

## GOVERNING SPECIFICATIONS

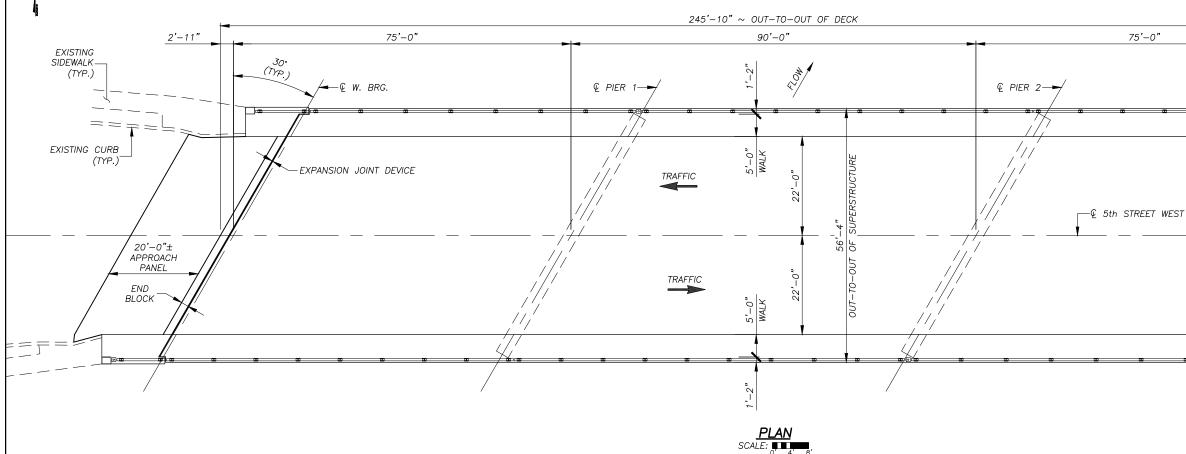
THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. SEE SPECIAL PROVISIONS FOR ALL XXXX.6XX SERIES PAY ITEMS FOR ADDITIONAL REQUIREMENTS.

### LIST OF SHEETS

NO. TITLE TITLE SHEET GENERAL PLAN BRIDGE TYPICAL SECTION & QUANTITIES 3 4-6 7-14 REMOVALS RECONSTRUCTION 15-17 BEARINGS 18-19 WATERPROOF EXPANSION DEVICE 20-22 BRIDGE APPROACH PANEL 23-24 TRAFFIC CONTROL

THIS PLAN CONTAINS 24 SHEETS.

	5th ST. WE. (C.S.A.H. 19	st ) & M.S.A.S. 108)			
FUNCTIONAL CLASSIFICATION	URBAN/MI	INOR ARTERIAL			
NO. OF TRAFFIC LANES		4			
NO. OF PARKING LANES					
DRIVING LANE WIDTH		11'			
SHOULDER WIDTH		0'			
ADT (CURRENT YEAR) 2021	;	7,912			
ADT (PROJECTED YEAR) 2041	1	1,077			
PAVEMENT DESIGN					
ESALS (20)					
R=VALUE					
SOIL FACTOR					
DESIGN SPEED	3	5 MPH			
BASED ON SIGHT DISTANCE		250'			
HEIGHT OF EYE / HEIGHT OF OBJECT	3.5	' / 2.0'			
DESIGN SPEED NOT ACHIEVED AT:					
<b>RONALD L. DOKKEN</b> DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN (SHEETS 1–24) 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.					
DATE LICE	INSE NUMB	ER <u>13931</u>			
APPROVED: CITY ENGINEER	DATE				
CITY PROJECT NO. 2021STRT-B00 Fifth Street Bridge 66505 Maintenance		BRIDGE NO.			
EET NO. 1 OF 24 SHEETS		66505			



### CONSTRUCTION NOTES

- THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. SEE SPECIAL PROVISIONS FOR ALL XXXX.6XX SERIES PAY ITEMS FOR
- ADDITIONAL REQUIREMENTS.
  THE BAR SIZES SHOWN IN THIS PLAN ARE IN U.S. CUSTOMARY DESIGNATIONS. BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH SPEC. 3301. BARS MARKED WITH THE SUFFIX "S" SHALL BE STAINLESS STEEL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

# GENERAL NOTES

- INFORMATION REGARDING THE EXISTING STRUCTURE HAS BEEN TAKEN FROM THE ORIGINAL PLANS FOR BRIDGE NO 66505, APPROVED 10-1-1963 AND THE PRIOR REHABILITATION PLANS APPROVED 6-5-1986.
  ALL ELEVATIONS SHOWN IN THIS PLAN ARE BASED ON DATA FROM FIELD SURVEY PERFORMED BY ERICKSON ENCINEERING IN APPL
- ALL FIELD CUTS AND REMOVALS SHALL BE PERFORMED
- AS DIRECTED BY THE ENGINEER IN THE FIELD. ALL REMOVALS INCLUDED IN PRICE BID FOR "STRUCTURE REMOVALS".

	LIST OF STANDARD PLATES
PLATE NO.	DESCRIPTION
8000 J	CHANNELIZERS
7000 E	INTEGRAL CURBS
7100 H	CONCRETE CURB AND GUTTER
THE ABO	OVE STANDARD PLATES, AS APPROVED BY THE F.H.W.A.,

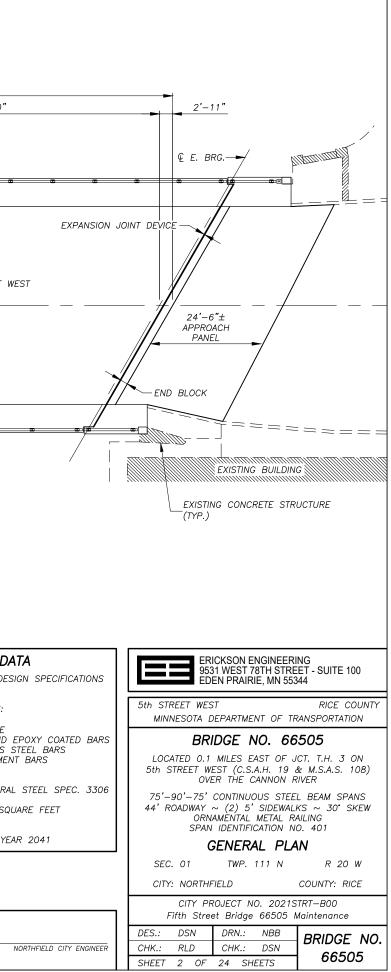
	18-19	WAL
	20-22	BRIL
	23–24	TRA
TANDARD PLATES, AS APPROVED BY THE F.H.W.A., SHALL APPLY ON THIS PROJECT.		

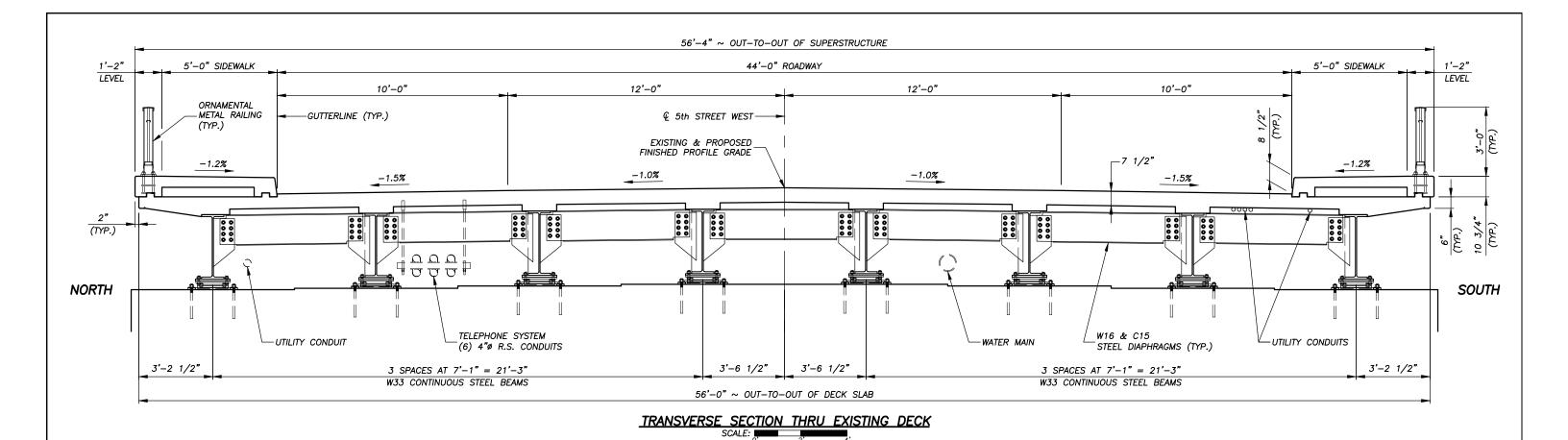
	LIST OF SHEETS
NO.	TITLE
1	TITLE SHEET
2	GENERAL PLAN
3	BRIDGE TYPICAL SECTION & QUANTITIES
4-6	REMOVALS
7-14	RECONSTRUCTION
15-17	BEARINGS
18-19	WATERPROOF EXPANSION DEVICE
20-22	BRIDGE APPROACH PANEL
23–24	TRAFFIC CONTROL
	·

# DESIGN DATA

2020 AASHTO LRFD BRIDGE DESIGN SPEC HL–93 LIVE LOAD
MATERIAL DESIGN PROPERTIES: REINFORCED CONCRETE: f'c = 4 KSI CONCRETE fy = 60 KSI PLAIN AND EPOXY C fy = 75 KSI STAINLESS STEEL BA n = 8 FOR REINFORCEMENT BARS
STRUCTURAL STEEL: Fy = 36 KSI STRUCTURAL STEEL
STRUCTURE AREA = 13,839 SQUARE FEE
7,912 ADT FOR YEAR 2021 11,077 PROJECTED ADT FOR YEAR 2041

	I HEREBY CERTIFY THAT THIS PLAN 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.	
BENCHMARK EL. 915.995 (NAVD88)		
LOCATION: MnDOT BENCHMARK "JENNA", APPROXIMATELY 400 FT. SOUTHWEST OF JCT. 5th ST. WEST & T.H. 3 (DAHOMEY AVE.),	RONALD L. DOKKEN	APPROVED:
NEAR WALGREENS.	DATE: LIC. NO13931	DATE:





	ST	ATEMENT OF ESTIMATED QUANTITIES FOR ENTIRE	BRIDGE	
KEYNOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY (A)
	2021.501	MOBILIZATION	LUMP SUM	1
В	2104.502	SALVAGE ANCHOR ASSEMBLY	EACH	14
С	2104.502	SALVAGE HISTORIC PLAQUE	EACH	2
D	2104.502	SALVAGE LIGHTING UNIT	EACH	2
	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN. FT.	122
Е	2104.503	SALVAGE METAL RAILING	LIN. FT.	90
	2104.618	REMOVE AND REPLACE BITUMINOUS PAVEMENT	SQ. FT.	100
F	2401.507	STRUCTURAL CONCRETE (3S52)	CU. YD.	15 (P)
	2401.508	REINFORCEMENT BARS (EPOXY COATED)	POUND	3890 (P)
	2401.518	BRIDGE SLAB CONCRETE (3Y42-M)	SQ. FT.	649 (P)
G	2402.502	BEARING ASSEMBLY TYPE 1	EACH	4
G	2402.502	BEARING ASSEMBLY TYPE 2	EACH	12
	2402.503	EXPANSION JOINT DEVICES TYPE 4	LIN. FT.	125 (P)
н	2402.508	STRUCTURAL STEEL (3306)	POUND	1200 (P)
	2406.504	BRIDGE APPROACH PANELS	SQ. YD.	235
1	2433.501	STRUCTURE REMOVALS	LUMP SUM	1
J	2433.502	ANCHORAGES TYPE REINF BARS (STAINLESS STEEL)	EACH	100
к	2433.602	REMOVE BEARING ASSEMBLY	EACH	16
L	2478.518	ORGANIC ZINC–RICH PAINT SYSTEM (FIELD)	SQ. FT.	1940
м	2521.518	4" CONCRETE WALK	SQ. FT.	401
	2531.503	CONCRETE CURB AND GUTTER DESIGN B618	LIN. FT.	15
	2540.602	INSTALL HISTORIC PLAQUE	EACH	2
	2540.603	INSTALL METAL RAILING	LIN. FT.	90
	2545.602	INSTALL LIGHTING UNIT	EACH	2
	2554.602	INSTALL ANCHOR ASSEMBLY	EACH	14

