STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

COUNTY HIGHWAY 007: OLD CHICAGO ROAD AT FORKED CREEK (0.5 MI N OF MANTENO RD) SECTION: CWH 0007 22 BJ PROJECT: HBFP—4NQA(142) BRIDGE DECK OVERLAY, BRIDGE JOINT REPLACEMENT AND REPAIRS WILL COUNTY

C-91-256-22



ATLAS ENGINEERING GROUP, LTD.

Date: 8-1-23

Shipping Prosperi

Expires: 11-30-23

Sheet No. :2-7, 18-25

TOWNSHIPS: WESLEY

GROSS LENGTH = 282 FT. = 0.05 MILE NET LENGTH = 282 FT. = 0.05 MILE

A E G ATLAS ENGINEERING GROUP, LTD.

CONTACT: CHRIS PROSPERI (847) 753-8020

D-91-204-22

CWH 0007 22 BJ

WILL

ILLINOIS CONTRACT NO. 62R87



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED AUGUST 1820 Z3

REGIONAL ENGINEER

ctober 13, 2023

ENGINEER OF DESIGN AND ENVIRONME

October 13, 2023

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ion of illumba

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN WESLEY TOWNSHIP

TRAFFIC DATA

2021 ADT: 1,150

POSTED SPEED LIMIT: 55 MPH FUNCTIONAL CLASSIFICATION:

LOCAL ROAD

0

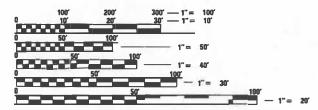
0

0

0

PROJECT LOCATION
OLD CHICAGO ROAD
OVER FORKED CREEK
STRUCTURE NO. 099–4609

T 32N



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123

OR 811

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705–4225
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62R87

REV-SEP

INDEX OF SHEETS

SHEET NO. TITLE

- 1 COVER SHEET
- 2 INDEX OF SHEETS, IDOT HIGHWAY STANDARDS, HMA MIX TABLE & GENERAL NOTES
- 3 4 SUMMARY OF QUANTITIES
- 5 6 DETOUR PLANS
- 7 ROADWAY AND PAVEMENT MARKING PLAN
- 8 17 STRUCTURAL DRAWINGS S.N. 099-4609
- 18 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
- 19 BUTT JOINT AND HMA TAPER DETAILS (BD-32)
- 20 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
- 21 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
- 22 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 23 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
- 24 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 25 RAILROAD CROSSING REPAIR DETOUR SIGNING (TC-28)

HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS

701901-08 TRAFFIC CONTROL DEVICES

HOT-MIX ASPHALT MIXTURE TABLE

QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

MIXTURE TYPE: BUTT JOINT AND APPROACH PAVEMENT OVERLAY	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4% @ 70 GYR	QC/QA
OMP DESIGNATION: OLIALITY CONTROL/OLIALITY ASSURANCE (OC/OA	<i>1</i> •	

MIXTURE REQUIREMENT NOTES:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

GENERAL NOTES

- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK, FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITY AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
- MEADE ELECTRIC COMPANY, THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR, LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES, CALL 773-287-7672 FOR THE INITIAL LOCATE. REQUEST FOR LOCATES OF PREVIOUSLY MARKED FACILITIES MAY BE AT THE CONTRACTOR'S EXPENSE.
- 3. IN ADDITIONAL TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSION AND CONDITIONS EXISTING IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.
- 6. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11/G/1/ THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@LLLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 10. THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, AREA TRAFFIC ENGINEER, AT ERIC.CAMPOS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT.
- 11. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A USACE PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE PERMIT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPOSE USACE PERMITS. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO SECURE AND COMPLY WITH A USACE PERMIT FOR CONTRACTOR'S ACTIVITIES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 12. THESE PLANS HAVE BEEN PREPARED FORM NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
- 13. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 14. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- 15. FOR WORK OUTSIDE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
- 16. RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS-RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN PLAN.
- 17. THE CENTERLINE IS FOR INFORMATION ONLY.
- 18. STRUCTURAL CONCRETE REMOVED AS DIRECTED BY THE ENGINEER FOR THE ADJUSTMENT OF THE DRAINAGE STRUCTURES TO THE FINAL GRADE SHALL BE RECONSTRUCTED ACCORDING TO THE APPROACH SLAB REPAIR SPECIFICATION. COST OF THE CONCRETE REMOVAL, DISPOSAL AND RECONSTRUCTION IS INCLUDED WITH THE ASSOCIATED "INLETS TO BE ADJUSTED" PAY ITEM AS INCLUDED IN THE ROADWAY PLANS.

SCALE:

19 THE ENGINEER OR CONTRACTOR SHALL SUBMIT AN OPER 2410 FORM TO THE IDOT CENTRAL BUREAU OF OPERATIONS VIA DOT.ROADINFO@ILLINOIS.GOV NOTING THE CLOSURE OF OLD CHICAGO RD OVER THE FORKED RIVER AT LEAST 21 DAYS PRIOR TO THE ACTUAL RESTRICTION BECOMING EFFECTIVE. REVISED OPER 2410 FORMS MUST BE SUBMITTED AS NECESSARY DURING THE LIFE OF THE CONSTRUCTION PROJECT. IF YOU HAVE ANY QUESTIONS OR REQUIRE FURTHER INFORMATION, PLEASE CONTACT MICHAEL OLSON WITH THE BUREAU OF OPERATIONS AT (217) 782-8551. BLANK OPER 2410 FORMS CAN BE OBTAINED AT HTTPS://IDOT.ILLINOIS.GOV/HOME/RESOURCES/FORMS-FOLDER/O.

	USER NAME = nappe l t	DESIGNED - CMP	REVISED -
A E G ATLAS ENGINEERING		DRAWN - NKA	REVISED -
GROUP, LTD.	PLOT SCALE = N/A	CHECKED - BA	REVISED -
	PLOT DATE = 8/7/2023	DATE - 8/7/23	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INI	DEX OF	SHEETS, I	DOT HIG	HWAY	STANDARDS,	C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HMA MIX TABLE & GENERAL NOTES					007	CWH 0007 22 BJ	WILL	25	2	
HIVIA IVIIA TADLE & GENERAL IVOTES								CONTRACT	NO. 62	2R87
	SHEET	OF	SHEETS	STA	TO STA		TILLINOIS FED AT	D. DDOJECT		

				80% FEDERAL
		T		20% STATE BRIDGE
CODE			TOTAL	
CODE	LTCM	LINIT	TOTAL	0059
NO.	ITEM	UNIT	QUANTITY	RURAL
				9
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	182	182
				-
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	218	218
	_			*-
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	52	52
44000157	HOT MAY ASSUALT SUBSACS REMOVAL OF	50. VD	121	121
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	121	121
50102400	CONCRETE REMOVAL	CU YD	15.9	15.9
30102400	CONCRETE REMOVAE	CO 1D	13.3	15.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	17.2	17.2
				=
50300260	BRIDGE DECK GROOVING	SQ YD	424	424
50300300	PROTECTIVE COAT	SQ YD	553	553
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	210	210
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,540	2,540
52000110	PREFORMED JOINT STRIP SEAL	FOOT	58	58
52100520	ANCHOR BOLTS, 1"	EACH	8	8
60260100	INLETS TO BE ADJUSTED	EACH	4	4
# 63000001	CTEEL DIATE DEAM CHARDDRAIL TYDE A 6 FOOT DOCTO	FOOT	112 5	112 5
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	112.5	112.5
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
	·			

				20% STATE
		T		BRIDGE
CODE			TOTAL	0059
NO.	ITEM	UNIT	QUANTITY	RURAL
			,	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	138	138
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	59	59
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	277	277
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	327	327
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
X0325748	ACRYLIC COATING	SQ YD	17	17
X0325749	FIBER WRAP	SQ FT	115	115
X0326697	CENTER LINE - RUMBLE STRIP - 8"	FOOT	139	139
X5060700	CLEANING AND PAINTING BEARINGS	EACH	12	12
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12

^{* =} SPECIALTY ITEM

A E G GROUP, LTD.	AEG	ATLAS ENGINEERING GROUP, LTD.
-------------------	-----	----------------------------------

	USER NAME = nappelt	DESIGNED	СМР	REVISED =
•		DRAWN	NKA	REVISED =
	PLOT SCALE = N/A	CHECKED	ВА	REVISED -
	PLOT DATE = 8/16/2023	DATE	8/16/23	REVISED -

SCALE:

CONSTR. CODE

	SUMMARY OF QUANTITIES						SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
						007	CWH 0007 22 BJ		WILL	25	3
							- N		CONTRACT	NO. 62	2R87
1.0	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		

CONSTR. CODE

80% FEDERAL

CONSTR. CODE 80% FEDERAL 20% STATE

CODE NO. 010216	ITEM TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	UNIT L SUM	TOTAL QUANTITY	0059 RURAL
010216				RURAL
	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	
	The country in the received, (streether)	2 3011		1
800815				<u> </u>
	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	40	40
001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	3	3
001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	3	3
006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 ½ INCHES	SQ YD	393	393
012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	393	393
012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	4	4
015550	DEBRIS REMOVAL	CU YD	3	3
016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	1	1
018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4	4
030850	TEMPORARY INFORMATION SIGNING	SQ FT	54.6	54.6
032400	JOINT REPAIR	EACH	18	18
043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	48	48
073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1
	001800 006014 012130 012754 015550 016002 018051 030850	APPROACH SLAB REPAIR (PARTIAL DEPTH) DOES 100000 APPROACH SLAB REPAIR (PARTIAL DEPTH) DOES 1000014 BRIDGE DECK LATEX CONCRETE OVERLAY, 2 ½ INCHES DOES 1012130 BRIDGE DECK SCARIFICATION ¾" DOES 1012754 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) DOES 1015550 DEBRIS REMOVAL DOES 1015550 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE II) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III) DOES 1016002 DECK SLAB REPAIR (FULL DEPTH, TYPE III)	APPROACH SLAB REPAIR (PARTIAL DEPTH) SQ YD DOBOTO BRIDGE DECK LATEX CONCRETE OVERLAY, 2 ½ INCHES SQ YD DOLL 100 DOLL 100 BRIDGE DECK SCARIFICATION ¾" SQ YD DOLL 100 D	201800 APPROACH SLAB REPAIR (PARTIAL DEPTH) SQ YD 3

