

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	1
		ILLINOIS	CONTRACT NO. 62M40	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**PROPOSED  
HIGHWAY PLANS**

F.A.P. RTE. 347 / ROOSEVELT ROAD  
OVER DES PLAINES RIVER  
SECTION: 2020-159-BR  
PROJECT: NHPP-39KM(601)  
BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR  
COUNTY: COOK

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**TRAFFIC DATA**

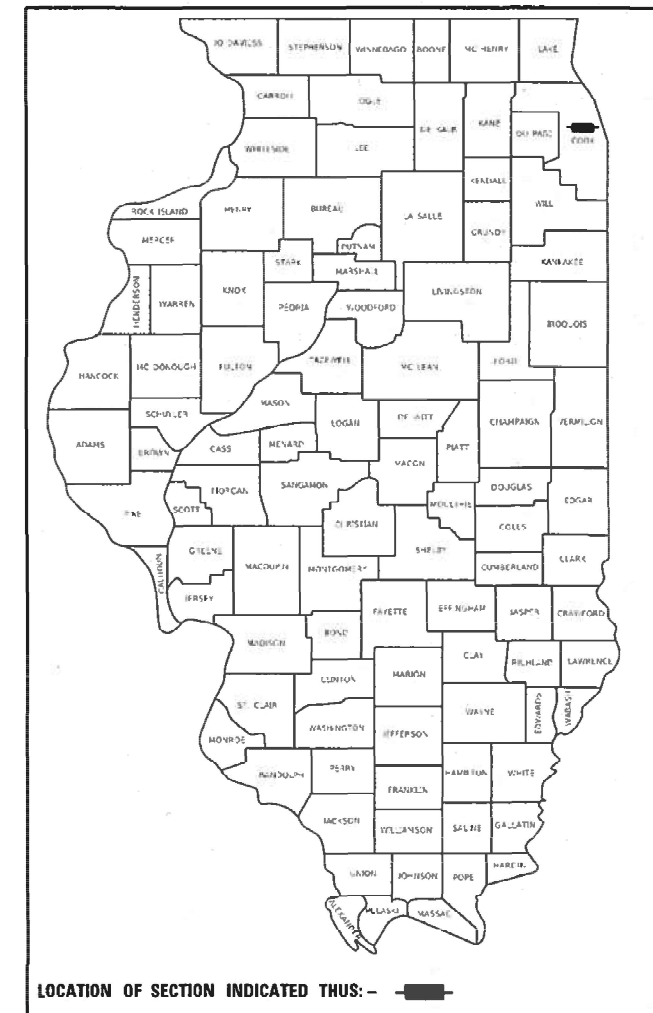
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

2018 ADT = 25,300

DESIGN SPEED: 35 M.P.H.

SPEED LIMIT: 35 M.P.H.

D-91-556-20



PROJECT LOCATED IN THE  
VILLAGE OF FOREST PARK

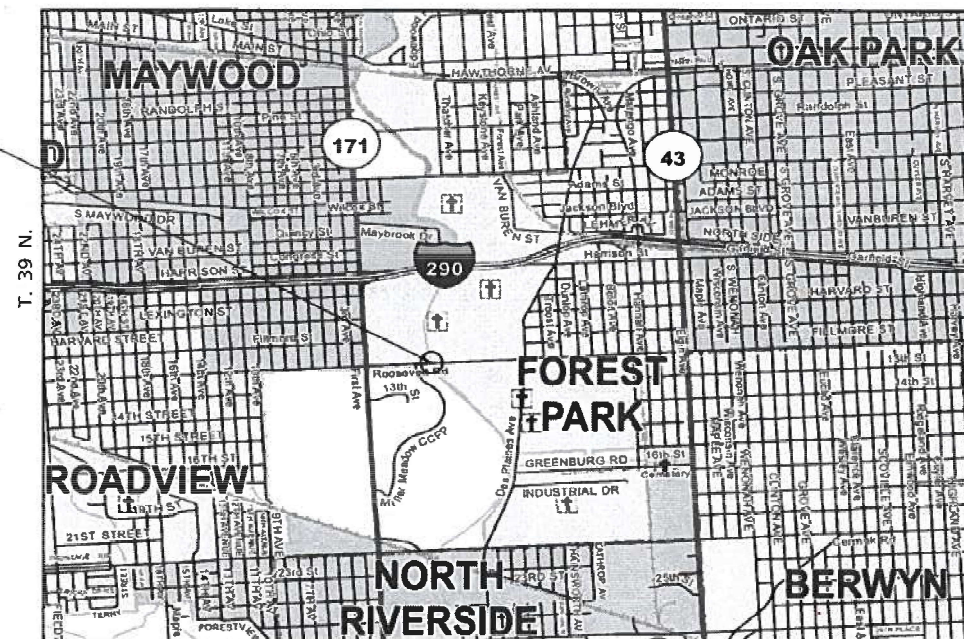
PROJECT BEGINS  
STA. 55 + 14.00

BRIDGE  
S.N. 016-0472

PROJECT ENDS  
STA. 58 + 07.00

C-91-355-20

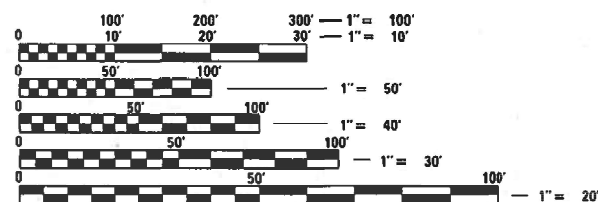
PROVISO TOWNSHIP R. 12 E.



**LOCATION MAP**

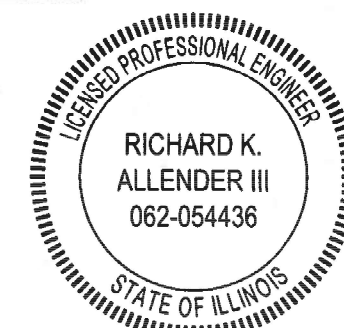
GROSS LENGTH OF PROJECT = 293.00 FEET = 0.055 MILES

NET LENGTH OF PROJECT = 293.00 FEET = 0.055 MILES



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



*Richard K. Allender III* 1-13-21  
Expires: 11/30/2021

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 9, 2021  
John T. Jones REGIONAL ENGINEER

March 19, 2021  
Scott A. Etkin  
ENGINEER OF DESIGN AND ENVIRONMENT

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

DISTRICT ONE - DESIGN  
PROJECT MANAGER : FAWAD AQUEEL, PE, PTOE (847) 705-4247  
PROJECT ENGINEER : VESELIN VELICHKOV (847) 705-4432  
CONTRACT NO. 62M40

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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**ILLINOIS DOT HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631026-06 TRAFFIC BARRIER TERMINAL, TYPE 5
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**DISTRICT ONE STANDARDS**

- BD-32 BUTT JOINTS AND HMA TAPER
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING

**GENERAL NOTES**

1. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
3. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEERS.
4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
5. IN ADDITION TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
7. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
8. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
10. THE RESIDENT ENGINEER SHALL CONTACT EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, AT EMAD.ALHUSSEINI@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. ANY SIGNAGE, PAVEMENT MARKINGS AND REFLECTORS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
14. THE CONTRACTOR AND THE RESIDENT ENGINEER SHALL CONTACT THE VILLAGE OF FOREST PARK PUBLIC WORKS DIRECTOR (JOHN DOSS 708-323-9136 OR JD OSS@FORESTPARK.NET) AT LEAST ONE WEEK PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.

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design firm  
no. 184001036



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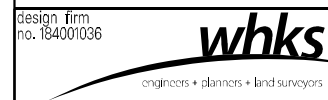
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	2
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE BRIDGE 0059
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	112		112
25200110	SODDING, SALT TOLERANT	SQ YD	112		112
28000510	INLET FILTERS	EACH	3		3
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	68		68
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	190		190
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	346		346
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	85		85
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	95		95
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	339		339
44000600	SIDEWALK REMOVAL	SQ FT	95		95
50102400	CONCRETE REMOVAL	CU YD	10.4		10.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	10.9		10.9
50300260	BRIDGE DECK GROOVING	SQ YD	628		628
50300300	PROTECTIVE COAT	SQ YD	900		900



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
ROOSEVELT ROAD OVER DES PLAINES RIVER			
SCALE: 1"=50'	SHEET 1	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	3
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE BRIDGE 0059
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1830		1830
50800515	BAR SPLICERS	EACH	12		12
52000110	PREFORMED JOINT STRIP SEAL	FOOT	116		116
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	7		7
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	340		340
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75		75
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	3		3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3		3
63200310	GUARDRAIL REMOVAL	FOOT	267		267
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6		6
67100100	MOBILIZATION	L SUM	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	90		90
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	42		42
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	8135		8135

\* SPECIALTY ITEM

REV-SEP



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PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
ROOSEVELT ROAD OVER DES PLAINES RIVER

SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	4
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE BRIDGE 0059
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	513		513
70400100	TEMPORARY CONCRETE BARRIER	FOOT	275		275
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275		275
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3		3
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110		110
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5145		5145
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	397		397
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	143		143
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	244		244
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	28		28
* 78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	28		28
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	2		2

\* SPECIALTY ITEM

REV-SEP



USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
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PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	5
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE BRIDGE 0059
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30		30
89502376	REBUILD EXISTING HANDHOLE	EACH	1		1
X0326331	CLEANING AND PAINTING BEARINGS	EACH	18		18
X0327638	STREAM GAUGE	EACH	1		1
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2214		2214
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	60		60
* X2700004	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	60		60
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	3011		3011
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	9		9
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	19		19
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	649		649
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	649		649
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	82		82

\* SPECIALTY ITEM



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	6
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS FED. AID PROJECT		

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	80% FED 20% STATE BRIDGE 0059
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	7		7
Z0015550	DEBRIS REMOVAL	CU YD	30		30
<input type="checkbox"/> Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	3		3
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52		52
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	14		14
<input type="checkbox"/> Z0076600	TRAINEES	HOURS	500		500
<input type="checkbox"/> Z0076604	TRAINEES - TRAINING PROGRAM GRADUTE	HOURS	500		500

NON-PART 100% STATE

REV-SEP



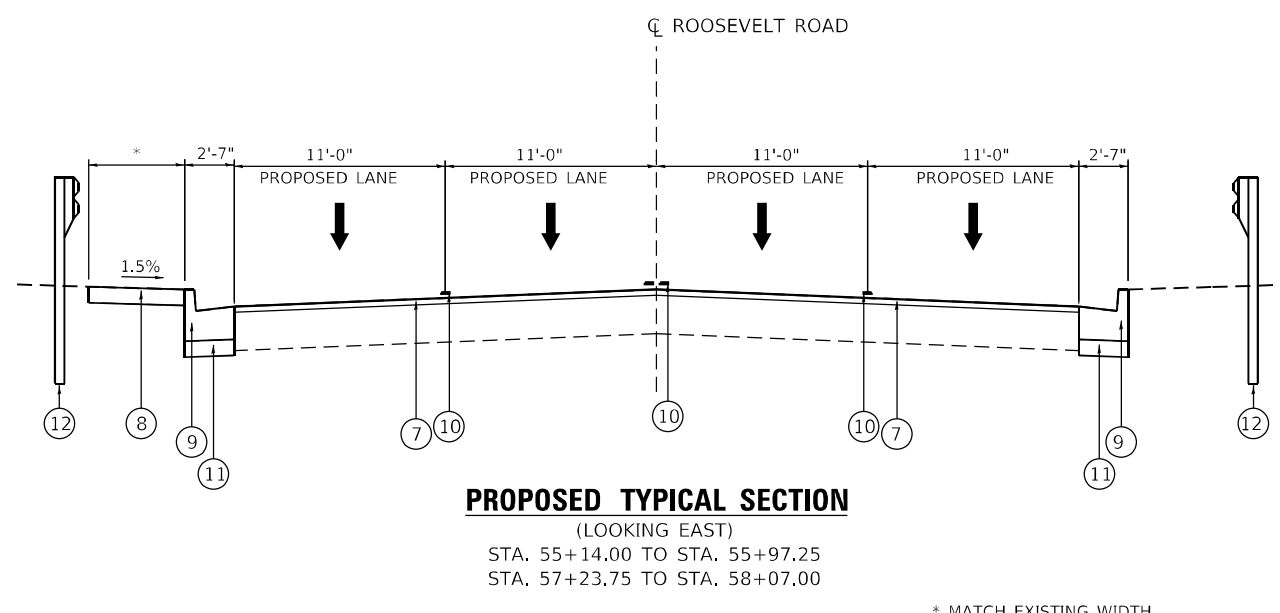
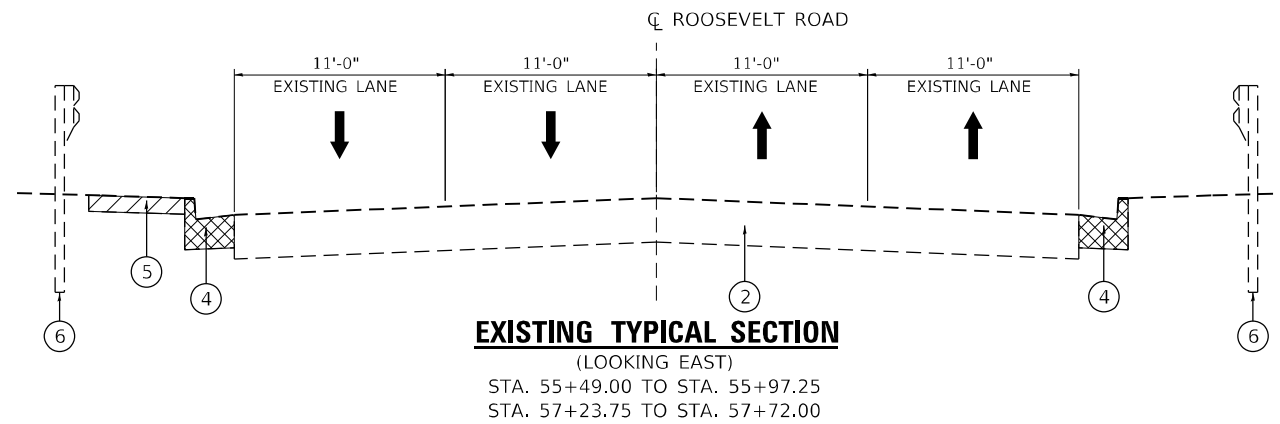
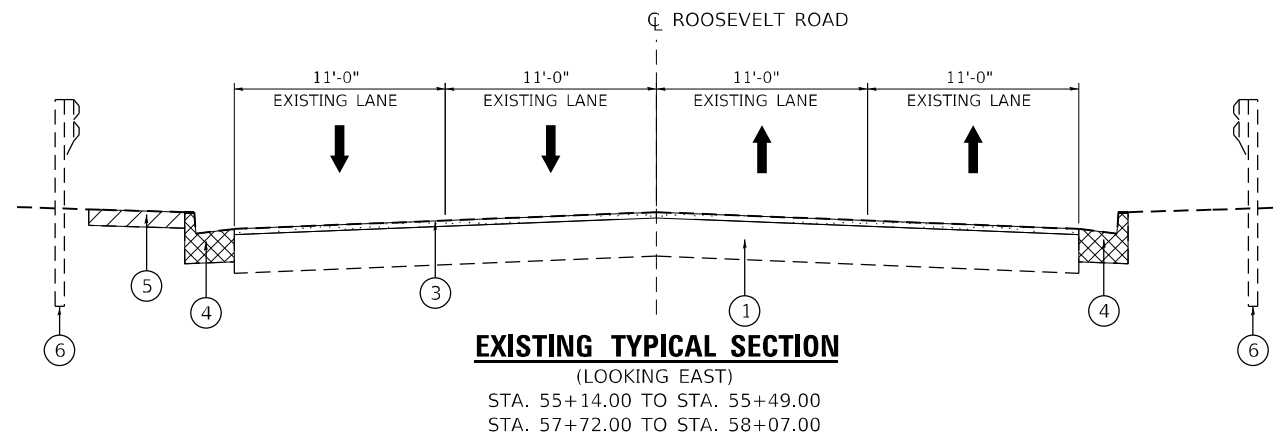
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=50'    SHEET 5 OF 5 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	7
ILLINOIS			CONTRACT NO. 62M40	
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① EXISTING HMA PAVEMENT
- ② EXISTING CONCRETE APPROACH SLAB
- ③ HMA SURFACE REMOVAL - BUTT JOINT
- ④ COMBINATION CURB AND GUTTER REMOVAL
- ⑤ SIDEWALK REMOVAL
- ⑥ EXISTING GUARDRAIL
- ⑦ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 (1¾")
- ⑧ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑩ PAVEMENT MARKING - LINE 4"
- ⑪ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑫ PROPOSED GUARDRAIL

MIXTURE TYPE	AIR Voids @ Nbes	QMP
<b>SURFACE COURSE</b>		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70 (1.75")	4% @ 70 GYR.	QC/QA
<b>TEMPORARY PAVEMENT (VARIABLE DEPTH)</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4% @ 70 GYR.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PPF)		

- 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 THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
  - 3 FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS
  - 4 SEE BUTT JOINT AND HMA TAPER DETAILS FOR ADDITIONAL NOTES AND DETAILS.
  - 5 QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.







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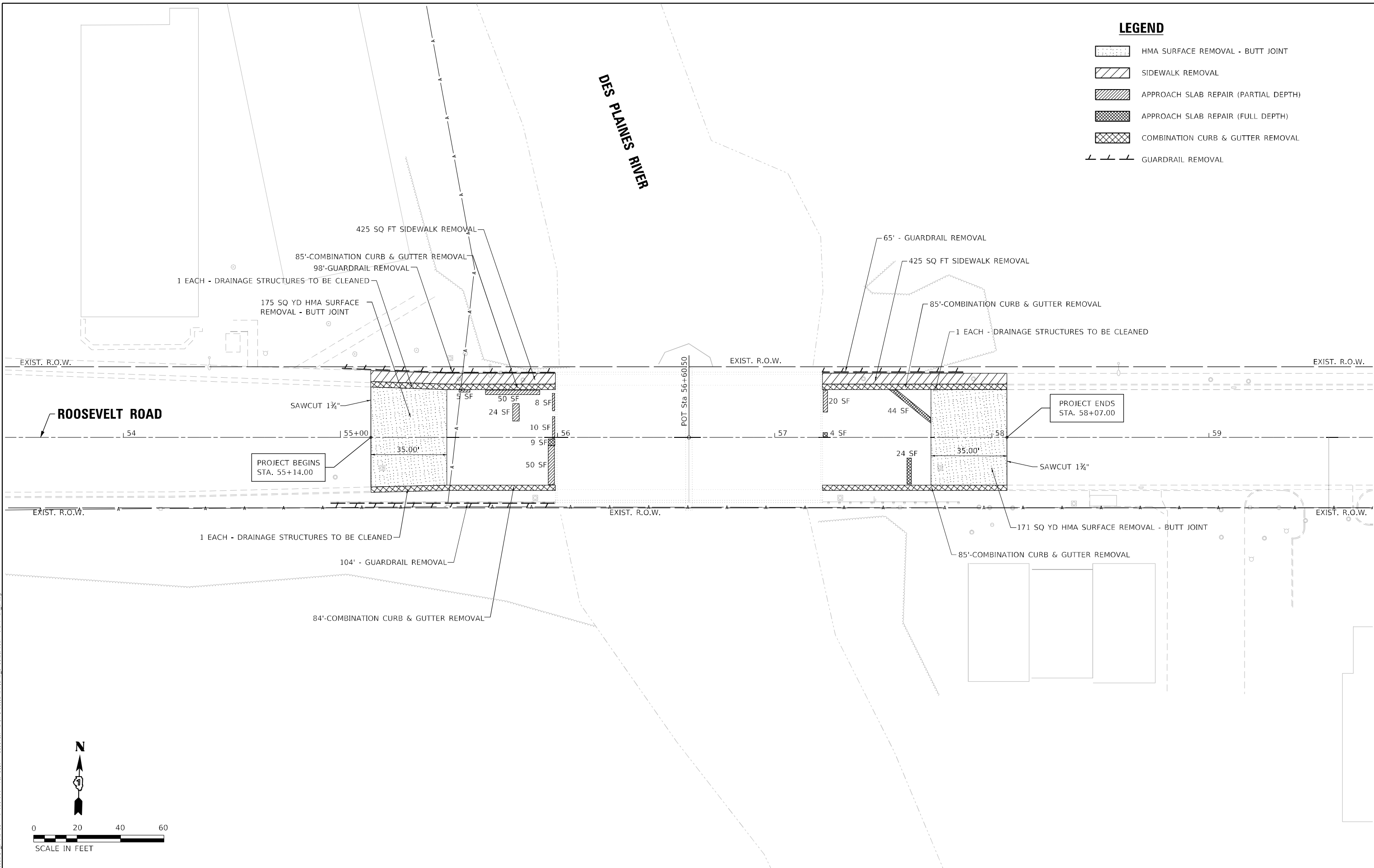
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	8
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	



**LEGEND**

-  HMA SURFACE REMOVAL - BUTT JOINT
-  SIDEWALK REMOVAL
-  APPROACH SLAB REPAIR (PARTIAL DEPTH)
-  APPROACH SLAB REPAIR (FULL DEPTH)
-  COMBINATION CURB & GUTTER REMOVAL
-  GUARDRAIL REMOVAL

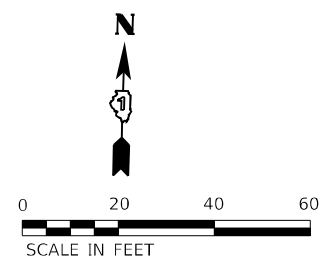
DES PLAINES RIVER



**ROOSEVELT ROAD**

PROJECT BEGINS  
STA. 55+14.00

PROJECT ENDS  
STA. 58+07.00



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USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - BJH	REVISED
PLOT SCALE = 480,0000 ' / R.	DRAWN - GSI	REVISED
PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

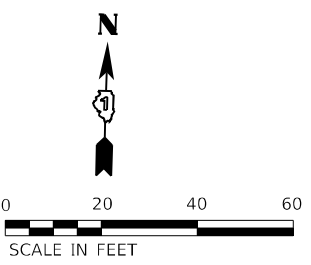
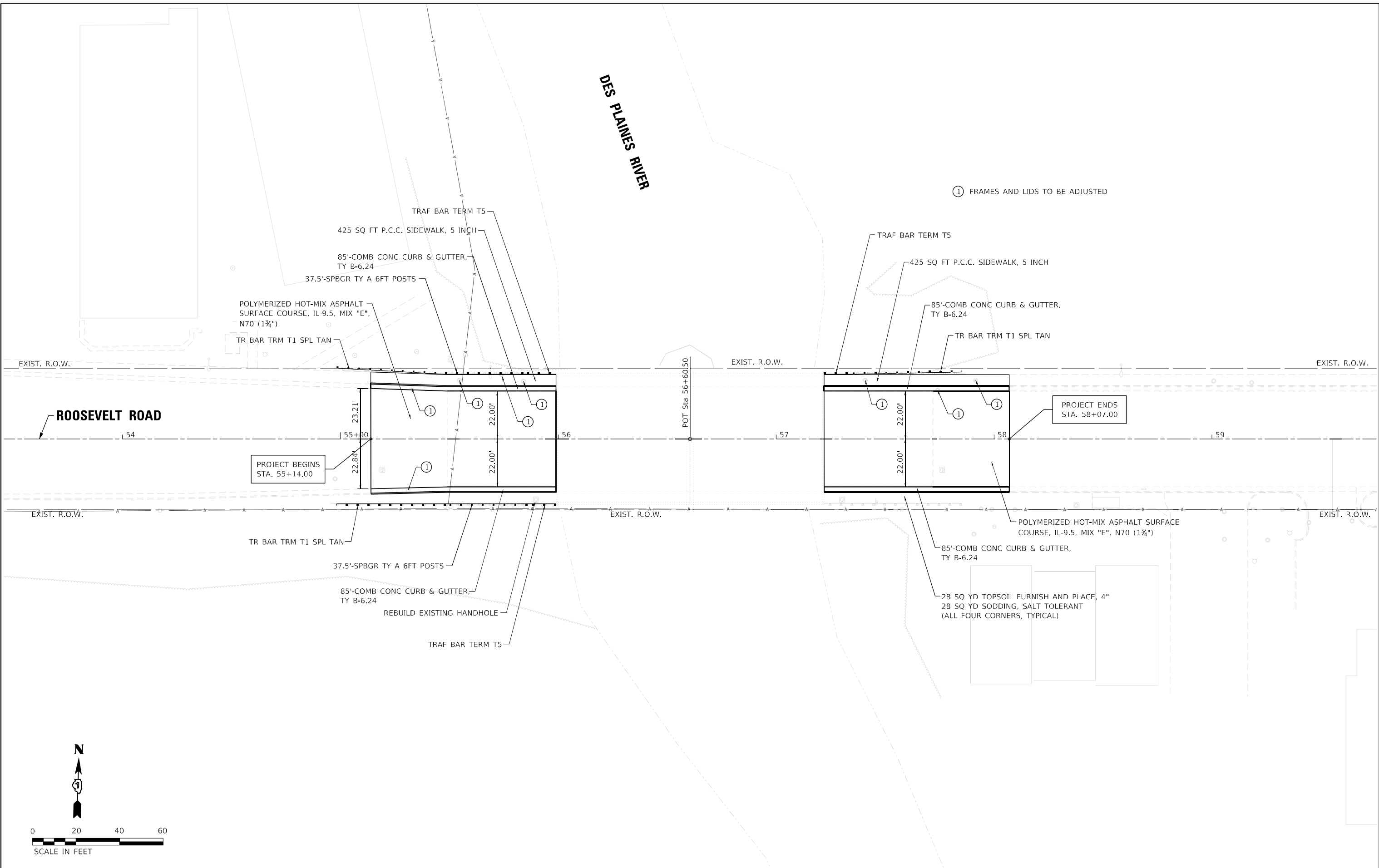
**ROADWAY EXISTING CONDITION  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=20'    SHEET 1 OF 1 SHEETS    STA. 55+14.00 TO STA. 58+07.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	9
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	

DES PLAINES RIVER

① FRAMES AND LIDS TO BE ADJUSTED



MODEL: Default  
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Design firm  
no. 184001036



USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - BJJ	REVISED
PLOT SCALE = 480,0000 ' / R.	DRAWN - GSI	REVISED
PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PROPOSED PLAN  
ROOSEVELT ROAD OVER DES PLAINES RIVER

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 55+14.00 TO STA. 58+07.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	10
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	

**TRAFFIC CONTROL GENERAL NOTES**

1. THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.
2. CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE CONSTRUCTION.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE, TYPE IV.
4. REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
5. EXISTING, CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING.
6. THE EXISTING PAVEMENT MARKINGS THAT HAVE BEEN REMOVED SHALL BE REPLACED. SEE PAVEMENT MARKING PLAN FOR TYPE.
7. USE SUGGESTED TRAFFIC CONTROL AND PROTECTION PLAN IN CONJUNCTION WITH STANDARD 701606 AND APPLICABLE PORTIONS OF DISTRICT ONE STANDARD TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS. ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE RESIDENT ENGINEER. ALL WORK AND SIGNAGE IN THE PLANS SHALL BE INCLUDED IN THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE PROVIDED IN THE PLANS.
8. A MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED ON THE FIRST TWO WARNING SIGNS ON EACH APPROACH DURING HOURS OF DARKNESS.
9. TEMPORARY CONCRETE BARRIER SHALL BE PLACED AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL AND PROTECTION PLAN AND IN CONJUNCTION WITH STANDARD 704001.

**SUGGESTED STAGING AND MAINTENANCE OF TRAFFIC**

CONSTRUCTION STAGING

STAGE I

SCARIFY BRIDGE ON EASTBOUND HALF OF BRIDGE, PLACE LATEX CONCRETE OVERLAY AND REPAIR BRIDGE JOINTS. REMOVE AND REPLACE COMBINATION CONCRETE CURB AND GUTTER ON RIGHT. ADJUST FRAMES AND LIDS ON RIGHT.

STAGE II

SCARIFY BRIDGE ON WESTBOUND HALF OF BRIDGE, PLACE LATEX CONCRETE OVERLAY AND REPAIR BRIDGE JOINTS. REMOVE AND REPLACE COMBINATION CONCRETE CURB AND GUTTER AND CONCRETE SIDEWALK ON LEFT. ADJUST FRAMES AND LIDS ON LEFT.

OVERLAY APPROACH SLABS AND EXISTING PAVEMENT AT THE END OF STAGE II.

MAINTENANCE OF TRAFFIC

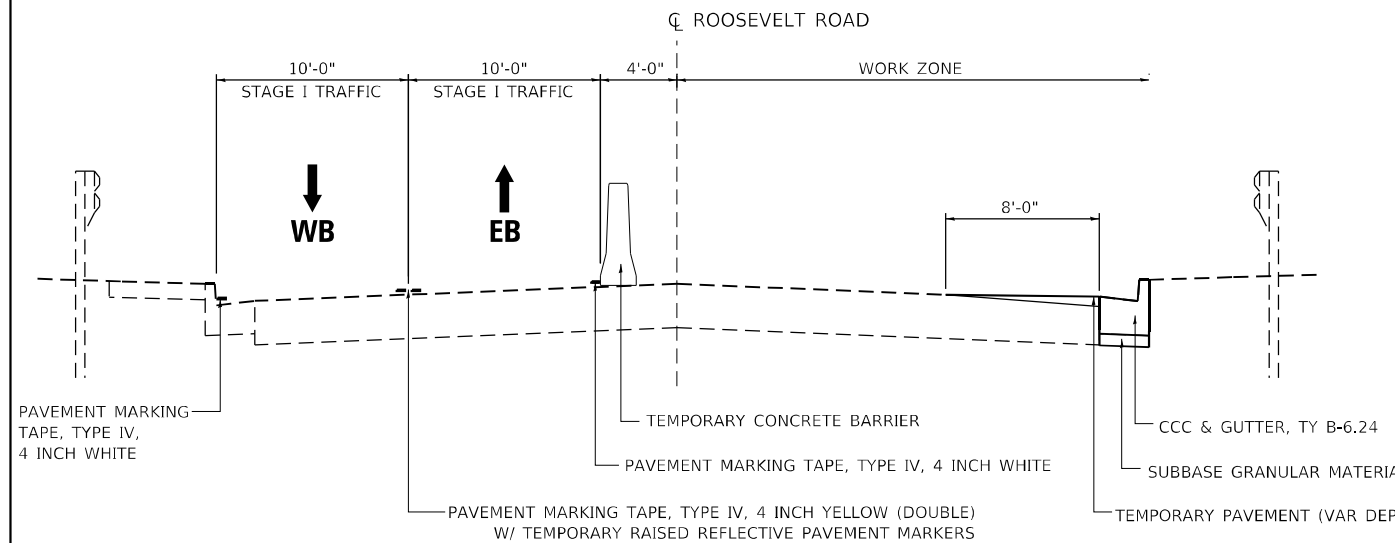
STAGE I

CLOSE TWO EASTBOUND LANES AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL AND PROTECTION PLAN UTILIZING HIGHWAY STANDARD 701611. MAINTAIN TWO-LANE TWO-WAY TRAFFIC ON WESTBOUND PAVEMENT ACROSS BRIDGE. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS.