2563.601

TRAFFIC CONTROL

# STATEMENT OF QUANTITIES KEYNOTES:

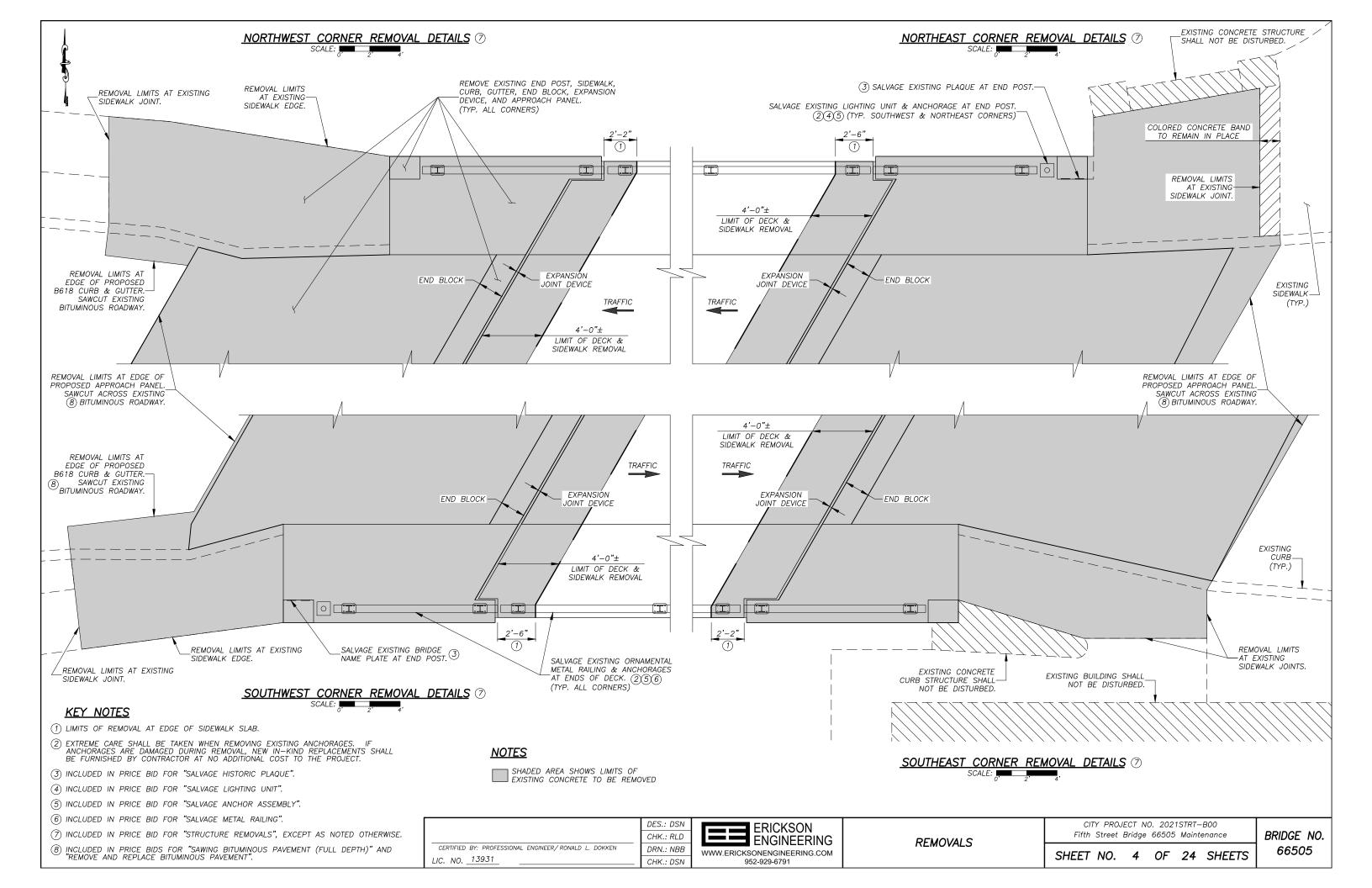
A.	(P) DENOT	ES "PLAN QUANTITY"
В.		(12) ANCHOR ASSEMBLIES FOR THE
		AND (2) ANCHOR ASSEMBLIES FOR
С.	INCLUDES:	(1) EXISTING PLAQUE ON THE SOUTH THE NORTHEAST END POST.
D.	INCLUDES:	(1) EXISTING LIGHT POST ON THE SO ON THE NORTHEAST CORNER.
Ε.	INCLUDES:	THE LAST (2) ORNAMENTAL RAIL SEC
		SIDEWALK OVER WINGWALLS AND CON
G.	INCLUDES:	INSTALLING THE NEW BEARING ASSEM
		CORRESPONDING (2) ANCHOR RODS
Н.	INCLUDES:	INSTALLING (3) NEW END DIAPHRAGM
		NORTHEAST & SOUTHEAST BAYS.
Ι.	INCLUDES:	ALL CONCRETE, REINFORCEMENT, ENL
		ASSOCIATED WITH THE PROJECT UNL
		(1) STAINLESS STEEL BAR & (1) CH
К.	INCLUDES:	REMOVAL OF (16) EXISTING BEARING
		BEAM SOLE PLATE AND CUTTING EXI
		SEAT. DURING REMOVAL OPERATION
		A 1/4 INCH HIGHER THAN AN ADJA
L.	INCLUDES:	CLEANING AND SURFACE PREPARATIO
		PLATES, THE EXISTING END DIAPHRA
		THE EXISTING BEAMS, AND THE NEW
М.	INCLUDES:	SIDEWALK OFF BRIDGE STRUCTURE.

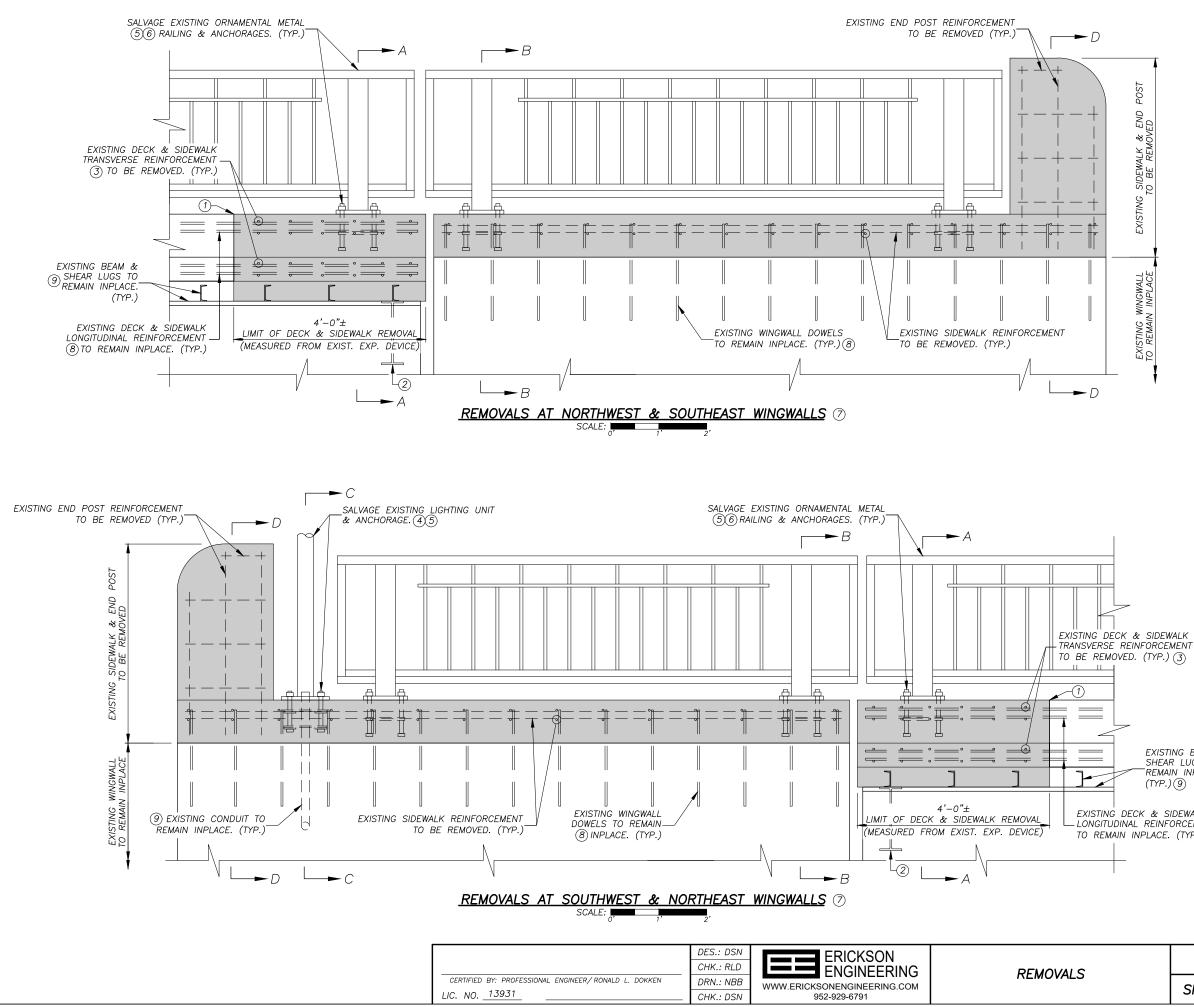
LIC. NO CHK.: DSN 952-929-6791
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1

LUMP SUM

EXISTING ORNAMENTAL METAL RAIL END SECTIONS THE EXISTING LIGHTING UNITS. HWEST END POST AND (1) EXISTING PLAQUE ON SOUTHWEST CORNER AND (1) EXISTING LIGHT POST CTIONS AT EACH CORNER OF THE BRIDGE. NCRETE END POST RECONSTRUCTION. MBLY & SHIM PLATE AND INSTALLING THE PER ASSEMBLY. IS AND ASSOCIATED HARDWARE AT NORTHWEST, ND DIAPHRAGMS, AND EXPANSION JOINT REMOVALS VLESS NOTED OTHERWISE. HEMICAL ANCHORAGE (SEE SPECIAL PROVISIONS). (ISTING ANCHOR RODS FLUSH WITH THE BEARING NS NO SINGLE BEAM SHALL BE LIFTED MORE THAN CENT BEAM. ON (SAND BLASTING) OF THE EXISTING BEAM SOLE AGMS REMAINING IN PLACE, THE LAST 7 FEET OF V END DIAPHRAGMS. CITY PROJECT NO. 2021STRT-B00 Fifth Street Bridge 66505 Maintenance BRIDGE NO. 66505 SHEET NO. 3 OF 24 SHEETS





### <u>NOTES</u>

SHADED AREA SHOWS LIMITS OF EXISTING CONCRETE TO BE REMOVED

SEE SHEET 6 FOR SECTIONS A-A THRU D-D.

- 1 SAWCUT ACROSS TOP OF SIDEWALK. TO PREVENT DAMAGE TO EXISTING REINFORCEMENT, SAWCUT DEPTH SHALL NOT EXCEED 2".
- (2) SEE "BEARING & DIAPHRAGM LAYOUT" FOR DIAPHRAGM DETAILS.
- 3 any existing transverse deck & sidewalk reinforcement that remains partially embedded in THE EXISTING CONCRETE SHALL BE CLEANED, STRAIGHTENED AND RE-USED.
- (4) INCLUDED IN PRICE BID FOR "SALVAGE LIGHTING UNIT".
- (5) INCLUDED IN PRICE BID FOR "SALVAGE ANCHOR ASSEMBLY".
- (6) INCLUDED IN PRICE BID FOR "SALVAGE METAL RAILING".
- (7) INCLUDED IN PRICE BID FOR "STRUCTURE REMOVALS", EXCEPT AS NOTED OTHERWISE.
- (8) EXTREME CARE SHALL BE TAKEN DURING REMOVALS AS TO NOT DAMAGE EXISTING REINFORCEMENT. IF EXISTING REINFORCEMENT IS DAMAGED, NEW DOWELED IN REINFORCEMENT SHALL BE FURNISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- (9) EXTREME CARE SHALL BE TAKEN DURING REMOVALS AS TO NOT DAMAGE EXISTING COMPONENTS.

