

GOVERNING SPECIFICATIONS
THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. (AVAILABLE AT: http://www.dot.state.mn.us/pre-letting/spec/)
THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION 2017 EDITION STANDARD CONSTRUCTION SPECIFICATIONS SHALL APPLY.
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED "LATEST EDITION". (AVAILABLE AT: http://www.dot.state.mn.us/trafficeng)
HE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38–02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
INDEX
SHEET No. DESCRIPTION
1 TITLE SHEET 2 GENERAL NOTES & STATEMENT OF ESTIMATED QUANTITIES 3 GENERAL PLAN, ELEVATION & SCOPE OF WORK 4 GRATING REPLACEMENT PLAN 5 GRATING REPLACEMENT TRANSVERSE SECTION 6 GRATING REPLACEMENT LONGITUDINAL SECTION 7-9 TRAFFIC CONTROL 10 AS BUILT BRIDGE DATA
THIS PLAN CONSISTS OF 10 SHEETS
T(CURRENT YEAR) 2017 $\overline{7699}$ HEIGHT OF OBJECT =2.0 FT.T(FUTURE YEAR) 20379239HEIGHT OF EYE =3.5 FT.ADT(CURRENT)FUNCTIONAL CLASSIFICATION: URBAN COLLECTORADT(FUTURE)RUCTURE DESIGN9(L)IL FACTOR130SIGN SPEED30
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
PROJECT ENGINEER
JOSEPH D. LITMAN 08/14/2017 21833 PROJECT ENGINEER (TYPED OR PRIVITED NAME) DATE LIC. No.
CITY APPROVALS:
APPROVED CHEF ENGINEER OF TRANSPORTATION
APPROVED DEARE ENGINEER OF UTILITIES EL LA TE
APPROVED CITY ENGINEER
STATE AD APPROVALS:
DISTRICT STATE AU ENGINEER: REVENED FOR CONFLIANCE DATE
STATE ND ENGINEER: APPROVED FOR STATE AND ENGINEER: APPROVED FOR STATE AND FUNDING DATE
SHEET 1 OF 10 SHEETS
SHELL I OF TO SHEETS

GENERAL NOTES:

DESIGN SPECIFICATIONS:

- THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

MISCELLANEOUS:

- DIMENSIONS SHOWN ON EXISTING DETAILS ARE TAKEN FROM AVAILABLE PLANS, SUPPLEMENTED BY LIMITED FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS. ELEVATIONS AND EXISTING DETAILS NECESSARY FOR THE COMPLETION OF ALL WORK BY FIELD MEASUREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF AND SHALL NOT COMMENCE ANY FABRICATION UNTIL THE NECESSARY MEASUREMENTS ON THE ACTUAL STRUCTURE HAVE BEEN MADE AND SUBMITTED SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER. SHOP DRAWINGS SHALL STATE THAT THE CONTRACTOR HAS VERIFIED THE EXISTING DIMENSIONS.
- DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL NOT DAMAGE OR CONTAMINATE ANY EXISTING ITEMS WHICH ARE TO REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS TO REMAIN SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE CITY.

MARINE CLOSURES/IMPACTS:

- SEE SPECIAL PROVISIONS FOR PERMITTED BRIDGE MARINE CLOSURE PERIOD AND REQUIRED WORK PERIOD.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE CONSTRUCTION STAGING SEQUENCE AND GET WRITTEN APPROVAL PRIOR TO BEGINNING WORK.

MAINTENANCE AND PROTECTION OF TRAFFIC:

- ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MUTCD, INCLUDING THE FIELD MANUAL "LATEST EDITION".
- THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL VEHICULAR AND PEDESTRIAN TRAFFIC FOR THE DURATION OF THE PROJECT. ALL WORK SHALL BE COORDINATED SO AS TO MINIMIZE DISRUPTION TO VEHICULAR, PEDESTRIAN AND MARINE TRAFFIC. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
- ANY NECESSARY ROADWAY CLOSURES OVER 10 MINUTES IN DURATION SHALL BE SCHEDULED WITH AND APPROVED BY THE CITY IN ADVANCE, ALL OTHER PROVISIONS FOR MAINTENANCE AND PROTECTION OF TRAFFIC ARE PROVIDED BY THE SPECIFICATIONS.
- DURING CONSTRUCTION THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE MATERIALS, DEBRIS, AND OTHER MATERIALS TO THE AREAS ADJACENT TO THE BRIDGE. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE CITY/STATE.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL ACCESS EQUIPMENT, PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE APPROPRIATE ITEMS OF THE CONTRACT.

STRUCTURAL NOTES:

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS AS SHOWN IN THE PLANS AND SPECIFIED IN THE SPECIAL PROVISIONS.
- FOLLOWING FIELD DIMENSION VERIFICATION CONTRACTOR SHALL SUBMIT GRATING SHOP DRAWINGS FOR APPROVAL TO ENGINEER PRIOR TO FABRICATION/ORDERING OF GRATING
- GRATING SHALL BE GALVANIZED PER MnDOT SPEC 3394.
- WELDING SHALL MEET REQUIREMENTS OF MnDOT SPEC 2402.

STATEMENT OF ESTIMATED QUANTITIES								
	ID EM	SPEC. NO.	ITEM	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY		
	1	2021.501	MOBILIZATION	LUMP SUM	1			
	2	2104.501	REMOVE STEEL BEAMS	LIN FT	48 (P)			
	3	2402.521	STRUCTURAL STEEL (3309)	POUND	1270 (P)			
	4	2402.618	BRIDGE DECK GRATING	SQ FT	1205 (P)			
ļ	5	2433.505	REMOVE SUPERSTRUCTURE	SQ FT	1205 (P)			
(6	2478.502	ORGANIC ZINC-RICH PAINT SYSTEM (SHOP)	SQ FT	145 (P)			
-	7	2563.601	TRAFFIC CONTROL	LUMP SUM	1			

NOTES:

- FLOORBEAM FLANGE AND TRANSVERSE SHIM FOLLOWING WELDING.
- SECONDARY SHIMS AND/OR DECK GRATING.
- RECIEVE PROPOSED SECONDARY SHIMS AND/OR DECK GRATING.
- FOR APPROVAL

 - (P) INDICATES PLAN QUANTITY.