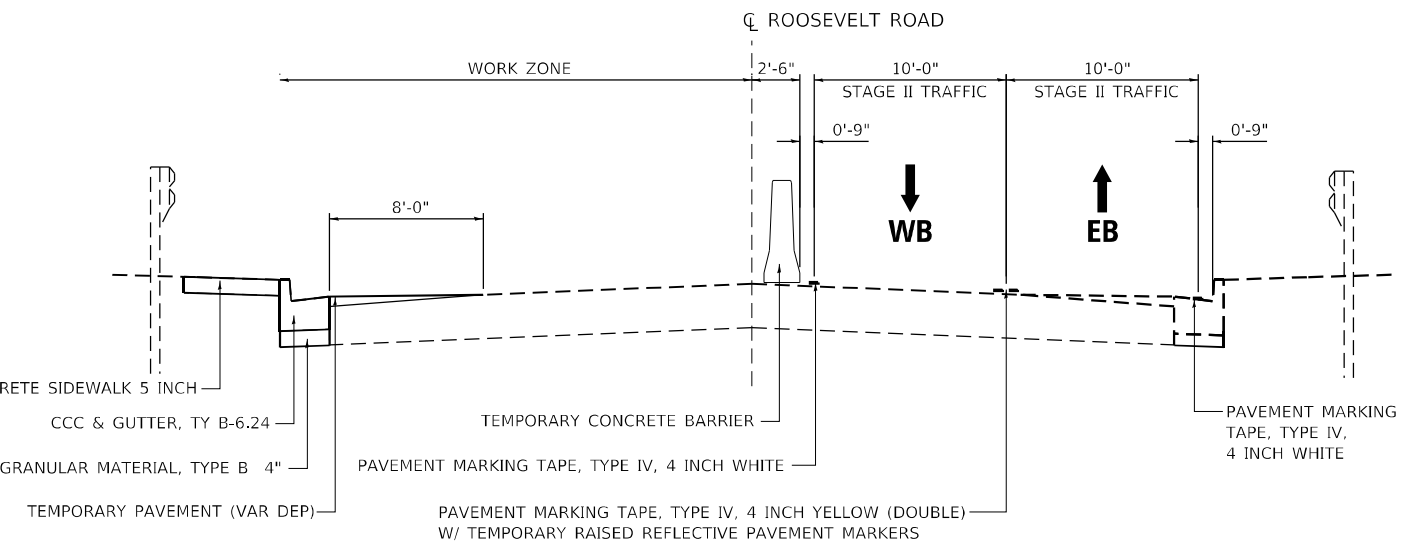
STAGE II

CLOSE TWO EASTBOUND LANES AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL AND PROTECTION PLAN UTILIZING HIGHWAY STANDARD 701611. MAINTAIN TWO-LANE TWO-WAY TRAFFIC ON WESTBOUND PAVEMENT ACROSS BRIDGE. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS.

USE LANE CLOSURES TO OVERLAY APPROACH SLABS AND PAVEMENT AT THE END OF STAGE II UTILIZING HIGHWAY STANDARD 701606.



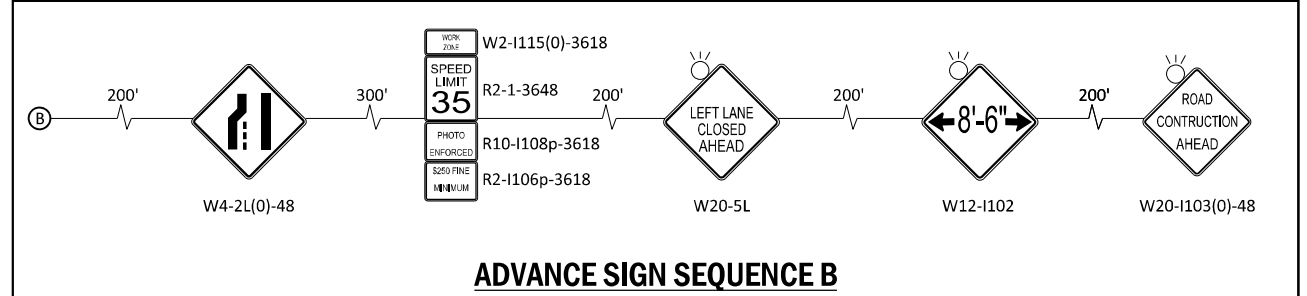
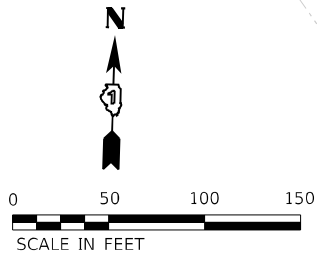
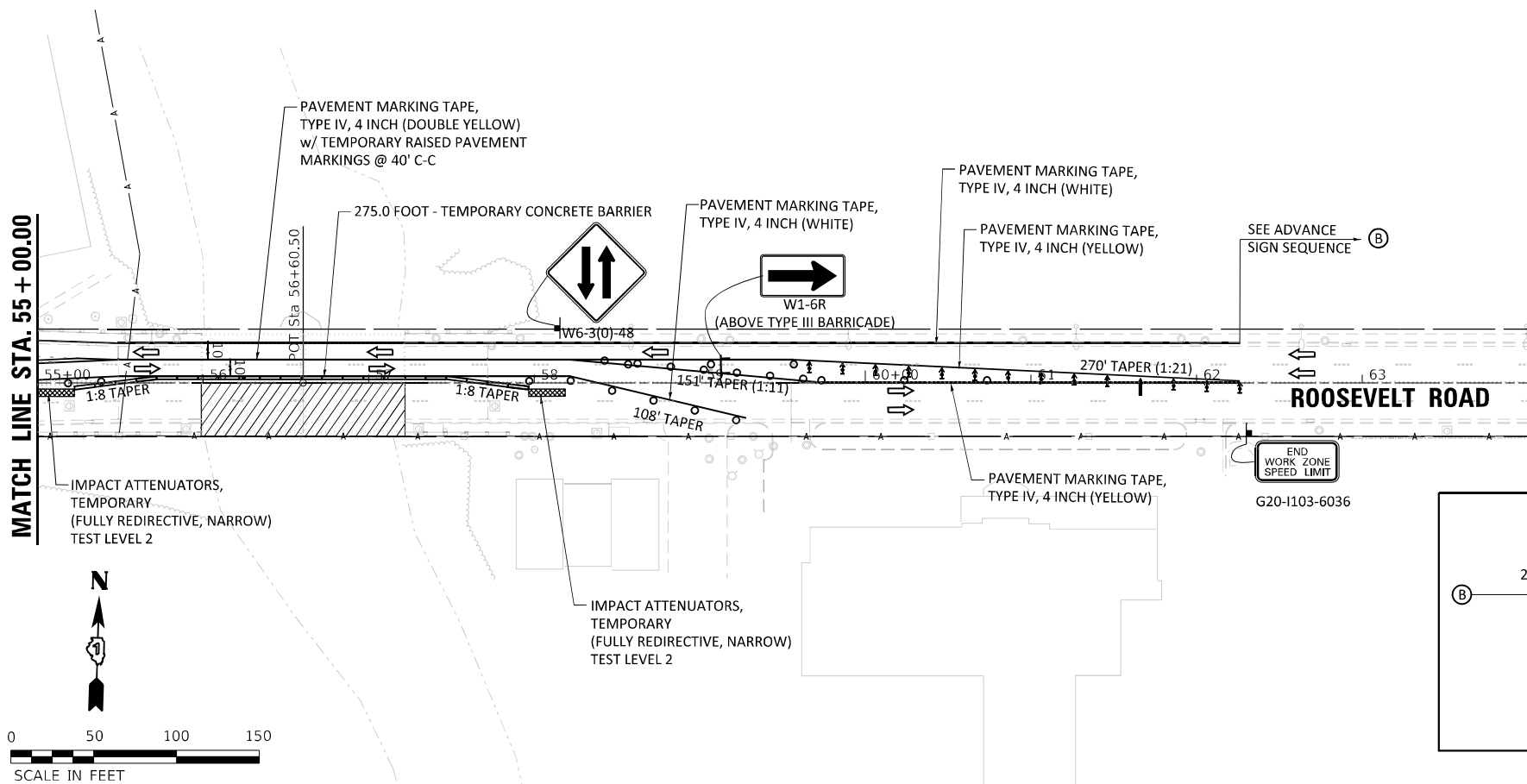
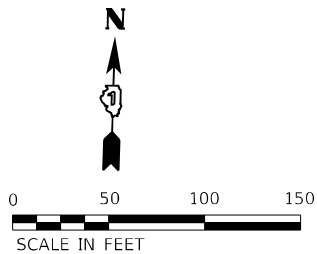
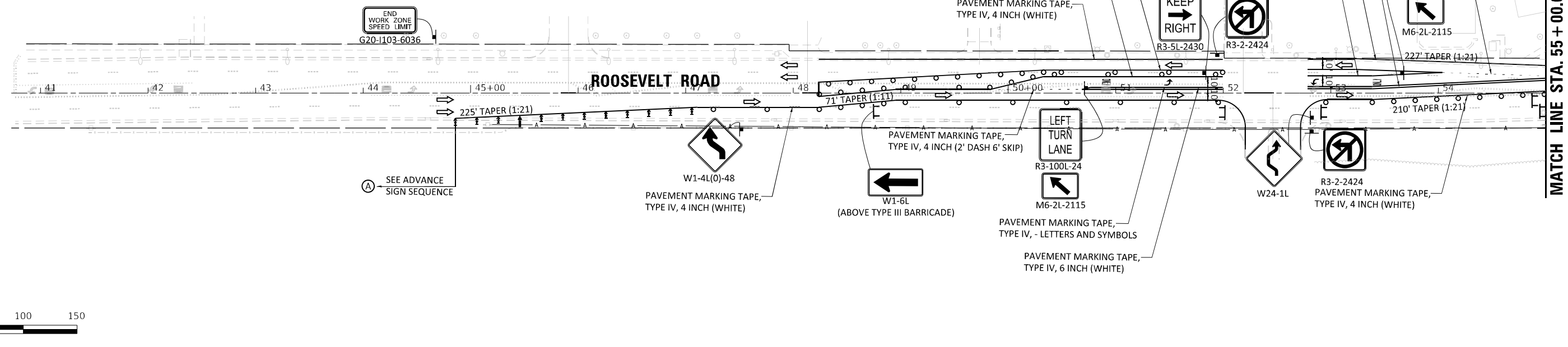
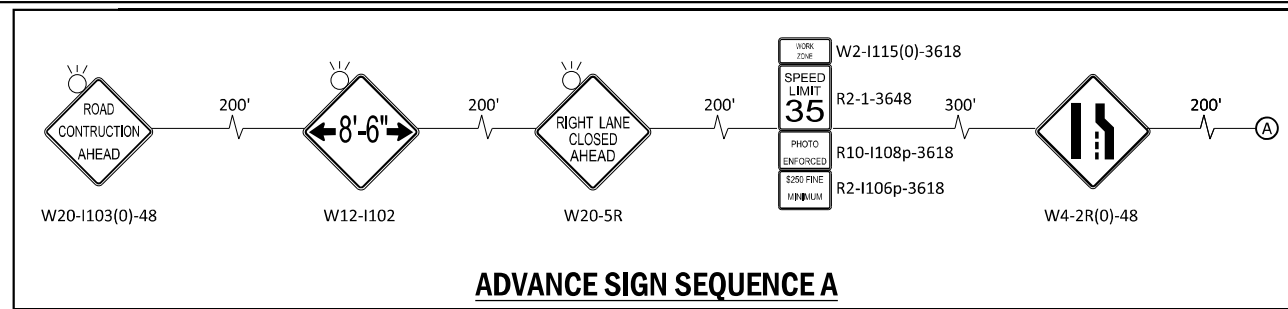
**MAINTENANCE OF TRAFFIC – STAGE I**  
(THRU CURBED SECTION)



**MAINTENANCE OF TRAFFIC – STAGE II**  
(THRU CURBED SECTION)

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	CHECKED - SDS	REVISED
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PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	11
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	

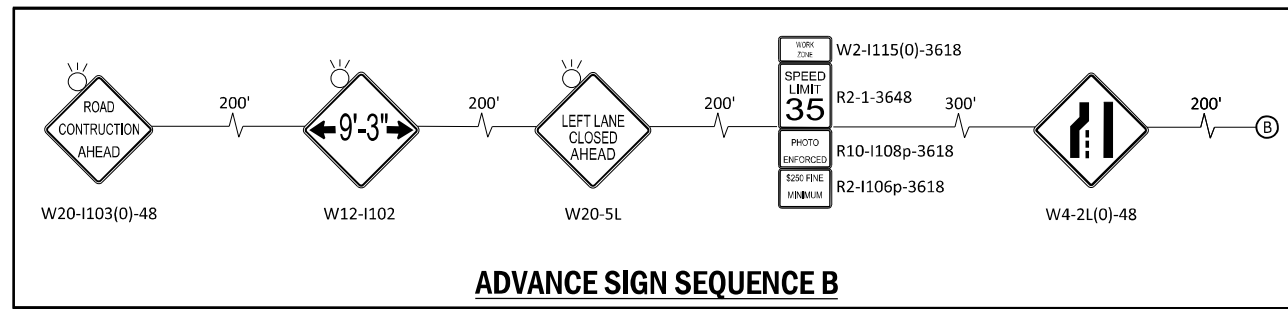


**TRAFFIC CONTROL AND STAGING LEGEND**

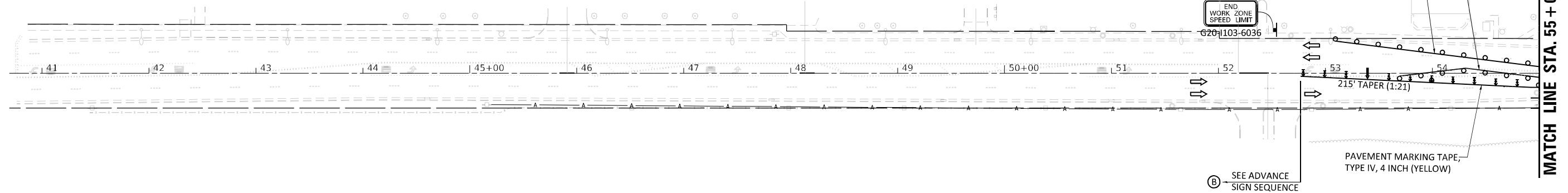
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT AND 20 FT CENTERS ALONG TANGENT
- ↑ DIRECTION INDICATOR BARRICADES @ 20' C-C WITH STEADY BURN LIGHTS
- ⊥ TYPE III BARRICADES WITH FLASHING BURNING LIGHTS
- ▨ WORK AREA
- ↑ ARROW BOARD
- ⊥ SIGN
- ▨ IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2
- TEMPORARY CONCRETE BARRIER WALL WITH DOUBLE SIDED TYPE C CRYSTAL MARKERS

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PLOT SCALE = 1/200,0000' / ft.	CHECKED - SDS	REVISED
PLOT DATE = 1/12/2021	DRAWN - GSI	REVISED
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F.A.P. RTE. 347	SECTION 202-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 12
CONTRACT NO. 62M40				
ILLINOIS FED. AID PROJECT				

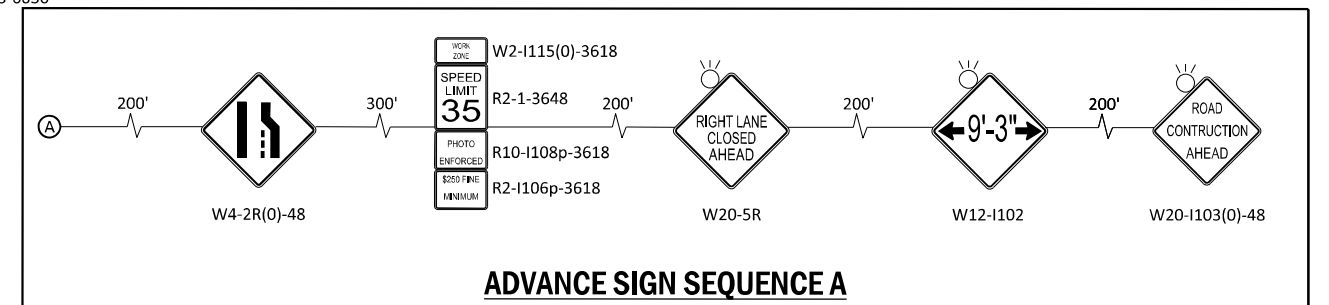
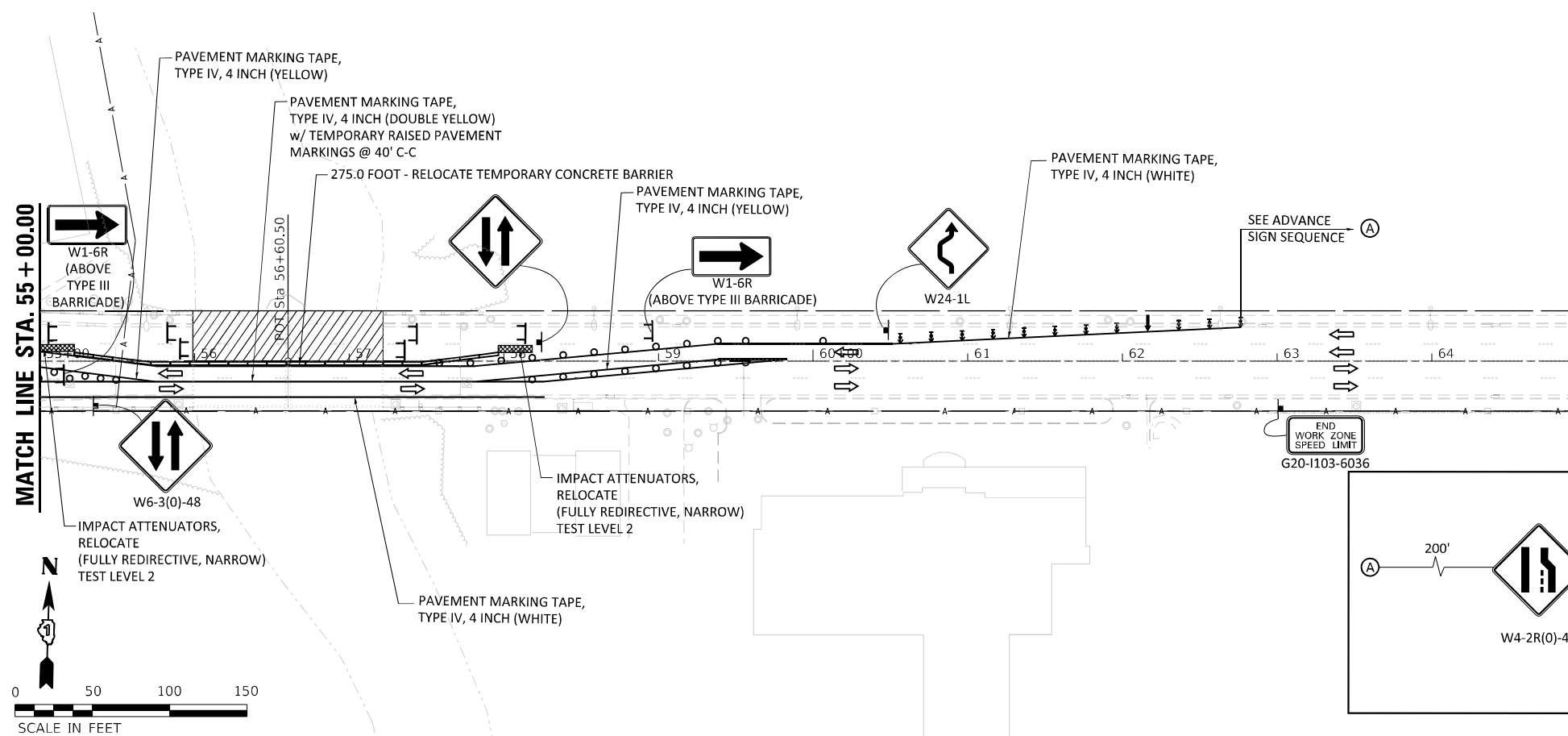


**ADVANCE SIGN SEQUENCE B**



**TRAFFIC CONTROL AND STAGING LEGEND**

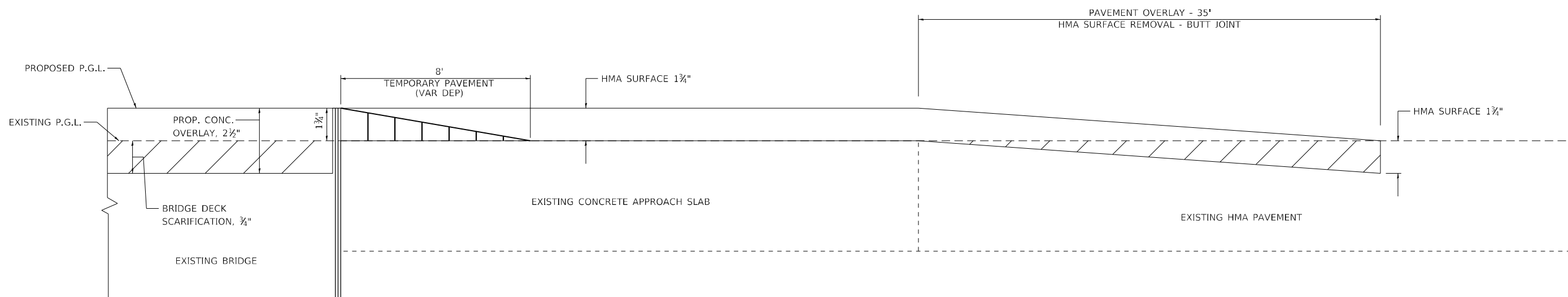
- TYPE II BARRICADE OR DRUMS @ 50 FT CENTERS ALONG TANGENT AND 20 FT CENTERS ALONG TANGENT
- ⚡ DIRECTION INDICATOR BARRICADES @ 20' C-C WITH STEADY BURN LIGHTS
- ⌚ TYPE III BARRICADES WITH FLASHING BURNING LIGHTS
- ▨ WORK AREA
- ↑ ARROW BOARD
- ⌚ SIGN
- ▨ IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2
- TEMPORARY CONCRETE BARRIER WALL WITH DOUBLE SIDED TYPE C CRYSTAL MARKERS



**ADVANCE SIGN SEQUENCE A**

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PLOT DATE = 1/12/2021	DRAWN - GSI	REVISED
	CHECKED - RKA	REVISED

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 13
CONTRACT NO. 62M40				
ILLINOIS FED. AID PROJECT				



**PAVEMENT OVERLAY DETAIL**

STA. 55+14.00 TO STA. 55+99.00  
 STA. 57+22.00 TO STA. 58+07.00

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design firm  
 no. 184001036



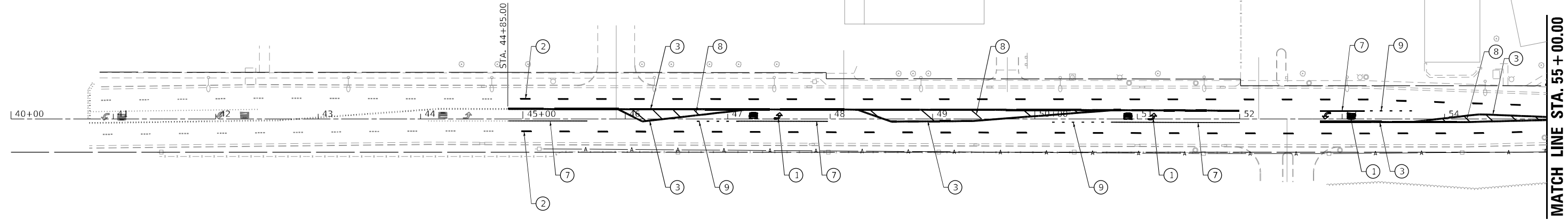
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

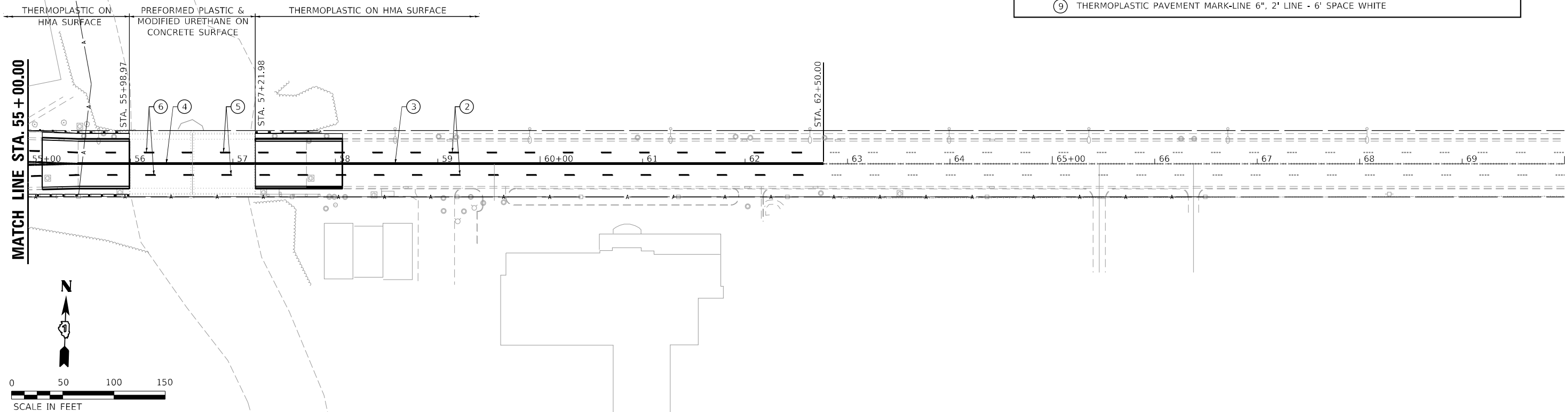
**PAVEMENT OVERLAY DETAIL  
 ROOSEVELT ROAD OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	14
		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
  - ② THERMOPLASTIC PAVEMENT MARK-LINE 4", WHITE (10' DASH-30' SKIP)
  - ③ THERMOPLASTIC PAVEMENT MARK-LINE 4", YELLOW (DOUBLE SOLID 11" C-C)
  - ④ MODIFIED URETHANE PAVEMENT MARK-LINE 4", YELLOW (DOUBLE SOLID 11" C-C)
  - ⑤ PREFORMED PLASTIC PAVEMENT MARK, TYPE B-INLAID-LINE 7" WHITE (10' DASH-30' SKIP)
  - ⑥ GROOVING FOR RECESSED PAVEMENT MARK 8"
  - ⑦ THERMOPLASTIC PAVEMENT MARK-LINE 6", WHITE
  - ⑧ THERMOPLASTIC PAVEMENT MARK-LINE 12", YELLOW
  - ⑨ THERMOPLASTIC PAVEMENT MARK-LINE 6", 2' LINE - 6' SPACE WHITE



Design firm  
no. 184001036  
**whks**  
engineers • planners • land surveyors

USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 1200.0000' / ft.	DRAWN - GSI	REVISED
PLOT DATE = 1/12/2021	CHECKED - RKA	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
ROOSEVELT ROAD OVER DES PLAINES RIVER**

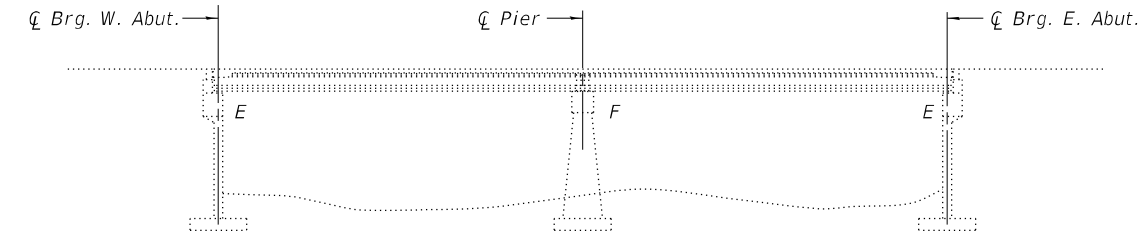
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	202-159-BR	COOK	41	15
CONTRACT NO. 62M40				
ILLINOIS FED. AID PROJECT				

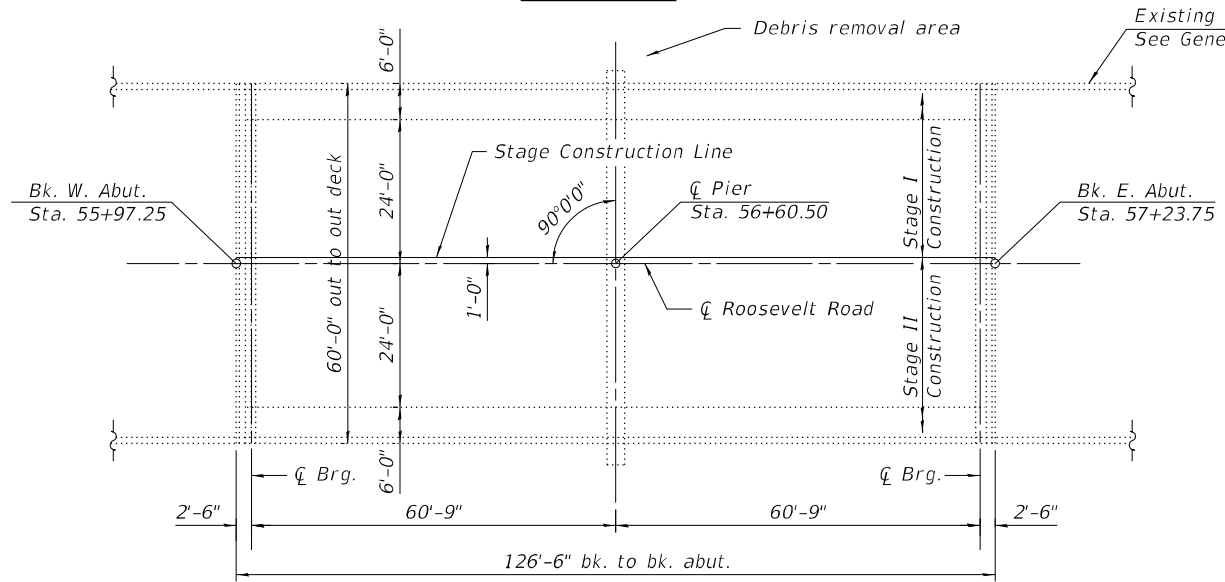
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**Existing Structure:** The existing structure's original construction year is unknown. The structure was widened in 1928 as S.B.I. Route 6, Section F-1, and the superstructure was replaced in 1986 as F.A. 567, Section JR-WRS. The structure is a two span continuous bridge with reinforced concrete deck supported on nine 36" PPC I-beams, closed concrete abutments, and a solid pier all on spread footing foundations. The structure measures 126'-6" back to back of abutments and 60'-0" out to out of bridge deck. Two lanes of traffic shall be maintained on Roosevelt Road by utilizing stage construction.