POST

SIDEWALK & END TO BE REMOVED

EXISTING

WINGWALL

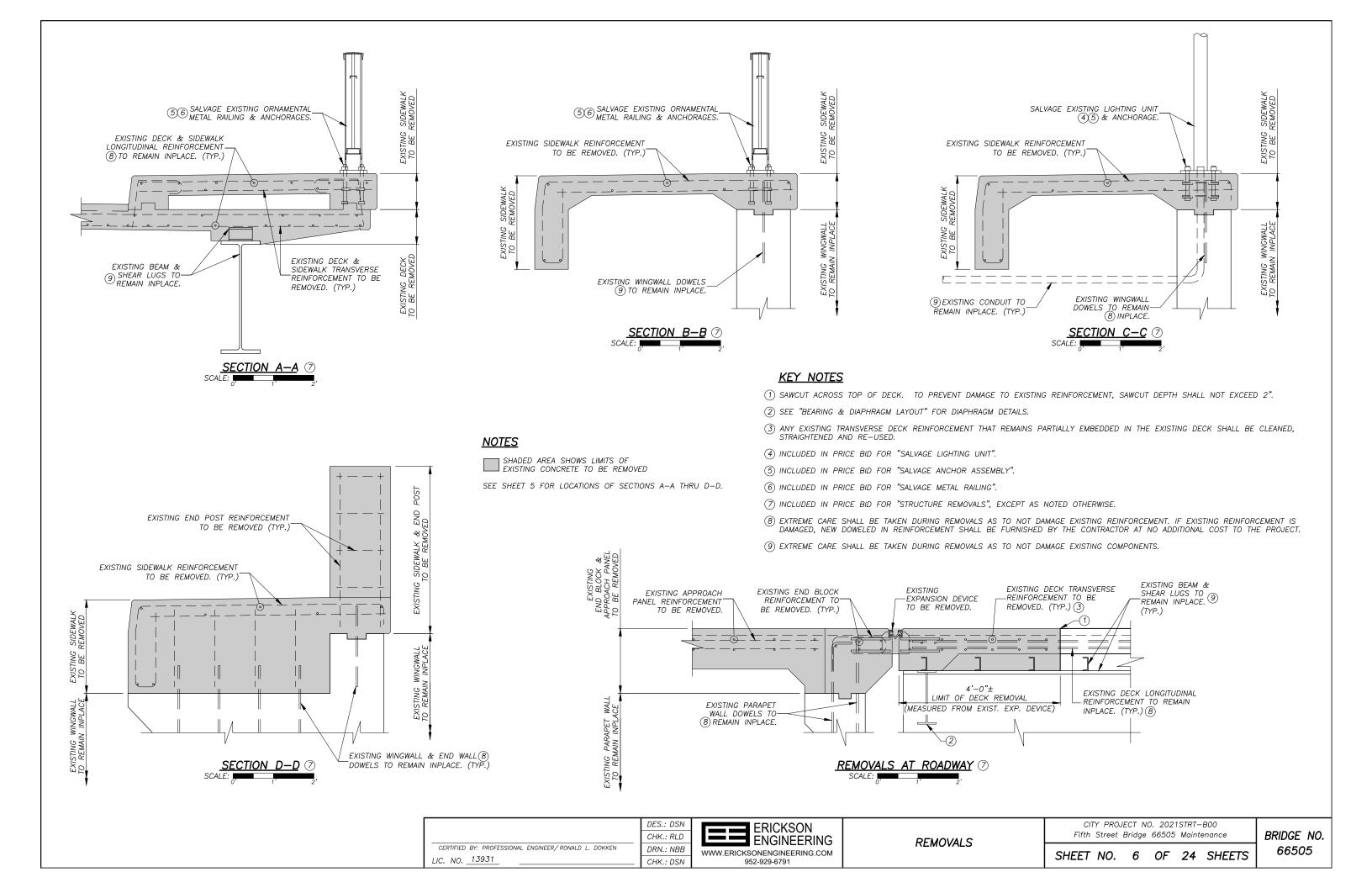
ISTING W REMAIN

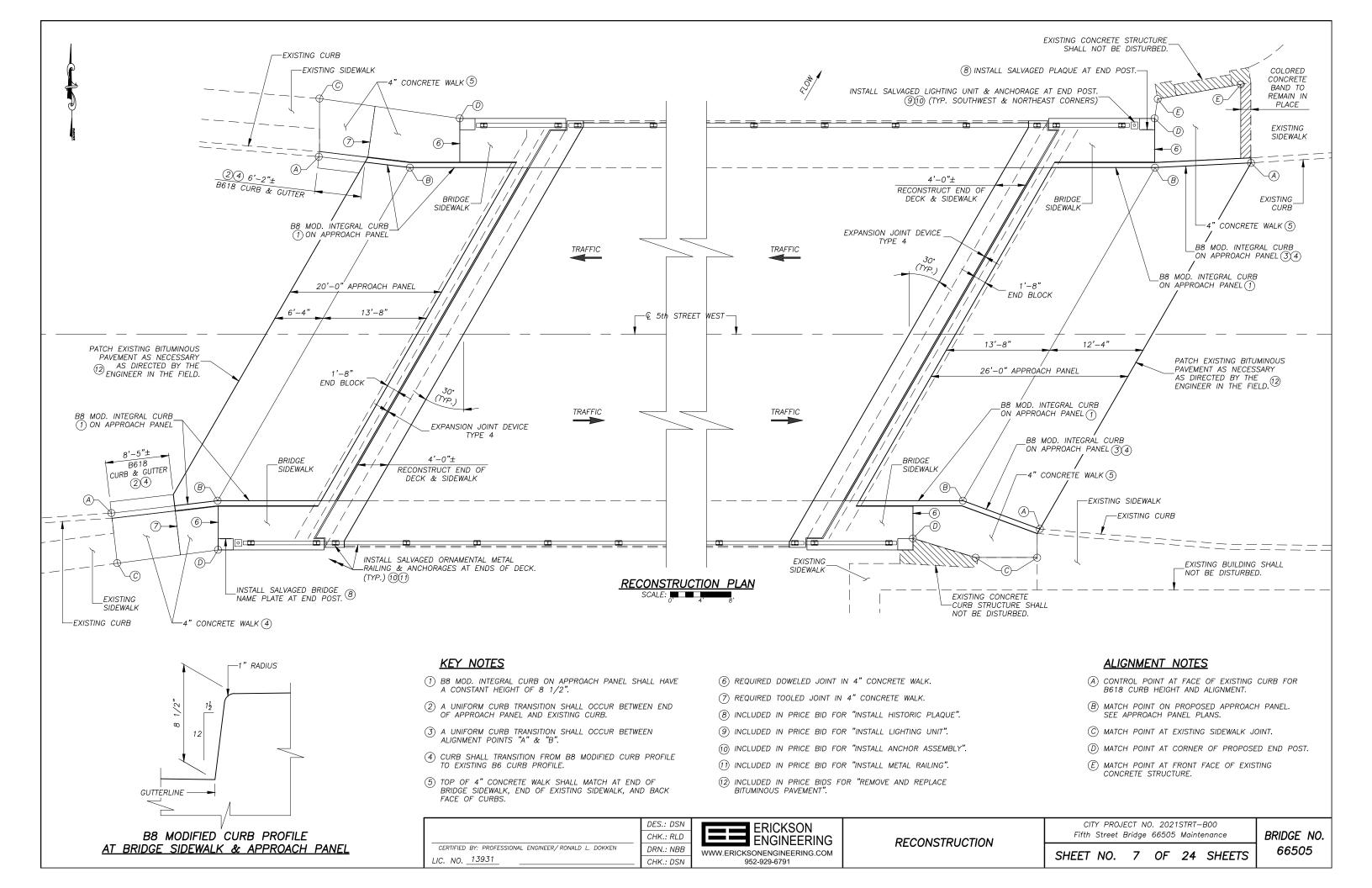
10 X Z

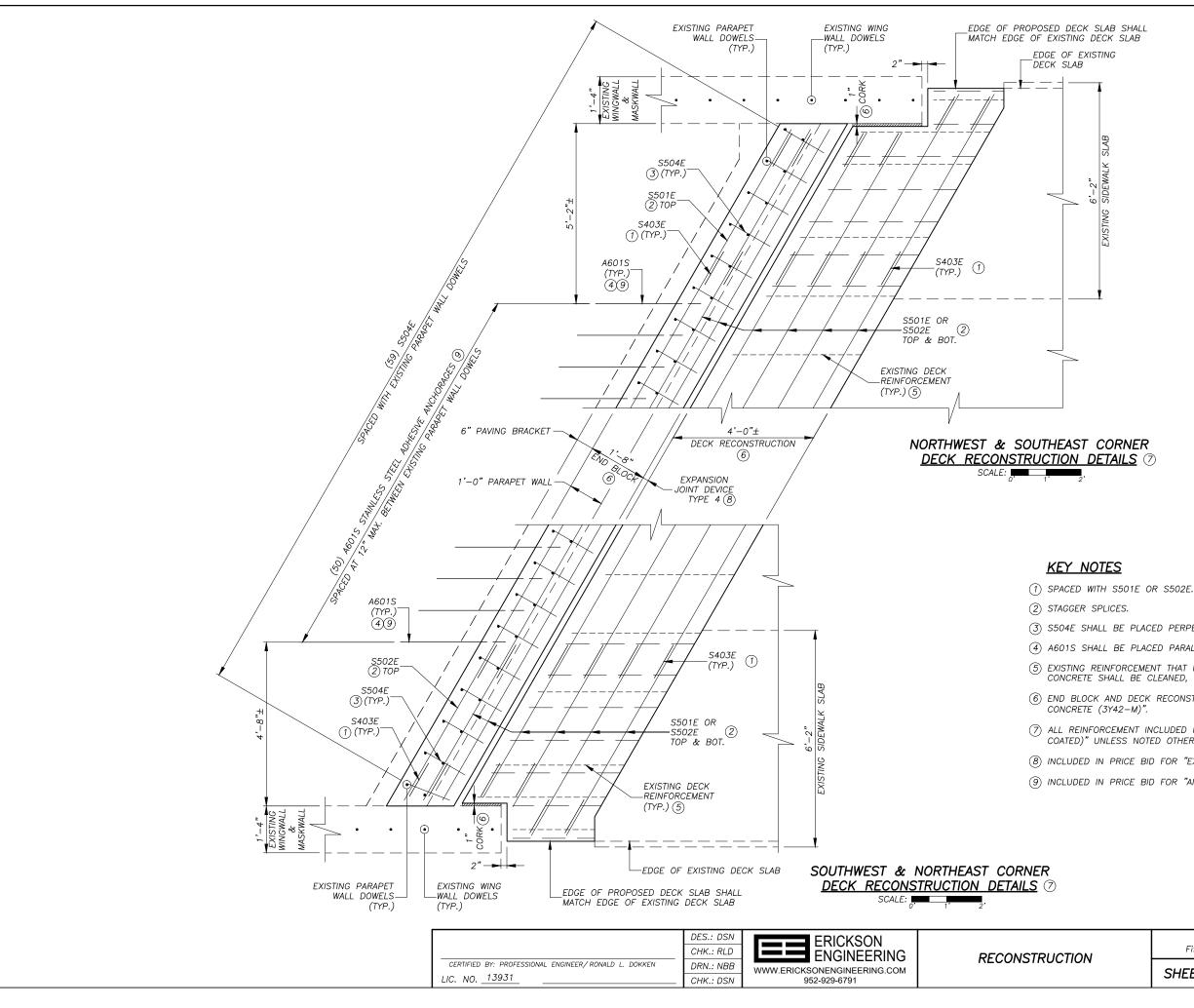
EXISTING BEAM & SHEAR LUGS TO REMAIN INPLACE. (TYP.)9

EXISTING DECK & SIDEWALK LONGITUDINAL REINFORCEMENT TO REMAIN INPLACE. (TYP.) (8)

•			). 2021 66505			BRIDGE NO.
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(3) S504E SHALL BE PLACED PERPENDICULAR TO END OF DECK.

(4) A601S SHALL BE PLACED PARALLEL TO € ROADWAY.

(5) EXISTING REINFORCEMENT THAT REMAINS PARTIALLY EMBEDDED IN THE EXISTING CONCRETE SHALL BE CLEANED, STRAIGHTENED AND RE-USED.

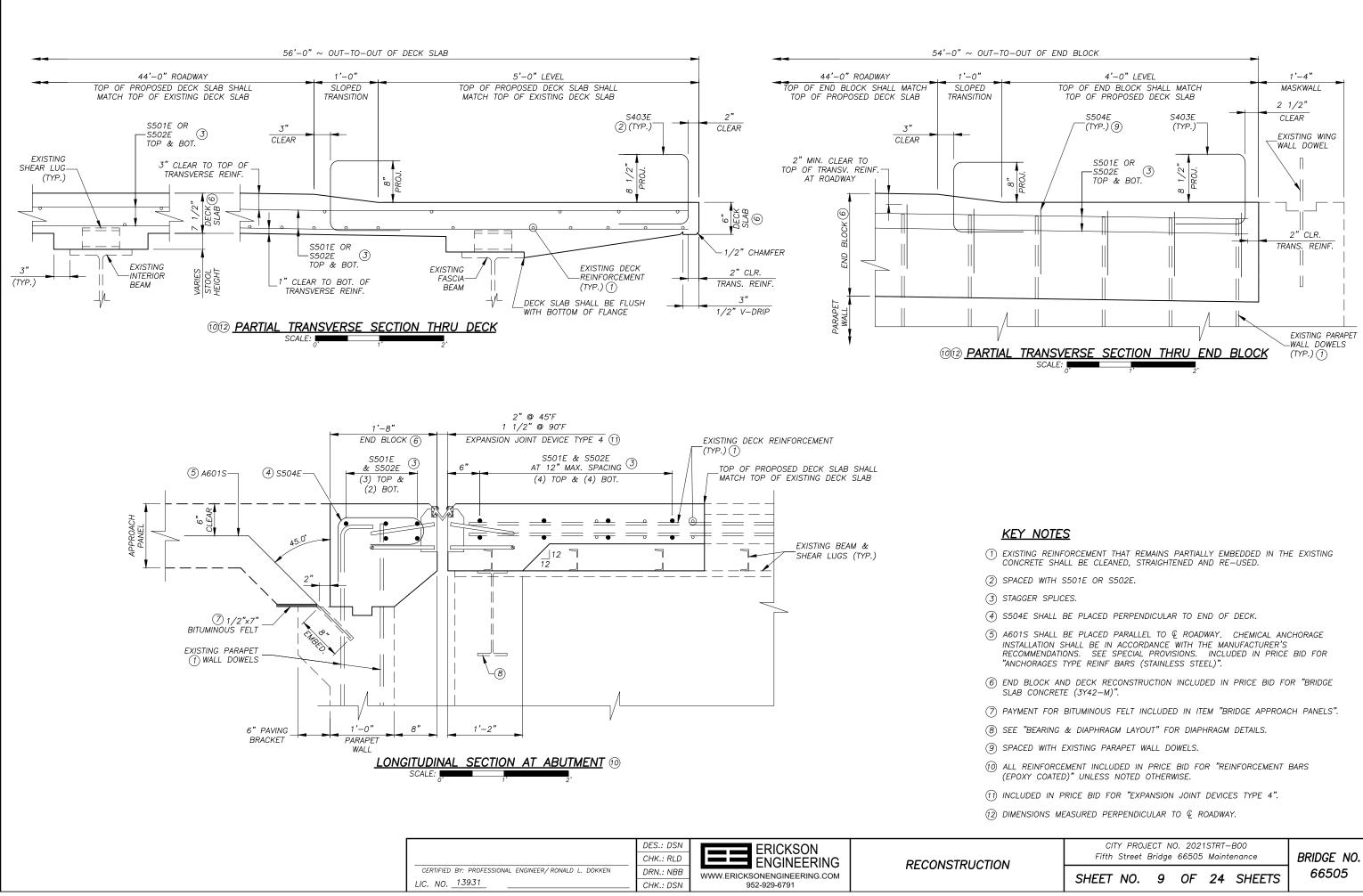
(6) END BLOCK AND DECK RECONSTRUCTION INCLUDED IN PRICE BID FOR "BRIDGE SLAB

(7) ALL REINFORCEMENT INCLUDED IN PRICE BID FOR "REINFORCEMENT BARS (EPOXY COATED)" UNLESS NOTED OTHERWISE.

