

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	1
ILLINOIS			CONTRACT NO. 62F63	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

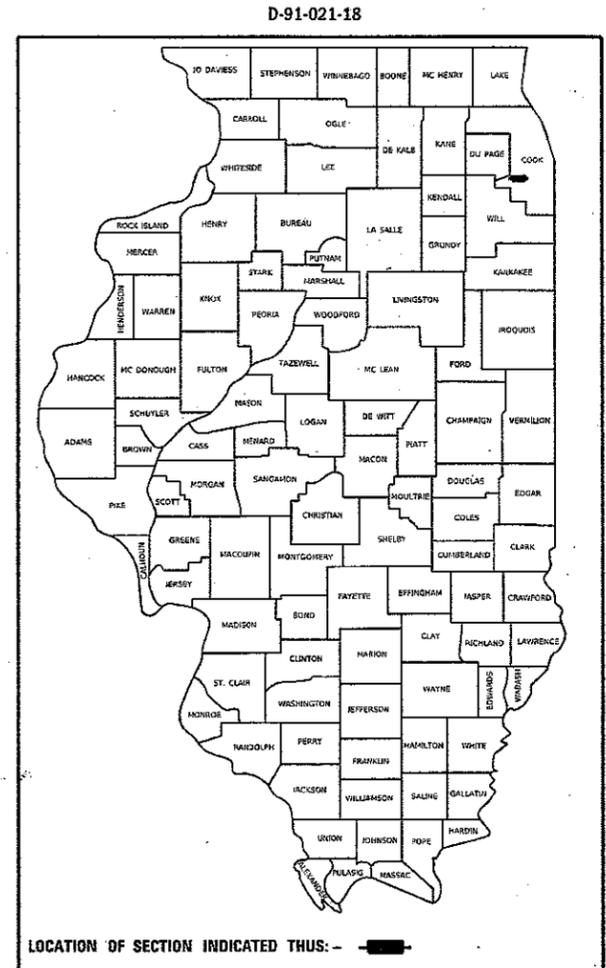
THIS PROJECT IS LOCATED IN THE VILLAGES OF
LEMONT, PALOS HILLS, AND WILLOW SPRINGS

TRAFFIC DATA:
ADT = 6,100 (2017)
SPEED LIMIT = 50 MPH

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 1579 (107TH ST.)
IL 171 (ARCHER AVE.) TO KEAN AVE.
SECTION: 3095RS & T-3
PROJECT: STP-YZHC (804)
RESURFACING (3P) & DRAINAGE
COOK COUNTY

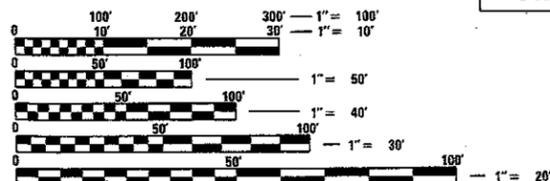
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RESURFACING OMISSION:
STA 231+80 TO
STA 239+29

