SHIAWASSEE RIVER OAKWOOD AVENUE OVER SHIAWASSEE RIVER

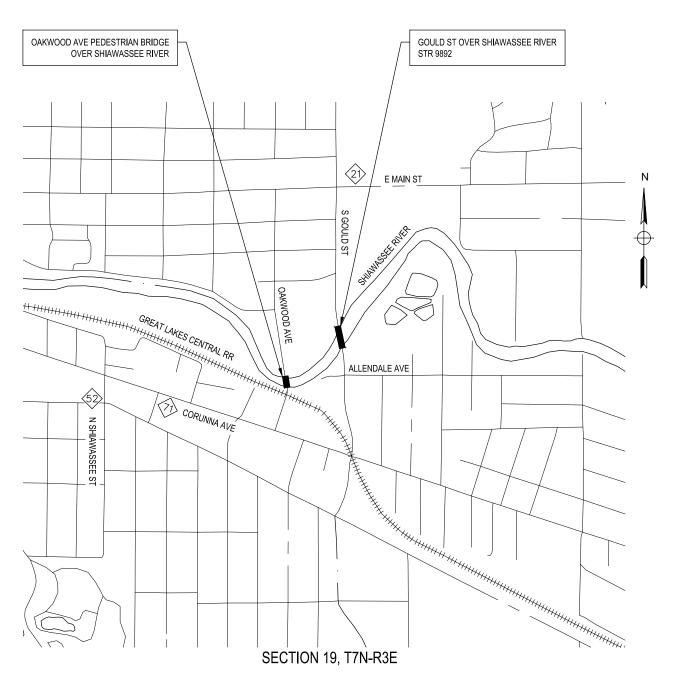
> CITY OF OWOSSO SHIAWASSEE COUNTY

	GOULD ST. TRAFFIC DATA		
7,758		PRESENT ADT (2023)	
7,400		FUTURE ADT (2043)	
35 MPH		POSTED SPEED	
4%		COMMERICAL	

OAKWOOD AVE. TRAFFIC DATA			
N/A		PED. STRUCTURE	



AREA MAP NOT TO SCALE



THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE BASED ON THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION, AND THE AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS. 2018 EDITION, AND THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION.

THE WORK COVERED BY THESE PLANS INCLUDES TIMBER DECK REPLACEMENT, EPOXY OVERLAY REPAIRS, CONCRETE DECK AND RAILING PATCHING, JOINT RESEALING, CONCRETE RAILING SURFACE COATING, AND MAINTAINING TRAFFIC

CITY OF OWOSSO APPROVAL

CLAYTON WEHNER, DIRECTOR OF ENGINEERING

THESE PLANS WERE PREPARED FOR THE THE CITY OF OWOSSO BY



RICHARD KATHRENS, P.E.

6201043892 REGISTRATION NO.

1/31/24

DATE

SAGINAW OFFICE

230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS. THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

MDOT STANDARD PLANS

MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY B-103-E

AND NAME PLATE DETAILS TRANSVERSE PAVEMENT JOINTS GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS TEMPORARY TRAFFIC CONTROL DEVICES

R-39-K WZD-100-A* WZD-125-E*

*SPECIAL DETAILS INCLUDED IN PROPOSAL

	FINAL PLAN REVISIONS
Thirt	DESCRIPTION
⊘ 2024	



N/A	SGI PRO	JJE
	DATE:	FE
N/A	FILE:	DE

PR	OJECT NO:	134702SG2023	CS
ΓE:	FEBRUARY, 2024		JN
. .	DR-1247-1 TITLE	DWG	

TITLE SHEET DRAWING SHEET

GENERAL NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2020 EDITION.

UNDERGROUND UTILITIES/MISS DIG

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013. THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS

EXISTING WATER MAINS AND SEWERS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERLY IDENTIFIED EXISTING WATER MAINS AND/OR EXISTING SEWERS DURING THE CONSTRUCTION OF THIS

PAVEMENT MARKINGS AND SIGNS

ALL PERMANENT PAVEMENT MARKINGS, SHAPES, AND DIMENSIONS SHALL CONFORM WITH MDOT PAVEMENT MARKING TYPICALS PAVE-900 SERIES.

SOIL EROSION MEASURES

APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.

SEED MIXTURE

THE DESIGNATION FOR THE PERMANENT TURF SEED MIXTURE ON THIS PROJECT SHALL BE

ELECTRICAL UTILITIES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING ELECTRICAL UTILITIES DURING CONSTRUCTION.

GENERAL NOTES

STRUCTURAL THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING

STEEL REINFORCEMENT ------ fy = 60,000 psi STRUCTURAL STEEL:

AASHTO M270 Grade 36 ----- fy = 36,000 psi

BRIDGE PAINT MAY CONTAIN LEAD.

UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:

CONCRETE CAST AGAINST EARTH: ALL OTHER UNLESS SHOWN ON PLANS:

IMPLEMENT MEASURES TO PREVENT DEBRIS FROM FALLING FROM THE STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY, REMOVE IT WITHIN 24 HOURS. SINCE DISTURBANCE OF THE WATERWAY BOTTOM MAY BE AS HARMFUL AS THE DEBRIS ITSELF. THE PREVENTIVE MEASURES MUST BE EFFECTIVE. REMOVAL OF DEBRIS IS INCLUDED IN RELATED ITEMS OF WORK.

BEVEL ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

EXISTING PLANS CAN BE VIEWED AT THE CITY OFFICE BY APPOINTMENT.

TRAFFIC IS TO BE MAINTAINED OVER THE GOULD ST BRIDGE BY PART-WIDTH CONSTRUCTION.

OAKWOOD PEDESTRIAN STRUCTURE WILL BE CLOSED FOR DURATION OF PROJECT PER MAINTAINING TRAFFIC SPECIAL PROVISION

CONTACTS

CITY OF OWOSSO ATTN: CLAYTON WEHNER, P.E. 301 WEST MAIN

OWOSSO, MI 48867 PHONE: (989) 725-0551

EMAIL: CLAYTON.WEHNER@CI.OWOSSO.MI.US

CONSUMERS ENERGY (GAS) ATTN: ADAM BERTRAM OFFICE: (517) 374-2375 CELL: (517) 614-8570

EMAIL: ADAM BERTRAM@CMSENERGY.COM

CONSUMERS ENERGY (ELECTRIC) ATTN: TRACY MAHAR PHONE: (989) 729-3250

EMAIL: TRACY.MAHAR@CMSENERGY.COM

CHARTER COMMUNICATIONS (INTERNET) ATTN: MARK KELLY PHONE: (989) 233-9404 EMAIL: MARK.KELLY@CHARTERCOM.COM MISCELLANEOUS QUANTITIES - GOULD ST BRIDGE (STR 9892)

0.5 LSUM Mobilization, Max 10% (STR 9892)

1 LSUM Traffic Control

MISCELLANEOUS QUANTITIES - OAKWOOD AVE PED BRIDGE

0.5 LSUM Mobilization, Max 10% (Oakwood Ave)

Ea Barricade, Type III, High Intensity, Double Sided, Lighted, Furn

Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

1 LSUM Slope Restoration, Modified

	FINAL PLAN REVISIONS				
NO.	DATE	AUTH	DESCRIPTION		



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Tel. 989-754-4717 Fax. 989-754-4440
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I PR	OJECT NO:	134702SG2023	
TE:	FEBRUARY, 2024		
E:	DB-1247-2 NOTE.	DWG	

CS:

JN:



SITUATION PLAN

IOTES:

THE ORIGINAL DESIGN LOADINGS FOR THIS STRUCTURE ARE UNKNOWN. THE CURRENT USE FOR THIS STRUCTURE IS FOR PEDESTRIAN ACCESS.

THE REHABILITATION DESIGN IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION PEDESTRIAN LOADING OF 90PSF AND A MAINTENANCE VEHICLE H10 LOADING NOT ACTING CONCURRENTLY. THE CONTRACTOR SHALL NOT EXCEDE THESE LIVE LOADS WITHOUT APPROVAL FROM THE ENGINEER.

OAKWOOD PEDESTRIAN STRUCTURE SHALL BE CLOSED TO ALL PEDESTRIANS DURING CONSTRUCTION PER MAINTAINING TRAFFIC SPECIAL PROVISION