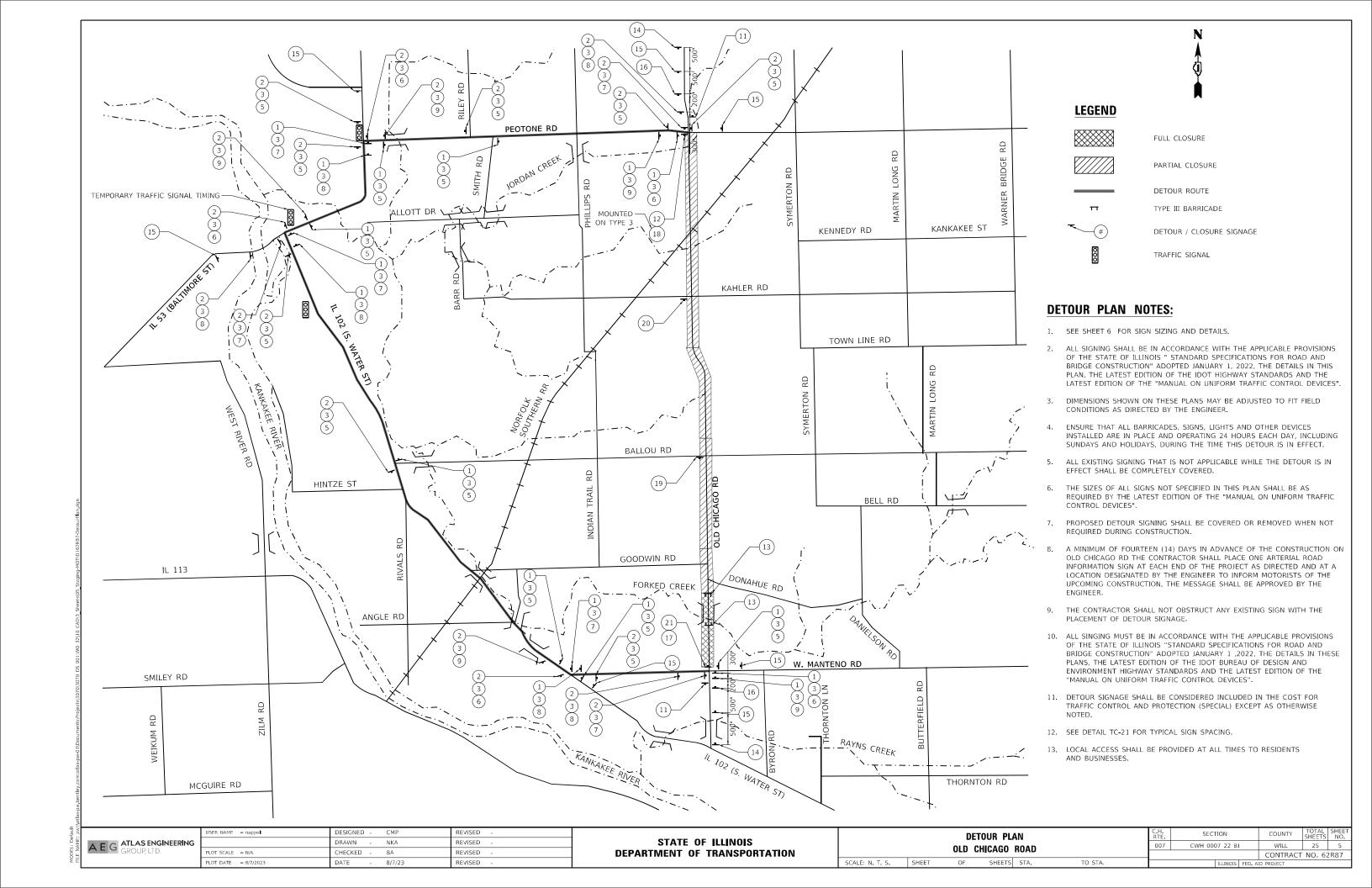
* = SPECIALTY ITEM

A E G ATLAS ENGINEERING GROUP, LTD.

	USER NAME = nappelt	DESIGNED	-	CMP	REVISED	-
;		DRAWN	-	NKA	REVISED	-
	PLOT SCALE = N/A	CHECKED	-	BA	REVISED	-
	PLOT DATE = 8/7/2023	DATE	-	8/7/23	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	C.H. RTE.	SECT	ΠΟN		COUNTY	TOTAL SHEETS	SHEET NO.					
	007	CWH 000	07 22 B.	J	WILL	25	4					
										CONTRACT	NO. 62	2R87
SCALE:	SCALE: SHEET OF SHEETS STA. TO STA.							ILLINOIS	FED. A	ID PROJECT		











OLD **CHICAGO** ROAD

(3)

















24X12

SOUTH M3-3 24X12

SPECIAL

24X25

(4)

NOT USED

DETOUR 1

M4-9S

30X24

DETOUR \leftarrow M4-9L

30X24

DETOUR \rightarrow

M4-9R

30X24

DETOUR M4-9R

30X24

DETOUR

M4-9L

30X24

END DETOUR

M4-8a 24X18



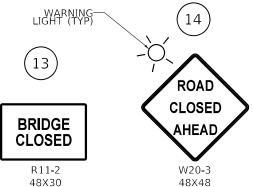
BRIDGE OUT 5 MILES AHEAD LOCAL TRAFFIC ONLY

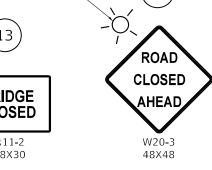
R11-3B 60X30

(19`

BRIDGE OUT 1 1/2 MILES AHEAD **LOCAL TRAFFIC ONLY**

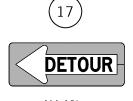
> R11-3B 60X30













(18`

M4-10L 48X18

M4-10R 48X18

(20

BRIDGE OUT 3 MILES AHEAD LOCAL TRAFFIC ONLY

> R11-3B 60X30

BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY

21

R11-3B 60X30

DETOUR PLAN GENERAL NOTES:

- 1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022 THE DETAILS IN THIS PLAN, THE LATEST EDITION OF THE IDOT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"
- SIGNS 1-11 AND 14-18 SHALL HAVE BLACK LEGEND ON A FLOURESCENT ORANGE (RETROREFLECTIVE) BACKGROUND.
- SIGNS 12-13 AND 19-20 SHALL HAVE A BLACK LEGEND ON A WHITE (RETROREFLECTIVE) BACKGROUND.

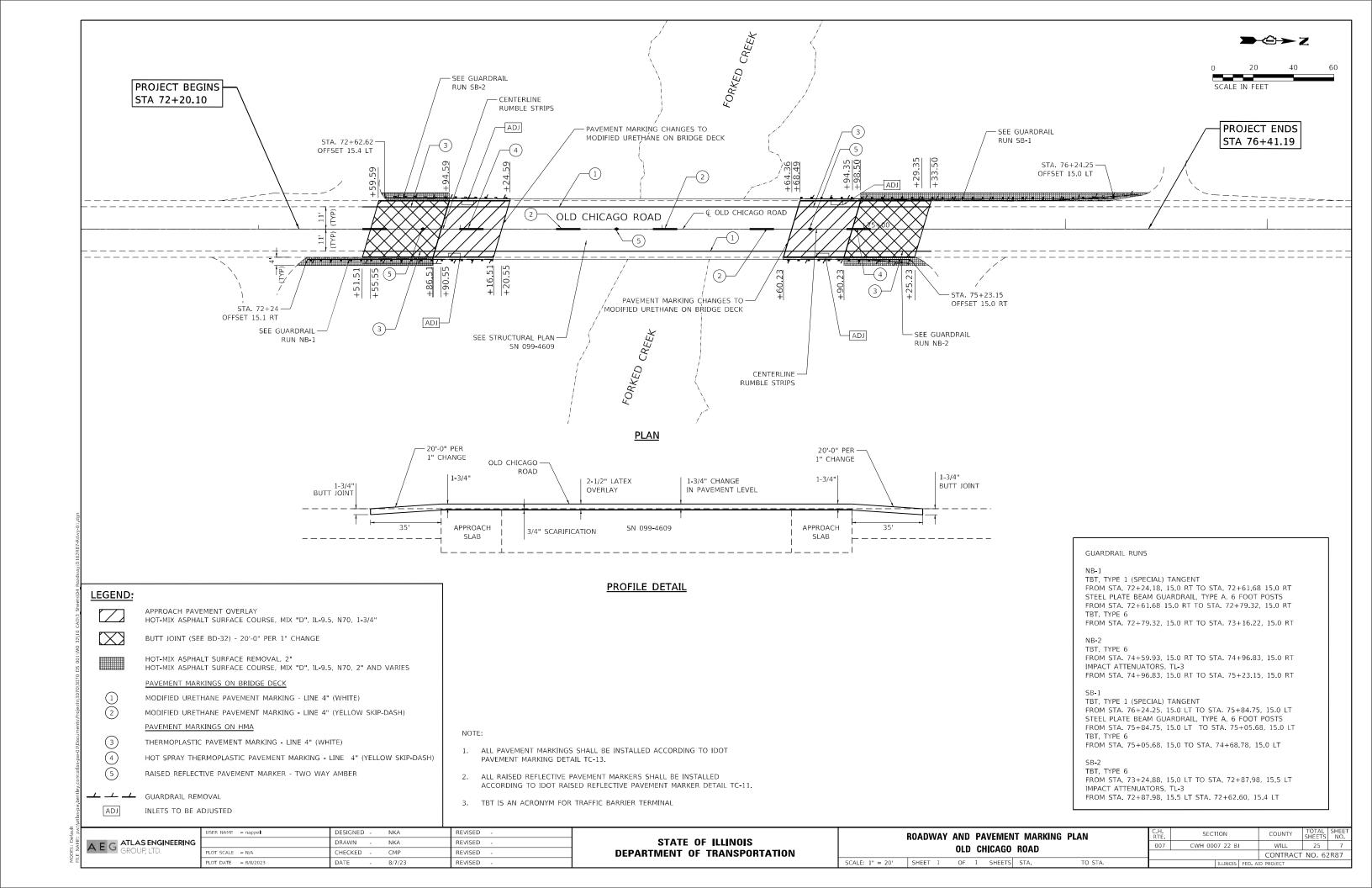


AEG ATLAS ENGINEER GROUP, LTD.	RING

USER NAME = nappelt	DESIGNED - CMP	REVISED -
	DRAWN - NKA	REVISED -
PLOT SCALE = N/A	CHECKED - BA	REVISED -
PLOT DATE = 8/7/2023	DATE - 8/7/23	REVISED -

	DETOU		N DETAILS CHICAGO		NOTES	
SCALE: N. T. S.	SHEET	OF	SHEETS	STA.		TO STA.

C.H. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
007	CWH 0007 22 BJ		WILL	25	6	
				CONTRACT	NO. 62	2R87
ILLINOIS FED. A				D PROJECT		



Bench Mark: Cut in north end of east headwall of bridge over Forked Creek on Old Orchard Road, Elev. 595.40. All elevations are from the 1994 bridge plans.

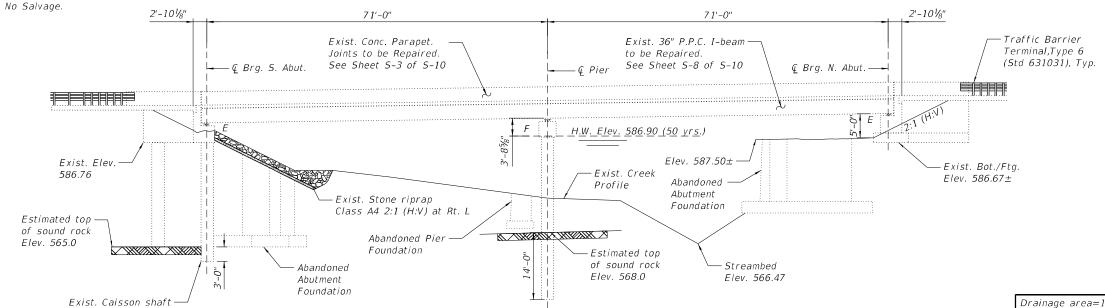
Existing Structure: Previous S.N. 099-0158 constructed in 1930 and removed in 1994. The abutment and pier foundations were abandoned.

