

ROUTE	SECTION NUMBER	SHEET NO.	TOTAL SHEETS
CH T64	16-00457-00-BR	1	40

STATE OF ILLINOIS
COUNTY OF McHENRY
DIVISION OF TRANSPORTATION

**PLANS FOR
PROPOSED HIGHWAY**
MILLSTREAM ROAD (CH T64)
NORTH AND SOUTH BRIDGE
OVER THE KISHWAUKEE RIVER
BRIDGE REHABILITATION
SECTION 16-00457-00-BR

FOR INDEX OF SHEETS, SEE SHEET NO. 2

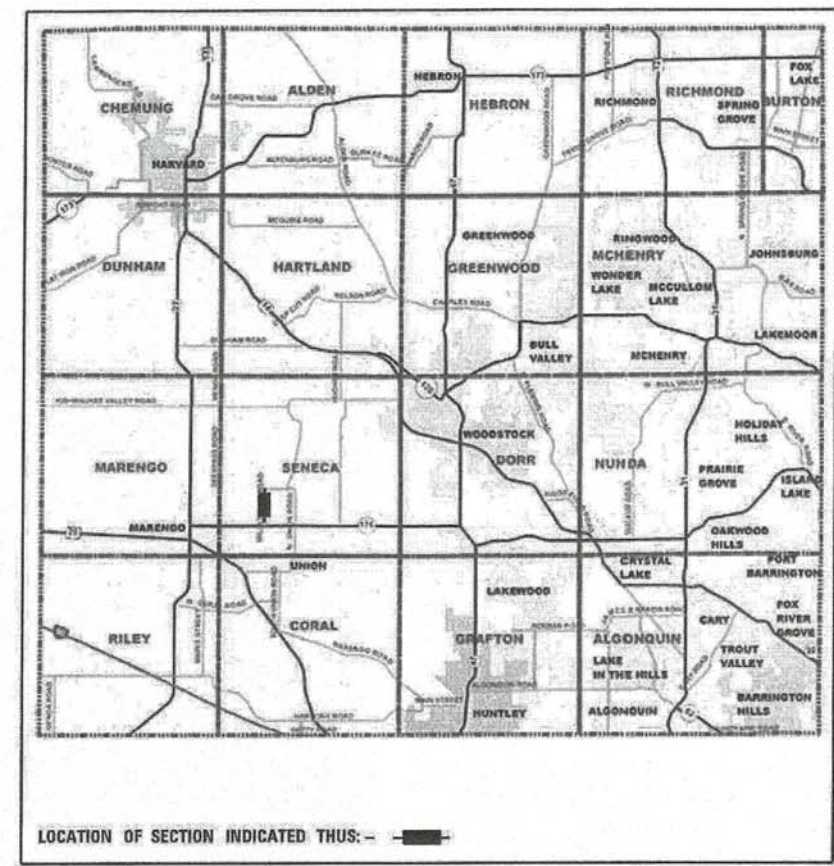
PROJECT LOCATED IN SENECA TOWNSHIP

TRAFFIC DATA

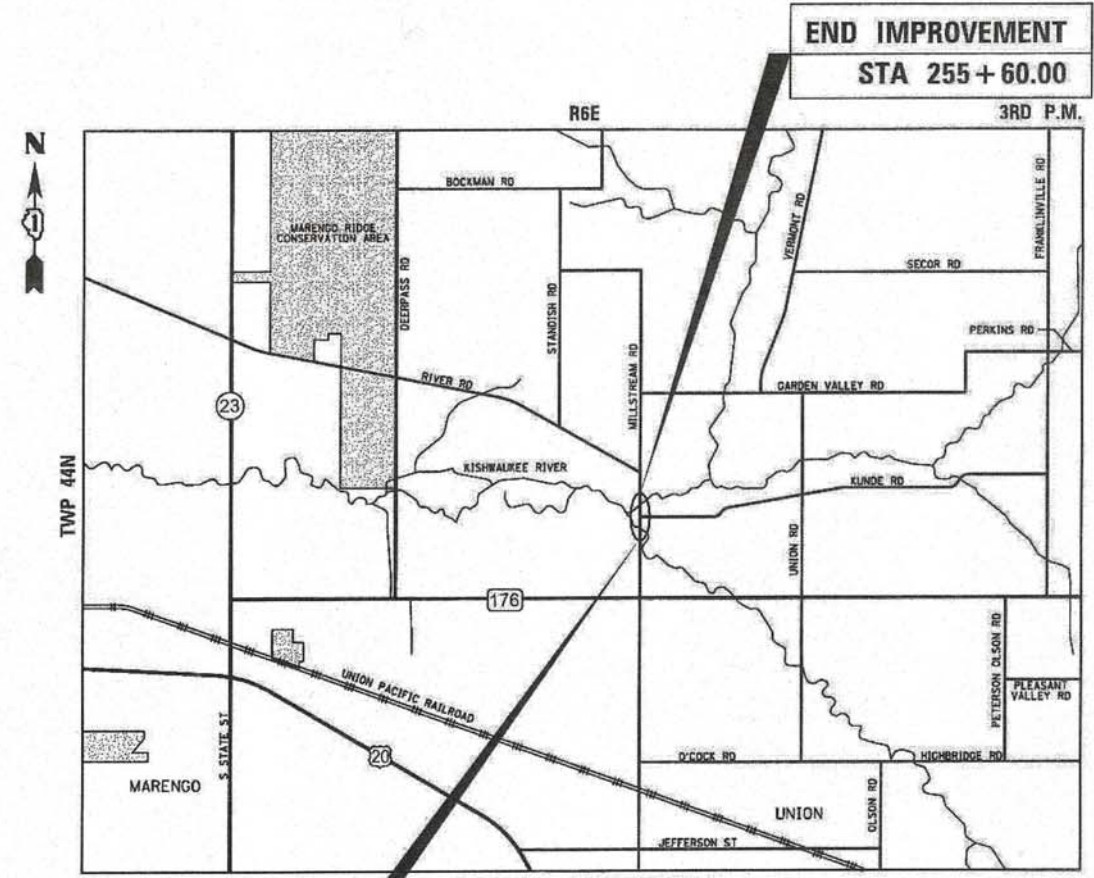
ADT: MILLSTREAM ROAD - 1806 (2015)
DESIGN SPEED: 60 MPH (POSTED 55 MPH)

STRUCTURE NUMBER

SOUTH BRIDGE: EX. SN 056-3023
NORTH BRIDGE: EX. SN 056-3022



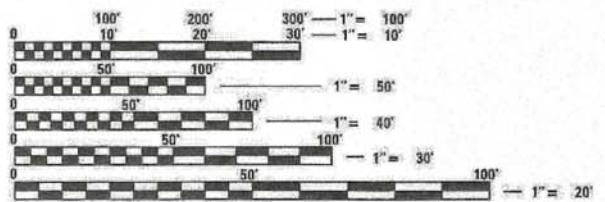
Bollinger, Lach & Associates, Inc.
335 PIERCE ROAD SUITE 200 ITASCA, IL 60143
TEL: 630-438-6400 FAX: 630-438-6444 www.bollingerlach.com
ILLINOIS • INDIANA • WISCONSIN



BEGIN IMPROVEMENT
STA 243 + 50.00

END IMPROVEMENT
STA 255 + 60.00

**SENECA TOWNSHIP
PROJECT LENGTH**
GROSS LENGTH = 1,210.0 FT. = 0.229 MILE
NET LENGTH = 918.5 FT. = 0.174 MILE
OMISSION LENGTH = 291.5 FT. = 0.055 MILE



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 EXCAVATION
1-800-892-0123
OR 811

STATE OF ILLINOIS
JOEL J. IHDE
5051
ITASCA
LICENSED PROFESSIONAL ENGINEER
12-20-2016
Exp. 11-30-2018

MATTHEW T. CESARIO
062.066160
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS

[Signature]
DATE 12-20-2016
MATTHEW CESARIO
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062.066160
MY LICENSE EXPIRES ON 11-30-17.

**McHENRY COUNTY
DIVISION OF TRANSPORTATION**

APPROVED December 15 20 16

[Signature]
Joseph R. Kopsalski, Jr.
COUNTY ENGINEER

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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016 (HEREIN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED APRIL 1, 2017; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE CURRENT IDOT STANDARD REVISION AND SHALL TAKE PRECEDENCE OVER THE EARLIER REVISIONS THAT MAY BE REFERRED TO ELSEWHERE IN THE PLANS OR SPECIAL PROVISIONS. SHOULD A REVISED STANDARD EXIST THAT SUPERSEDES STANDARDS REFERENCED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SEEK CLARIFICATION FROM THE ENGINEER PRIOR TO ORDERING MATERIALS, SCHEDULING PERSONNEL, AND PERFORMING THE WORK OR ANY OTHER ACTIVITY RELATED TO THE WORK. THE CONTRACTOR SHALL IDENTIFY THE CORRECT STANDARD BEFORE PERFORMING WORK.
- ALL RELEVANT UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, LOCAL HOSPITALS, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS AND UTILITY SECTION OF GENERAL NOTES UNDER STATUS OF UTILITIES TO BE ADJUSTED FOR CONTACT INFORMATION OF RELEVANT PARTIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY, STATE, TOWNSHIP, OR VILLAGE PROPERTY OR RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE COUNTY.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRIVEWAY ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- SAW CUTTING SHALL BE 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 BEING REMOVED.
- THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT-MIX ASPHALT MIXTURES ARE TO BE PLACED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MATCHING SHALL NOT EXCEED 1-1/2" WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1" WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH, WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- FOR CLASS D PATCHING, CONTRACTOR SHALL MILL BEFORE PATCHING AS DIRECTED BY THE ENGINEER. CLASS D PATCHING SHALL BE USED AT THE DIRECTION OF THE ENGINEER IF DEEMED NECESSARY. THE ACTUAL LOCATIONS AND SIZE OF BASE PATCHES WILL BE DETERMINED IN THE FIELD. NO COMPENSATION WILL BE ALLOWED FOR UNUSED PATCHING QUANTITIES.
- ALL ELEVATIONS ARE ON THE U.S.G.S. DATUM NAVD 88.
- ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.
- CHANGEABLE MESSAGE SIGNS (QUANTITY = 4) SHALL BE PLACED AT PROJECT LIMITS, OR AS DIRECTED BY THE ENGINEER, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO INFORM THE PUBLIC OF THE ANTICIPATED SCHEDULE AND UPDATES.
- THE CONTRACTOR SHALL NOT RAISE TRUCK BEDS UNDERNEATH OVERHEAD UTILITIES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION. NO ADDITIONAL COST SHALL OCCUR WITH OBTAINING THESE PERMITS.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- DISTRIBUTORS: ALL DISTRIBUTORS FOR HOT-MIX ASPHALT PAVING OPERATIONS SHALL BE EQUIPPED WITH SHIELDS TO PREVENT DAMAGES TO MOTORIST'S VEHICLES AND TO ADJACENT HIGHWAY APPURTENANCES.
- ANY RIGHT OF WAY MARKERS DISTURBED BY THE CONTRACTORS OPERATIONS NOT SCHEDULED FOR REMOVAL SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTORS EXPENSE.

EROSION CONTROL GENERAL NOTES

1. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE UNLESS OTHERWISE SPECIFIED IN THE SUPPLEMENTARY CONDITIONS FOR THE INSTALLATION AND MAINTENANCE OF THE SOIL AND EROSION AND SEDIMENTATION CONTROL FOR THIS SITE. PRIOR TO ANY CONSTRUCTION ACTIVITY THE INITIAL SOIL EROSION AND SEDIMENTATION CONTROL MUST BE INSPECTED AND APPROVED BY THE REQUIRED AGENCY AND OR QUALIFIED PERSONNEL.
2. EROSION CONTROL WORK ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE CONTRACTOR WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
3. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE PROVISIONS OF THE COUNTY CODE, THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, IEPA STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND ANY LOCAL POLLUTION CONTROL ORDINANCES.
4. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE ENGINEER/COUNTY. THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS THE MINIMUM TO GET THIS PROJECT STARTED. IT IS EXPECTED TO CHANGE AS THE PROJECT PROCEEDS. ALL COSTS ASSOCIATED WITH SOIL EROSION AND SEDIMENTATION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY, UNLESS OTHERWISE SPECIFIED IN THE SUPPLEMENTARY CONDITIONS.
5. UNLESS OTHERWISE INDICATED ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER/COUNTY.
8. ALL EROSION CONTROL MEASURES MUST BE INSPECTED, AND THE INSPECTION REPORT MUST BE SIGNED BY THE CONTRACTOR EVERY SEVEN DAYS AND AFTER EACH 1/2" RAIN EVENT OR EQUIVALENT SNOWFALL, AND SIGNIFICANT SNOWMELT.
9. THE CONTRACTOR SHALL INSTALL DOUBLE ROWS OF PERIMETER EROSION BARRIER SPACED ONE FOOT APART, ADJACENT TO EXISTING WETLANDS AND WATERS OF THE U.S.
10. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (<http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control>).
11. THE CONTRACTOR SHALL MAKE SURE THAT NO DEBRIS WILL BE DROPPED INTO THE CHANNEL. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR THE TASK OF THE REMOVAL IF THE INCIDENT DOES OCCUR.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY-SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

PAVEMENT MARKING NOTES

1. PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, STANDARD DETAIL 780001, DISTRICT ONE STANDARDS, THE PLAN DETAILS AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. ALL 4" EDGE LINES SHALL MATCH THE EXISTING MARKING AT THE LIMITS EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.
3. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES, VIA GEOMETRIC MEASUREMENTS AND PHOTOS, IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

COMMITMENTS

NONE

CONTACT INFORMATION

ATT:
HECTOR GARCIA
1000 COMMERCE DRIVE
OAK BROOK, ILLINOIS 60523
630-573-5465

FIRE DEPARTMENT:
MARENGO FIRE PROTECTION DISTRICT
120 E. PRAIRIE STREET
MARENGO, ILLINOIS 60152
815-568-8912

COMED:
NORA FERNANDEZ
123 ENERGY AVENUE
ROCKFORD, ILLINOIS 61109
815-490-2335

SCHOOL DISTRICT:
MARENGO-UNION DISTRICT #165
816 E. GRANT HWY
MARENGO, ILLINOIS 60152
815-568-8323

MCHENRY COUNTY SHERIFF:
2200 N. SEMINARY AVENUE
WOODSTOCK, ILLINOIS 60098
815-338-2144

UNITED STATES POSTAL SERVICE:
JASON HOWARD - POST MASTER
223 E. GRANT HWY
MARENGO, ILLINOIS 60152
815-568-7449



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**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
INDEX OF SHEETS, HIGHWAY STNDS, GEN. NOTES & COMMITMENTS**

SCALE: NA SHEET 2 OF 2 SHEETS STA. NA TO STA. NA

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	3
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SOUTH BRIDGE	NORTH BRIDGE
				0001	0014 056-3023	0014 056-3022
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	6	6		
28000400	PERIMETER EROSION BARRIER	FOOT	1444	1444		
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	5	5		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	35.0	35.0		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	31.0	31.0		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	50	50		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	69	69		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	643	643		
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	13	13		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	20	20		
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	20	20		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	13	13		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	139.0		74	65
50102400	CONCRETE REMOVAL	CU YD	1		0.5	0.5

* SPECIALTY ITEM
SPECIAL PROVISION AND/OR DETAIL



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DATE - 11/11/2016

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**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
SUMMARY OF QUANTITIES**
SCALE: NA SHEET 1 OF 3 SHEETS STA. NA TO STA. NA

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SOUTH BRIDGE	NORTH BRIDGE
				0001	0014 056-3023	0014 056-3022
50300225	CONCRETE STRUCTURES	CU YD	3.1		1.6	1.5
50300260	BRIDGE DECK GROOVING	SQ YD	906		467	439
50300300	PROTECTIVE COAT	SQ YD	945		487	458
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	120		60	60
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13120		6970	6150
52100520	ANCHOR BOLTS, 1"	EACH	8		4	4
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	187.5	187.5		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
* 63100080	TRAFFIC BARRIER TERMINAL, TYPE 5R	EACH	1	1		
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	7	7		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	7		
* 63200310	GUARDRAIL REMOVAL	FOOT	609	609		
67100100	MOBILIZATION	LSUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4		

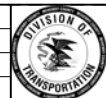
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**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
SUMMARY OF QUANTITIES**

SCALE: NA SHEET 2 OF 3 SHEETS STA. NA TO STA. NA

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	SOUTH BRIDGE	NORTH BRIDGE
				0001	0014 056-3023	0014 056-3022
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8		
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1273	1273		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	32	32		
# X0322194	POLYMER MODIFIED PORTLAND CEMENT MORTAR	SO FT	28		26	2
# * X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5	12.5		
# X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
# Z0012142	BRIDGE DECK SCARIFICATION 2 1/4"	SO YD	945		487	458
# Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	667		314	353
# Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SO FT	92		22	70
# Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
# Z0021906	SILICONE JOINT SEALER, 1.5"	FOOT	157		83	74
# Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	154.2	154.2		
# Z0032700	KEYWAY REPAIR	FOOT	335		305	30
# Z0041895	POLYMER CONCRETE	CU FT	21		11	10
# Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	1		1	
#	BRIDGE DECK LATEX CONCRETE OVERLAY 3 3/4"	SO YD	945		487	458

* SPECIALTY ITEM
SPECIAL PROVISION AND/OR DETAIL



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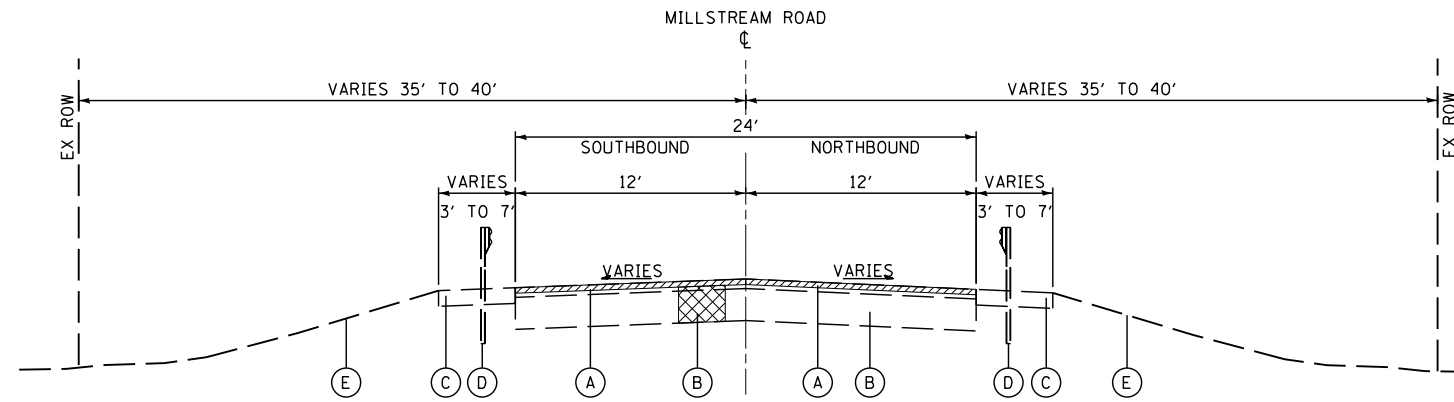
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MCHENRY COUNTY
DIVISION OF TRANSPORTATION

MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
SUMMARY OF QUANTITIES
SCALE: NA SHEET 3 OF 3 SHEETS STA. NA TO STA. NA

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION - MILLSTREAM ROAD

STA 243+50.00 TO STA 248+16.50
 BRIDGE OMISSION STA 245+04.87 TO STA 246+61.87
 STA 251+08.00 TO STA 255+60.00
 BRIDGE OMISSION STA 252+43.79 TO STA 253+90.80

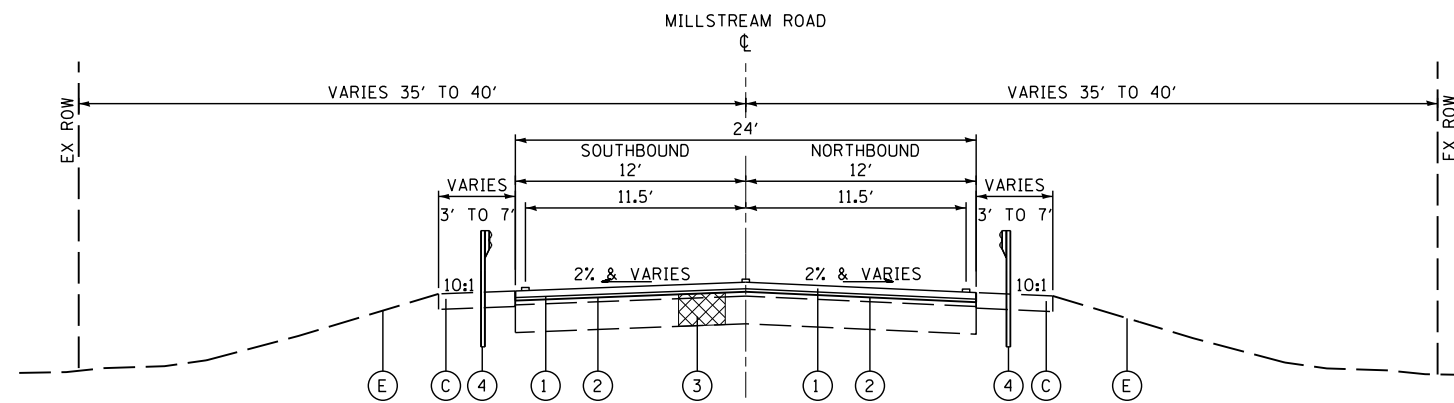
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- CLASS D PATCHES (AS DIRECTED BY THE ENGINEER)

EXISTING LEGEND

- (A) EX. HOT-MIX ASPHALT SURFACE COURSE, 4" (R=2 1/2")
- * (B) EX. AGGREGATE BASE COURSE, 6" (AS REQUIRED FOR PATCHING)
- (C) EX. AGGREGATE SHOULDER, 8"
- (D) EX. STEEL PLATE BEAM GUARDRAIL (R)
- (E) EX. TOPSOIL

ITEMS WITH (R) ARE TO BE REMOVED AS SHOWN ON THE TYPICAL SECTIONS AND/OR ON THE PLAN SHEETS.