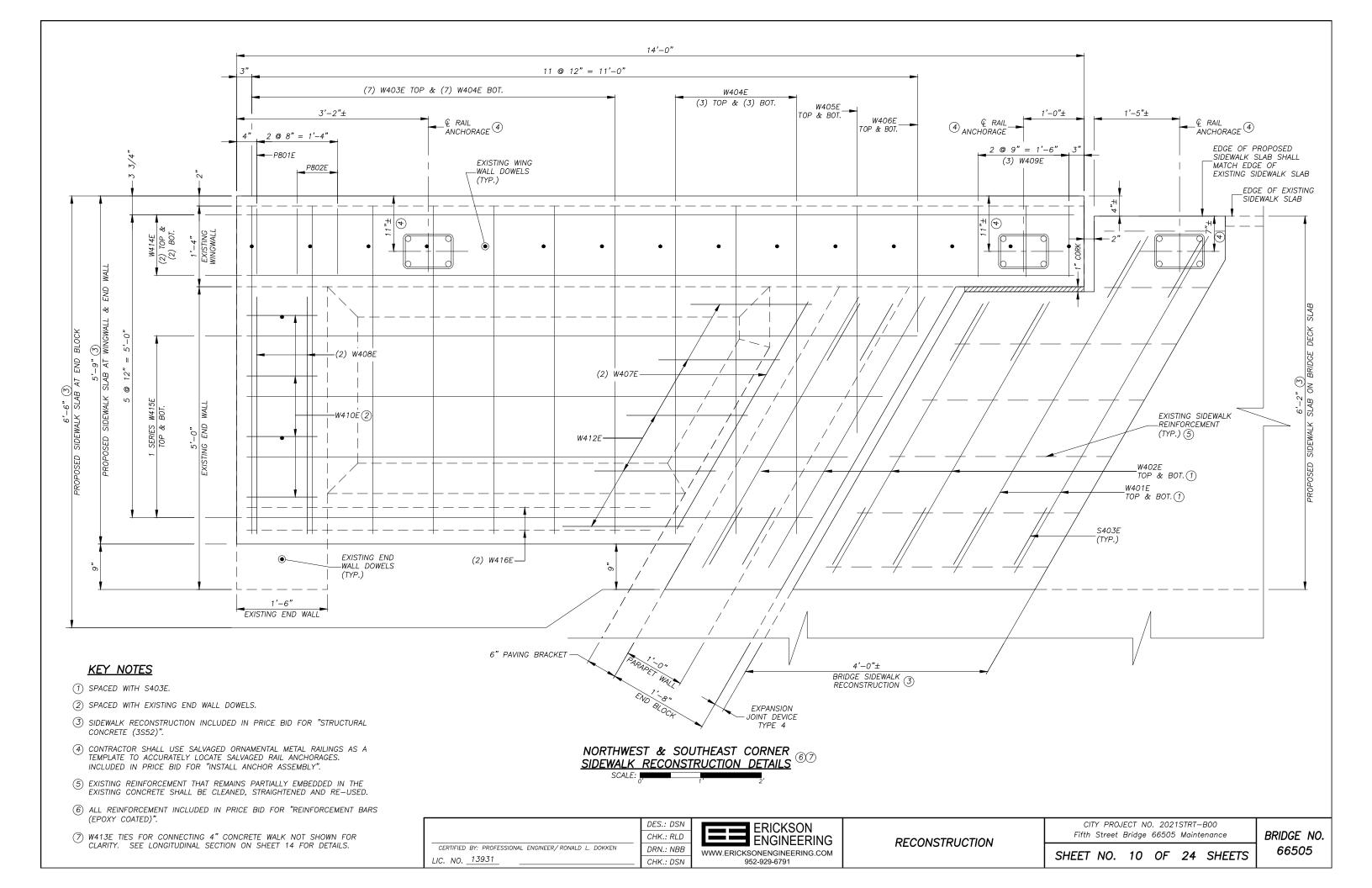
(8) INCLUDED IN PRICE BID FOR "EXPANSION JOINT DEVICES TYPE 4".

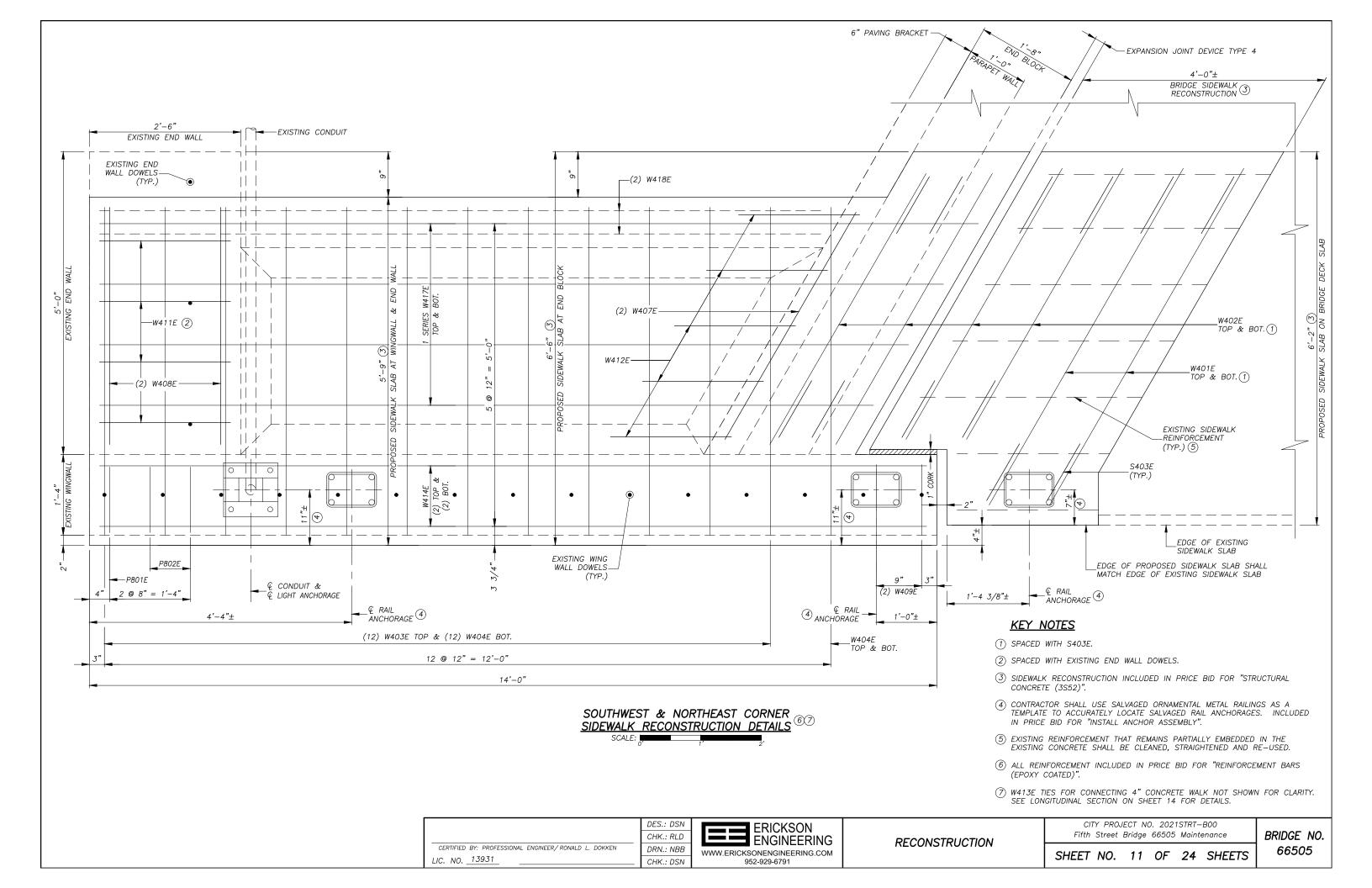
(9) INCLUDED IN PRICE BID FOR "ANCHORAGES TYPE REINF BARS (STAINLESS STEEL)".

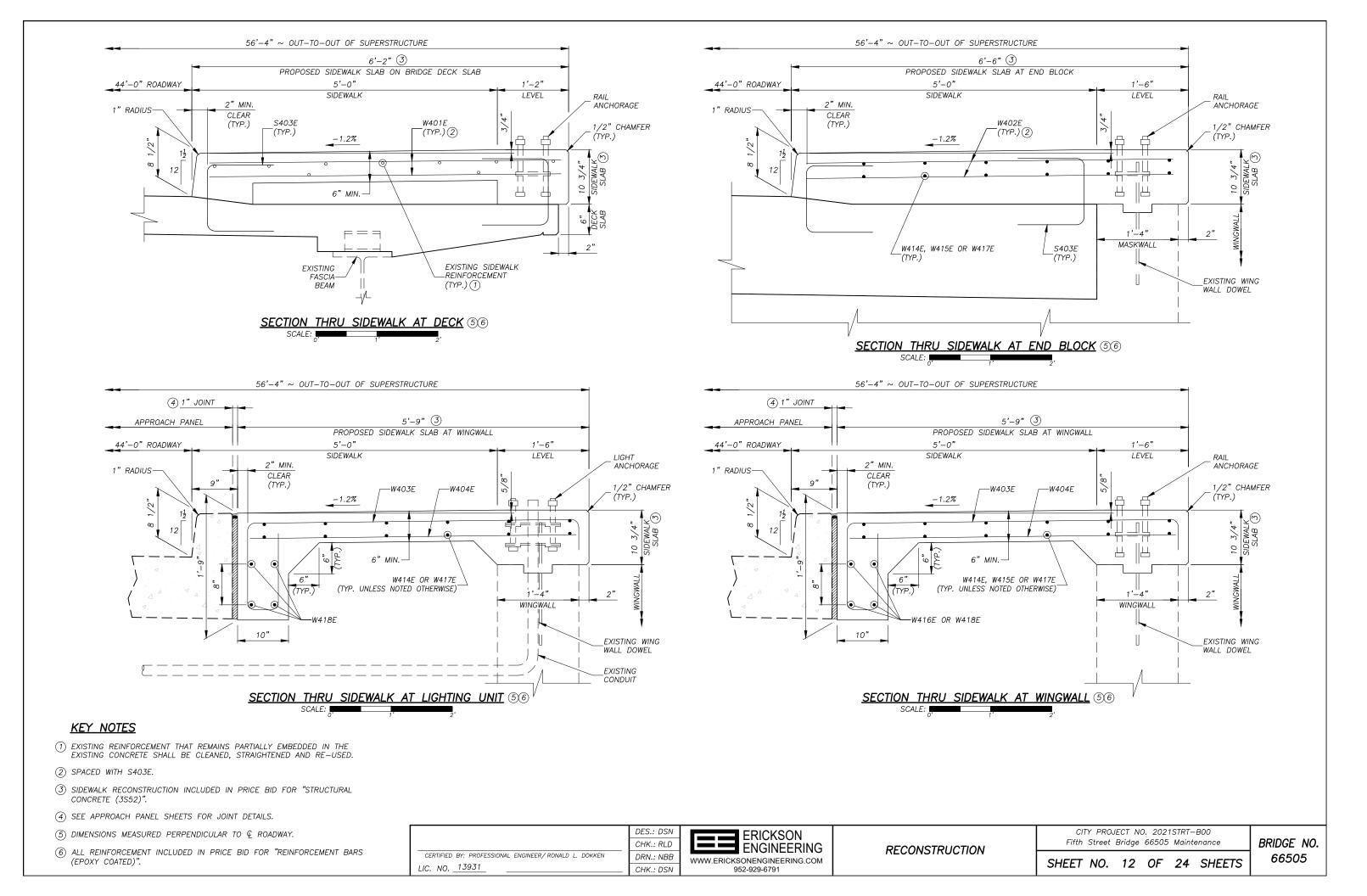
	Y PROJI Street					BRIDGE NO.
SHEET	NO.	8	OF	24	SHEETS	66505