CONTRACTOR RESPONSIBLE TO KEEP STAGING AREA SECURE

FINAL PLAN REVISIONS

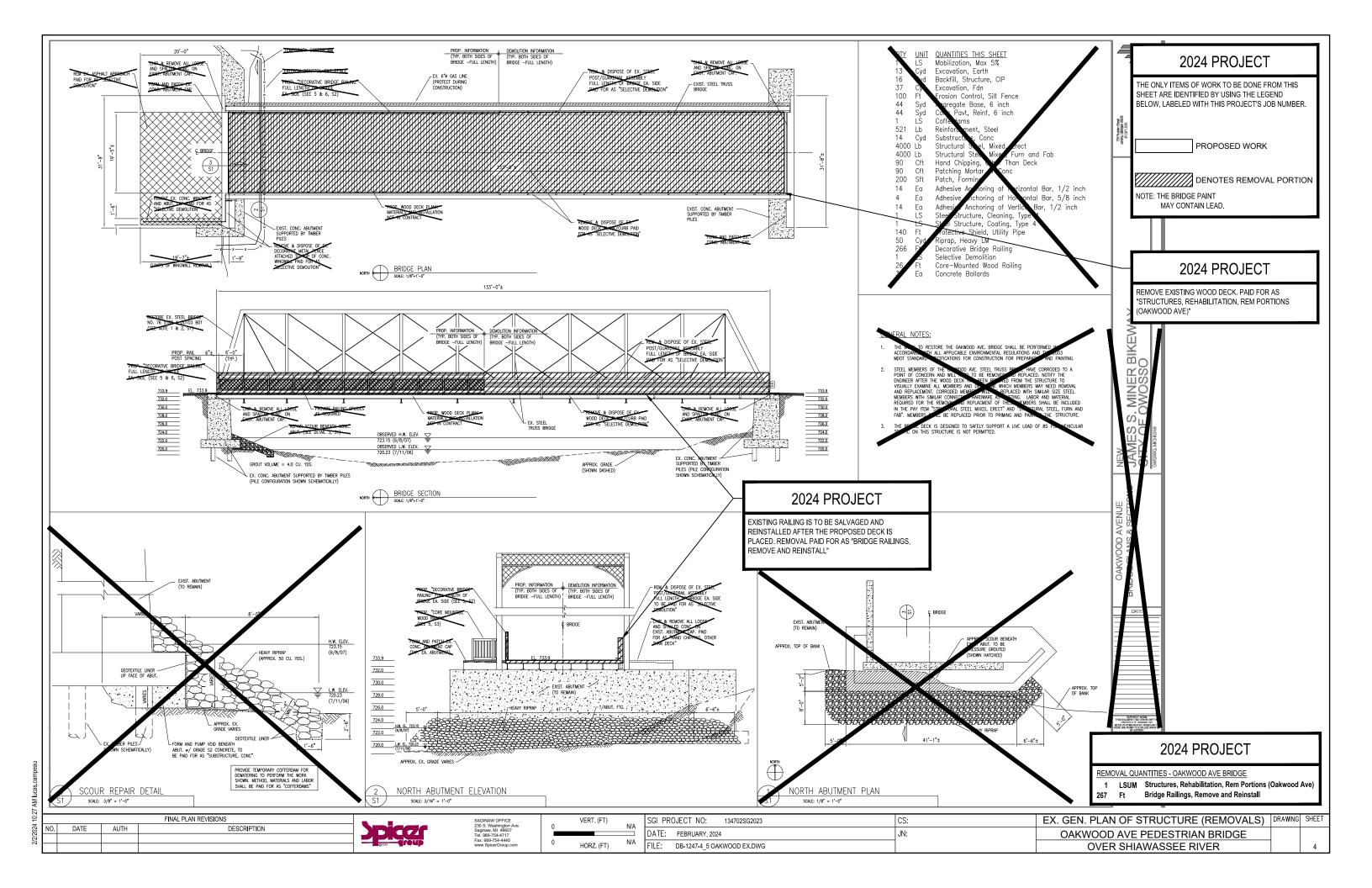
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