* ITEM TO BE REMOVED AND REPLACED IN KIND AT LOCATIONS IN THE FIELD DIRECTED BY THE ENGINEER.



PROPOSED TYPICAL SECTION - MILLSTREAM ROAD

STA 243+50.00 TO STA 248+16.50
 BRIDGE OMISSION STA 245+04.87 TO STA 246+61.87
 STA 251+08.00 TO STA 255+60.00
 BRIDGE OMISSION STA 252+43.79 TO STA 253+90.80

- CLASS D PATCHES (AS DIRECTED BY THE ENGINEER)

PROPOSED LEGEND

- (1) PR. HMA SURFACE COURSE, MIX "D", N50, 1 3/4"
- (2) PR. LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- * (3) CLASS D PATCHES, 10 INCHES
- (4) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FT POST

* ITEM TO BE REMOVED AND REPLACED IN KIND AT LOCATIONS IN THE FIELD DIRECTED BY THE ENGINEER.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 1 3/4"	4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N50 (IL 9.5 mm), 3/4"	4% @ 50 GYR
PAVEMENT PATCHING	
CLASS D PATCHES, HOT-MIX ASPHALT BINDER (IL 19 mm), N70; 10"	4% @ 70 GYR

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SO 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 58-28"

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED - WJT
 DRAWN - WJT
 CHECKED - MTC
 DATE - 11/11/2016

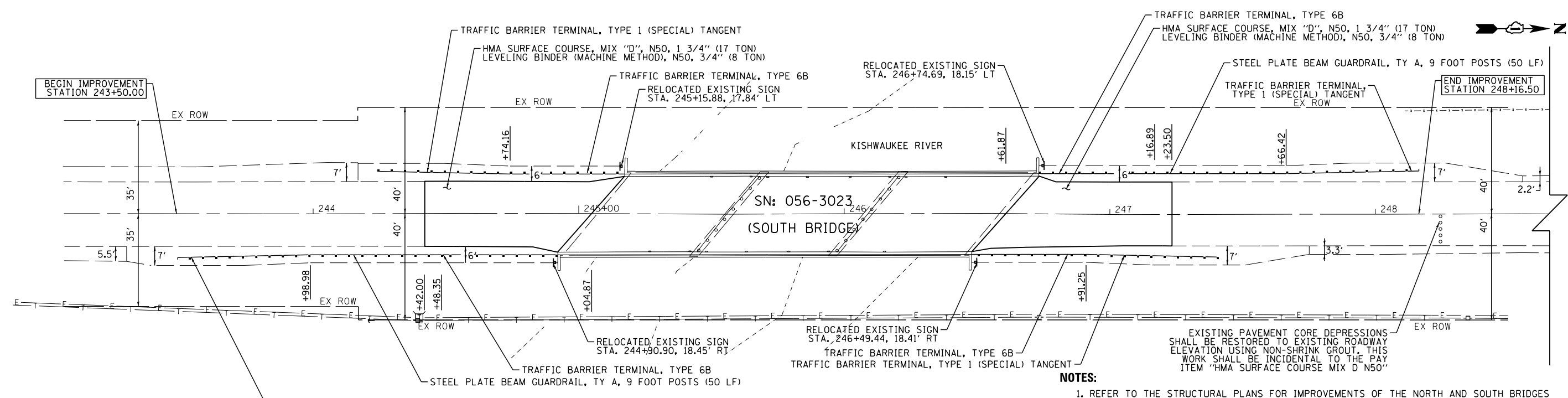
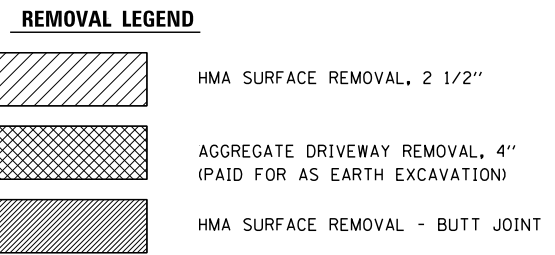
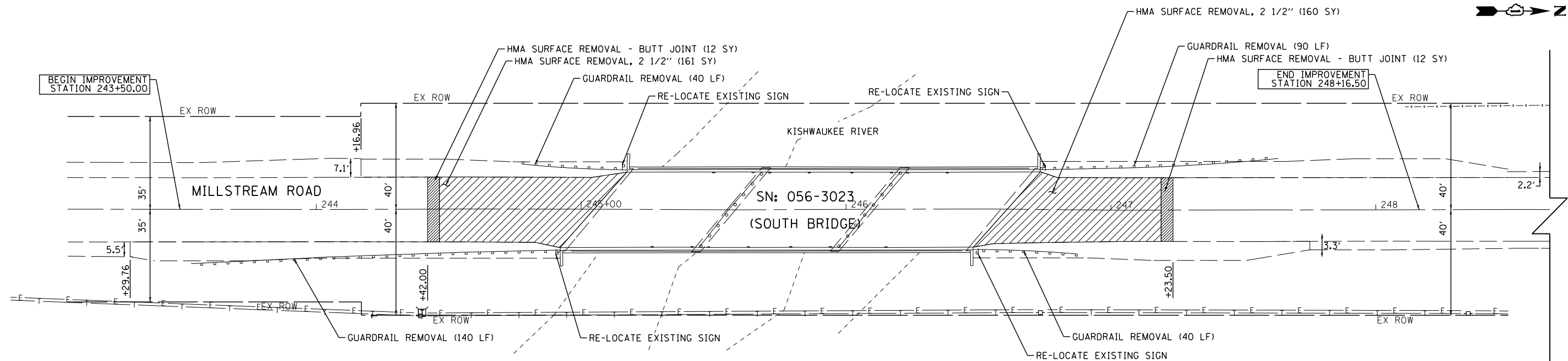
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
 TYPICAL SECTIONS**
 -SCALE: N/A SHEET 1 OF 1 SHEETS STA. 243+50.00 TO STA. 255+60.00

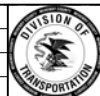
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. REFER TO THE STRUCTURAL PLANS FOR IMPROVEMENTS OF THE NORTH AND SOUTH BRIDGES AND FOR CRACK CONTROL TREATMENT.
 2. PROPOSED PAVEMENT SHALL TRANSITION TO PROPOSED BRIDGE DECK OVERLAY. THIS SHALL BE INCLUDED IN THE CONTRACT ITEM "LEVELING BINDER (MACHINE METHOD), N50"
 3. EXISTING SIGNS INDICATED IN THE PLAN SHALL BE REMOVED, STORED, AND RE-ERECTED AT THE LOCATION SHOWN. THIS SHALL BE INCIDENTAL TO THE COST OF "GUARDRAIL REMOVAL". ANY SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND MCDOT.



USER NAME = *USER*	DESIGNED - WJT	REVISED -
PLOT SCALE = *SCALE*	DRAWN - WJT	REVISED -
PLOT DATE = *DATE*	CHECKED - MTC	REVISED -
	DATE - 11/11/2016	REVISED -



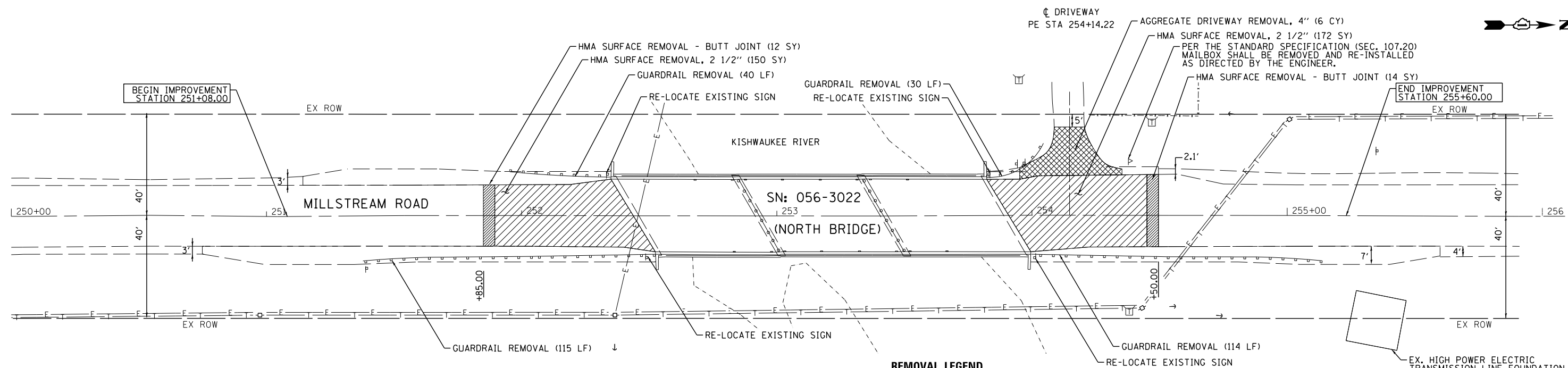
**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
ROADWAY REMOVAL AND IMPROVEMENT PLAN**


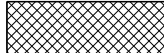

SCALE: 1"=20'

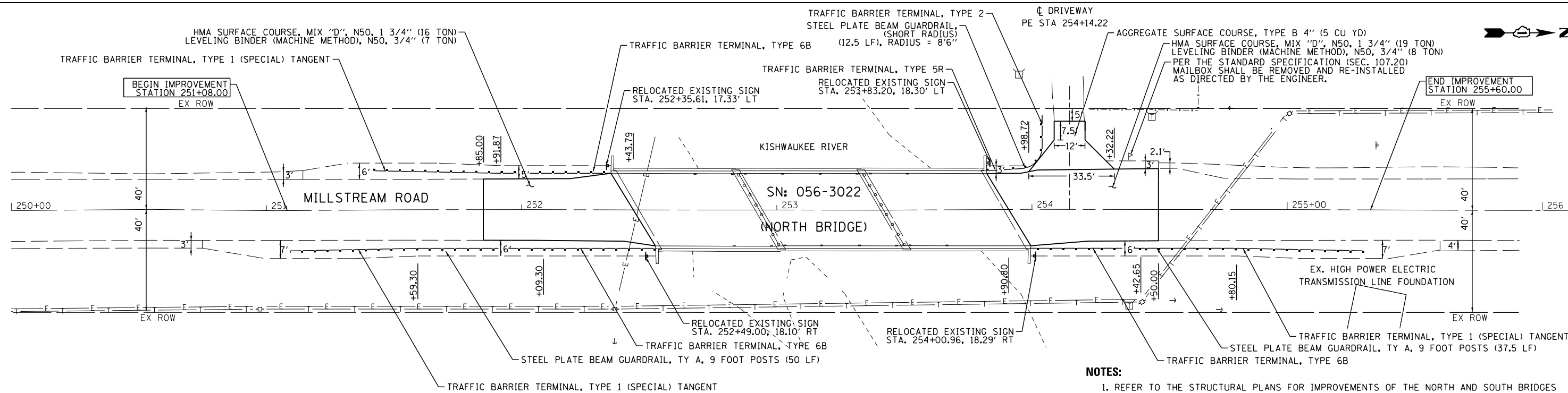
SHEET 1 OF 2 SHEETS STA. 243+50.00 TO STA. 248+16.50

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

-  HMA SURFACE REMOVAL, 2 1/2"
-  AGGREGATE DRIVEWAY REMOVAL, 4" (PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS)
-  HMA SURFACE REMOVAL - BUTT JOINT

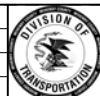


NOTES:

1. REFER TO THE STRUCTURAL PLANS FOR IMPROVEMENTS OF THE NORTH AND SOUTH BRIDGES AND FOR CRACK CONTROL TREATMENT.
2. PROPOSED PAVEMENT SHALL TRANSITION TO PROPOSED BRIDGE DECK OVERLAY. THIS SHALL BE INCLUDED IN THE CONTRACT ITEM "LEVELING BINDER (MACHINE METHOD), N50"
3. EXISTING SIGNS INDICATED IN THE PLAN SHALL BE REMOVED, STORED, AND RE-ERECTED AT THE LOCATION SHOWN. THIS SHALL BE INCIDENTAL TO THE COST OF "GUARDRAIL REMOVAL". ANY SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND MCDOT.



USER NAME = *USER*	DESIGNED - WJT	REVISED -
PLOT SCALE = *SCALE*	DRAWN - WJT	REVISED -
PLOT DATE = *DATE*	CHECKED - MTC	REVISED -
	DATE - 11/11/2016	REVISED -



**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
ROADWAY REMOVAL AND IMPROVEMENT PLAN**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 251+08.00 TO STA. 255+60.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

NOTES

1. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT) REGARDING THE PERIOD OF CLOSURE OF MILLSTREAM ROAD AND SHALL ALSO BE RESPONSIBLE FOR ALL SIGNAGE AND CHANGEABLE MESSAGE SIGNS REGARDING THIS CLOSURE. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED PRIOR TO CONSTRUCTION AT THE LOCATIONS DETERMINED BY THE ENGINEER AND PAID FOR AS "CHANGEABLE MESSAGE SIGN" (CAL MO.)
3. TEMPORARY INFORMATION SIGNS SHALL BE PLACED PRIOR TO THE CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL CONTACT MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT) AND ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) AT LEAST TWO (2) WEEKS IN ADVANCE OF THE INSTALLATION OF THE PROPOSED DETOUR.
5. ALL DETOUR SIGNS SHALL BE POST MOUNTED PER APPLICABLE SIGN MOUNTING STANDARDS.
6. SIGN LOCATION MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH THE PRIOR APPROVAL OF THE ENGINEER.
7. ALL DETOUR SIGNING SHALL BE NEW OR IN LIKE NEW CONDITION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DETOUR SIGNING AND APPURTENANCES ARE OPERATIONAL 24 HOURS A DAY, 7 DAYS A WEEK WHILE THE DETOUR IS IN EFFECT. THIS INCLUDES MAINTAINING THE VISIBILITY OF ALL CONSTRUCTION AND DETOUR SIGNING, INCLUDING CLEARING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
9. ACCESS SHALL BE MAINTAINED TO ADJACENT PROPERTIES AT ALL TIMES. THIS WORK SHALL INCIDENTAL TO "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
10. WHEN DETOUR SIGNS ARE TO BE PLACED, THE AREA NEEDS TO BE MARKED BY JULIE, FLAGS PLACED, ONCE THE DETOUR SIGN IS INSTALLED. ALL OF THE JULIE MARKING FLAGS ARE REQUIRED TO BE REMOVED AND DISPOSED OF PROPERLY.
11. WHEN THE DETOUR ROUTE SIGNS ARE INSTALLED, CARE AND CONSIDERATION ARE TO BE GIVEN TO THE INSTALLATION (TEMPORARY SIGN POST WINGS NEED TO BE INSTALLED SO AS TO BE BELOW GRADE), AND THE DETOUR SIGNS ARE TO BE INSTALLED RESPECTING THE LOCATION AND VISIBILITY OF THE EXISTING SIGNAGE SO AS NOT TO CAUSE TRAFFIC ISSUES.

SIGN LEGEND

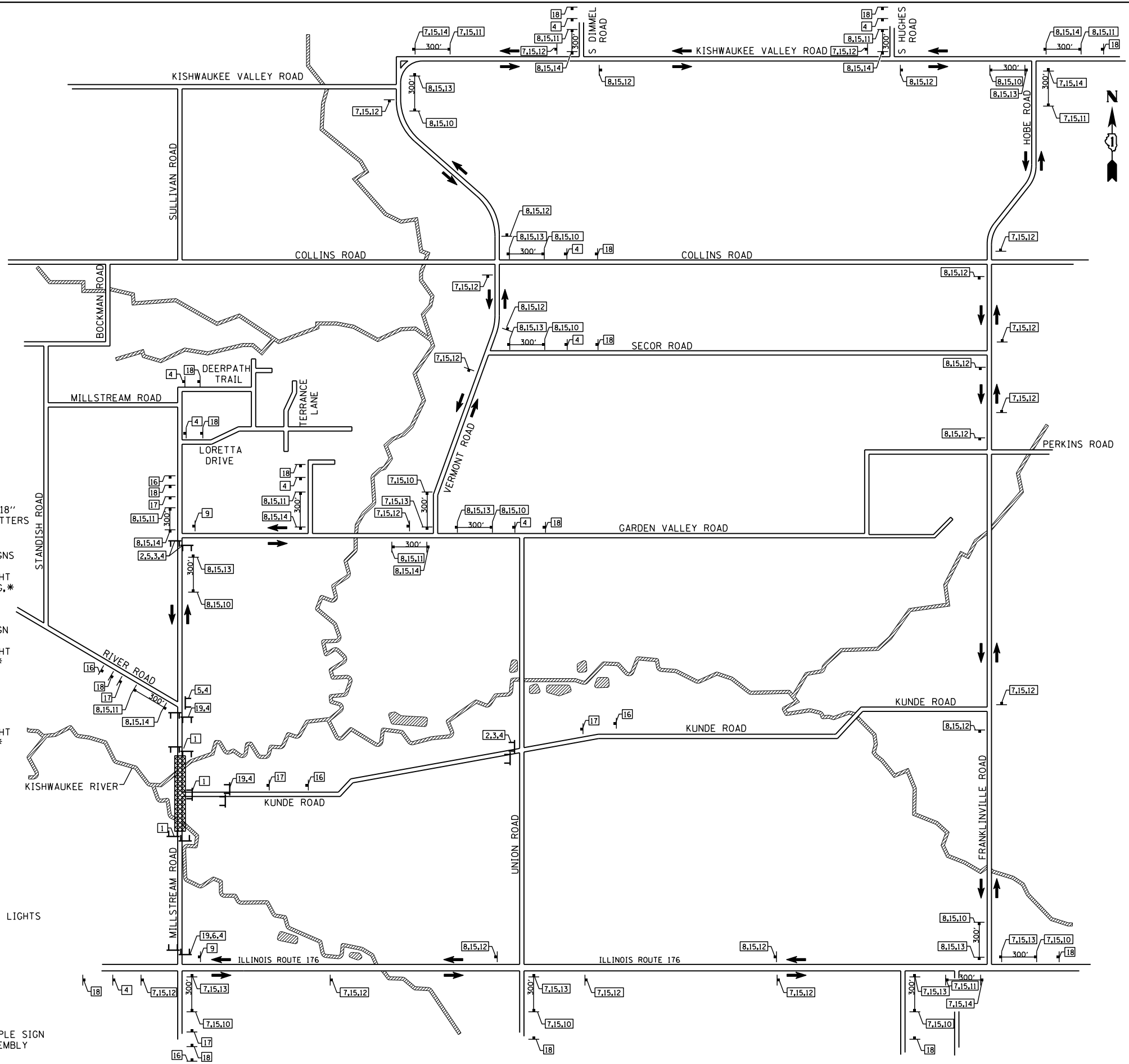
	1. R11-2 48" x 30" MOUNTED ABOVE TYPE III BARRICADE WITH 2 AMBER FLASHING LIGHTS AND ORANGE WARNING FLAGS, * 18" x 18" MIN		15. ROAD NAME SIGNS, 36" x 18" 8" UC LETTERS, 6" LC LETTERS
	2. R11-4 60" x 30" MOUNTED ABOVE TYPE III BARRICADE		16. ADVANCE ROAD CLOSED SIGNS W20-3 48" x 48" WITH AMBER FLASHING LIGHT AND ORANGE WARNING FLAG, * 18" x 18" MIN.
	3. R11-3b 60" x 30" MOUNTED ABOVE TYPE III BARRICADE		17. ADVANCE ROAD CLOSED SIGN W20-3 48" x 48" WITH AMBER FLASHING LIGHT & ORANGE WARNING FLAG, * 18" x 18" MIN.
	4. R11-4 60" x 30"		18. ADVANCE DETOUR SIGN W20-2 48" x 48" WITH AMBER FLASHING LIGHT & ORANGE WARNING FLAG, * 18" x 18" MIN.
	5. M4-10L 48" x 18" TYPICAL MOUNTED ABOVE TOP OF TYPE III BARRICADE		19. R11-2 48" x 30" MOUNTED ABOVE TYPE III BARRICADE
	6. M4-10R 48" x 18" TYPICAL MOUNTED ABOVE TOP OF TYPE III BARRICADE		
	7. M3-1(O) 24" x 12"		
	8. M3-3(O) 24" x 12"		
	9. M4-8a 24"x18"		
	10. M4-9R 30" x 24"		
	11. M4-9L 30" x 24"		
	12. M4-9 30" x 24"		
	13. M4-9 30" x 24"		