- V.I.F. = VERIFY IN FIELD

STANDARD PLATES								
THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.								
PLATE NUMBER	DESCRIPTION							
8000J	CHANNELIZERS							
8337C	TEMPORARY PORTABLE PRECAST BARRIER							

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State Aid Proj. No. 118-140-032	NAME:	

① INCLUDES THE REMOVAL OF THE IN PLACE TRANSVERSE DECK GRATING SHIMS AT BOTH THE NORTH AND SOUTH INTERMEDIATE FLOORBEAMS AND GRINDING/CLEANING OF THE TOP OF THE IN PLACE TRANSVERSE FLOORBEAM TO RECEIVE PROPOSED DECK GRATING

(2) WEIGHT INCLUDES THE TRANSVERSE DECK GRATING SHIM TO BE FUNRISHED AND INSTALLED ON TOP OF THE NORTH AND SOUTH INTERMEDIATE FLOORBEAMS. INCIDENTAL TO THIS WORK SHALL BE THE TOUCH UP PAINTING TO THE TOP OF THE INTERMEDIATE

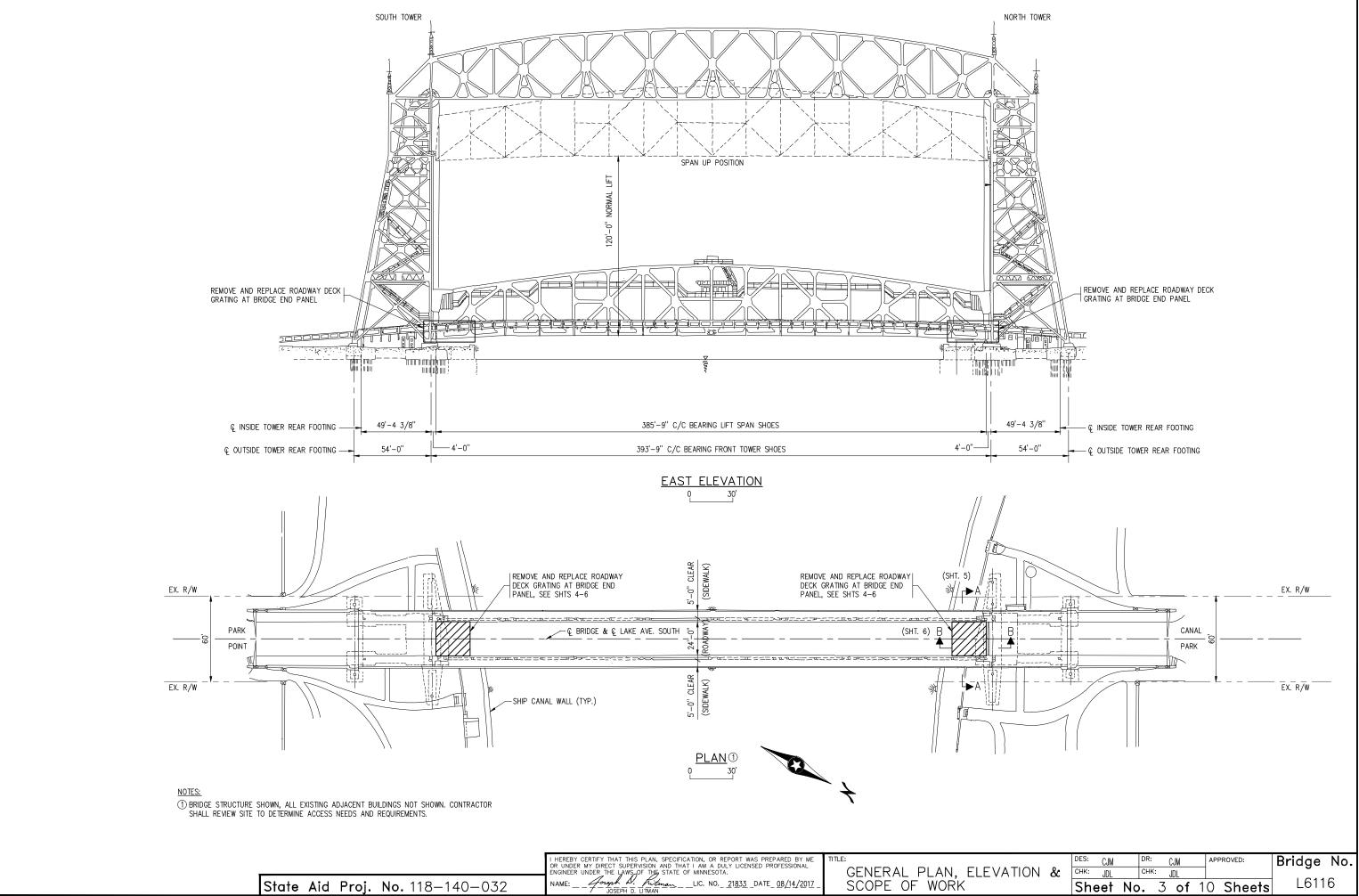
(3) FURNISHING AND INSTALLATION OF THE PROPOSED DECK GRATING AS DETAILED IN THE PLAN INCLUDING EXPANSION GAP PLATE AT NORTH END AND 1 1/2 X 1 1/2 ANGLE AT THE SOUTH END. WORK SHALL INCLUDE, BUT NOT LIMITED TO, FURNISHING AND INSTALLING PROPOSED DECK GRATE, FURNISHING AND INSTALLING SECONDARY SHIMS WHERE REQUIRED TO PROVIDE POSITIVCE CONTACT AT ALL SUPPORT POINTS AND PROPER CROSS SLOPE OF THE BRIDGE, AND ALL WELDING TO INSTALL THE GRATING AND