**Salvage:** None



**ELEVATION**



**PLAN**

**GENERAL NOTES**

- 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during the concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.
- The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the floor drains.
- Accessible portions of the steel components (top bearing plate, upper embedded plate, side retainers, fastening components, etc.) of the bearings at the abutments shall be cleaned and painted. Cost included with Cleaning and Painting Bearings.
- Portions of the existing guardrail will need to be temporarily removed and reinstalled to facilitate the expansion joint replacement. Removal and reinstallation of portions of the existing guardrail shall be included in the cost of Concrete Removal. Existing hardware that is corroded or damaged and cannot be reused shall be replaced in-kind and paid for according to Article 109.04 of the Standard Specifications. Any damage to the guardrail caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

**INDEX OF SHEETS**

- General Plan and Elevation
- General Details
- Deck Repair Plan
- Joint Reconstruction Details
- Joint Reconstruction Details
- 8. Preformed Joint Strip Seal - Sidewalk
- Bar Splicer Assembly and Mechanical Splicer Details
- Abutment Repair Details
- 20. Existing Plans (For Information Only)

**SCOPE OF WORK**

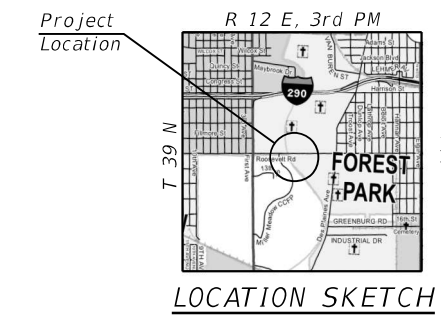
- Remove and replace existing expansion joints at both abutments.
- Scarify bridge deck 3/4" and install 2 1/2" Latex Concrete Overlay. Perform deck slab repairs as required.
- Perform Structural Repair of Concrete at both abutments.
- Apply Protective Coat.
- Clean and paint bearings at abutments.
- Furnish and install stream gauge at west abutment.
- Remove debris in channel at north end of pier as directed by the Engineer.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	10.4
Concrete Superstructure	Cu. Yd.	10.9
Bridge Deck Grooving	Sq. Yd.	628
Protective Coat	Sq. Yd.	900
Reinforcement Bars, Epoxy Coated	Pound	1830
Bar Splicers	Each	12
Preformed Joint Strip Seal	Foot	116
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	649
Bridge Deck Scarification, 3/4"	Sq. Yd.	649
Structural Repair of Concrete (Depth Equal to or Less than 5 in.)	Sq. Ft.	82
Structural Repair of Concrete (Depth Greater than 5 in.)	Sq. Ft.	7
Cleaning and Painting Bearings	Each	18
Stream Gauge	Each	1
Debris Removal	Cu. Yd.	30



*CHAD E. HODEL*  
1-11-21  
Expires: 11/30/2022



**GENERAL PLAN AND ELEVATION  
F.A.P. ROUTE 347 (ROOSEVELT ROAD)  
OVER DES PLAINES RIVER  
PUBLIC WATERS  
SECTION 2020-159-BR  
COOK COUNTY  
STRUCTURE NO. 016-0472**



DESIGN FIRM no. 18400/036	USER NAME = dtheberling	DESIGNED - CEH	REVISED
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

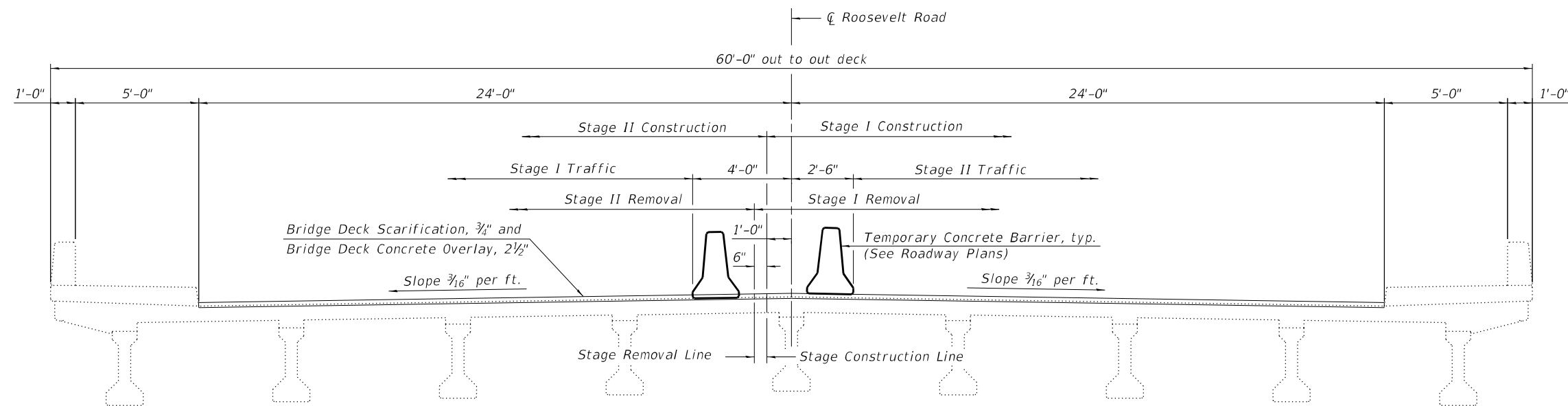
SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 16
CONTRACT NO. 62M40			NHP-39KM(60)	

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT



LAST SAVED DATE: 2/23/2021



**CROSS SECTION**  
(Looking East)

**Stream Gauge Notes:**

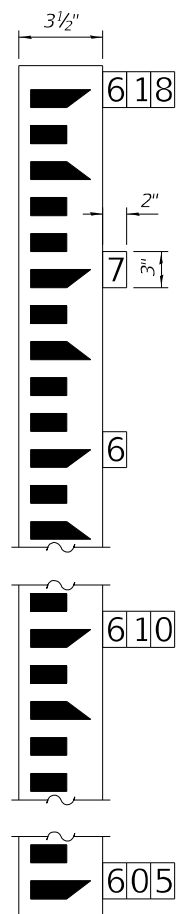
The gauge plates shall be porcelain enameled iron plate graduated in feet and tenths, unnumbered, and 3 1/2" wide. Gauge plates shall be WaterMark Style "E" or approved equivalent.

Each individual number plate should be a block numeral on 2" x 3" white porcelain enameled iron plate. Number plates shall be WaterMark Style "E" or equivalent.

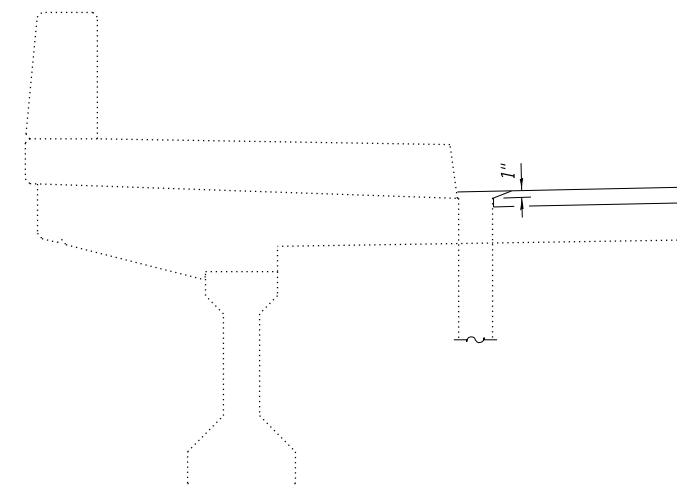
Both gauge plates and number plates shall be fastened directly to the abutment with a 1/4" diameter, 1 1/2" long masonry screw with a hex washer head.

Three digit elevations to be installed at elevations 605, 610, 618. At all of the other whole elevations, place the last digit as shown in the example to the right.

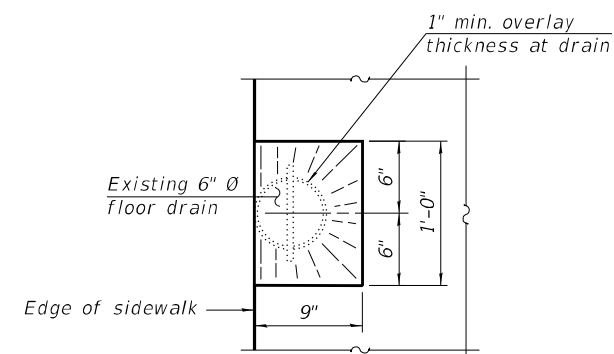
See sheet 10 of 20 for mounting locations.



**STREAM GAUGE DETAIL**

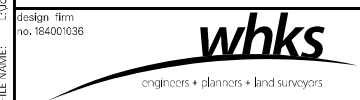


**SECTION AT DRAINS**



**OVERLAY TREATMENT AT DRAINS**  
(12 drains total)

FILE NAME: L:\Jobs\DOT\_D-18\933 P 189-010 V18\933 1-4 Roosevelt Rd (WO-28)\CADD\CAD\_Sheets\0160472-xxxx.dgn



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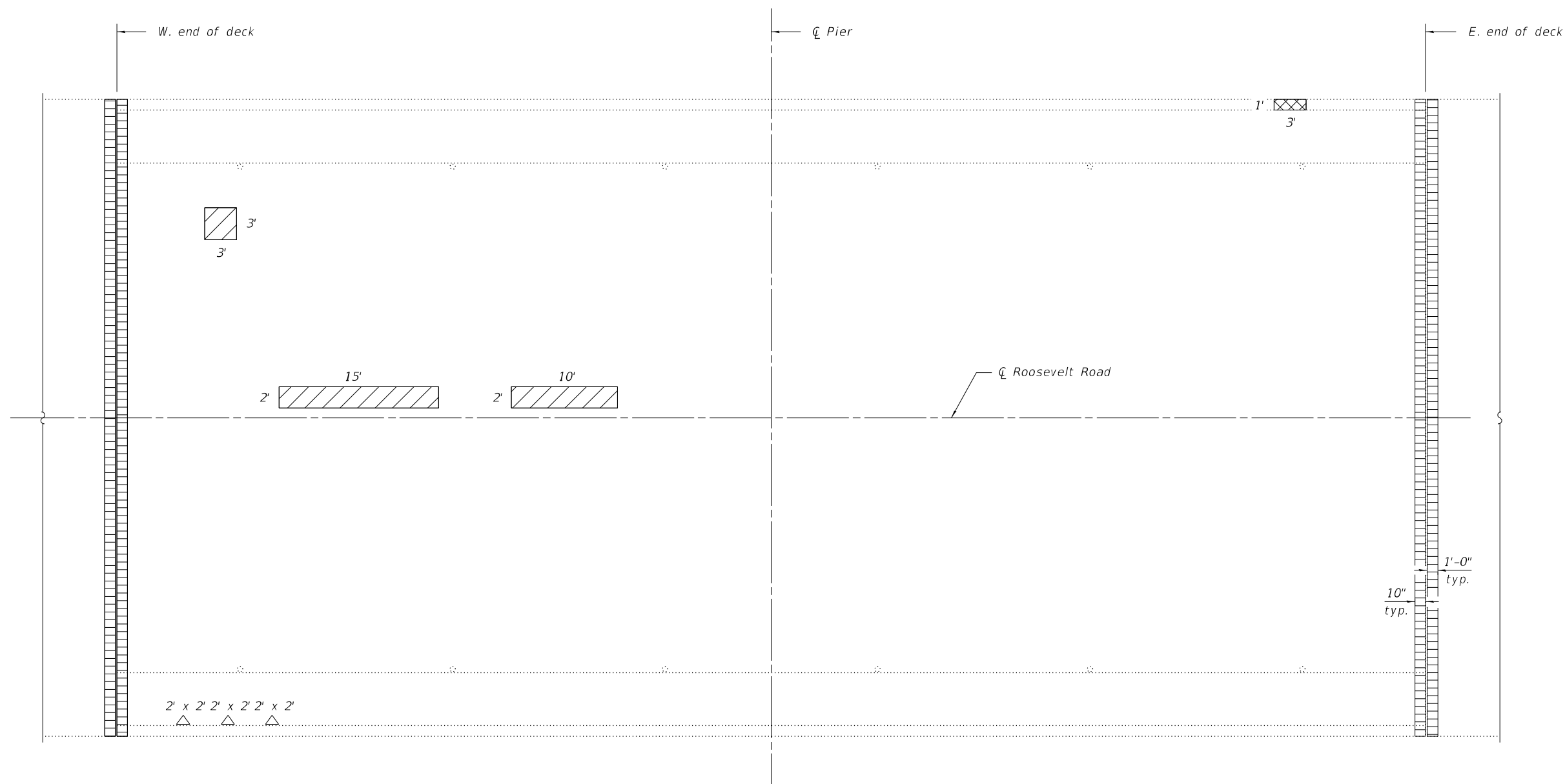
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DETAILS**  
**STRUCTURE NO. 016-0472**

SHEET NO. 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	17
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40	
			NHPP-39KM601	

LAST SAVED DATE: 2/23/2021 10:15:14 AM



**DECK REPAIR PLAN**

**Notes:**

1. Deck Slab Repair (Partial) locations and quantities shown are for information only and will not be measured for payment but shall be included in the cost of Bridge Deck Latex Concrete Overlay. See special provision for Bridge Deck Latex Concrete Overlay.
2. For expansion joint reconstruction details, see sheets 4 thru 6.
3. For Stage Construction Scheme, see sheet 2.
4. Portions of the existing railings may need to be temporarily removed and reinstalled to facilitate concrete repairs. Removal and reinstallation of portions of the existing railings shall be included in the cost of Structural Repair of Concrete. Existing hardware that is corroded or damaged and cannot be reused shall be replaced in-kind and paid for according to Article 109.04 of the Standard Specifications. Any damage to the railing caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.
5. The Contractor is advised that the south parapet contains conduit with junction boxes located at each end of the barrier (see parapet details in existing plans for additional information). The Contractor shall take proper precautions to protect the utility from damage during concrete removal and replacement and remount the junction box according to the as-built condition. Cost include with Concrete Superstructure. Any damage to the utility caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the utility owner.

**LEGEND:**

- Deck Slab Repair (Partial) (6.6 Sq. Yds., estimated. See Note 1)
- Structural Repair of Concrete (Depth > 5 in.)
- Structural Repair of Concrete (Depth ≤ 5 in.)
- Expansion Joint Reconstruction Limits

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 in.)	Sq. Ft.	12
Structural Repair of Concrete (Depth Greater Than 5 in.)	Sq. Ft.	3

FILE NAME: L:\Jobs\DOT\_D-118\753 P/B 189-010 VV8\93\_1-Roosevelt Rd (WO-28)\CAD\CAD\_Sheets\0160472-xxxx.dgn

Design Firm  
no. 18400/036



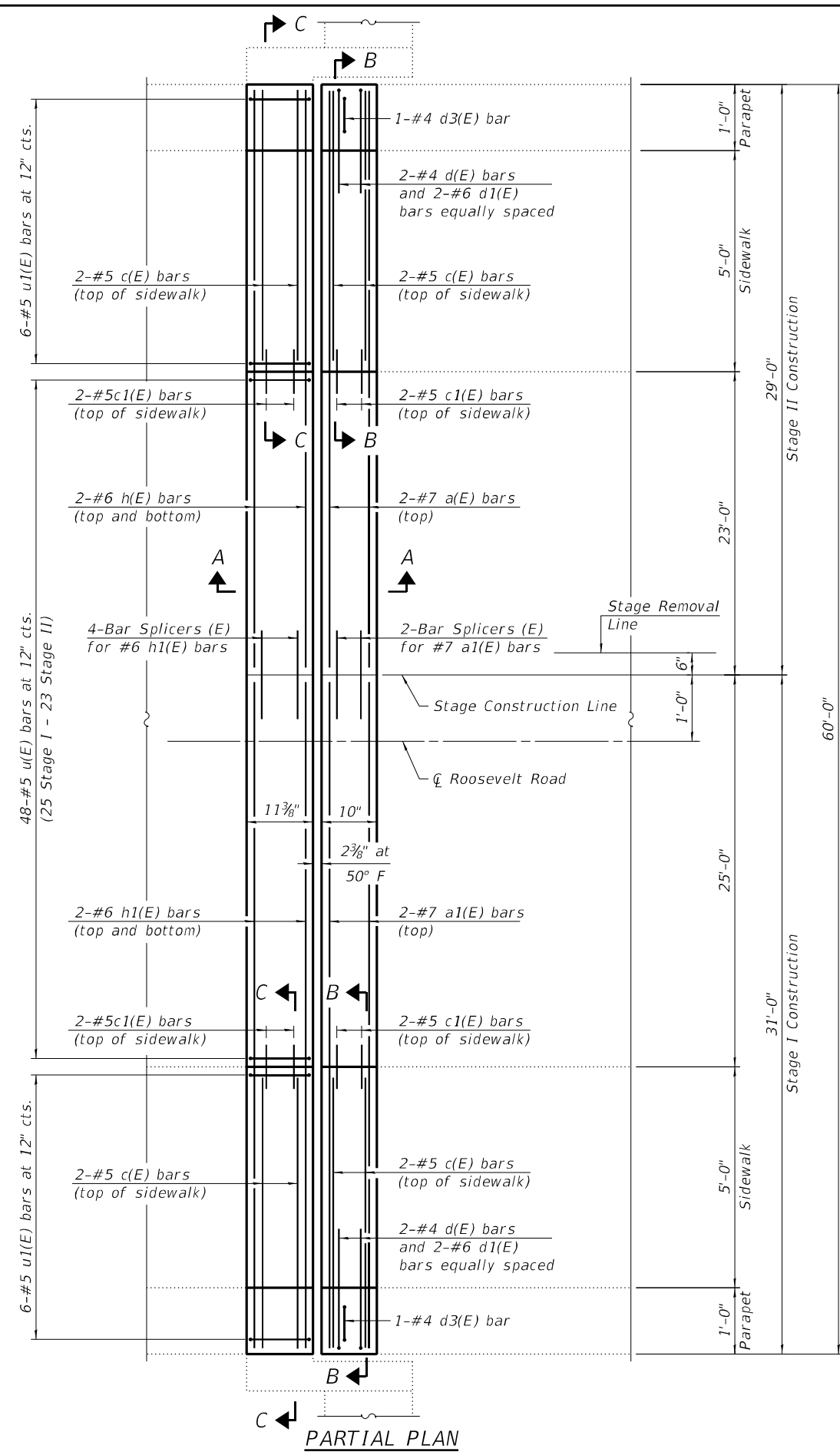
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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIR PLAN  
STRUCTURE NO. 016-0472**

SHEET NO. 3 OF 20 SHEETS

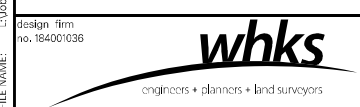
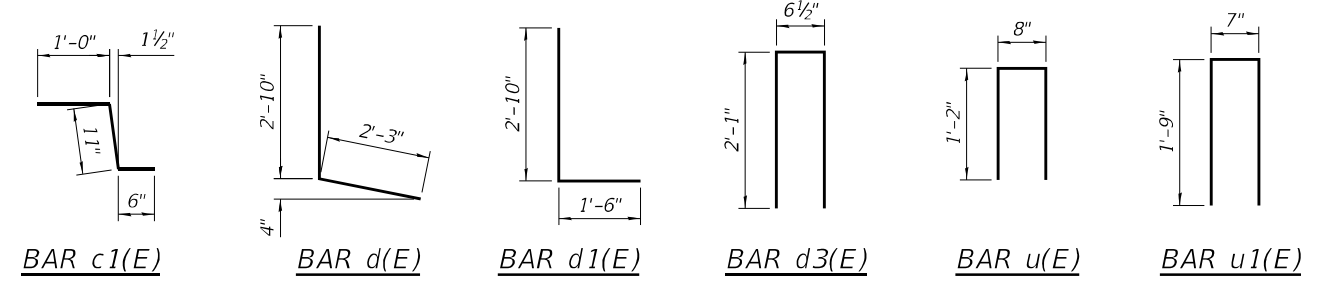
F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 18
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40	
NPPP-39KM601				



Note:  
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	4	#7	28'-6"	—
a1(E)	4	#7	30'-6"	—
c(E)	16	#5	5'-8"	—
c1(E)	16	#5	2'-5"	┘
d(E)	8	#4	5'-1"	┘
d1(E)	8	#6	4'-4"	┘
d3(E)	4	#4	4'-9"	┘
h(E)	8	#6	28'-9"	—
h1(E)	8	#6	30'-9"	—
u(E)	96	#5	3'-0"	┘
u1(E)	24	#5	4'-1"	┘
Concrete Superstructure			Cu. Yd.	10.9
Reinforcement Bars, Epoxy Coated			Pound	1830
Bar Splicers			Each	12



USER NAME = dheberling	DESIGNED - CEH	REVISED
FILE NAME = 0160472-xxxx.dgn	CHECKED - SBC	REVISED
PLOT SCALE = 0.2"/in.	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

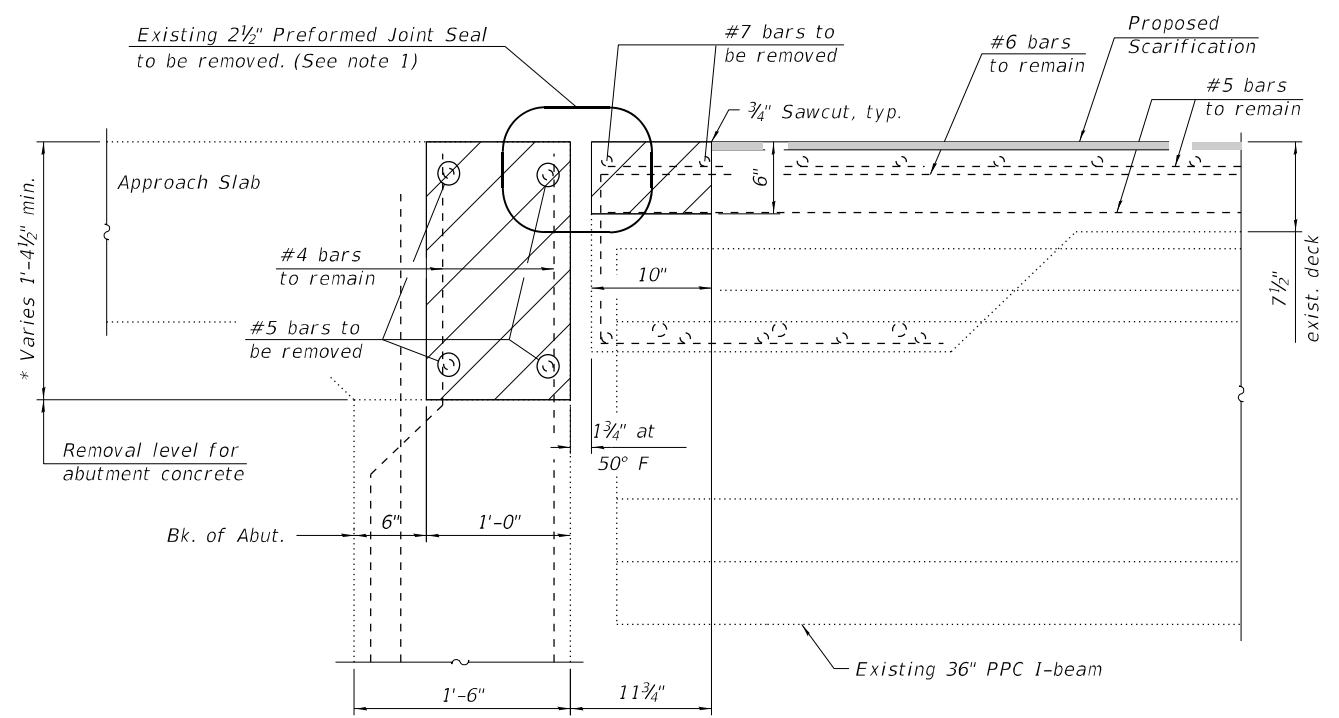
**JOINT RECONSTRUCTION DETAILS  
STRUCTURE NO. 016-0472**

SHEET NO. 4 OF 20 SHEETS

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 19
CONTRACT NO. 62M40			ILLINOIS FED. AID PROJECT	

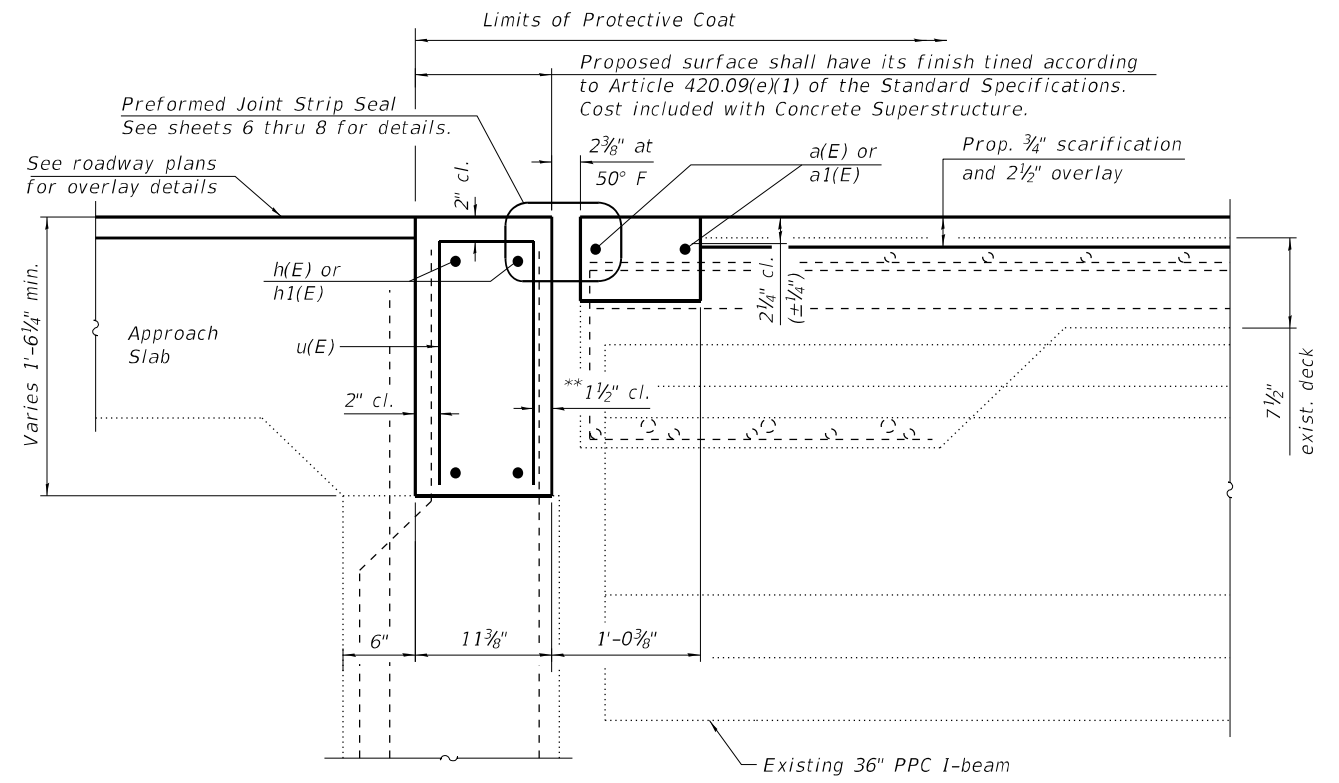
FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT | NPPP-39KM601

LAST SAVED DATE: 2/23/2021  
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 Design Firm: whks engineers • planners • land surveyors  
 FILE NO. 18400/036



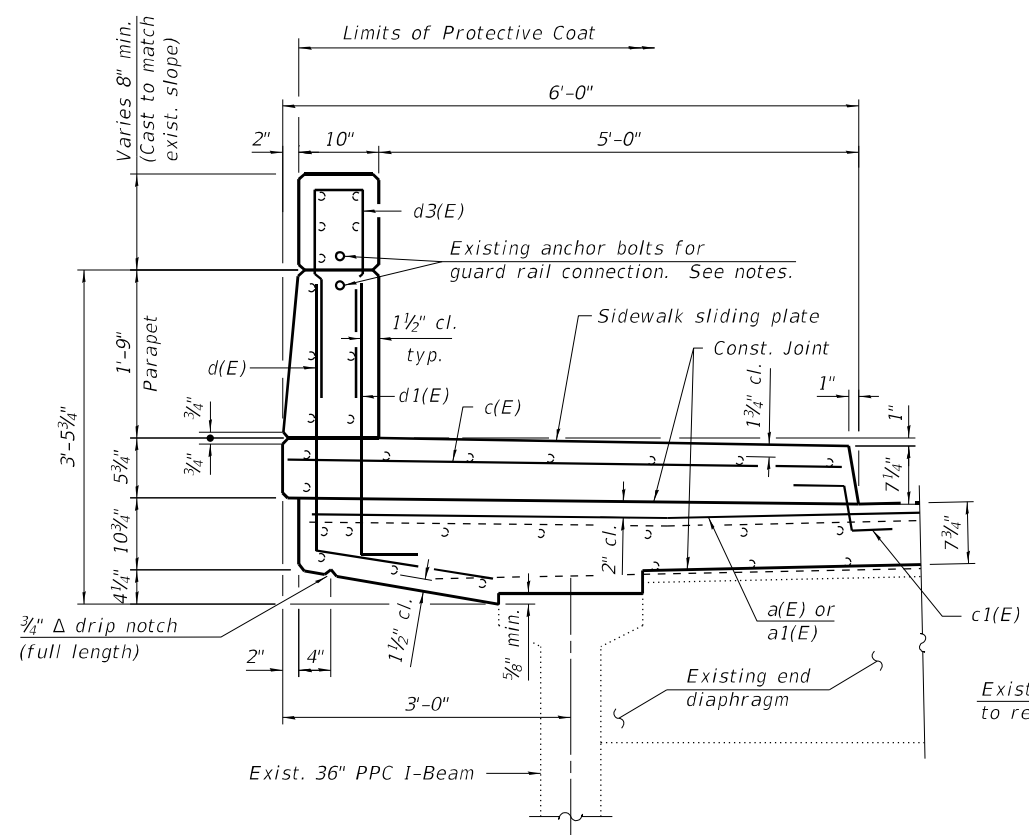
**SECTION A-A**  
(Showing Removal)

\* See attached existing plans for variable height information.