NOTE: * INDICATES FLAG(S) NOT REQUIRED

LEGEND

DIRECTION OF TRAVEL
 DETOUR SIGN ASSEMBLY
 PROJECT AREA
 BODIES OF WATER

NORTH
 SAMPLE SIGN ASSEMBLY



USER NAME = *USER*	DESIGNED - WJT	REVISED -
PLOT SCALE = *SCALE*	DRAWN - WJT	REVISED -
PLOT DATE = *DATE*	CHECKED - MTC	REVISED -
	DATE - 11/11/2016	REVISED -



**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

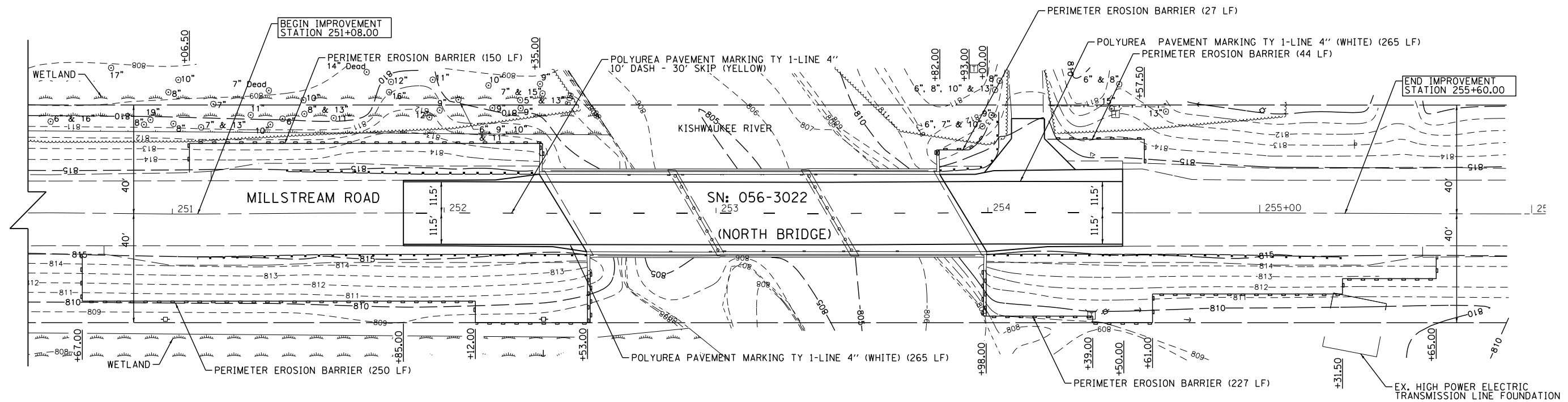
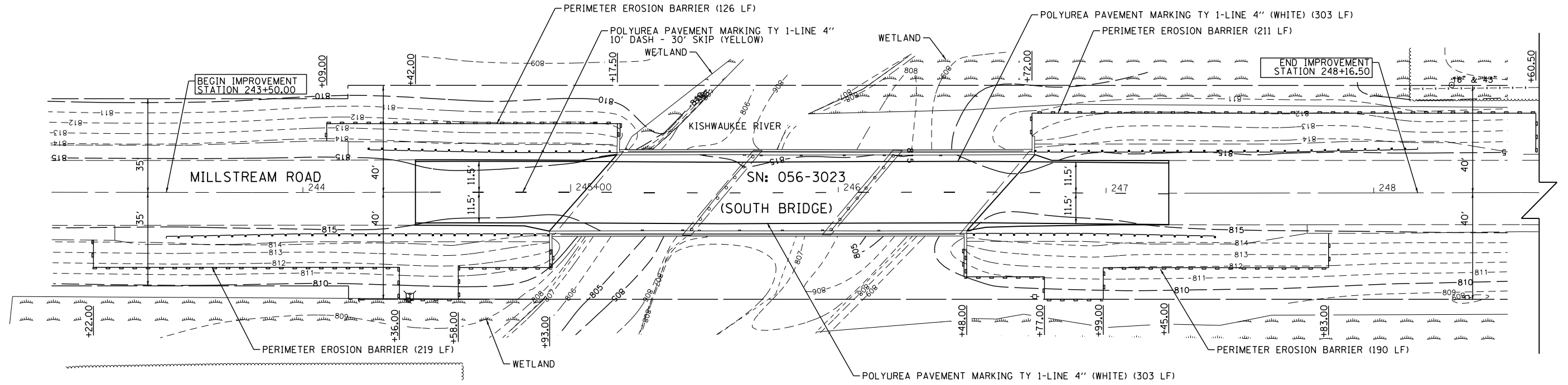
**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
DETOUR PLAN**

SCALE: 1"=500' SHEET 1 OF 1 SHEETS STA. NA TO STA. NA

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SOIL EROSION AND SEDIMENT CONTROL LEGEND:

PERIMETER EROSION BARRIER



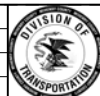
NOTES:
 1. DOUBLE ROW PERIMETER EROSION BARRIER SHALL BE PLACED ADJACENT/PERPENDICULAR TO THE RIVER.



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED - WJT
 DRAWN - WJT
 CHECKED - MTC
 DATE - 11/11/2016

REVISED -
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 REVISED -
 REVISED -

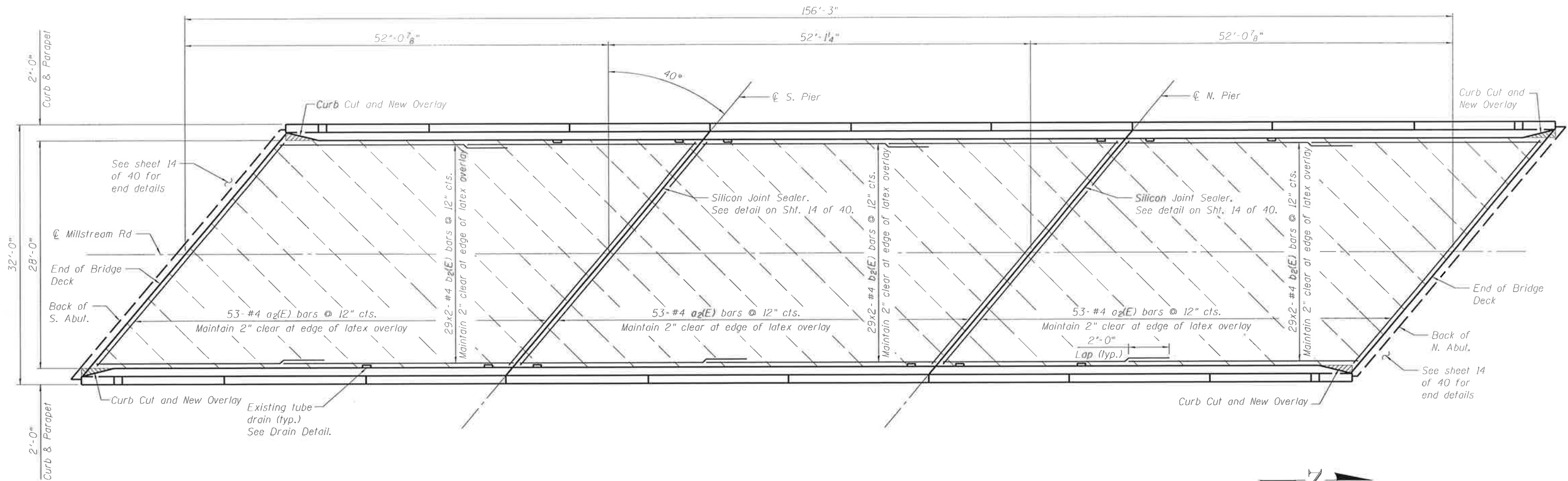


**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

**MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
 PAVEMENT MARKING, EROSION CONTROL, AND LANDSCAPING PLAN**
 - SCALE: 1"=20'

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SHEET 1 OF 1 SHEETS STA. 243+50.00 TO STA. 255+60.00

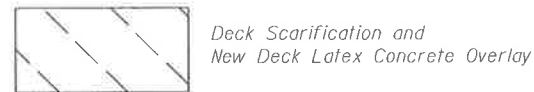


DECK REPAIR PLAN



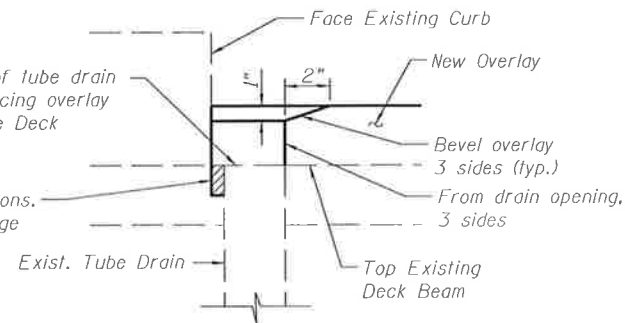
Note:
 For the Precast Prestressed Concrete Deck
 Beam repairs see sheet 16 of 40
 For curb cut details see sheet 15 of 40

LEGEND



Clean and seal all around top of tube drain
 with silicone sealant before placing overlay
 (typ.). Cost included with Bridge Deck
 Latex Concrete Overlay 3 3/4".

Void ± 1 3/4" deep ± 3/4" wide at various drain locations.
 Clean and fill with grout. Cost included with Bridge
 Deck Latex Concrete Overlay 3 3/4".



DRAIN DETAIL

TOTAL BILL OF MATERIAL

(SN 056-3023)

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	0.5
Bridge Deck Grooving	Sq. Yd.	467
Furnishing and Erecting Structural Steel	Pound	60
Reinforcement Bars, Epoxy Coated	Pound	6,970
Polymer Modified Portland Cement Mortar	Sq. Ft.	26
Structural Repair of Concrete (Depth Equal of Less Than 5 inches)	Sq. Ft.	314
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	22
Silicone Joint Sealer, 1.5"	Foot	83
Polymer Concrete	Cu. Ft.	11
Bridge Deck Scarification 2 1/4"	Sq. Yd.	487
Bridge Deck Latex Concrete Overlay 3 3/4"	Sq. Yd.	487
Strip Reflective Crack Control Treatment	Foot	74
Protective Coat	Sq. Yd.	487
Temporary Shoring & Cribbing	Each	1
Anchor Bolts 1"	Each	4
Concrete Structures	Cu. Yd.	1.6
Keyway Repairs	Foot	305

Reinforcement bars designated (E) shall be epoxy coated.



DATE SIGNED: 12-20-2016
 EXP. DATE: 11-30-2018

FILE NAME = #FILEL8

Bollinger, Lach & Associates, Inc.
 ITASCA, ILLINOIS

USER NAME =	DESIGNED = HB	REVISED =
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PLLOT DATE = \$DATE\$	DRAWN = GM	REVISED =
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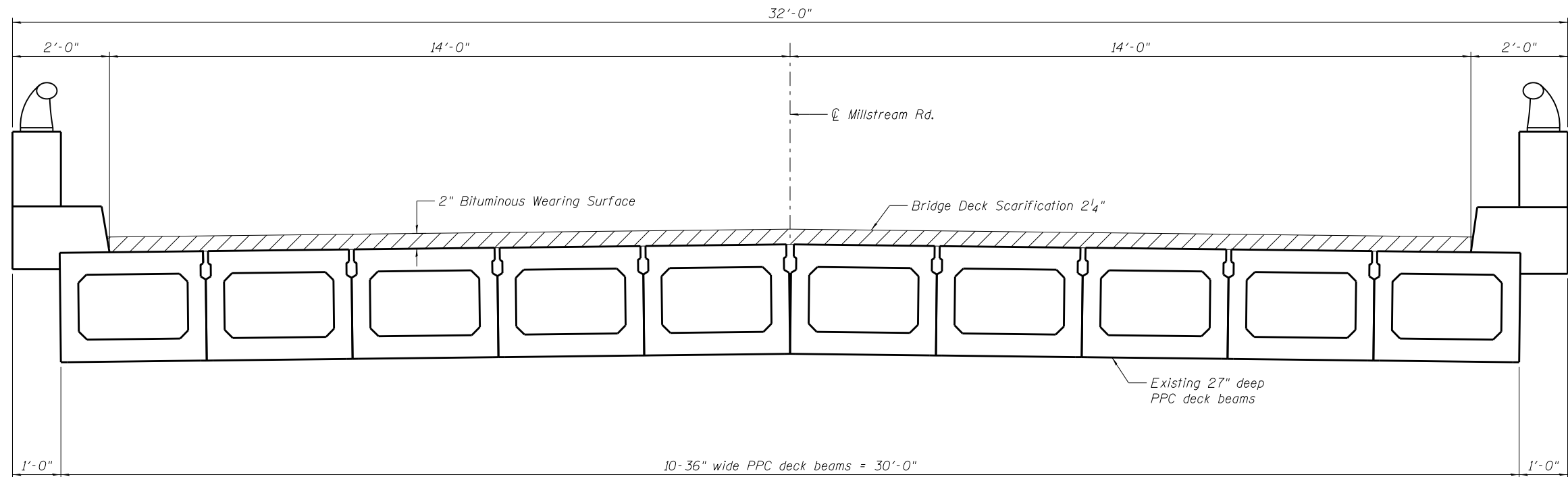


**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

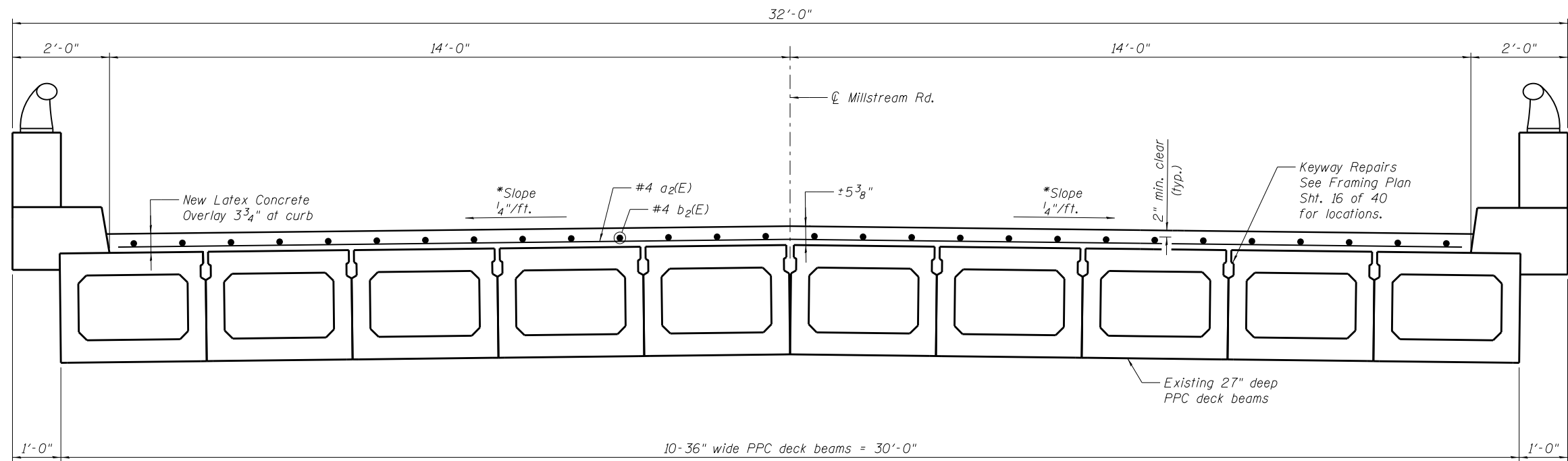
**DECK REPAIR PLAN
 MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
 S.N. 056-3023 (SOUTH BRIDGE)**

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



CROSS SECTION - SHOWING REMOVAL
(Looking North)



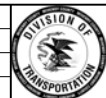
CROSS SECTION - SHOWING NEW OVERLAY
(Looking North)

* Existing beam slope 1.1%

FILE NAME = \$FILES\$



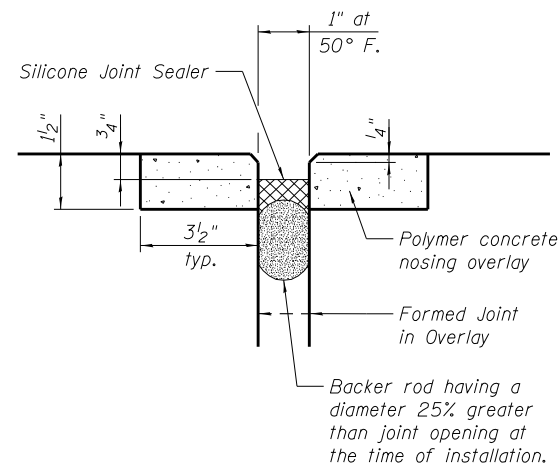
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PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -



**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

DECK REPAIR SECTIONS	
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER	
S.N. 056-3023 (SOUTH BRIDGE)	
SCALE:	SHEET 2 OF 6 SHEETS STA. TO STA.

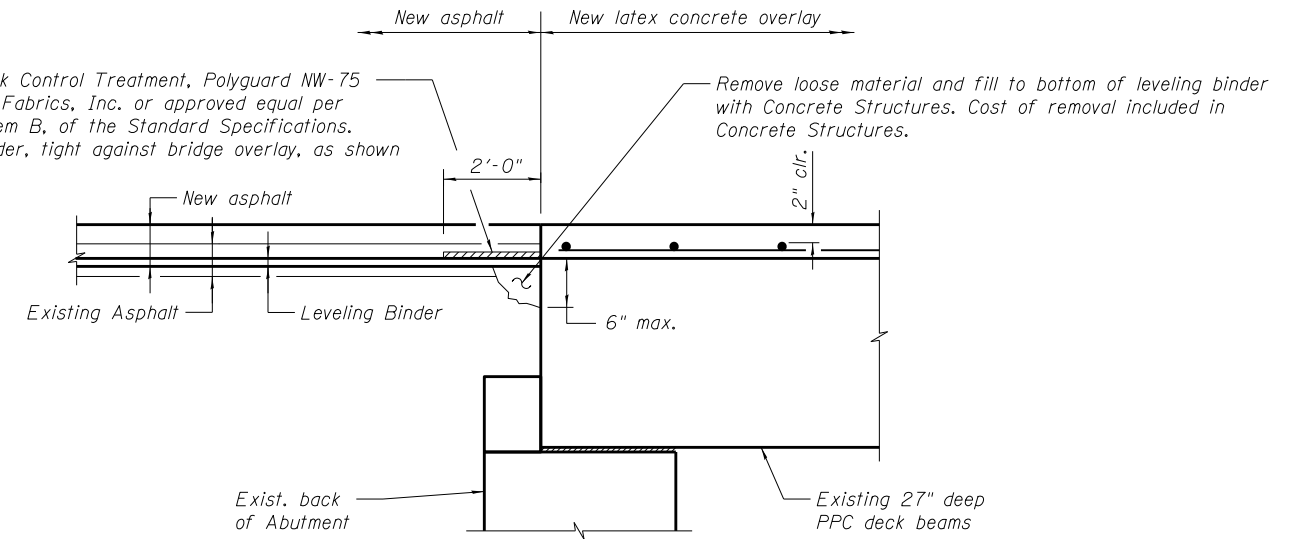
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



Place Silicone Joint Sealer and backer rod (where possible) up front face and top of curb.