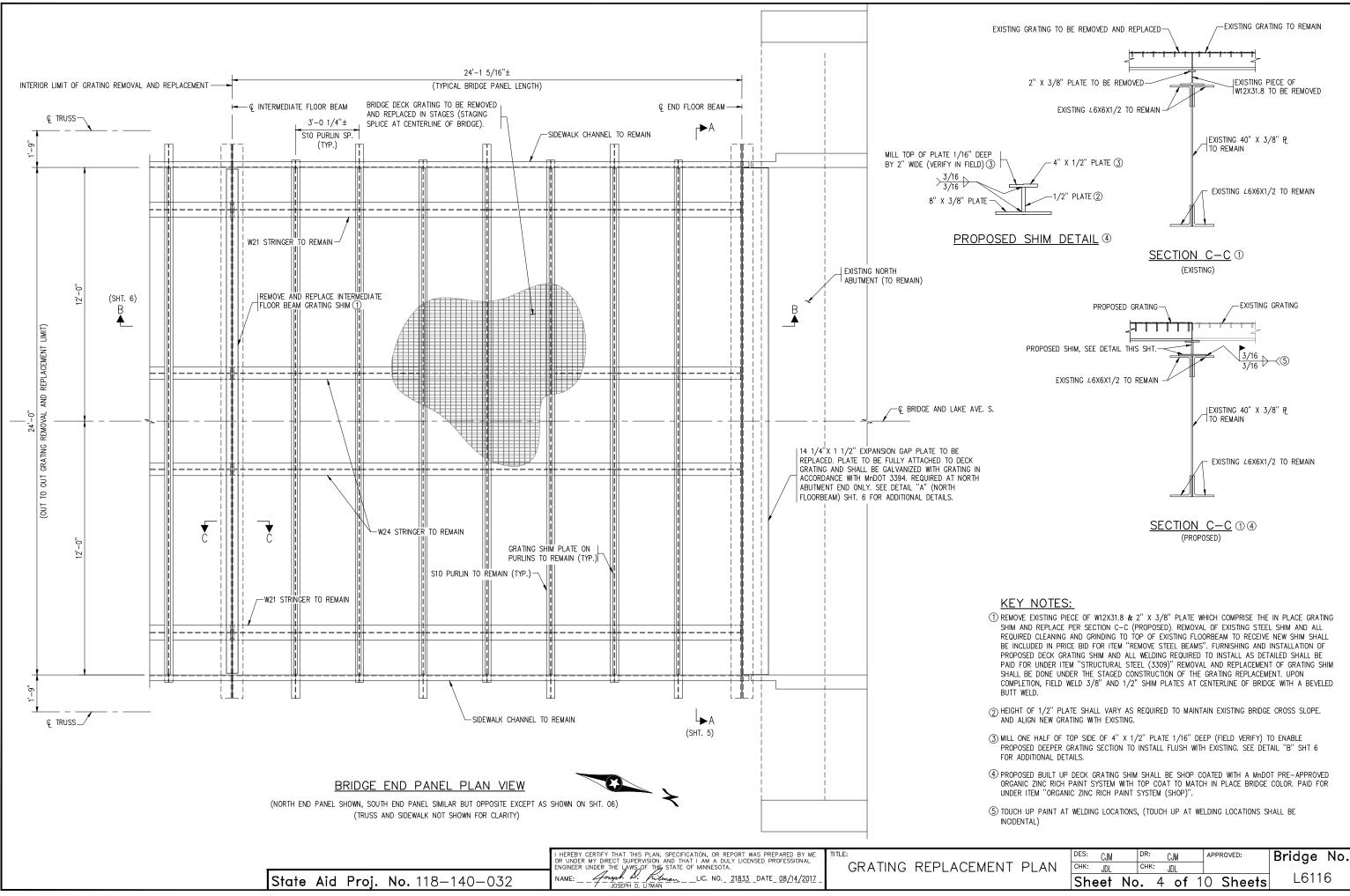
() WORK SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE IN PLACE DECK GRATING TO THE LIMITS AS SHOWN IN THE PLAN. ADDITIONALLY WORK SHALL INCLUDE THE GRINDING CLEAN OF THE TOPS OF THE END FLOORBEAMS AND PURLIN SHIM PLATES TO

(5) "ORGANIC ZINC RICH PAINT SYSTEM (SHOP)" SHALL BE A SHOP APPLIED PAINT SYSTEM SELECTED FROM MnDOT'S APPROVED PRODUCT LIST AND THE TOP COAT SHALL MATCH IN PLACE BRIDGE PAINT COLOR. SUBMIT TOP COAT COLOR SAMPLE TO ENGINEER