**SECTION A-A**  
(Showing Reinforcement)

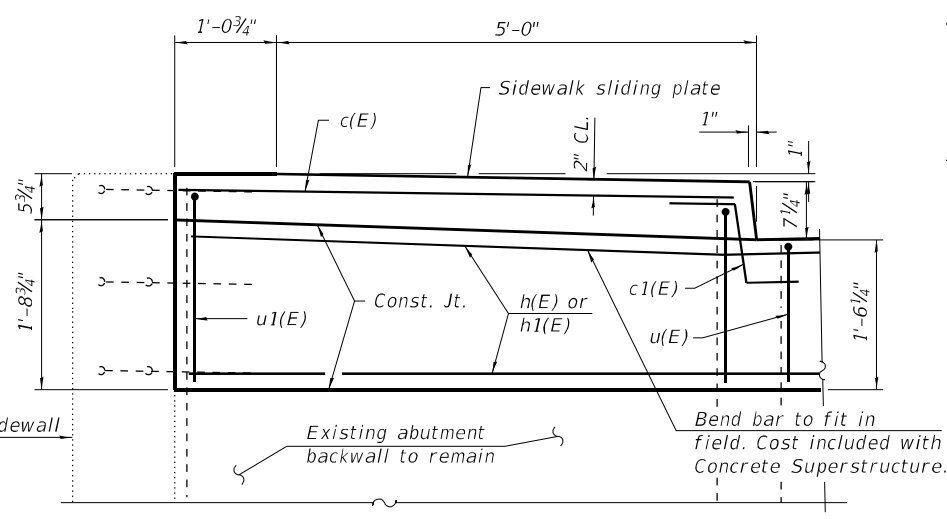
\*\* Existing vertical reinforcement bars may be bent slightly inward to produce adequate clearance.



**SECTION B-B**  
(Showing Reconstruction)

**LEGEND**

- Concrete Removal Limits (See note 2.)
- Proposed Scarification



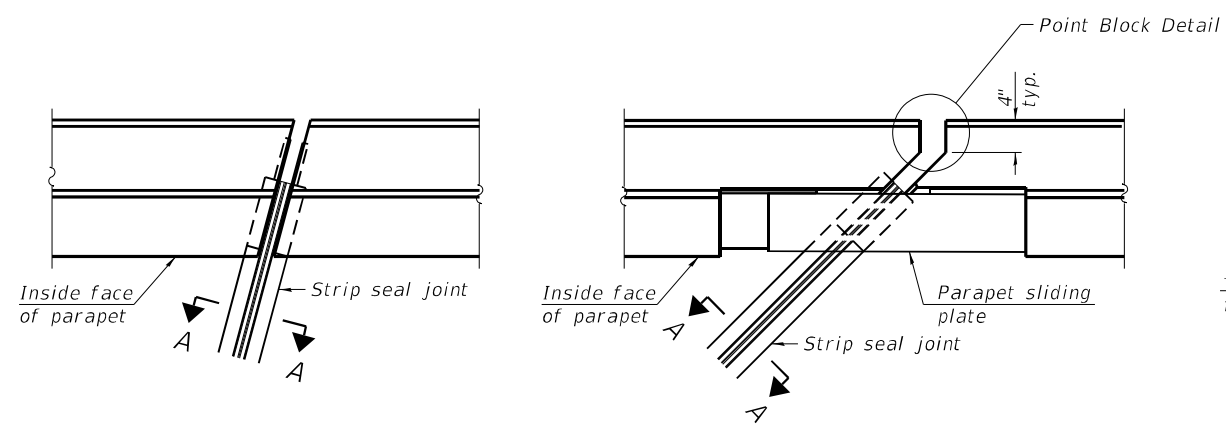
**SECTION C-C**  
(Showing Reconstruction)

**Notes:**

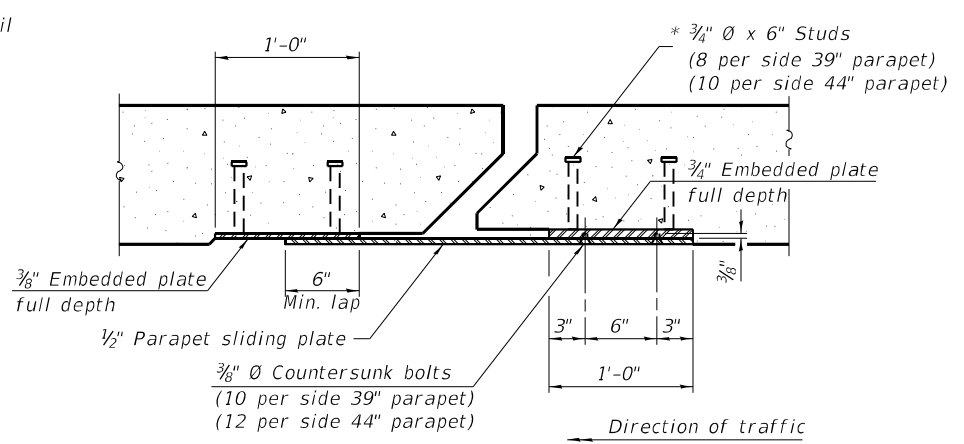
1. Removal and disposal of existing expansion joint shall be included with the cost of Concrete Removal.
2. The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-beams.
3. See existing plans for reinforcement bars not shown. Existing reinforcement bars extending into the removal areas that are not shown shall remain.
4. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during the concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.
5. Contractor shall use extreme care during concrete removal and joint reconstruction so as not to damage the existing anchor bolts shown in Section B-B so they may be used to reattach the guardrail. Any damage to the anchor bolts caused by the Contractor shall be repaired at the Contractor's expense to the satisfaction of the Engineer.

	USER NAME = dtheberling	DESIGNED - CEH	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>JOINT RECONSTRUCTION DETAILS</b> <b>STRUCTURE NO. 016-0472</b>	F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 20
	FILE NAME = 0160472-xxxx.dgn	CHECKED - SBC	REVISED			CONTRACT NO. 62M40				
PLOT SCALE = 0.2" = 1'-0"	DRAWN - DLH	REVISED		SHEET NO. 5 OF 20 SHEETS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NPPP-39KM601			
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED								

LAST SAVED DATE: 2/3/2021  
 FILE NAME: C:\pds\DOT\_D-118793\B-189-010 VWS913.1-Rosewell.Rd (WO-28)\CAD\CAD\_Sheets\0160472-xxxx.dgn  
 Design firm: whks  
 no. 18400/036  
 engineers • planners • land surveyors

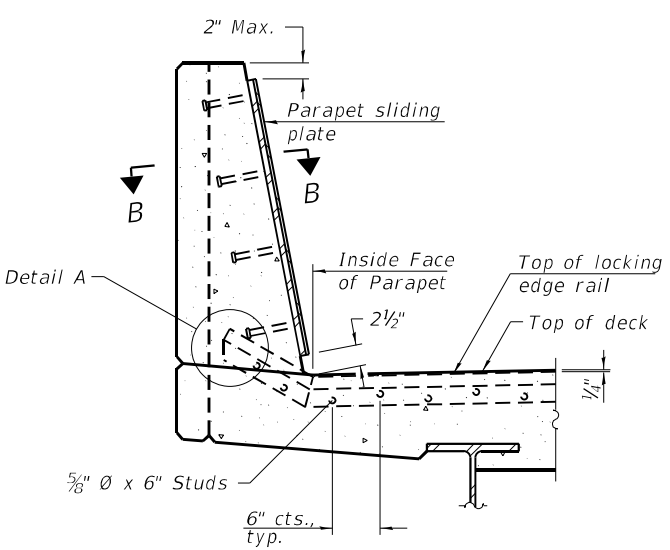


FOR SKEWS  $\leq 30^\circ$   
**PLAN AT PARAPET**

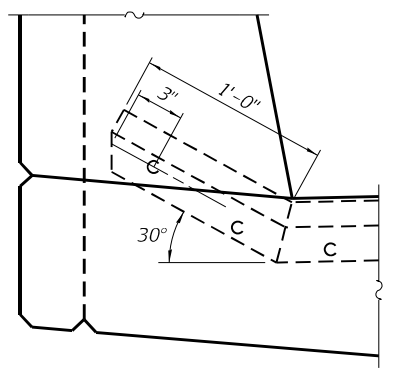


**SECTION B-B**

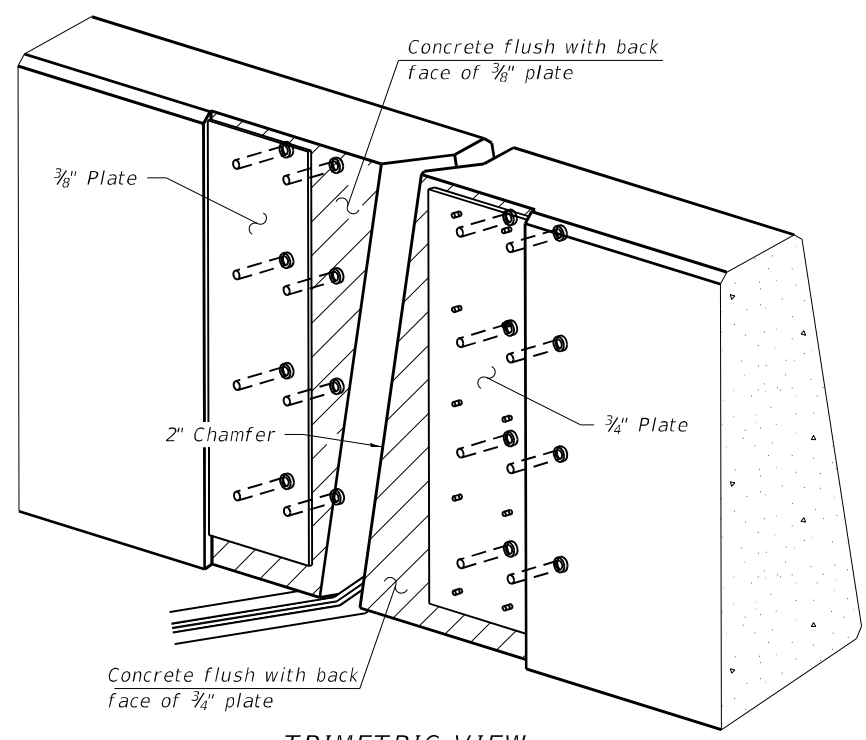
**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.  
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.  
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.  
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



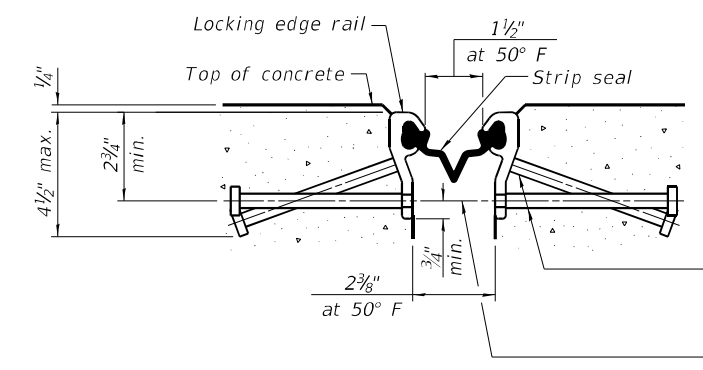
**SECTION AT PARAPET**  
 (Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL A**

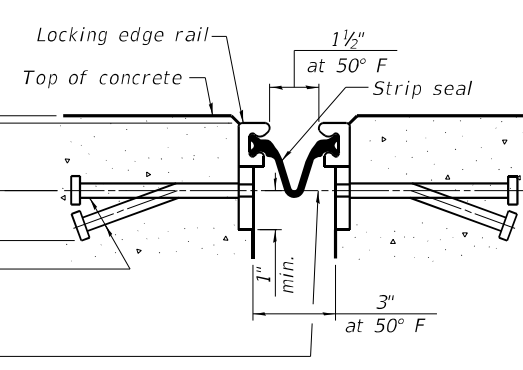


**TRIMETRIC VIEW**  
 (Showing embedded plates only)

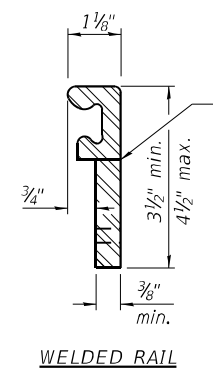
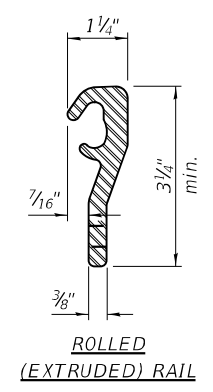


**SHOWING ROLLED RAIL JOINT**

\* 3/8"  $\phi$  x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8"  $\phi$  threaded rods in 1/16"  $\phi$  holes at  $\pm 4$ -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

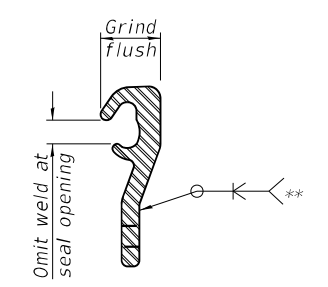


**SHOWING WELDED RAIL JOINT**



**LOCKING EDGE RAILS**

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



**LOCKING EDGE RAIL SPLICE**

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

**SECTION A-A**

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

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	116

EJ-SS-S 1-1-2020

(Sheet 1 of 3)

USER NAME = dheberling	DESIGNED - CEH	REVISED
FILE NAME = 0160472-xxxx.dgn	CHECKED - SBC	REVISED
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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

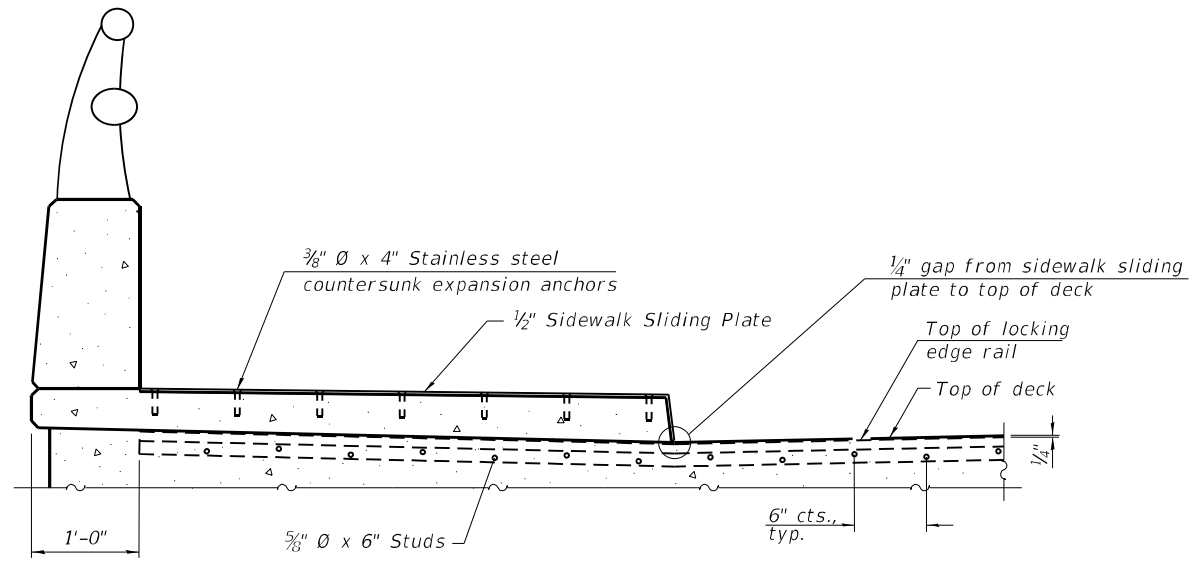
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
 STRUCTURE NO. 016-0472**

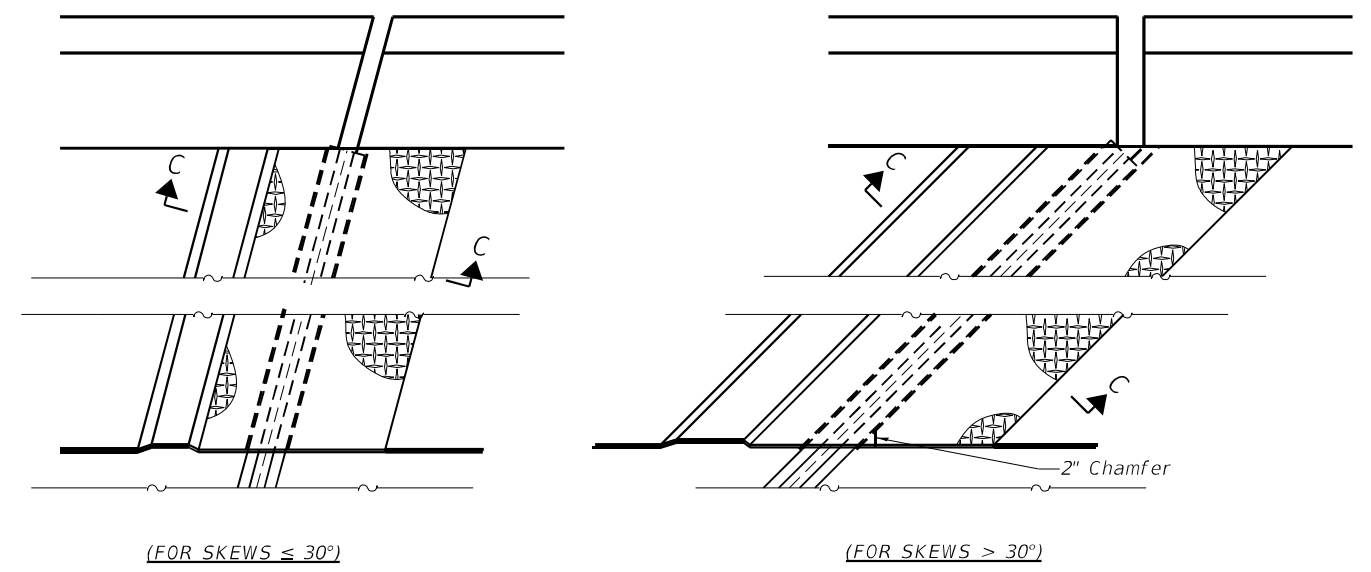
SHEET NO. 6 OF 20 SHEETS

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 21
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40 NPPP-39KM601	

LAST SAVED DATE: - STATUS/SAVED/DATES



**SECTION AT RAISED SIDEWALK**

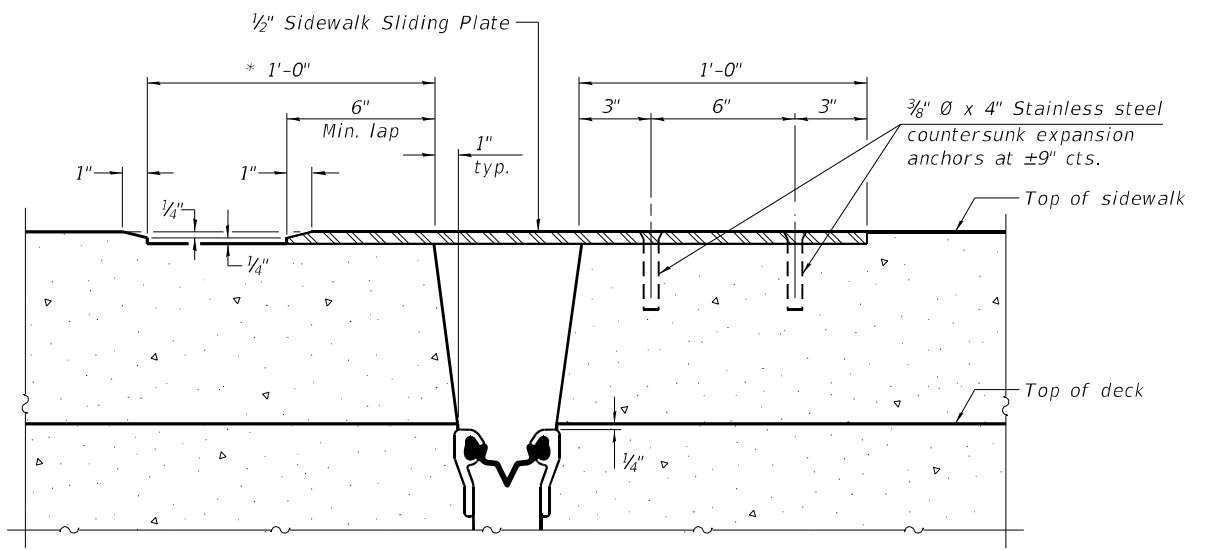


(FOR SKEWS ≤ 30°)

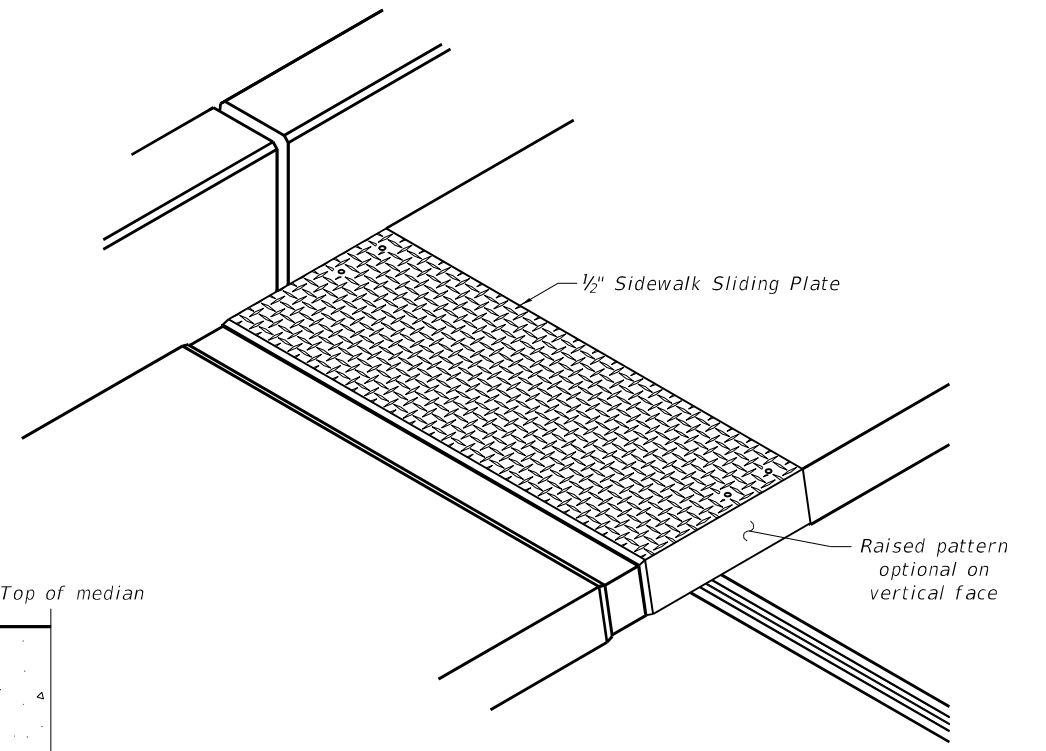
(FOR SKEWS > 30°)

**PLAN AT RAISED SIDEWALK**

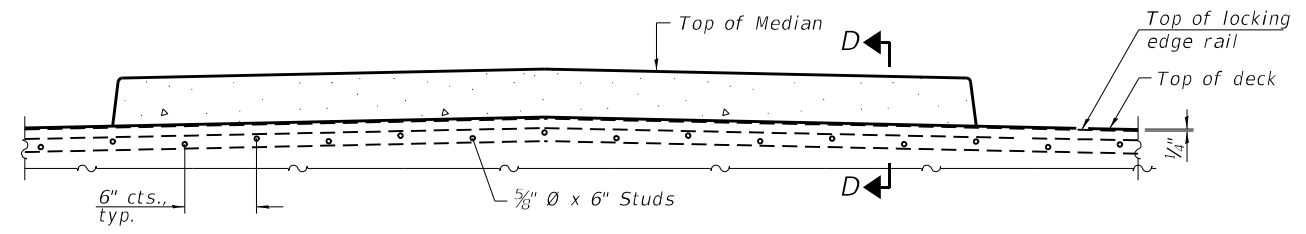
\* 10 3/8" at abutment backwall.



**SECTION C-C**

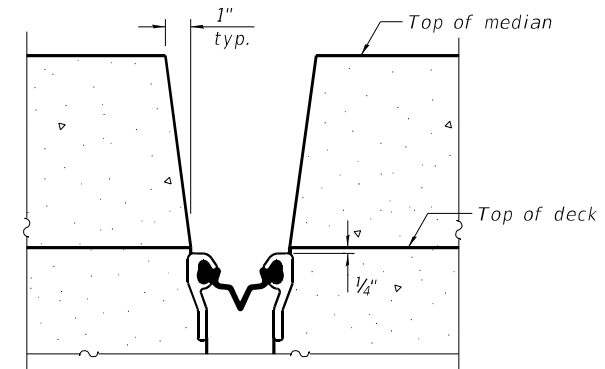


**TRIMETRIC VIEW**



**SECTION AT MEDIAN**

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. L's)

(Sheet 2 of 3)



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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

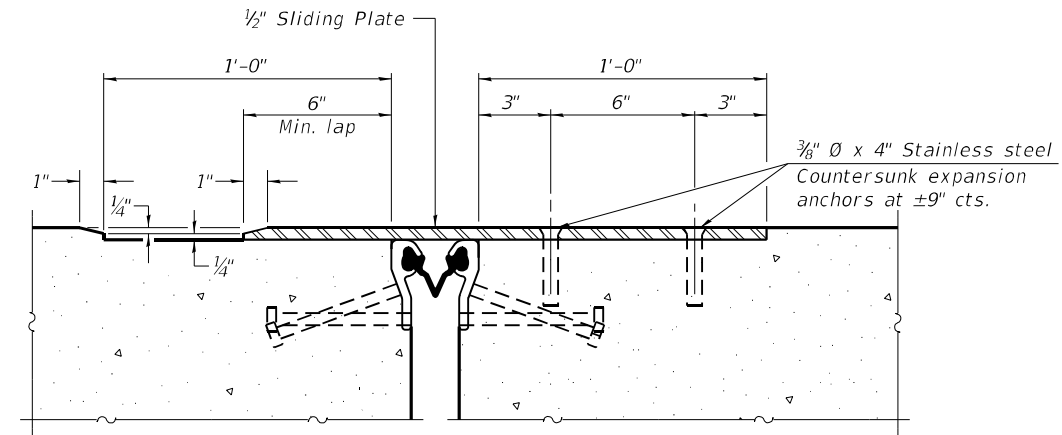
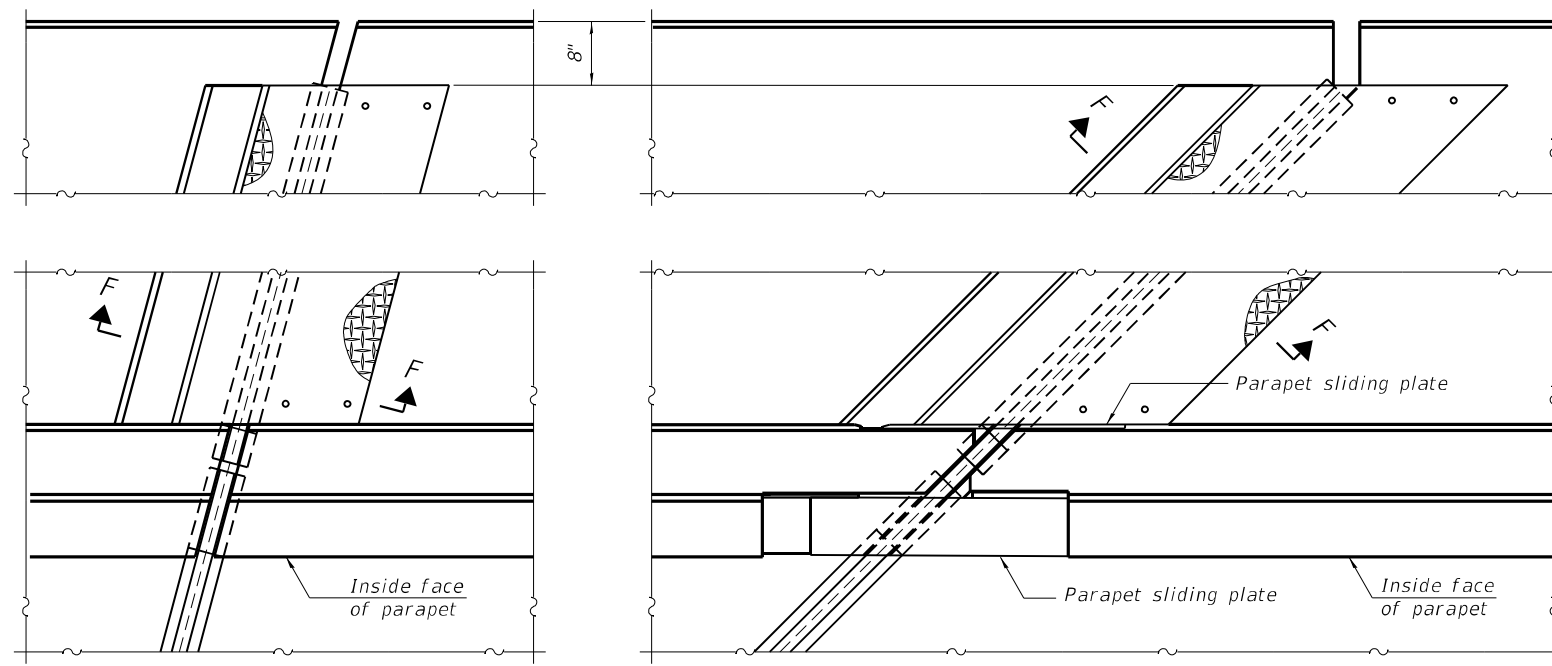
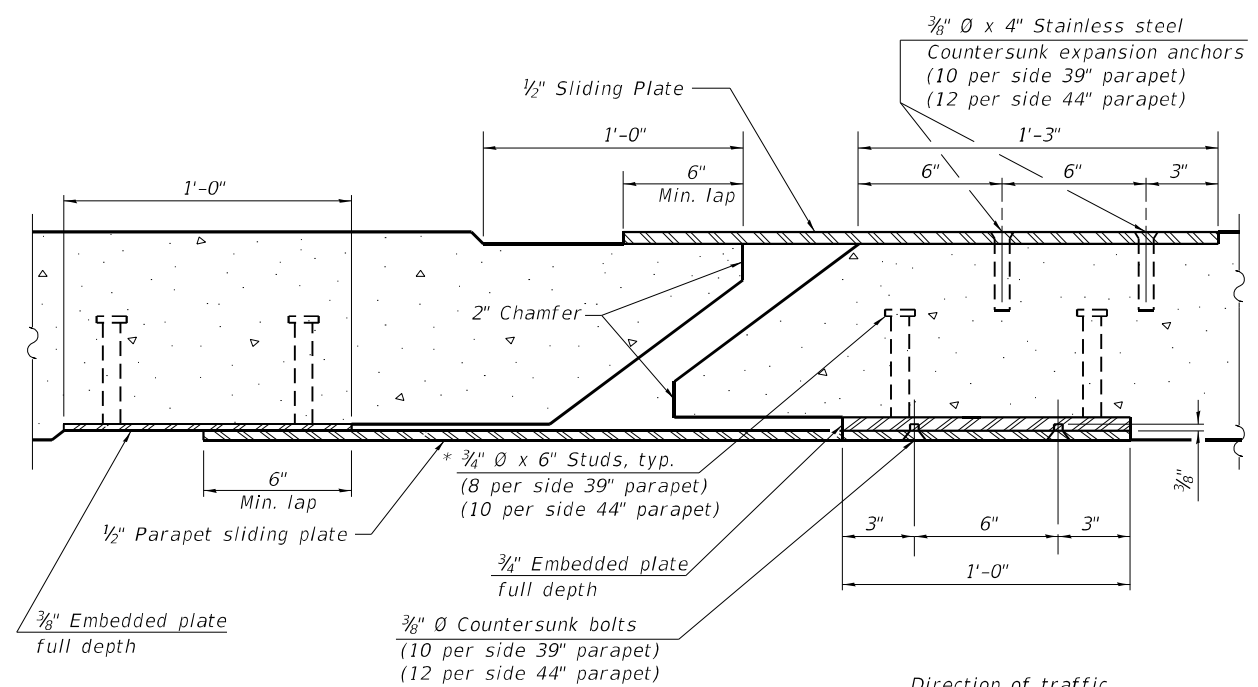
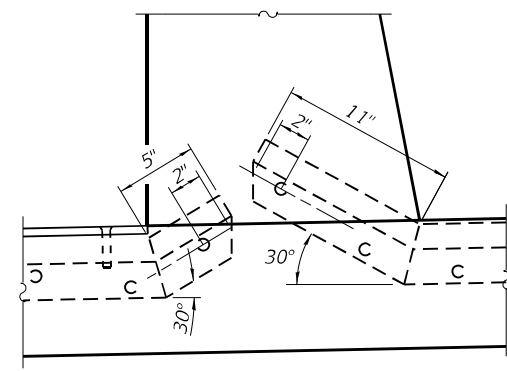
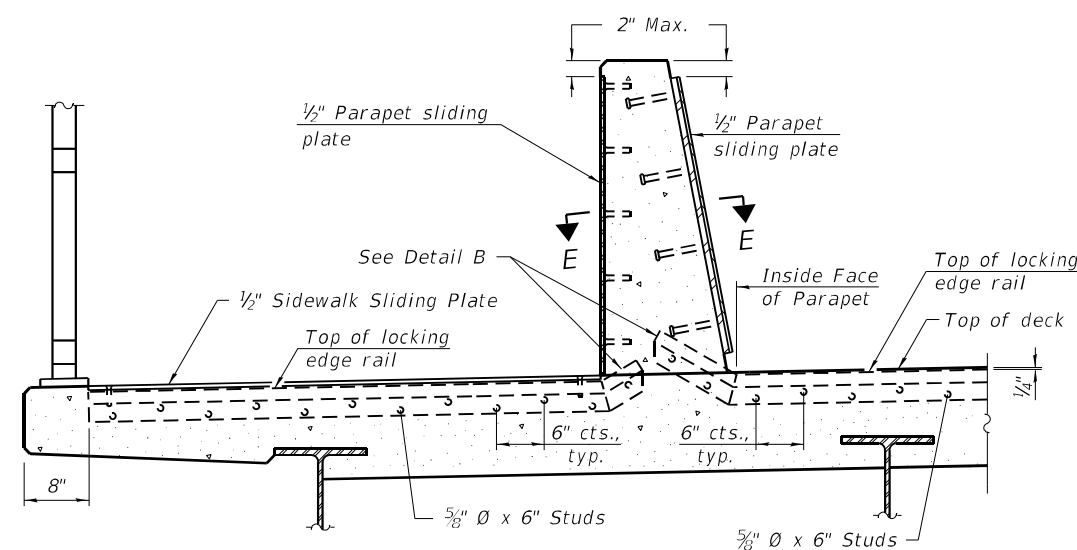
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK**  
**STRUCTURE NO. 016-0472**