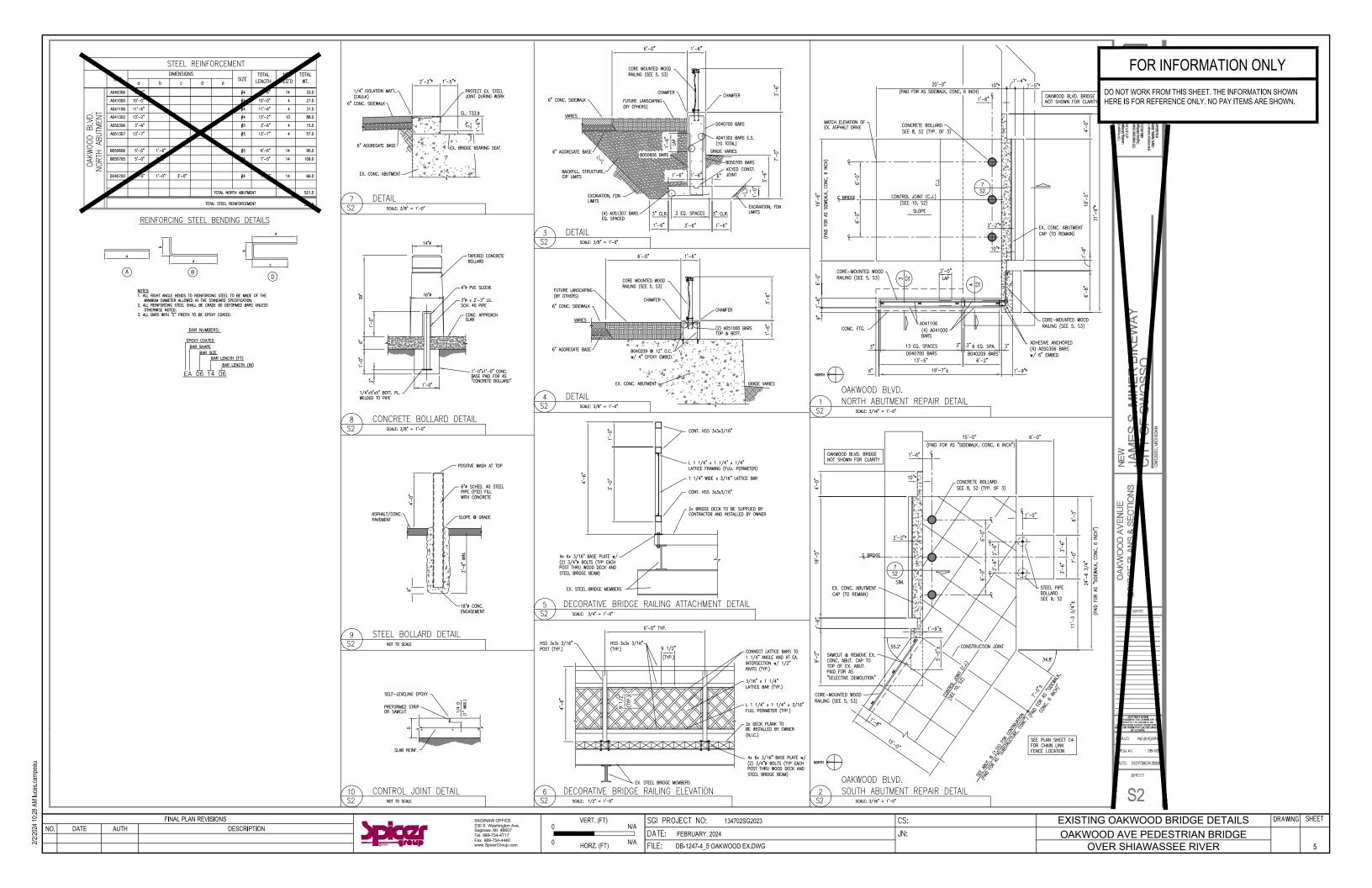
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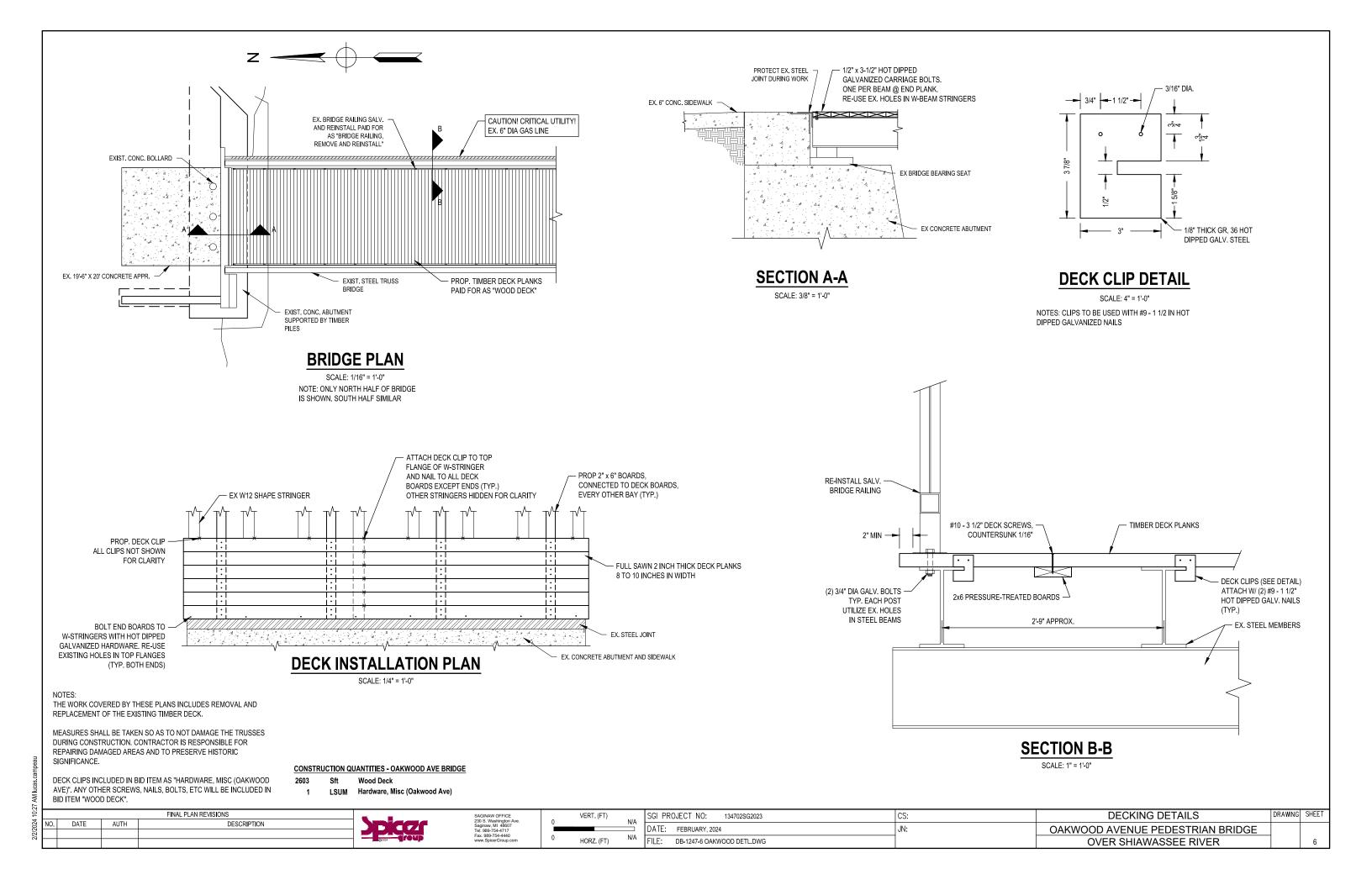
SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com