SILICONE JOINT SEALER DETAIL

Strip Reflective Crack Control Treatment, Polyguard NW-75 as supplied by Road Fabrics, Inc. or approved equal per Article 443.07, System B, of the Standard Specifications. Place on leveling binder, tight against bridge overlay, as shown



END DETAIL

BILL OF MATERIAL
(Overlay Items)

Bar	No.	Size	Length	Shape
a ₂ (E)	159	#4	36'-1"	————
b ₂ (E)	174	#4	26'-11"	————
Reinforcement Bars, Epoxy Coated			Pound	6,970
Protective Coat			Sq. Yd.	487
Bridge Deck Grooving			Sq. Yd.	467
Silicone Joint Sealer, 1.5"			Foot	83
Polymer Concrete			Cu. Ft.	11
Strip Reflective Crack Control Treatment			Foot	74
Bridge Deck Scarification 2 1/4"			Sq. Yd.	487
Bridge Deck Latex Concrete Overlay 3 3/4"			Sq. Yd.	487
Concrete Structures			Cu. Yd.	1.6

FILE NAME = \$FILEL\$



USER NAME =	DESIGNED - HB	REVISED -
	CHECKED - JJI	REVISED -
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PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -

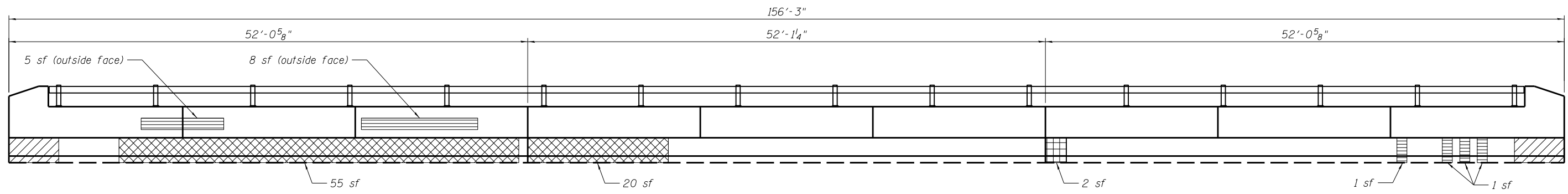


MCHENRY COUNTY
DIVISION OF TRANSPORTATION

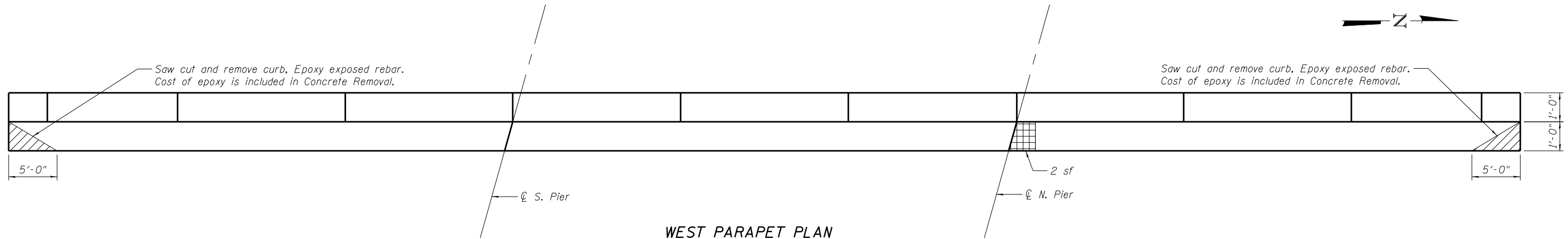
DECK REPAIR DETAILS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3023 (SOUTH BRIDGE)

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

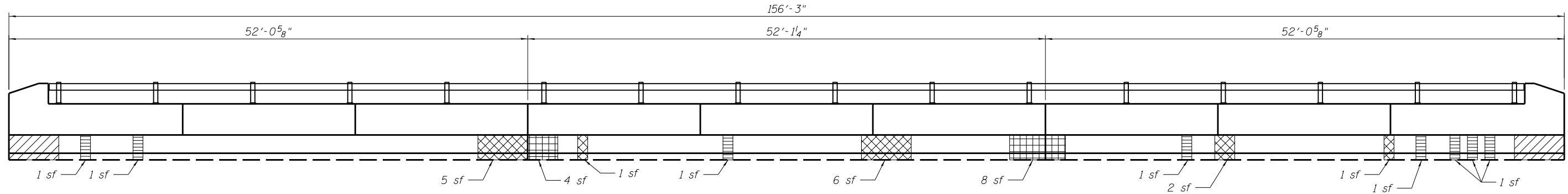
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



WEST PARAPET INSIDE ELEVATION

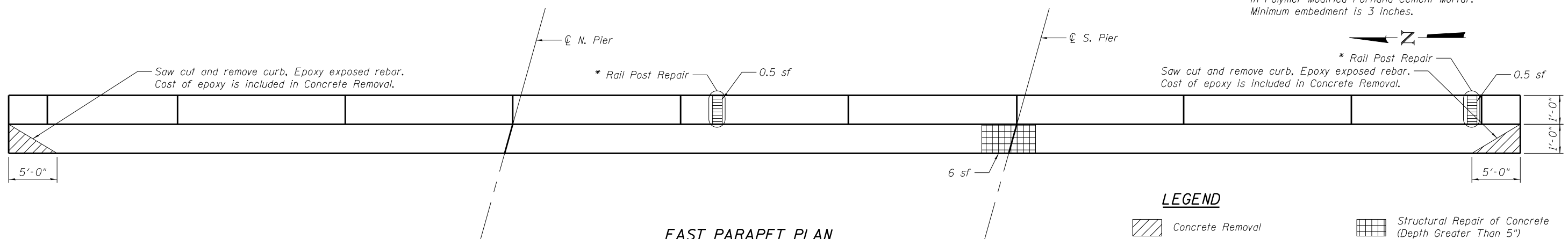


WEST PARAPET PLAN



EAST PARAPET INSIDE ELEVATION

* Remove existing anchor bolts. Install 4-5/8" diameter stainless steel adhesive anchor bolts, nuts and washers per post. Cost is included in Polymer Modified Portland Cement Mortar. Minimum embedment is 3 inches.



EAST PARAPET PLAN

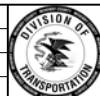
LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth Greater Than 5")
- Structural Repair of Concrete (Depth Equal or Less than 5")
- Polymer Modified Portland Cement Mortar

FILE NAME = \$FILEL\$



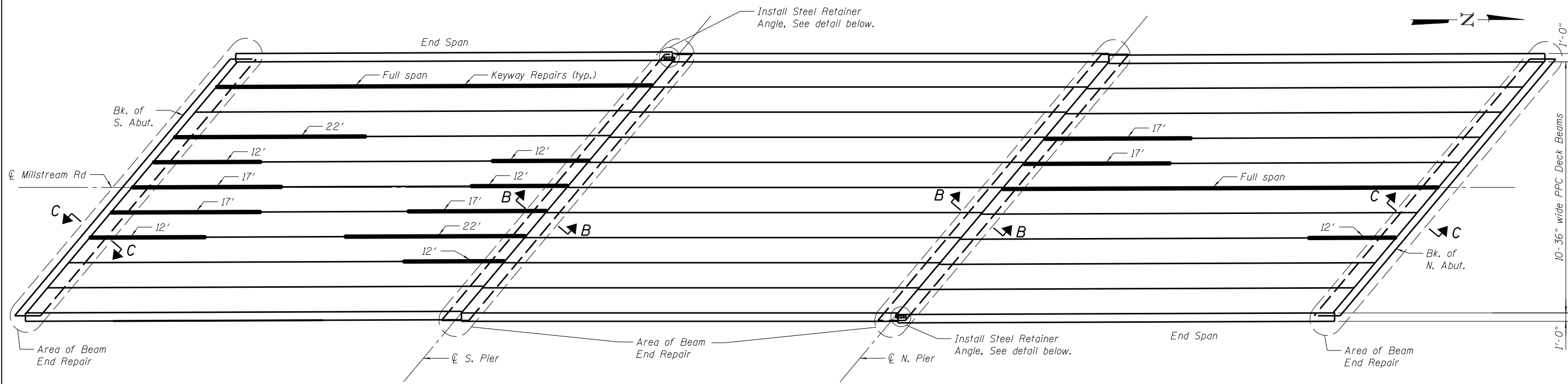
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PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -



**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

PARAPET REPAIR DETAILS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3023 (SOUTH BRIDGE)
 SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

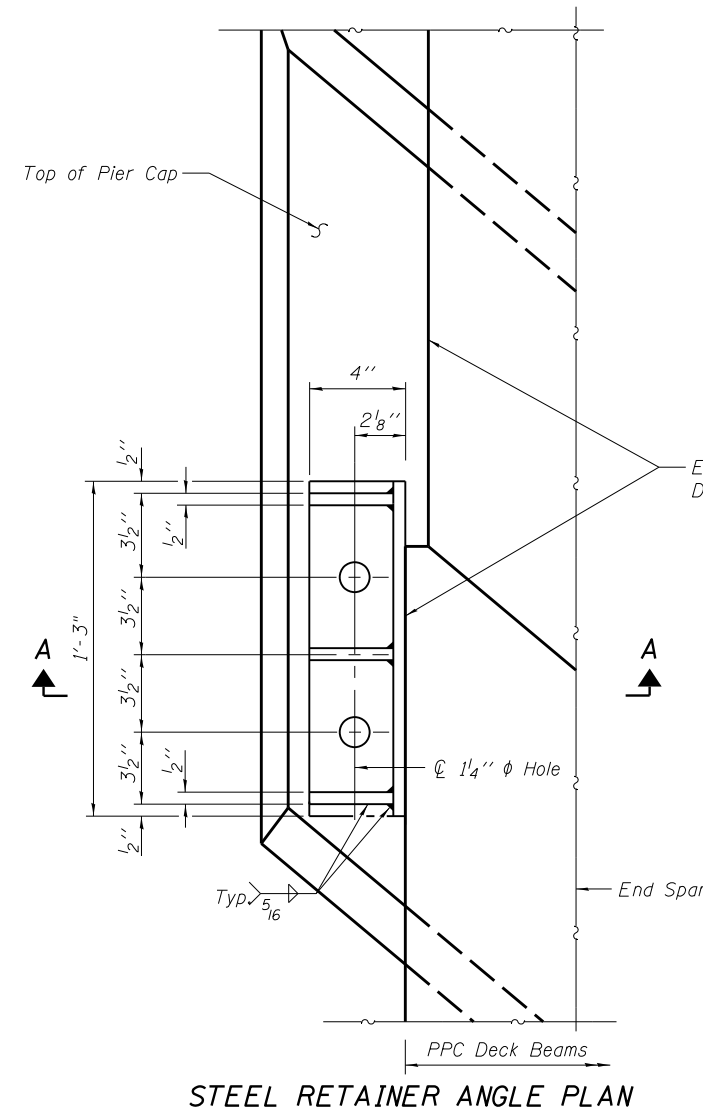
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	15
CONTRACT NO.			ILLINOIS FED. AID PROJECT	



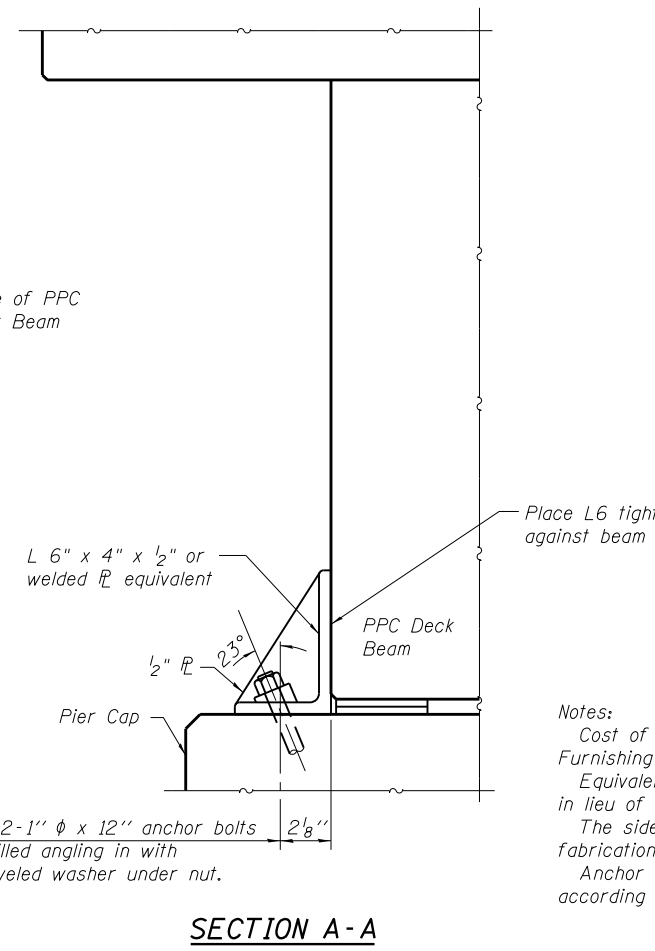
DECK BEAM FRAMING PLAN

LEGEND

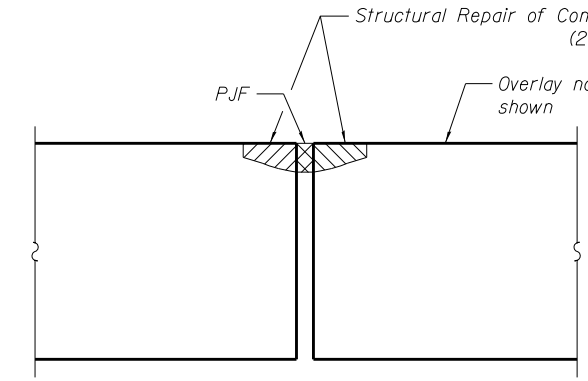
— Keyway Repairs



STEEL RETAINER ANGLE PLAN

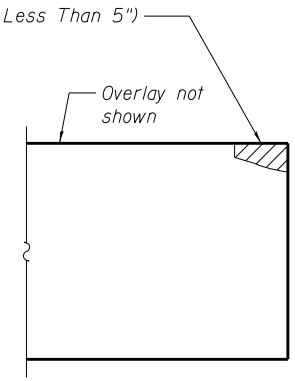


SECTION A-A



SECTION B-B

(Beam End Repair)
Location and limits shall be verified by Engineer in the field



SECTION C-C

(Beam End Repair)
Location and limits shall be verified by Engineer in the field

BILL OF MATERIAL

(Beam and Parapet Items)

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	0.5
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	22
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	310
Polymer Modified Portland Cement Mortar	Sq. Ft.	26
Furnishing and Erecting Structural Steel	Pound	60
Anchor Bolt 1"	Each	4
Keyway Repairs	Foot	305

Notes:
 Cost of retainer and accessories are included with Furnishing and Erecting Structural Steel.
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
 The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
 Anchor bolts, nuts and beveled washers shall be galvanized according to AASHTO M 232.

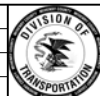
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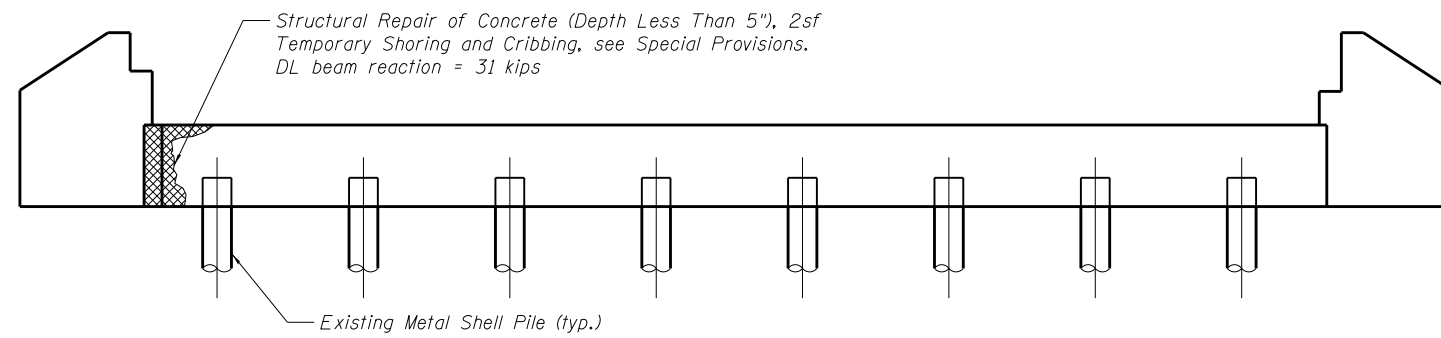
**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

**DECK BEAM REPAIR DETAILS
 MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
 S.N. 056-3023 (SOUTH BRIDGE)**

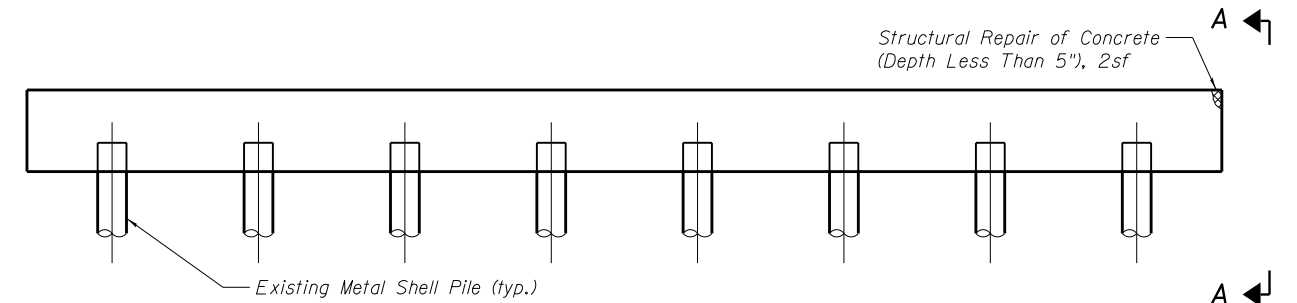
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	16

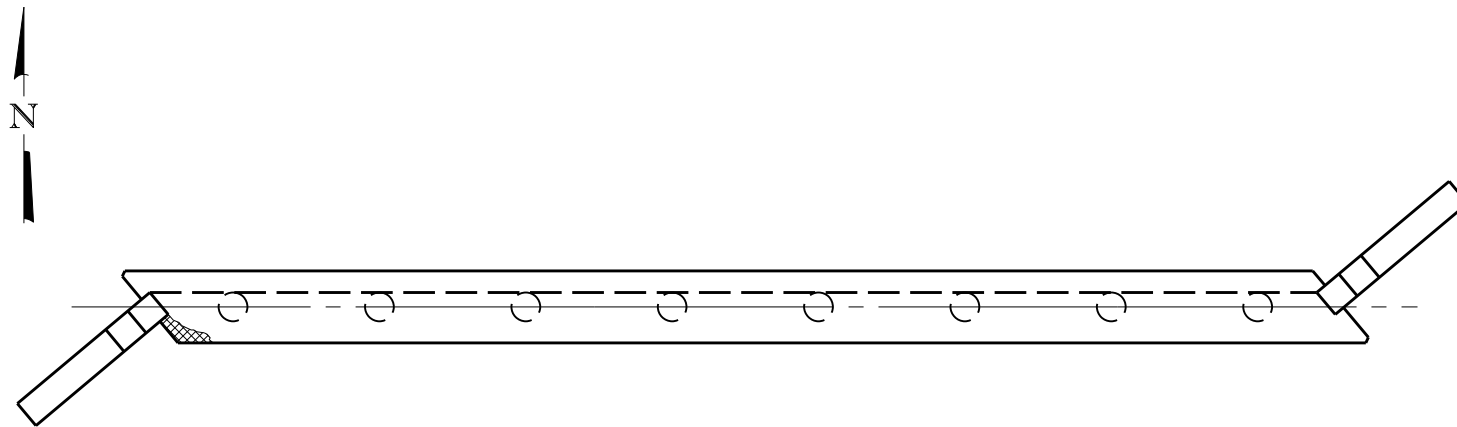
CONTRACT NO. ILLINOIS FED. AID PROJECT



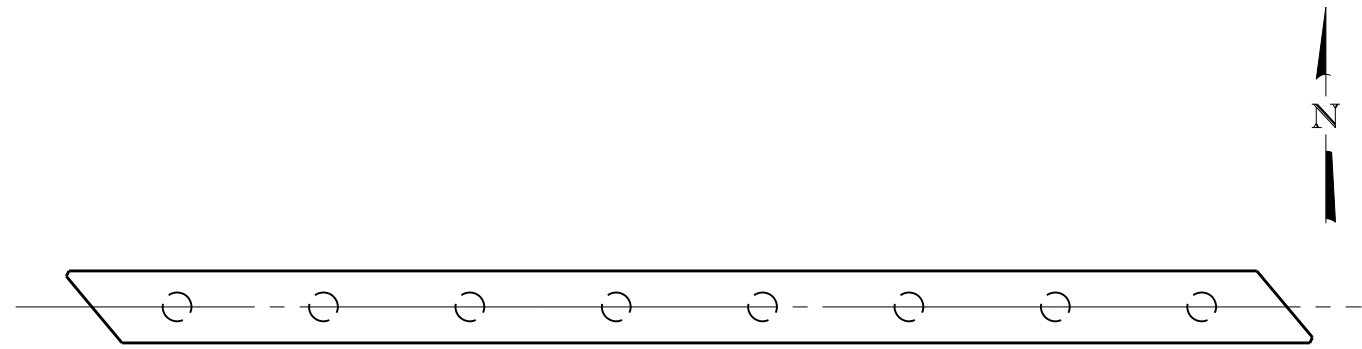
NORTH ABUTMENT ELEVATION
(Looking North)