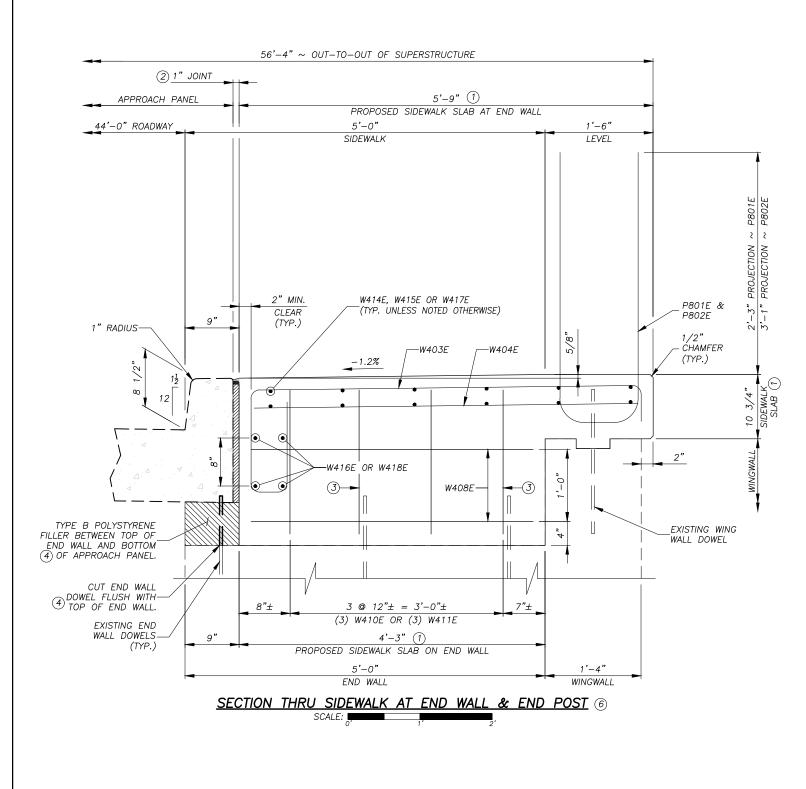


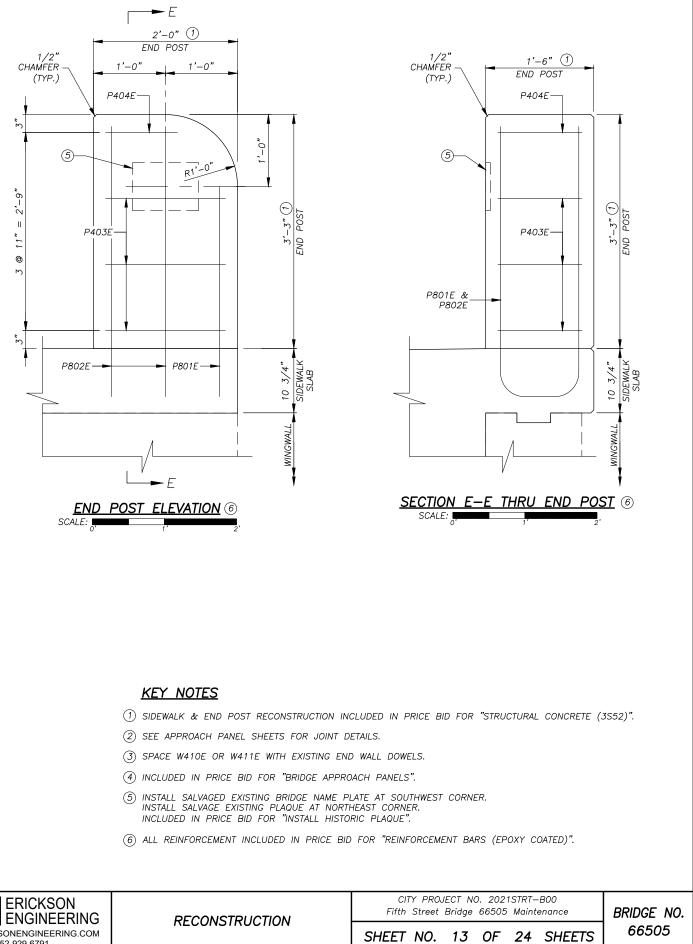
BRIDGE	NO.				
66505					



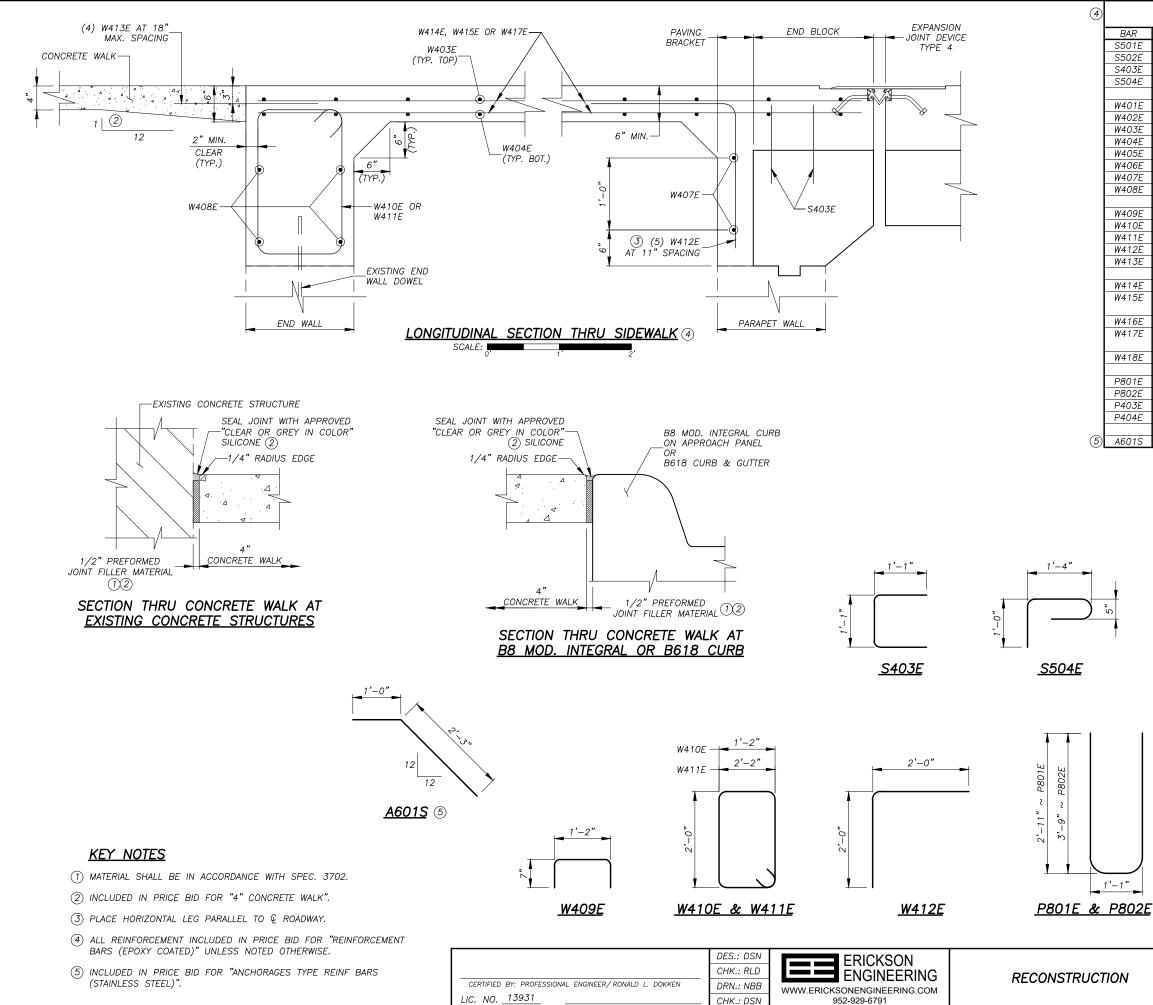




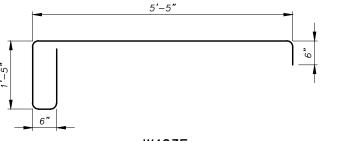




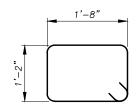
Certified by: professional engineer/ronald L. dokken	DES.: DSN CHK.: RLD DRN.: NBB CHK.: DSN	ERICKSON ENGINEERING WWW.ERICKSONENGINEERING.COM 952-929-6791	RECONSTRUCTION
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BILL OI	F REINFORCEI	MENT	~ RECONSTRUCTION
NO.	LENGTH	SHAPE	LOCATION
26	40'-0"	STRT.	SLAB & END BLOCK ~ TRANSVERSE
26	26'-4"	STRT.	SLAB & END BLOCK ~ TRANSVERSE
48	3'-3"	BENT	SLAB & END BLOCK ~ SIDEWALK TIE
118	3'-5"	BENT	END BLOCK ~ TIE
16	6'-5"	STRT.	SIDEWALK ~ TRANSVERSE
32	5'-2"	STRT.	SIDEWALK ~ TRANSVERSE
38	8'-10"	BENT	SIDEWALK ~ TRANSVERSE
54	5'-4"	STRT.	SIDEWALK ~ TRANSVERSE
4	3'-9"	STRT.	SIDEWALK ~ TRANSVERSE
4	2'-1"	STRT.	SIDEWALK ~ TRANSVERSE
8	4'-4"	STRT.	SIDEWALK ~ TRANSVERSE
16	3'-11"	STRT.	SIDEWALK ~ TRANSVERSE
10	2'-4"	BENT	SIDEWALK ~ TIE
8	7'-0"	BENT	SIDEWALK ~ TIE
8	9'-0"	BENT	SIDEWALK ~ TIE
20	4'-0"	BENT	SIDEWALK ~ TIE
16	3'-0"	STRT.	SIDEWALK ~ TIE
16	13'-8"	STRT.	SIDEWALK ~ LONGITUDINAL
2 SER.	FROM 9'-4"	STRT.	SIDEWALK ~ LONGITUDINAL
OF 4	TO 11'-1" 6'-8"		
8	6'-8"	STRT.	SIDEWALK ~ LONGITUDINAL
2 SER.	FROM 12'-9"	STRT.	SIDEWALK ~ LONGITUDINAL
OF 4	TO 14'-6"		
8	11'-11"	STRT.	SIDEWALK ~ LONGITUDINAL
4	6'-11"	BENT	END POST ~ VERTICAL TIE
8	8'-7"	BENT	END POST ~ VERTICAL TIE
12	6'-4"	BENT	END POST ~ HORIZONTAL TIE
4	5'-0"	BENT	END POST ~ HORIZONTAL TIE
100	3'-3"	BENT	APPROACH PANEL TIE



<u>W403E</u>

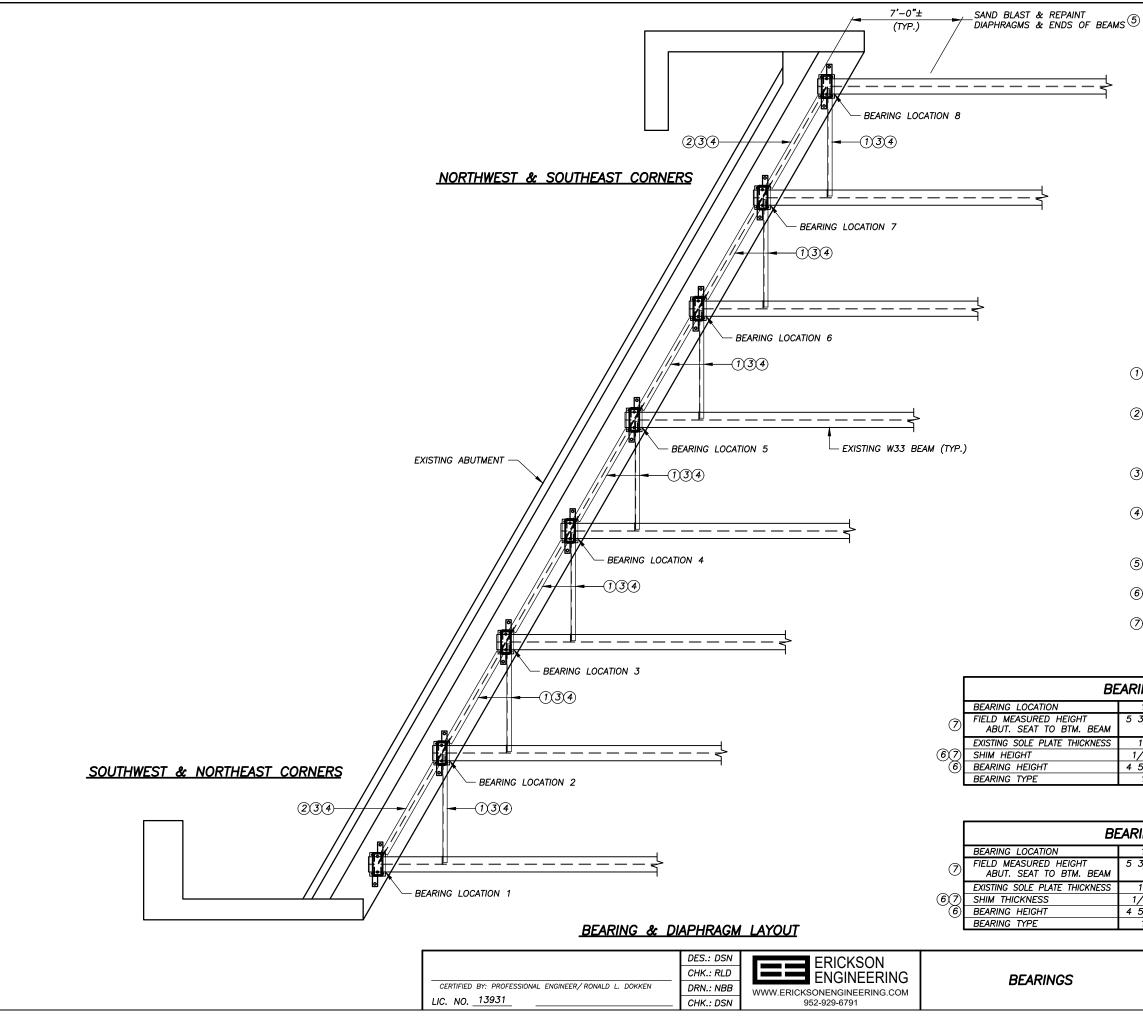


<u>P403E</u>



<u>P404E</u>

 CITY PF Fifth Stre	OJECT N et Bridge				BRIDGE NO.
SHEET NO	. 14	OF	24	SHEETS	66505



### <u>NOTES</u>

ALL STRUCTURAL STEEL SHALL COMPLY WITH SPEC. 3306, EXCEPT AS NOTED.

HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SPEC. 3392. ACCORDANCE WITH SPEC. 3394.

CONTRACTOR SHALL CAREFULLY JACK EXISTING BEAMS FOR BEARING REMOVAL. DO NOT LIFT ANY BEAM MORE THAN 1/4" THAN AN ADJACENT BEAM. LIFT BEAMS MINIMUM AMOUNT NEEDED AS TO NOT DAMAGE EXISTING CONDUITS, UTILITIES, OR DECK.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AS NEEDED IN ORDER TO TEMPORARILY LOOSEN UTILITY HANGERS AS NEEDED TO PERFORM WORK. TEMPORARILY SUPPORT UTILITIES AS NEEDED DURING WORK.

EXISTING ANCHOR RODS SHALL BE CUT AND/OR GROUND FLUSH WITH TOP OF ABUTMENT SEAT. INCLUDED IN PRICE BID FOR "REMOVE BEARING ASSEMBLY".

BOTTOM OF EXISTING SOLE PLATE SHALL BE MECHANICALLY CLEANED BEFORE INSTALLING NEW BEARING ASSEMBLIES.

