

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAU ROUTE 2682: MCHENRY ROAD
AT WHEELING DRAINAGE DITCH
SECTION 2020-151-BR

FEDERAL PROJECT NUMBER STP-10IU(235)
BRIDGE DECK OVERLAY AND JOINT REPAIR
COOK COUNTY
C-91-360-20

FALL YEAR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2020	2020-151-BR	COOK	20	1
		BLDG NO.	CONTRACT NO. 62M26	

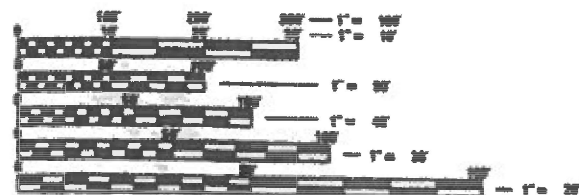
D-91-561-20

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:
MAJOR COLLECTOR
FAU ROUTE 2682: MCHENRY ROAD
2018 ADT = 13,400
SPEED LIMIT 35 MPH

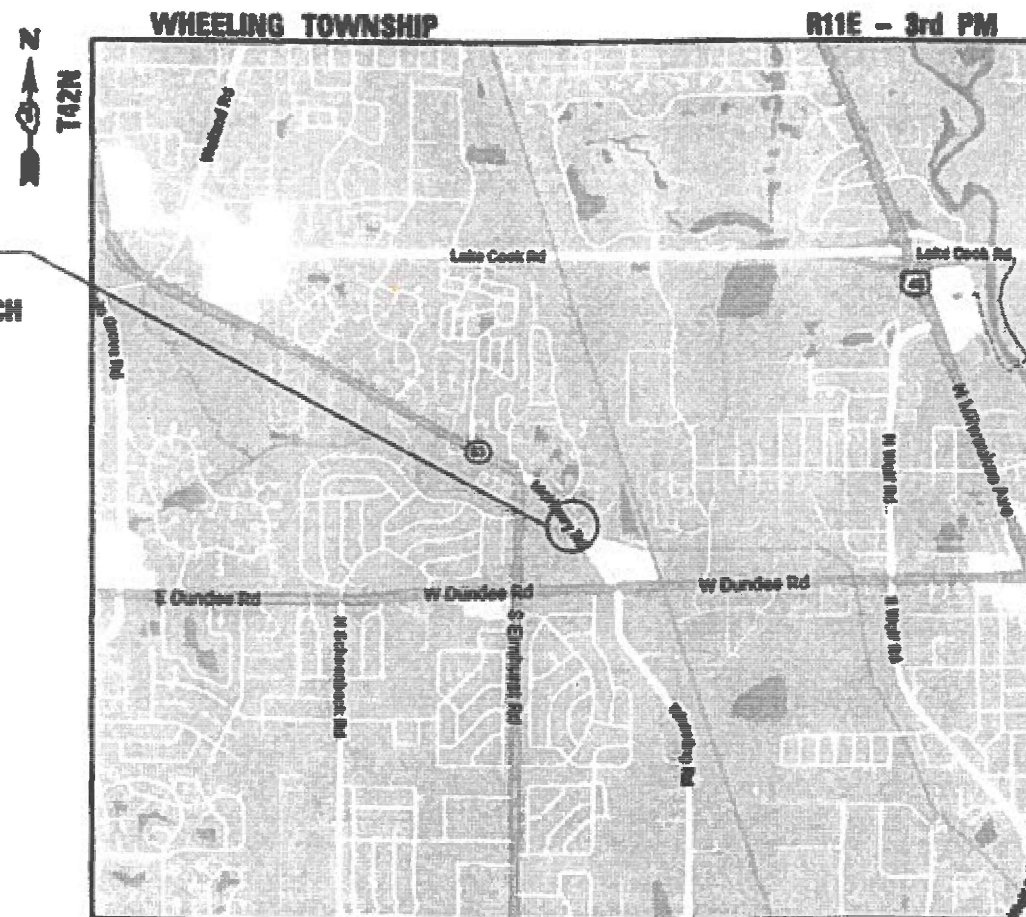
IMPROVEMENT LOCATED IN
THE VILLAGE OF WHEELING

IMPROVEMENT LOCATION
MCHENRY ROAD AT
WHEELING DRAINAGE DITCH
STRUCTURE NO. 016-0556



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.

NOTE
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-823-0123
OR 611



LOCATION MAP (NOT TO SCALE)

GROSS LENGTH = 199 FT = 0.003 MILE
NET LENGTH = 199 FT = 0.003 MILE

PROJECT ENGINEER: MR. PRAVEEN KAINI, PE (847) 705-4237
PROJECT MANAGER: MR. J. ALAIN MIDY, PE (847) 221-3056

CONTRACT NO. 62M26

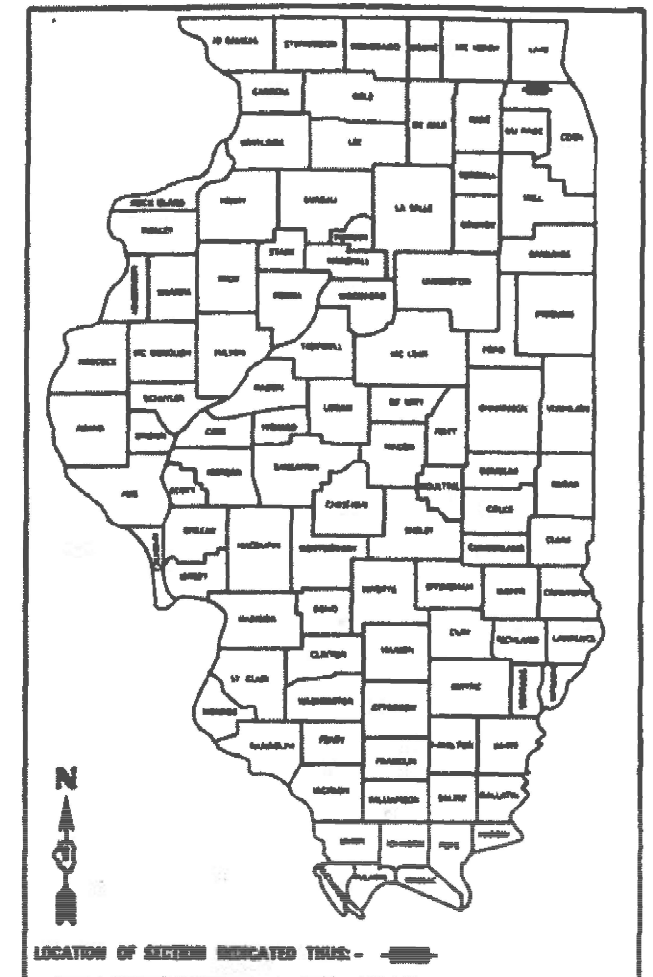
Accurate
GROUP, INC.
WWW.ACCGI.COM
101 SCHULTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60089
T (847) 613-1100 F (847) 613-1105
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 04100002



Mawra H. Issa
DATE SIGNED: 12-03-20
EXP. DATE: 11-30-22
SHEETS: 10-20



J. Alan Midy
DATE SIGNED: 12-03-20
EXP. DATE: 11-30-21
SHEETS: 1-9



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: March 4, 2021
Jose Luis LOB
REGIONAL ENGINEER

March 19, 2021
J. Alan Midy
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021
James J. Quinn
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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STATE OF ILLINOIS HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
483001-05	PCC SHOULDERS
604091-04	FRAME AND GRATE TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF WHEELING.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS. RAISED REFLECTIVE PAVEMENT MARKERS ARE NOT ALLOWED TO BE PLACED ON THE BRIDGE DECK.
- THE CONTRACTOR MUST CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT EMAD ALHUSSEINI, ARTERIAL TRAFFIC FIELD ENGINEER AT EMAD.ALHUSSEINI@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD 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 SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
- ANY SIGNAGE, PAVEMENT MARKINGS AND REFLECTORS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMIAN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES, LETTERS AND SYMBOLS AND RAISED REFLECTIVE MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE AS DIRECTED BY THE ENGINEER.
- SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS FOLLOW CURRENT OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND EXISTING OVERHEAS DISTRIBUTION ELECTRICAL FACILITIES.

COMMITMENTS

NONE.

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USER NAME = jdoavis	DESIGNED - JJD	REVISED -
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PLOT DATE = 12/4/2020	DATE - 12/4/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE HIGHWAY STANDARDS,
GENERAL NOTES, AND COMMITMENTS
MCHENRY RD OVER WHEELING DRAINAGE DITCH**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	2
CONTRACT NO.				62M26
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 016-0556
20101000	TEMPORARY FENCE	FOOT	12	12
20101100	TREE TRUNK PROTECTION	EACH	1	1
20200100	EARTH EXCAVATION	CU YD	167	167
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	59	59
25200110	SODDING, SALT TOLERANT	SQ YD	59	59
25200200	SUPPLEMENTAL WATERING	UNIT	1	1
28000400	PERIMETER EROSION BARRIER	FOOT	262	262
28000510	INLET FILTERS	EACH	4	4
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	19	19
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	82	82
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	61	61
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	270	270
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	24	24
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	167	167

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 016-0556
42001300	PROTECTIVE COAT	SQ YD	88	88
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	477	477
44000100	PAVEMENT REMOVAL	SQ YD	393	393
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	218	218
44000600	SIDEWALK REMOVAL	SQ FT	434	434
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	7	7
50102400	CONCRETE REMOVAL	CU YD	1.1	1.1
50200100	STRUCTURE EXCAVATION	CU YD	15	15
50300225	CONCRETE STRUCTURES	CU YD	28.7	28.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1.2	1.2
50300260	BRIDGE DECK GROOVING	SQ YD	343	343
50300300	PROTECTIVE COAT	SQ YD	393	393
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	119.5	119.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	49170	49170

* SPECIALTY ITEM

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PLOT DATE = 12/4/2020	DATE - 12/4/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
MCHENRY RD OVER WHEELING DRAINAGE DITCH**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	3
CONTRACT NO.			62M26	
ILLINOIS FED. AID PROJECT				

REV-SEP

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 016-0556
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	15	15
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,24	FOOT	68	68
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	182	182
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	240	240
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	477	477
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 016-0556
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	101	101
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	101	101
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	59	59
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	16	16
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	9	9
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1	1
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3
Ø Z0076600	TRAINEES	HOUR	500	500
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500

* SPECIALTY ITEM

Ø 0042

REV-SEP



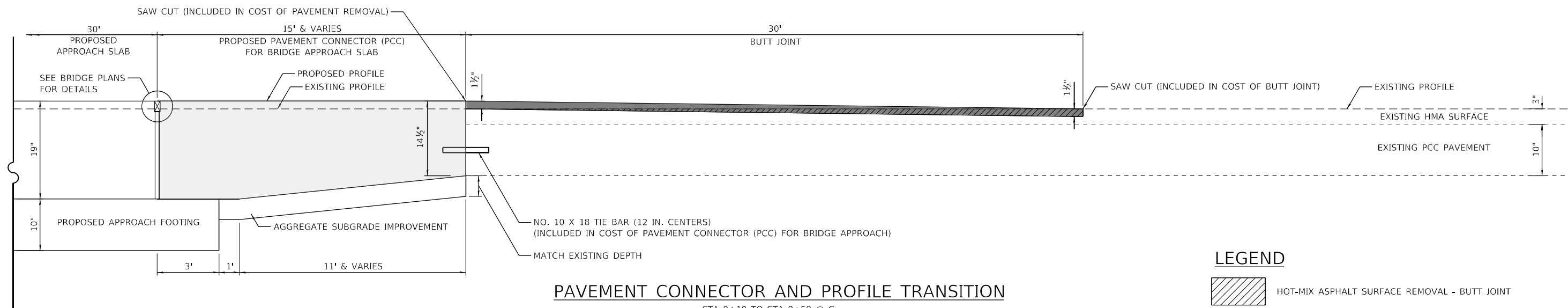
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
MCHENRY RD OVER WHEELING DRAINAGE DITCH**

SCALE: SHEET OF SHEETS STA. TO STA.



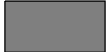
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CONTRACT NO.			62M26	
ILLINOIS FED. AID PROJECT				



PAVEMENT CONNECTOR AND PROFILE TRANSITION

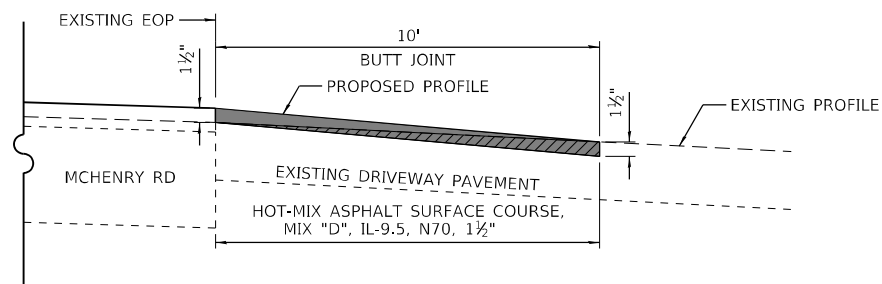
STA 9+10 TO STA 9+59 @ \mathcal{C}
 STA 10+41 TO STA 10+89 @ \mathcal{C}

LEGEND

-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
-  PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"

NOTES:

1. FOR ADDITIONAL DETAILS, SEE IDOT HIGHWAY STANDARD 420401 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB AND DISTRICT ONE DETAIL (BD-32) BUTT JOINT AND HMA TAPER DETAILS.
2. VERTICAL SCALE IS EXAGGERATED.



BUTT JOINT DETAIL AT DRIVEWAY

STA 9+24

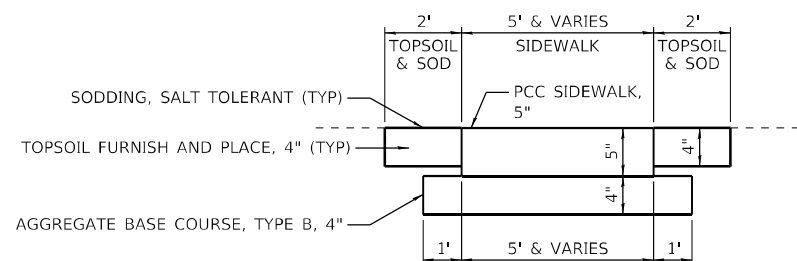
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"	4% @ 70 GYR.	QC/QA

QMP DESIGNATIONS:
 QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)
 QUALITY CONTROL FOR PERFORMANCE (QFP)
 PAY FOR PERFORMANCE (PFP)

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA MIXES THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



SIDEWALK TYPICAL SECTION

STA 9+47 TO STA 9+84
 STA 10+07 TO STA 10+57

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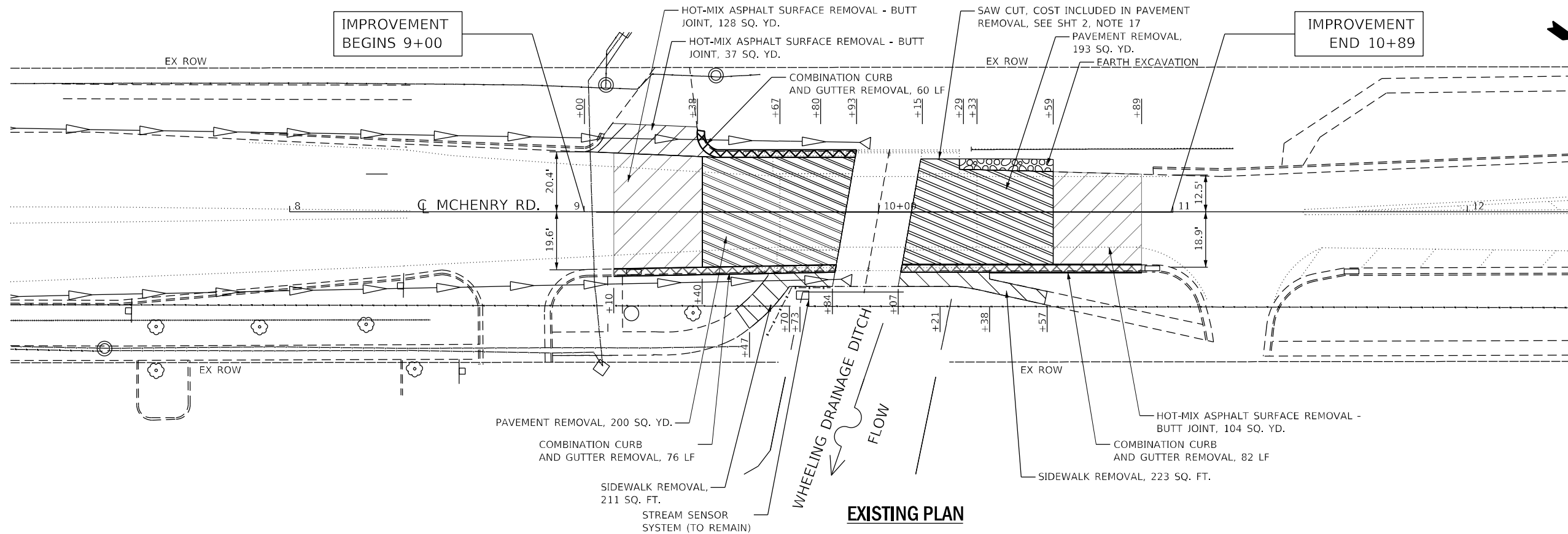