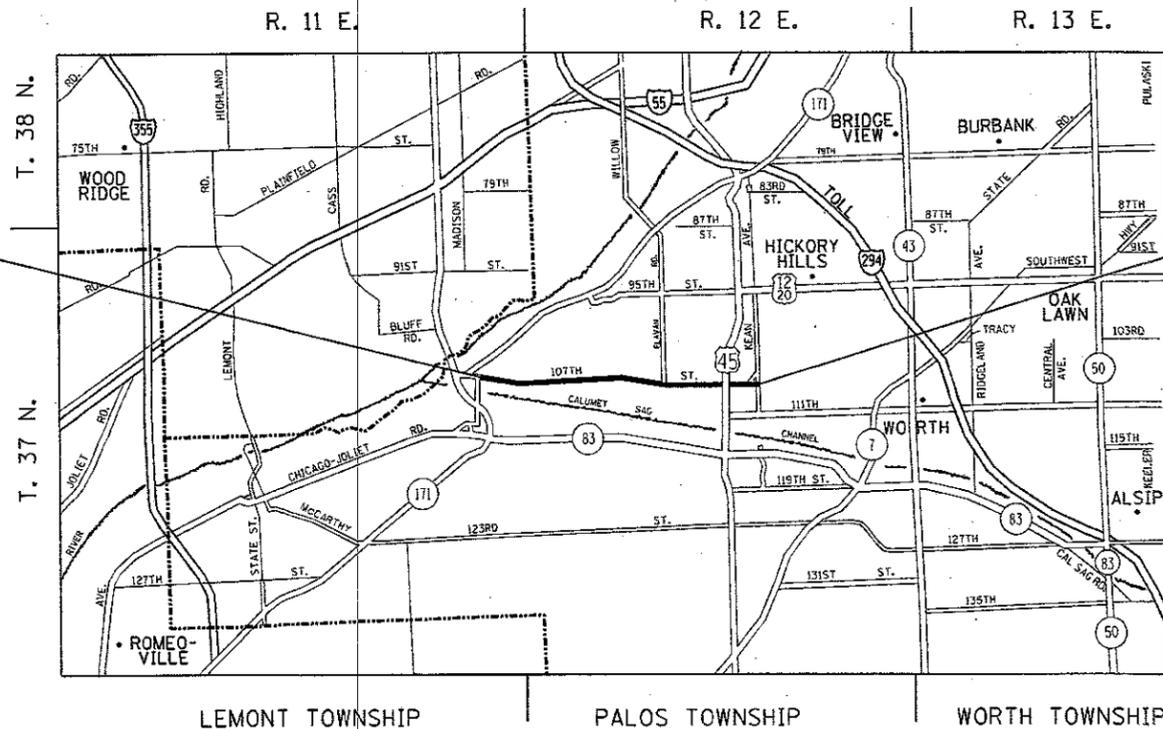
PROJECT BEGINS
STA 14+11

PROJECT ENDS
STA 259+28



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



PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62F63

GROSS & NET LENGTH = 24,517 FT. = 4.643 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 24 20 18

Anthony J. Dringby REGIONAL ENGINEER
Mar 23 20 18

aw ENGINEER OF DESIGN AND ENVIRONMENT
Mar 23 20 18

Paul P. Ch...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	80% FED 20% STATE 0004				
20200100	EARTH EXCAVATION	CU YD	15		15				
20800150	TRENCH BACKFILL	CU YD	8		8				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	29	17	12				
21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	75		75				
25000115	SEEDING, CLASS 1B	ACRE	0.02		0.02				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2		2				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2		2				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2		2				
25003115	INTERSEEDING, CLASS 1B	ACRE	2.25	2.25					
25003310	INTERSEEDING, CLASS 4	ACRE	16.5	16.5					
25003324	INTERSEEDING, CLASS 5B	ACRE	0.25	0.25					
25100630	EROSION CONTROL BLANKET	SO YD	75		75				
25200110	SODDING, SALT TOLERANT	SO YD	29	17	12				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	45110	45110					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	101.3	101.3					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	80% FED 20% STATE 0004				
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	2743	2743					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	281	281					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	287	287					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	5671	5671					
42001300	PROTECTIVE COAT	SO YD	58	34	24				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	1009	1009					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	66493	66493					
44002224	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 6"	SO YD	853	853					
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	200	200					
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	300	300					
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	300	300					
44201827	CLASS D PATCHES, TYPE II, 15 INCH	SO YD	26		26				
44201833	CLASS D PATCHES, TYPE IV, 15 INCH	SO YD	32		32				

* SPECIALTY ITEMS

15

13

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PLOT DATE = 2/5/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RIE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	3
CONTRACT NO. 62F63				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	80% FED 20% STATE 0004		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1922	1922			
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	277	277			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	781	781			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	257	257			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5777	5777			
* 72000100	SIGN PANEL - TYPE 1	SO FT	24.25	24.25			
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	5			
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	47.5	47.5			
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	3	3			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	443	443			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	77336	77336			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1922	1922			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	277	277			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	781	781			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	257	257			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	80% FED 20% STATE 0004		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	966	966			
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	38	38			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	800	800			
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	750	750			
X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	50	50			
X0327120	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	ACRE	20.5	20.5			
X1900002	INTERSEEDING, CLASS 4 (MODIFIED)	ACRE	1.25	1.25			
X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	0.75	0.75			
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	217	217			
X2503110	MOWING (SPECIAL)	ACRE	20.5	20.5			
X2503323	INTERSEEDING, CLASS 5A (MODIFIED)	ACRE	1.25	1.25			
X5420612	PIPE CULVERTS TO BE CLEANED 12"	FOOT	30		30		
X5420618	PIPE CULVERTS TO BE CLEANED 18"	FOOT	45		45		
X5420624	PIPE CULVERTS TO BE CLEANED 24"	FOOT	51		51		