SHEET NO. 7 OF 20 SHEETS

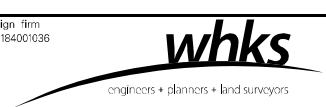
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40	
NHP-39KM601				

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EJ-SS-S 1-1-2020



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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

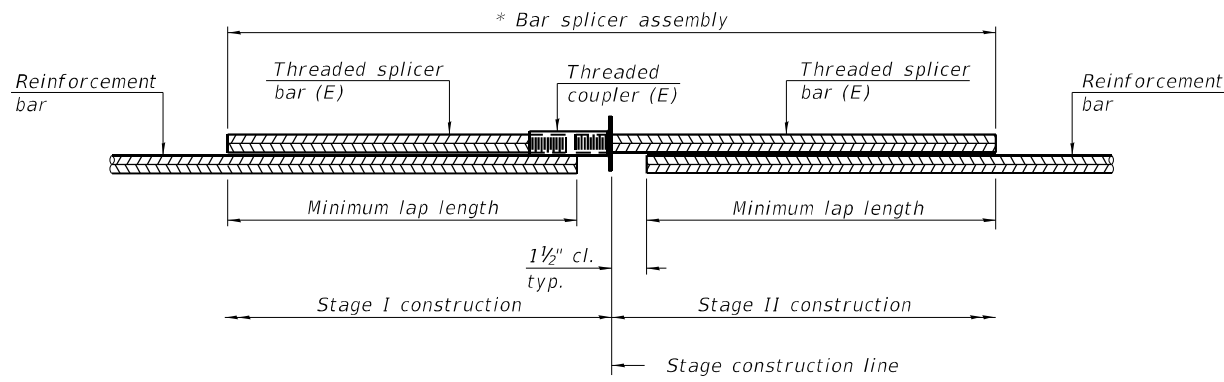
PREFORMED JOINT STRIP SEAL - SIDEWALK  
STRUCTURE NO. 016-0472

SHEET NO. 8 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	23
CONTRACT NO. 62M40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NHP-39KM601				

(Sheet 3 of 3)

LAST SAVED DATE: 2/15/2020 10:15:00 AM

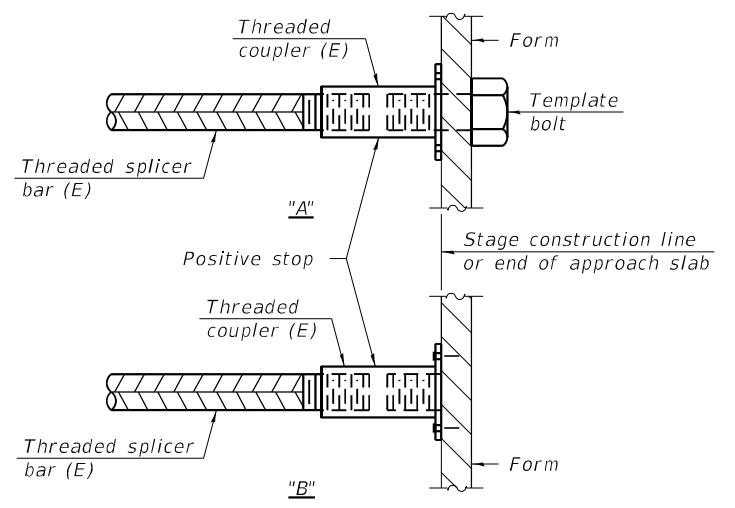


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

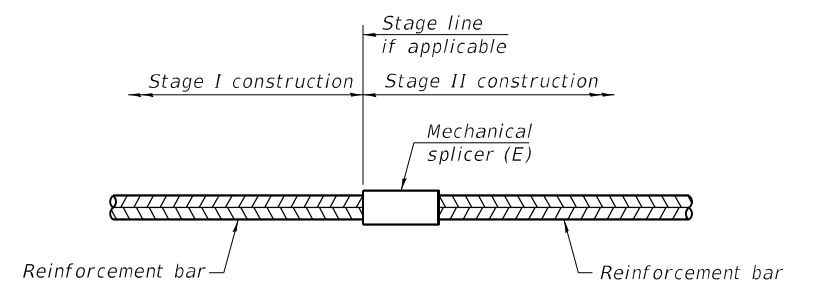
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#7	4	5'-2"
Abutments	#6	8	4'-5"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME: L:\Jobs\DOT\_D-18\93 P B 189-010 VV8793.14 Roosevelt Rd (WO-28)\CADD\CAD\_Sheets\0160472-xxxx.dgn

BSD-1

1-1-2020



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PLOT SCALE = 0.2"/1" in.	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

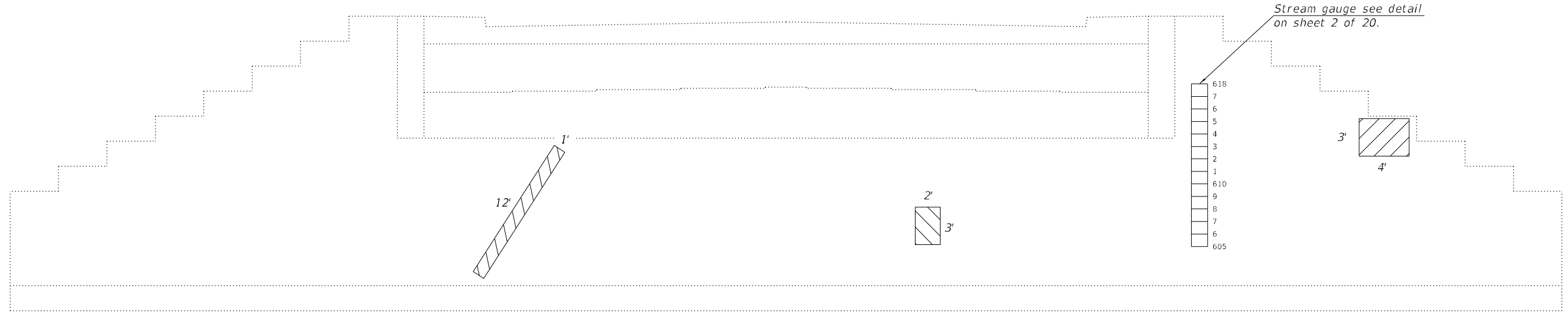
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 016-0472

SHEET NO. 9 OF 20 SHEETS

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 24
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40	
NPPP-39KM601				





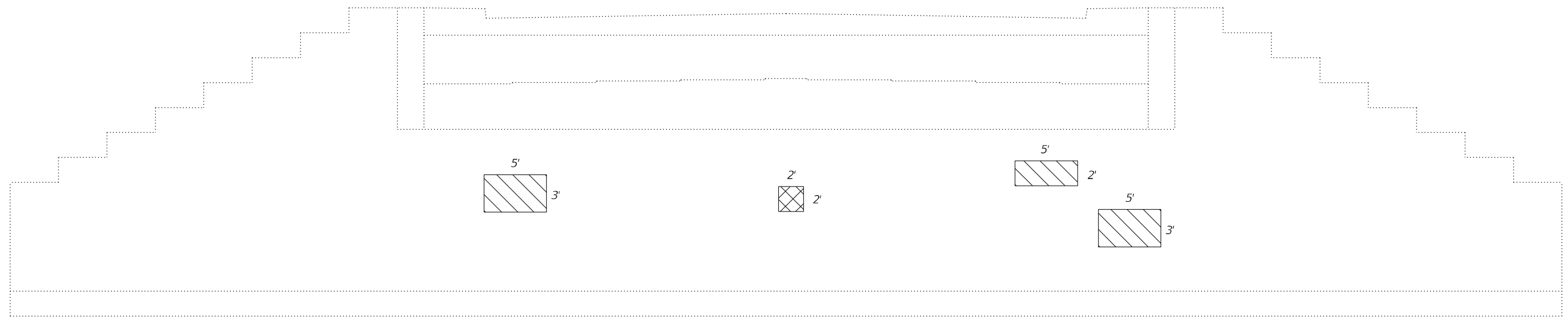
**WEST ABUTMENT REPAIRS**  
(Looking West)

**LEGEND**

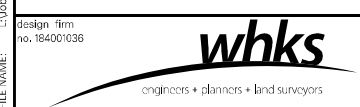
- Structural repair of concrete  $\leq 5'$
- Structural repair of concrete  $> 5'$

**BILL OF MATERIAL**

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 in.)	Sq. Ft.	70
Structural Repair of Concrete (Depth Greater Than 5 in.)	Sq. Ft.	4
Stream Gauge	Each	1



**EAST ABUTMENT REPAIRS**  
(Looking East)



USER NAME = dheberling	DESIGNED - CEH	REVISED
FILE NAME = 0160472-xxxx.dgn	CHECKED - SBC	REVISED
PLOT SCALE = 0.2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIR DETAILS**  
**STRUCTURE NO. 016-0472**

SHEET NO. 10 OF 20 SHEETS

F.A.P. RTE. 347	SECTION 2020-159-BR	COUNTY COOK	TOTAL SHEETS 41	SHEET NO. 25
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M40	
NHP-39KM601				

B.M. #16 - Elev. 622.72:  
 Brass Disk (Chicago Metro  
 Sanitary District) @ Sta 56+00  
 28' Lt. on Sidewalk @ N.W. Corner  
 of Bridge.

B.M. #15 - Elev. 624.69  
 X-Cut in S.E. Bonnet 30' - - - -  
 @ Sta. 50+48.31' Lt.

B.M. #44 - Elev. 621.79  
 S. S/E Bonnet Bolt on Fire - - -  
 @ Sta. 59+03.32' Lt.

**EXISTING STRUCTURE**  
 The Date of Construction of The Center 24 Feet  
 is Unknown. The Structure was widened to its present  
 width in 1928 as S.B.I. Route 6, Section F-1,  
 Sta. 46+86. It is a two span reinforced concrete girder  
 bridge with the transverse expansion joint located  
 at the center pier. The concrete deck is approximately  
 9 inches in the center and 7 inches in the widened  
 portion with a 3 inch overlay. It is supported on  
 concrete closed abutments and a solid pier all on  
 spread footing foundations. S.N. 016-0472.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**WORK TO BE PERFORMED**  
 The existing superstructure will be removed  
 and replaced with a 7/8 inch reinforced concrete  
 deck supported on continuous (2 equal spans)  
 36" P.P.C. I-Beams. The deck will be constructed  
 to provide a total of four (4) lanes @ 11'-0" and two  
 (2) 5'-0" sidewalks as indicated on the plan. The  
 existing substructures will be rehabilitated  
 and partially reconstructed. Construction will  
 be staged to provide two-way traffic at all times.  
 For details of stage construction see notes and  
 details on this and other drawings.

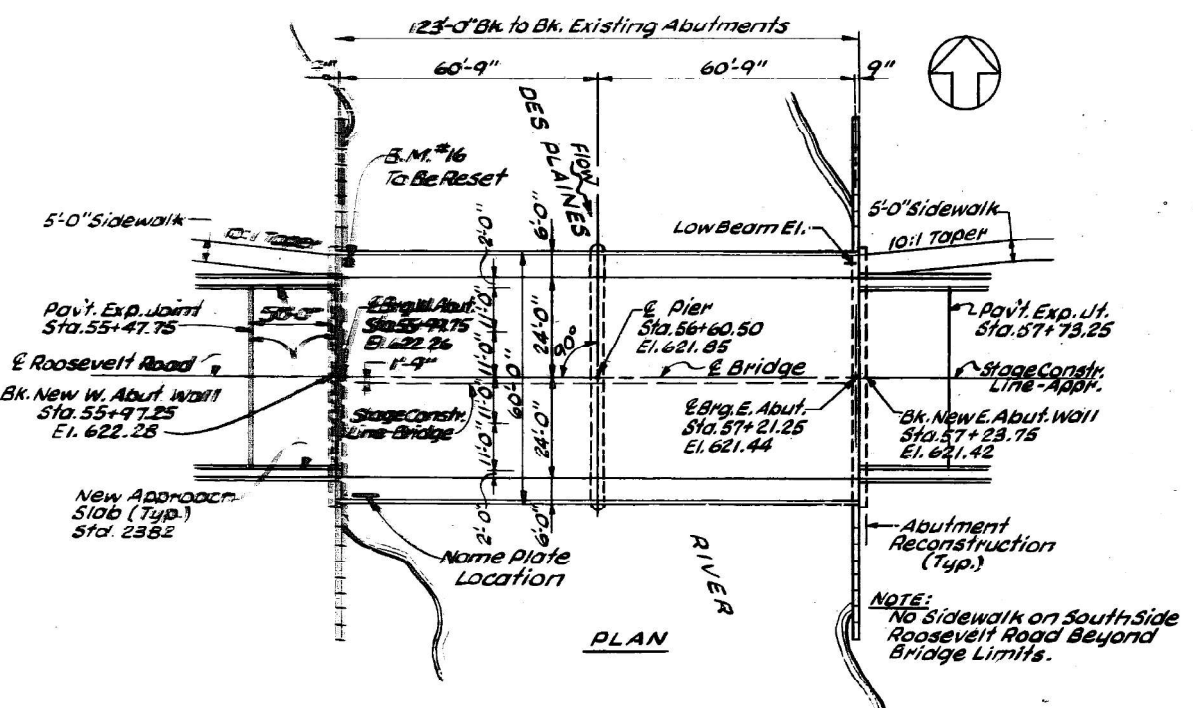
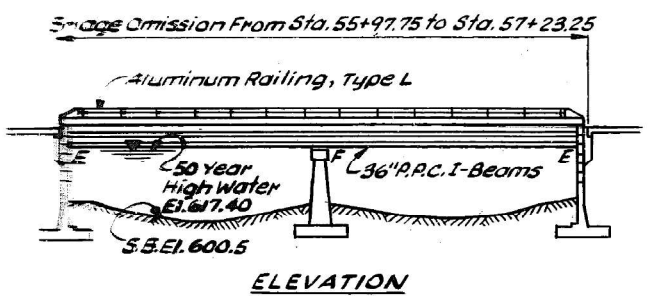
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A. 567	JR-WRS (82)	COOK	106	72	SHEETS 17
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	91-271-79		

**DESIGN DATA**

**DESIGN SPECIFICATIONS**  
 1977 A.A.S.H.T.O. and Interim Specs.  
 1978, 1979, 1980, 1981 & 1982 As Applicable  
 1983 I.D.O.T. Standard Specification  
 for Road and Bridge Construction.

**DESIGN STRESSES (NEW CONSTR.)**  
 Substructure & Deck  
 $f'_c = 3500$  P.S.I.  
 $f_y = 60,000$  P.S.I. reinforcement  
 $= 36,000$  P.S.I. struct. steel (M183)  
 Precast Prestressed Conc. I-Beams  
 $f'_c = 6,000$  P.S.I.  
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 $f'_s = 270,000$  P.S.I. ( $1/2"$  strands)  
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 $f_y = 60,000$  P.S.I.

**LOADING**  
 Truck Loading HS 20-44  
 Future Wearing Surface: 25#/Sq.Ft.



**GENERAL NOTES**

All structural steel shall be shop painted with the zinc-silicate and vinyl paint system.

Reinforcement bars shall conform to the requirements of AASHTO M31 or M53 Grade 60.

The cost of drilling the holes and epoxy grouting in the reinforcement bars shall be incidental to the cost of the reinforcement bars. See Special Provisions.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

STATE OF ILLINOIS  
 FRANK B. WYLIE, JR.  
 81-4041  
 LICENSED STRUCTURAL ENGINEER  
 27 January 1984

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructure	Lump Sum*	-	-	Lump Sum
Concrete Removal	Cu. Yd.	-	39	39
Structure Excavation	Cu. Yd.	-	180	180
Floor Drains	Each	12	-	12
Protective Coat	Sq. Yd.	902	-	902
Class X Concrete	Cu. Yd.	262.3	110.7	373.0
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36 in.	Lin. Ft.	1101	-	1101
Structural Steel	Pound	3130	-	3130
Aluminum Railing, Type L	Lin. Ft.	226	-	226
Reinforcement Bars	Pound	610	9060	9670
Reinforcement Bars (Epoxy Coated)	Pound	51450	-	51450
Name Plates	Each	1	-	1
Temporary Sheet Piling	Sq. Ft.	-	1070	1070
Epoxy Crack Sealing	Lin. Ft.	-	103	103
Repair Concrete Structures	Sq. Ft.	-	35	35
Ref. Joint Seal 2 1/2"	Lin. Ft.	124	-	124
Elastomeric Bearing Assembly, Type I	Each	18	-	18
Galvanized Steel Conduit, 2"	Lin. Ft.	124	-	124

\* Includes approx. 583 Cu. Yds. Concrete Superstructure, Railing & Beam removal, 711 Sq. Yds. Bituminous Concrete Surface removal.

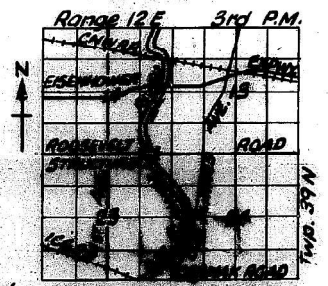
**WATERWAY INFORMATION**

DRAINAGE AREA: 474 SQ. MILES LOW GRADE EL. 617.71' @ STA. 62+00

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.	NAT. H.W.E.	HEAD-FT.	HEADWATER EL.
DESIGN	50	5,775	1,500	617.4'	0.36	617.76'
BASE	100	6,275	1,500	617.8'	0.36	618.16'
OVERTOPPING	50	5,775	1,500	617.4'	0.36	617.76'
MAX. CALC.	500					

**NAME PLATE**  
 See Ill. Std. 2113

STATION 56+60.5  
 REBUILT 198 BY  
 STATE OF ILLINOIS  
 F.A. P.R.T. 567 SEC. JR-WRS (82)  
 F.A. PROJECT IX-567 (51)  
 LOADING HS20  
 STR. NO. 016-0472



APPROVED  
 FOR STRUCTURAL ADEQUACY ONLY  
 James J. Reardon  
 Engineer of Bridges and Structures

**GENERAL PLAN AND ELEVATION**  
 F.A. 567 OVER DES PLAINES RIVER  
 F.A. ROUTE 567 SECTION JR-WRS (82)  
 COOK COUNTY  
 STA. 56+60.5

Note: Existing Name Pl. shall be cleared & reinstalled below new name pl. (Cost incidental)

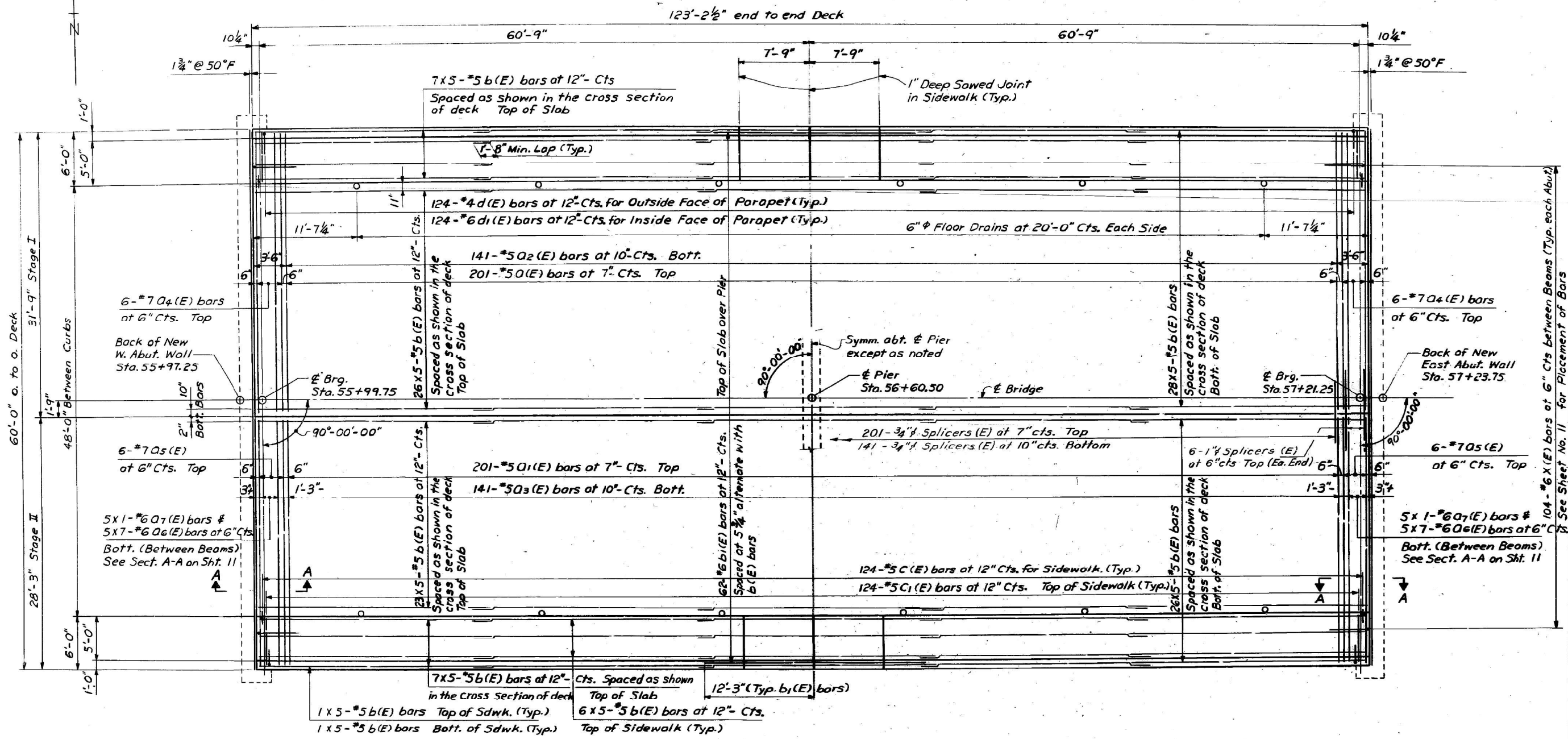
Re. JE 4/21/85

HAZLET & BERNAL  
 CONSULTING ENGINEERS  
 FILE NO. 541-03  
 DRAWN BY: B.W.  
 CHECKED BY: C.G.H.  
 APPROVED BY:

**PROFILE GRADE, ROOSEVELT ROAD**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	JR-WRS	COOK	106	75
SHEETS 17				



**PLAN**

**NOTES:**  
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 30 X 5-#5 etc indicates 30 lines of bars with 5 lengths per line.  
All exposed edges to have 3/8\"/>

**DECK REINFORCEMENT**  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

Rev. R.P.S.

HAZLET & SRDAL  
CONSULTING ENGINEERS  
FILE NO. 541-03  
DRAWN BY: HKN  
CHECKED BY: CGH  
APPROVED BY:



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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

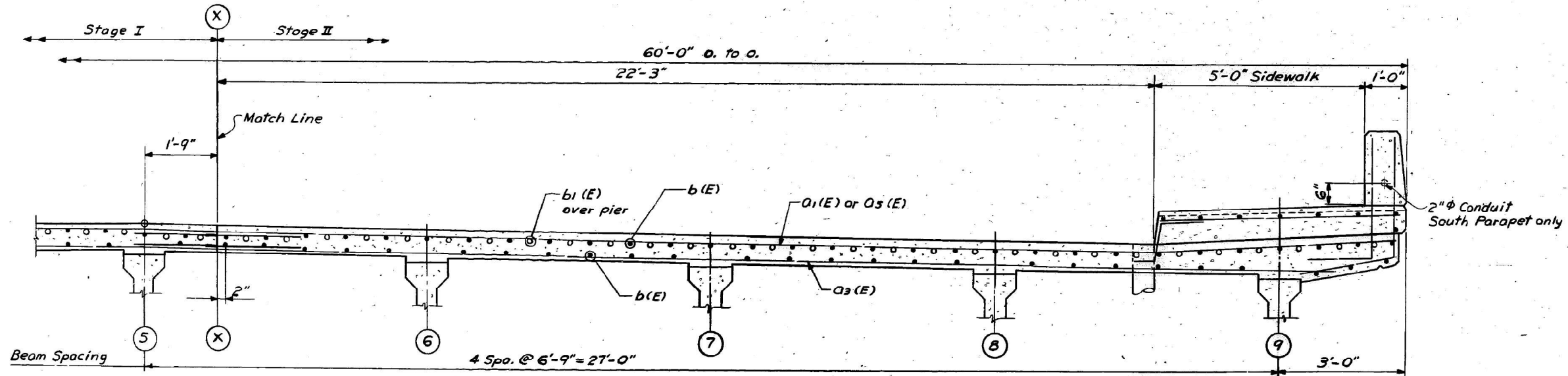
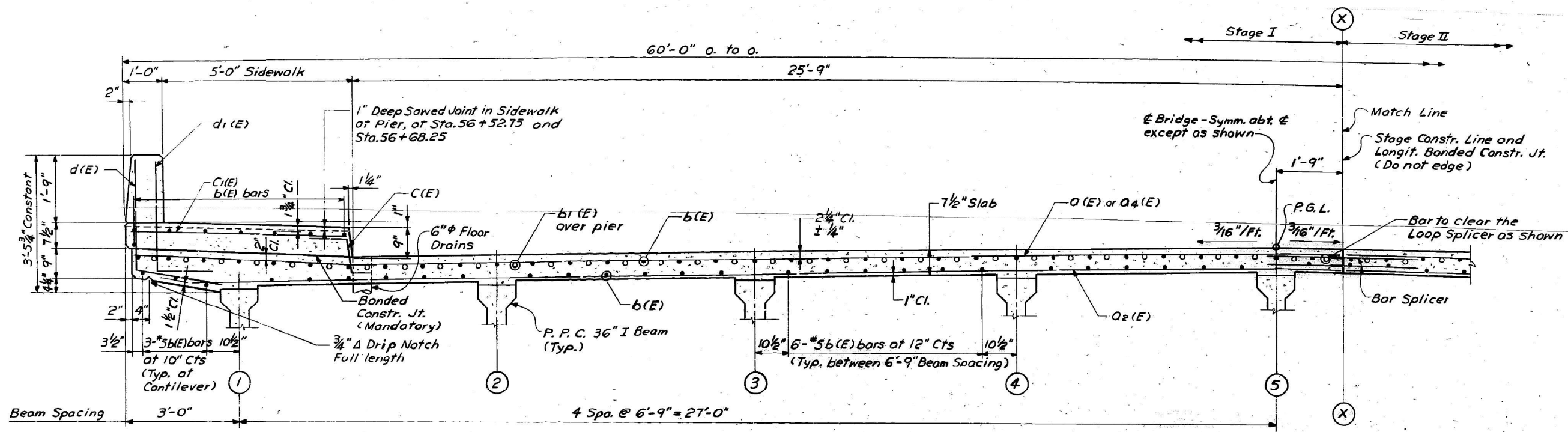
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STRUCTURE NO. 016-0472  
SHEET NO. 12 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	27
CONTRACT NO. 62M40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NHP-39KM601				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 567	JR-WRS(82)	COOK	100	70
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT

SHEET NO. 5  
SHEETS 17



CROSS SECTION OF DECK  
(Looking East)