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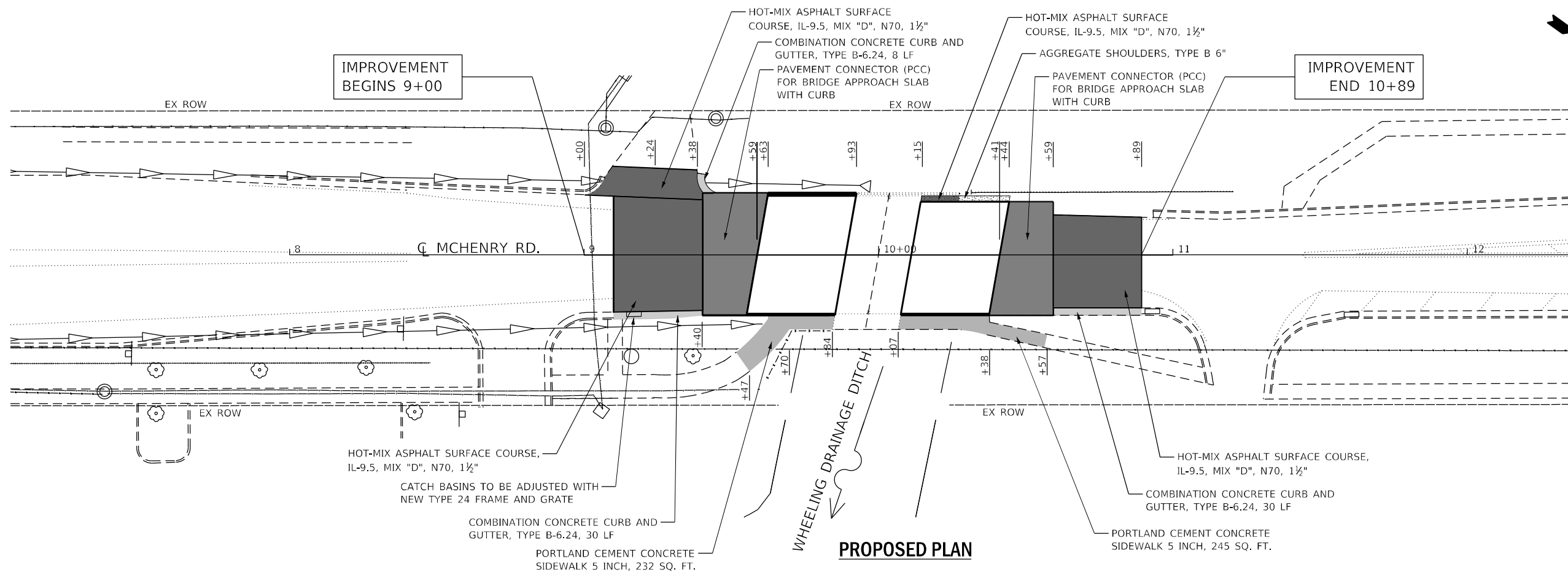
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS AND DETAILS			
MCHENRY RD OVER WHEELING DRAINAGE DITCH			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	5
CONTRACT NO. 62M26				ILLINOIS FED. AID PROJECT



EXISTING PLAN



PROPOSED PLAN

FILE NAME = Q:\Engineering\LiveProjects\20095.IDOT DUR.VO 4 - 62M26.CADD\CADD Sheets\Civil\62M26-shr-Exist and Prop Plan.dgn



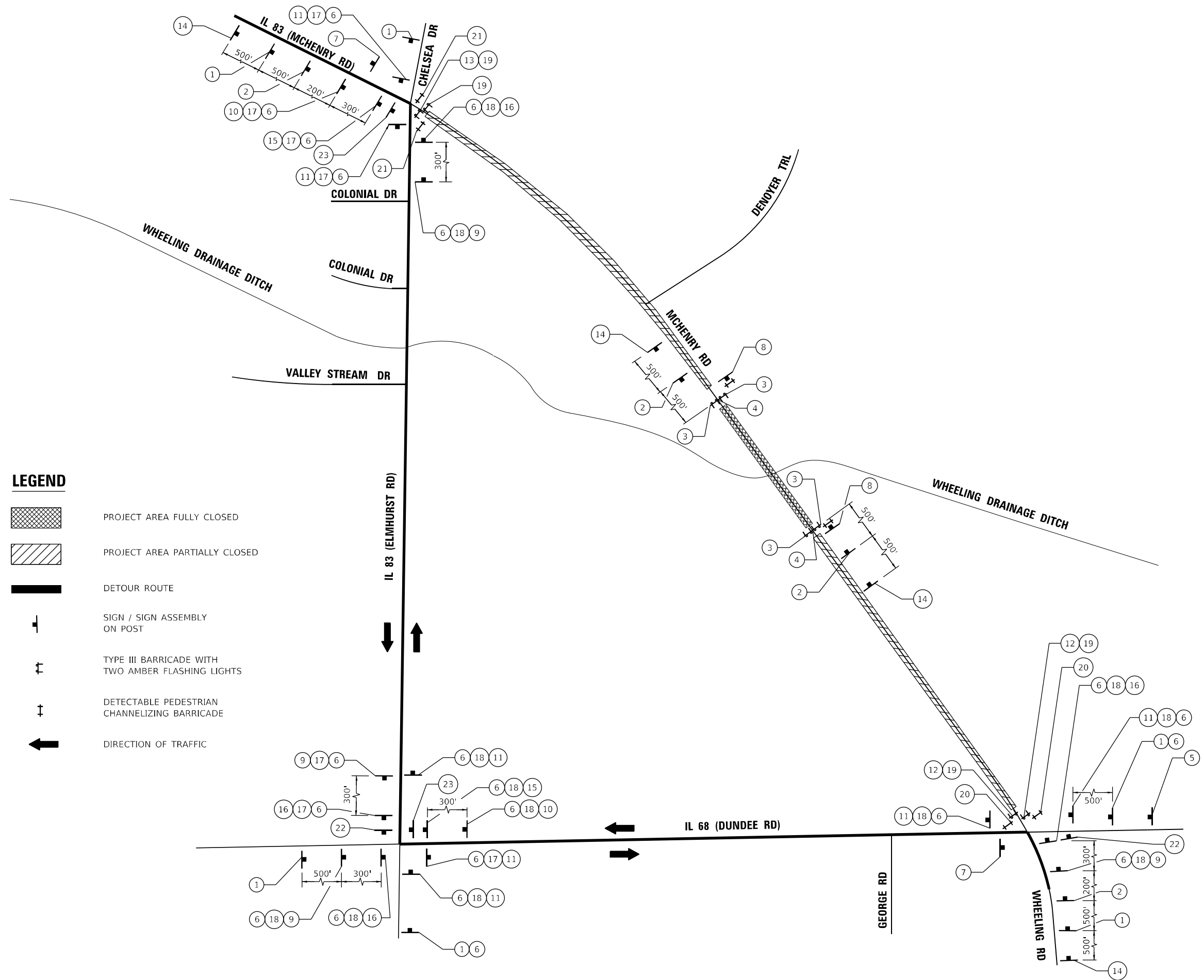
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED PLAN
MCHENRY RD OVER WHEELING DRAINAGE DITCH**

SCALE: 1"=40' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	6
CONTRACT NO.				62M26
ILLINOIS FED. AID PROJECT				



LEGEND

- PROJECT AREA FULLY CLOSED
- PROJECT AREA PARTIALLY CLOSED
- DETOUR ROUTE
- SIGN / SIGN ASSEMBLY ON POST
- TYPE III BARRICADE WITH TWO AMBER FLASHING LIGHTS
- DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE
- DIRECTION OF TRAFFIC

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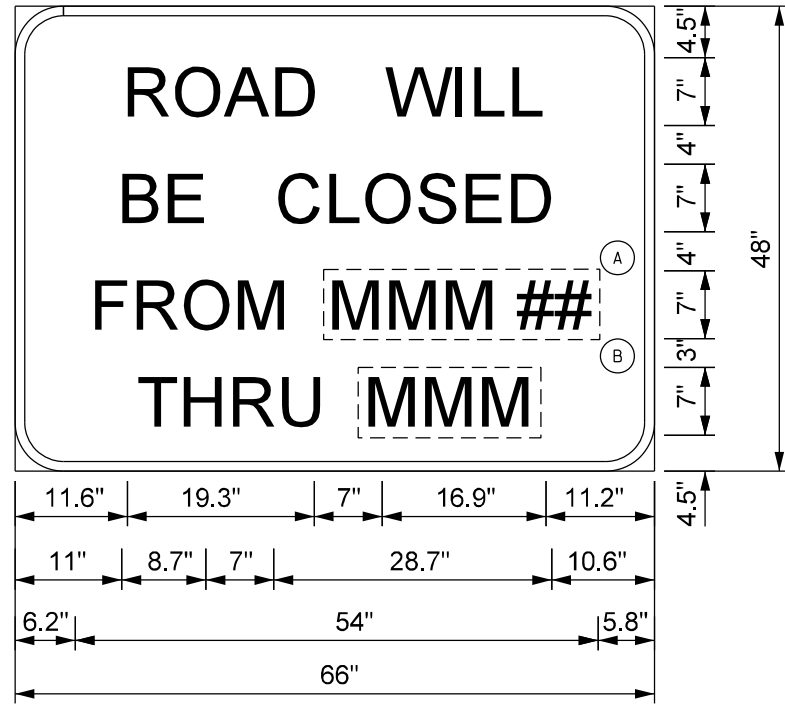
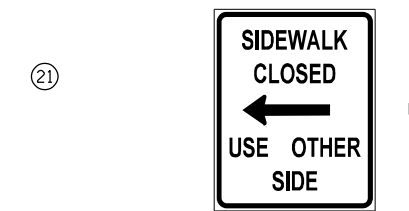
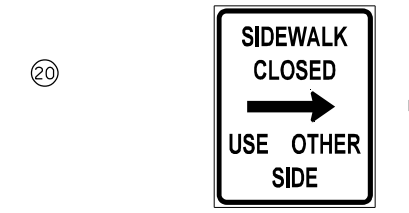
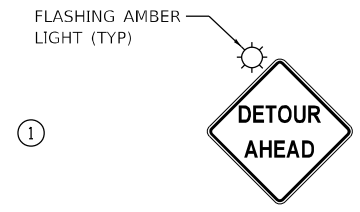
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DRAWN - IH	REVISED -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - JMT	REVISED -
PLOT DATE = 12/4/2020	DATE - 12/4/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR ROUTE MCHENRY RD OVER WHEELING DRAINAGE DITCH			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

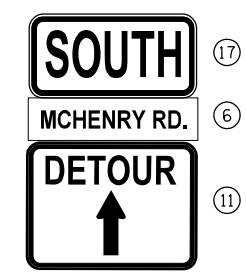
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	7
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

SIGN LEGEND



1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS (A) AND (B) IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.
3. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
4. ONE SIGN ASSEMBLY EQUALS 27.3 SQ. FT.
5. EACH SIGN ASSEMBLY SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING".

TYPICAL DETOUR SIGN ASSEMBLY



NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF WHEELING ONE MONTH PRIOR TO THE ROAD CLOSURE. "ROAD WILL BE CLOSED FROM MMM ## THRU MMM" SIGNAGE NEEDS TO BE IN PLACE TWO WEEKS PRIOR TO THE CLOSURE.
2. PARKWAY SPACE IS LIMITED. THE CONTRACTOR WILL ENSURE THESE SIGNS DO NOT BLOCK THE SIDEWALK OR EXTEND ONTO THE STREET.
3. SIGNS FOR THE DETOUR ARE INCLUDED IN THE CONTRACT LUMP SUM COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. SIGN PLACEMENT SHALL BE DONE ACCORDING TO DISTRICT DETAIL TC-21. (SEE SHEET 26 FOR DETAILS)
5. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
6. FOR TYPICAL SIGN INSTALLATION - SEE HIGHWAY STANDARD 701801 AND 701901.
7. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.

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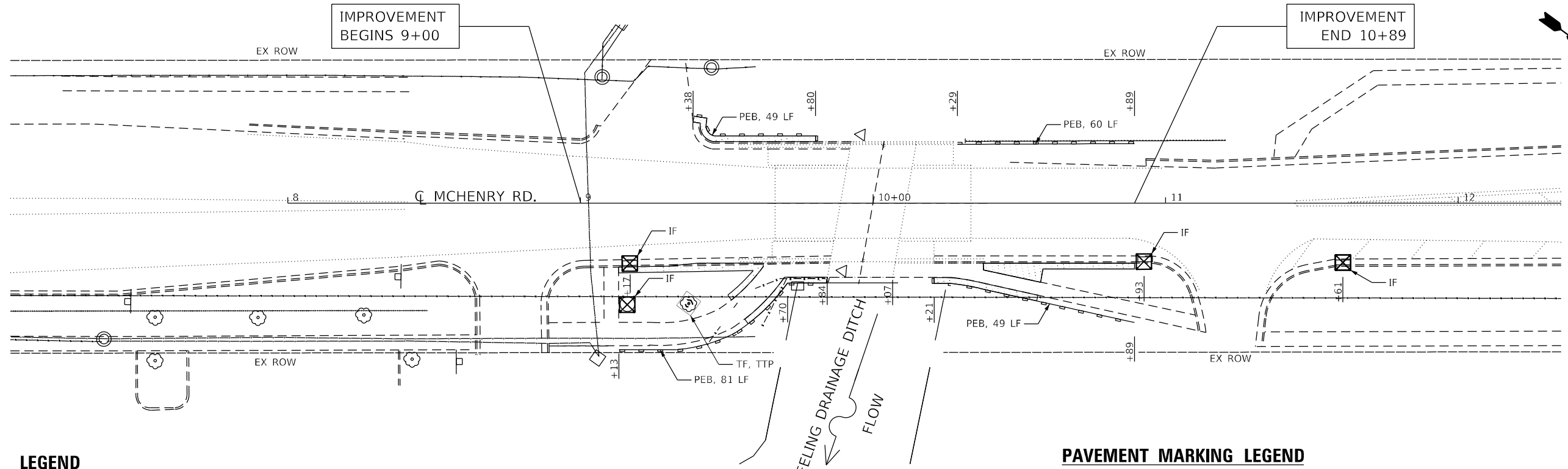
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNAGE
MCHENRY RD OVER WHEELING DRAINAGE DITCH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	8
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



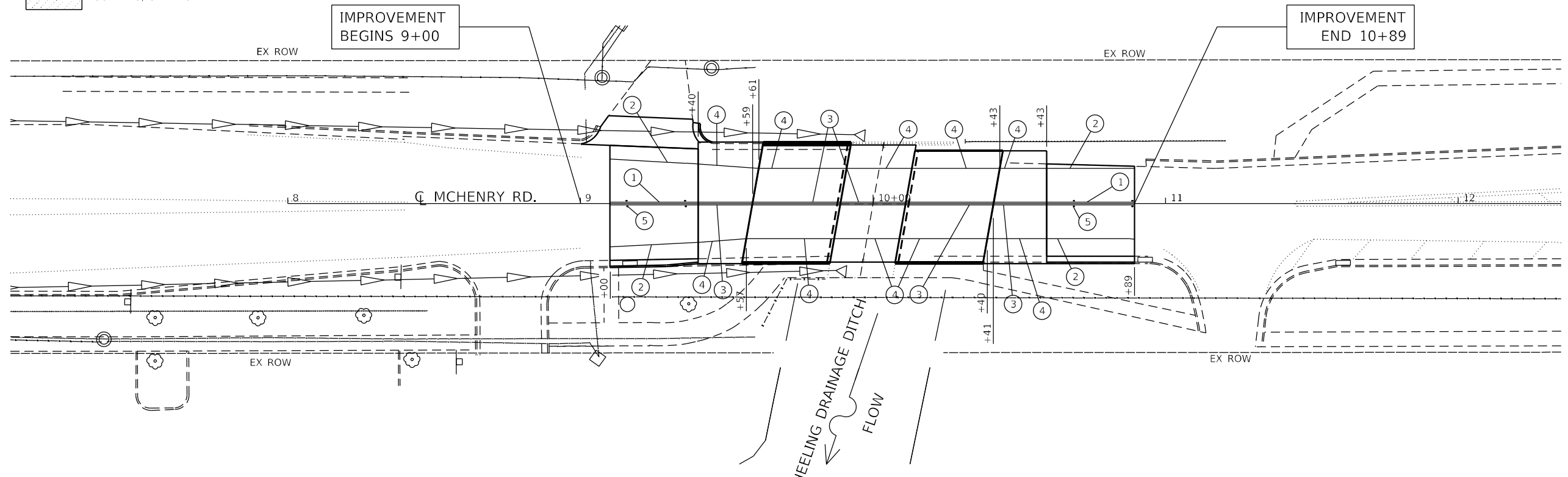
LEGEND

- TEMPORARY FENCE (TF)
- TREE TRUNK PROTECTION (TTP)
- PERIMETER EROSION BARRIER (PEB)
- INLET FILTER (IF)
- SODDING, SALT TOLERANT

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID, 11" CTC)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID, 11" CTC)
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ⑤ RAISED REFLECTIVE PAVEMENT MARKERS (OMIT ON APPROACH SLAB AND BRIDGE)

EROSION CONTROL



PAVEMENT MARKING

FILE NAME = Q:\Engineering\LiveProjects\200905.IDOT DUR.VO 4 - 62M26.CADD\CADD_Sheets\Civil\62M26-eh-Erosion_Ctrl and PMK.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

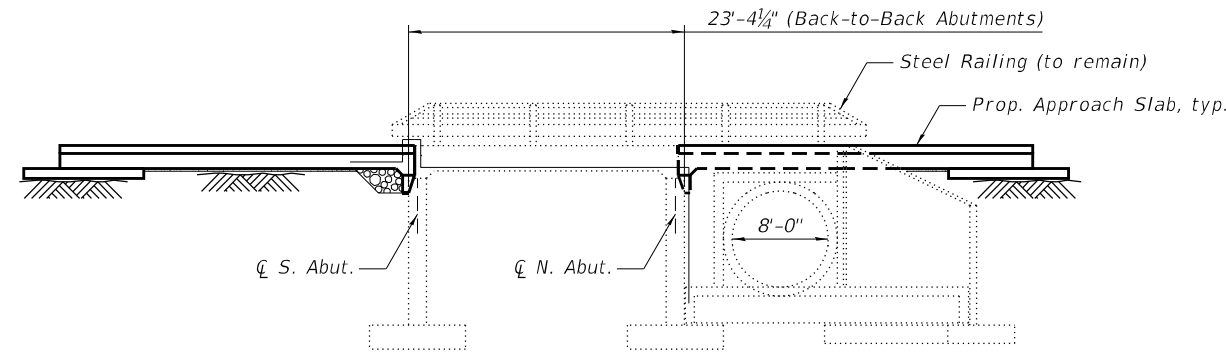
**EROSION CONTROL AND PAVEMENT MARKING PLAN
MCHENRY RD OVER WHEELING DRAINAGE DITCH**

SCALE: 1"=40' SHEET OF SHEETS STA. TO STA.