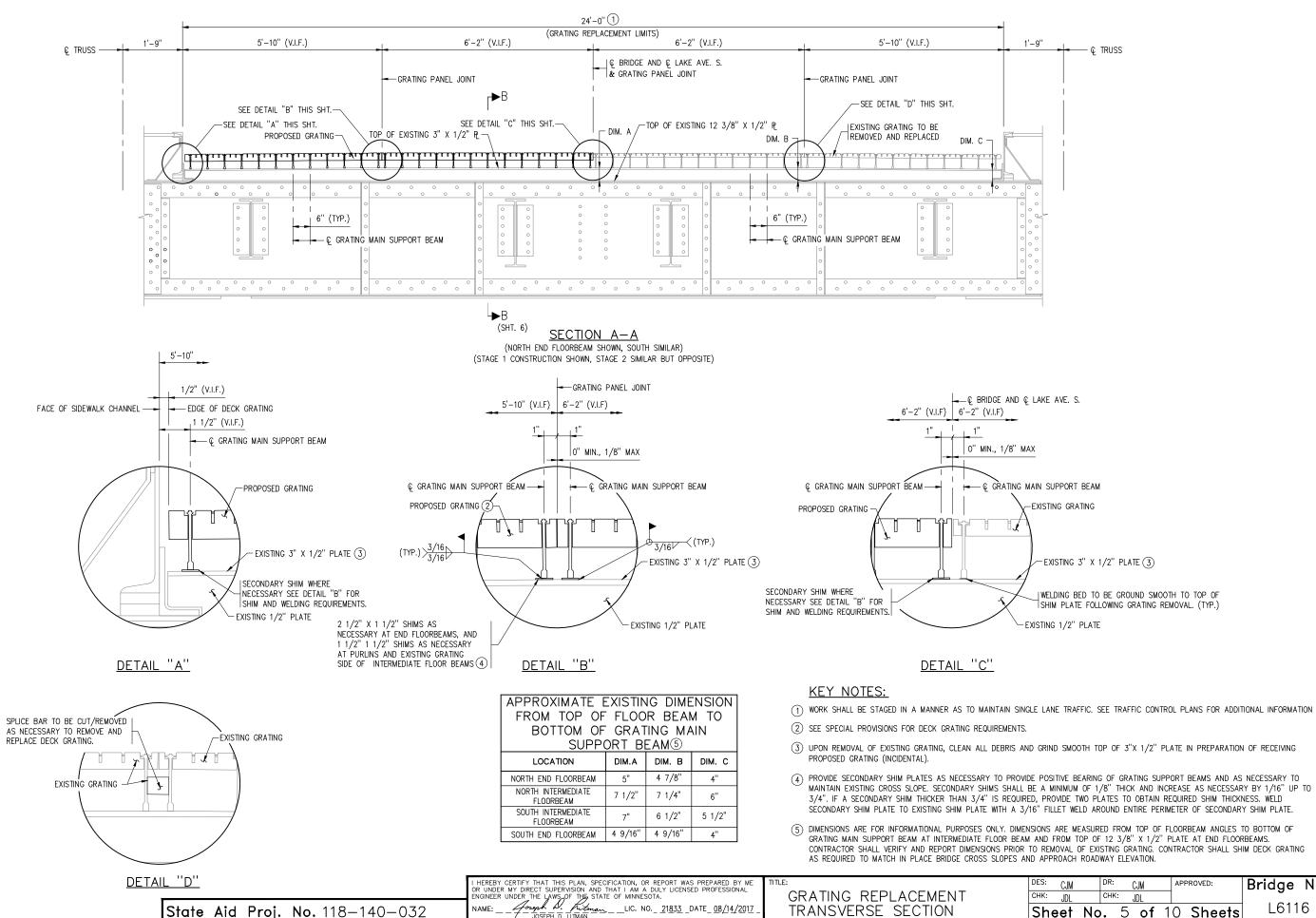
- WITHIN THE PLAN, WHEREVER THE WORD INCIDENTAL IS USED IT SHALL MEAN NO DIRECT PAYMENT WILL BE MADE FOR THAT ITEM

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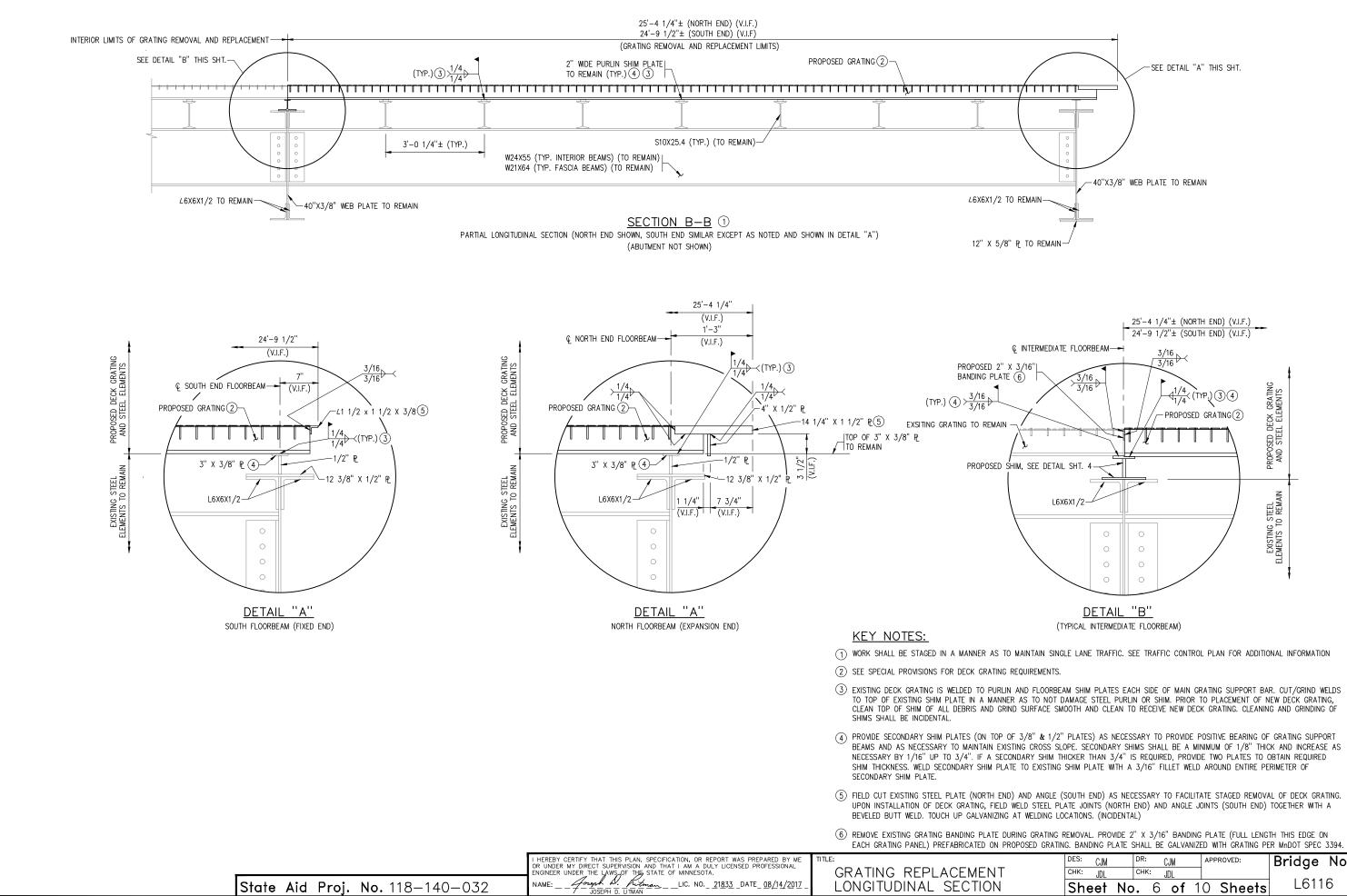