NORTH PIER ELEVATION
(Looking North)



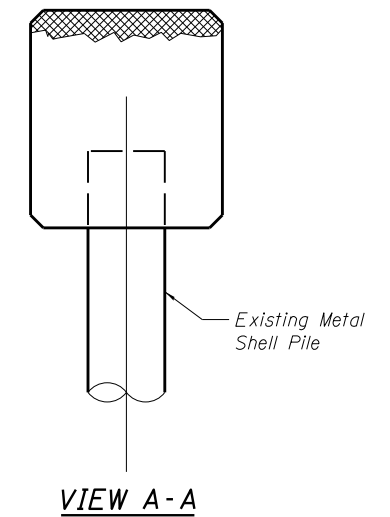
NORTH ABUTMENT PLAN



NORTH PIER PLAN

BILL OF MATERIAL

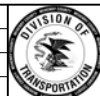
Item	Unit	Total
Structural Repair of Concrete (Depth Less Than 5")	Sq. Ft.	4
Temporary Shoring and Cribbing	Each	1



FILE NAME = \$FILES\$



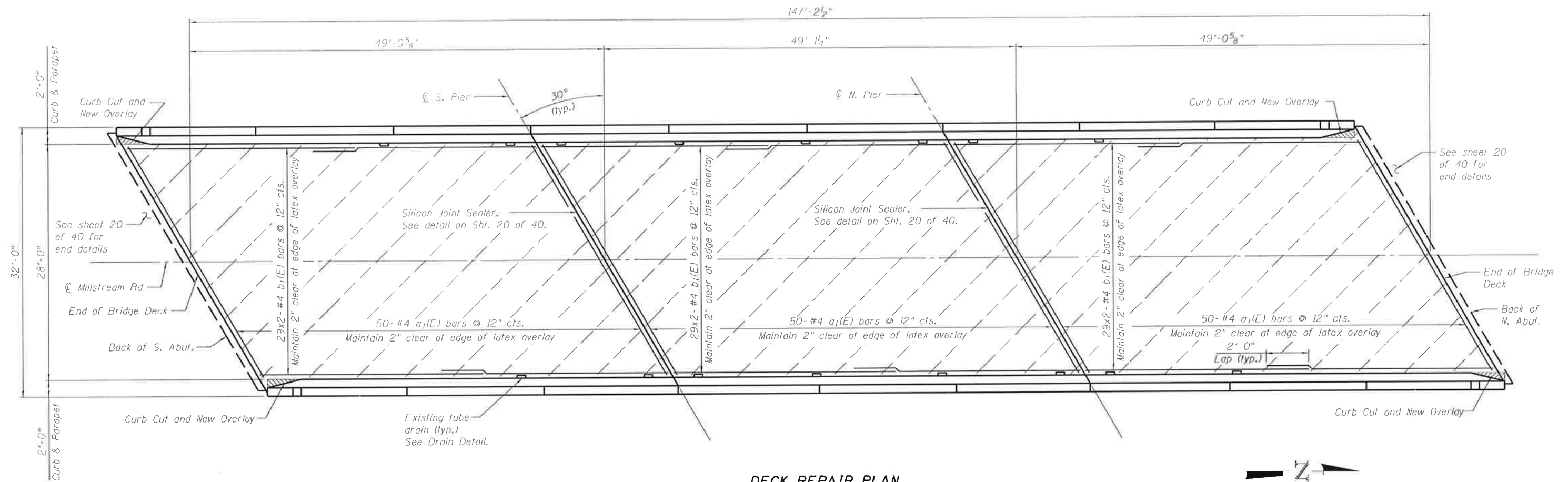
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CHECKED - JJI	DRAWN - GM	REVISED -
PLOT SCALE =	CHECKED - JJI	REVISED -
PLOT DATE = \$DATE\$		



**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

SUBSTRUCTURE REPAIR DETAILS	
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER	
S.N. 056-3023 (SOUTH BRIDGE)	
SCALE:	SHEET 6 OF 6 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	17
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

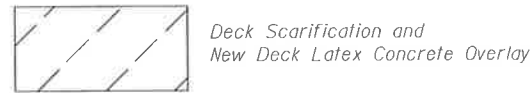


DECK REPAIR PLAN



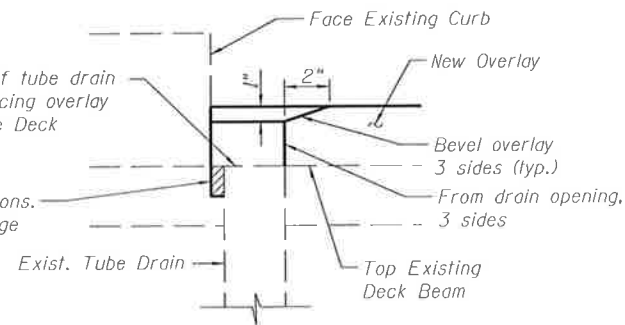
Note:
 For the Precast Prestressed Concrete Deck
 Beam repairs see sheet 22 of 40.
 For curb cut details see sheet 21 of 40.

LEGEND



Clean and seal all around top of tube drain
 with silicone sealant before placing overlay
 (typ.). Cost included with Bridge Deck
 Latex Concrete Overlay 3 3/4".

Void ± 1 3/4" deep ± 3/4" wide at various drain locations.
 Clean and fill with grout. Cost included with Bridge
 Deck Latex Concrete Overlay 3 3/4".



DRAIN DETAIL

TOTAL BILL OF MATERIAL

(SN 056-3022)

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	0.5
Bridge Deck Grooving	Sq. Yd.	439
Furnishing and Erecting Structural Steel	Pound	60
Reinforcement Bars, Epoxy Coated	Pound	6,150
Polymer Modified Portland Cement Mortar	Sq. Ft.	2
Structural Repair of Concrete (Depth Equal of Less than 5 inches)	Sq. Ft.	353
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	70
Silicone Joint Sealer, 1.5"	Foot	74
Polymer Concrete	Cu. Ft.	10
Bridge Deck Scarification 2 1/4"	Sq. Yd.	458
Bridge Deck Latex Concrete Overlay 3 3/4"	Sq. Yd.	458
Strip Reflective Crack Control Treatment	Foot	65
Protective Coat	Sq. Yd.	458
Anchor Bolts 1"	Each	4
Concrete Structures	Cu. Yd.	1.5
Keyway Repairs	Foot	30

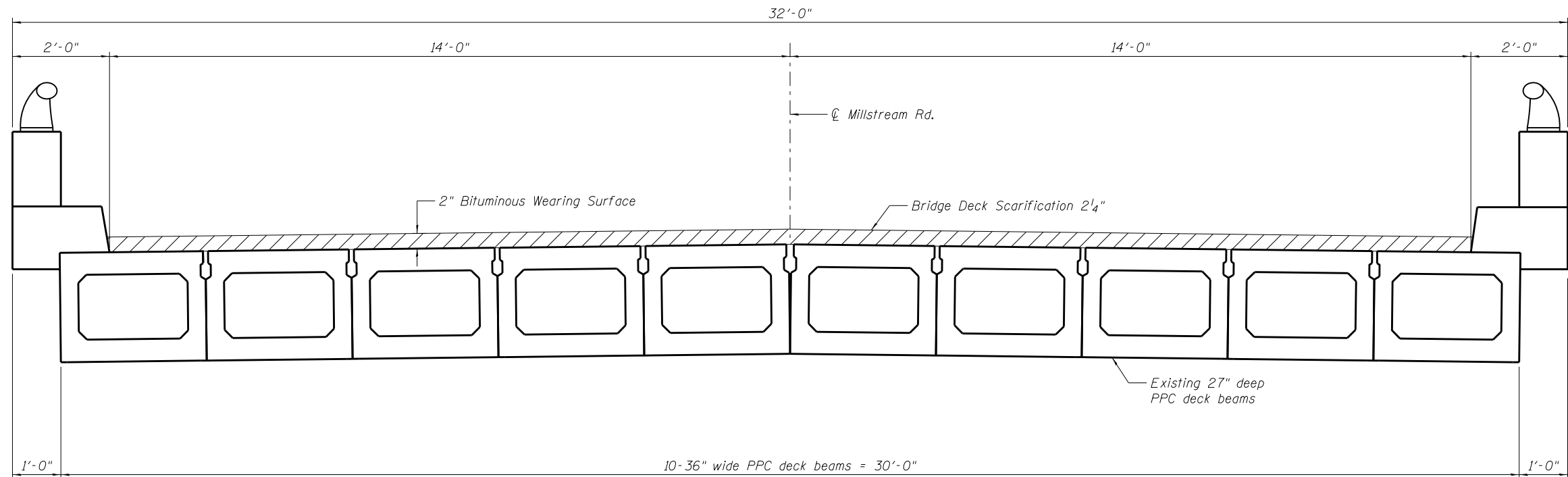
Reinforcement bars designated (E) shall be epoxy coated.



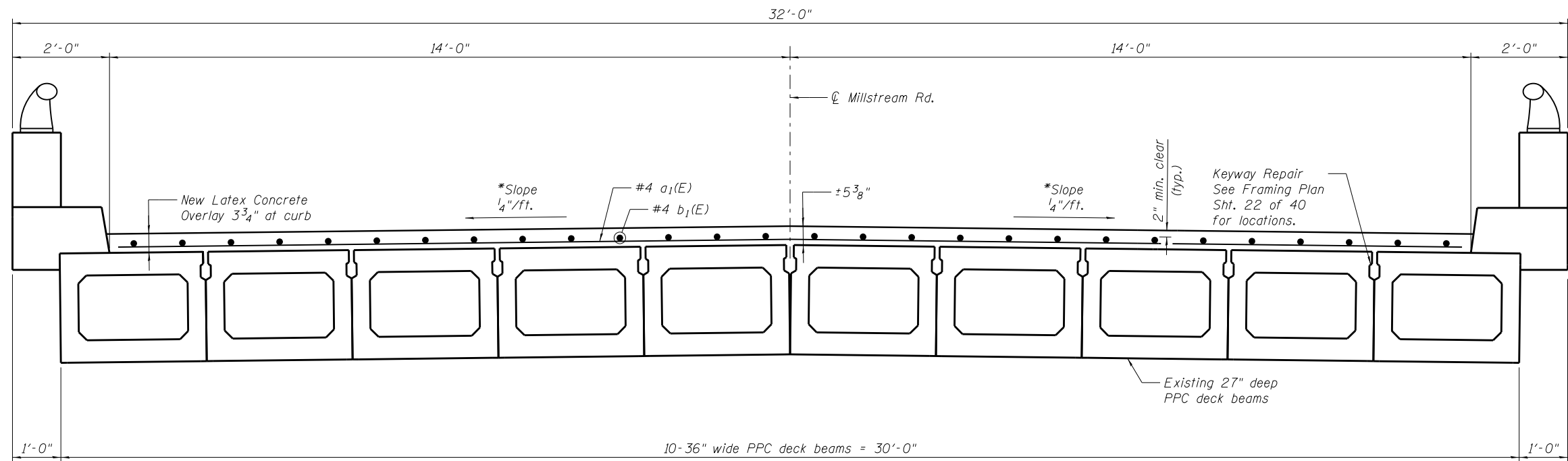
DATE SIGNED: 12-20-2016
 EXP. DATE: 11-30-2018

FILE NAME: 056-3022-01-01.dwg

<p>Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS</p>	USER NAME * DESIGNED - HB CHECKED - JJI DRAWN - GM PLOT DATE * #DATE\$	REVISED - REVISED - REVISED - REVISED -	<p>MCHENRY COUNTY DIVISION OF TRANSPORTATION</p>	<p>DECK REPAIR PLAN MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER S.N. 056-3022 (NORTH BRIDGE)</p>	RTE. CH T64 SECTION 16-00457-00-BR COUNTY MCHENRY ILLINOIS FED. AID PROJECT	TOTAL SHEETS 40 SHEET NO. 18 CONTRACT NO.
	SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.					



CROSS SECTION - SHOWING REMOVAL
(Looking North)



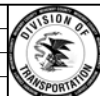
CROSS SECTION - SHOWING NEW OVERLAY
(Looking North)

* Existing beam slope 1.1%

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	CHECKED - JJI	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -

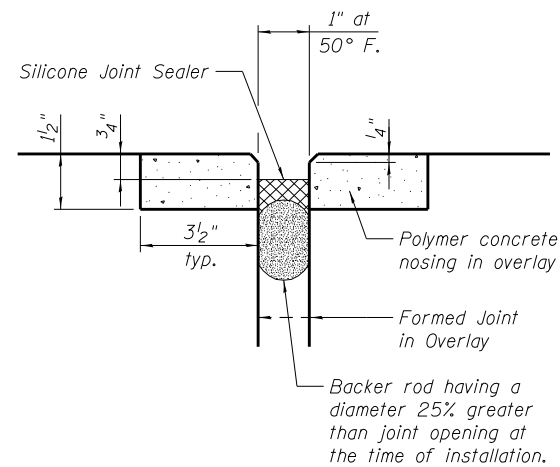


**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**DECK REPAIR SECTIONS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3022 (NORTH BRIDGE)**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

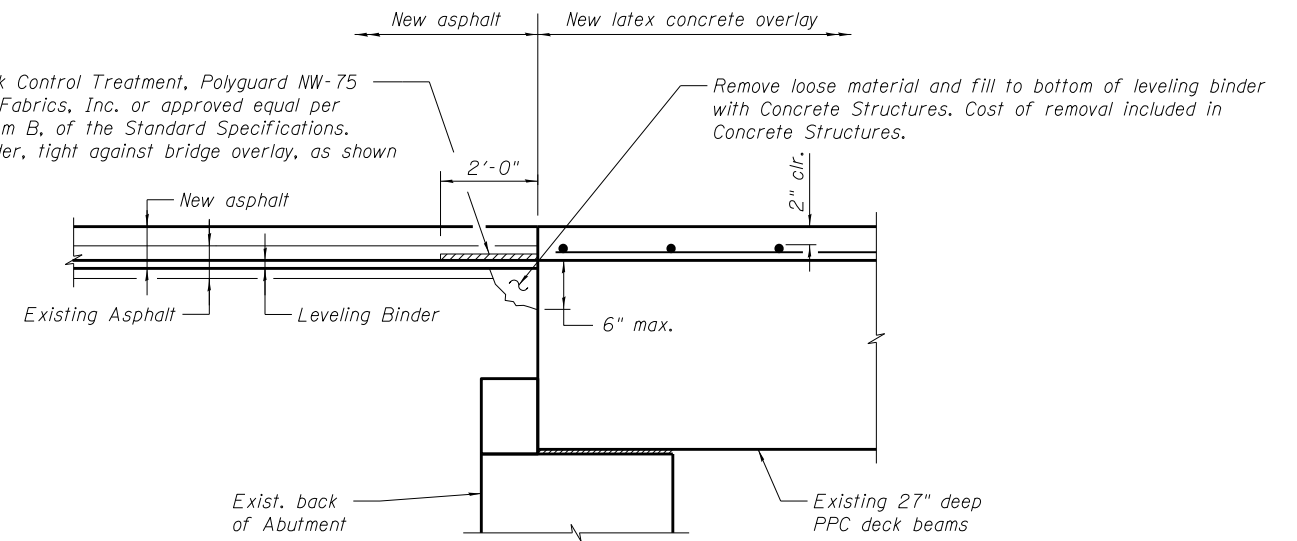
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



Place Silicone Joint Sealer and backer rod (where possible) up front face and top of curb.

SILICONE JOINT SEALER DETAIL

Strip Reflective Crack Control Treatment, Polyguard NW-75 as supplied by Road Fabrics, Inc. or approved equal per Article 443.07, System B, of the Standard Specifications. Place on leveling binder, tight against bridge overlay, as shown



END DETAIL

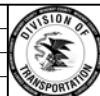
BILL OF MATERIAL
(Overlay Items)

Bar	No.	Size	Length	Shape
a ₁ (E)	150	#4	31'-11"	—
b ₁ (E)	174	#4	25'-4"	—
Reinforcement Bars, Epoxy Coated			Pound	6,150
Protective Coat			Sq. Yd.	458
Bridge Deck Grooving			Sq. Yd.	439
Silicone Joint Sealer, 1.5"			Foot	74
Polymer Concrete			Cu. Ft.	10
Strip Reflective Crack Control Treatment			Foot	65
Bridge Deck Scarification 2 1/4"			Sq. Yd.	458
Bridge Deck Latex Concrete Overlay 3 3/4"			Sq. Yd.	458
Concrete Structures			Cu. Yd.	1.5

FILE NAME = \$FILEL\$



USER NAME =	DESIGNED - HB	REVISED -
	CHECKED - JJI	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -