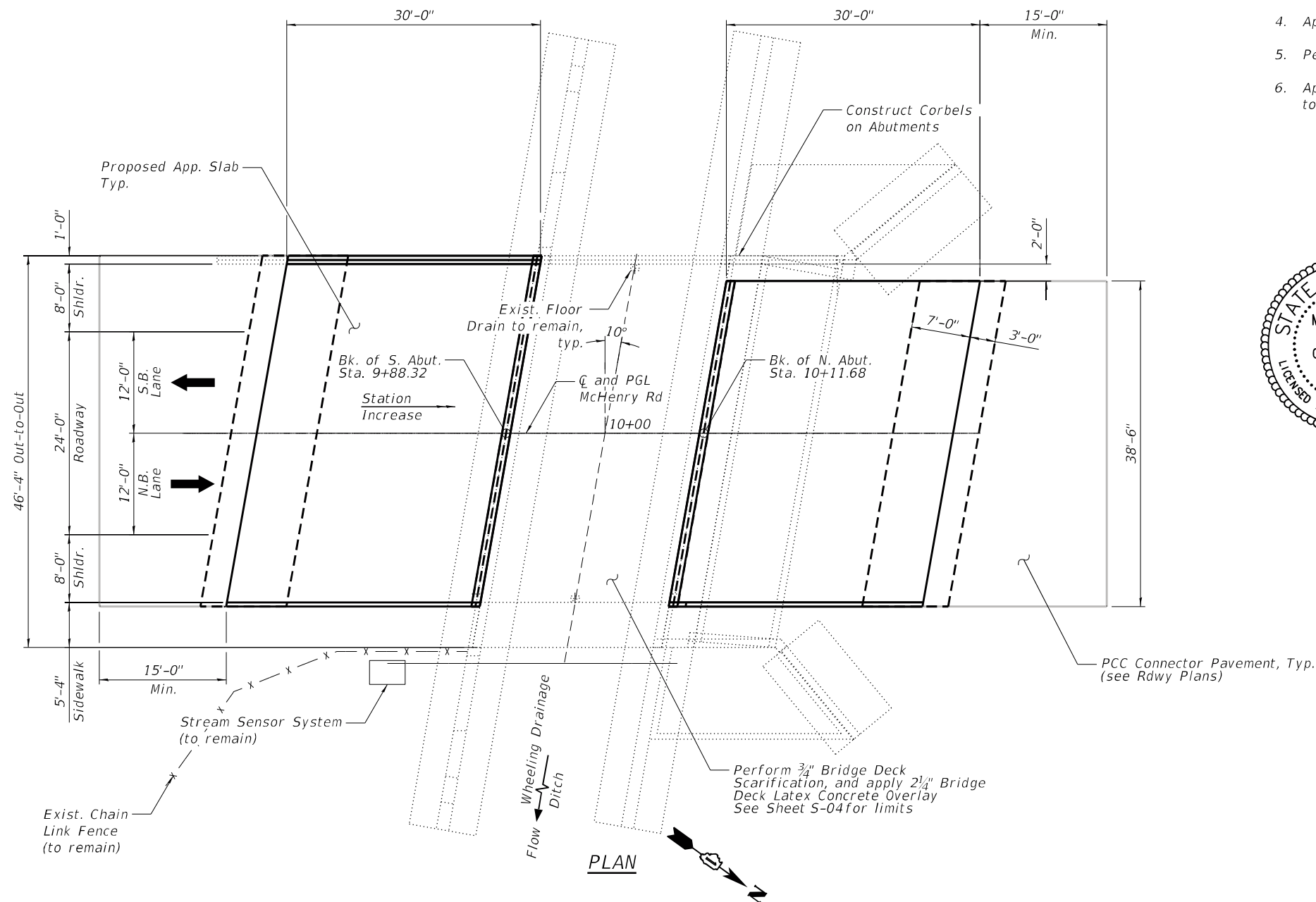
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	9
CONTRACT NO.			62M26	
ILLINOIS FED. AID PROJECT				

Existing Structure: Structure No. 0160556 was originally constructed in 1931. In 1984, 2010 and 2016 rehabilitation was performed and consisted in partial reconstruction of the abutments, restoration by degrading to the original counters and overlay on the South Approach. The current bridge is a one-span structure (21'-5⁷/₈"") with a total length of 23'-4¹/₄" (back-to-back abutments) and an overall width of 46'-4" (out-to-out deck). The superstructure consists of a 14"-thick reinforced concrete slab. The substructure consists of reinforced concrete abutments on spread footing, reinforced concrete wingwalls on spread footing and pipe culvert of 8'-0" diameter.

Traffic will be detoured.
No salvage.



ELEVATION
(Looking West)



PLAN

LOADING
HS 20

DESIGN SPECIFICATION

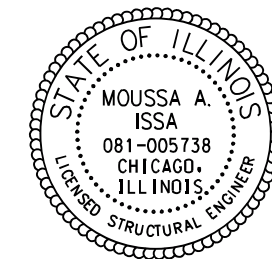
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

RECONSTRUCTION

1977 AASHTO Standard Specifications with 1978, 1979, 1980, 1981 and 1982 Interims.

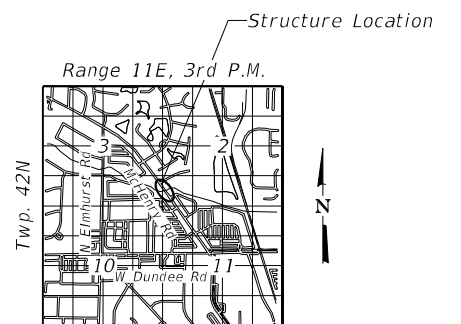
SCOPE OF WORK

1. Perform 3/4" Bridge Deck Scarification.
2. Remove and Replace North and South Approaches Slabs.
3. Perform Deck Slab Repairs, abutment repairs and culvert repairs as required.
4. Apply a 2 1/4" Bridge Deck Latex Concrete Overlay on Bridge Deck.
5. Perform Bridge Deck Grooving to Latex Overlay and Bridge Approach Slabs.
6. Apply Protective Coat to the top of sidewalk, to the surface of the new overlay and to the new slab approaches.



Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E. II. Lic. No. 081-005738
Expires 11-30-2022

Date March 02, 2021



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MCHENRY ROAD
OVER WHEELING DRAINAGE DITCH
SECTION 2020-151-BR
COOK COUNTY
STATION 10+00.00
S.N. 016-0556

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-0556

SHEET S-01 OF S-11 SHEETS

FA.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	10
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans 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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Bars noted thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bars per line.
4. For approach slab removal, see Civil Sheets.
5. Protective Coat shall be applied to the top of sidewalks, deck, and all existing and new concrete.

INDEX OF SHEETS

- S-01 General Plan and Elevation
- S-02 General Notes, Index of Sheets & Total Bill of Material
- S-03 Deck Cross Section
- S-04 Deck Repair Plan
- S-05 South Approach Slab, Sheet 1 of 2
- S-06 South Approach Slab, Sheet 2 of 2
- S-07 North Approach Slab, Sheet 1 of 2
- S-08 North Approach Slab, Sheet 2 of 2
- S-09 Substructure Repair Elevations and Details (Sheet 1 of 3)
- S-10 Substructure Repair Elevations and Details (Sheet 2 of 3)
- S-11 Substructure Repair Elevations and Details (Sheet 3 of 3)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	CU YD	0	1.1	1.1
Structure Excavation	CU YD	0	15	15
Concrete Structures	CU YD	0	28.7	28.7
Concrete Superstructure	CU YD	1.2	0	1.2
Bridge Deck Grooving	SQ YD	343	0	343
Protective Coat	SQ YD	393	0	393
Concrete Superstructure (Approach Slab)	CU YD	119.5	0	119.5
Reinforcement Bars, Epoxy Coated	POUND	43510	5660	49170
Granular Backfill For Structures	CU YD	0	15	15
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	101	0	101
Bridge Deck Scarification 3/4"	SQ YD	101	0	101
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	SQ FT	59	0	59
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	SQ FT	0	16	16
Deck Slab Repair (Full Depth, Type II)	SQ YD	9	0	9
Temporary Shoring And Cribbing	L SUM	1	0	1

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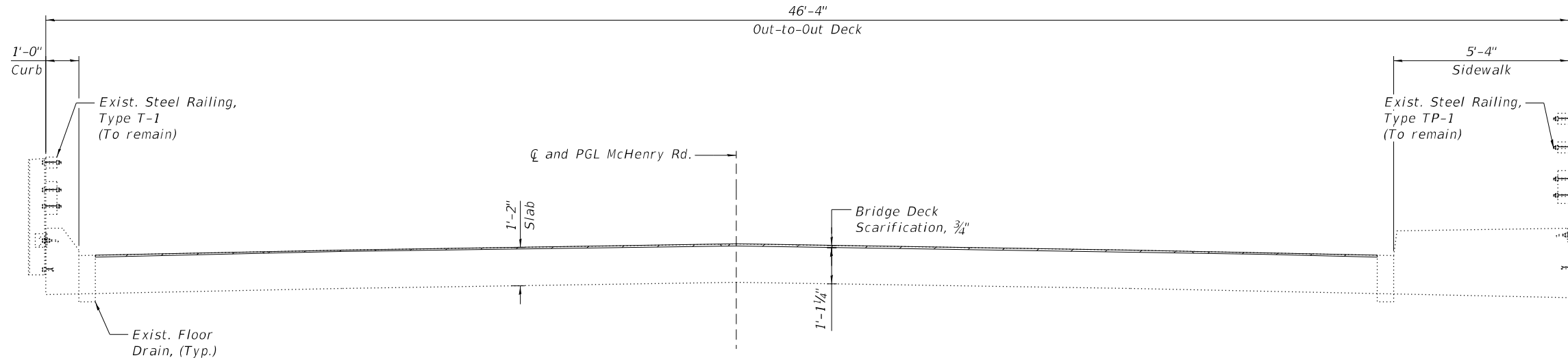
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-0556**

SHEET S-02 OF S-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62M26				
		ILLINOIS	FED. AID PROJECT	



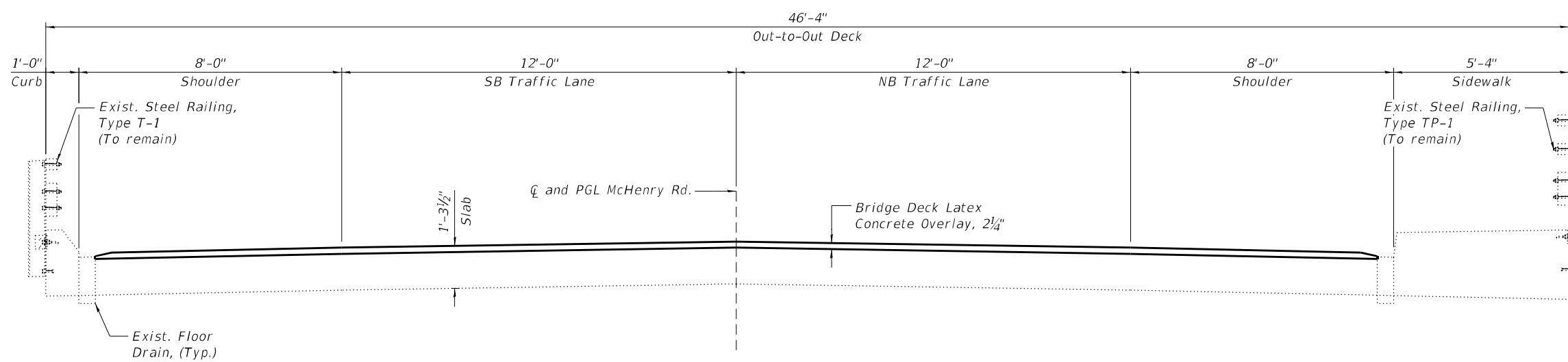
REMOVAL
(Looking North)

REMOVAL

1. Perform temporary shoring and cribbing.
2. Perform $\frac{3}{4}$ " bridge deck scarification.

CONSTRUCTION

1. Perform bridge deck slab repairs.
2. Perform structural repair of concrete for the substructure.
3. Construct corbels on abutments for new approach slabs.
4. Apply $2\frac{1}{4}$ " bridge deck latex concrete overlay.
5. Perform bridge deck grooving for the $2\frac{1}{4}$ " bridge deck latex concrete overlay and new bridge approach slabs.
6. Apply protective coat to surfaces of the new overlay, sidewalk and reconstructed approach slabs.



FINAL DECK CROSS-SECTION
(Looking North)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK CROSS SECTION
STRUCTURE NO. 016-0556

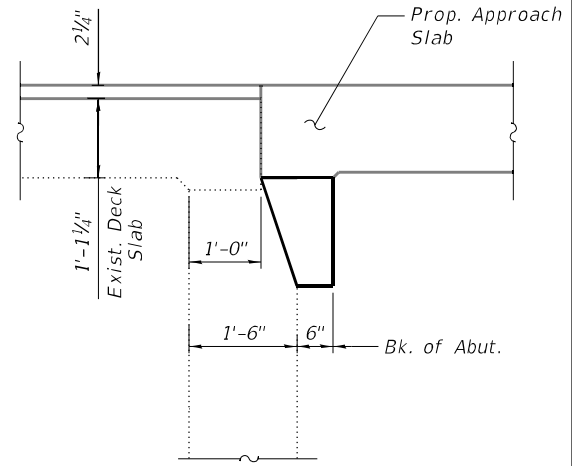
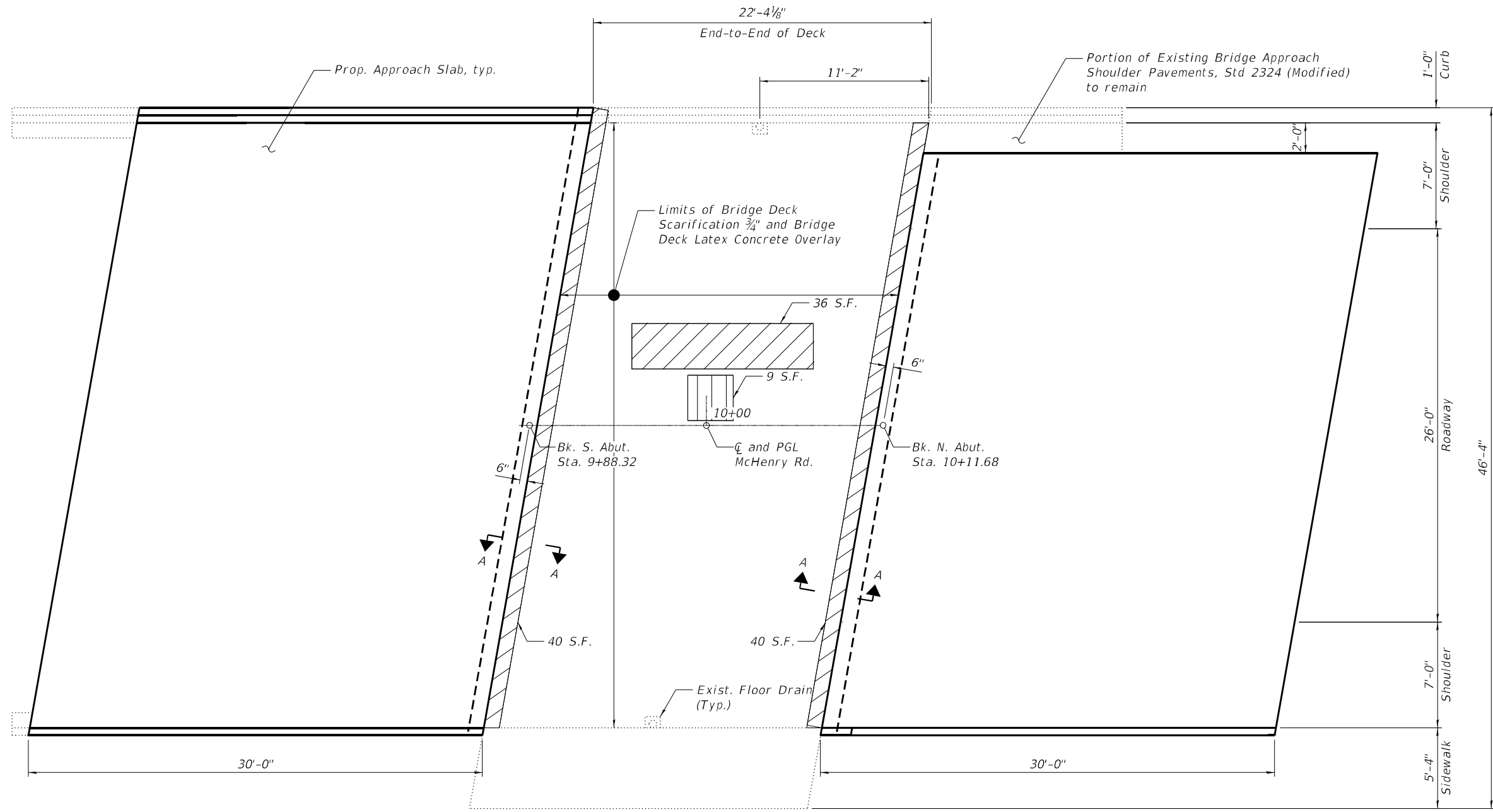
SHEET S-03 OF S-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	12
CONTRACT NO. 62M26				

ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Deck Grooving	SQ YD	96
Protective Coat	SQ YD	117
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	SQ YD	101
Bridge Deck Scarification 3/4"	SQ YD	101
Deck Slab Repair (Full Depth, Type II)	SQ YD	9
Temporary Shoring And Cribbing	L SUM	1

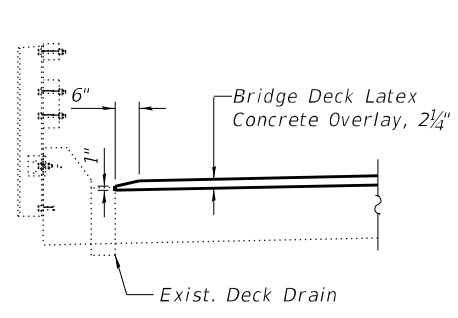


SECTION A-A

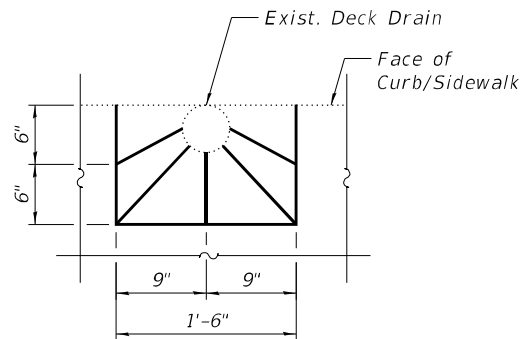
NOTES:

1. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built Plans.

DECK PLAN



FLOOR DRAIN DETAIL



TOP PLAN

LEGEND

- *Deck Slab Repair (Partial)
- Deck Slab Repair (Full)

*Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay

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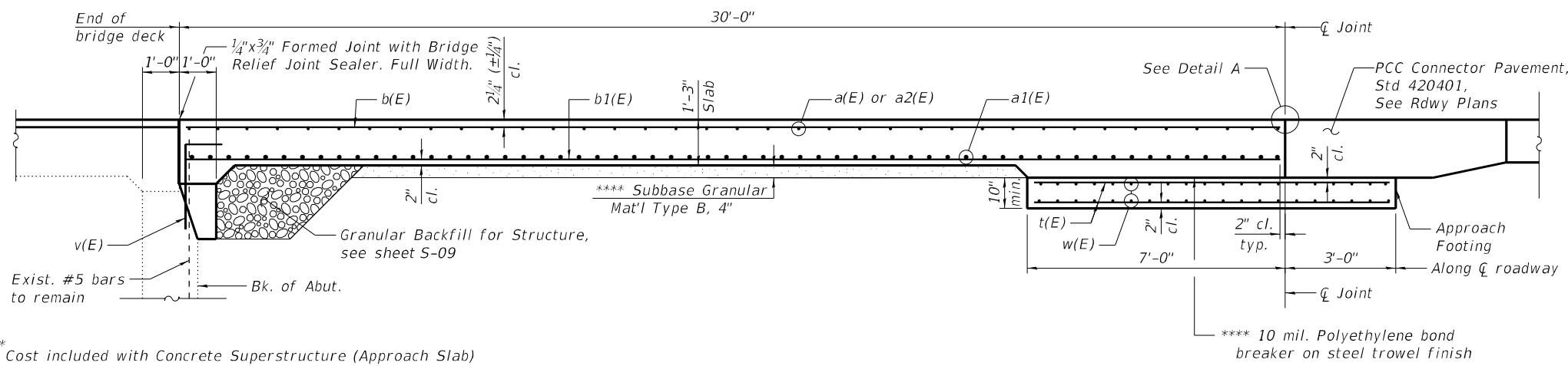
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN
STRUCTURE NO. 016-0556**

SHEET S-04 OF S-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	13
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				



NOTES:

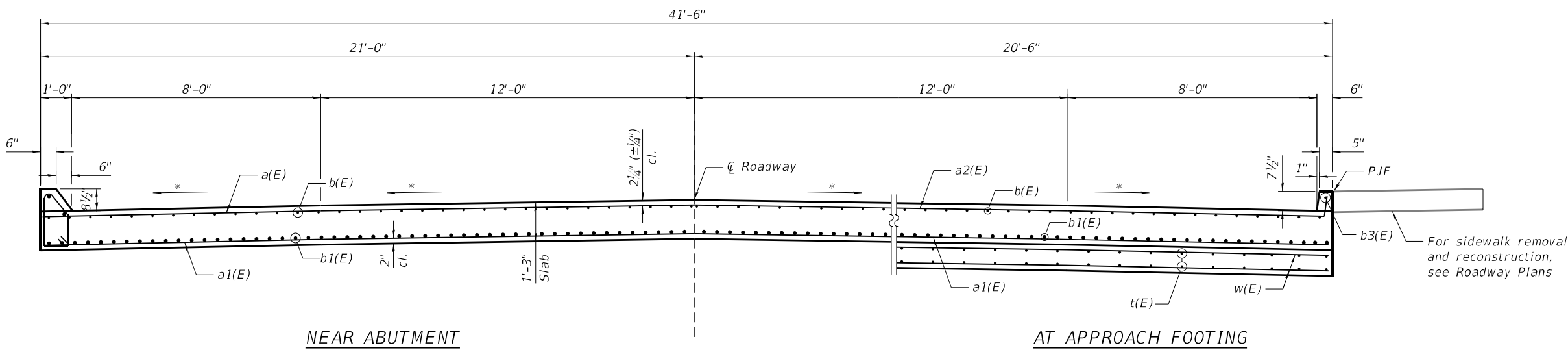
1. For Detail A, see Sheet S-05.
2. Curb Concrete shall be paid as Concrete Superstructure.
3. Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. For v(E) bar details, see Sheet S-09.
7. The approach footing maximum applied bearing pressure (Qmax) = 2.0 ksf.
8. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since the detail is for jointless structure, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
9. Cost of excavation for approach footing included with Concrete Structures.

**** Cost included with Concrete Superstructure (Approach Slab)

SECTION A-A

**SOUTH APPROACH
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	46	#5	22'-8"	—
a1(E)	122	#8	24'-4"	—
a2(E)	46	#5	23'-4"	—
b(E)	64	#5	29'-8"	—
b1(E)	101	#9	29'-8"	—
b2(E)	2	#8	29'-8"	—
b3(E)	1	#4	29'-8"	—
s(E)	31	#4	5'-0"	D
t(E)	86	#4	9'-8"	—
w(E)	80	#5	22'-8"	—
Concrete Structures			CU YD	13.1
Concrete Superstructure			CU YD	0.9
Bridge Deck Grooving			SQ YD	127
Protective Coat			SQ YD	146
Concrete Superstructure (Approach Slab)			CU YD	62
Reinforcement Bars, Epoxy Coated			POUND	22,590

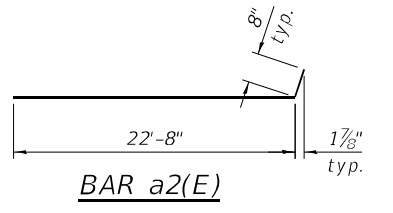
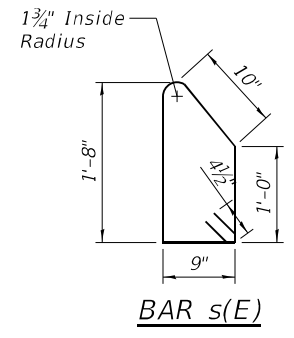


NEAR ABUTMENT

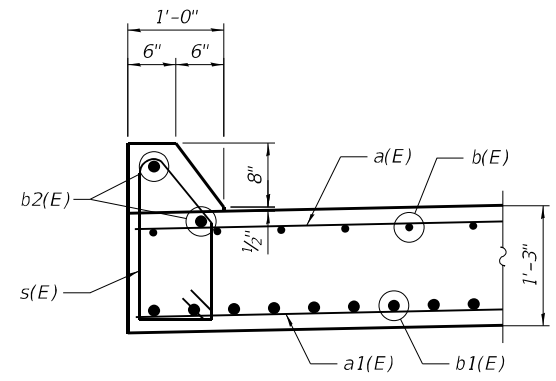
AT APPROACH FOOTING

* Match existing deck surface profile

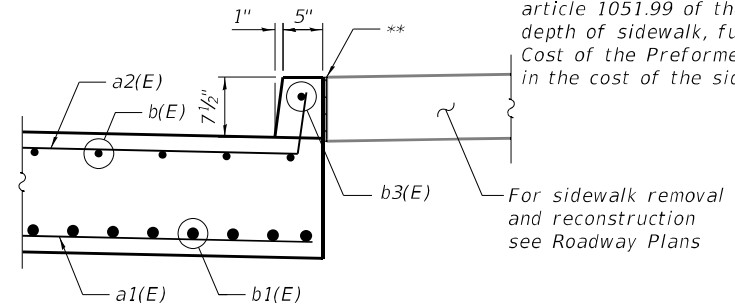
**SECTION B-B
(Looking North)**



** Preformed Expansion Joint Filler according to article 1051.99 of the Standard Specifications; full depth of sidewalk, full length of Approach Slab. Cost of the Preformed Expansion Jt Filler is included in the cost of the sidewalk (see Rdwy Plans).



SECTION C-C



SECTION D-D

Minimum Bar Laps	
Bar	Lap
#5	3'-0"
#5	3'-6"
#8	6'-9"

substructure
superstructure

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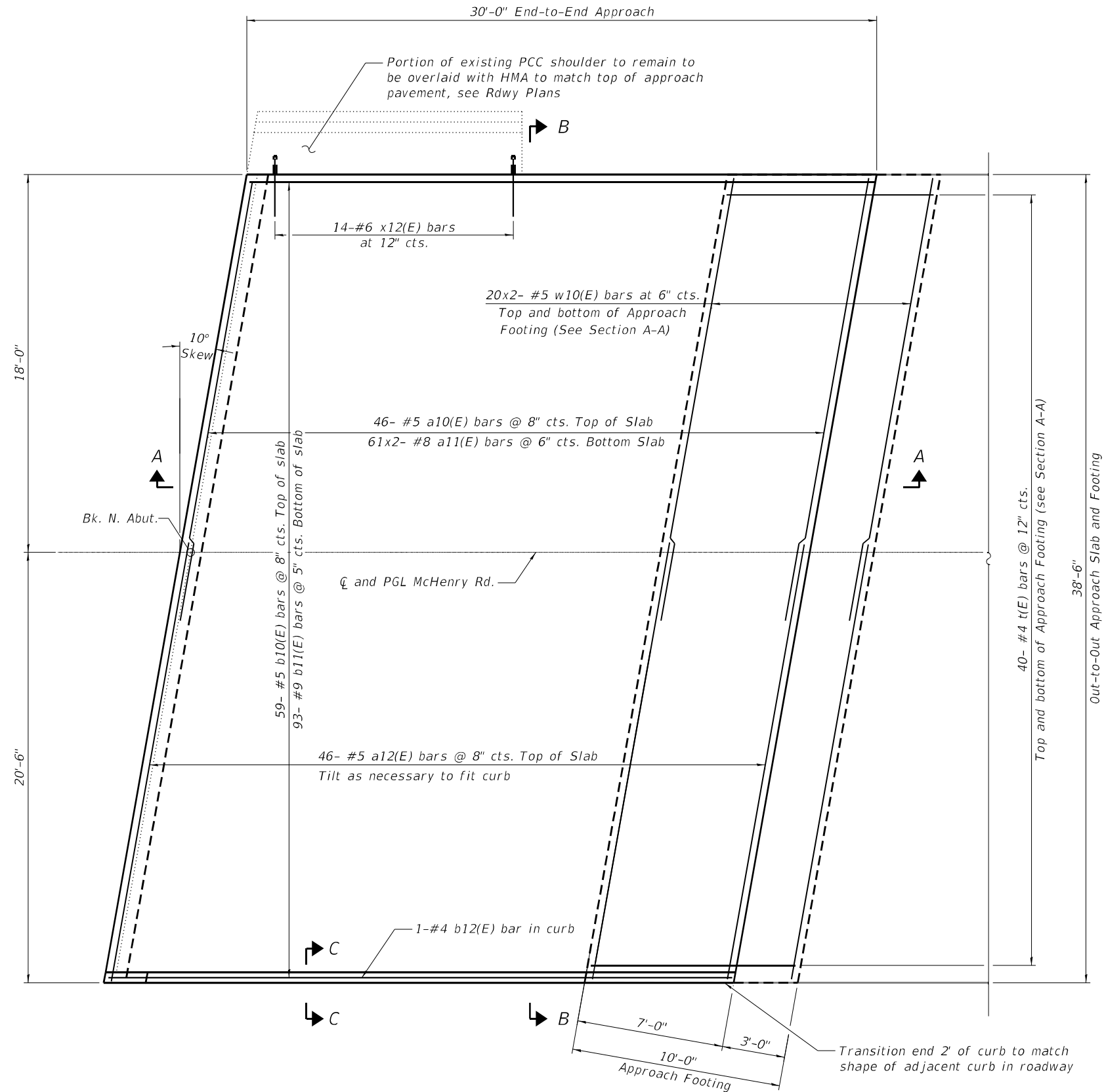
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB, SHEET 2 OF 2
STRUCTURE NO. 016-0556**

SHEET S-06 OF S-11 SHEETS

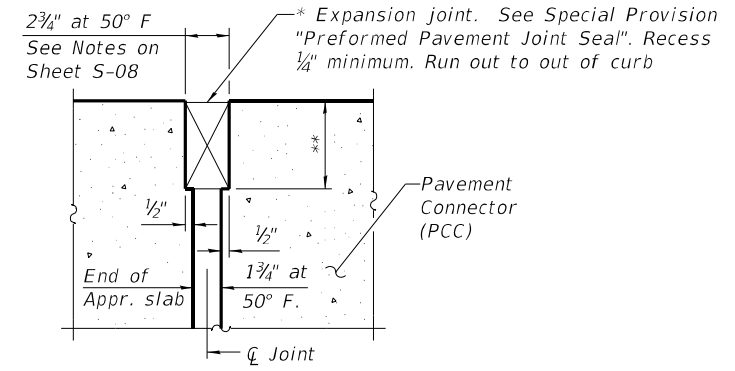
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CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

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NORTH APPROACH PLAN

NOTES:
 1. For Sections A-A, B-B and C-C, see Sheet S-08.
 2. a10(E) and a11(E) bar spacings measured along the ϕ Rdwy.



DETAIL A
 (@ Rt. L's)

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations



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STATE OF ILLINOIS
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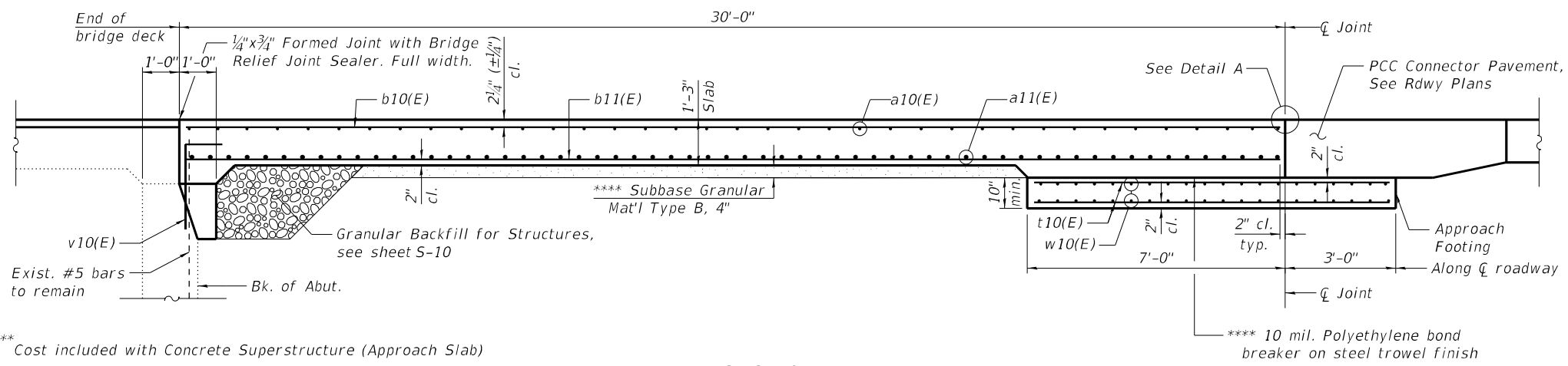
NORTH APPROACH SLAB, SHEET 1 OF 2
 STRUCTURE NO. 016-0556

SHEET S-07 OF S-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	16
CONTRACT NO. 62M26				
ILLINOIS		FED. AID PROJECT		

NOTES:

1. For Detail A, see Sheet S-07.
2. Curb Concrete shall be paid as Concrete Superstructure.
3. Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. For v10(E) bar details, see Sheet S-10.
7. The approach footing maximum applied bearing pressure (Qmax) = 2.0 ksf.
8. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
9. Cost of excavation for approach footing included with Concrete Structures.