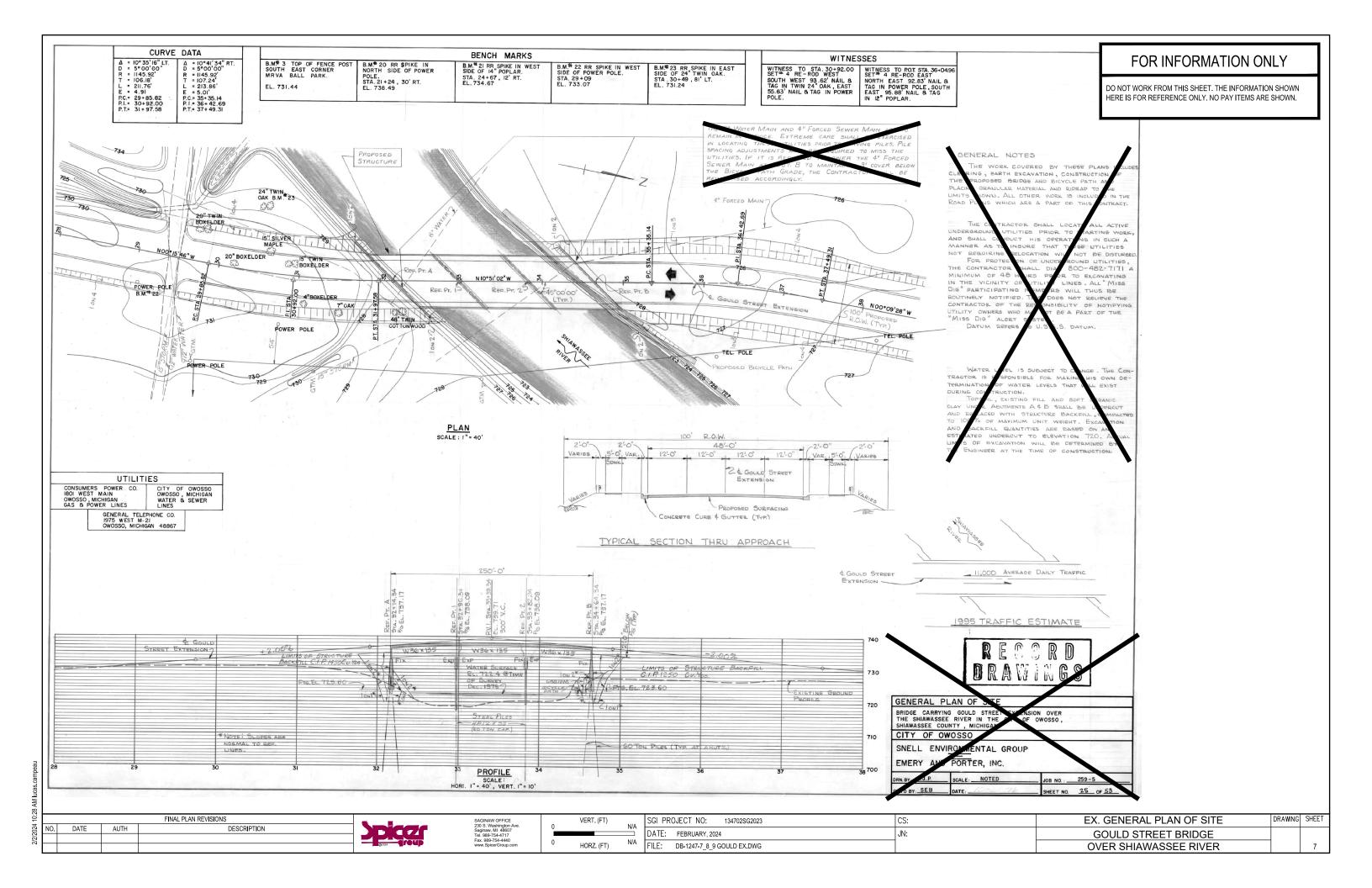
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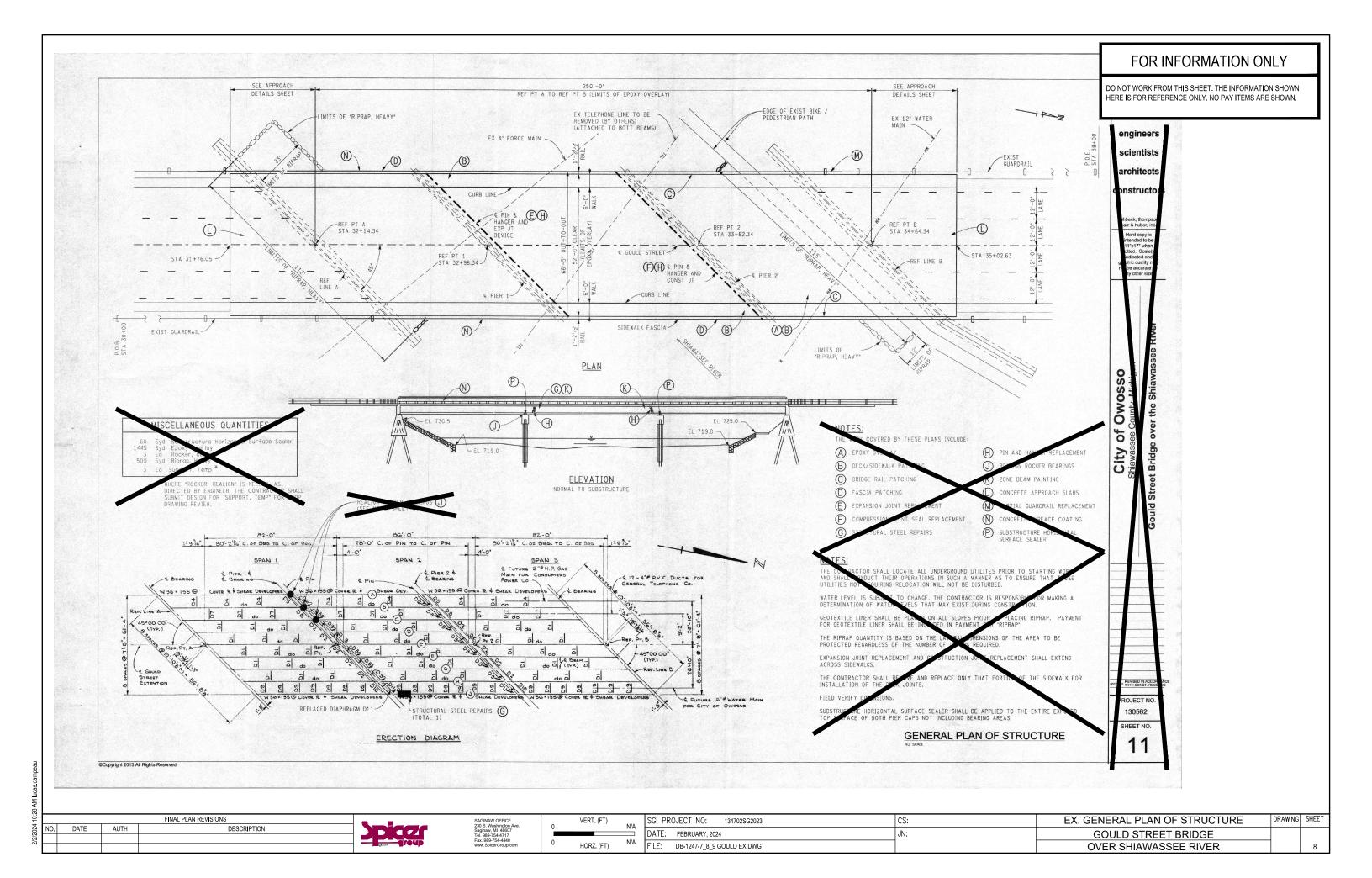
SGI PROJECT NO: 134702SG2023	CS:	SITUATION PLAN	DRAWING	SHEET
DATE: FEBRUARY, 2024	JN:	OAKWOOD AVENUE PEDESTRIAN BRIDGE		
FILE: DB-1247-3 SITUATION PLAN.DWG		OVER SHIAWASSEE RIVER		3