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TRAFFIC - BILL OF MATERIALS (1)

THE FOLLOWING ITEMS ARE INCLUDED AND PAID FOR UNDER

	C. 2563.601 TRAFFIC CON		AD FOR UND	EK
SIGN NO.	DEVICE	SIZE (2)	NO. REQ'D.	NOTES
R9-9	SIDEWALK CLOSED	BLACK ON WHITE	2	
R10-6 (LEFT)	STOP HEE N RED	BLACK ON WHITE	2	
R11-X2	SIDEWALK CLOSED USE OTHER SIDE OF STREET	48"X24" BLK. ON WHITE	2	4
W3-3		36"x36" BLK., RED & GREEN ON YELLOW	2	3
W20-9	BRIDGE WORK AHEAD	36''x36'' BLK. ON ORANGE	2	
W20-4	ONE LANE ROAD AHEAD	36''x36'' BLK. ON ORANGE	2	
TRAFFIC BARRIER		12'-6"	28	7
STEEL TRAFFIC BARRIER		27'-0"	2	5
TYPE A Flashers	-ф-	YELLOW	6	
TYPE III Barricade		6' ORANGE & WHITE	2	
PLASTIC DRUM		WHITE ON ORANGE	15	6

KEY NOTES:

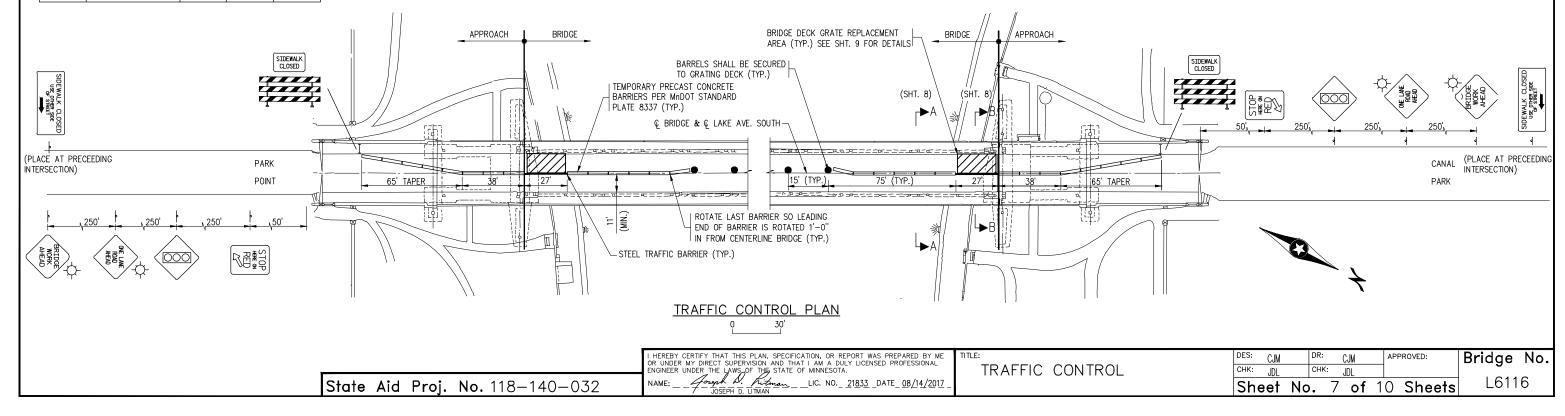
- ① POSTS, WEIGHTS AND HARDWARE REQUIRED FOR SIGN PLACEMENT ARE INCIDENTAL ITEMS.
- (2) ALL SIGN PANEL DIMENSIONS ARE IN INCHES.
- 3 existing traffic signal on bridge to be operated by City bridge personnel.
- (4) ONE WITH LEFT ARROW AND ONE WITH RIGHT ARROW
- (5) SEE SHTS. 8 & 9 FOR DETAILS.
- $(\widehat{\mathbf{6}})$ drum to be positively anchored/wired to in place deck grating.
- O precast concrete barriers shall be pinned together