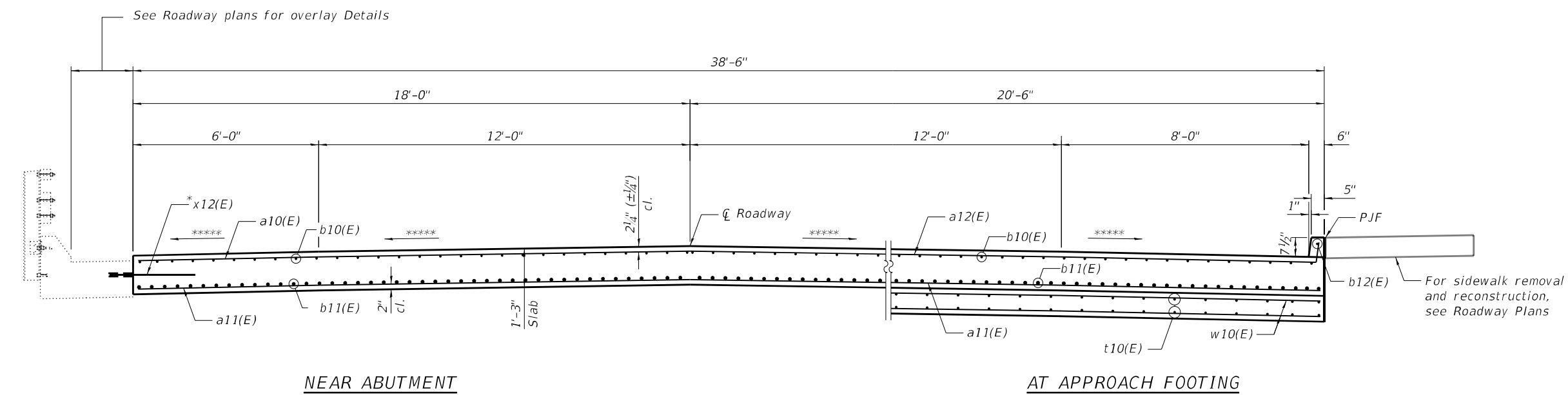


SECTION A-A

**NORTH APPROACH
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	46	#5	21'-2"	—
a11(E)	122	#8	22'-11"	—
a12(E)	46	#5	21'-10"	—
b10(E)	59	#5	29'-8"	—
b11(E)	94	#9	29'-8"	—
b12(E)	1	#4	29'-8"	—
t10(E)	80	#4	9'-8"	—
w10(E)	80	#5	20'-10"	—
x12(E)	14	#6	2'-9"	—
Concrete Structures		CU YD	12.1	
Concrete Superstructure		CU YD	0.3	
Bridge Deck Grooving		SQ YD	120	
Protective Coat		SQ YD	130	
Concrete Superstructure (Approach Slab)		CU YD	57.5	
Reinforcement Bars, Epoxy Coated		POUND	20,920	

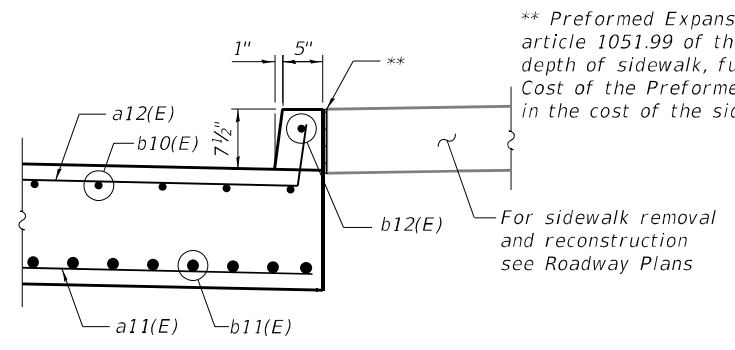
**** Cost included with Concrete Superstructure (Approach Slab)



**SECTION B-B
(Looking North)**

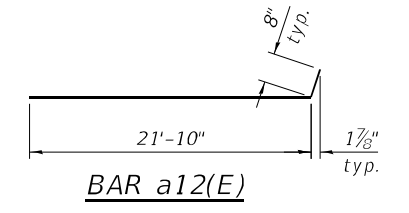
* Epoxy grout x12(E) bars in 9" min. holes according to Art. 584 of the Std. Specs.

**** Match existing deck surface profile



SECTION C-C

** Preformed Expansion Joint Filler according to article 1051.99 of the Standard Specifications; full depth of sidewalk, full length of Approach Slab. Cost of the Preformed Expansion Jt Filler is included in the cost of the sidewalk (see Rdwy Plans).



Minimum Bar Laps	
Bar	Lap
#5	3'-0"
#5	3'-6"
#8	6'-9"

substructure
superstructure

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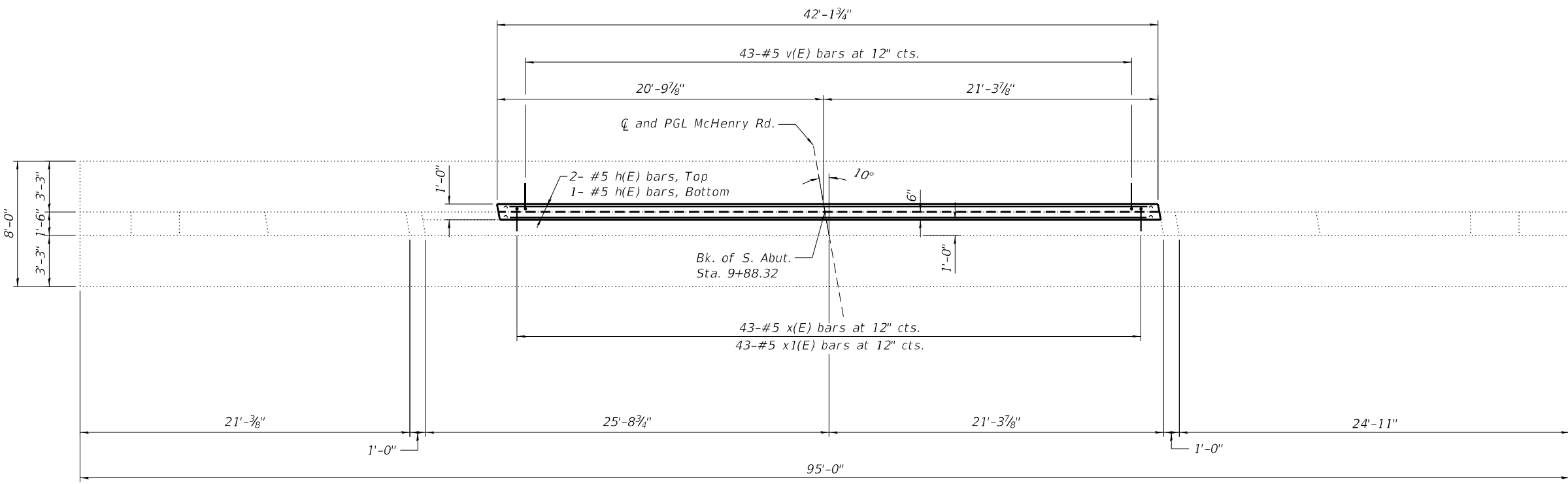
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH APPROACH SLAB, SHEET 2 OF 2
STRUCTURE NO. 016-0556**

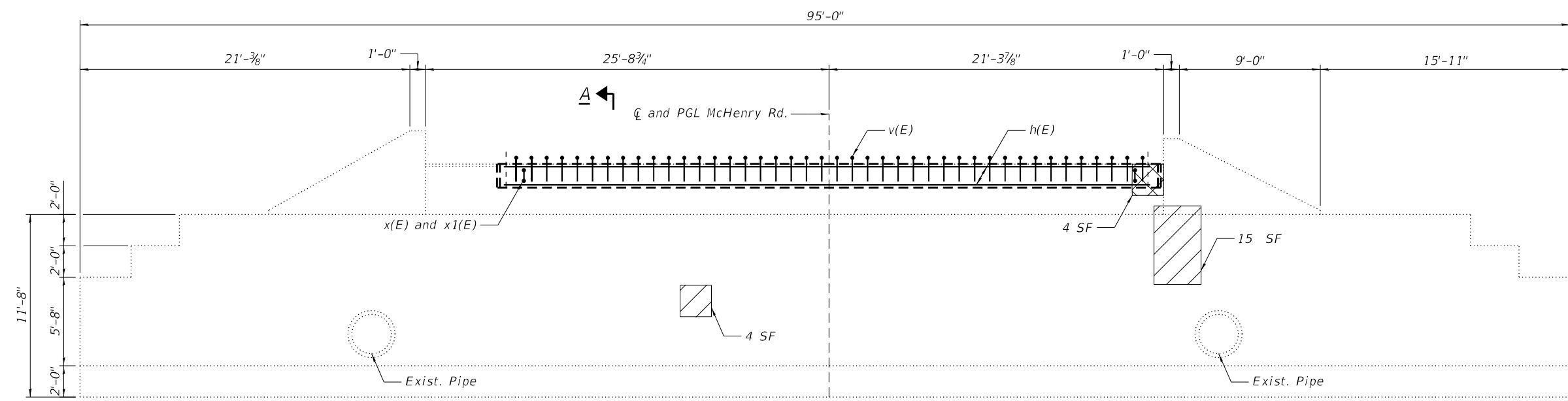
SHEET S-08 OF S-11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	17
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

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11/23/2020 9:58:22 AM



PLAN - SOUTH ABUTMENT



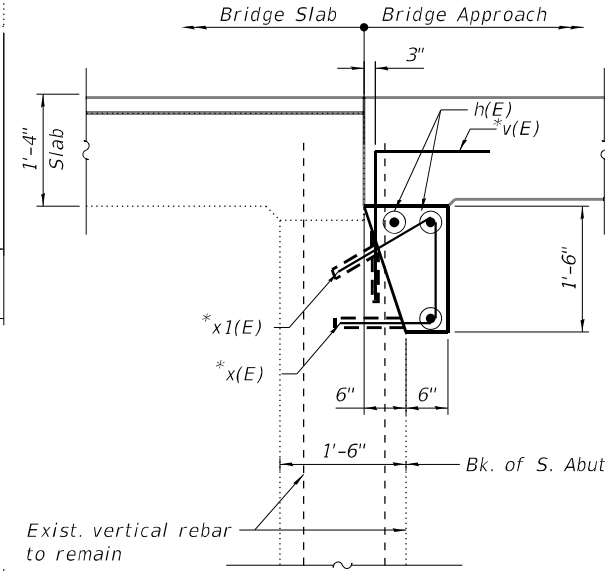
ELEVATION - SOUTH ABUTMENT
(Looking South)

NOTES:

- Quantities and limits are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of inspection.
- For limits of Concrete Removal and Structure Excavation see sheet S-11.

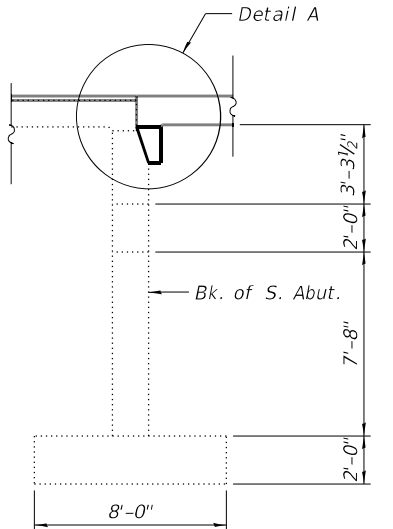
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
v(E)	43	#5	3'-0"	L	
h(E)	3	#5	41'-10"	—	
x(E)	43	#5	2'-4"	L	
x1(E)	43	#5	2'-8"	∟	
Concrete Removal				CU YD	0.6
Structure Excavation				CU YD	8
Concrete Structures				CU YD	1.8
Reinforcement Bars, Epoxy Coated				POUND	2940
Granular Backfill For Structures				CU YD	8
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)				SQ FT	19
Structural Repair Of Concrete (Depth Greater Than 5 Inches)				SQ FT	4



DETAIL A

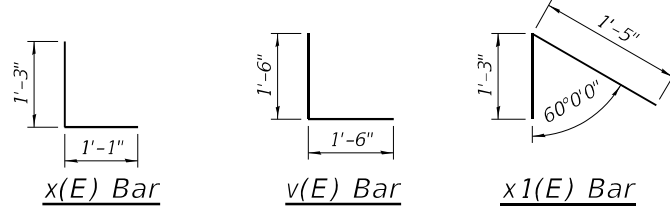
*Epoxy grout v(E), x(E) and x1(E) bars in 9" min. holes according to Art. 584 of the Std. Specs



SECTION A-A

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)
- Structural Repair of Concrete (Depth Greater than 5 Inches)



USER NAME =	DESIGNED - FL	REVISED -
CHECKED - RTB	REVISED -	
PLOT SCALE =	DRAWN - FL	REVISED -
PLOT DATE =	DATE - 11/23/2020	REVISED -

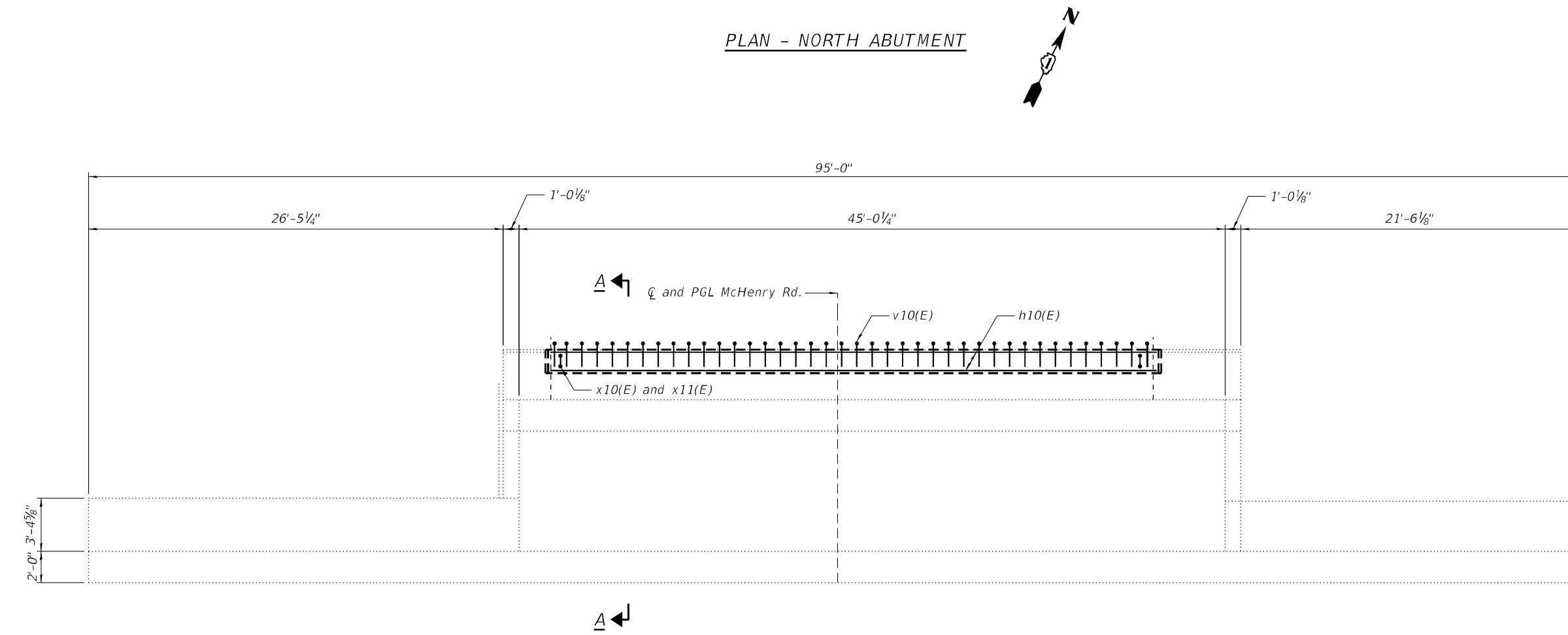
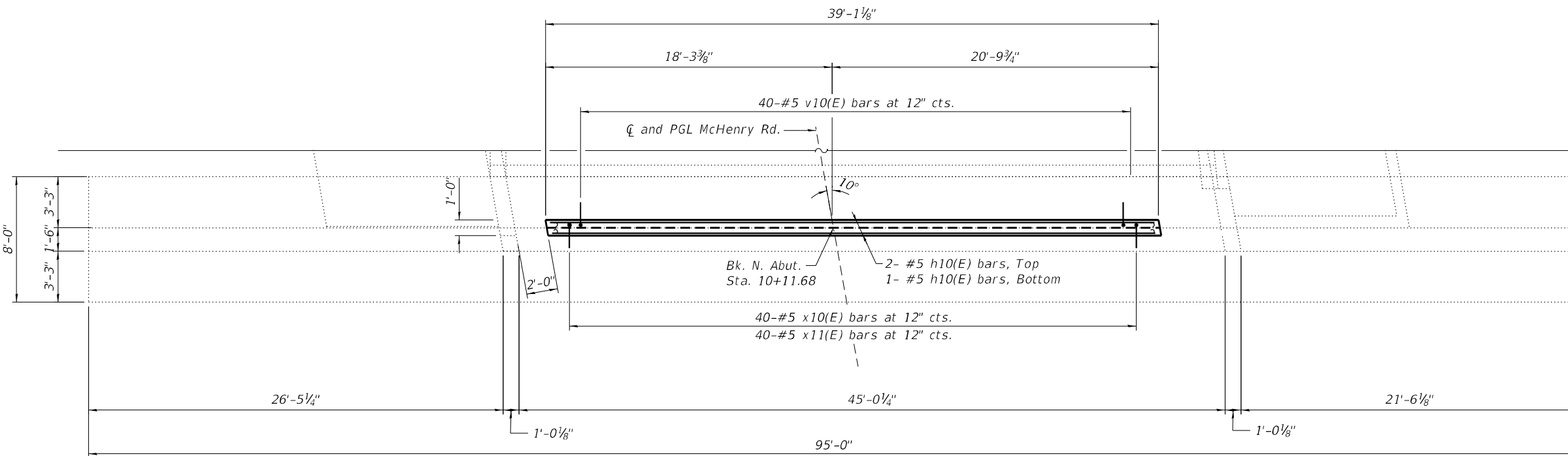
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR ELEVATIONS AND DETAILS (SHEET 1 OF 3)
STRUCTURE NO. 016-0556