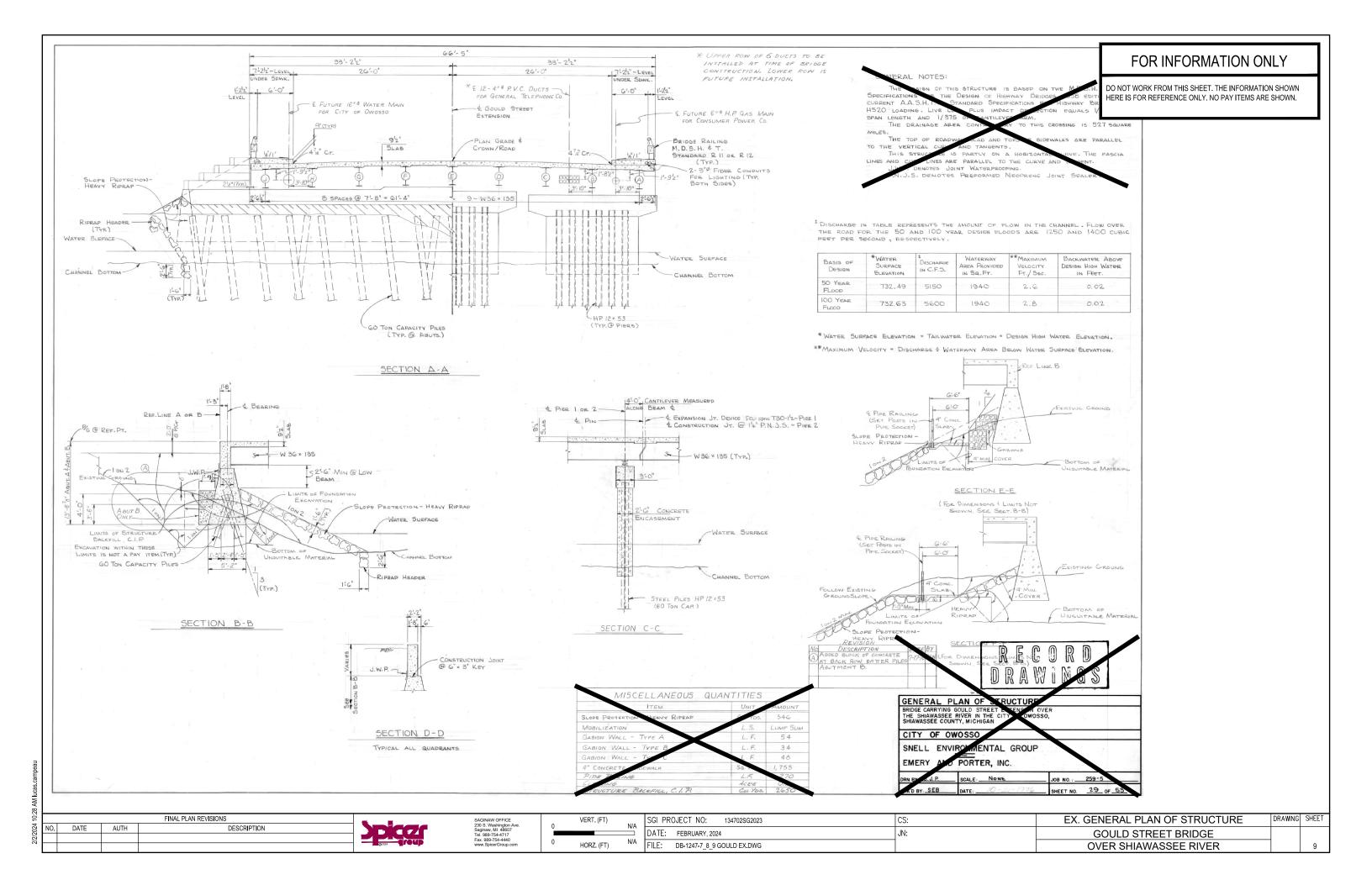


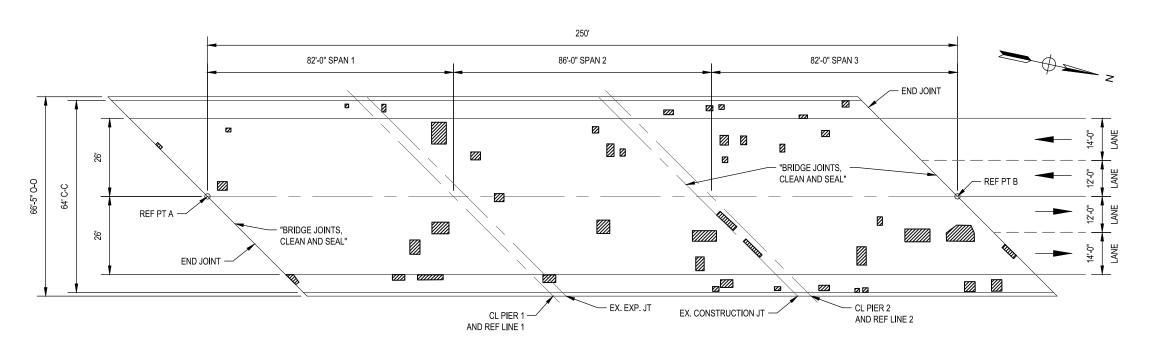






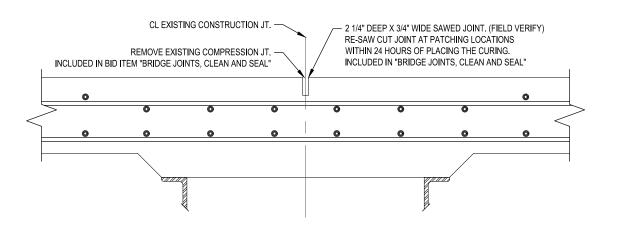






DECK PLAN VIEW

INDICATES SPALLED OR DELAMINATED AREAS
AS DETERMINED BY FIELD INSPECTION



CONSTRUCTION JOINT SECTION

3/4" MIN.