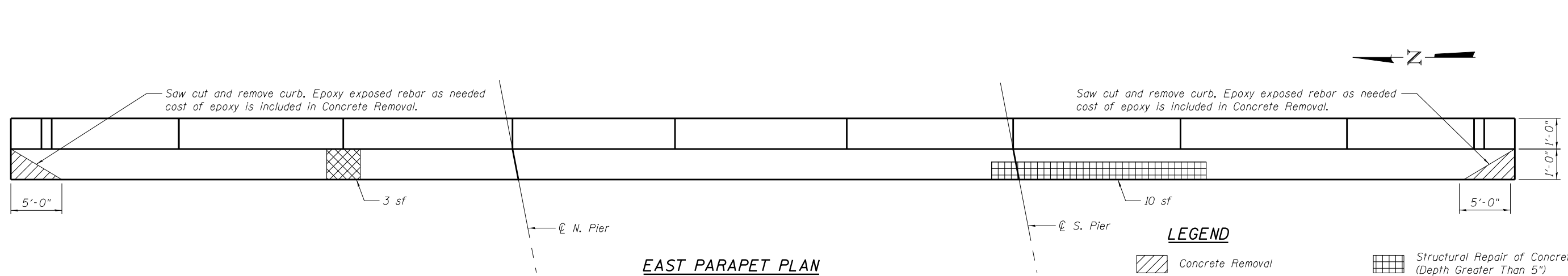
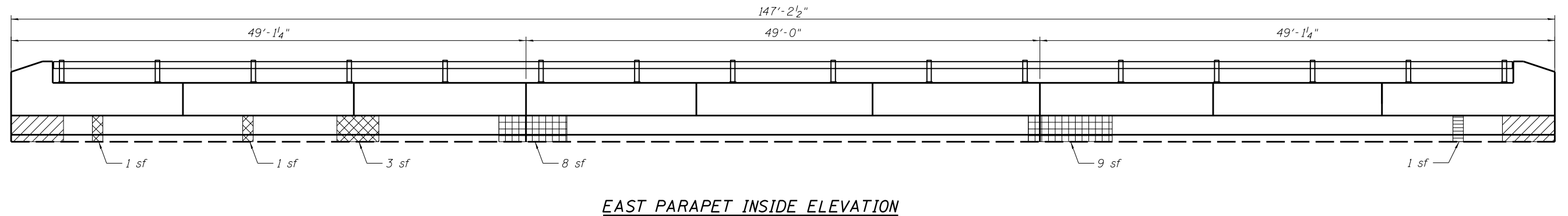
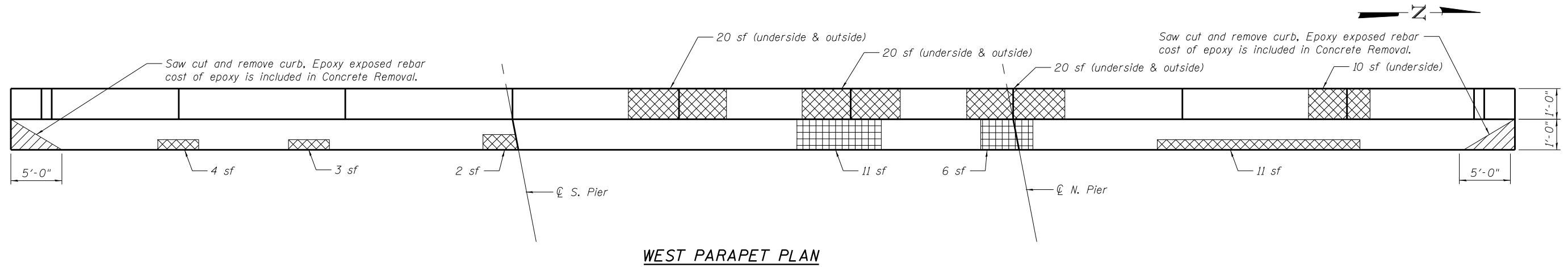
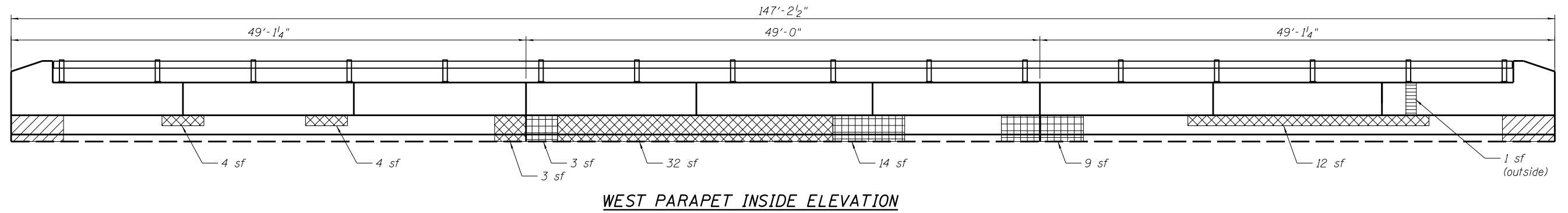


MCHENRY COUNTY
DIVISION OF TRANSPORTATION

DECK REPAIR DETAILS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3022 (NORTH BRIDGE)

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	20
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



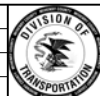
LEGEND

	Concrete Removal		Structural Repair of Concrete (Depth Greater Than 5")
	Structural Repair of Concrete (Depth Equal or Less than 5")		Polymer Modified Portland Cement Mortar

FILE NAME = \$FILES\$



USER NAME =	DESIGNED - HB	REVISED -
	CHECKED - JJI	REVISED -
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PLOT DATE = \$DATE\$	CHECKED - JJI	REVISED -

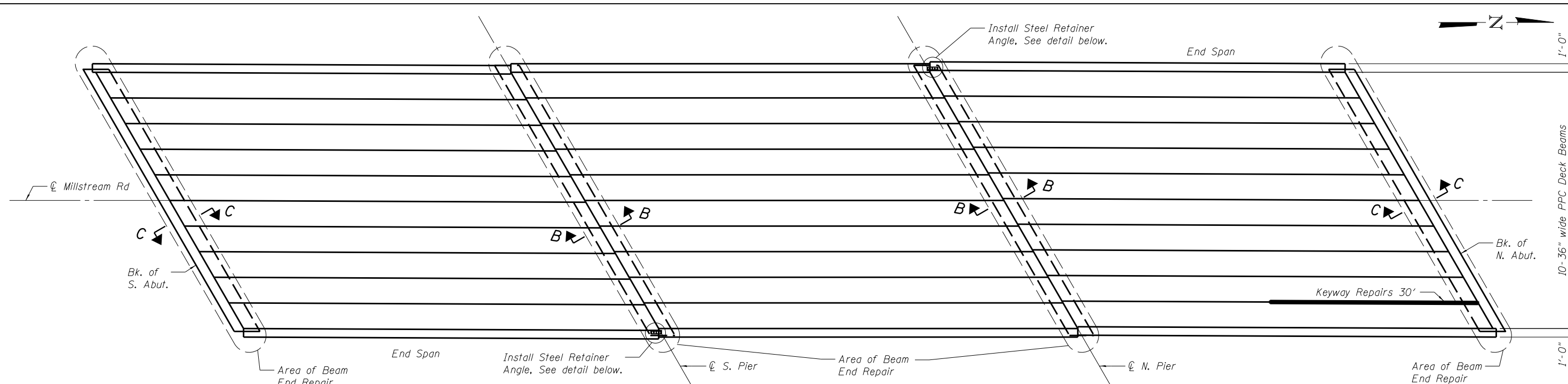


**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**PARAPET REPAIR DETAILS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3022 (NORTH BRIDGE)**

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

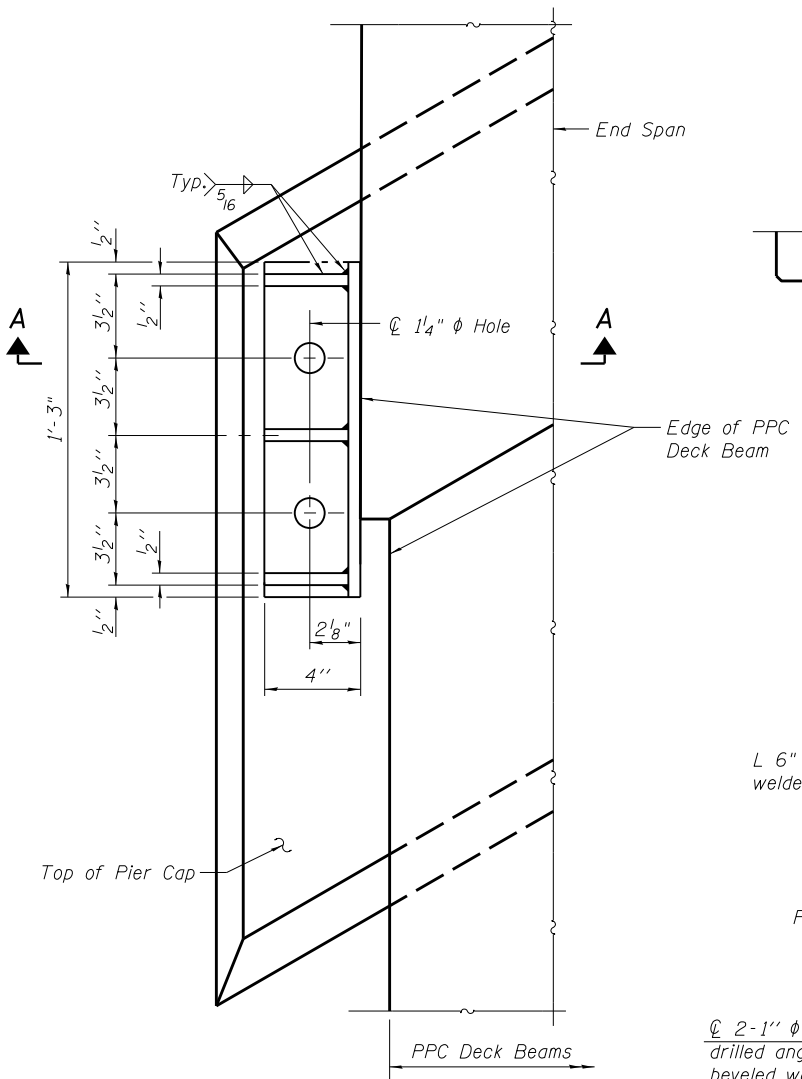
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	21
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



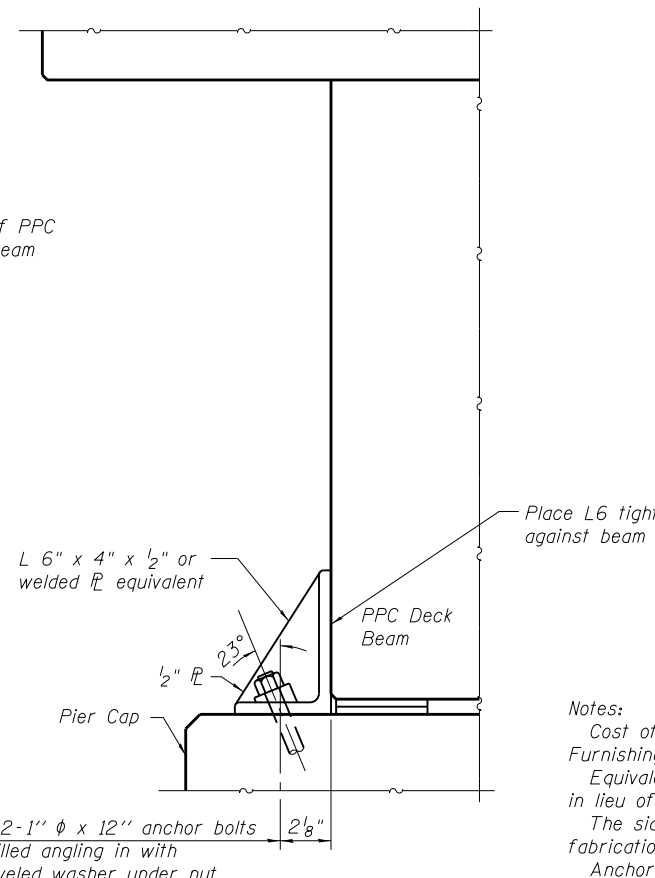
DECK BEAM FRAMING PLAN

LEGEND

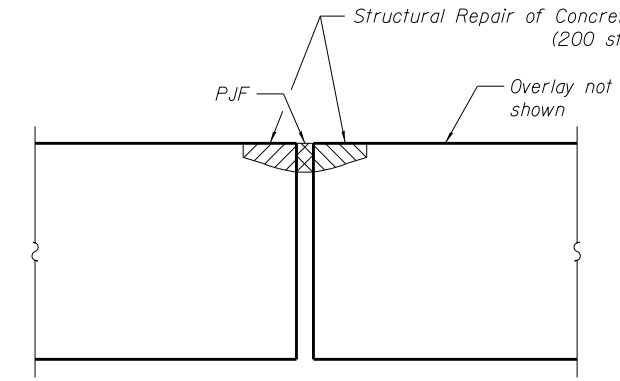
— Keyway Repairs



STEEL RETAINER ANGLE PLAN

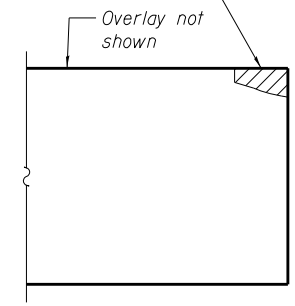


SECTION A-A



SECTION B-B

(Beam End Repair)
Location and limits shall be verified by Engineer in the field



SECTION C-C

(Beam End Repair)
Location and limits shall be verified by Engineer in the field

Notes:
Cost of retainer and accessories are included with Furnishing and Erecting Structural Steel.
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385.
Anchor bolts, nuts and beveled washers shall be galvanized according to AASHTO M 232.

BILL OF MATERIAL

(Beam and Parapet Items)

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	0.5
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	70
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	353
Polymer Modified Portland Cement Mortar	Sq. Ft.	2
Furnishing and Erecting Structural Steel	Pound	60
Anchor Bolt 1"	Each	4
Keyway Repairs	Foot	30

FILE NAME = \$FILES\$



USER NAME =
DESIGNED - HB
CHECKED - JJI
DRAWN - GM
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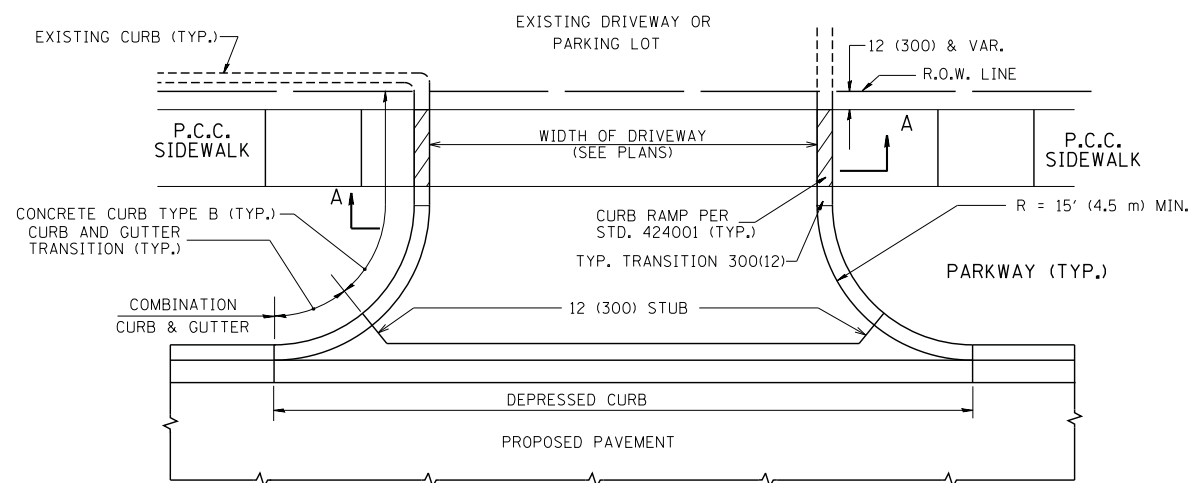
**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**DECK BEAM REPAIR DETAILS
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
S.N. 056-3022 (NORTH BRIDGE)**

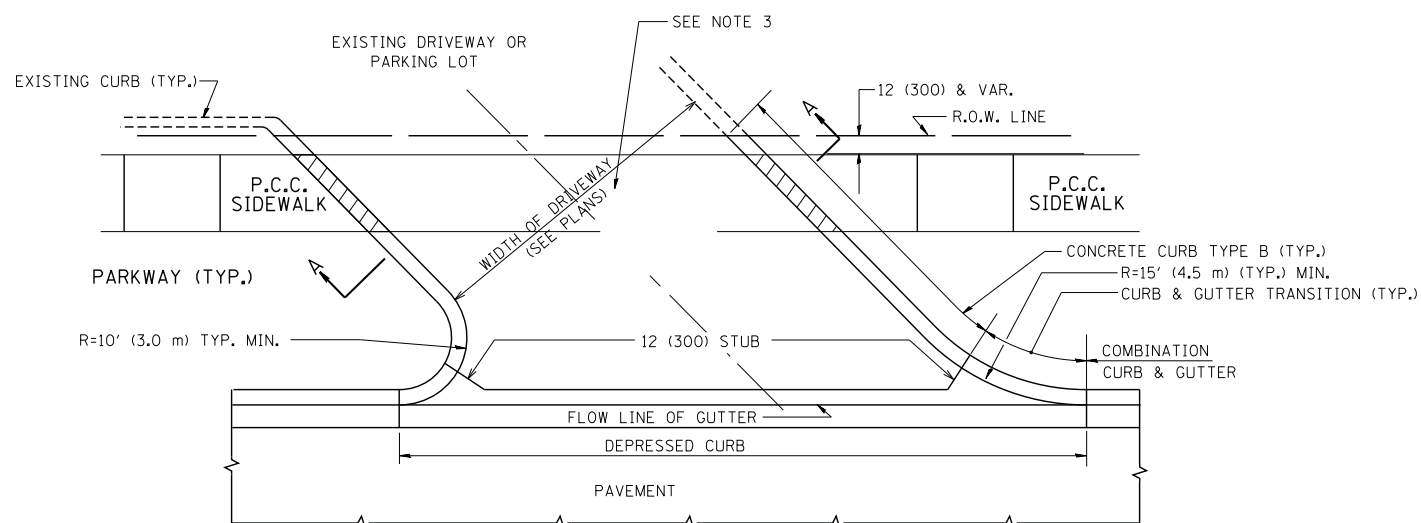
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	22

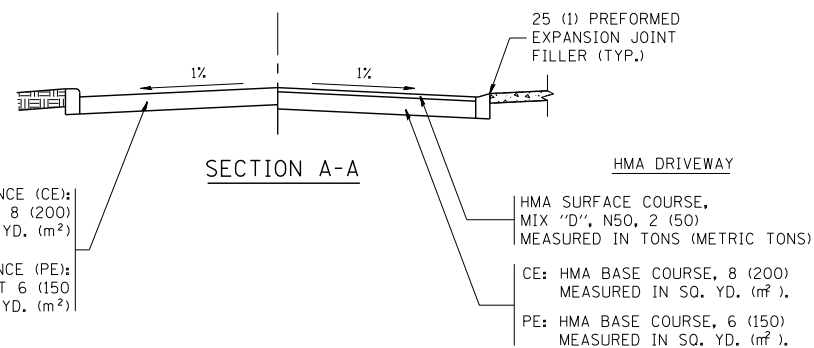
CONTRACT NO.
ILLINOIS FED. AID PROJECT



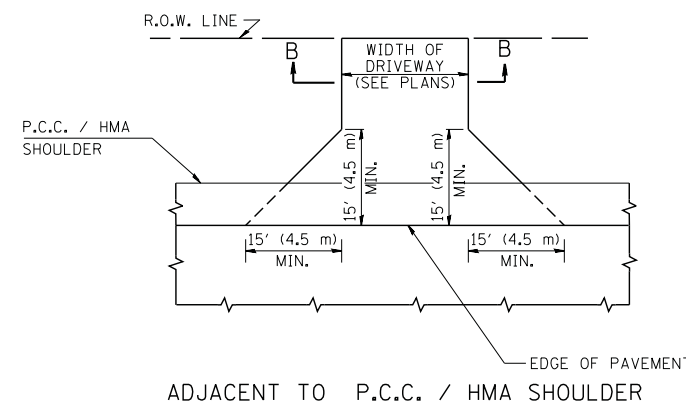
WITH CONCRETE CURB, TYPE B



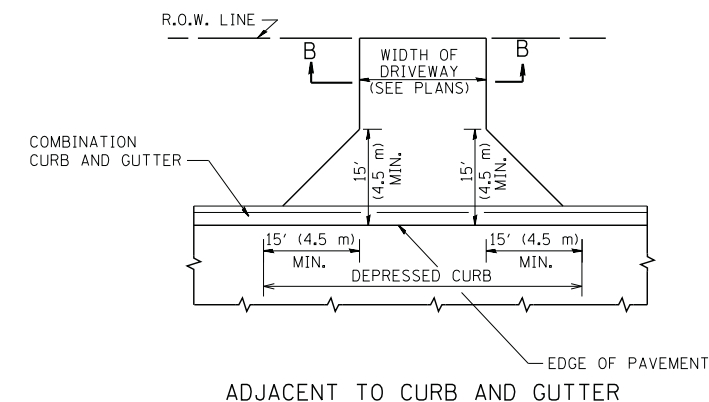
WITH CONCRETE CURB, TYPE B



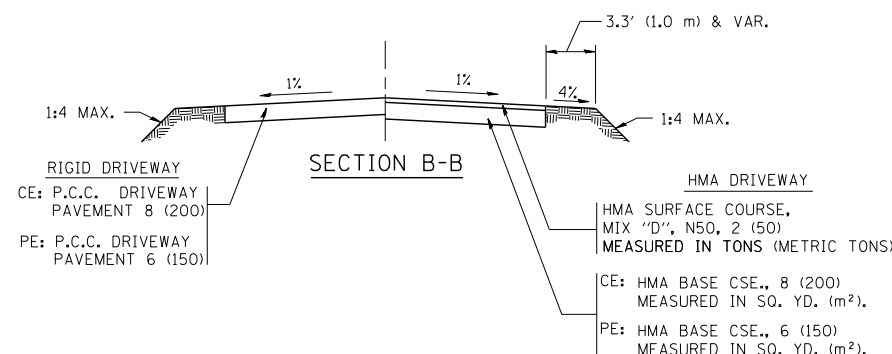
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

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.