S.N. 099-4609, constructed in 1994 is a two-span bridge (71'-0"/71'-0") with a total length of $147'-8\frac{1}{4}''$ (back to back of abutment), an overall width of 29'-2''(out to out of deck), and a skew angle of 15° to the CL of the roadway. The superstructure consists of a 71/2" thick concrete slab on 6 Precast Prestressed Concrete I-Beams, 36".

The substructure consists of reinforced concrete abutments, wingwalls, pier and caissons.

Traffic to be maintained by a detour.

30" Min. Dia. Typ.



ELEVATION

LOADING HS 20-44 (EXIST.)

No future wearing surface.

DESIGN STRESSES

FIELD UNITS (NEW. CONST.)

f'c = 3,500 psi (Substructure)f'c = 4,000 psi (Superstructure)

fy = 60,000 psi (Reinforcing Steel) fy = 50,000 psi (Structural Steel)

FIELD UNITS (EXIST. CONST.)

Cast in place reinforced concrete

f'c = 3,500 psi (Concrete)

fv = 60.000 psi (Reinforcing Steel)

Structural Steel

fy = 36,000 psi (M270, Grade 36) fy = 50,000 psi (M270, Grade 50)

Pre-stressed concrete

f'c = 6,000 psi

f'ci = 5,000 psi

 $f's = 270,000 \text{ psi } (\frac{1}{2}'' \text{ dia. low relaxation strands})$

 $f'si = 201,960 \text{ psi } (\frac{1}{2}'' \text{ dia. low relaxation strands})$

DESIGN SPECIFICATIONS (NEW CONST.)

2002 AASHTO Standard Specification for Highway Bridges, 17th Edition.

2012 AASHTO Guide Specification for Design of Bonded FRP Systems for Repair, First Edition.

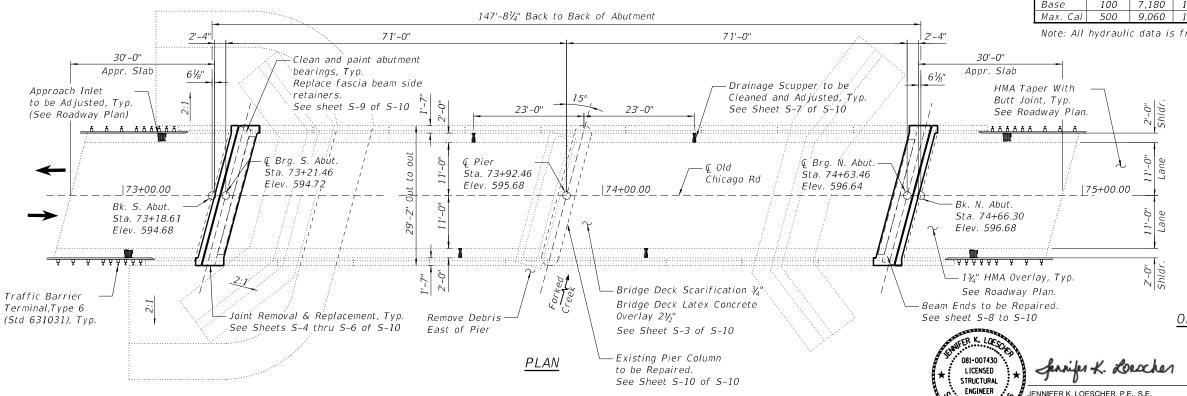
DESIGN SPECIFICATIONS (EXIST.)

AASHTO 1992 Standard Specifications for Highway Bridges and 1993 Interim Specifications.

WATERWAY INFORMATION

Drainage	area=10	1 sq.mi.	Low G	Low Grade Elev.=591.20 Sta. 69+97.46						
Flood	Freq.	Q	Opening	Sq. Ft.	NAT	Неас	d−Ft	Headwater El.		
11000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	4,370	837	837	585.5	0	0	585.5	585.5	
Design	50	6,370	970	970	586.9	0	0	586.9	586.9	
Base	100	7,180	1,009	1,009	587.3	0	0	587.3	587.3	
Max. Cal	500	9,060	1,105	1,105	588.3	0.2	0.2	588.5	588.5	

Note: All hydraulic data is from 1994 bridge plans.



 Existina Structure LOCATION SKETCH

GENERAL PLAN AND ELEVATION OLD CHICAGO ROAD OVER FORKED CREEK C.H. RTE. 007 SEC. CWH 0007 22 BJ

WILL COUNTY STATION 73+92.46 STRUCTURE NO. 099-4609

A E G ATLAS ENGINEERIN

	USER NAME =	DESIGNED - FM	REVISED -
NG		CHECKED - JKL	REVISED -
	PLOT SCALE = 1"=10'	DRAWN - KB	REVISED -
	PLOT DATE =	CHECKED - 8/1/22	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **GENERAL PLAN AND ELEVATION** STRUCTURE NO. 099-4609 SHEET S-1 OF S-10 SHEETS

DATE: 8/1/2023 NO. 081-007430 EXP. DATE 11/30/2024

JENNIFER K. LOESCHER, P.E., S.E.

C.H. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
007	CWH 0007 22 BJ			WILL	25	8	
				CONTRACT NO. 62R87			
		ILLINOIS	FED. A	ID PROJECT			

S-3. Deck Repair

S-4. Joint Removal & Replacement Details

S-5. Joint Removal & Replacement Details

S-6. Preformed Joint Strip Seal

S-7. Drainage Scupper Adjustment Details

S-8. Beam Repair

S-9. Bearing Repair S-10. Pier Repair

SCOPE OF WORK

- 1. Perform $\frac{3}{4}$ " bridge deck scarification.
- 2. Remove full depth concrete of deck ends, parapet ends, hatch block, and approach slab repair.
- 3. Perform structural repair on pier concrete.
- 4. Clean and paint bearings. Replace fascia beam bearing side retainers at abutments.
- Clean and adjust drainage scuppers and approach inlets.
- Repair beams with Precast Prestressed Concrete I-beam Repair, Fiber Wrap, and Acrylic Coat.
- 7. Complete concrete deck and approach slab repairs.
- 8. Reconstruct deck ends, parapet ends, and hatch block.
- 9. Install preformed joint strip seal.
- 10. Place $2\frac{1}{2}$ " bridge deck latex concrete overlay.
- 11. Place 13/4" HMA overlay on approach slabs. (See Roadway Plans)
- 12. Perform bridge deck grooving.
- 13. Apply protective coat to bridge deck and parapets.
- 14. Replace parapet joint sealant.
- 15. Remove debris at east end of pier.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor shall be paid for the quantity actually furnished at the unit price bid for the work. Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC- SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the joint concrete is poured at an ambient temperature other

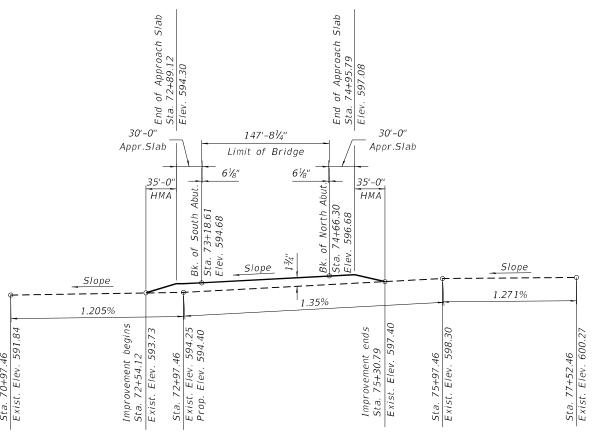
Cleaning and painting of the existing steel bearings shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures."

Calculated Weight of Structural Steel=210 lb.

All Structural Steel shall be AASHTO M270. Grade 50 and shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."

Structural concrete removed as directed by the Engineer for the adjustment of the Drainage Structures to the final grade shall be reconstructed according to the Approach Slab Repair specification. Cost of the concrete removal, disposal and reconstruction is included with the associated "Inlets to be Adjusted" pay item as included in the Roadway Plans.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.



PROPOSED PROFILE GRADE

At & Old Chicago Road

A E G ATLAS ENGINEERING

USER NAME =	DESIGNED -	-	FM	REVISED	-
	CHECKED -	-	JKL	REVISED	-
PLOT SCALE = 1=1	DRAWN -	-	KB	REVISED	-
PLOT DATE =	CHECKED -	-	8/1/23	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

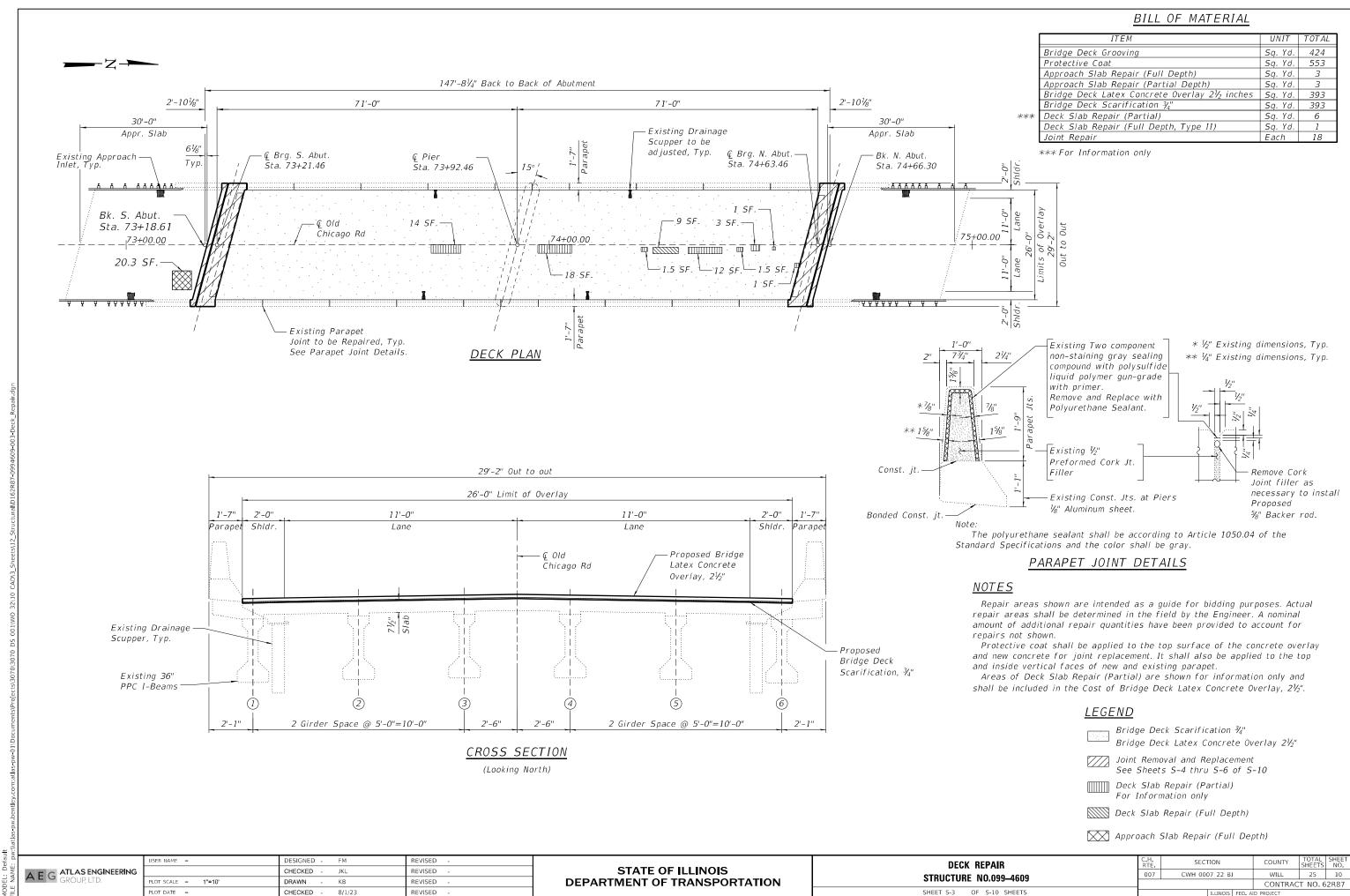
SECTION **GENERAL DATA** CWH 0007 22 BJ WILL 25 **STRUCTURE NO.099-4609** SHEET S-2 OF S-10 SHEETS