TRAFFIC CONTROL NOTES

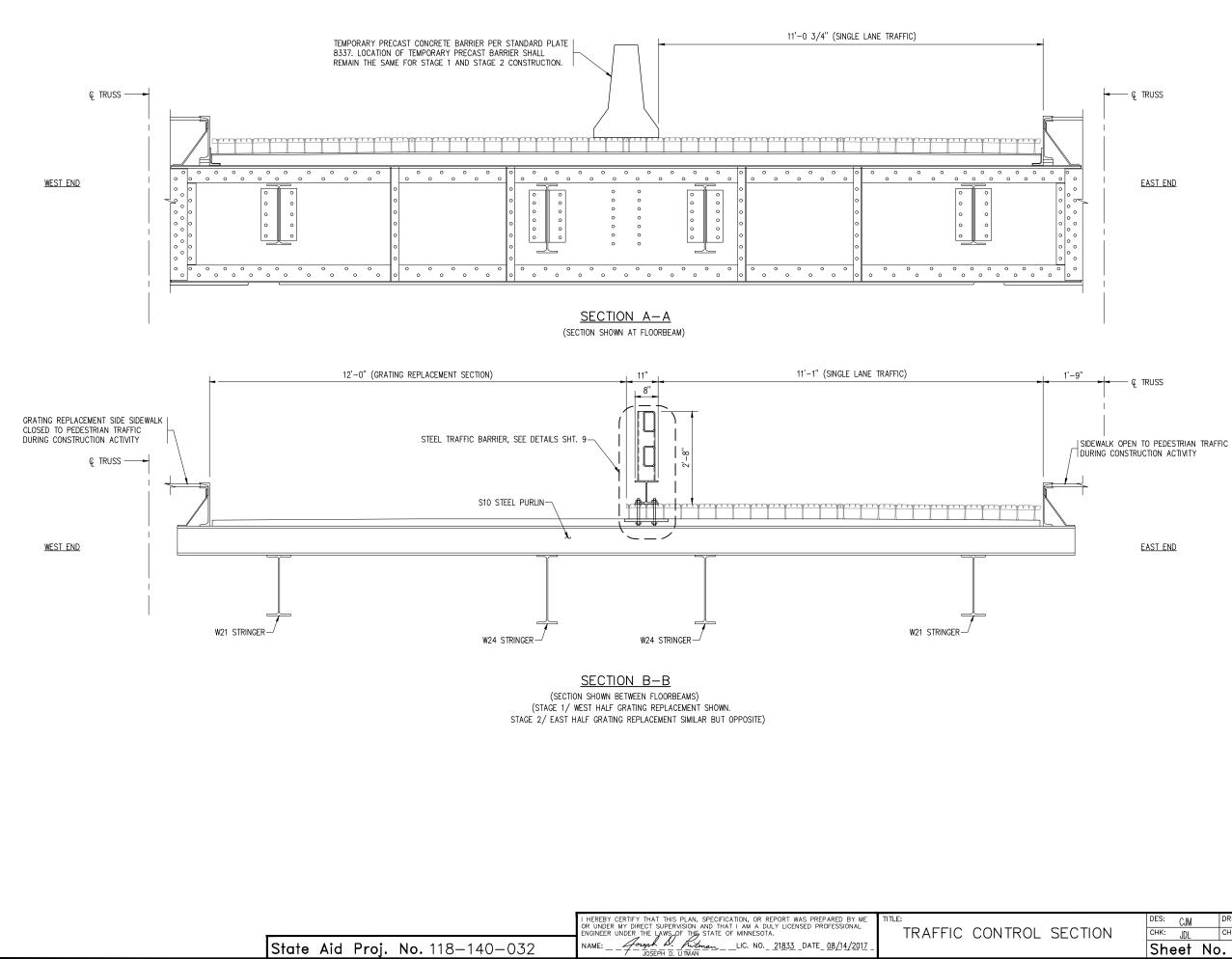
- ♦ ALL SIGNING INDICATED ON THIS TRAFFIC CONTROL PLAN, EXCEPT THOSE SIGNS WHICH ARE INPLACE, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL APPROPRIATE SIGNING, INCLUDING INPLACE SIGNS, SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE LIFE OF THE CONTRACT.
- ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO, AND BE PLACED IN ACCORDANCE WITH, THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MMUTCD) INCLUDING PART VI AND THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS (CURRENT VERSION), THE MINNESOTA STANDARD SIGNS MANUALS PARTS I, II, AND III AND THE APPROPRIATE MATERIAL SPECIFICATIONS.
- THE CONTRACTOR SHALL RECEIVE COMPENSATION FOR ALL WORK DESCRIBED HEREIN ON THE BASIS OF A LUMP SUM PAYMENT FOR ITEM "TRAFFIC CONTROL".
- ★ THE CONTRACTOR SHALL PLACE ADEQUATE PRECAST BARRIERS, WARNING SIGNS, AND BARRICADES WITHIN THE CONSTRUCTION ZONE TO PROTECT VEHICULAR TRAFFIC AND PEDESTRIAN TRAFFIC FROM CONSTRUCTION OPERATIONS. ADDITIONAL SIGNING MAY INCLUDE, BUT IS NOT LIMITED TO BUMP, DIP, SIDEWALK CLOSED, ETC. THE NUMBER AND PLACEMENT OF TRAFFIC CONTROL DEVICES SHALL BE DETERMINED BY THE SEQUENCE OF THE CONTRACTORS OPERATIONS. TRAFFIC CONTROL DEVICES MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED AS SOON AS THEY ARE NO LONGER REQUIRED OR APPROPRIATE.
- (6) THE INITIAL CONSTRUCTION SIGNING (BRIDGE WORK AHEAD) SHALL BE ERECTED PRIOR TO ANY CONSTRUCTION OPERATIONS.
- TYPE A (LOW INTENSITY) FLASHERS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED ON TYPE III BARRICADES AND ADVANCED WARNING SIGNS WHEN USED AT NIGHT, OR TO IDENTIFY HAZARDS, AND AS DETAILED IN THIS TRAFFIC CONTROL PLAN. ADDITIONAL FLASHERS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED ON SIGNS, AND BARRICADES AS NEEDED OR AS DIRECTED BY THE ENGINEER FOR TRAFFIC CONTROL THROUGH WORK ZONES WITHIN THE PROJECT LIMITS.