DECK REINFORCEMENT  
F.A. ROUTE 567 SECTION JR-WRS(82)  
COOK COUNTY  
STA. 56+60.5

HAZLET & BRADY  
CONSULTING ENGINEERS  
FILE NO. 541-03  
DRAWN BY HKN  
CHECKED BY CGH  
APPROVED BY

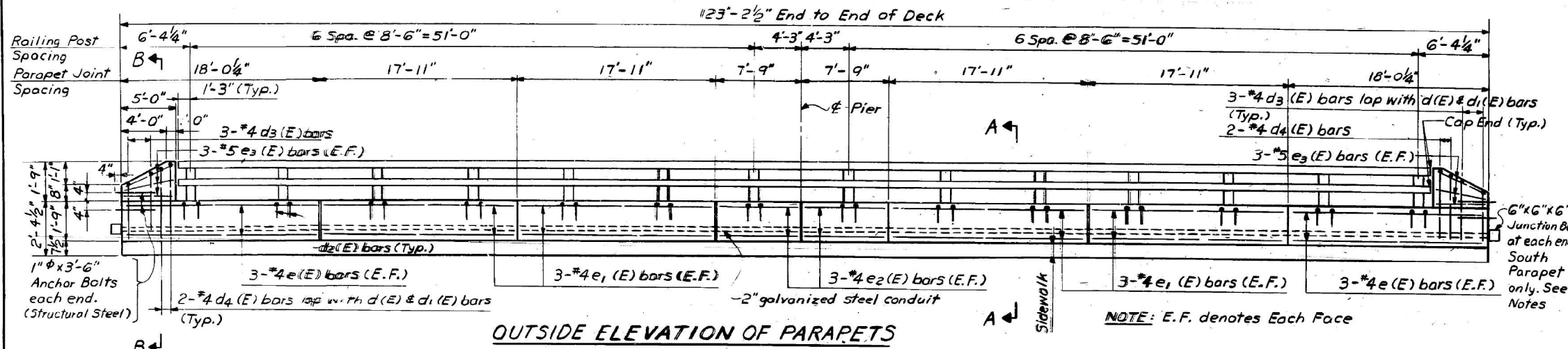


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PLOT SCALE = 0.2" = 1'	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

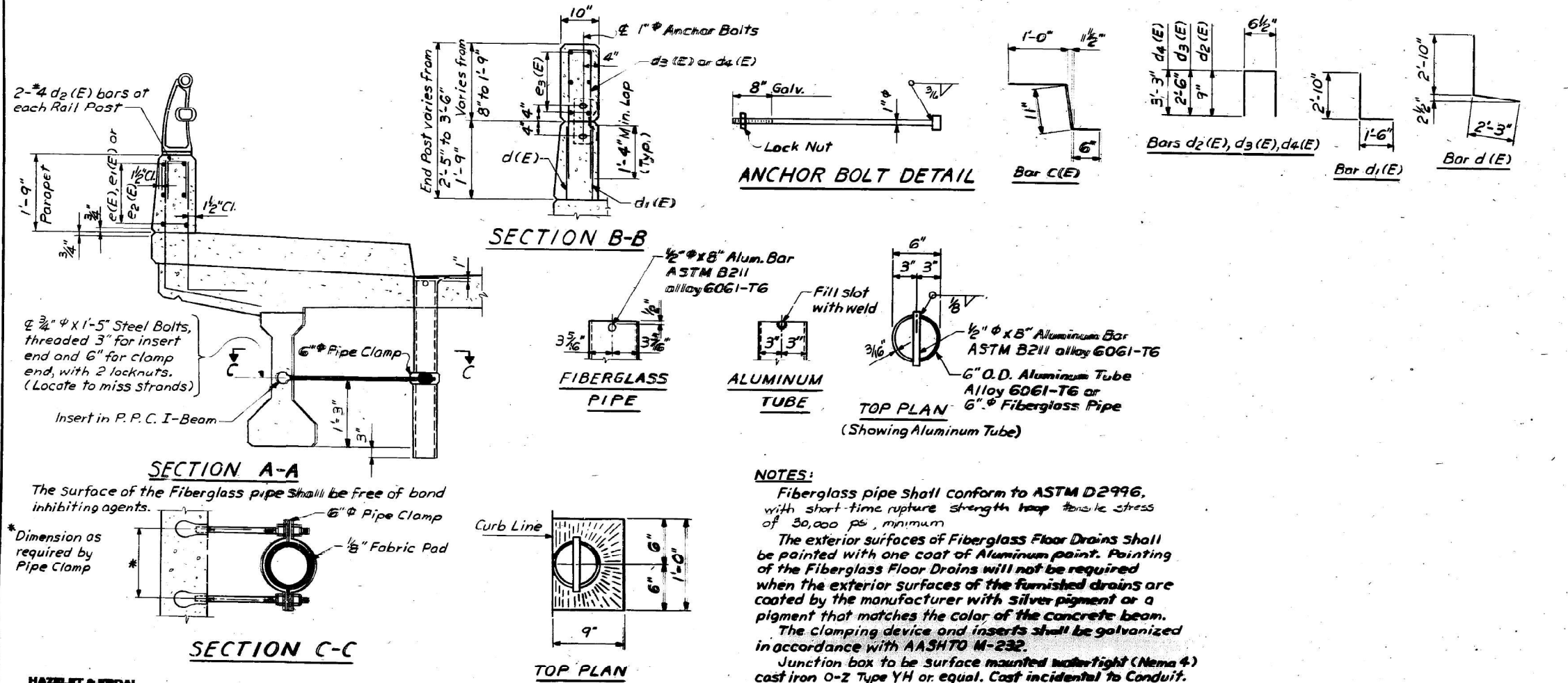
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STRUCTURE NO. 016-0472  
SHEET NO. 13 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	28
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 62M40	
			NHP-39KM(601)	



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	201	#5	31'-3"	—
a1(E)	201	#5	27'-9"	—
a2(E)	141	#5	30'-0"	—
a3(E)	141	#5	26'-6"	—
a4(E)	12	#7	31'-3"	—
a5(E)	12	#7	27'-9"	—
a6(E)	70	#6	6'-0"	—
a7(E)	10	#6	4'-3"	—
b(E)	665	#5	26'-0"	—
b1(E)	62	#6	24'-6"	—
c(E)	248	#5	2'-5"	—
c1(E)	248	#5	5'-8"	—
d(E)	248	#4	5'-1"	L
d1(E)	248	#6	4'-4"	L
d2(E)	56	#4	2'-1"	□
d3(E)	12	#4	5'-7"	□
d4(E)	8	#4	7'-1"	□
e(E)	24	#4	17'-9"	—
e1(E)	48	#4	17'-7"	—
e2(E)	24	#4	7'-5"	—
e3(E)	24	#5	4'-8"	—
m	28	#4	6'-0"	—
m1	14	#6	5'-0"	—
m2	4	#4	4'-6"	—
m3	2	#6	4'-0"	—
m4	7	#8	5'-6"	—
m5	2	#8	3'-3"	—
s	40	#4	9'-2"	U
x(E)	208	#6	8'-1"	□
Class X Concrete		Cu. Yd.	262.3	
Reinforcement Bars		Lb.	610	
Reinf. Bars (Epoxy Coated)		Lb.	51,450	
Galv. Steel Conduit, 2"		Lin. Ft.	124	



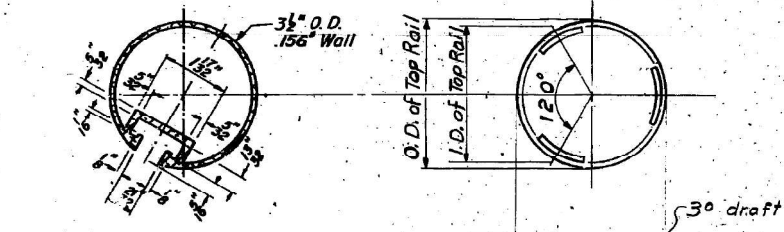
**PARAPET & DRAIN DETAILS**  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

HAZELT & ERDAL  
CONSULTING ENGINEERS  
FILE NO. 541-03  
DRAWN BY: HKN  
CHECKED BY: CGH  
APPROVED BY:

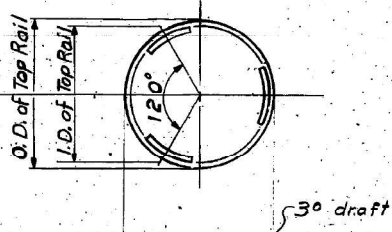
Rev JE 4/21/85

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO.
567	JR-WRS	COOK	106	7
SHEETS				17

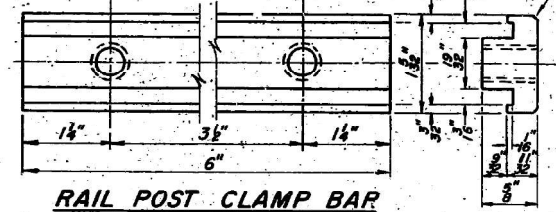


SECTION THRU TOP RAIL

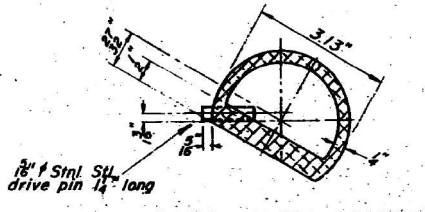


CAST END CAP  
For Top Rail  
4 Required

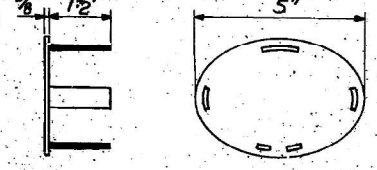
Drill & tap for 1/2" (stnl. stl.) hex. head cap screws



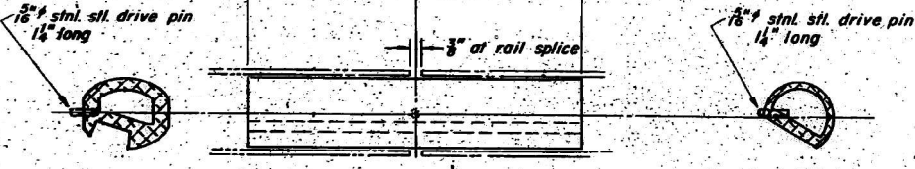
RAIL POST CLAMP BAR  
For Top Rail



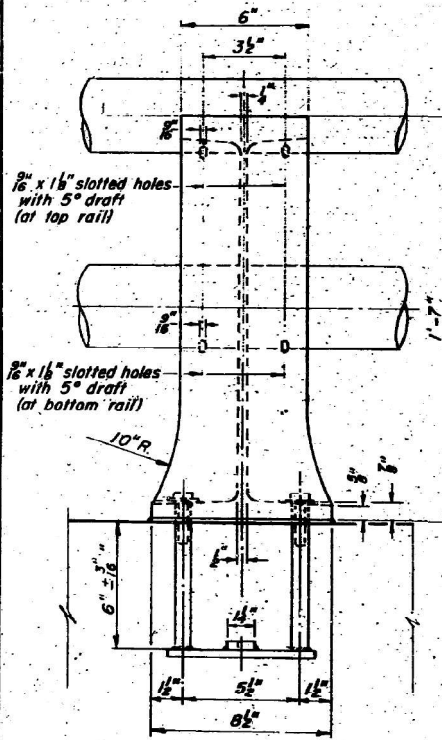
SECTION THRU SPLICE  
TOP RAIL



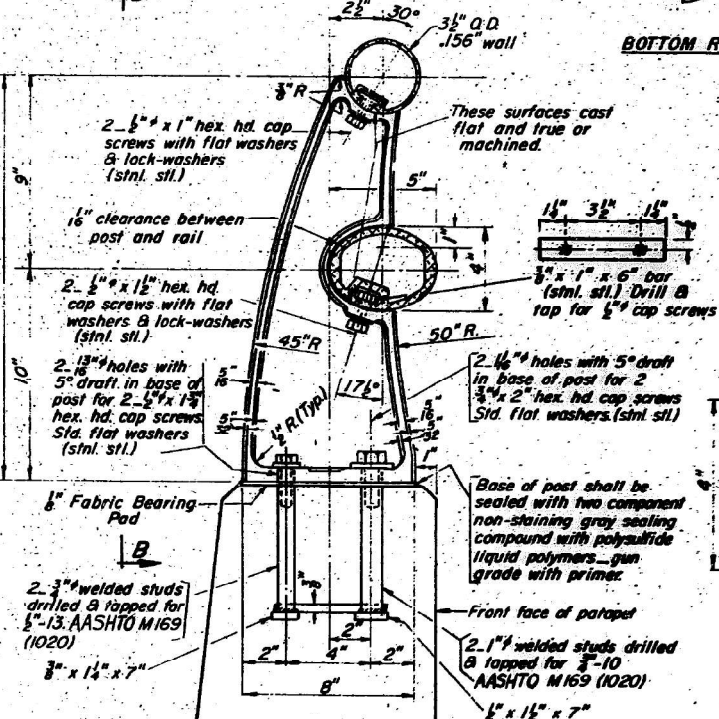
CAST END CAP  
For Bottom Rail  
DRIVE FIT TYPE  
4 Required



RAIL SPLICE

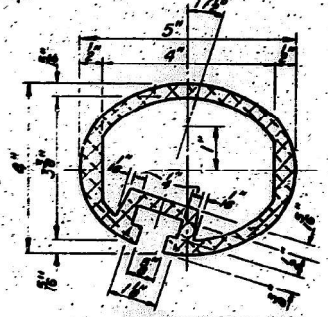


VIEW B-B

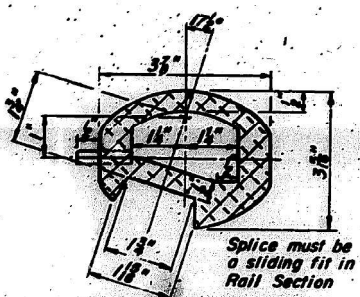


SECTION A-A

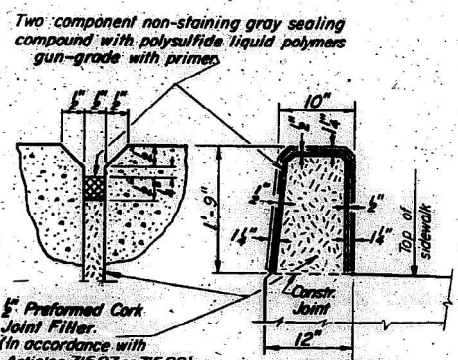
RAIL POST DETAILS



SEC THRU ELLIPTICAL  
RAIL SECTION



SEC THRU SPLICE



PARAPET JOINT DETAILS

NOTES:  
All Posts shall be normal to parapet.  
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.  
All joints in rail shall be spliced per detail.  
Provide 1-1/8" and 2-1/16" Aluminum Shims for 25% of the Posts.  
Rail elements shall be parallel to Grade - high spots shall be ground and low spots shimmed.  
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, TYPE L.  
Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

**BILL of MATERIALS**

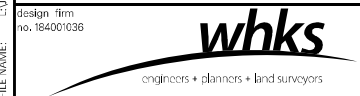
Item	Unit	Quantity
ALUMINUM RAILING, TYPE L	Lin. Ft.	226

TYPE L  
ALUMINUM RAILING

F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

DESIGNED	
CHECKED	
DRAWN	HKN
CHECKED	CGH

R-20 6-1-82



USER NAME = dtheberling	DESIGNED - CEH	REVISED
FILE NAME = 0180472-xxxx.dgn	CHECKED - SBC	REVISED
PLOT SCALE = 0.2" = 1'	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
STRUCTURE NO. 016-0472

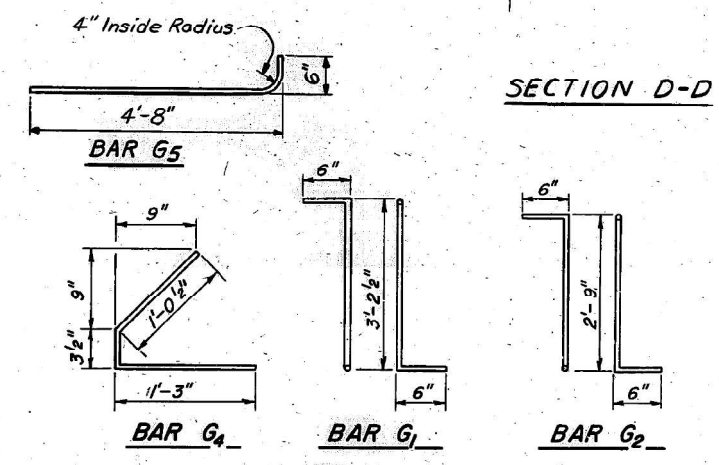
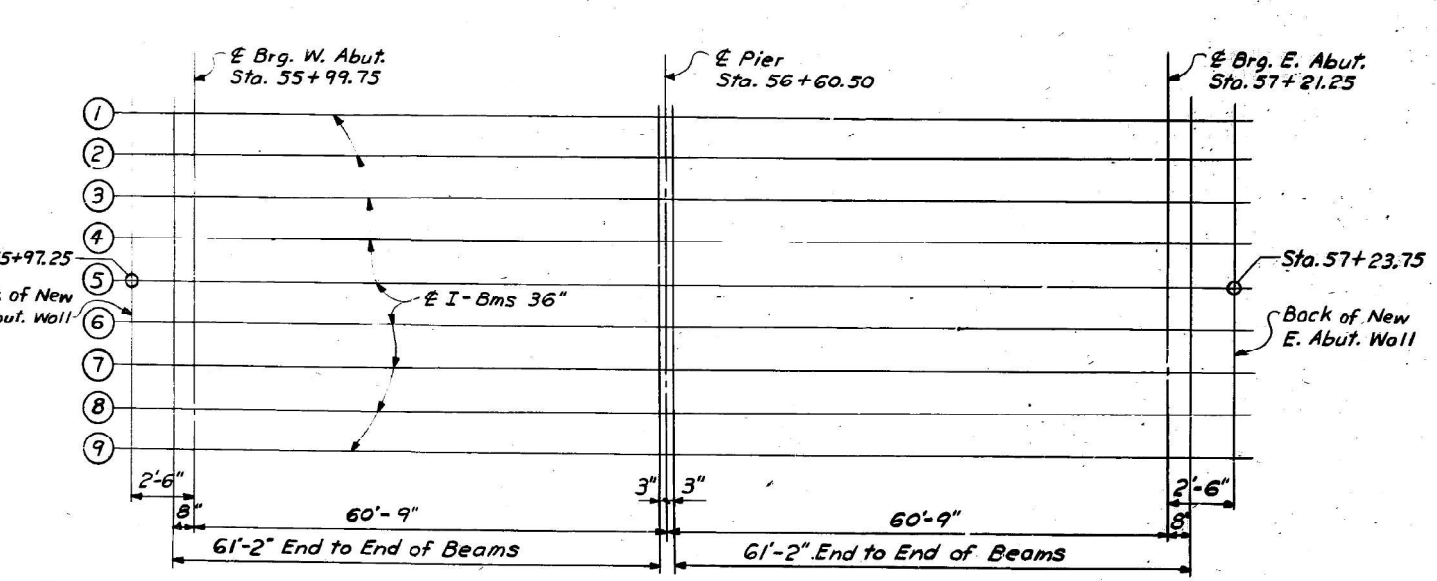
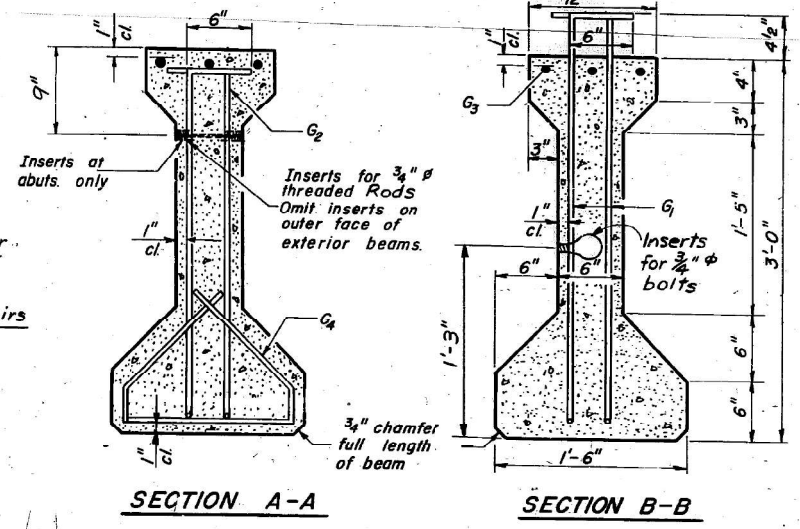
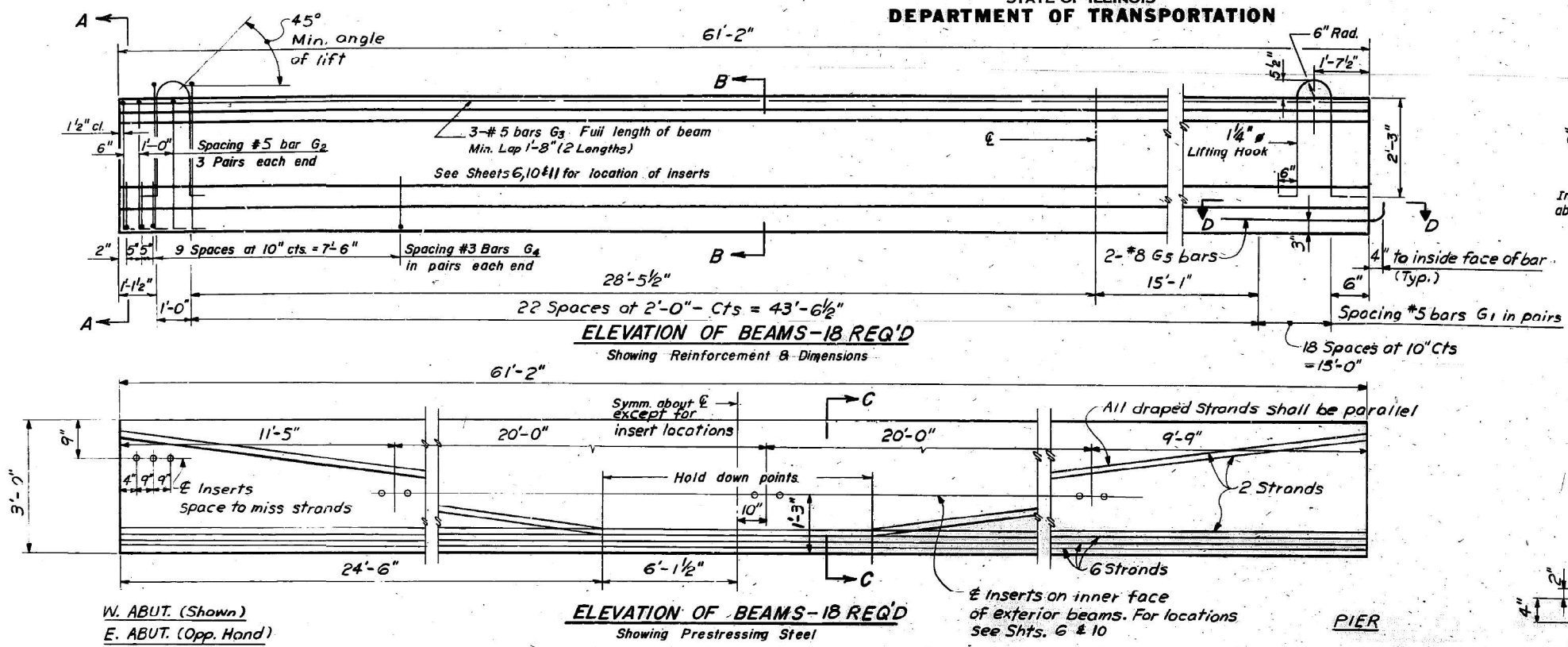
SHEET NO. 15 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	30
CONTRACT NO. 62M40			NHP-39KM(601)	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
667	JR-WRS	COOK	106	81
SHEET NO. 10 SHEETS 17				



**\* BAR LIST**

Bar	No.	Size	Length	Shape
G <sub>1</sub>	84	#5	4'-2 1/2"	7L
G <sub>2</sub>	12	#5	3'-9"	7L
G <sub>3</sub>	6	#5	31'-6"	—
G <sub>4</sub>	48	#3	2'-7"	C
G <sub>5</sub>	2	#8	5'-2"	—

\* For one beam only.

**BILL OF MATERIAL**

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin. Ft.	1101

**NOTES**

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per linear foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In." Non-prestressed reinforcement shall be AASHTO M31 or M153 grade 60.

Prestressing Steel shall have a nominal diameter of 1/2" & a cross sectional area of 0.153 sq. in.  
Inserts for 3/4" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.  
Steel for lifting hooks shall be non-deformed bars. fy=40,000 psi.  
Required release Strength (F'ci) = 4300 psi

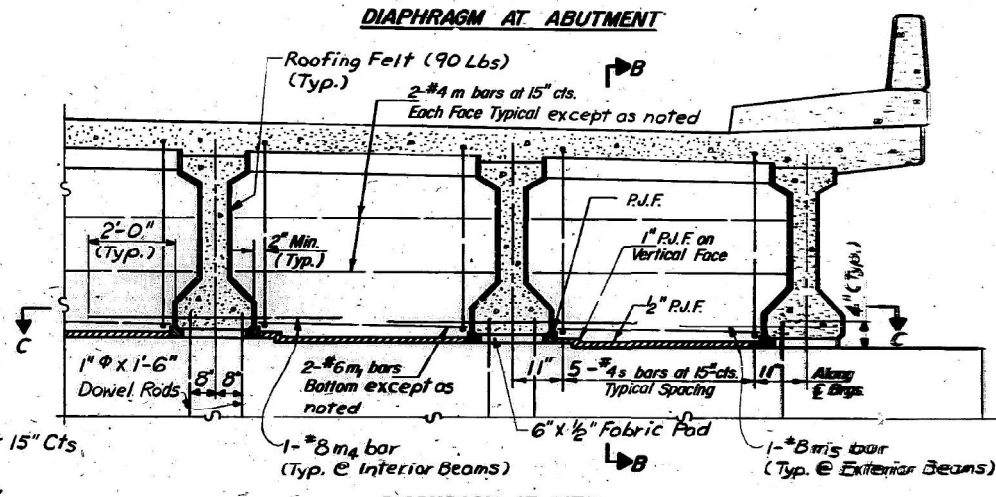
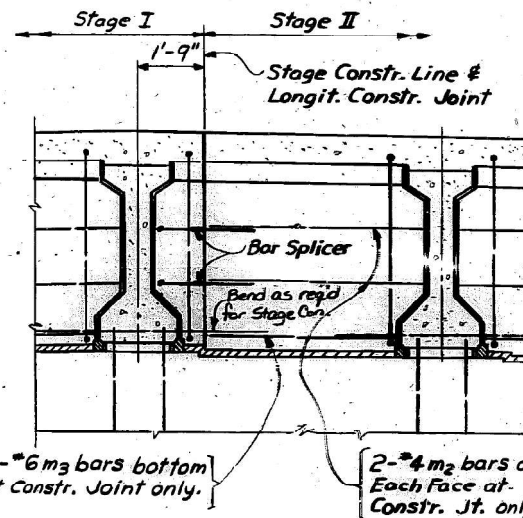
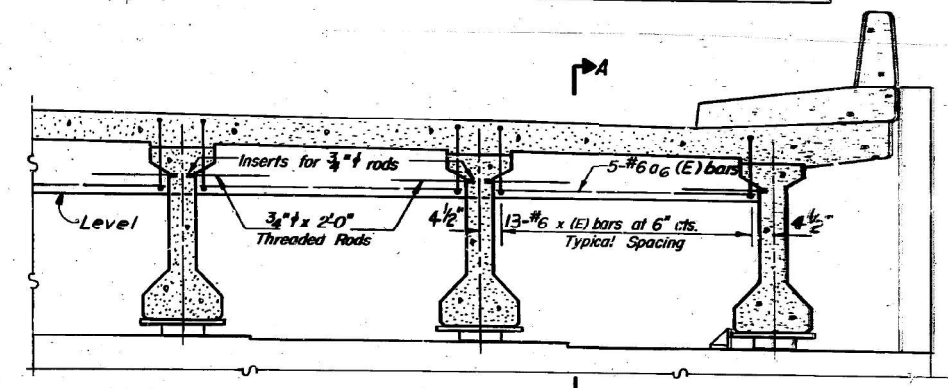
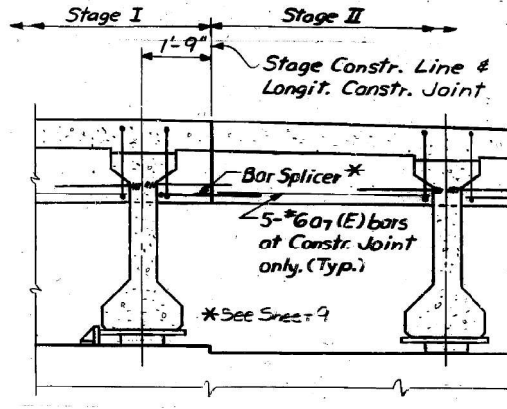
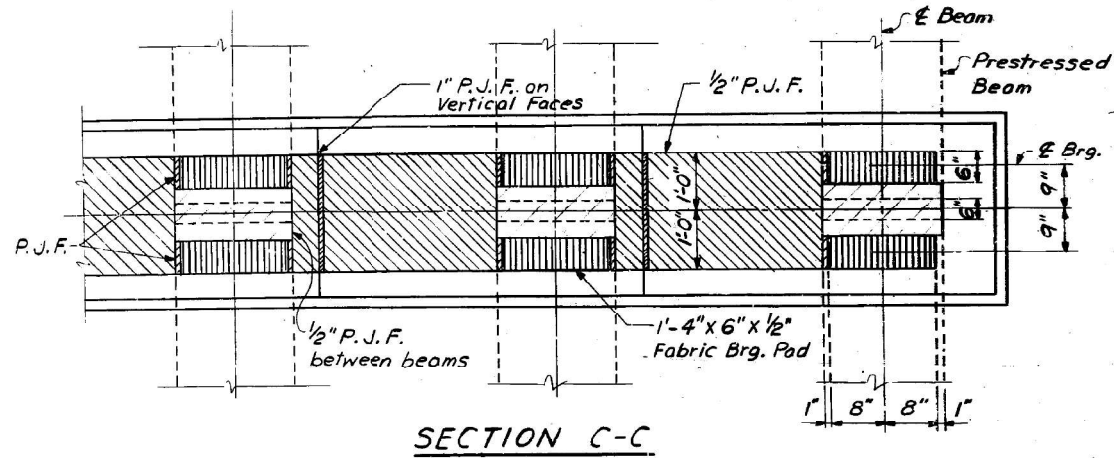
**PRECAST PRESTRESSED CONCRETE I-BEAM**  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

DESIGNED	
CHECKED	
DRAWN	HKN
CHECKED	CGH

PI-4-36

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

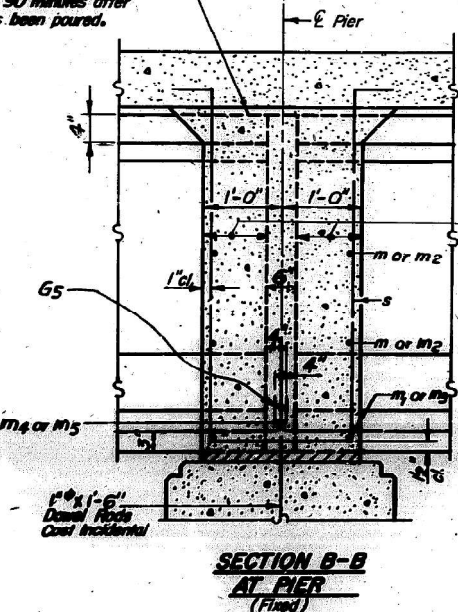
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
567	JR-WRS	COOK	106	82
SHEET NO. 11				
SHEETS 17				



2-#6 m3 bars bottom at Constr. Joint only.