TOTAL BILL OF MATERIAL

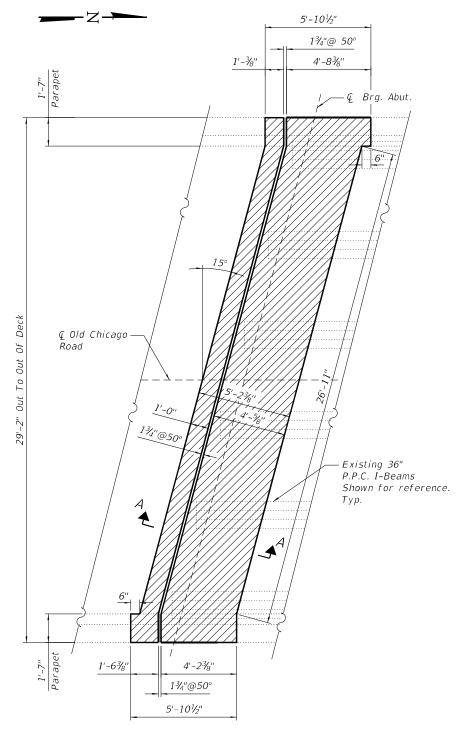
	ITEM	UNIT	SUPER	SUB	TOTAL
	Concrete Removal	Cu. Yd.	15.9	-	15.9
	Concrete Superstructure	Cu. Yd.	17.2	-	17.2
	Bridge Deck Grooving	Sq. Yd.	424	-	424
	Protective Coat	Sq. Yd.	553	-	553
**	Furnishing and Erecting Structural Steel	Pound	210	-	210
	Reinforcement Bars, Epoxy Coated	Pound	2540	-	2540
	Preformed Joint Strip Seal	Foot	58	-	58
	Anchor Bolts, 1"	Each	8	-	8
*	Acrylic Coating	Sq. Yd.	17	-	17
*	Fiber Wrap	Sq. Ft.	115	-	115
**	Cleaning and Painting Bearings	Each	-	12	12
*	Approach Slab Repair (Full Depth)	Sq. Yd.	3	-	3
*	Approach Slab Repair (Partial Depth)	Sq. Yd.	3	-	3
**	Bridge Deck Latex Concrete Overlay, 2½ Inches	Sq. Yd.	393	-	393
*	Bridge Deck Scarification, ¾"	Sq. Yd.	393	-	393
**	Structural Repair of Concrete	Sq. Ft.	_	4	4
	(Depth Equal to or Less than 5 inches)	39.71.		,	
*	Debris Removal	Cu. Yd.	-	3	3
**	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1	-	1
*	Drainage Scupper to be Adjusted	Each	4	-	4
*	Joint Repair	Each	18	-	18
*	Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	48	-	48

* See Special Provisions

** See GBSP



8/7/2023 2:19:09 PM



CONCRETE REMOVAL PLAN
(South Abutment Shown.

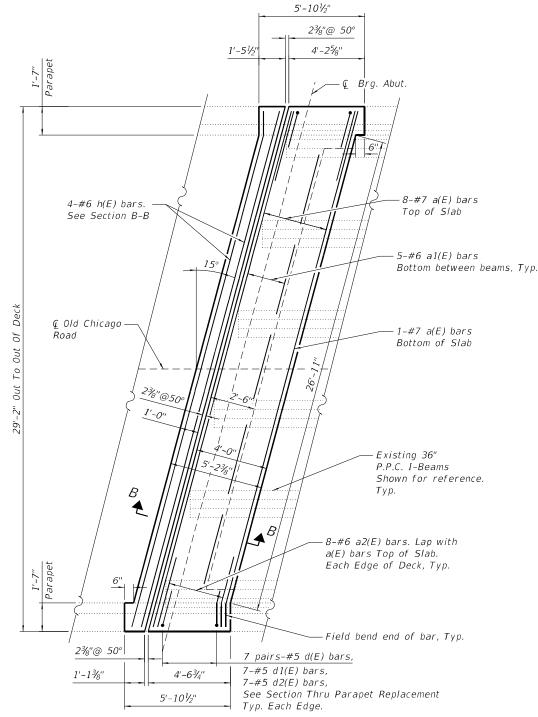
North Abutment Similar.)

Notes:

Existing reinforcement shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.

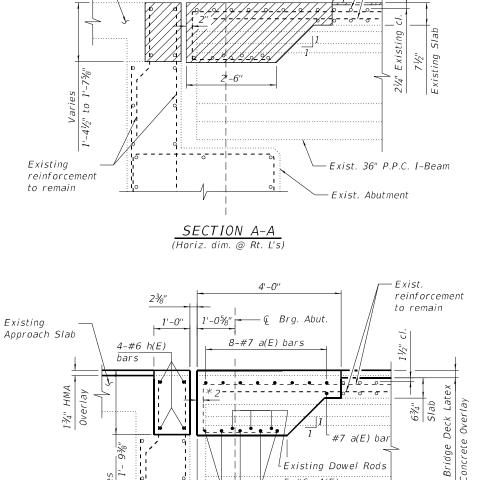
Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Removal of existing joint system is included with Concrete Removal. See Sheet S-5 of S-10 for Section Thru Parapet and Bill of Material.



CONCRETE REPLACEMENT PLAN

(South Abutment Shown. North Abutment Similar.)



4'-05/8"

@ Brg. Abut.

1'-0"

Existing

Approach

Slab

1'-11/4'

<u>LEGEND</u>

SECTION B-B

(Horiz. dim. @ Rt. L's)

Concrete Removal

5-#6 a1(E)

bars between beams

Exist. 36" P.P.C. I-Beam

Exist. Abutment

* Straighten existing bar and

field bend to provide 2" clr.

A E G ATLAS ENGINEERING GROUP, LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS
STRUCTURE NO.099-4609

SHEET S-4 OF S-10 SHEETS

Exist. reinforcement

to remain

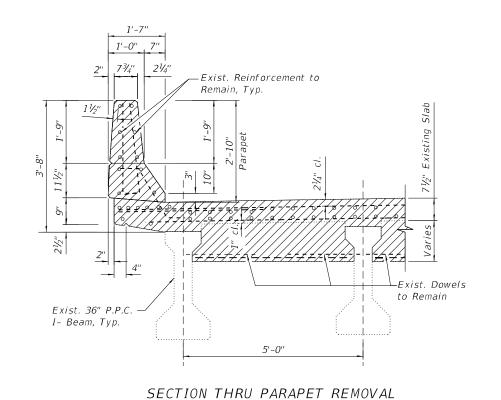
−¾" Sawcut Typ.

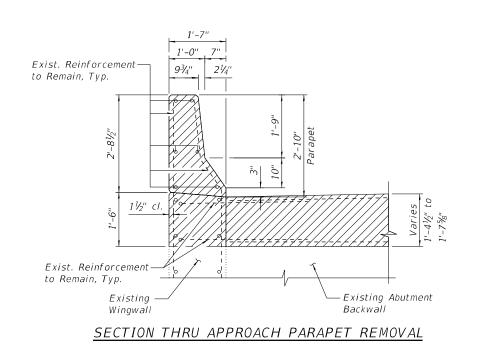
reinforcement

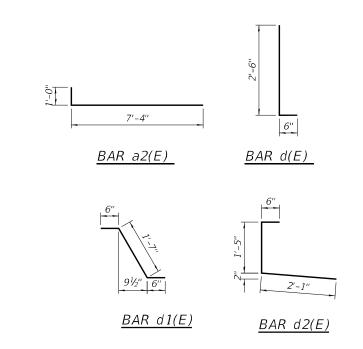
Deck Scarification

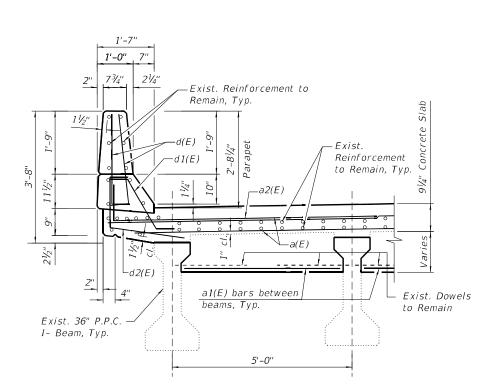
¾" Bridge

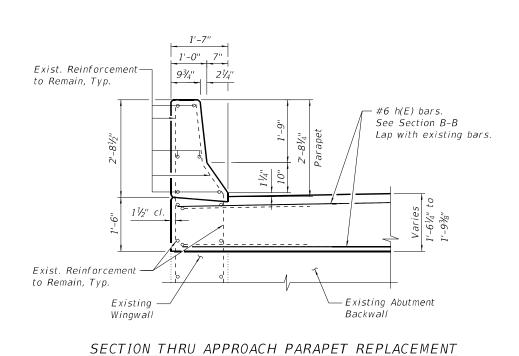
to remain











BILL OF MATERIAL FOR TWO JOINTS

Bar	No.	Size	Length	Shape
a(E)	18 #7		29'-7"	
a1(E)	50	#6	4'-4"	
a2(E)	32	#6	8'-4"	
d(E)	56	#5	3'-0"	
d1(E)	28	#5	2'-7"	$\neg \overline{}$
d2(E)	28	#5	4'-0"	
h(E)	8	#6	29'-10"	
Concrete	e Remova	Cu Yd	15.9	
Concrete	Supers	Cu Yd	17.2	
Reinford Epoxy C	ement Ba oated	Pound	2540	