TRAFFIC CONTROL NOTES - CONT ...

- FLAGGING SHALL BE REQUIRED WHEN WORK IS AT THE EDGE OF THE DRIVING LANE, TRAFFIC IS TEMPORARILY STOPPED AND AS NEEDED TO MAINTAIN VEHICLE AND WORKER SAFETY. FLAGGING SHALL BE IN ACCORDANCE WITH THE PERTINENT LAYOUTS SHOWN IN PART VI OF THE MMUTCD, INCLUDING THE FIELD MANUAL (LATEST EDITION). ALL SUCH WORK RELATED TO FLAGGING, INCLUDING FLAG PERSONS, SHALL BE CONSTRUED TO BE INCLUDED IN THE LUMP SUM PAYMENT FOR "TRAFFIC CONTROL".
- TRAFFIC CONTROL LAYOUT AS SHOWN IS TO FACILITATE A LANE CLOSURE ON THE WEST SIDE OF STRUCTURE. TRAFFIC CONTROL FOR OTHER WORK TYPES/PHASES SHALL BE SIMILARLY DETAILED BY CONTRACTOR AND PROPOSED IN ADVANCE. NO ADDITIONAL COMPENSATION OR PAYMENT BEYOND SINGLE PAYMENT FOR ITEM "TRAFFIC CONTROL" WILL BE MADE FOR REMOVING AND RESETTING ANY TRAFFIC CONTROL SIGNS/DEVICES OR FOR FURNISHING AND PLACING ADDITIONAL SIGNS/DEVICES.