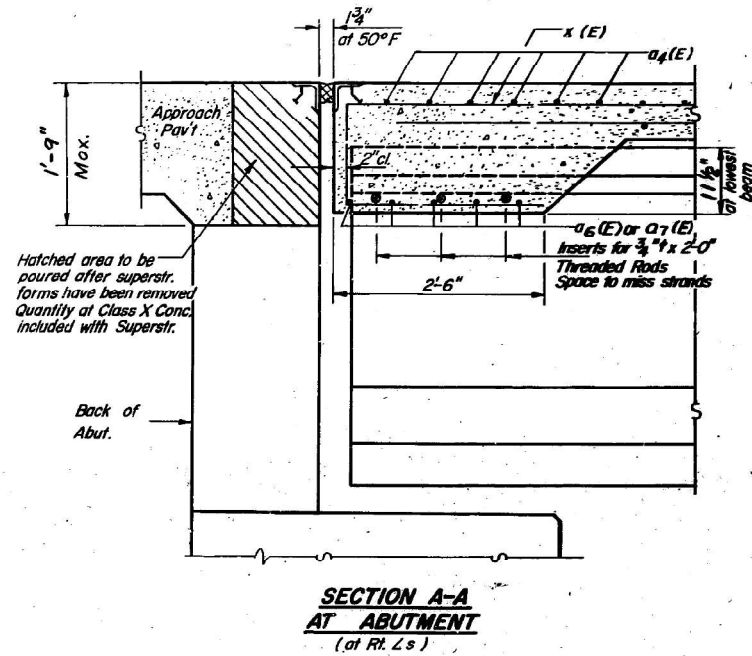
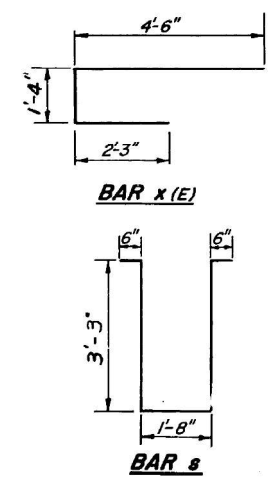
2-#4 m2 bars at 15" Cts. Each Face at Constr. Jt. only.

Four diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.



Roofing Felt shall be Bonded to side of beams embedded into Diaph. Cost Incidental.

**DECK & DIAPHRAGM DETAILS**  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5



NOTE: Reinforcement bars shown on this sheet are included in Bill of Material on Sheet #6

DESIGNED	
CHECKED	
DRAWN	HKN
CHECKED	CGH

PI-2J 3-9-77

LAST SAVED DATE: 2/23/2021 11:41:15



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PLOT SCALE = 0.2"/in.	DRAWN - DLH	REVISED
PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
STRUCTURE NO. 016-0472

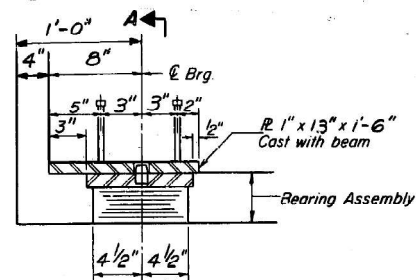
SHEET NO. 17 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	32
CONTRACT NO. 62M40				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NHP-39KM601				

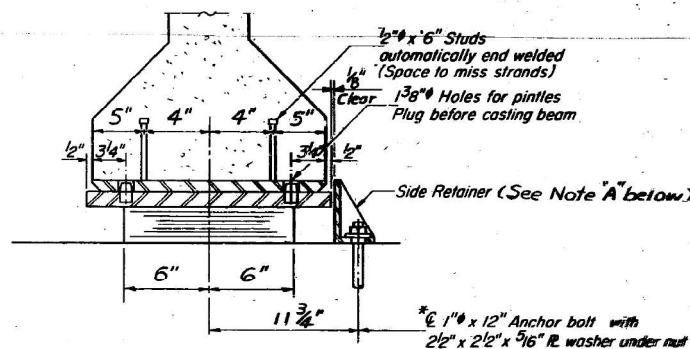


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A. 567	JR-WRS	COOK	106	83	17
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT		



SECTION AT ABUT.



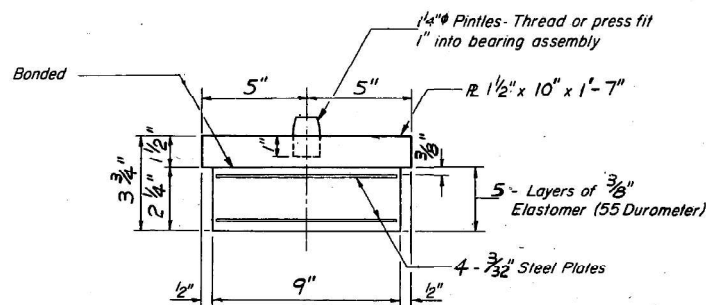
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

NOTE "A":

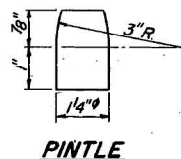
After beams ① thru ⑤ have been erected during Stage I, holes at expansion bearings shall be drilled and anchor bolts grouted in place for side retainers on the south side of beam ① and on the north side of beam ⑤.

After beams ⑥ thru ⑨ have been erected during Stage II, side retainers shall be installed on the north side of beam ⑨ in the above manner.

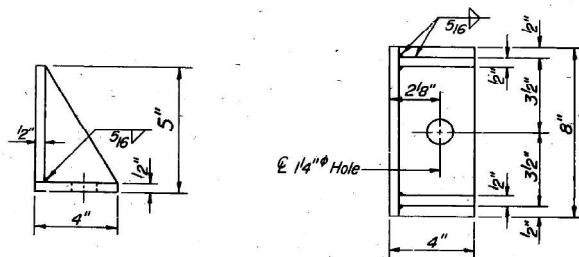


BEARING ASSEMBLY

Note: Shim plates shall not be placed under bearing assembly.



PINTLE



SIDE RETAINER

DESIGNED	
CHECKED	
DRAWN	HKN
CHECKED	CGH

PI-2E-1 4-30-79

BEARING DETAILS  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

Design firm  
no. 18400/036

whks  
engineers • planners • land surveyors

USER NAME = dtheberling	DESIGNED - CEH	REVISED
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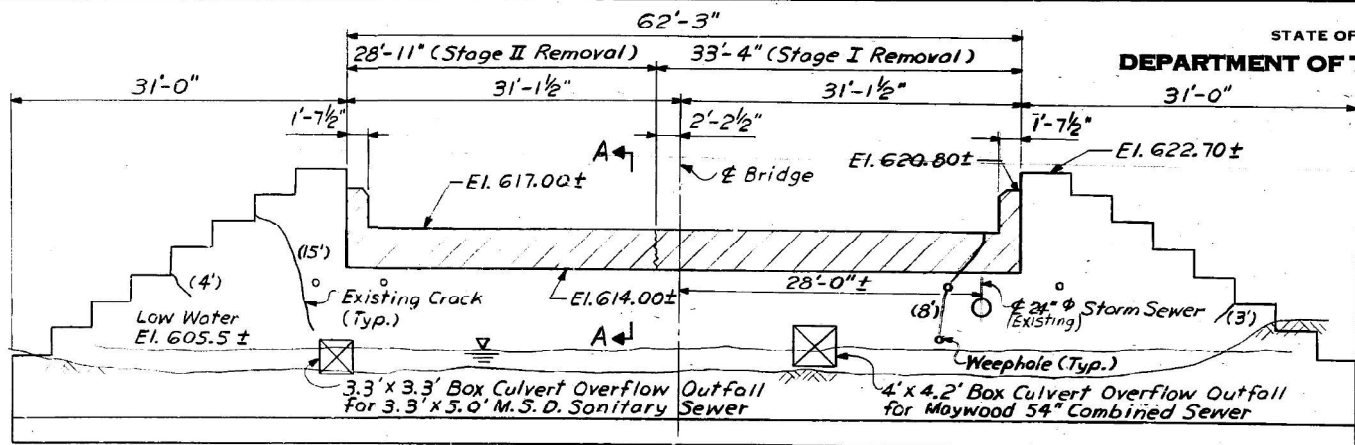
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
STRUCTURE NO. 016-0472

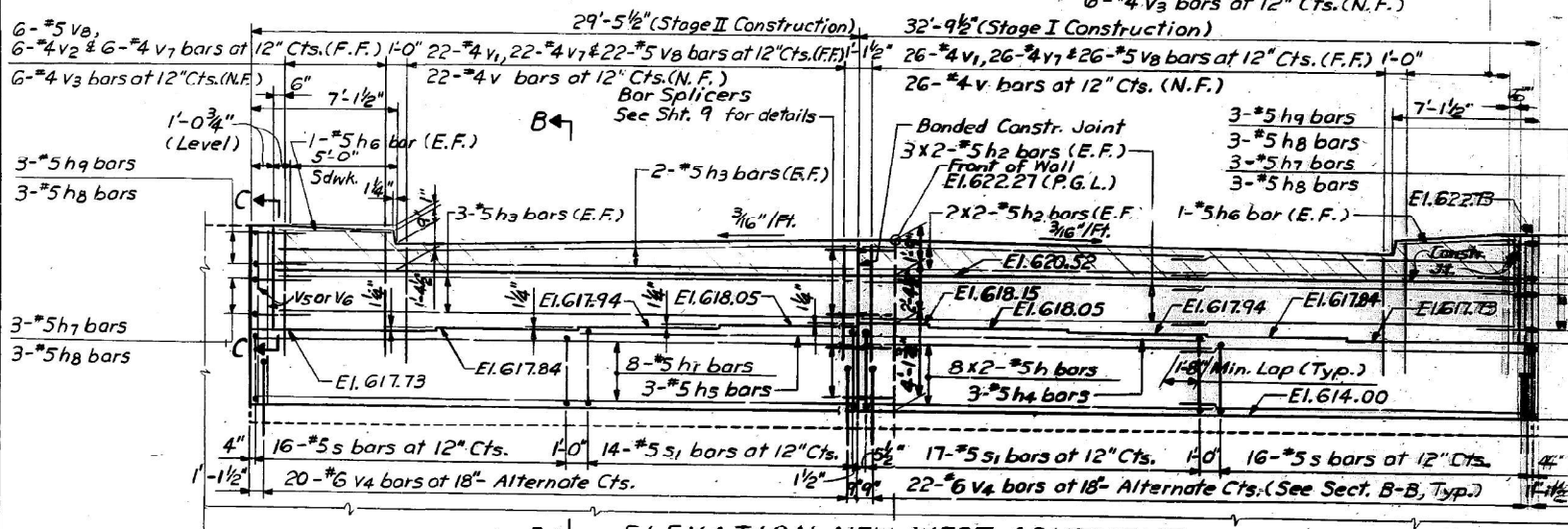
SHEET NO. 18 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	33
CONTRACT NO. 62M40				

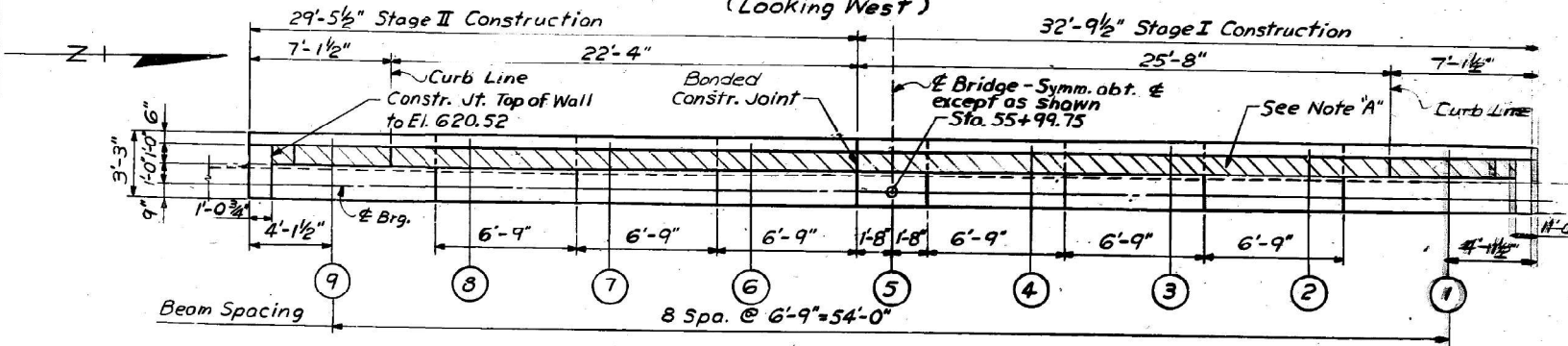
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NHP-39KM601



ELEVATION-WEST ABUTMENT  
(Looking West)



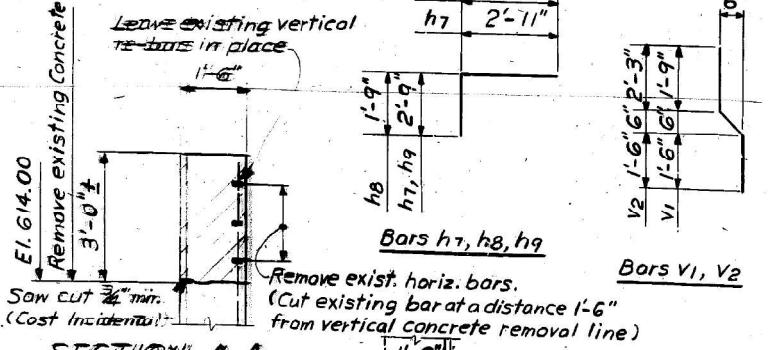
ELEVATION-NEW WEST ABUTMENT  
(Looking West)



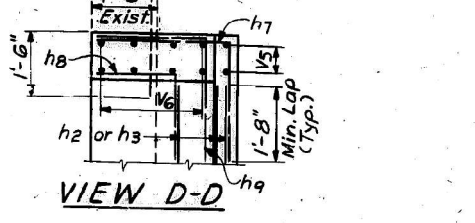
PLAN-NEW WEST ABUTMENT

**NOTES:**  
Exposed faces of existing concrete to be removed shall be saw cut 3/4" deep min. along removal lines (Cost incidental). Do not cut existing vertical bars.  
Existing cracks to be sealed by epoxy pressure injection. See Special Provisions.  
Approximate crack segment length shown thus (-6"). (Do not repair below water level)  
All exposed edges shall have standard 3/4" chamfers.  
Bars indicated as 8x2-#5 etc. indicates 8 lines of bars with 2 lengths per line.  
N.F. denotes Near Face  
F.F. denotes Far Face  
E.F. denotes Each Face  
See Detail 'W', Sheet 18 for fill details back of abutment.

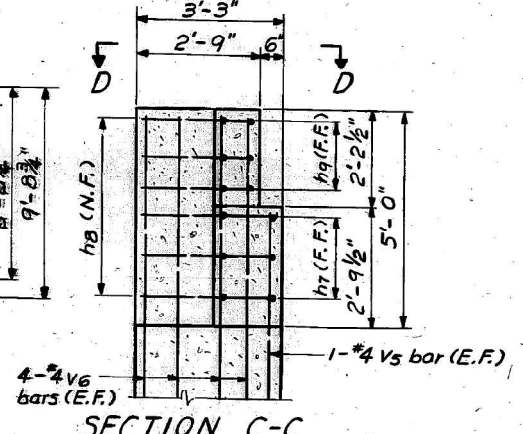
**NOTE 'A'**  
Hatched area to be removed after superstructure is in place. Form top surface of roadway to match superstructure. Quantity of concrete is included with superstructure.



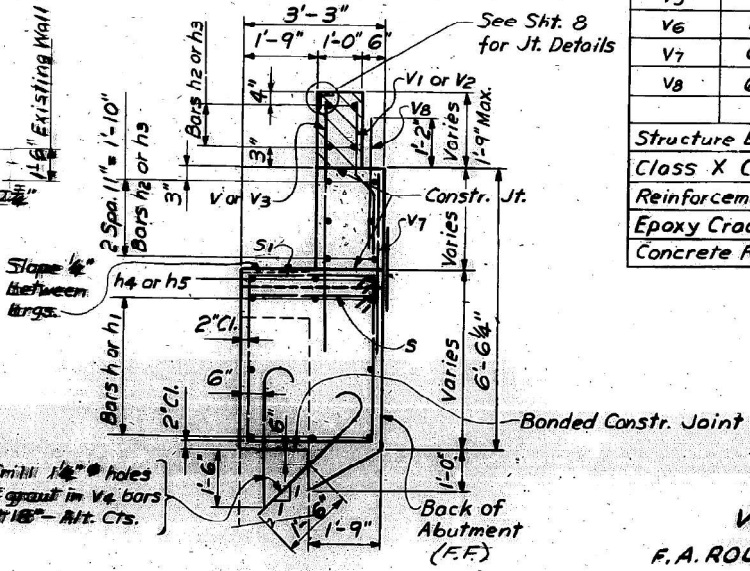
SECTION A-A



VIEW D-D



SECTION C-C



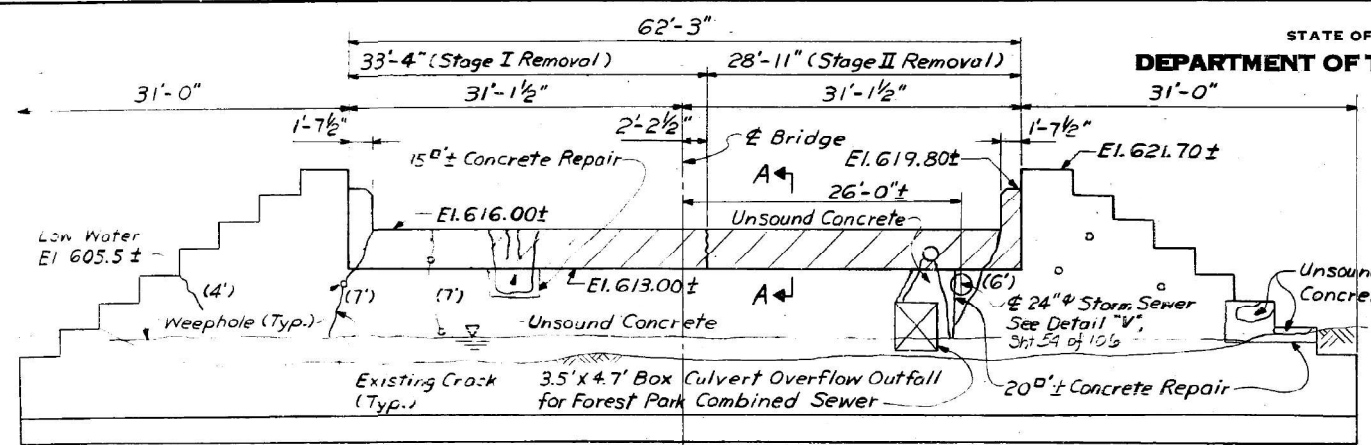
SECTION B-B

**BILL OF MATERIAL**

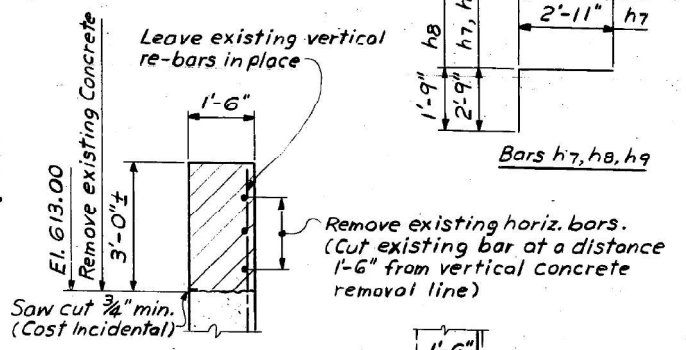
Bar	No.	Size	Length	Shape
h	16	#5	17'-1"	—
h1	8	#5	29'-2"	—
h2	20	#5	16'-7"	—
h3	10	#5	28'-2"	—
h4	3	#5	16'-9"	—
h5	3	#5	13'-4"	—
h6	4	#5	5'-6"	—
h7	6	#5	5'-8"	⌋
h8	12	#5	3'-9"	⌋
h9	6	#5	5'-2"	⌋
s	32	#5	13'-6"	⌋
s1	31	#5	14'-0"	⌋
v	48	#4	5'-9"	—
v1	48	#4	4'-0"	⌋
v2	12	#4	4'-6"	⌋
v3	12	#4	6'-6"	—
v4	42	#6	3'-8"	⌋
v5	4	#4	6'-2"	—
v6	16	#4	8'-5"	—
v7	60	#4	4'-3"	—
v8	60	#5	3'-0"	—
Structure Excavation	Cu. Yd.	90		
Class X Concrete	Cu. Yd.	40.9		
Reinforcement Bars	Lb.	3,400		
Epoxy Crack Sealing	Lin. Ft.	30		
Concrete Removal	Cu. Yd.	11		

WEST ABUTMENT  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

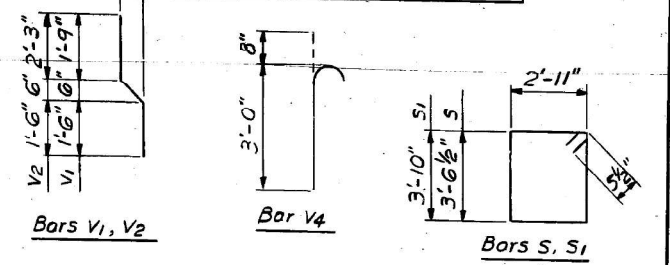
Rev 1E 6/21/05



**ELEVATION-EAST ABUTMENT**  
(Looking East)

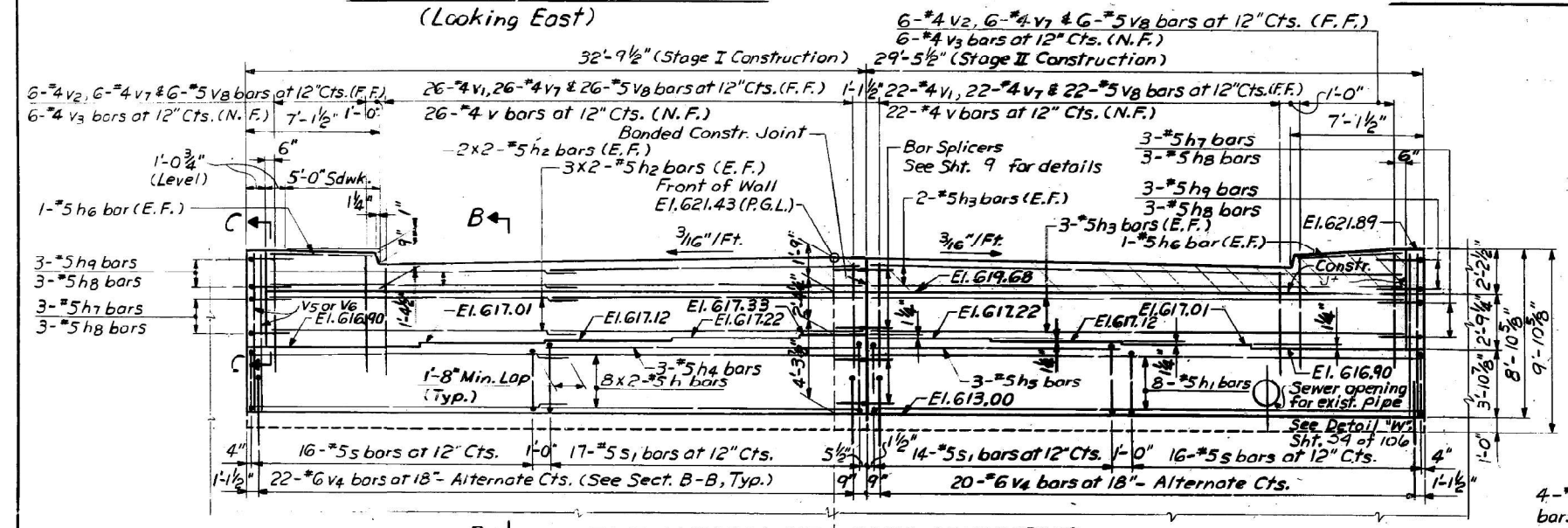


**SECTION A-A**

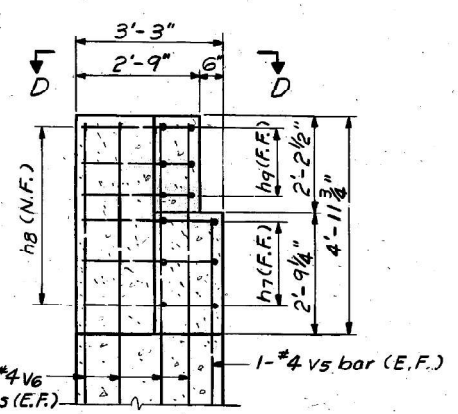
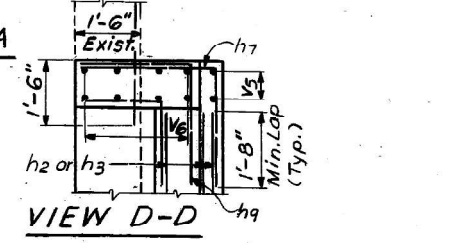


**BILL OF MATERIAL**

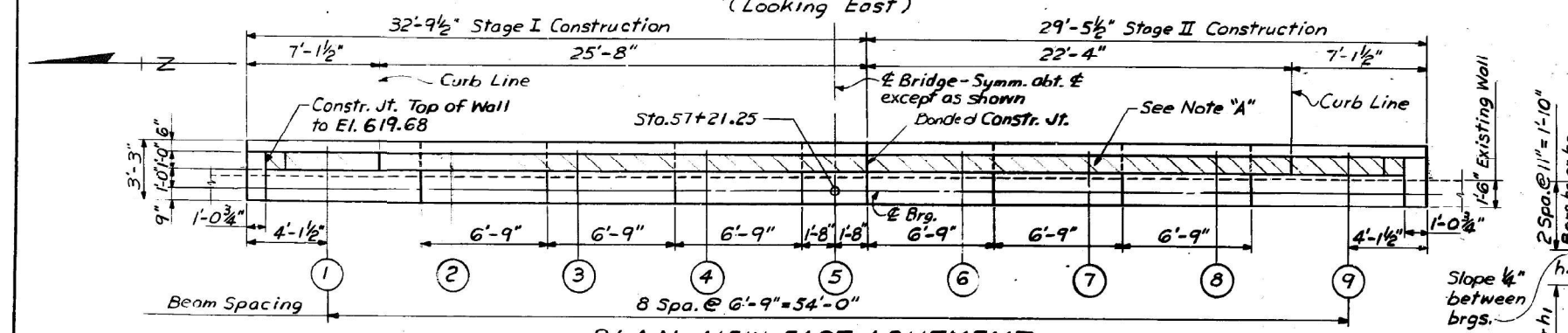
Bar	No.	Size	Length	Shape
h	16	#5	17'-1"	—
h1	8	#5	29'-2"	—
h2	20	#5	16'-7"	—
h3	10	#5	28'-2"	—
h4	3	#5	16'-9"	—
h5	3	#5	13'-4"	—
h6	4	#5	5'-6"	—
h7	6	#5	5'-8"	7
h8	12	#5	3'-9"	7
h9	6	#5	5'-2"	7
S	32	#5	13'-10"	□
S1	31	#5	14'-5"	□
V	48	#4	5'-9"	—
V1	48	#4	4'-0"	—
V2	12	#4	4'-6"	—
V3	12	#4	6'-8"	—
V4	42	#6	3'-8"	—
V5	4	#4	6'-4"	—
V6	16	#4	8'-7"	—
V7	60	#4	4'-5"	—
V8	60	#5	3'-0"	—
Structure Excavation	Cu. Yd.		90	
Class X Concrete	Cu. Yd.		42.2	
Reinforcement Bars	Lb.		3,440	
Epoxy Crack Sealing	Lin. Ft.		31	
Concrete Removal	Cu. Yd.		11	
Repair Concrete Structures	Sq. Ft.		35	



**ELEVATION-NEW EAST ABUTMENT**  
(Looking East)



**SECTION C-C**

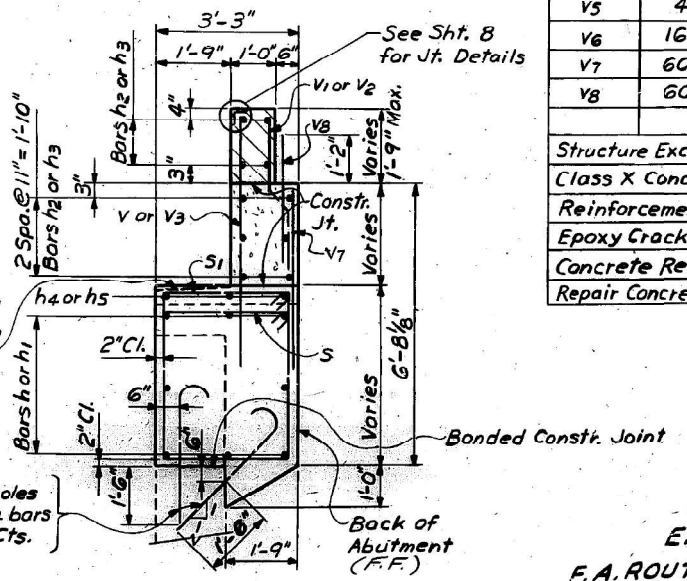


**PLAN-NEW EAST ABUTMENT**

**NOTES:**  
Exposed faces of existing concrete to be removed shall be saw cut, 3/4" deep min. along removal lines (Cost incidental). Do not cut existing vertical bars.  
Existing cracks to be sealed by epoxy pressure injection. See Special Provisions. Approximate crack segment length shown thus (G'). (Do not repair below water level).  
All exposed edges shall have standard 3/4" chamfers.  
Bars indicated as 8x2-#5 etc. indicates 8 lines of bars with 2 lengths per line.  
N.F. denotes Near Face  
F.F. denotes Far Face  
E.F. denotes Each Face  
See Detail "W", Sheet 18 for fill details back of abutment.

**NOTE "A"**  
Hatched area to be poured after superstructure is in place. Form top surface of roadway to match superstructure. Quantity of concrete is included with superstructure.

Drill 1/4" φ holes & grout in V4 bars at 18" Alt. Cts.