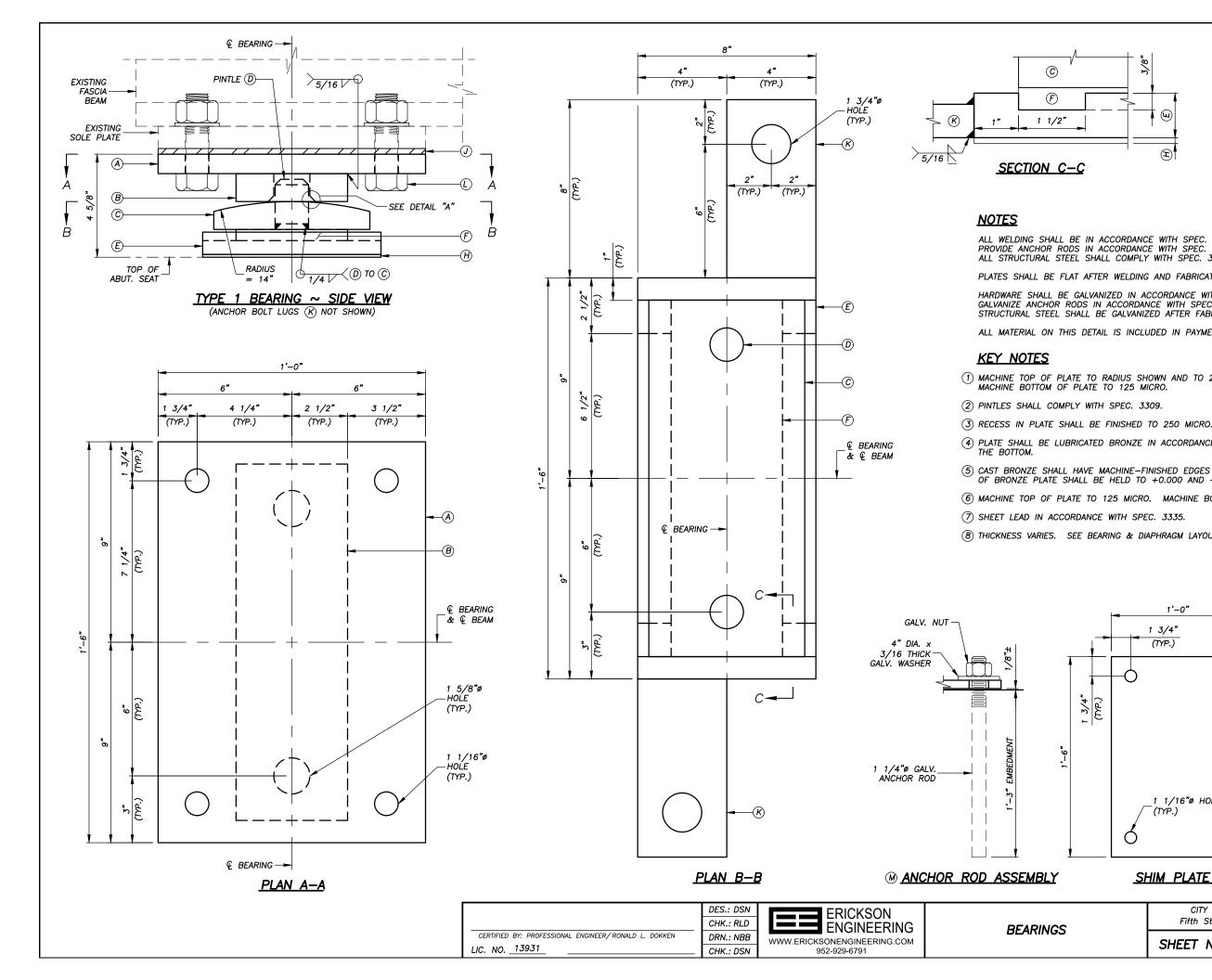
### KEY NOTES

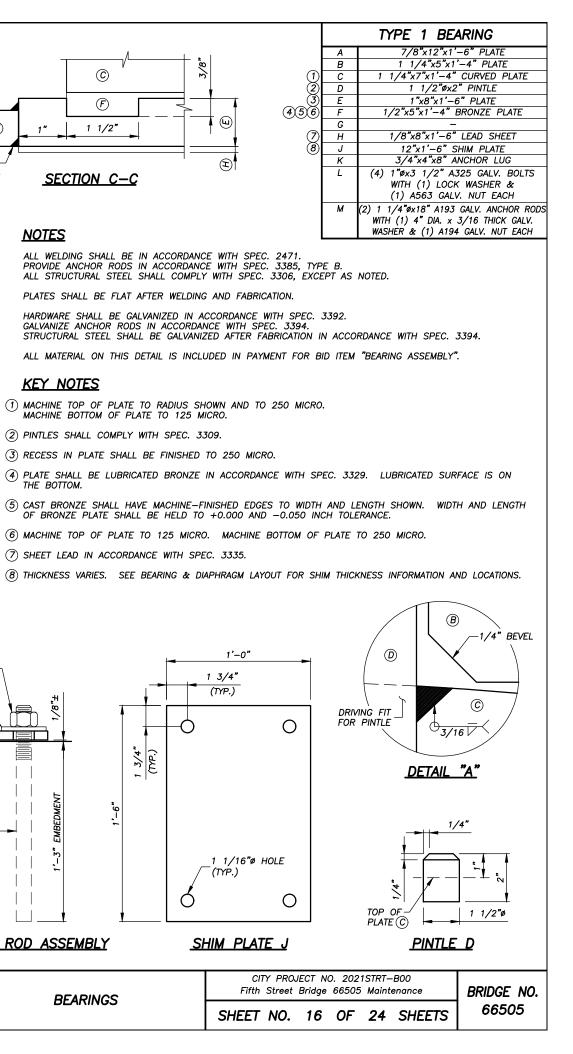
- (1) REMOVE & REINSTALL EXISTING W16 AND C15 DIAPHRAGMS AS REEDED TO ALLOW BEARING REPLACEMENT. INCLUDED IN PRICE BIDS FOR "BEARING ASSEMBLY TYPE 1" AND "BEARING ASSEMBLY TYPE 2".
- (2) INSTALL (3) W16x36 DIAPHRAGMS AT NORTHWEST, NORTHEAST & SOUTHEAST BAYS ONLY. CONTRACTOR SHALL USE EXISTING DIAPHRAGM AS A TEMPLATE. INCLUDED IN PRICE BID FOR "STRUCTURAL STEEL (3306)". THE REMOVAL OF THE EXISTING DIAPHRAGMS IS INCLUDED IN PRICE BID FOR "STRUCTURE REMOVALS".
- (3) CLEAN & PAINT MATING SURFACES BEFORE DIAPHRAGM INSTALLATION. INCLUDED IN PRICE BID FOR "ORGANIC ZINC-RICH PAINT SYSTEM (FIELD)". SEE SPECIAL PROVISIONS.
- (4) (RE)INSTALL DIAPHRAGM USING NEW HIGH STRENGTH BOLTS, WASHERS & NUTS IN ACCORDANCE WITH SPEC. 3391.2.B. BOLT DIAMETER SHALL MATCH EXISTING HARDWARE SIZE. INCLUDED IN PRICE BID FOR "STRUCTURAL STEEL (3306)".
- (5) INCLUDED IN PRICE BID FOR "ORGANIC ZINC-RICH PAINT SYSTEM (FIELD)". SEE SPECIAL PROVISIONS.
- (6) INCLUDED IN PRICE BIDS FOR "BEARING ASSEMBLY TYPE 1" AND "BEARING ASSEMBLY TYPE 2".
- (7) EXISTING BEARING HEIGHTS AND REQUIRED SHIM THICKNESS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PERFORMING THE WORK.

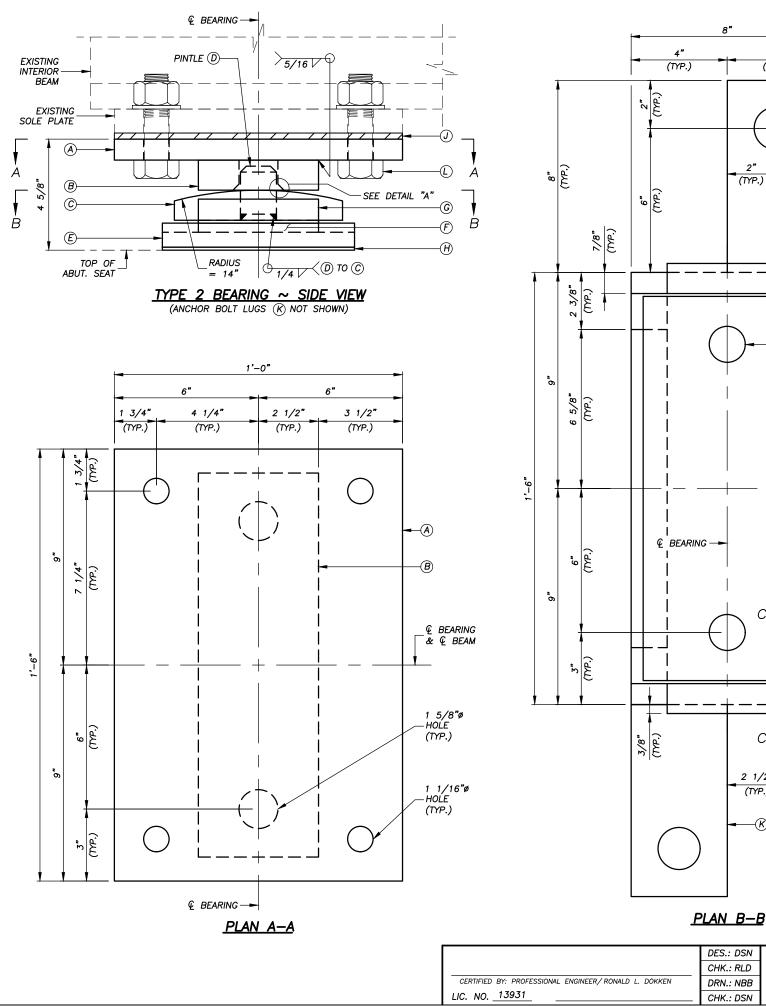
F	EARING HEIGHTS ~ WEST ABUTMENT							
	1	2	3	4	5	6	7	8
	5 3/4"	6"	5 3/4"	5 3/4"	5 5/8"	5 3/4"	5 3/4"	5 5/8"
	1"	1"	1"	1"	1"	1"	1"	1"
	1/8"	3/8"	1/8"	1/8"	NO SHIM	1/8"	1/8"	NO SHIM
	4 5/8"	4 5/8"	4 5/8"	4 5/8"	4 5/8"	4 5/8"	4 5/8"	4 5/8"
	1	2	2	2	2	2	2	1

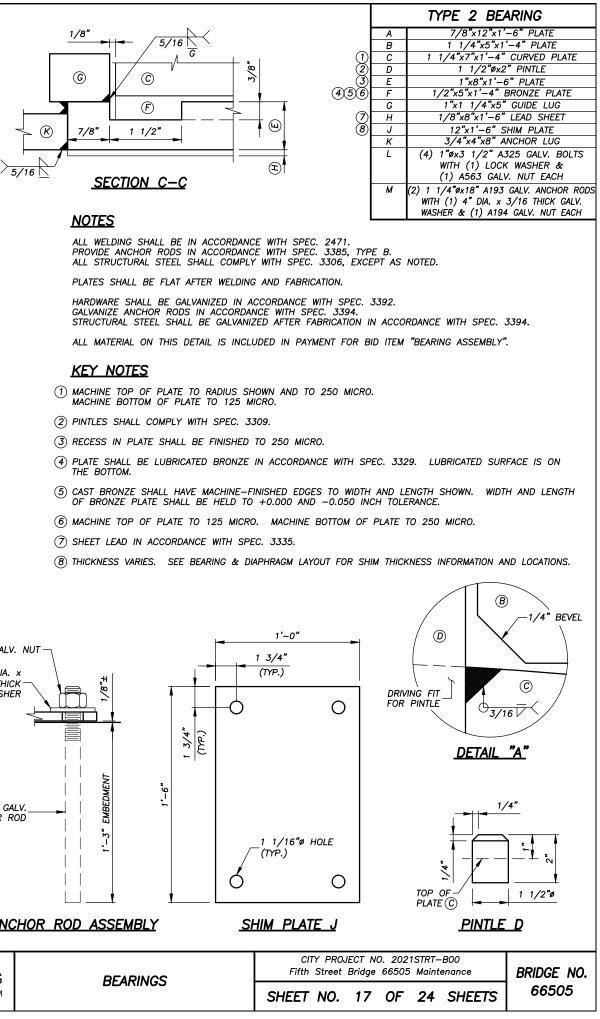
1 2 3 4 5 5 3/4" 5 3/4" 5 5/8" 5 3/4" 5 3/4" 5	6 5 3/4"	7	8
5 3/4" 5 3/4" 5 5/8" 5 3/4" 5 3/4" 5	5 3/4"	<i>c</i> "	
		6"	5 5/8"
1" 1" 1" 1" 1"	1"	1"	1"
1/8" 1/8" NO SHIM 1/8" 1/8"	1/8"	3/8"	NO SHIM
4 5/8" 4 5/8" 4 5/8" 4 5/8" 4 5/8" 4	↓ 5/8"	4 5/8"	4 5/8"
1 2 2 2 2	2	2	1

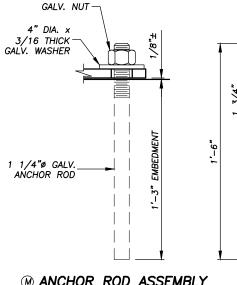
•		JECT NO Bridge				BRIDGE NO.
SHEET	NO.	15	OF	24	SHEETS	66505











(M) <u>ANC</u>	HOR RO	<u>D ASSEMBLY</u>	

	DES.: DSN	ERICKSON	
	CHK.: RLD	ENGINEERING	
IONAL ENGINEER/ RONALD L. DOKKEN	DRN.: NBB	WWW.ERICKSONENGINEERING.COM	
	CHK.: DSN	952-929-6791	

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(TYP.)