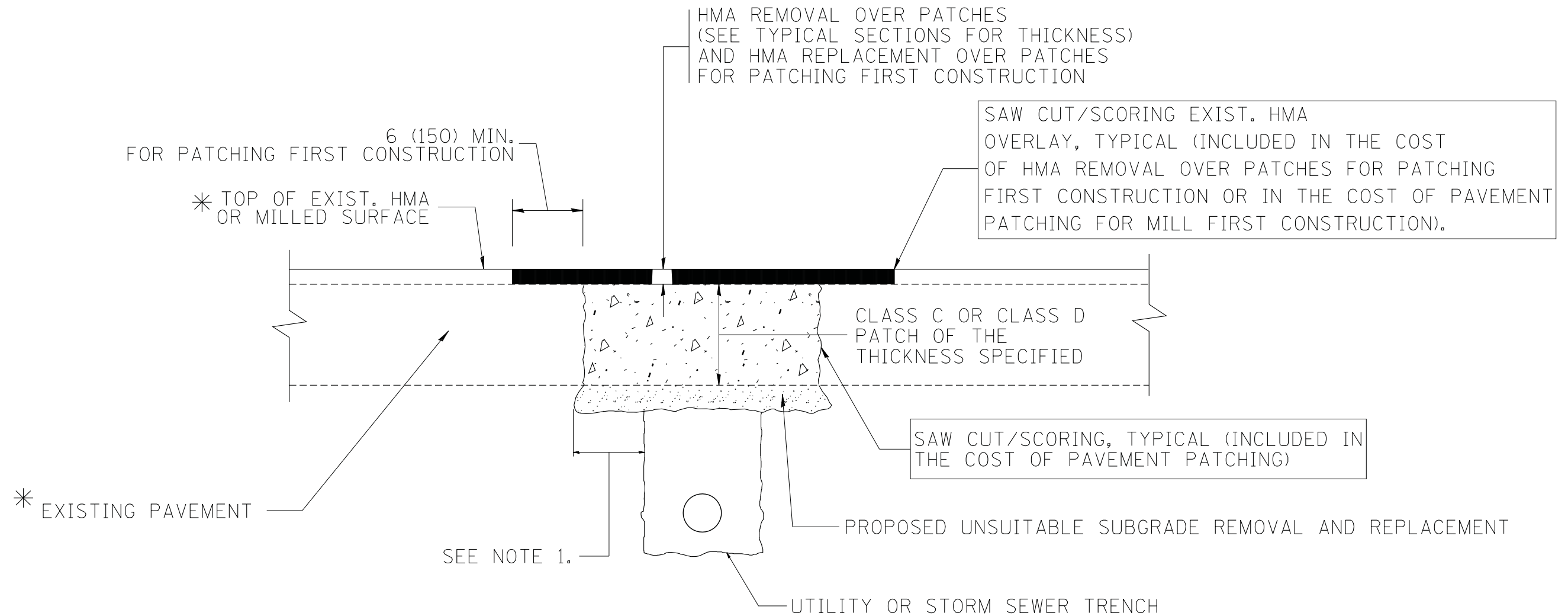
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00457-00-BR	MCHENRY	40	23
	BD0156-07 (BD-01)		CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

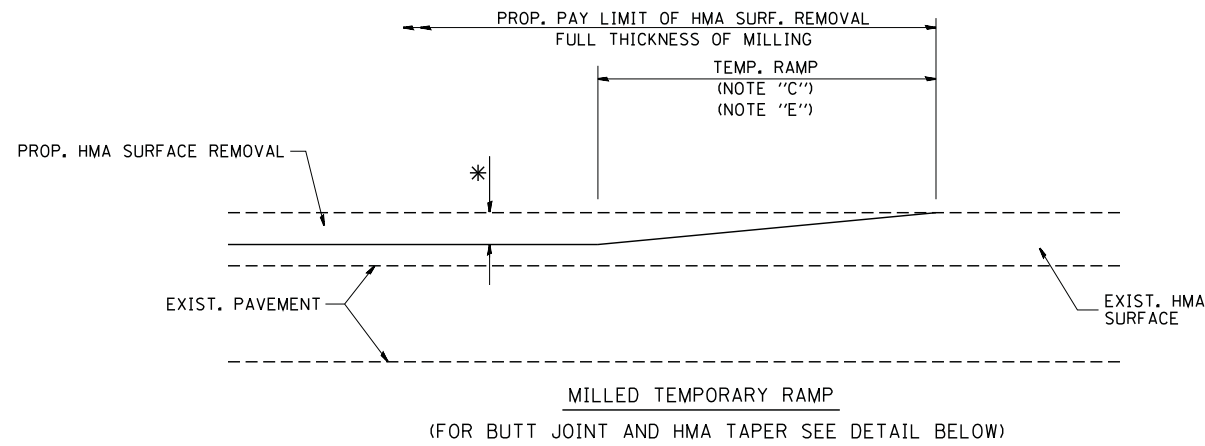
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

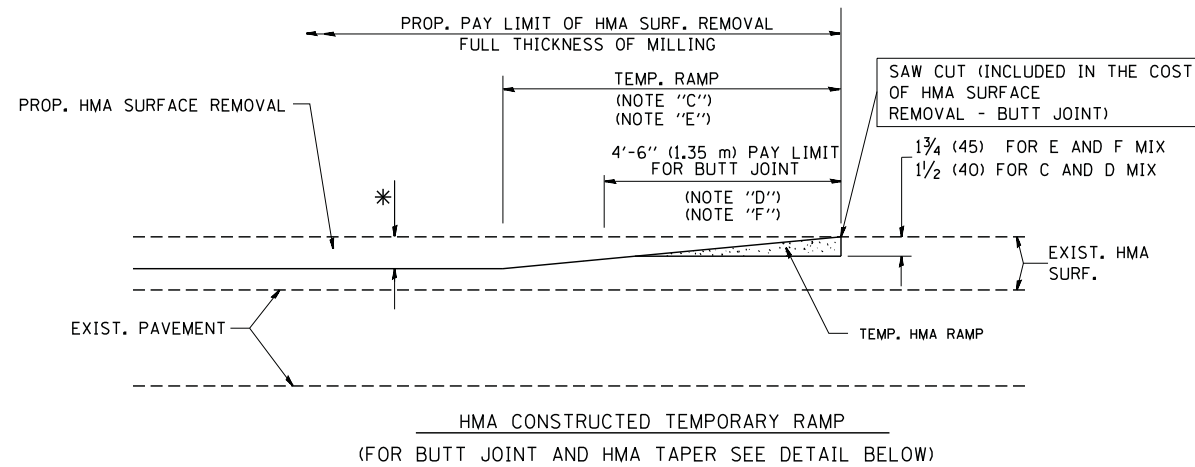
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00457-00-BR	MCHENRY	40	24
BD400-04 (BD-22)		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

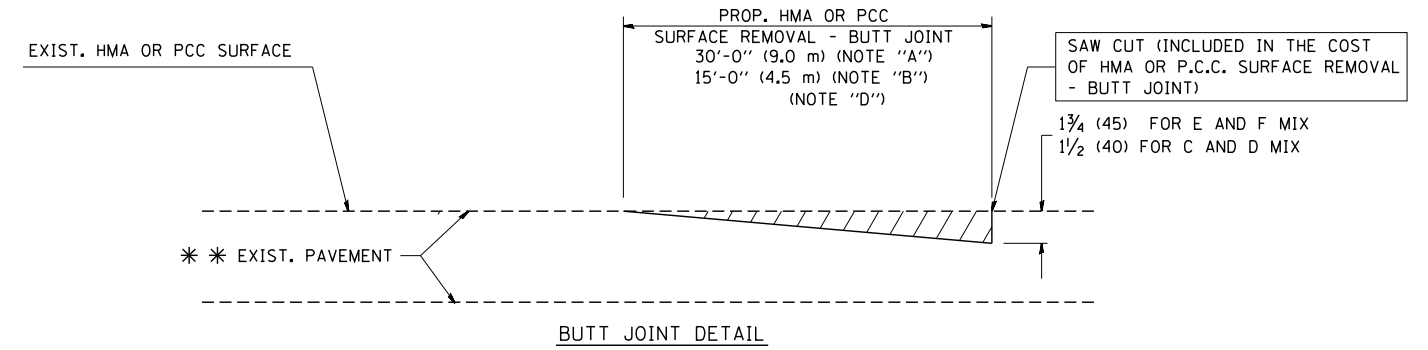


OPTION 1

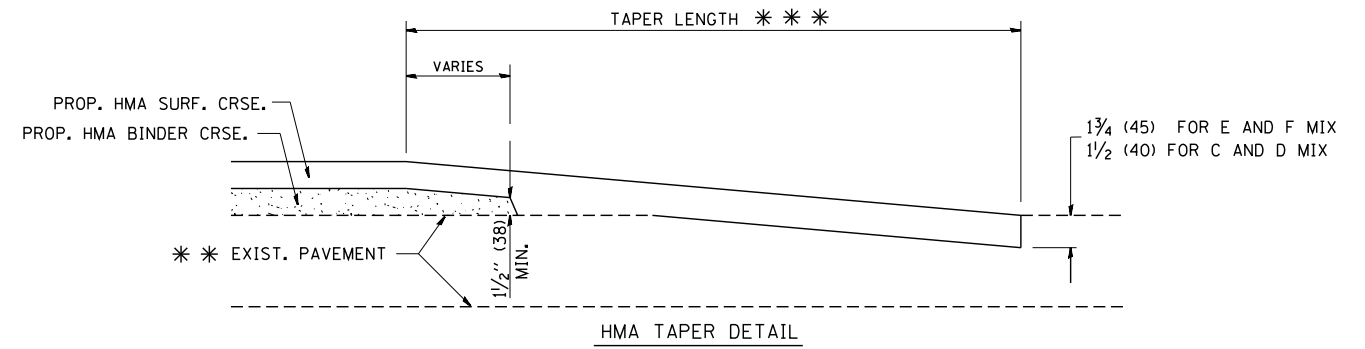


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

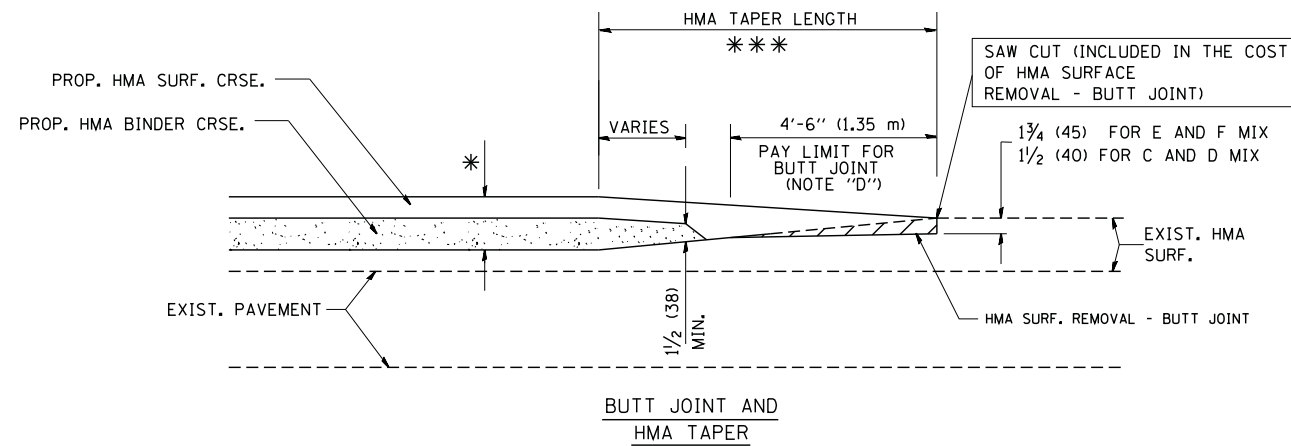
NOTES

- 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
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 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.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

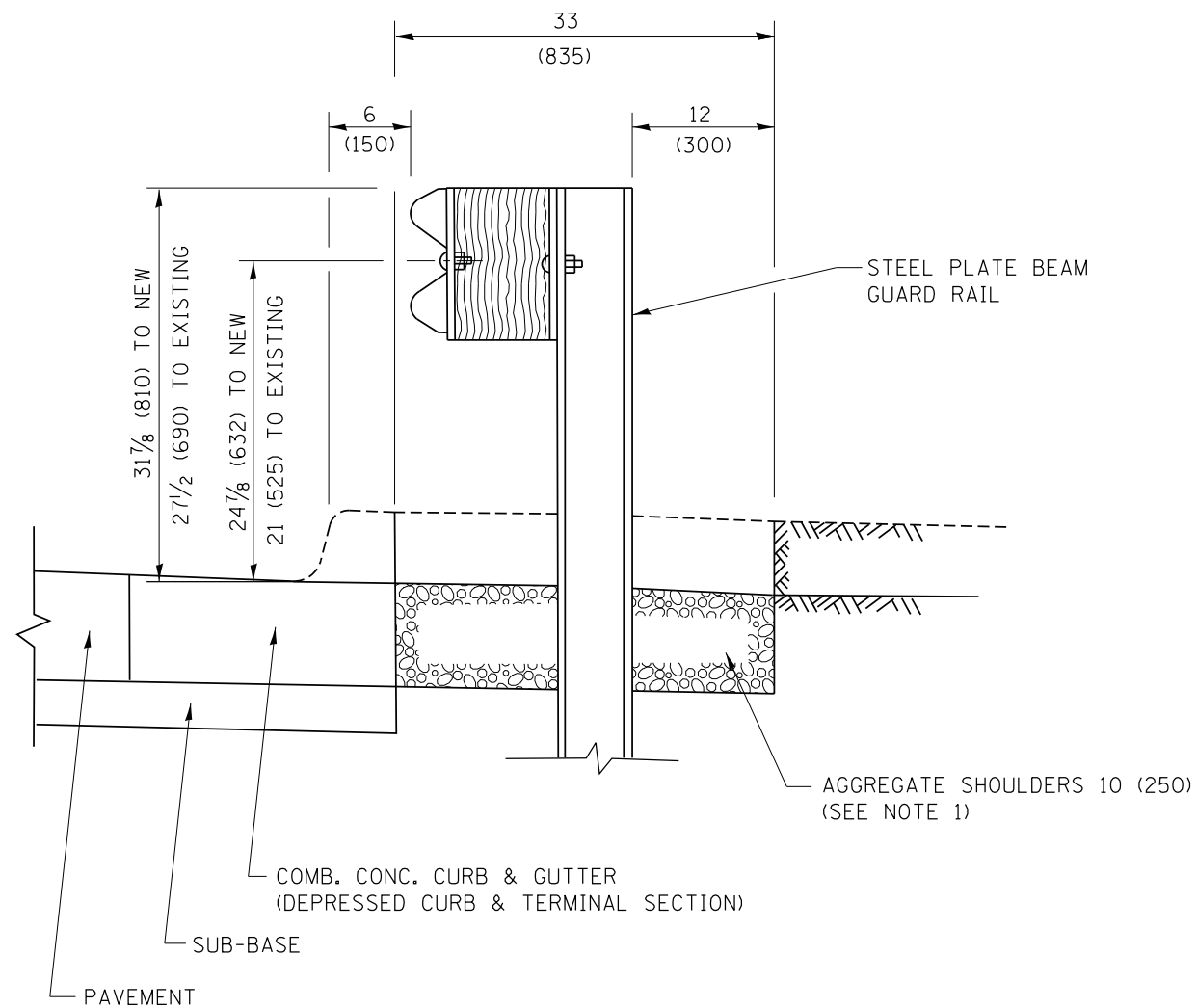
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

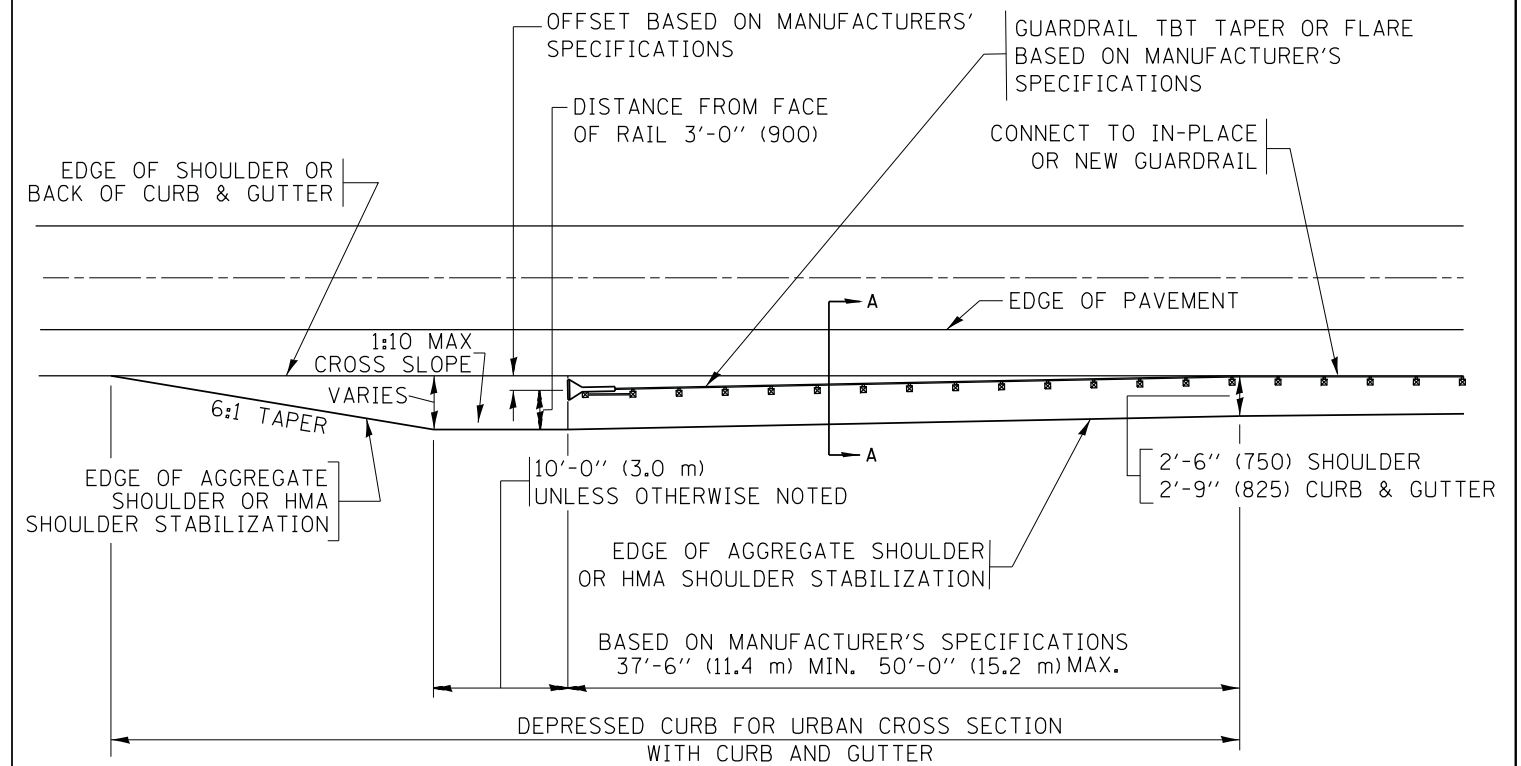
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00457-00-BR	MCHENRY	40	25
BD400-05 BD32		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