**SECTION B-B**

**EAST ABUTMENT**  
F.A. ROUTE 567 SECTION JR-WRS (82)  
COOK COUNTY  
STA. 56+60.5

Rev 6/24/85 JE

HAZLET & ERDAL  
CONSULTING ENGINEERS  
FILE NO. 541-03  
DRAWN BY: HKN  
CHECKED BY: CGH  
APPROVED BY:



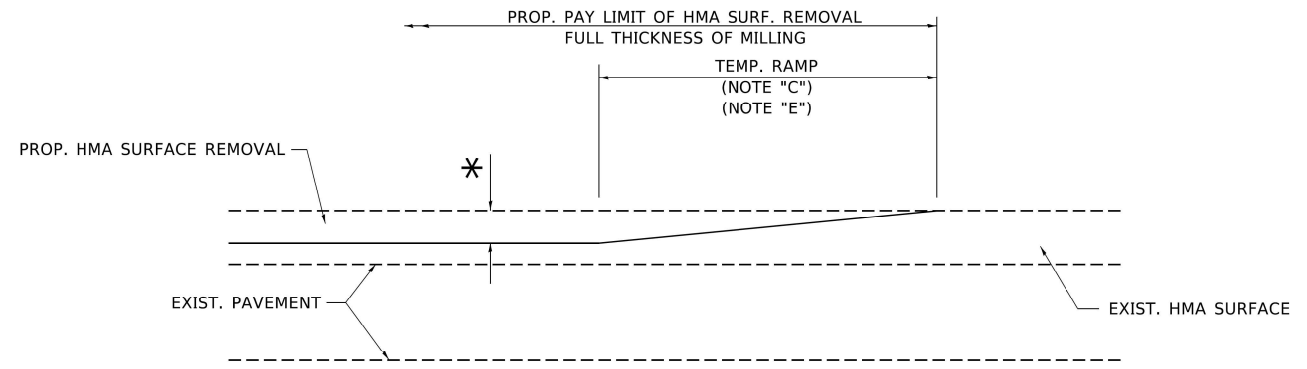
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PLOT DATE = 2/3/2021	CHECKED - CEH	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
STRUCTURE NO. 016-0472

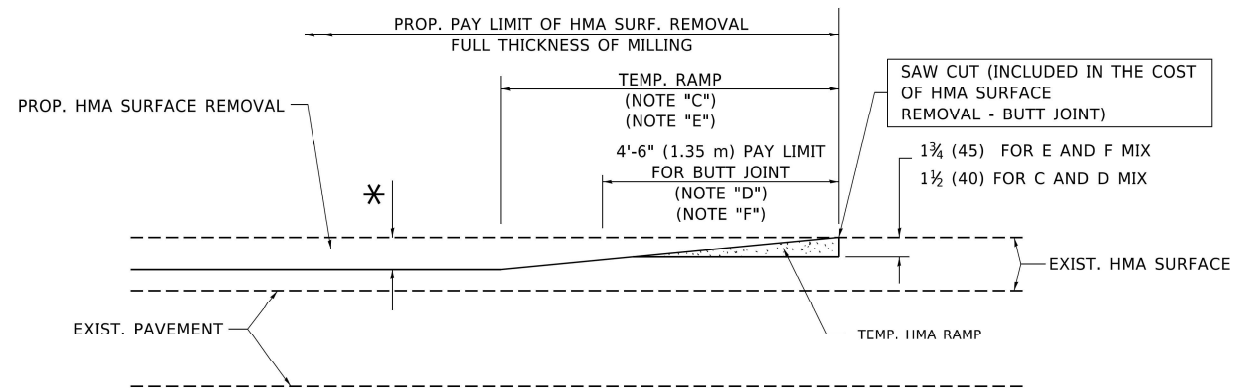
SHEET NO. 20 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	35
CONTRACT NO. 62M40			NHPD-39KMG01	



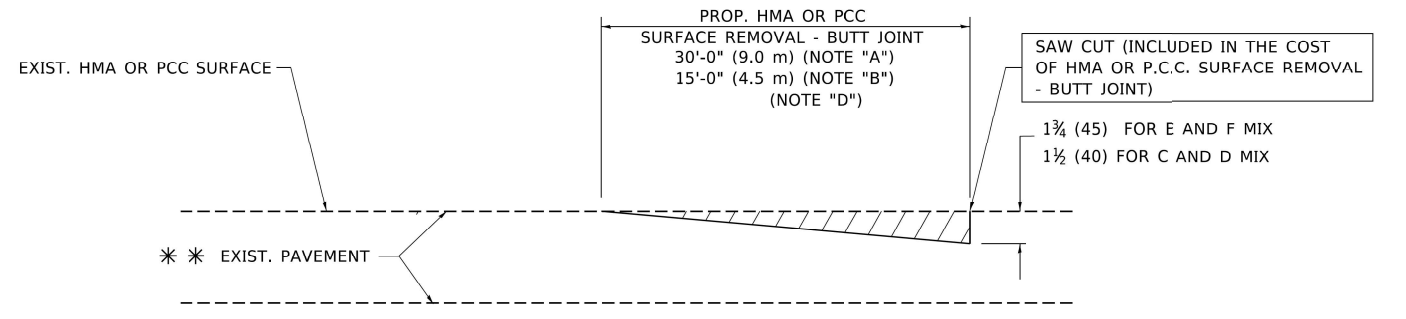
**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

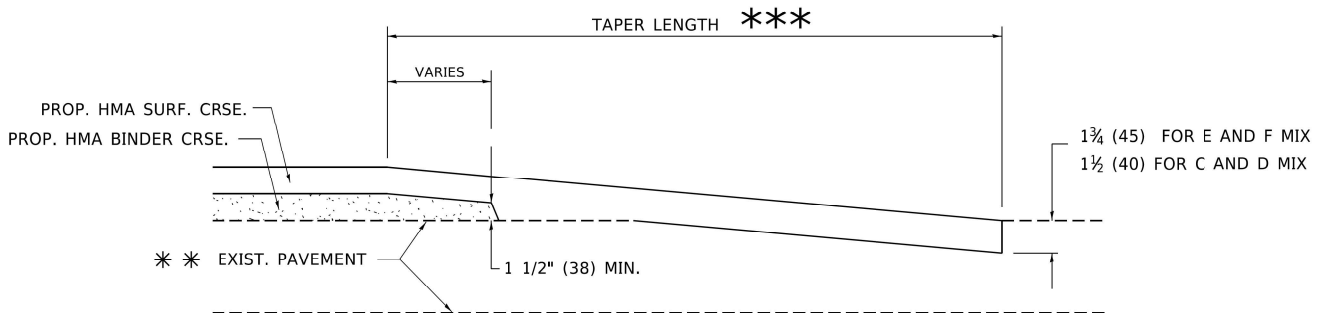


**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

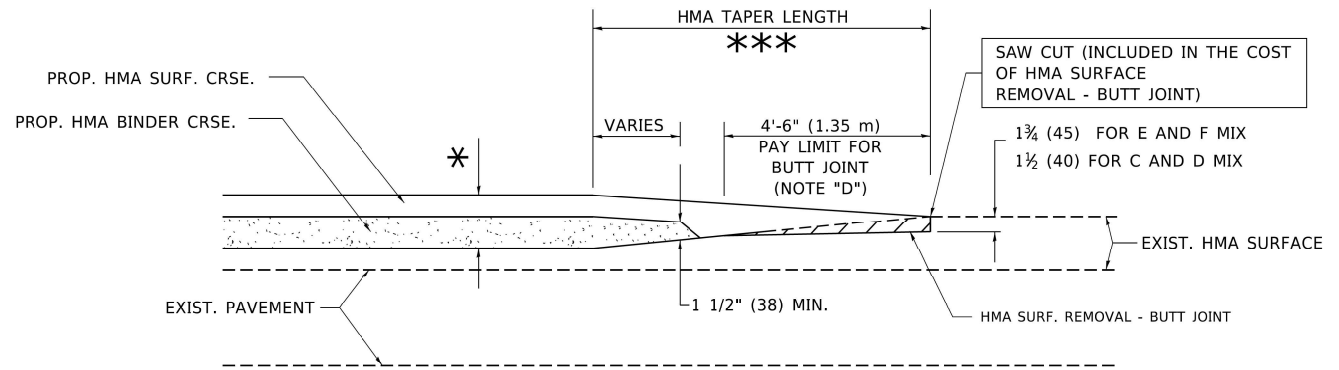
**NOTES**

- 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.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

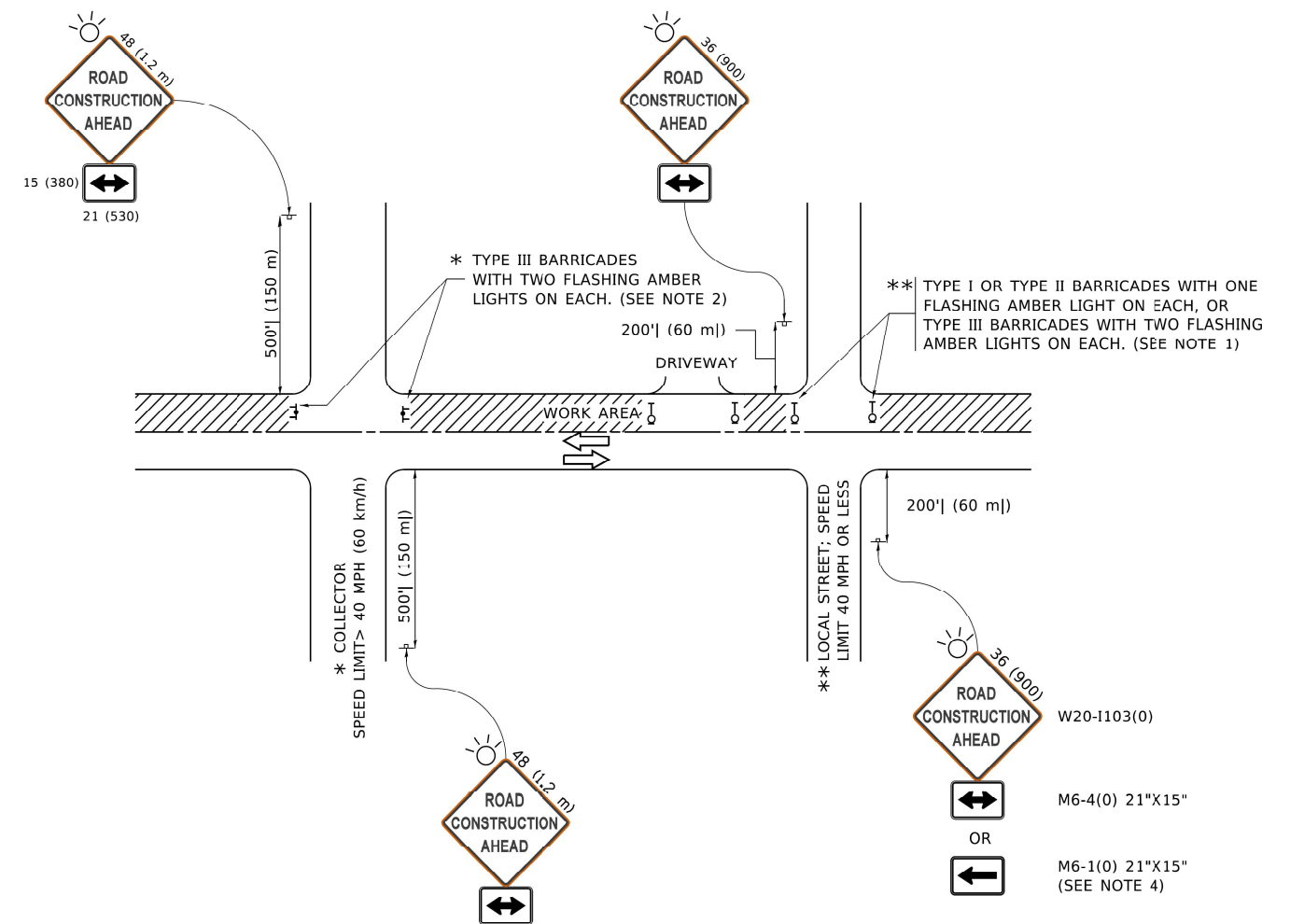
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PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	36
<b>BD400-05 BD32</b>		CONTRACT NO. 62M40		
ILLINOIS		FED. AID PROJECT		

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**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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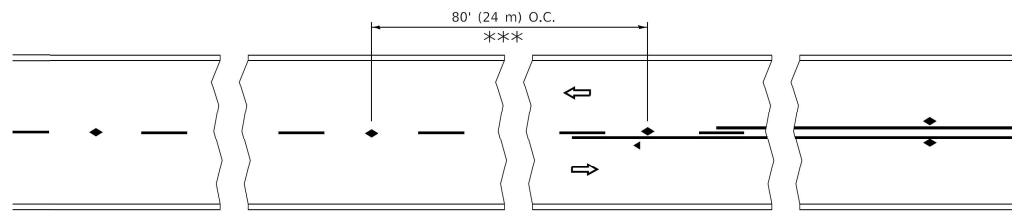
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	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

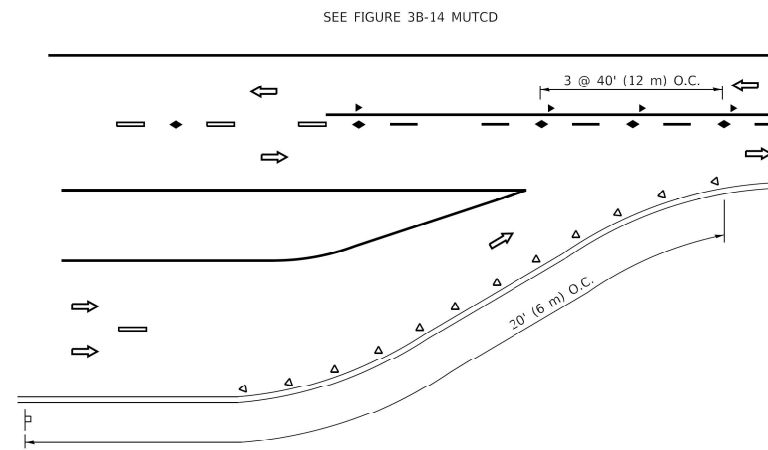
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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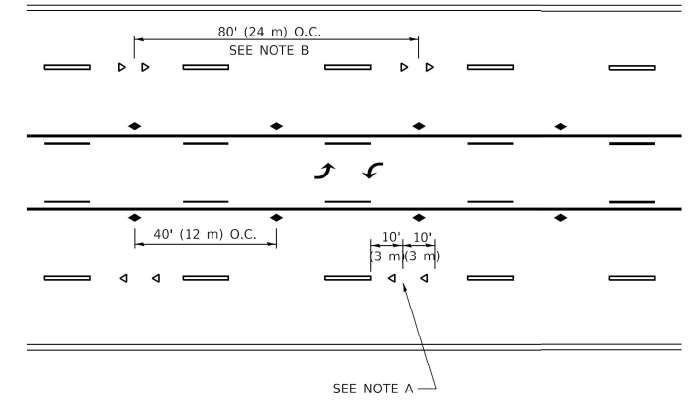


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

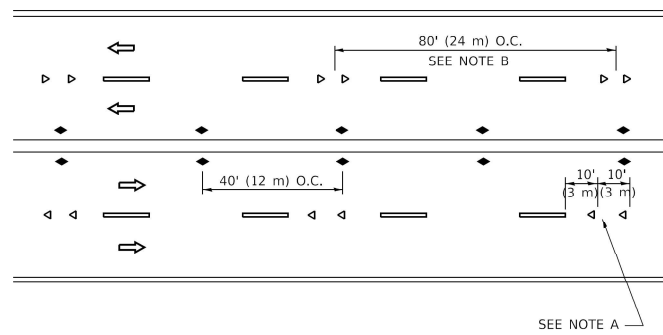
**TWO-LANE/TWO-WAY**



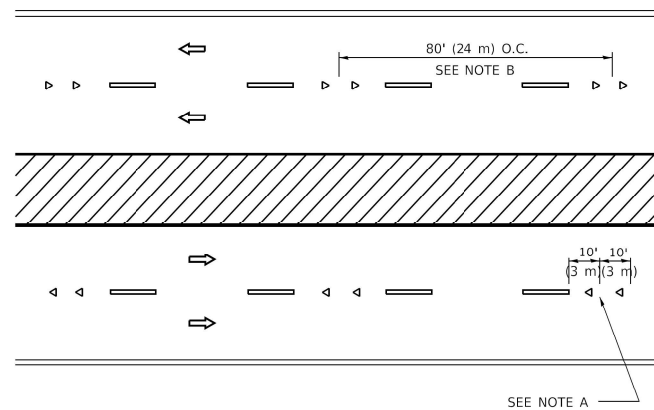
**LANE REDUCTION TRANSITION**



**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**

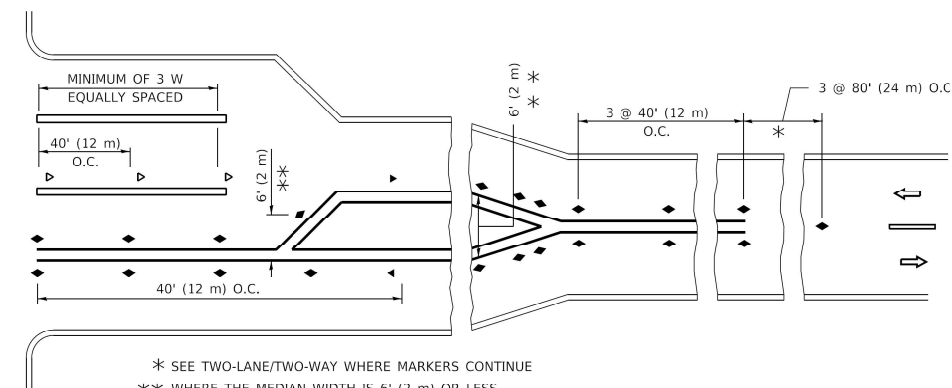
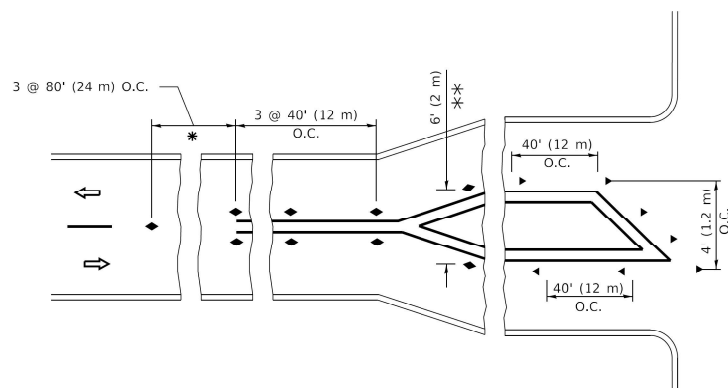
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO WAY AMBER MARKER

**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 CURBS 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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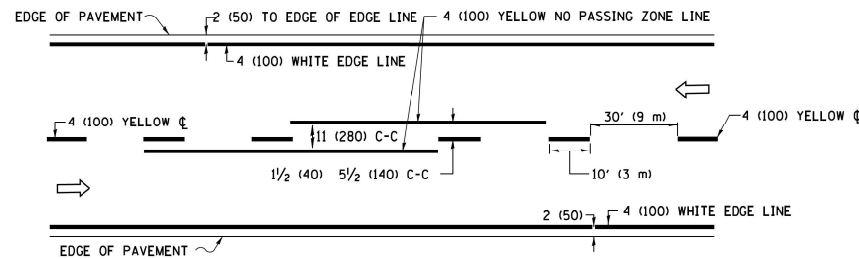
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

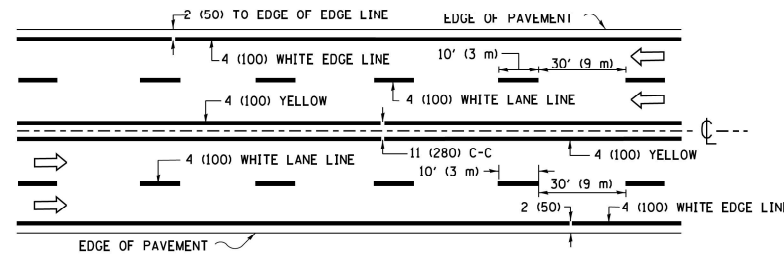
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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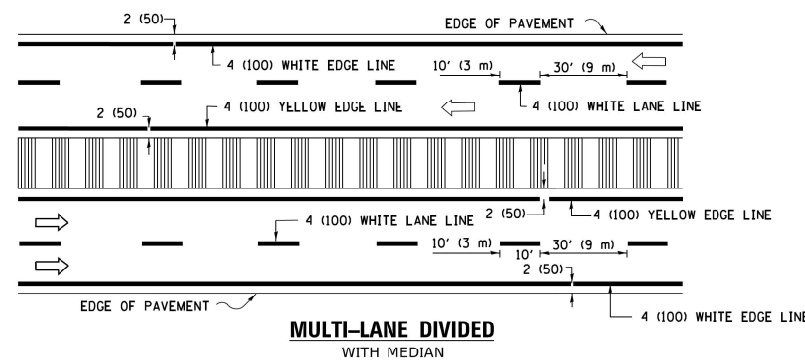
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	38
TC-11		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	



**2-LANE ROADWAY**

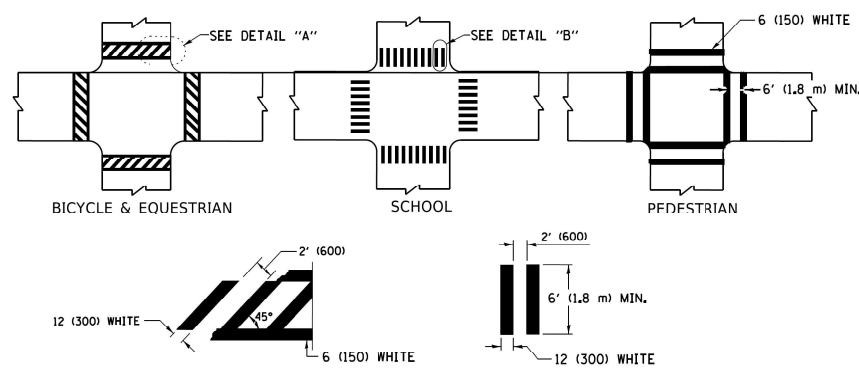


**MULTI-LANE UNDIVIDED**



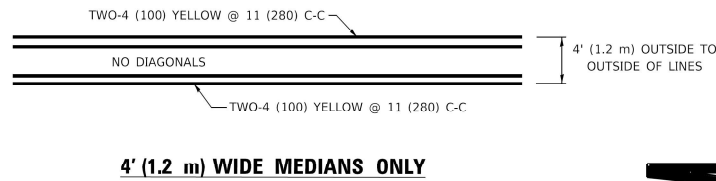
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

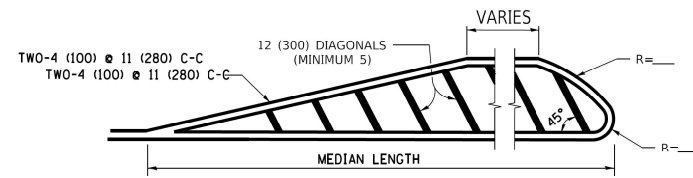


**TYPICAL CROSSWALK MARKING**

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

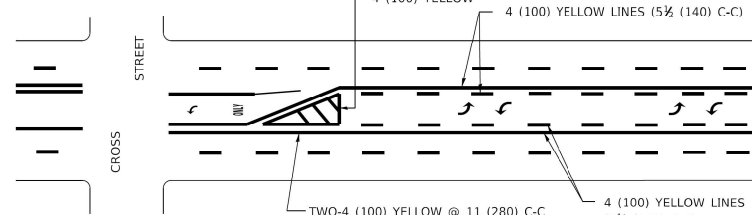


**4' (1.2 m) WIDE MEDIANS ONLY**



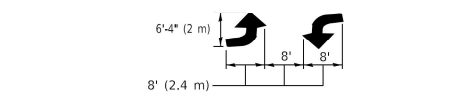
**MEDIANS OVER 4' (1.2 m) WIDE**

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**

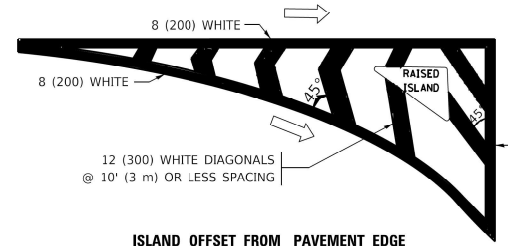
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



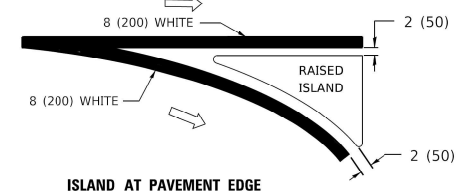
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* 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".

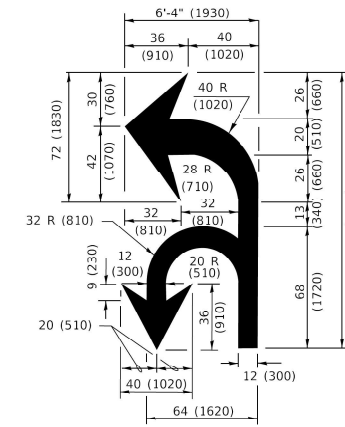


**ISLAND OFFSET FROM PAVEMENT EDGE**

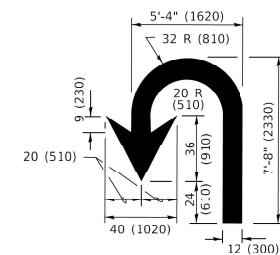


**ISLAND AT PAVEMENT EDGE**

**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	2 @ 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 <sup>2</sup> EACH) "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

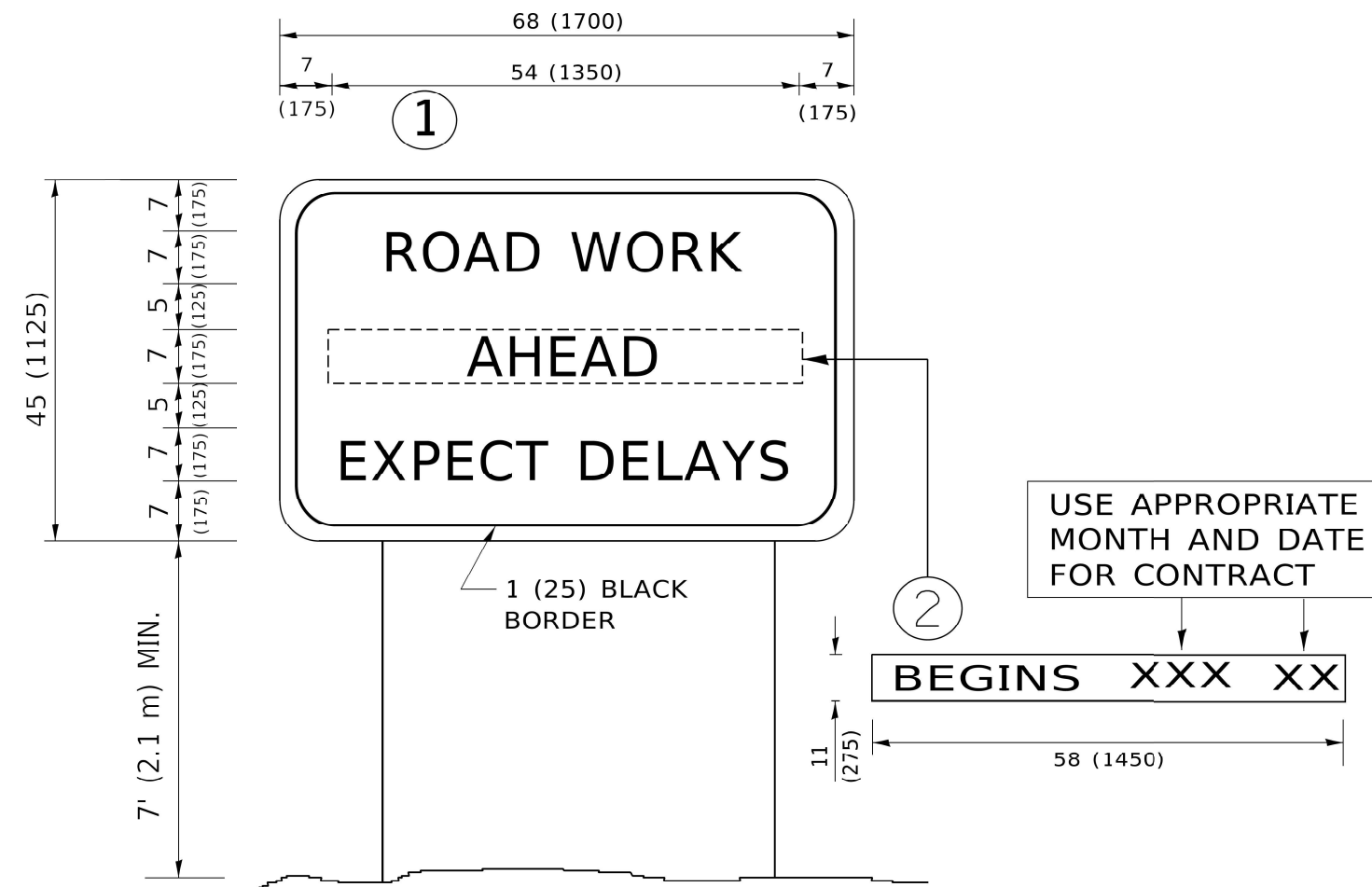
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DATE: 3/4/2019 10:31:37 AM User: footemj

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PLOT SCALE = 50.0000" / 1"	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 12-21-15
	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	39
<b>TC-13</b>		ILLINOIS	CONTRACT NO. 62M40	
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.

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 PROJECT: ...

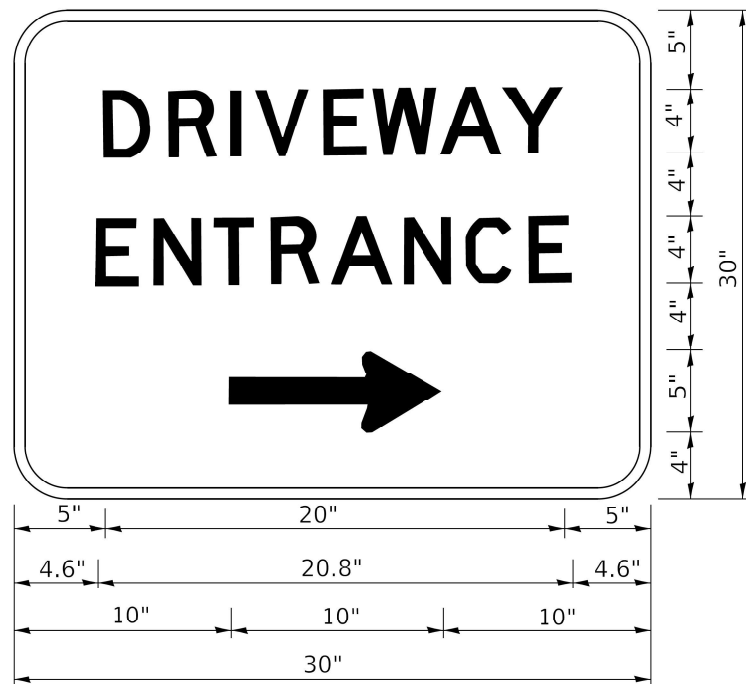
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PLOT SCALE = 50.0000" / ft.	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ARTERIAL ROAD INFORMATION SIGN</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	40
<b>TC-22</b>		ILLINOIS	CONTRACT NO. 62M40	
ILLINOIS FED. AID PROJECT				





3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	2020-159-BR	COOK	41	41
<b>TC-26</b>		ILLINOIS	CONTRACT NO. 62M40	
		ILLINOIS	FED. AID PROJECT	