F.A.U. RTE. = 2682	SECTION = 2020-151-BR	COUNTY = COOK	TOTAL SHEETS = 26	SHEET NO. = 18
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				

SHEET S-09 OF S-11 SHEETS

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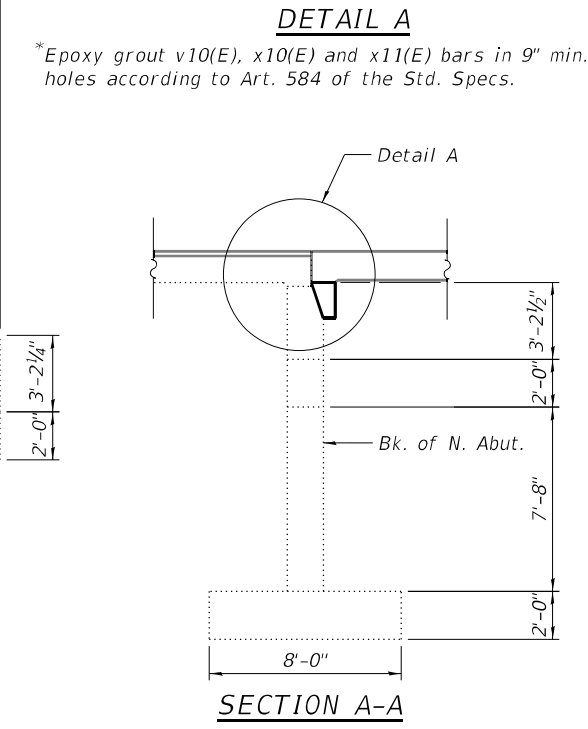
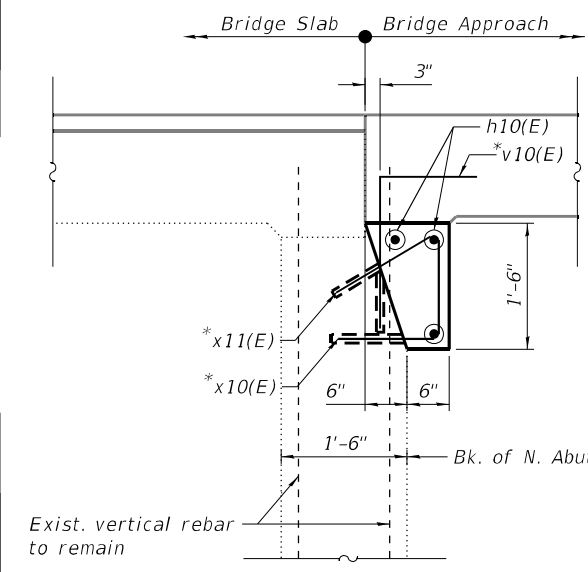
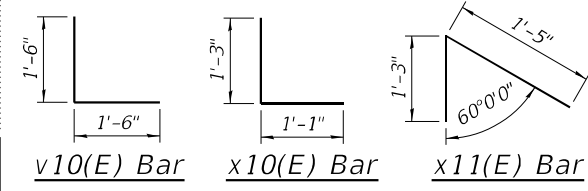


NOTES:

- Quantities and limits are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- For limits of Concrete Removal and Structure Excavation see sheet S-11.

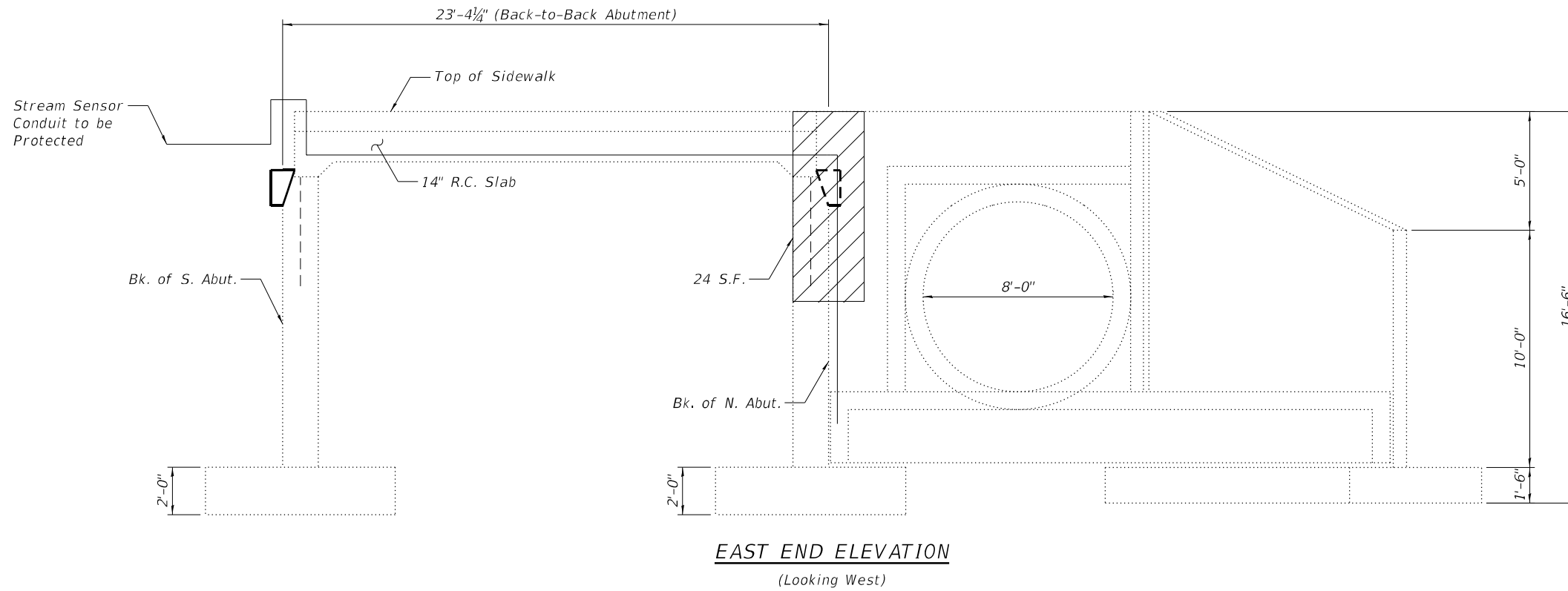
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
v10(E)	40	#5	3'-0"	L
h10(E)	3	#5	38'-10"	—
x10(E)	40	#5	2'-4"	L
x11(E)	40	#5	2'-8"	┘
Concrete Removal			CU YD	0.5
Structure Excavation			CU YD	7
Concrete Structures			CU YD	1.7
Reinforcement Bars, Epoxy Coated			POUND	2720
Granular Backfill For Structures			CU YD	7

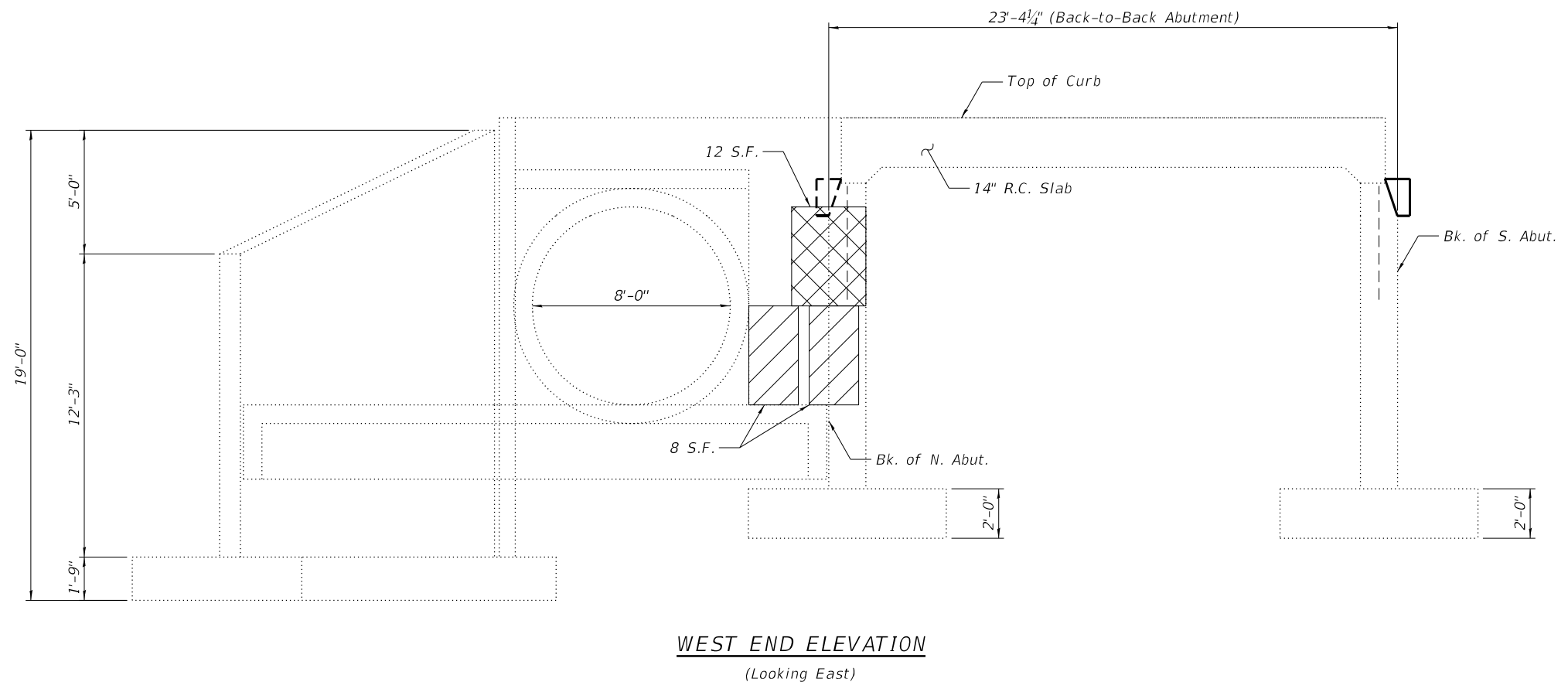


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	PLOT SCALE =	DRAWN - JMI	REVISED -			2682	2020-151-BR	COOK	26	19
	PLOT DATE =	DATE - 11/23/2020	REVISED -			CONTRACT NO. 62M26				
						ILLINOIS FED. AID PROJECT				

MODEL: Default
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 12/17/2020 1:36:26 PM



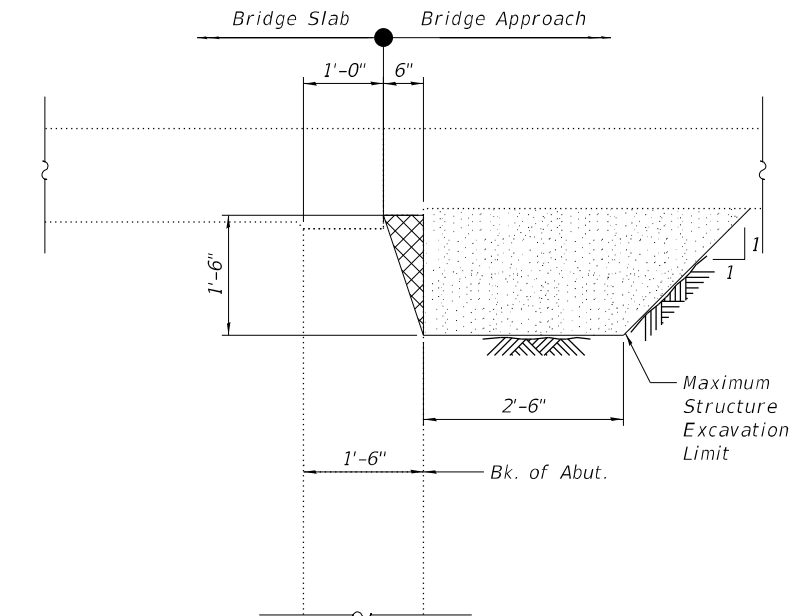
EAST END ELEVATION
 (Looking West)



WEST END ELEVATION
 (Looking East)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ FT	40
Structural Repair of Concrete (Depth Greater than 5")	SQ FT	12



CONCRETE REMOVAL AND STRUCTURE EXCAVATION

NOTES:

- For General Notes and Total Bill of Material, see Sheet S-02.
- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the Engineer in the field at the time of construction.

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5")
- Structural Repair of Concrete (Depth Greater than 5")
- Concrete Removal



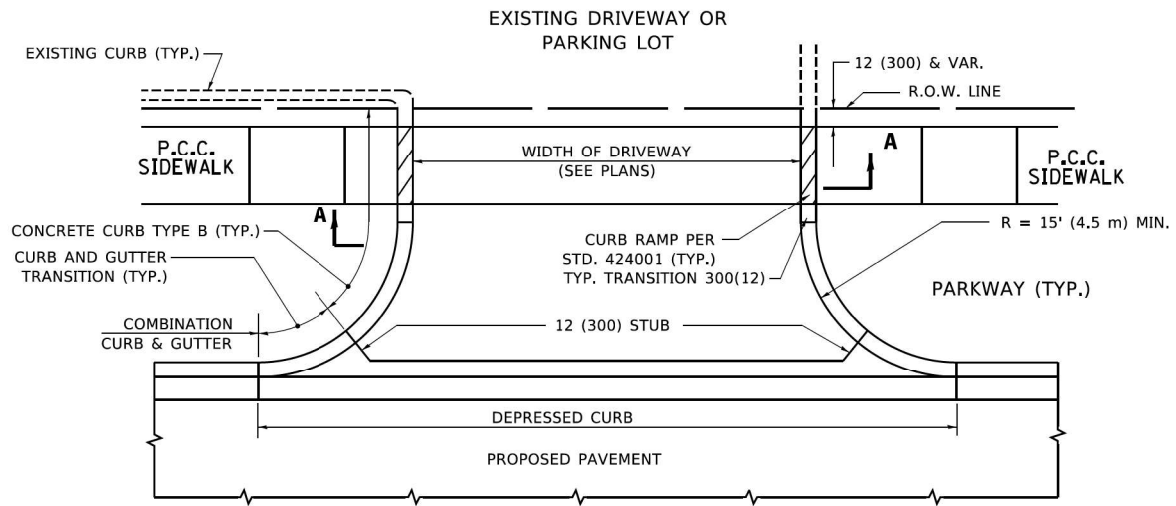
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PLOT DATE =	DATE - 12/17/2020	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