LEGEND

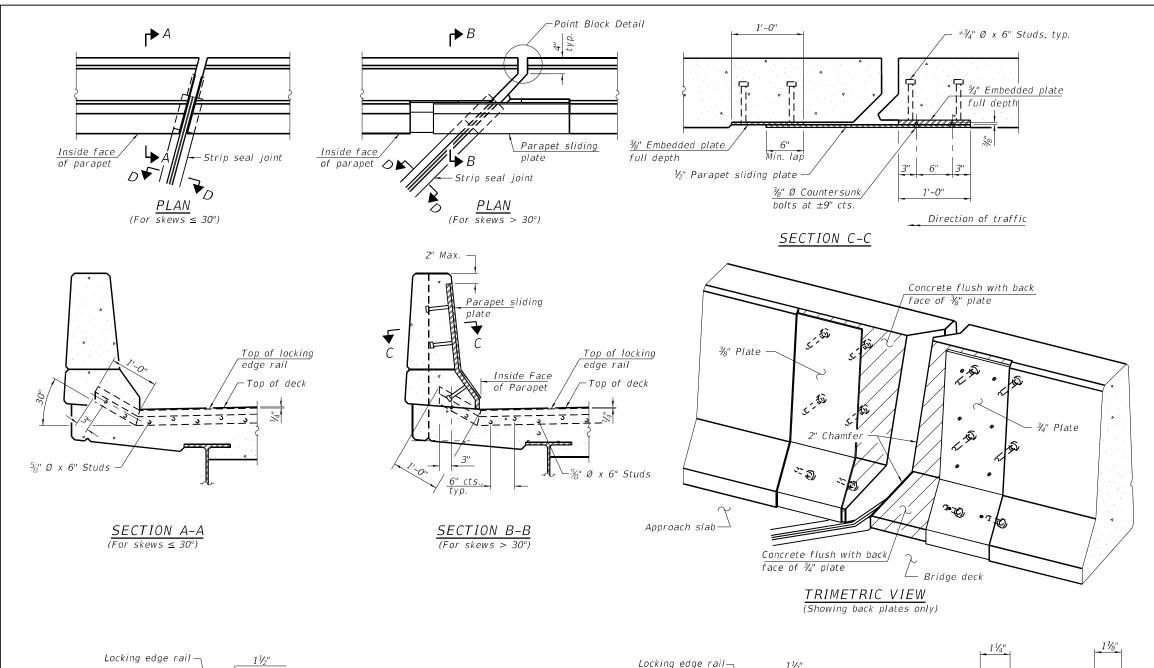
Concrete Removal

SECTION THRU PARAPET REPLACEMENT

۵.		U
NAME:	A E G ATLAS ENGINEERING GROUP, LTD.	
	GROUP, LTD.	PΙ
Щ		PL

	USER NAME =	DESIGNED - KB	REVISED -
G		CHECKED - JKL	REVISED -
	PLOT SCALE = 3/8"=1'-0"	DRAWN - KB	REVISED -
	PLOT DATE =	CHECKED - 8/1/23	REVISED -

		C.H. SECTION		TOTAI SHEET
		CWH 0007 22 BJ	WILL	25
			CONTRAC	ΓNO.
SHEET S-5 OF S-10 SHEETS		ILLINOIS FED	AID PROJECT	



Not

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

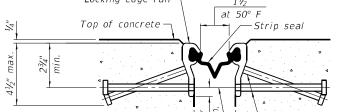
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

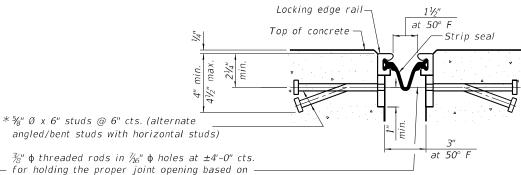
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

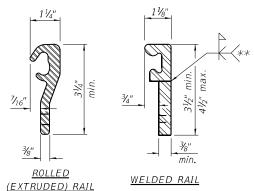


at 50° F

SHOWING ROLLED RAIL JOINT

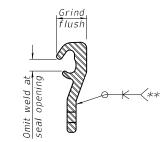


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar

BILL OF MATERIAL FOR TWO JOINTS

Item	Unit	Total
Preformed Joint Strip Seal	Foot	58



	USER NAME =	DESIGNED - KB	REVISED -
RING		CHECKED - JKL	REVISED -
	PLOT SCALE = 1=1	DRAWN - KB	REVISED -
	PLOT DATE =	CHECKED - 8/1/23	REVISED -

the temperature during the deck pour. Place to

miss studs. All rods shall be burned, or sawed

off flush with the plates after concrete is set.

SECTION D-D

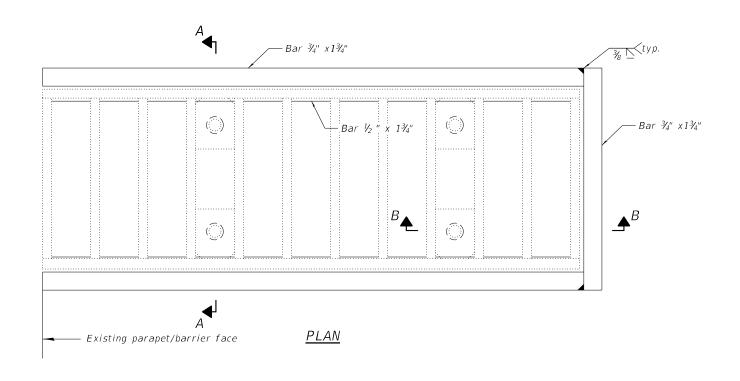
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED Structur			
SHEET S-6	OF	S-10 SH	EETS

E.	SECT	ПОИ			COUNTY	TOTAL SHEETS	SHEET NO.
07	CWH 000	07 22 BJ	l	T	WILL	25	13
				T	CONTRACT	NO. 6	2R87
		TELIMOIS	EED /	ΛĪ	D DROJECT		

8/7/2023 2:19:20 PM



NOTES:

Existing drainage scupper grates shall be adjusted so that the top of the existing grate is flush with the top of the bridge deck overlay.

Proposed structural steel for adjusting the scupper grates shall be AASHTO Classification M-270 Gr. 36. All proposed components adjusting the scupper grates shall be hot dipped galvanized.

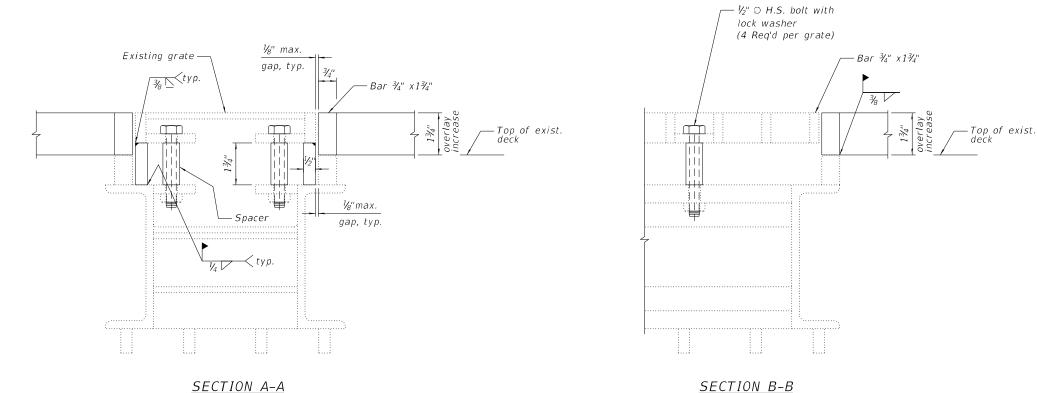
Bolts shall be ½" ⊘ ASTM F3125 Grade A325 Type 1, hot dipped galvanized. Spacer may be fabricated from round steel pipe.

The Contractor shall ensure that no damage is done to the existing grates to be reused. Shop plans for the proposed scupper adjusment ring shall be submitted to the Engineer for approval prior to fabrication.

The Contractor shall field verify the type of scupper present and the scupper dimensions. Galvanizing for field welded areas shall be repaired per ASTM A 780.

Cost of all labor and materials necessary to remove existing grates, clean existing scuppers and downspouts, furnish and install scupper adjustment ring, and reinstall the grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.

These scupper adjustment details are intended for a steel drainage scupper. The Contractor shall confirm the material of the existing drainage scuppers and may propose a cast iron adjustment ring detail if necessary.