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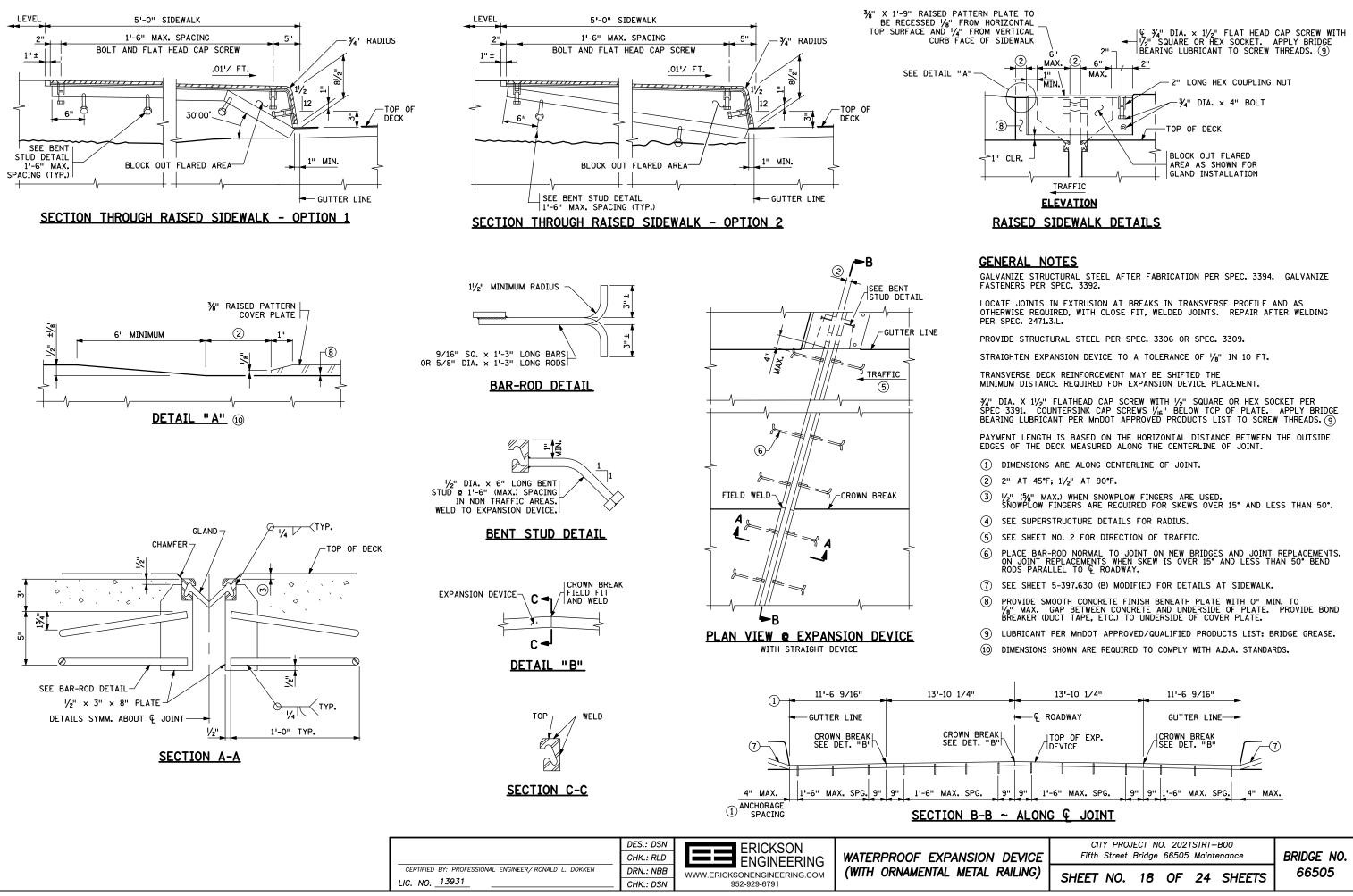
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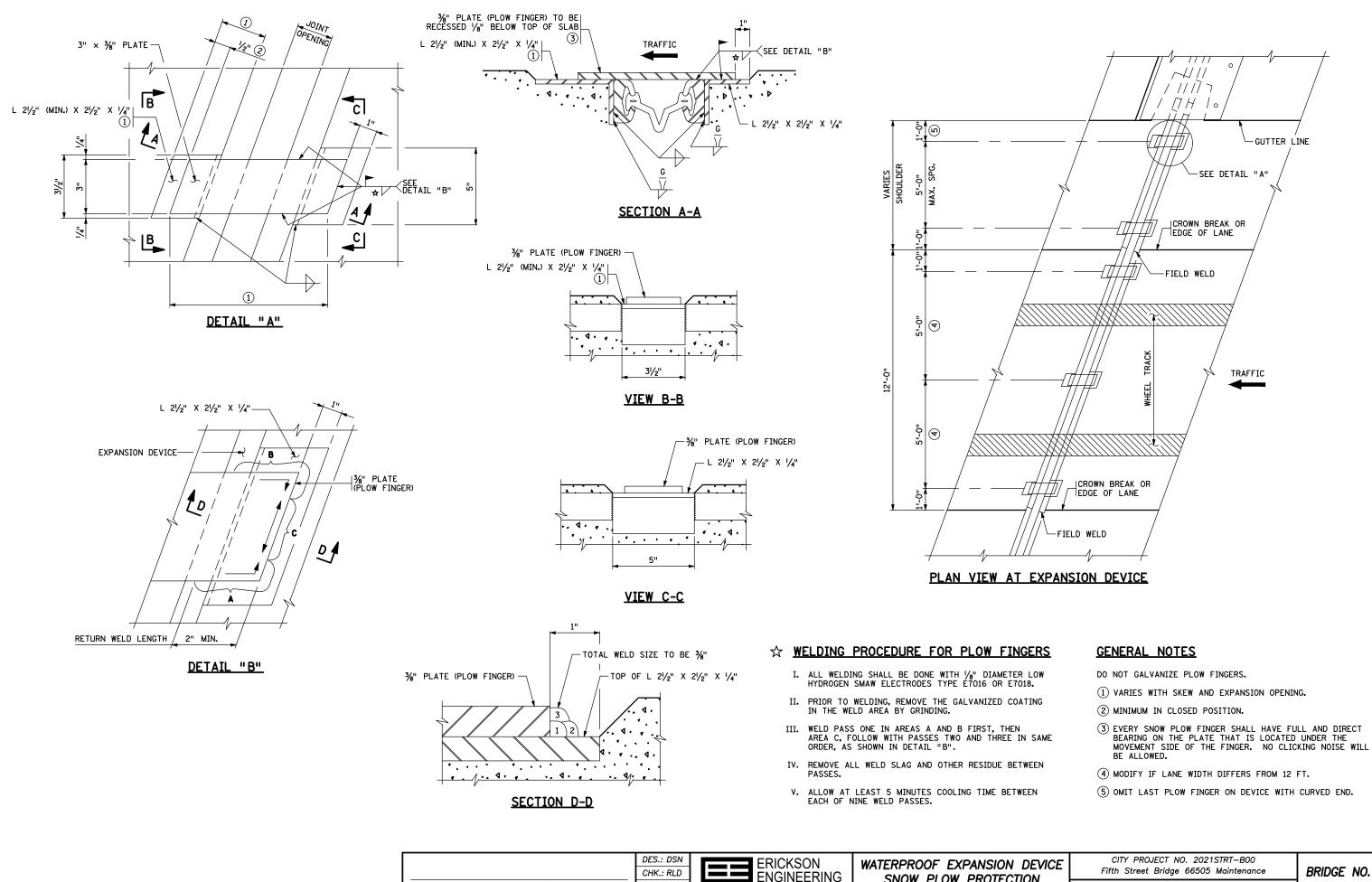
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€ BEARING

¯& € BEAM





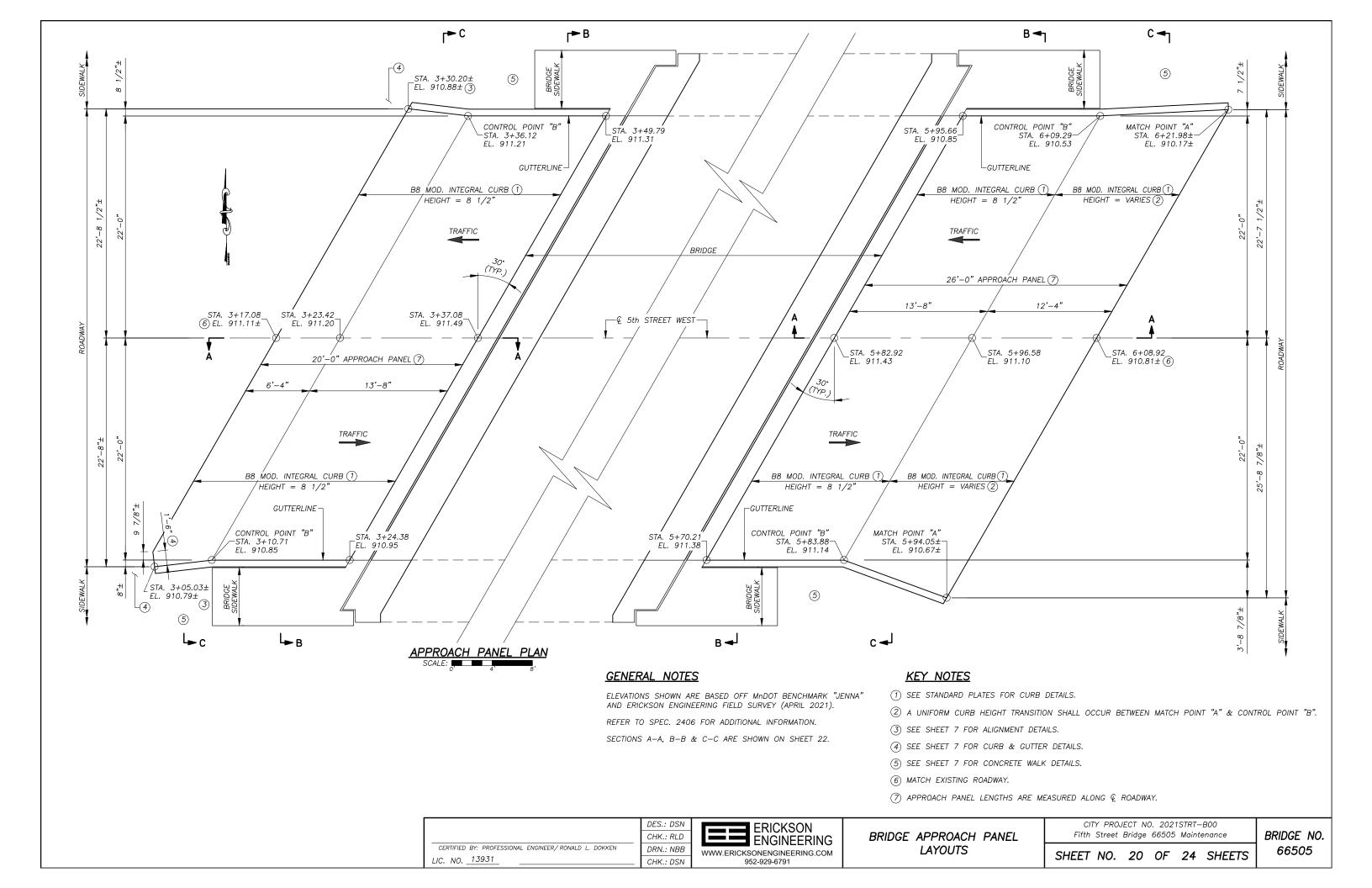
CERTIFIED BY: PROFESSIONAL ENGINEER/RONALD L. DOKKEN DRN.: NBB WWW.ERICKSONENGINEERING.COM CHK.: DSN

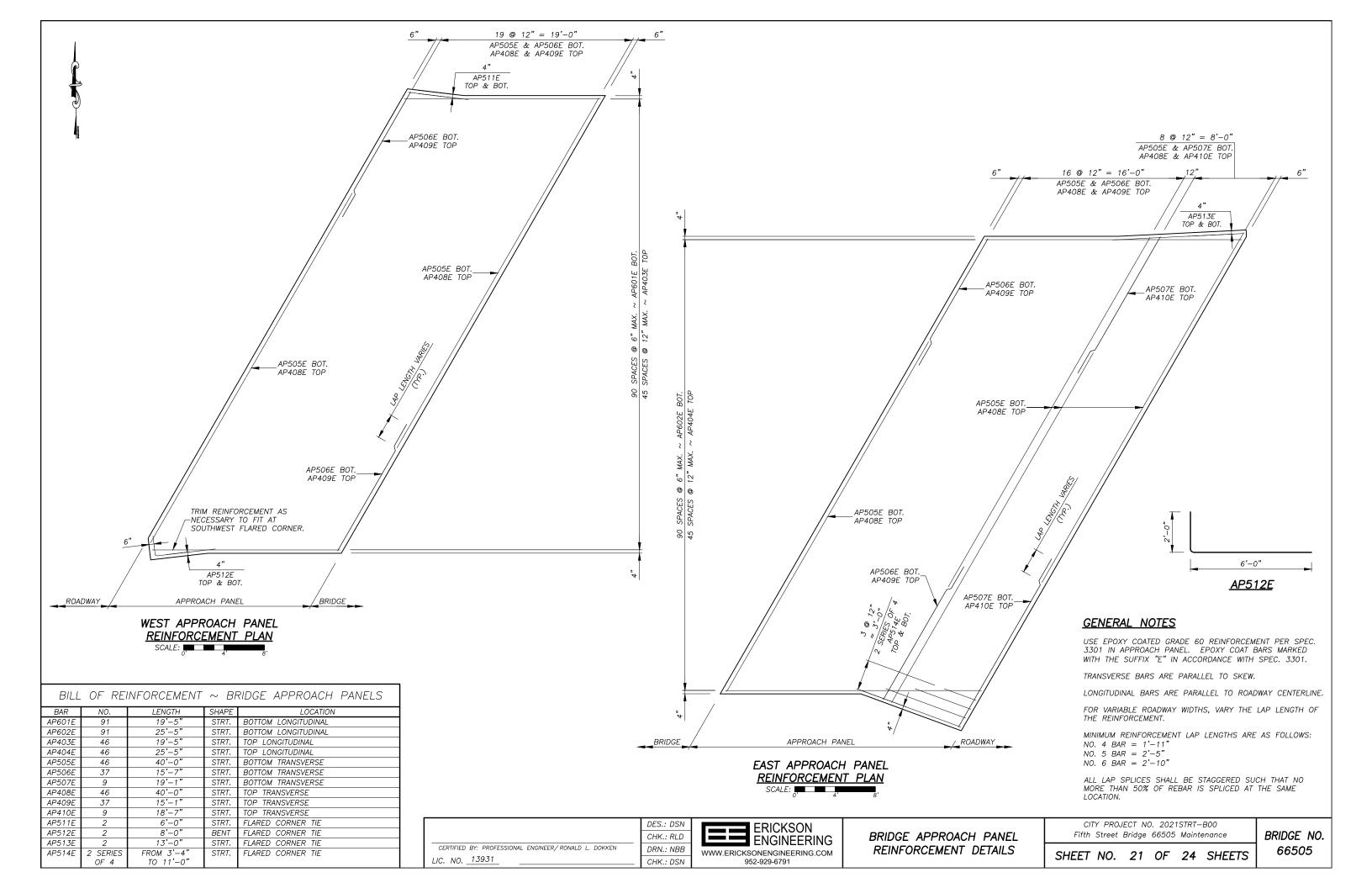
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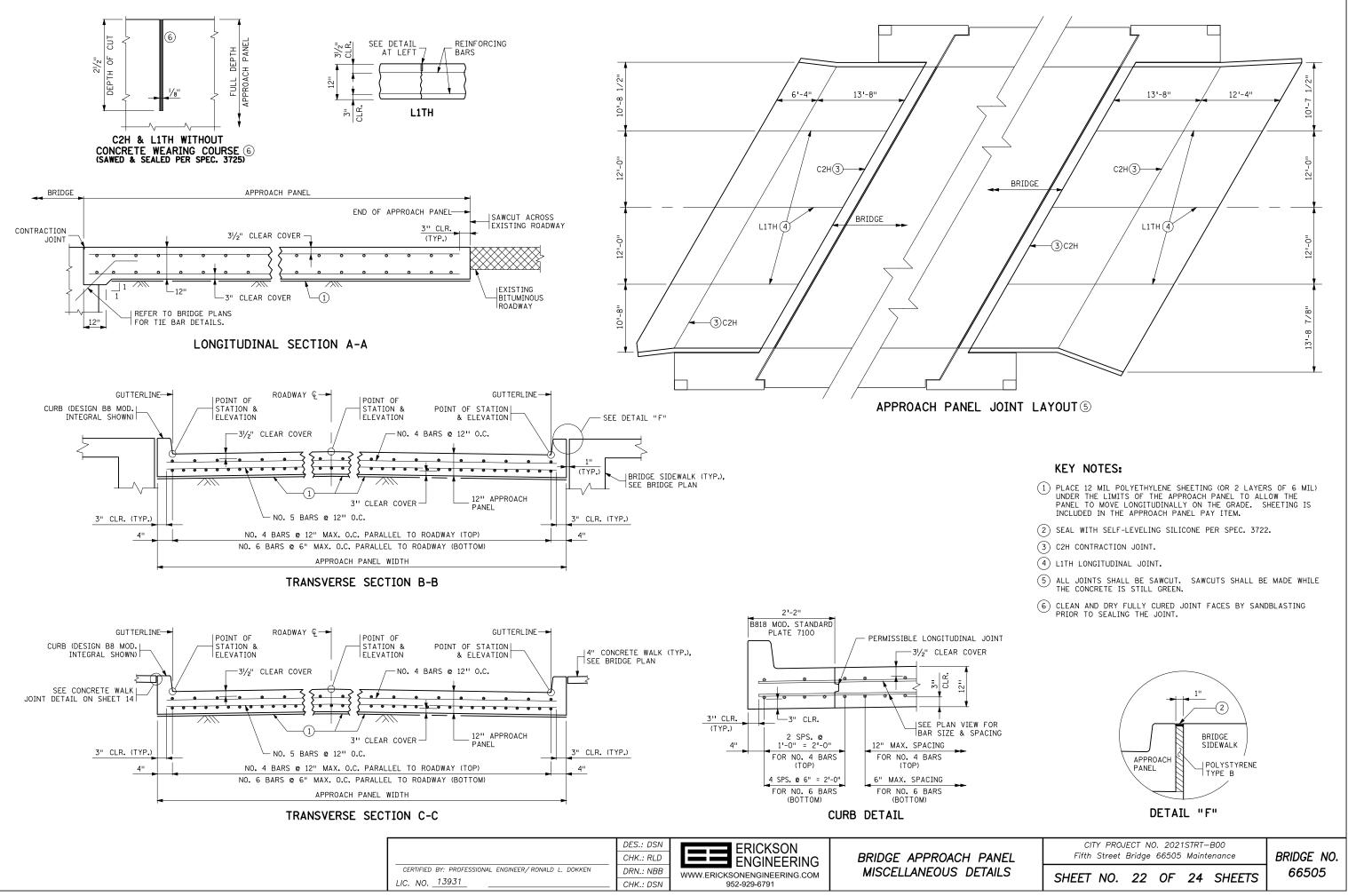
LIC. NO. <u>13931</u>