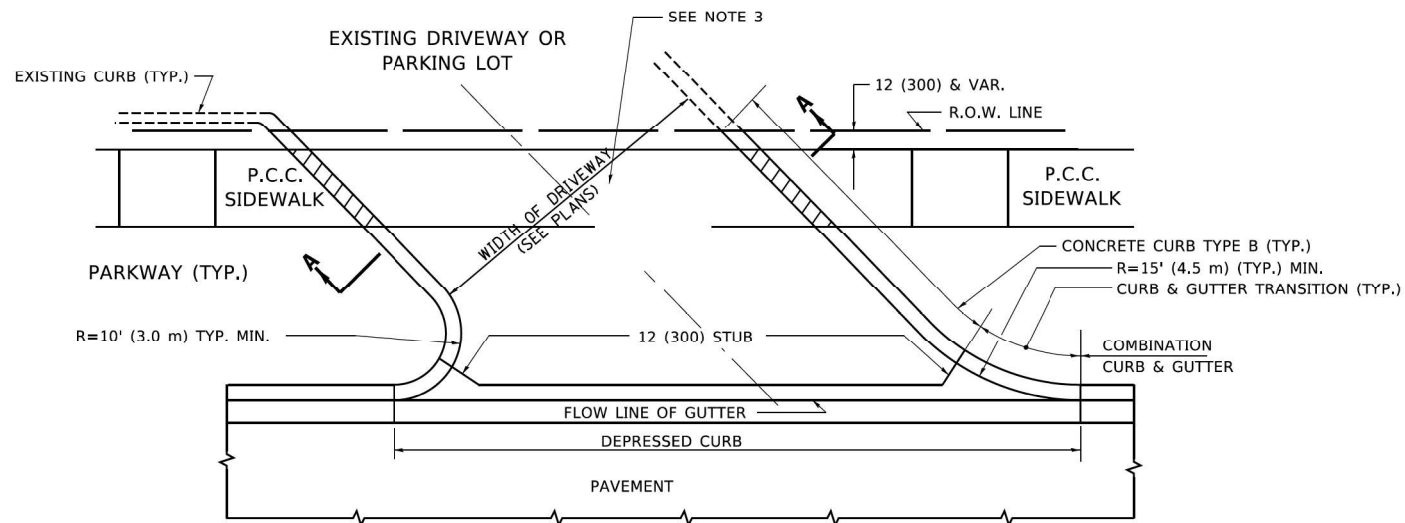
SUBSTRUCTURE REPAIR ELEVATIONS AND DETAILS (SHEET 3 OF 3)
 STRUCTURE NO. 016-0556

SHEET S-11 OF S-11 SHEETS

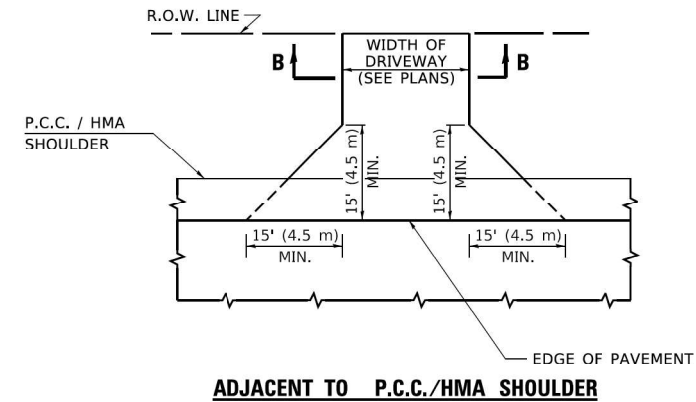
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2682	2020-151-BR	COOK	26	20
CONTRACT NO. 62M26				
ILLINOIS FED. AID PROJECT				



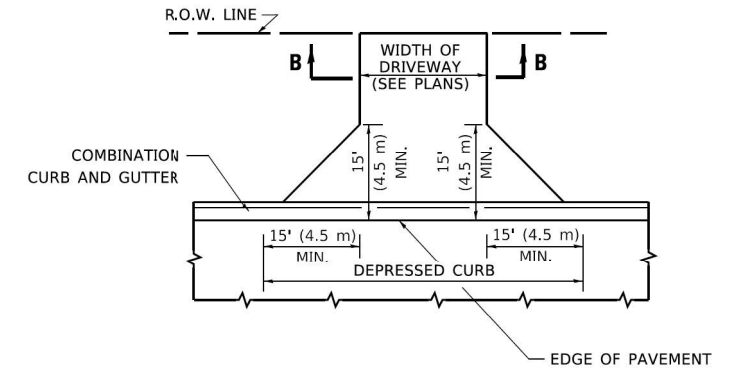
WITH CONCRETE CURB, TYPE B



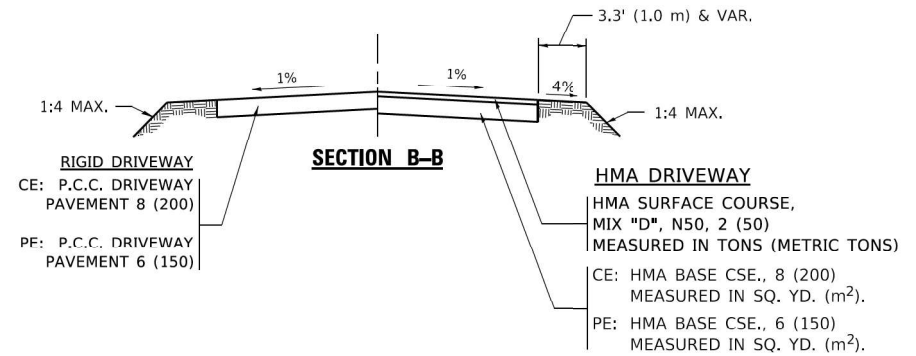
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C./HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

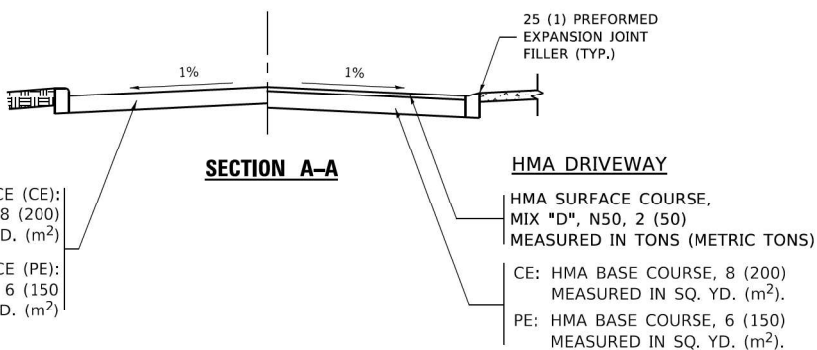
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



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 OFFICE: I:\projects\110111\110111.dwg
 USER: R. SHAH

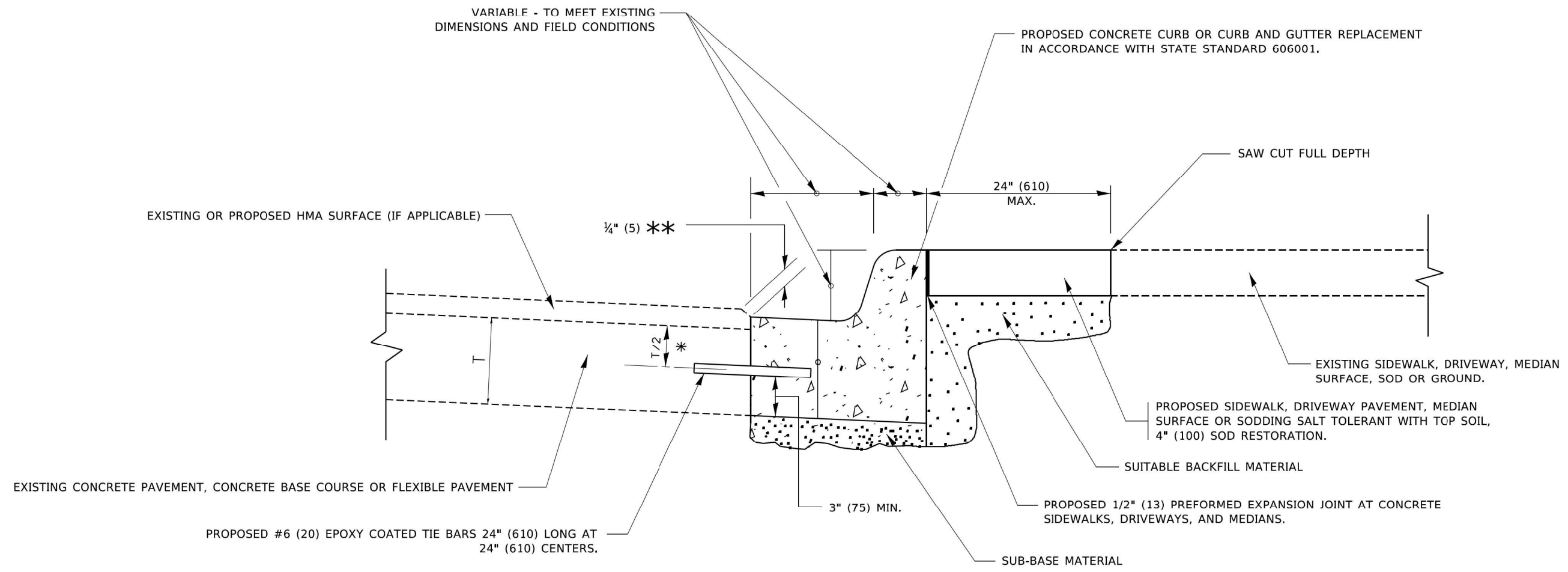
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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
PLOT DATE = 3/27/2019	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)**

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

F.A.U. RTE. 2682	SECTION 2020-151-BR	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 21
BD400-01 (BD-01)			CONTRACT NO. 62M26	
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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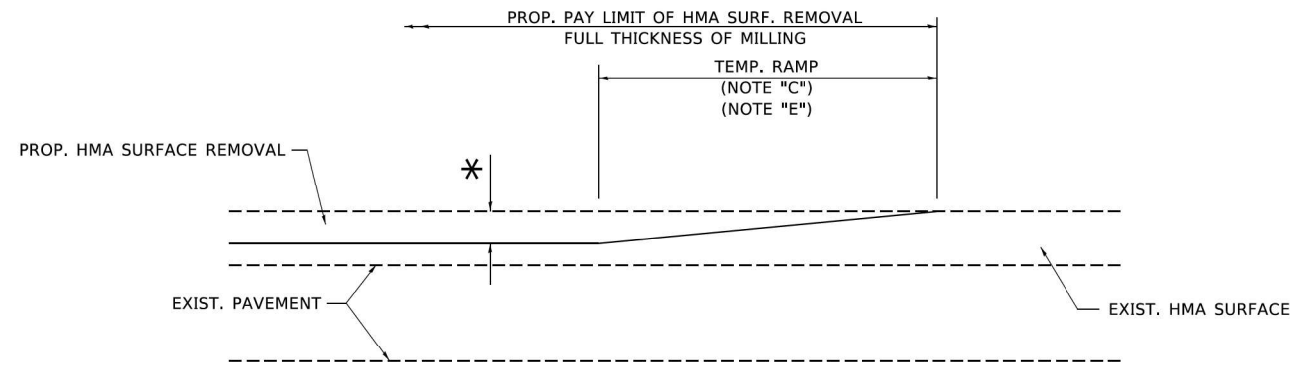
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

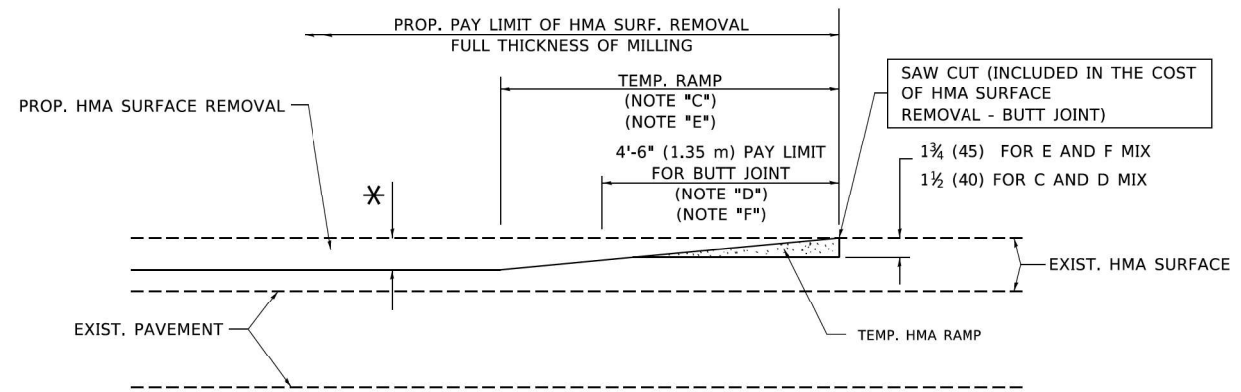
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2682	SECTION 2020-151-BR	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 22
BD600-06 (BD-24)		CONTRACT NO. 62M26		
ILLINOIS FED. AID PROJECT				



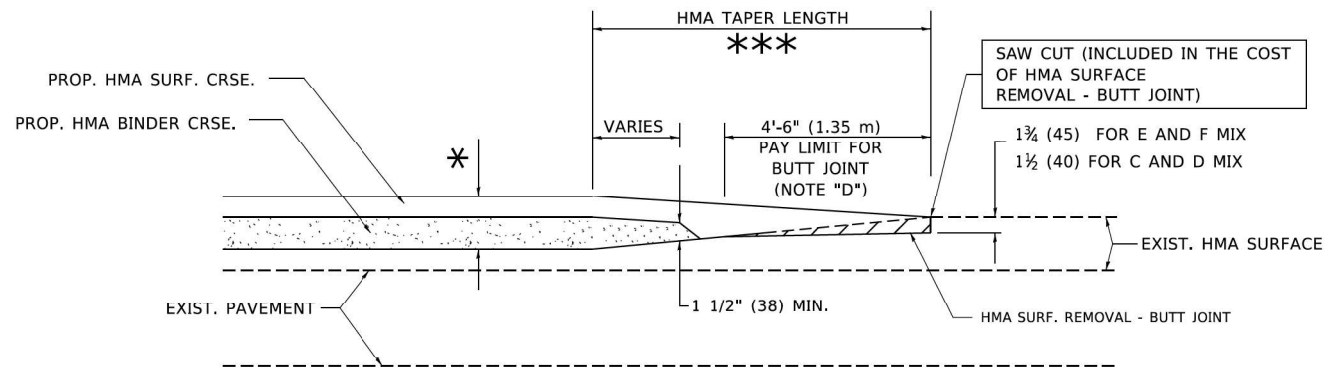
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



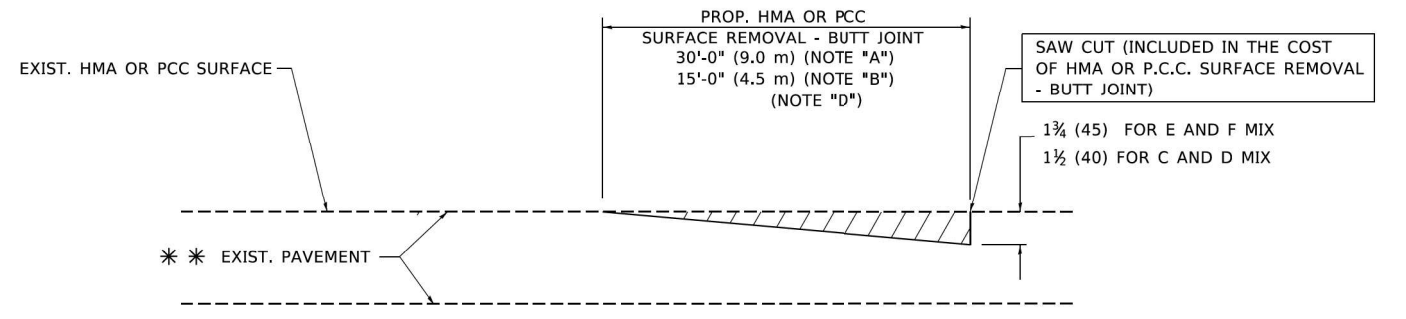
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP

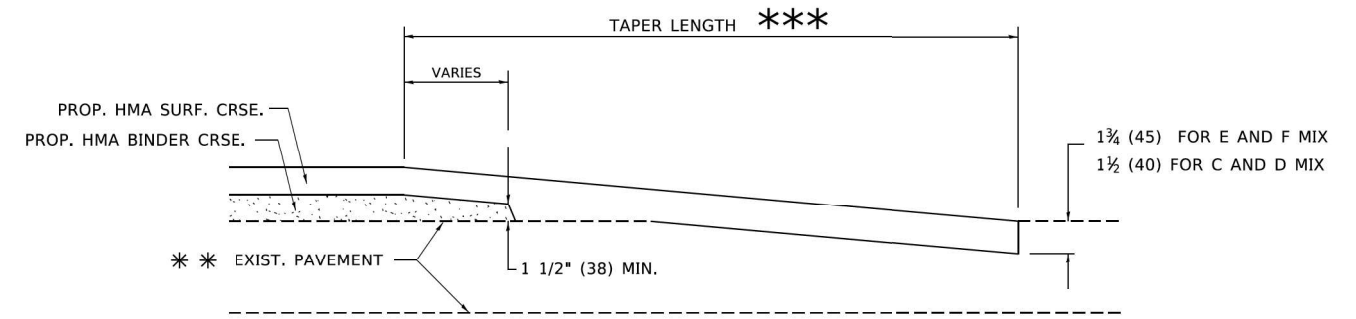


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

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".