1/4"

POLYURETHANE OR
POLYURETHANE HYBRID
JOINT SEALING COMPOUND

DECK CON. JOINT AND END JOINT SEAL DETAIL

NOTES:

THE WORK COVERED BY THESE PLANS INCLUDES DECK PATCHING, EPOXY OVERLAY REPAIRS, CONCRETE SURFACE COATING, SIDEWALK HEALER/SEALER, AND JOINT RESEALING

APPLY CONCRETE SURFACE COATING TO THE ENTIRE CONCRETE PORTION OF BRIDGE BARRIER, INCLUDING BRUSH BLOCK, DECK AND SIDEWALK FASCIAS. THE ESTIMATED AREA OF COATING IS 475 SYD

IF CONCRETE PATCHING IS NOT REQUIRED AFTER THE EPOXY OVERLAY IS REMOVED, REMOVAL WILL BE PAID FOR BY "EPOXY OVERLAY, REM". AREAS OF EPOXY OVERLAY REMOVAL AND CONCRETE PATCHING TO BE DETERMINED BY THE ENGINEER.

CONCRETE RAIL PATCHING SHALL ONLY BE PERFORMED IF REBAR IS EXPOSED AFTER SCALING HAS BEEN COMPLETED.

APPLY LOW TEMPERATURE PROTECTION OF CONCRETE ACCORDING TO SECTION 706.03.J OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION IF NECESSARY. LOW TEMPERATURE PROTECTION OF CONCRETE IS INCLUDED IN RELATED ITEMS OF WORK

CONSTRUCTION JOINT RESEALING SHALL EXTEND ACROSS SIDEWALKS

LIMITS OF "PENETRATING HEALER/SEALER, BRIDGE DECK" SHALL BE APPLIED TO BRIDGE SIDEWALK TOP SURFACE FROM REF LINE A TO REF LINE B

CONSTRUCTION QUANTITIES - STR 9892

48	Syd	Hand Chipping, Deep
40	C#	Hand Chinning Other Than

10 Cft Hand Chipping, Other Than Dec

3 Syd Epoxy Overlay, Rem

470 Sft Patching Conc, Modified

26 Syd Epoxy Overlay

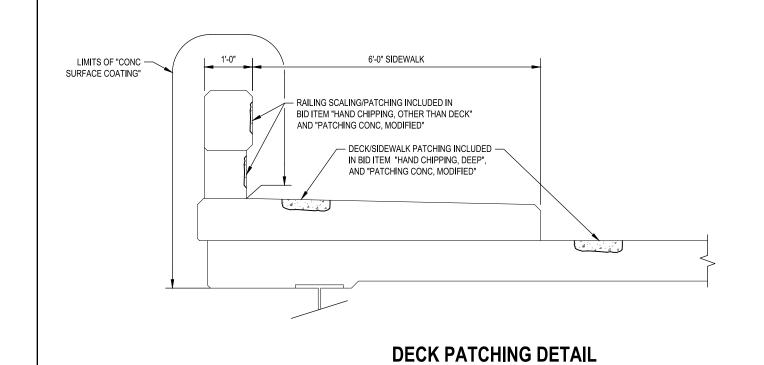
350 Syd Penetrating Healer/Sealer, Bridge Deck

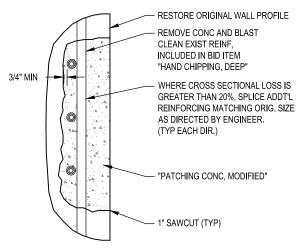
282 Ft Bridge Joints, Clean and Seal

475 Syd Conc Surface Coating

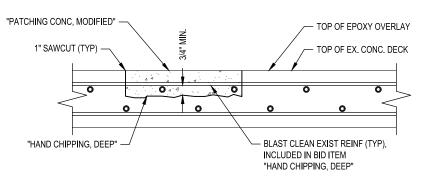
50 Lb Reinforcement, Steel, Epoxy Coated

	FINAL PLAN REVISIONS			AW OFFICE VERT. (FT)	SGI PROJECT NO: 134702SG2023	CS:	STRUCTURAL DETAILS	DRAWING SHEET
NO	DATE AUTH	DESCRIPTION	230 S. W Saginaw Tel. 989-	Washington Ave. w, MI 48607 9-754-4717 39-754-4440 0 N/Δ	DATE: FEBRUARY, 2024	JN:	GOULD STREET BRIDGE	
			Fax. 989 www.Spi	nicerGroup com UOD7 /ET\ 1971 IL	FILE: DB-1247-10_11 GOULD DETL.DWG]	OVER SHIAWASSEE RIVER	10





VERTICAL PATCHING DETAIL



DECK PATCHING DETAIL

NOTE: PROP. EPOXY OVERLAY TO BE PLACED ATOP PATCHING LOCATIONS. OVERLAP 2" MIN. ONTO EXIST. EPOXY OVERLAY

	FINAL PLAN REVISIONS									
NO.	NO. DATE AUTH		DESCRIPTION							

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NOTE: SCALE RAILING AND PATCH ONLY AREAS WITH EXPOSED REINFORCEMENT OR AT DIRECTION OF ENGINEER

AGINAW OFFICE VERT. (FT)
0 S. Washington Ave.
ginaw, MI 48807
1.989-754-4717
2. Wash 754-4440
w. SpicerGroup.com
0 HORZ. (FT)

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FILE: DB-1247-10_11 GOULD DETL.DWG		OVER SHIAWASSEE RIVER		11