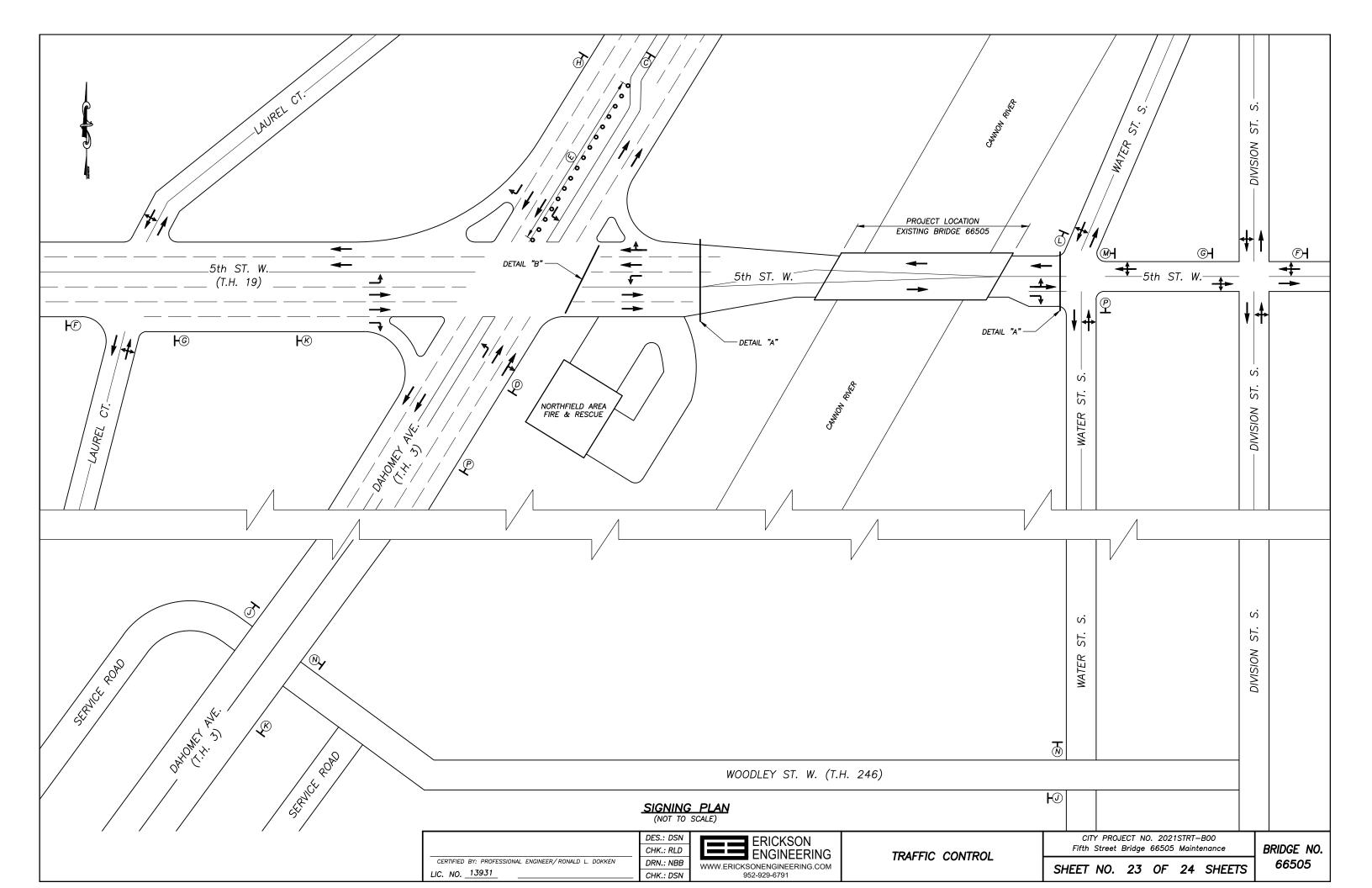
SNOW PLOW PROTECTIO (USE ON SKEWS OVER 15' AND LESS TH

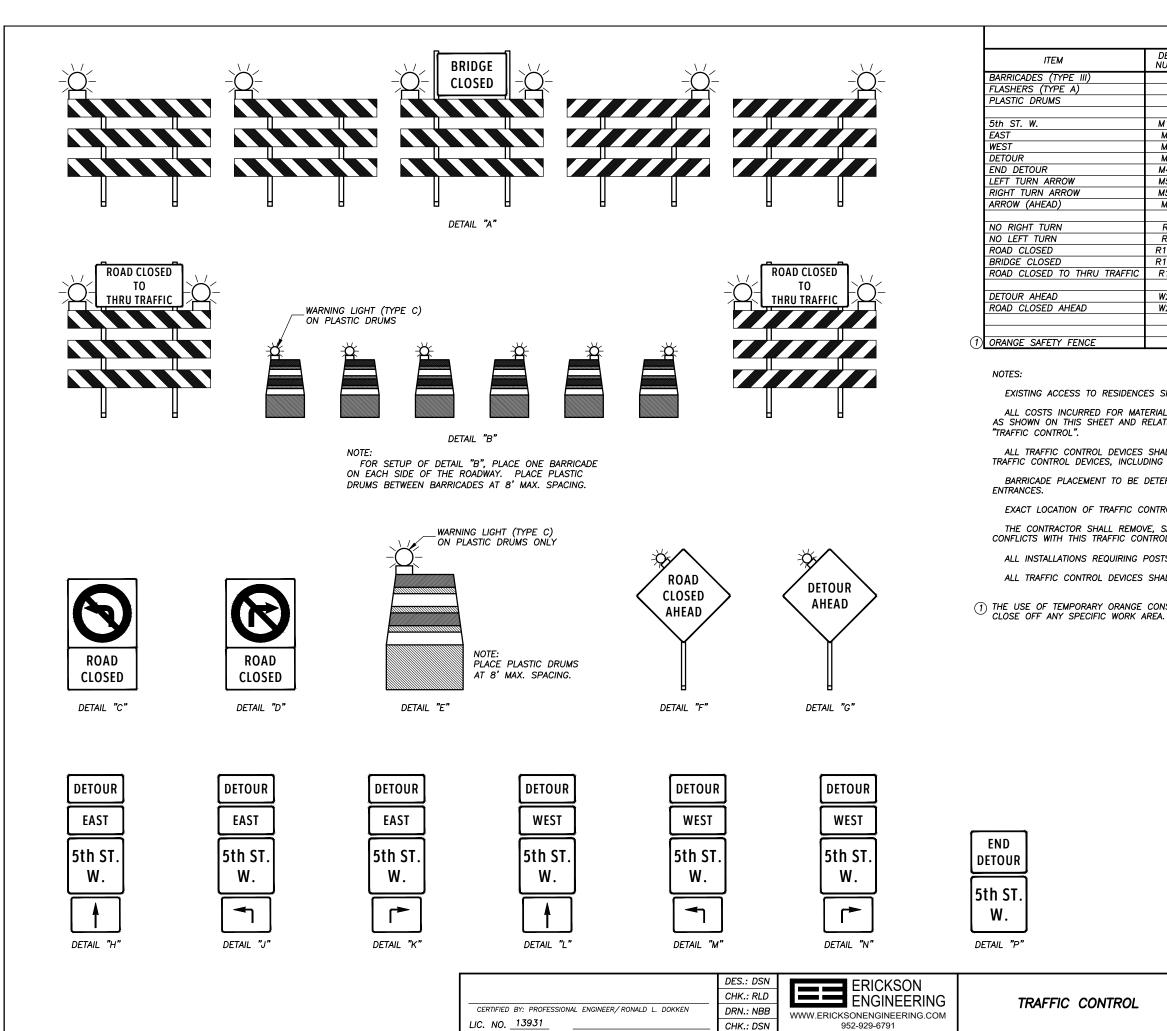
EVICE N	CITY PROJECT NO. 2021STRT—B00 Fifth Street Bridge 66505 Maintenance	BRIDGE NO.
HAN 50°)	SHEET NO. 19 OF 24 SHEETS	66505











TRAFFIC CONTROL DEVICES						
DESIGN NUMBER	F&I BY CONTRACTOR	SIZE	REMARKS			
	12	8' WIDE				
	76					
	66					
M1-X4	11	24" x 24"	LETTERING ~ BLACK ON WHITE			
M3-2	5	24" x 12"	LETTERING ~ BLACK ON WHITE			
M3-4	4	24" x 12"	LETTERING ~ BLACK ON WHITE			
M4-8	9	24" x 12"	LETTERING ~ BLACK ON ORANGE			
M4-8a	2	24" x 18"	LETTERING ~ BLACK ON ORANGE			
M5-1L	3	21" x 15"	LETTERING ~ BLACK ON WHITE			
M5-1R	4	21" x 15"	LETTERING ~ BLACK ON WHITE			
M6-3	2	21" x 15"	LETTERING ~ BLACK ON WHITE			
R3–1	1	36" x 36"	LETTERING ~ BLACK & RED ON WHITE			
R3–2	1	36" x 36"	LETTERING ~ BLACK & RED ON WHITE			
R11–2M	2	36" x 24"	LETTERING ~ BLACK ON WHITE			
R11–2M	2	48" x 30"	LETTERING ~ BLACK ON WHITE			
R11-4	2	60" x 30"	LETTERING ~ BLACK ON WHITE			
W20-2	2	48" x 48"	LETTERING ~ BLACK ON ORANGE			
W20-3	2	48" × 48"	LETTERING ~ BLACK ON ORANGE			

EXISTING ACCESS TO RESIDENCES SHALL BE MAINTAINED THROUGHOUT PROJECT DURATION.

ALL COSTS INCURRED FOR MATERIALS, INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES AS SHOWN ON THIS SHEET AND RELATED WORK DURING CONSTRUCTION SHALL BE INCLUDED IN PRICE BID FOR ITEM

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. BARRICADE PLACEMENT TO BE DETERMINED IN THE FIELD SO AS NOT TO OBSTRUCT VISION TO OR FROM ROADWAY

EXACT LOCATION OF TRAFFIC CONTROL DEVICES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL REMOVE, SALVAGE OR COVER & RESTORE AS APPROPRIATE, ALL EXISTING SIGNING THAT CONFLICTS WITH THIS TRAFFIC CONTROL PLAN TO THE SATISFACTION OF THE ENGINEER.

ALL INSTALLATIONS REQUIRING POSTS SHALL BE A "U" CHANNEL TYPE. MINIMUM WEIGHT PER FOOT - 2.75 lbs. ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

() THE USE OF TEMPORARY ORANGE CONSTRUCTION FENCING MAY BE REQUIRED BY THE ENGINEER TO COMPLETELY CLOSE OFF ANY SPECIFIC WORK AREA.

CITY PROJECT NO. 2021STRT-B00 Fifth Street Bridge 66505 Maintenance

SHEET NO. 24 OF 24 SHEETS

BRIDGE NO. 66505