ITEM	ITEM	TOTAL
Drainage Scuppers to be Adjusted	Each	4

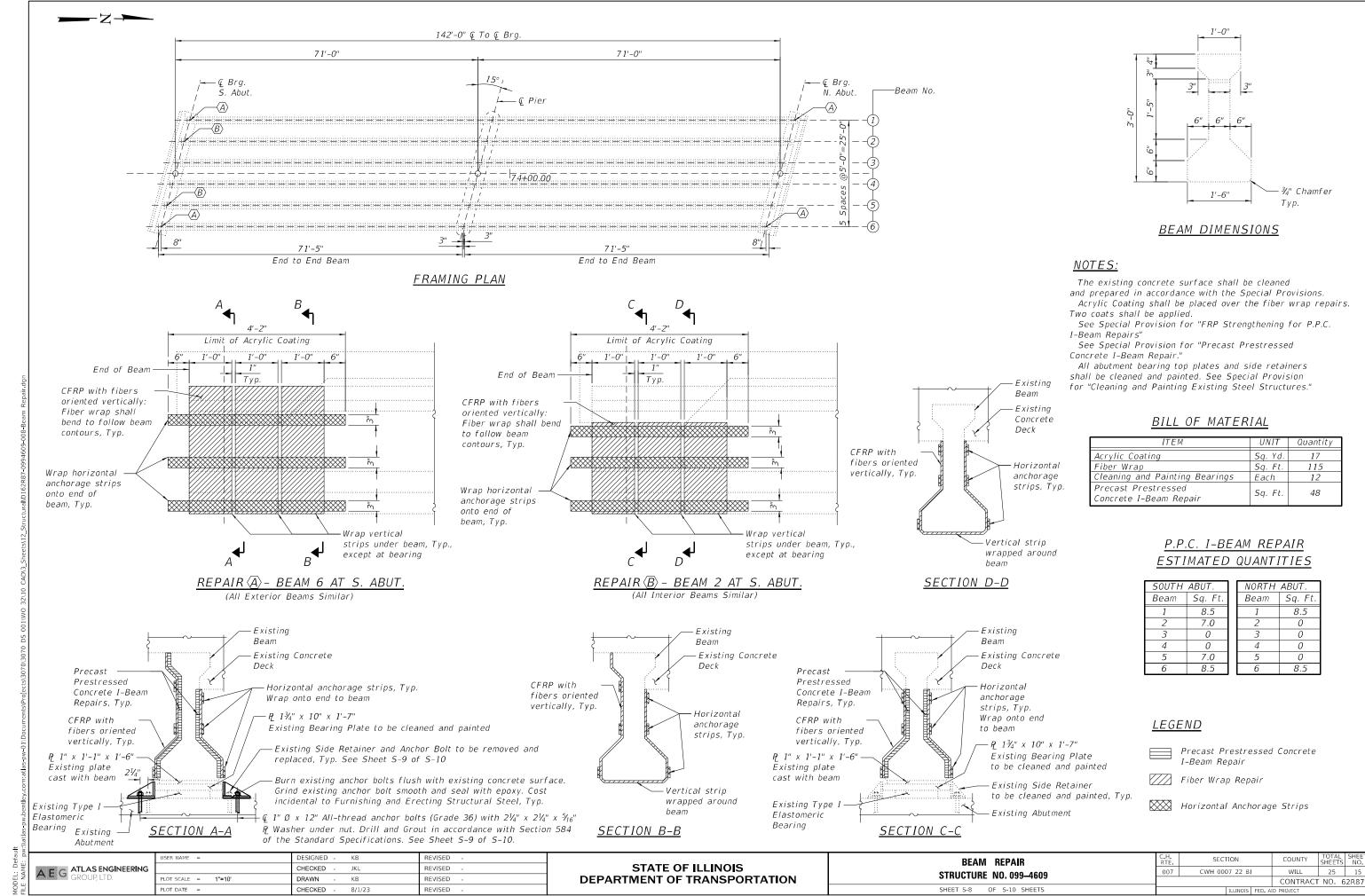
25 14

A E G GROUP, LTD.	AEG	ATLAS ENGINEERING GROUP, LTD.
-------------------	-----	---

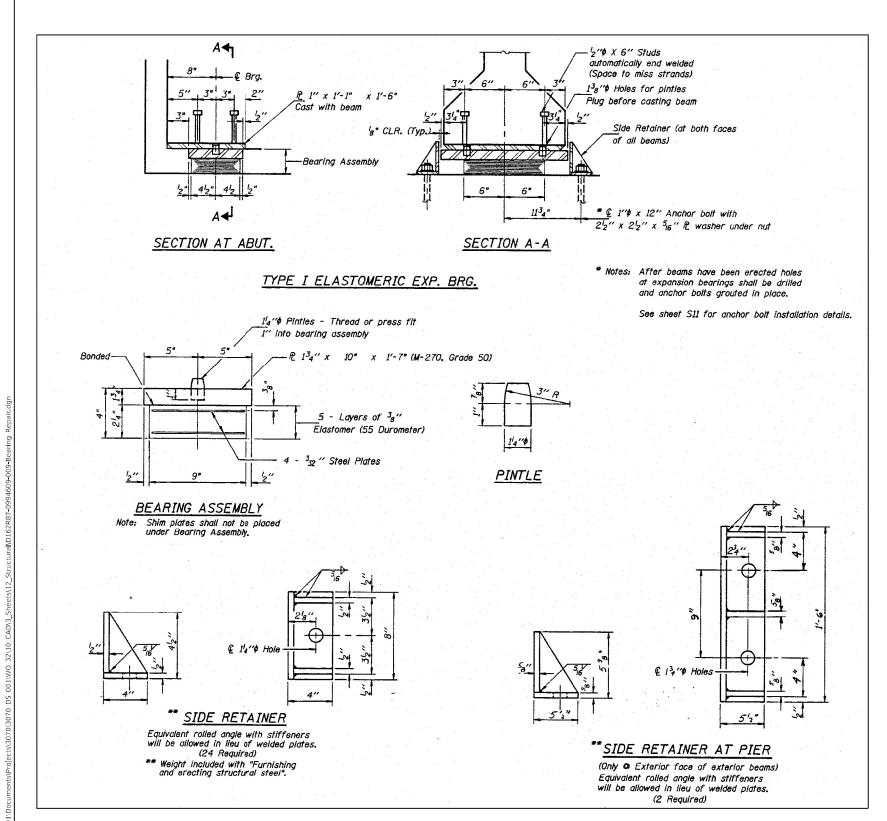
	USER NAME =	DESIGNED - KB	REVISED -
3		CHECKED - JKL	REVISED -
	PLOT SCALE = 6"=1'-0"	DRAWN - KB	REVISED -
	PLOT DATE =	CHECKED - 8/1/23	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

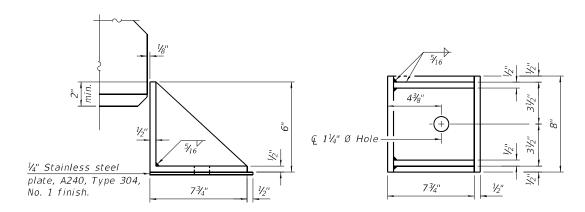
SECTION DRAINAGE SCUPPER ADJUSTMENT DETAILS 007 CWH 0007 22 BJ WILL **STRUCTURE NO.099-4609** CONTRACT NO. 62R87 SHEET S-7 OF S-10 SHEETS



9/21/2023 2:46:33 PM



EXISTING BEARING DETAILS FOR INFORMATION ONLY



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Side retainers and stainless steel plates shall be included in the cost of Furnishing and Erecting Structural Steel. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used. All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111. See Special Provision for "Hot Dip Galvanizing for Structural Steel".

See Section A-A on Sheet S-8 of S-10 for Anchor Bolt Details.

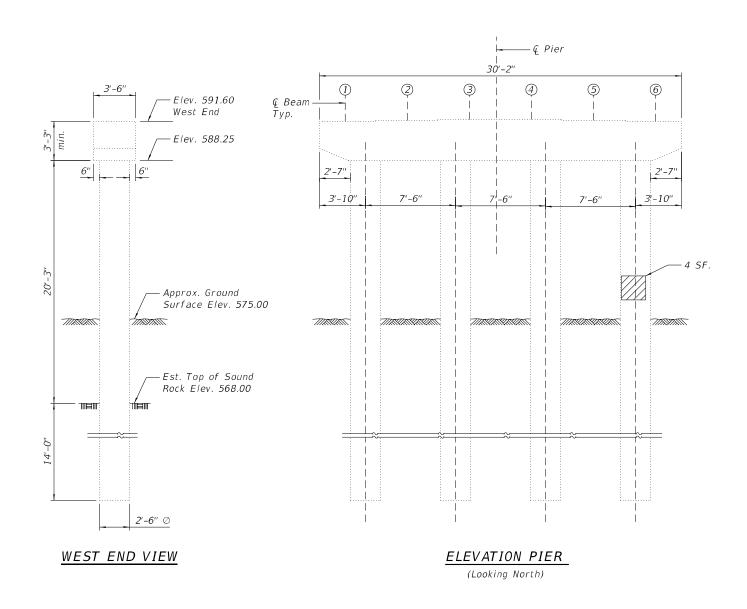
BILL OF MATERIAL

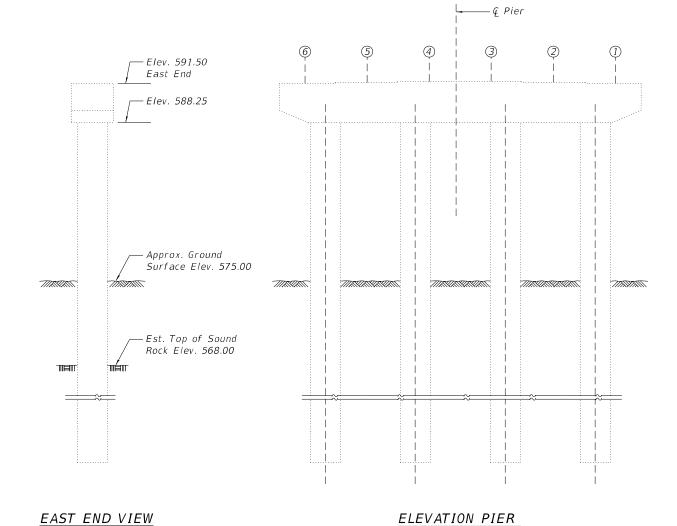
Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	210
Anchor Bolts, 1"	Each	8

A E G ATLAS ENGINEERING GROUP, LTD.

	USER NAME =	DESIGNED -	KB	REVISED -
;		CHECKED -	JKL	REVISED -
	PLOT SCALE = 1=1	DRAWN -	KB	REVISED -
	PLOT DATE =	CHECKED -	8/1/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





30'-2"

3'-10"

7'-6"

7'-6"

7'-6"

7'-6"

7'-6"

3'-10"

Q Old Chicago
Road

REFLECTED UNDERSIDE OF CAP PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	4

(Looking South)

NOTES:

Repair areas shown are intended as a guide for bidding purposes. Actual repair areas shall be determined in the field by the Engineer. A nominal amount of additional repair quantities have been provided to account for repairs not shown.

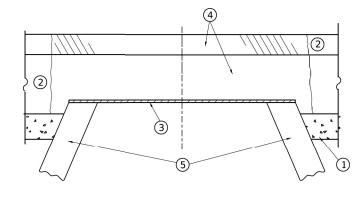
LEGEND

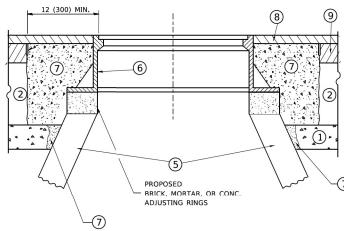
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

NAME:	AEG	ATLAS ENGINEERING GROUP, LTD.
4		

	USER NAME =	DESIGNED -	FM	REVISED -
G		CHECKED -	JKL	REVISED -
	PLOT SCALE =	DRAWN -	KB	REVISED -
	PLOT DATE =	CHECKED -	8/1/23	REVISED -

PIER REPAIR		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO.099-4609	007			WILL	25	17
				CONTRA	CT NO	2R87
SHEET S-10 OF S-10 SHEETS		TLITM	IS FED	AID PROJECT		





NOTES

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40)
 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1 *
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602. AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER "

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

5 EXISTING STRUCTURE

- (7) CLASS PP-1 *CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj DESIGNED - R. SHAH REVISED - R. WEDEMAN 05-14-04

DRAWN - REVISED - R. BORO 01-01-07

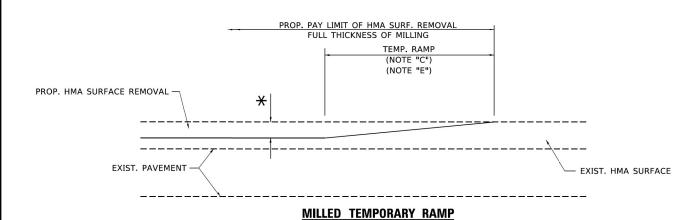
PLOT SCALE = 50,0000 ' / in. CHECKED - REVISED - R. BORO 03-09-11

PLOT DATE = 3/27/2019 DATE - 10-25-94 REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

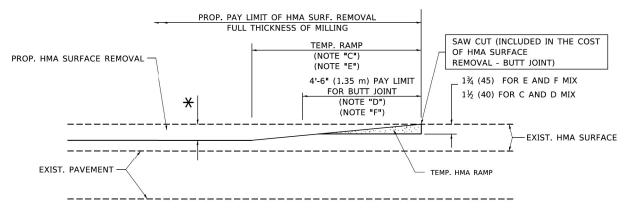
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