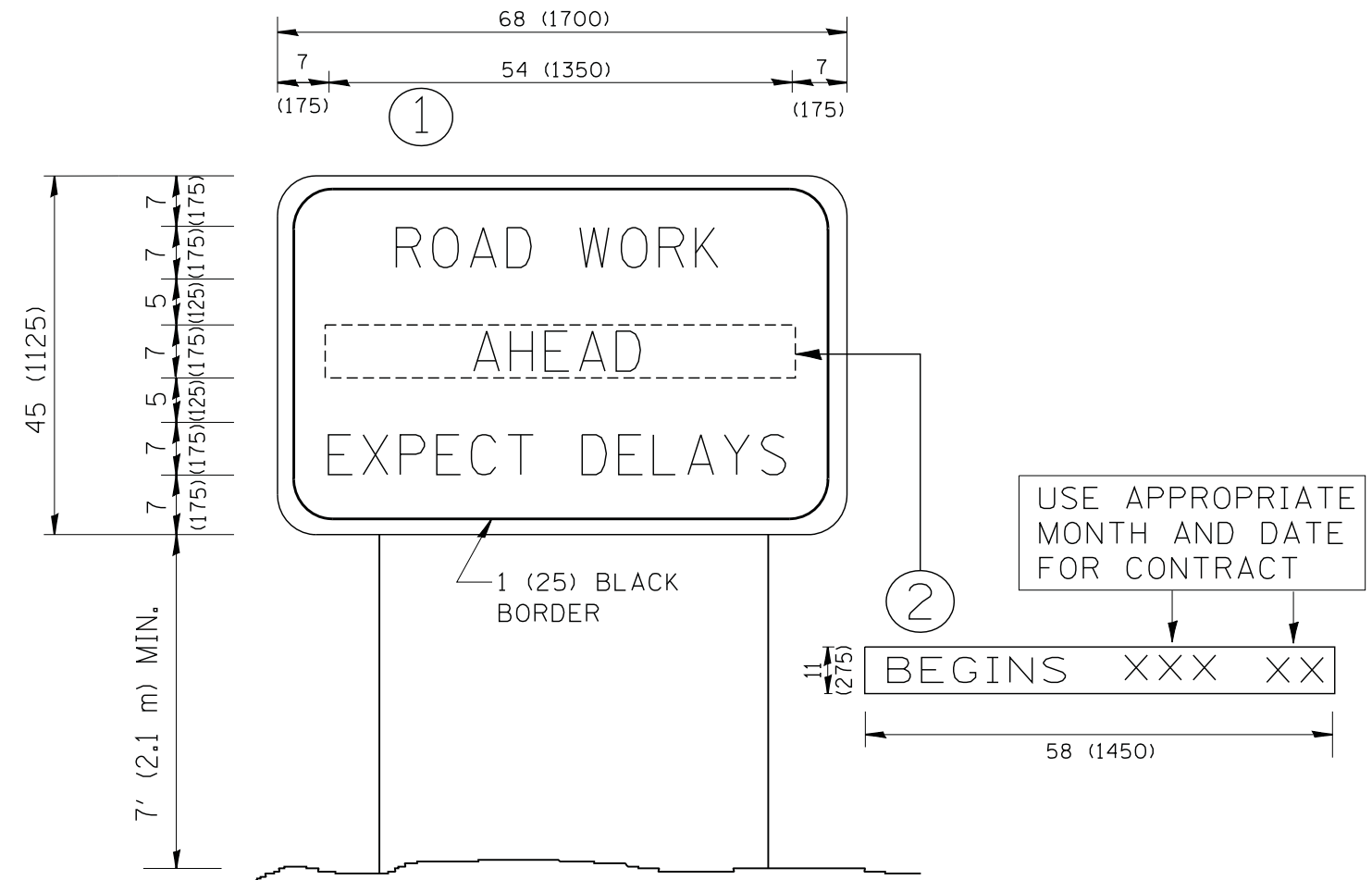
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Default	PLOT SCALE = 50.0000' / in.	DATE - 09-22-90	REVISED - R. BORO 08-06-2012
	PLOT DATE = 12/21/2015		REVISED - R. BORO 05-08-2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00457-00-BR	MCHENRY	40	26
BD600-10 (BD 34)		CONTRACT NO.		
ILLINOIS FED. AID 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.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl1onobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

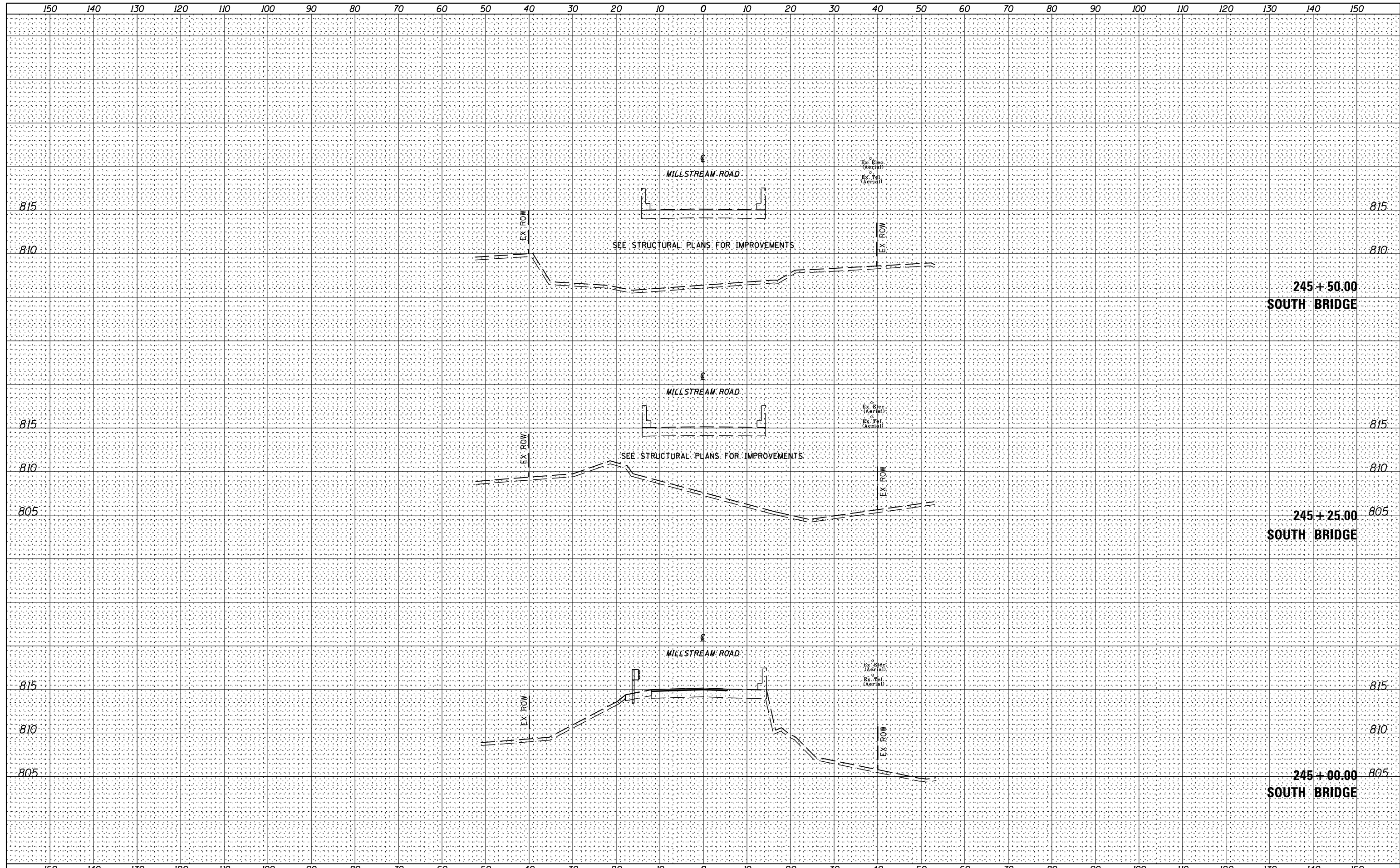
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00457-00-BR	MCHENRY	40	28
TC-22		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

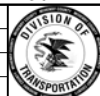
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BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

USER NAME = *USER*	DESIGNED - WJT	REvised -
	DRAWN - WJT	REvised -
PLOT SCALE = *SCALE*	CHECKED - MTC	REvised -
PLOT DATE = *DATE*	DATE - 11/11/2016	REvised -



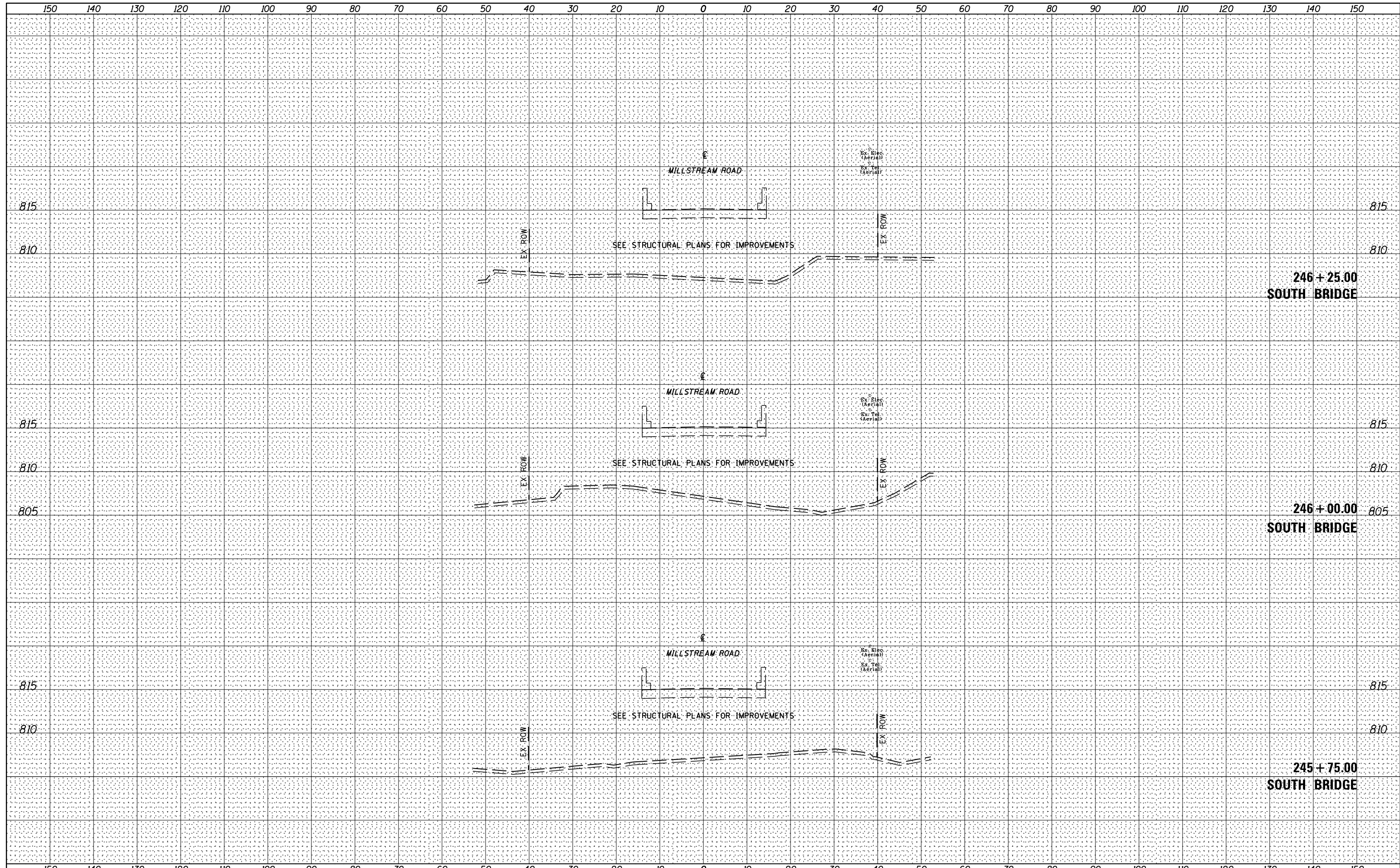
MCHENRY COUNTY
DIVISION OF TRANSPORTATION

MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
CROSS SECTIONS
VERT: 1"=5'
SCALE: HORZ: 1"=10' SHEET 3 OF 13 SHEETS STA. 245+00.00 TO STA. 245+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	31
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

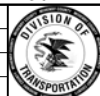
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

USER NAME = *USER*	DESIGNED - WJT	REVISIED -
PLOT SCALE = *SCALE*	DRAWN - WJT	REVISIED -
PLOT DATE = *DATE*	CHECKED - MTC	REVISIED -
	DATE - 11/11/2016	REVISIED -



MCHENRY COUNTY
DIVISION OF TRANSPORTATION

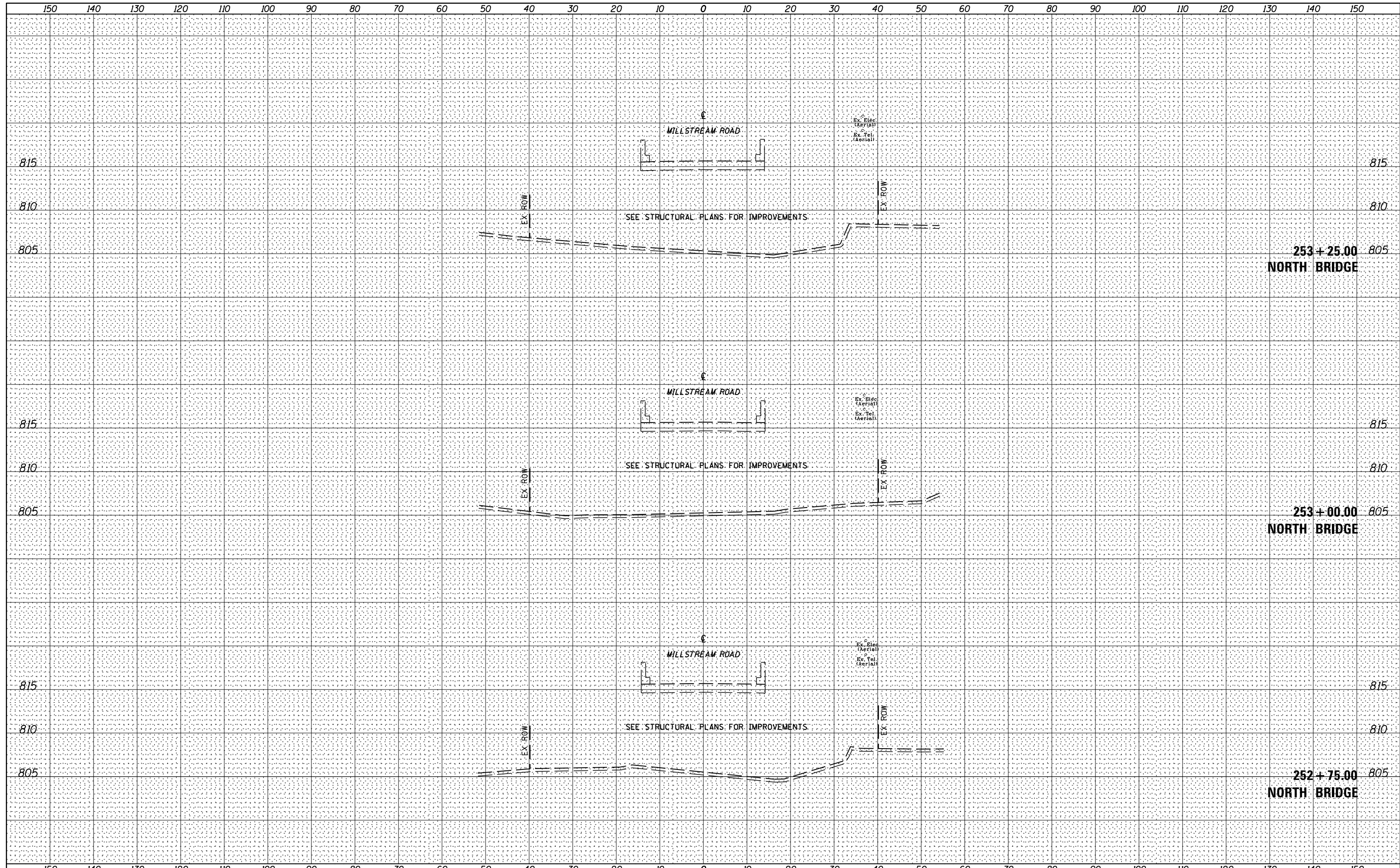
MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
CROSS SECTIONS
VERT: 1"=5'
SCALE: HORZ: 1"=10' SHEET 4 OF 13 SHEETS STA. 245+75.00 TO STA. 246+25.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	32
CONTRACT NO.				

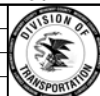
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



USER NAME = *USER*	DESIGNED - WJT	REVISIED -
	DRAWN - WJT	REVISIED -
PLOT SCALE = *SCALE*	CHECKED - MTC	REVISIED -
PLOT DATE = *DATE*	DATE - 11/11/2016	REVISIED -



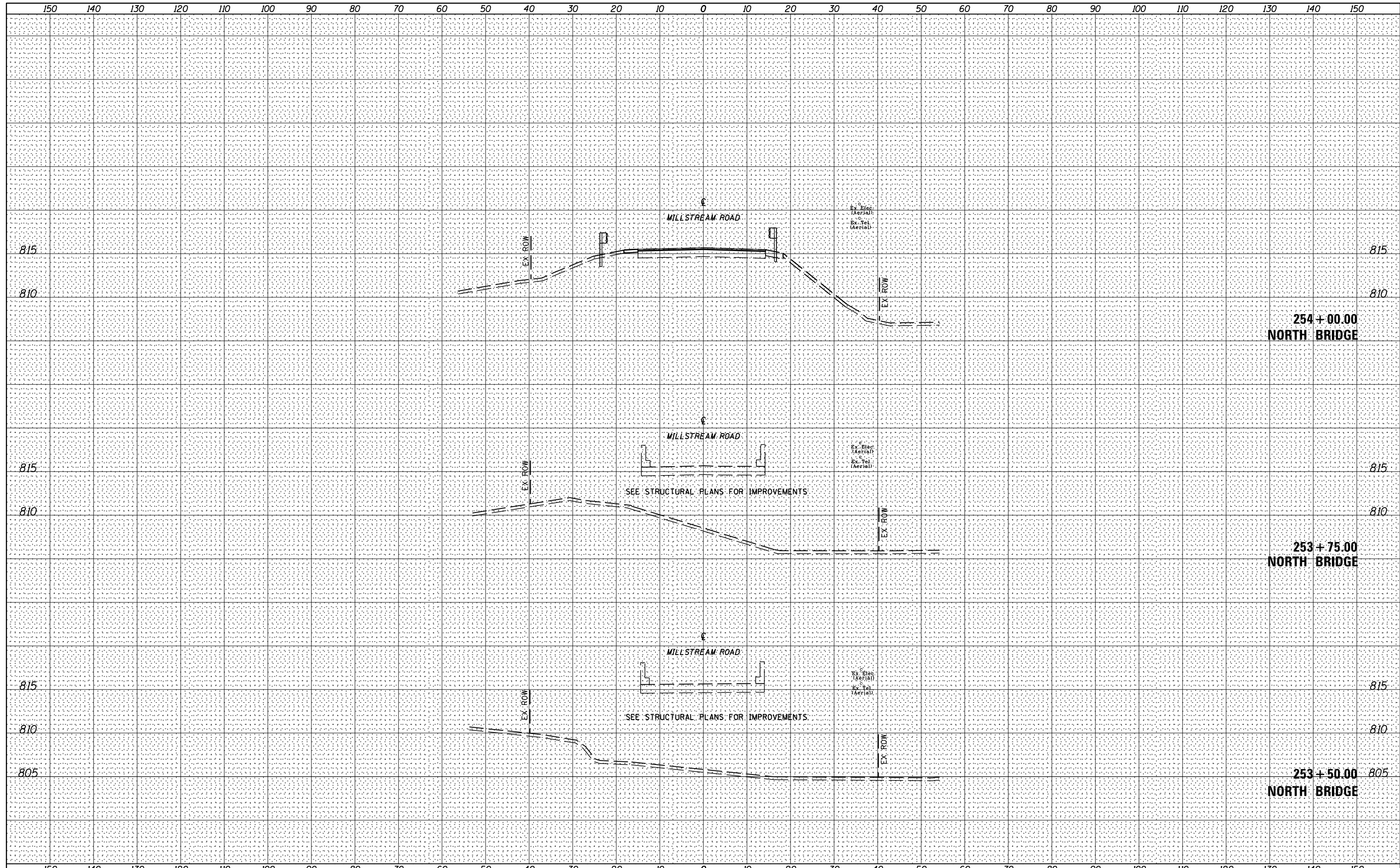
MCHENRY COUNTY
DIVISION OF TRANSPORTATION

MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
CROSS SECTIONS
VERT: 1"=5'
SCALE: HORZ: 1"=10' SHEET 10 OF 13 SHEETS STA. 252+75.00 TO STA. 253+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	37
CONTRACT NO.				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



USER NAME = *USER*	DESIGNED - WJT	REVISÉD -
	DRAWN - WJT	REVISÉD -
PLOT SCALE = *SCALE*	CHECKED - MTC	REVISÉD -
PLOT DATE = *DATE*	DATE - 11/11/2016	REVISÉD -



MCHENRY COUNTY
DIVISION OF TRANSPORTATION

MILLSTREAM ROAD OVER THE KISHWAUKEE RIVER
CROSS SECTIONS
VERT: 1"=5'
SCALE: HORZ: 1"=10' SHEET 11 OF 13 SHEETS STA. 253+50.00 TO STA. 254+00.00

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH T64	16-00457-00-BR	MCHENRY	40	38
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