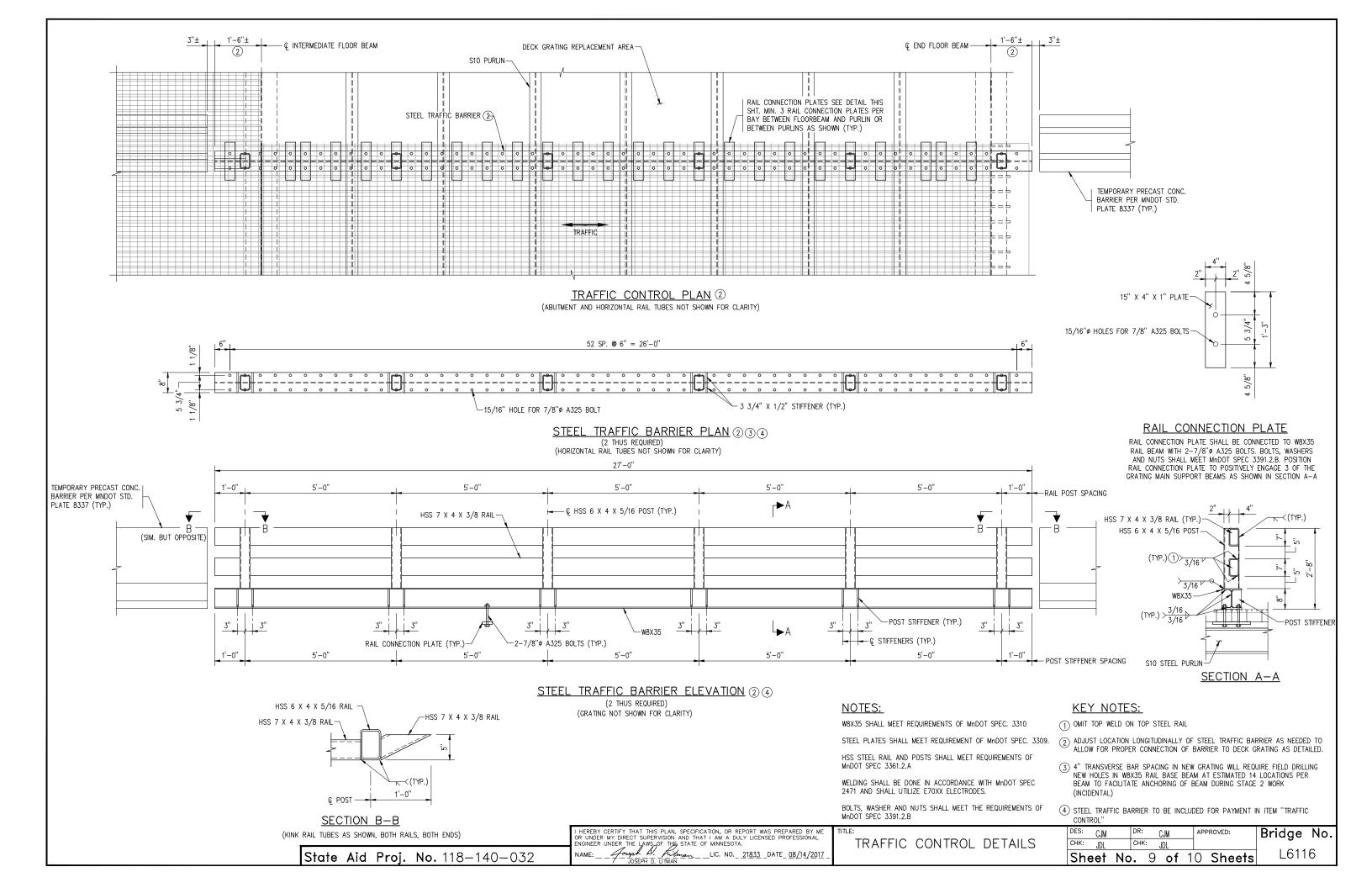






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WEARING COURSE	PAINT SYSTEM	OTHER ITEMS ①
		① UTILITIES ADDED DURING CONSTRUCTION AND SPECIALTY ITEMS.
—	2478 OR 2479 OR OTHER	FINAL QUANTITIES ENTERED ON SCHEDULE OF QUANTITIES: YES NO
OTHER TYPE OR MANUFACTURER	MANUFACTURER	REMOVE & PATCH QUANTITIES (SF) CONCRETE SURFACE CLEAN & PAINT TYPE A: TYPE B: TYPE D: TYPE E: TYPE F: REPAIR (SF) REINF. (SF)
EXPANSION JOINTS	MnDOT MATERIAL SPECIFICATION NUMBER	
JOINT MANUFACTURER	INTERMEDIATE COAT	
MANUFACTURER'S IDENTIFICATION	FINISH COAT	
GLAND MANUFACTURER	PLAN QUALITY	
	RATE 1 (AGREE), 2 (NEUTRAL), OR 3 (DISAGREE, PLEASE COMMENT BELOW)	
SIZE OF GLAND		
MANUFACTURER'S IDENTIFICATION	DIMENSIONING AND DETAILING ADEQUATELY DESCRIBED REQUIRED CONSTRUCTION.	
MINE NO. AND/ON LETTER DESIGNATION FOR DEAD	SCALE OF DRAWINGS AND OVERALL LEGIBILITY OF LINES AND TEXT WAS GOOD.	
ELASTOMERIC BEARING PADS	(SB) SPECIAL PROVISIONS ADEQUATELY DESCRIBED SPECIAL WORK AND PAYMENT.	SUMMARY OF SIGNIFICANT <u>AS-BUILT CHANGES</u>
	COMMENTS:	AS-DOILT CHANGES
PAD MANUFACTURER	COMMENTS:	
SPECIAL SURFACE FINISH		
PRODUCT NAME: COLOR & TEXTURE:		
FINISHING ROADWAY FACES OF BARRIER OR PARAPET	NUMBER OF BRIDGE SUPPLEMENTAL AGREEMENTS: COST: \$	
FINISHING RUADWAT FACES OF BARRIER OR PARAPET	LIST SIGNIFICANT ERRORS OR OMISSIONS IN PLAN DETAILS OR PAY QUANTITIES IN THE	
PRODUCT NAME: COLOR & TEXTURE:	SPACE PROVIDED AT RIGHT.	
	NOTIFICATION TO ADD, REMOVE, OR REHAB A STRUCTURE	
ANTI-GRAFFITI COATING	PLEASE GO TO THE FOLLOWING WEBSITE AND COMPLETE THE FORM WHEN ADDING, REMOVING OR REHABILITATING A STRUCTURE:	
	(CONTACT THE BRIDGE INVENTORY MANAGEMENT UNIT AT 651-366-4557 IF YOU HAVE QUESTIONS) - WHEN ADDING A NEW STRUCTURE - (SEND WHEN THE BRIDGE IS OPEN TO TRAFFIC)	· · · · · · · · · · · · · · · · · · ·
MANUFACTURER	http://www.dot.state.mn.us/bridge/new-structure.html - WHEN REMOVING A STRUCTURE - (SEND WHEN THE BRIDGE IS NO LONGER IN SERVICE)	
PRODUCT NAME: LOCATION:	http://www.dot.state.mn.us/bridge/remove-structure.html – WHEN REHABILITATING A STRUCTURE – (SEND WHEN THE REHABILITATION IS COMPLETE)	
	http://www.dot.state.mn.us/bridge/rehab-structure.html	
	CHANGE OF VERTICAL CLEARANCE	
	PLEASE GO TO THE FOLLOWING WEBSITE WHEN CHANGING THE VERTICAL CLEARANCE OF EXISTING BRIDGE STRUCTURE:	
	(CONTACT THE BRIDGE INVENTORY MANAGEMENT UNIT AT 651-366-4557 IF YOU HAVE QUESTIONS) http://www.dot.state.mn.us/bridge/pdf/clearanceform.pdf	
	THIS FORM IS AVAILABLE IN AN ELECTRONIC FORMAT AT:	THE AS-BUILT INFORMATION WAS ADDED TO THE PLAN BY:
	http://www.dot.state.mn.us/bridge/pdf/as-built-bridge-data-r0.xlsx	THE AS BOLL INFORMATION WAS ABBED TO THE FEAR BT.
		INSPECTOR(S) SIGNATURE DATE
		CHECKED BY:
		PROJECT ENGINEER/SUPERVISOR SIGNATURE DATE
		WHEN BRIDGE IS OPEN TO TRAFFIC, COMPLETE THIS AS-BUILT BRIDGE DATA SHEET AND SUBMIT TO THE BRIDGE OFFICE VIA EMAIL AT: BridgeForms.dot@state.mn.us.
REVISION:		FIG. 5-397.900
APPROVED: MAY 10, 2017 (AS NEEDED)	-140-032	T BRIDGE DATA DES: CIM DR: CIM APPROVED: Bridge No.
<u>Kum_WW</u>	-140-032 NAME:JOSEPH D. LITMANLIC. NO 21833 _DATE _ 08/14/2017 _	Sheet No. 10 of 10 Sheets L6116