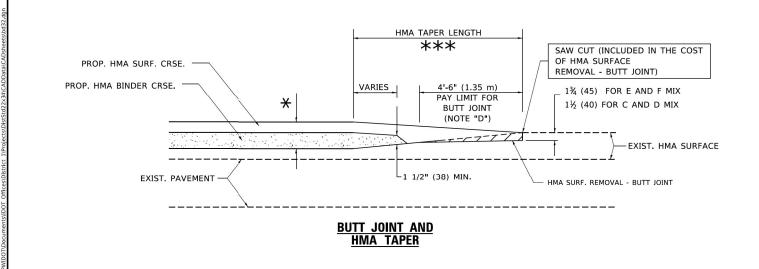


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



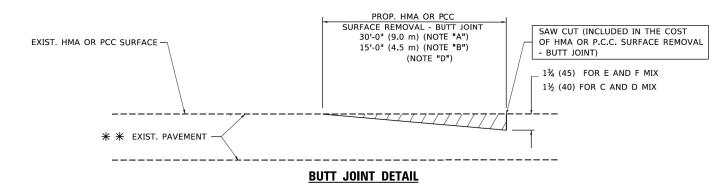
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

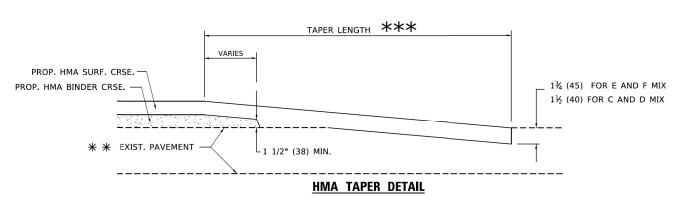
USER NAME = footemj DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94 DRAWN REVISED - A. ABBAS 03-21-97 PLOT SCALE = 50.0000 ' / in. CHECKED REVISED -M. GOMEZ 04-06-01 REVISED - R BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS SHEET 1 OF 1 SHEETS STA. TO STA

SECTION CWH 0007 22 BJ WILL 25 19 BD400-05 BD32 CONTRACT NO. 62R87





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT. * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

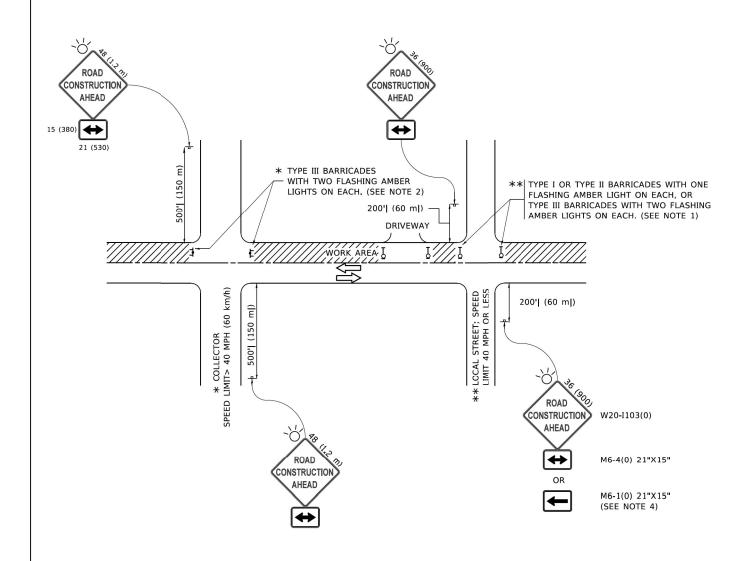
BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

PLOT DATE = 3/27/2019 DATE 06-13-90



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
 BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

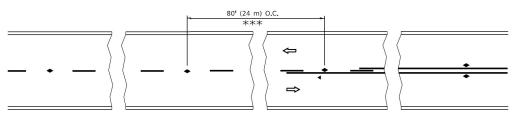
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

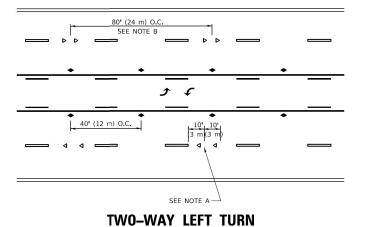
SHEET 1 OF 1 SHEETS STA. TO S



*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

LANE REDUCTION TRANSITION

SEE FIGURE 3B-14 MUTCD



SYMBOLS

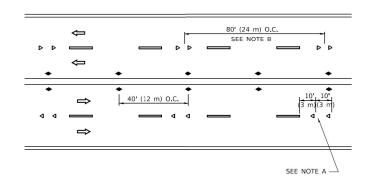
ONE-WAY AMBER MARKER

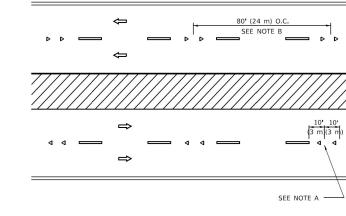
■ ONE-WAY CRYSTAL MARKER (W/O)■ TWO-WAY AMBER MARKER

YELLOW STRIPE

■ WHITE STRIPE

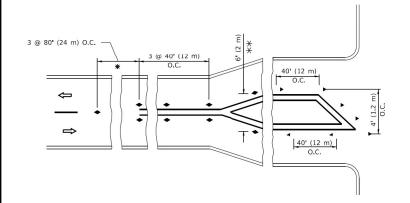
TWO-LANE/TWO-WAY

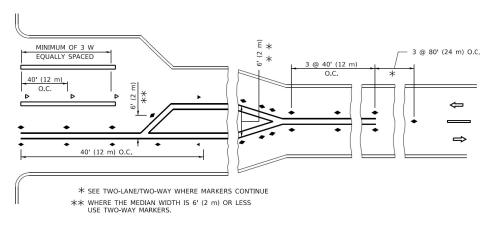




MULTI-LANE/UNDIVIDED







TURN LANES

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

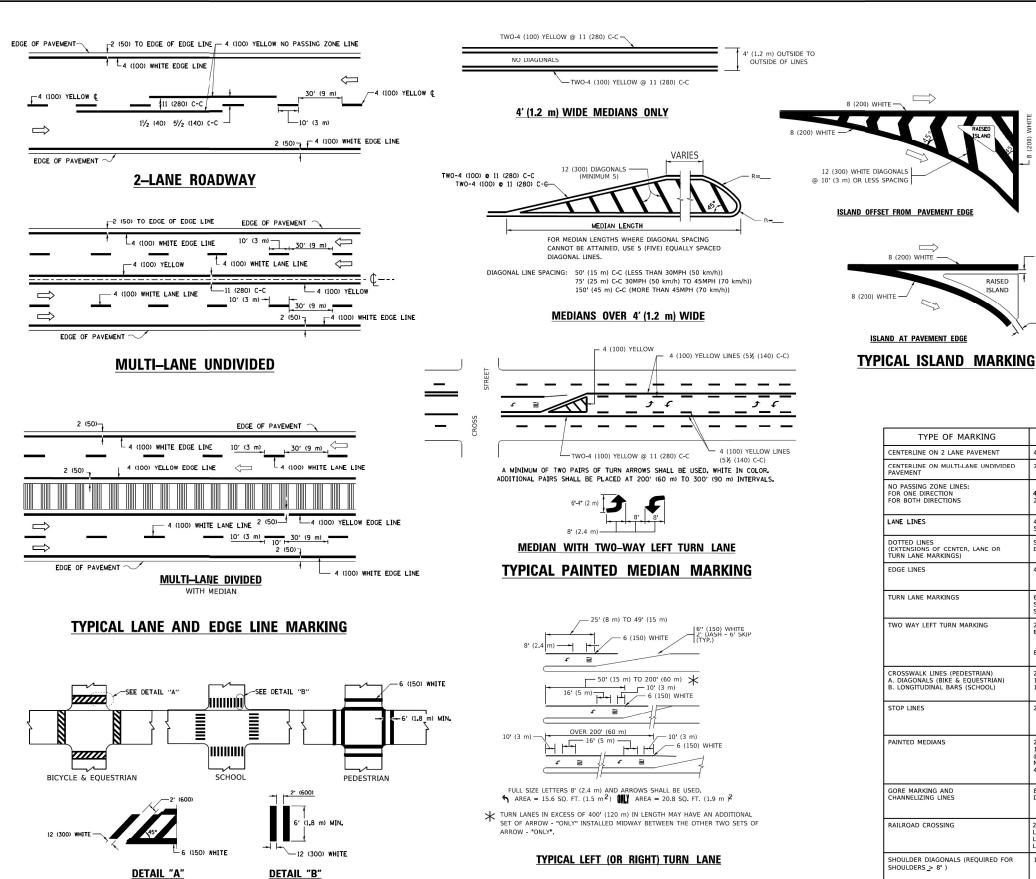
DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj DESIGNED -REVISED - T. RAMMACHER 03-12-99 SECTION TYPICAL APPLICATIONS STATE OF ILLINOIS DRAWN REVISED - T. RAMMACHER 01-06-00 CWH 0007 22 BJ WILL 25 21 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) PLOT SCALE = 50.0000 ' / in. CHECKED REVISED - C. JUCIUS 09-09-09 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62R87 SHEET 1 OF 1 SHEETS STA. C JUCIUS 07-01-13 PLOT DATE = 3/4/2019 DATE REVISED -

:L: Default VAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\\IDOT Offices\Dis



6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) TURN LANE MARKINGS SOLID SEE TYPICAL TURN LANE MARKING DETAIL TWO WAY LEFT TURN MARKING YELLOW 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL 8' (2.4m) LEFT ARROW CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE STOP LINES 24 (600) SOLID WHITE PAINTED MEDIANS SOLID 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. 2 @ 4 (100) WITH 12 (300) DIAGONALS YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS GORE MARKING AND CHANNELIZING LINES 8 (200) WITH 12 (300) DIAGONALS @ 45° SOLID DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" RAILROAD CROSSING SOLID WHITE SEE STATE STANDARD 780001 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) WHITE - RIGHT YELLOW - LEFT SHOULDER DIAGONALS (REQUIRED FOR 12 (300) @ 45° SOLID HOULDERS > 8') U TURN ARROW SEE DETAIL SOLID WHITE 2 ARROW COMBINATION LEFT AND U TURN SOLID 30.4 SF

COMBINATION

LEFT AND U-TURN

5'-4" (1620)

U-TURN

WHITE

YELLOW-LEFT WHITE-RIGHT

COLOR

SAME AS LINE BEING

PATTERN

SKIP-DASH SKIP-DASH

SKIP-DASH

SOLID

2 (50)

2 (50)

WIDTH OF LINE

(125) ON FREEWAYS

SAME AS LINE BEING EXTENDED

2 @ 4 (100)

4 (100)

RAISED

8 (200) WHITE -

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING

NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS

EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)

LANE LINES

EDGE LINES

DOTTED LINES

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

SCALE: NONE

unless otherwise shown.