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

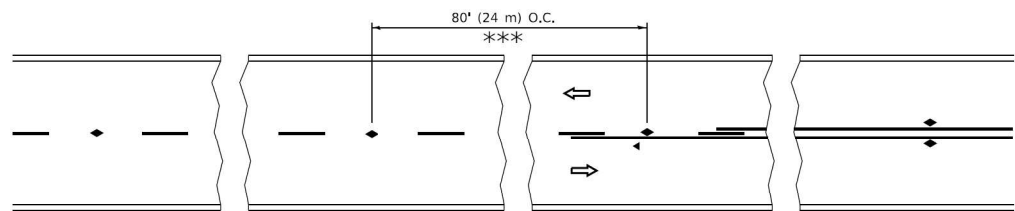
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

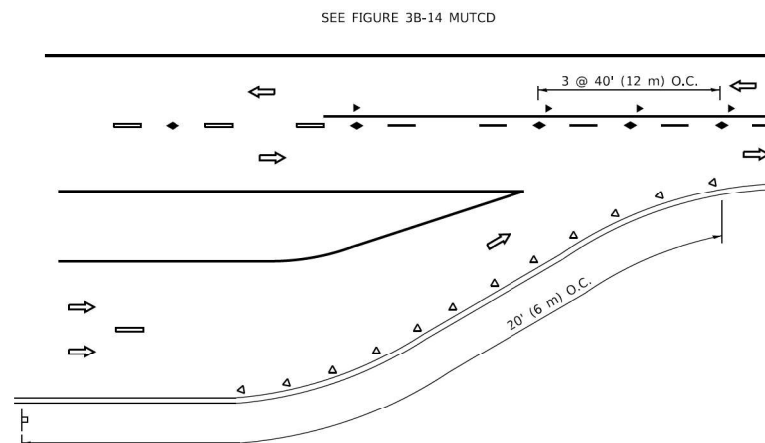
BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	23
BD400-05 BD32		CONTRACT NO. 62M26		
ILLINOIS FED. AID PROJECT				

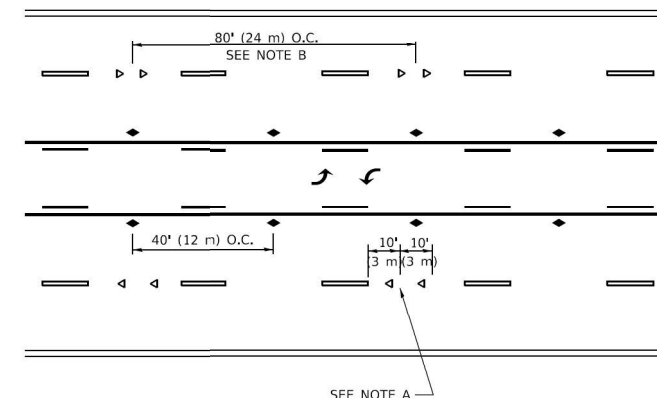


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

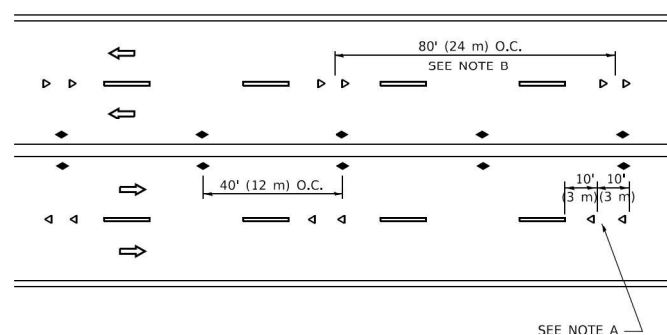
TWO-LANE/TWO-WAY



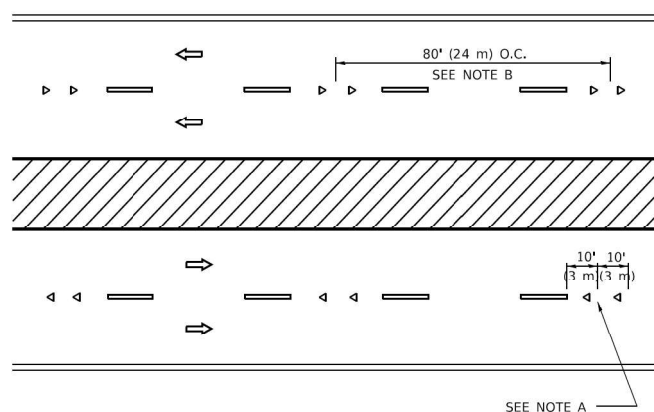
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. 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.
3. 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

SYMBOLS

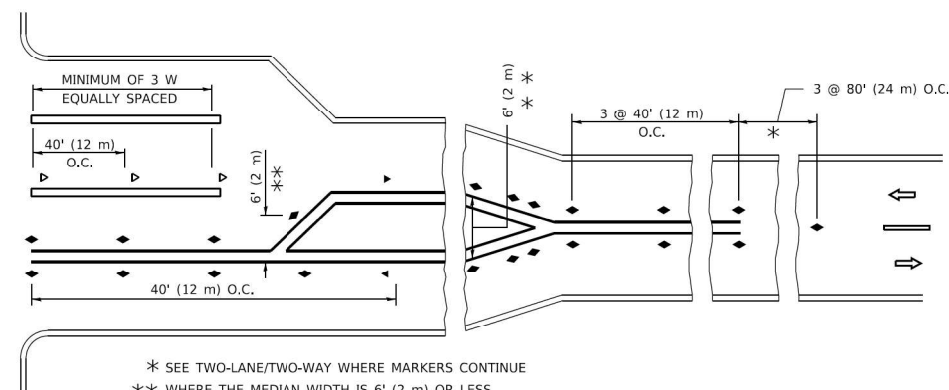
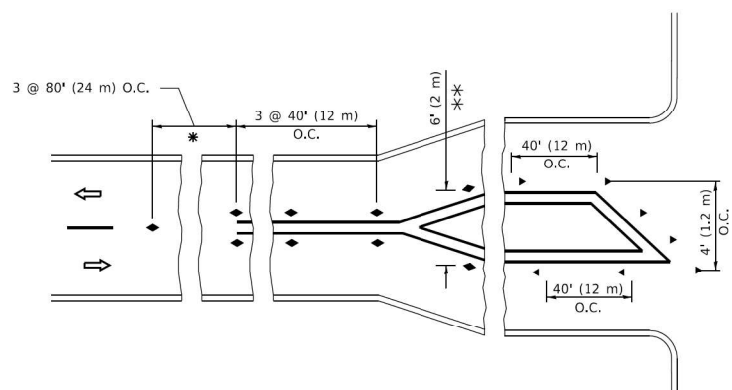
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF C.J.R.B.S WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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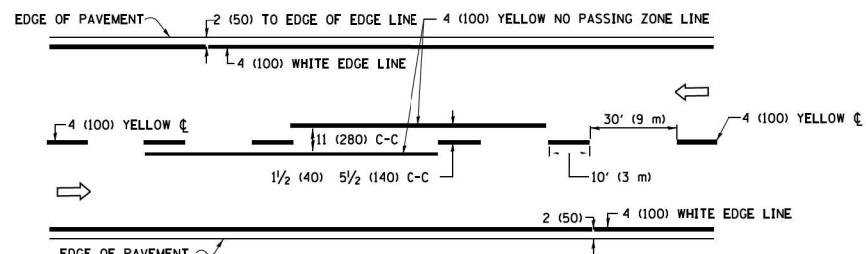
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

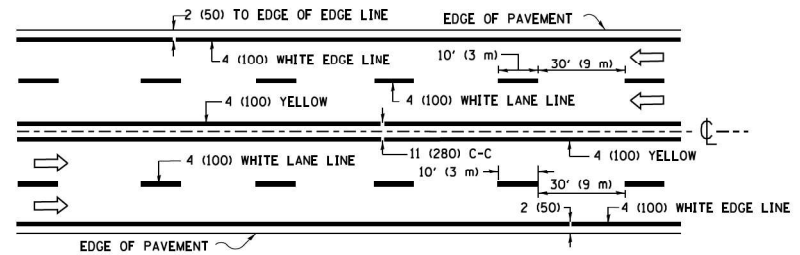
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

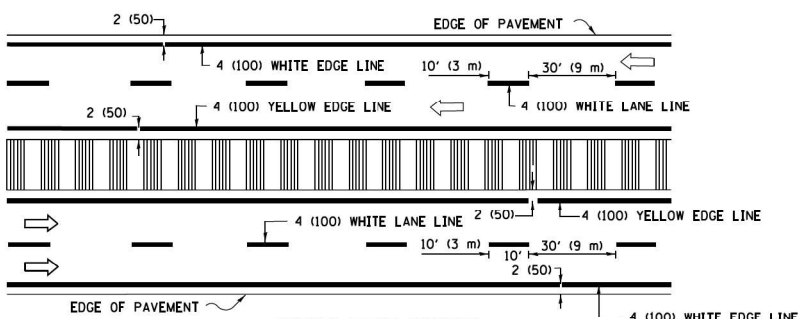
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	24
TC-11			CONTRACT NO. 62M26	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

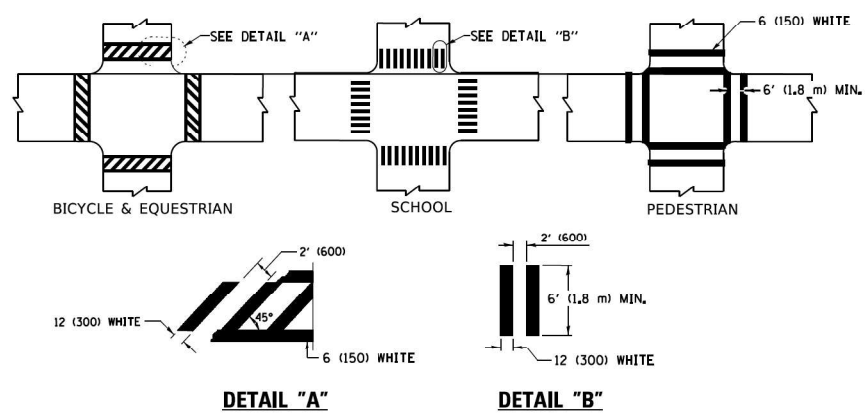


MULTI-LANE UNDIVIDED



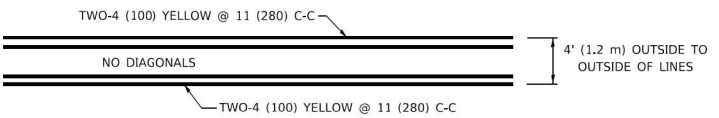
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

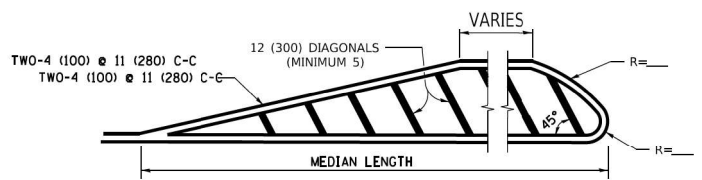


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

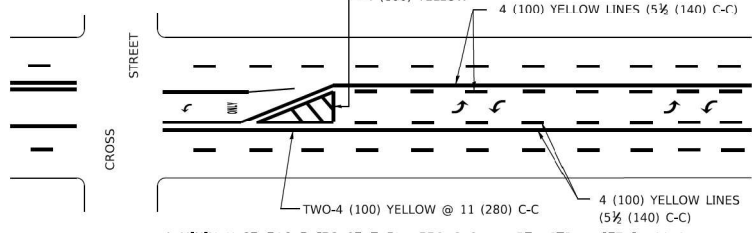


4' (1.2 m) WIDE MEDIANS ONLY



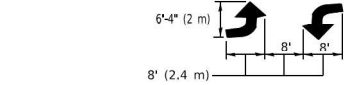
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

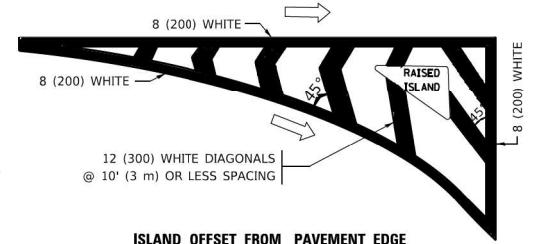
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



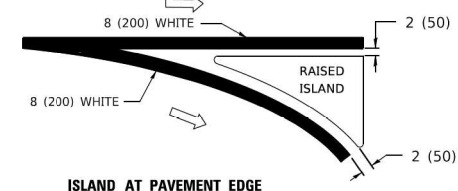
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

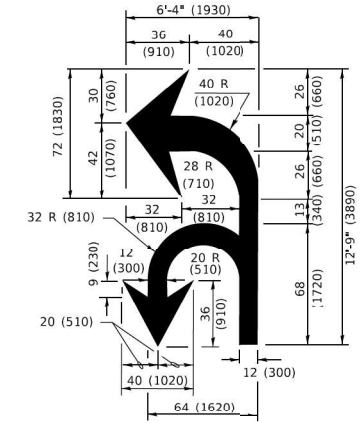


ISLAND OFFSET FROM PAVEMENT EDGE

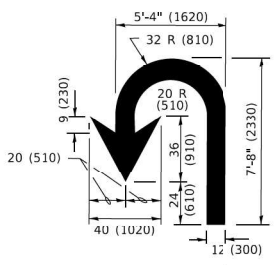


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	7 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	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 POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	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))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: *RR* 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R* = 3.6 SQ. FT. (0.33 m ²) EACH *X* = 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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USER NAME	DESIGNED	REVISED
= footemj	- EVERS	- C. JUCIUS 09-09-09
	- DRAWN	- C. JUCIUS 07-01-13
	- CHECKED	- C. JUCIUS 12-21-15
	- DATE	- C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2682	2020-151-BR	COOK	26	25
TC-13			CONTRACT NO. 62M26	
ILLINOIS FED. AID PROJECT				

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ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

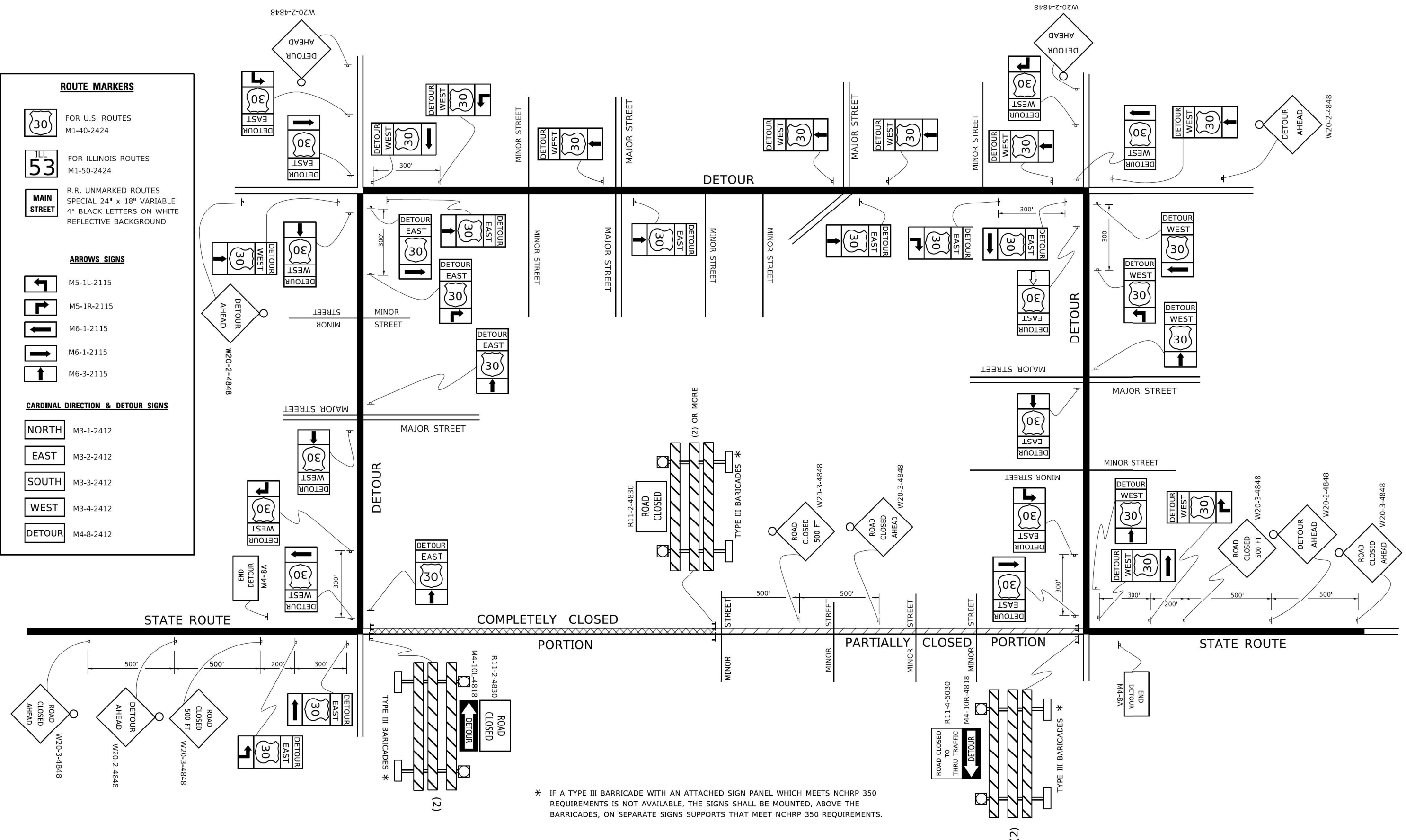
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
DRAWN -	CHECKED -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / 1/4"	DATE -	REVISED -
PLOT DATE = 3/4/2019		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE. 2682	SECTION 2020-151-BR	COUNTY COOK	TOTAL SHEETS 26	SHEET NO. 26
TC-21		CONTRACT NO. 62M26		
ILLINOIS FED. AID PROJECT				