D(FT)

425

580

665

750

LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

SPACING / REMARKS

10' (3 m) LINE WITH 30' (9 m) SPACE

5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C

OMIT SKIP-DASH CENTERLINE BETWEEN

10' (3 m) LINE WITH 30' (9 m) SPACE

2' (600) LINE WITH 6' (1.8 m) SPACE

OUTLINE MEDIANS IN YELLOW

SPEED LIMIT

35

45

55

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

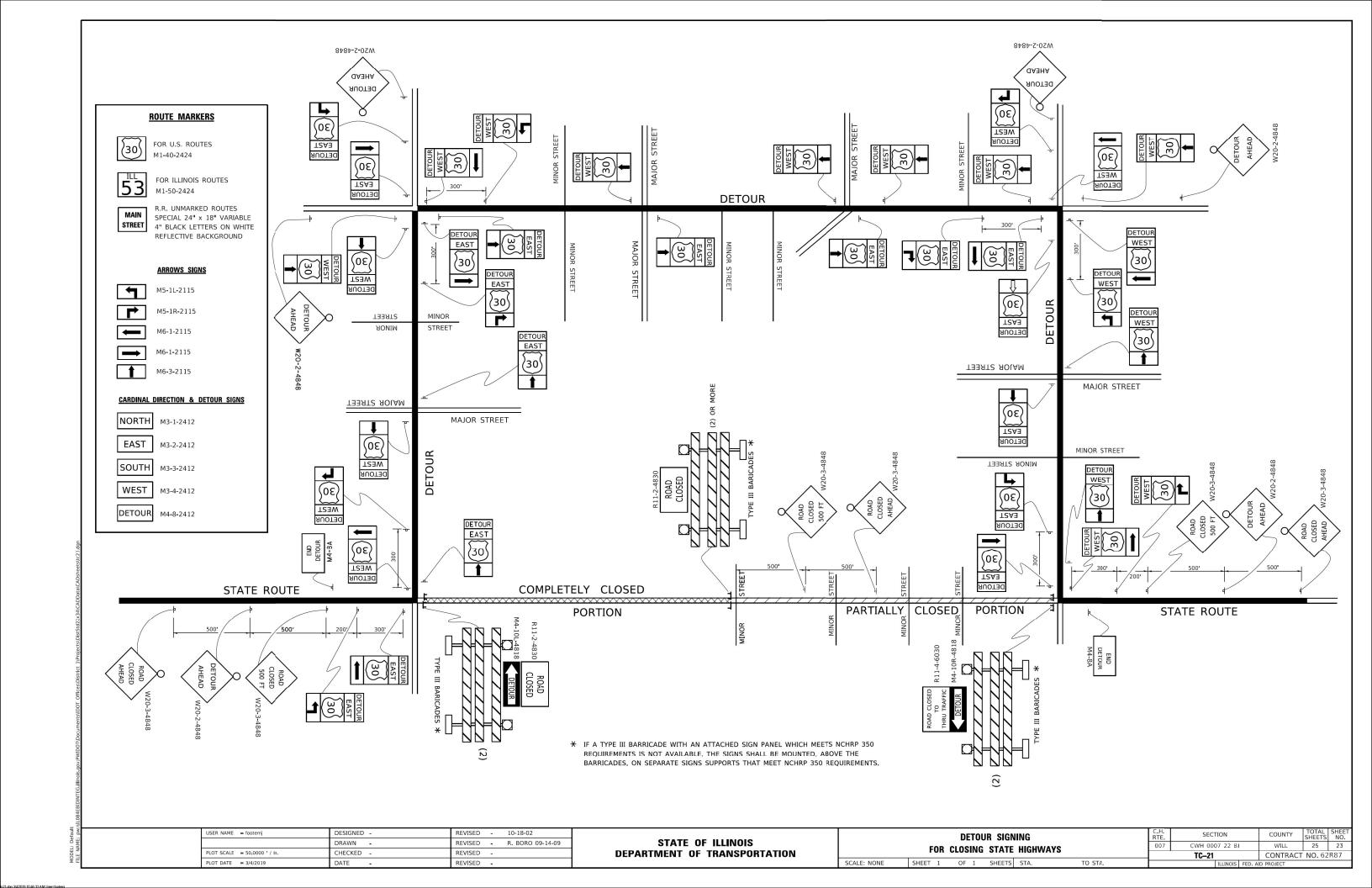
TYPICAL CROSSWALK MARKING

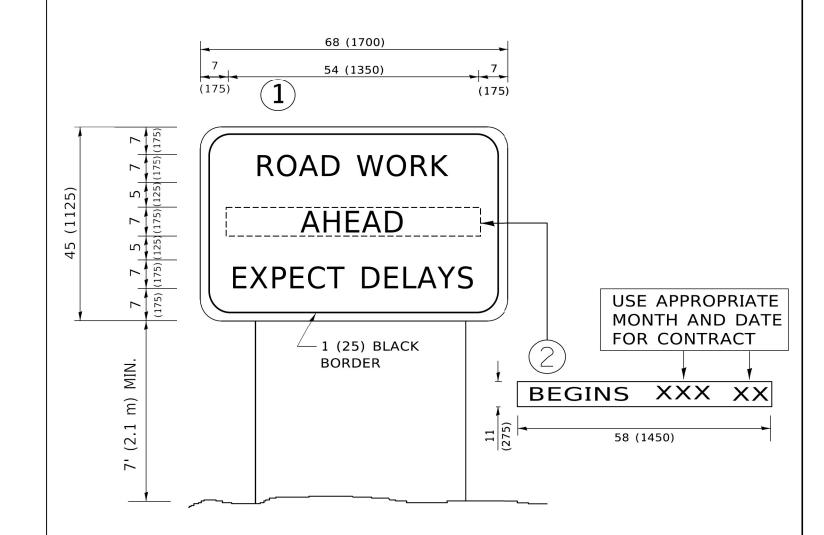
 $m{\star}$ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL TURN LANE MARKING

	DISTRICT ONE TYPICAL PAVEMENT MARKINGS				C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS		
					007	CWH 0007 22 BJ	WILL	25	22	
TITICAL PAVENENT MANNINGS					TC-13	CONTRACT	NO. 62	R87		
	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

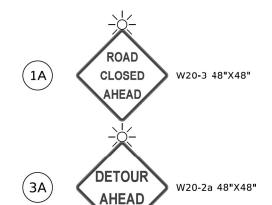
USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

ARTERIAL ROAD							
	INFORMATION SIGN						
SHEET	1	OF	1	SHEETS	STA	TO ST4	

RTE.	SECT	TION		COUNTY	SHEETS	
007	CWH 000	07 22 BJ	1	WILL	25	24
	TC-22			CONTRACT	NO. 62	R87
ILLINOIS FED. A				ID PROJECT		

RAILROAD CROSSING REPAIR DETOUR SIGNING



ROAD

CLOSED

**

DETOUR

**

5

(5A)

6

(6A)

7

W20-3 48"X48"

M1-I100 24"X24" (STATE ROUTE)

M1-I100 24"X24" (STATE ROUTE)

M1-I100 24"X24" (STATE ROUTE)

M1-4 24"X24" (US ROUTE)

FOR FREEWAY/EXPRESSWAY

M1-4 24"X24" (US ROUTE)

USE SEE NOTE 4.

M4-8 24"X12"

M6-1L 21"X15"

M6-2L 21"X15"

USE SEE NOTE 4.

M4-8 24"X12"

M6-3 21"x15"

FOR FREEWAY/EXPRESSWAY

M1-4 24"X24" (US ROUTE)

USE SEE NOTE 4.

M4-8 24"X12"

M5-1L 21"X15"

M5-2L 21"X15"

FOR FREEWAY/EXPRESSWAY



8A

9

9A

(10 `

11

12

14

15

M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4.

M1-I100 24"X24" (STATE ROUTE)

R11-3a

60"X30

R11-3a

60"X30"

R11-2

48"X30"

M1-4 24"X24" (US ROUTE)

FOR FREEWAY/EXPRESSWAY

M4-8 24"X12"

M5-1R 21"X15"

M5-2R 21"X15"

USE SEE NOTE 4.

M4-8 24"X12"

M6-1R 21"X15"

M6-2R 21"X15"



18

M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY





M1-I100 24"X24" USED FOR ILLINOIS ROUTES.



NOTES:

1. FOR DETOURS OF UNMARKED ROUTES, SIGNS

2. FOR DETOURS OF MARKED ROUTES, THE ORDER

ASSEMBLY SHOWN BELOW.

OF THE SIGNS SHOWN IN THE SIGN ASSEMBLIES

5 - 9A SHALL BE MODIFIED TO MATCH TYPICAL

DETOUR

3. ANY SIGNS THAT ARE TO BE IN PLACE FOR MORE

AND HIGHWAY STANDARD 701901.

SIGN LAYOUT AND SPACING

THAN 4 DAYS MUST HAVE A VERTICAL CLEARANCE

OF 7 FEET FROM TOP OF PAVEMENT TO THE BOTTOM

OF THE SIGN (5 FEET IN RURAL AREAS). THESE SIGNS

SHALL BE POST MOUNTED IN THE GROUND WHERE

POSSIBLE PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

FOR FREEWAY/EXPRESSWAY USE - M1-I100 36"X36" USED FOR ILLINOIS ROUTES, M1-4 36"X36" FOR U.S.

ROUTES, OR ROAD NAMES SIGN WITH 6" LETTER

REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL

MINIMUM BLACK LETTERS ON ORANGE BACKGROUND.

5 - 9A SHALL BE MODIFIED TO USE THE M4-9 SIGN

M1-4 24"X24" USED FOR U.S. ROUTES.



CUSTOM ROAD NAME SIGN WITH 5" MINIMUM UPPERCASE BLACK LETTERS ON ORANGE BACKGROUND.

OR



WHEN LOWER CASE LETTERS ARE USED, AS SHOWN, THEY SHALL BE 3/4 OF THE SIZE OF THE UPPER CASE LETTERS.

FOR FREEWAY/EXPRESSWAY USE - SEE NOTE 4.



M3-1 24"X12"



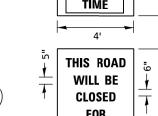
M3-2 24"X12"

M3-3 24"X12"

M3-4 24"X12"

CARDINAL DIRECTION SIGNS SHALL BE USED DIRECTLY ABOVE THE ROUTE MARKER.

|M1-I100 24"X24" (STATE ROUTE) USE SEE NOTE 4. 5" LETTER MIN. CLOSED BLACK LETTERS ΑT ON ORANGE BACKGROUND RAILROAD **CROSSING** RAILROAD 5" LETTER MIN. **REPAIRS BLACK LETTERS BEGIN** ON ORANGE DATE **BACKGROUND** TIME 4'



5" LETTER MIN. BLACK LETTERS ON ORANGE **BACKGROUND**



R3-2 24"X24"



R3-1 24"X24"



20







DETOUR

ROAD CLOSED

AT RR CROSSING

LOCAL TRAFFIC ONLY

ROAD CLOSED

XX MILES AHEAD

LOCAL TRAFFIC ONLY

ROAD

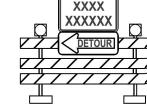
CLOSED

M4-10R 48"X18"



M4-10L 48"X18"

M4-8a 24"X18"



TYPE III BARRICADE W/ FLASHING LIGHTS (AS REQUIRED)

SEE R11-2, R-11-3a ABOVE

SEE M4-10L, M4-10R ABOVE

TYPE III BARRICADE W/FLASHING LIGHTS



TYPE A FLASHING LIGHT

REVISED - A. SCHUETZE 09-16 USER NAME = footemj DESIGNED -DRAWN REVISED -PLOT SCALE = 50.0000 ' / in. CHECKED -REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** RAILROAD CROSSING REPAIR **DETOUR SIGNING**

SECTION CWH 0007 22 BJ WILL TC-28

DATE REVISED -

SHEET 1 OF 1 SHEETS STA. SCALE: NONE

TO STA

25 25 CONTRACT NO. 62R87