* SPECIALTY ITEMS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

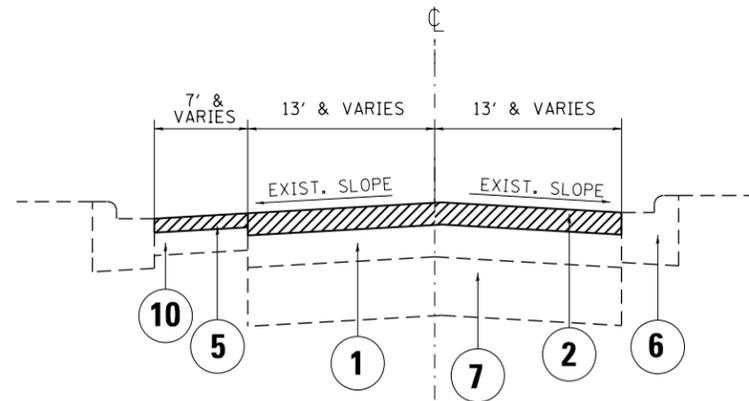
**107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	5
CONTRACT NO. 62F63				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

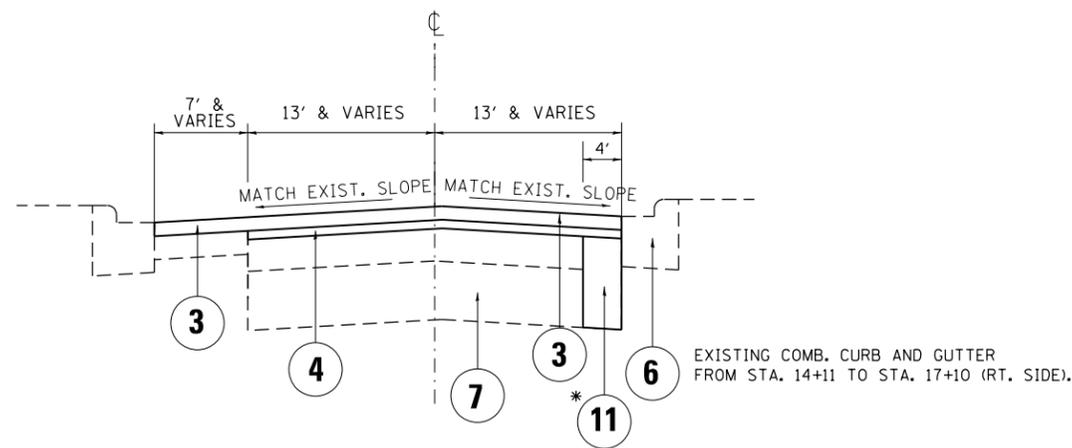
Revised

107TH STREET



EXIST. TYPICAL SECTION
STA. 14+11 TO STA. 27+58

107TH STREET



PROP. TYPICAL SECTION
STA. 14+11 TO STA. 27+58

LEGEND:

- ① EXISTING HMA SURFACE COURSE ±6"
 - ② PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
 - ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
 - ④ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
 - ⑥ EXISTING COMB. CURB AND GUTTER
 - ⑦ EXISTING P.C.C. PAVEMENT 9"-7"-9"
 - ⑧ EXISTING AGGREGATE SHOULDER
 - ⑨ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑩ EXISTING HMA SHOULDER
 - ⑪ PROPOSED CLASS D PATCHES, TYPE IV.
- * CLASS D PATCH WILL BE USED TO REPLACE THE 4' ON EITHER SIDE ALONG THE LENGTH OF THE JOB AND SHALL BE DONE AS FULL DEPTH AT LOCATIONS INDICATED BY THE RESIDENT ENGINEER.

NOTES:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING PER DISTRICT DETAIL BD-22.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5 mm); 1 1/2"	4% @ 70 GYR.	OCP
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	OCP
PATCHING	CLASS D PATCH (HMA BINDER IL-19 mm), 9"	4% @ 70 GYR.	QC/QA
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (OCP)

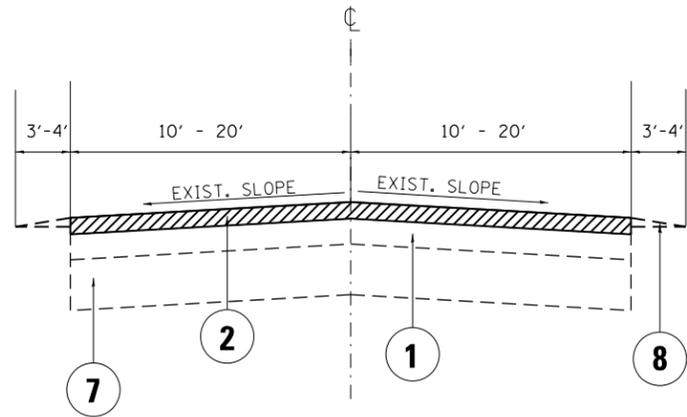
NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 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 DISTRICT ONE SPECIAL PROVISIONS.

NOTE 3: FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE 4: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

107TH STREET



EXIST. TYPICAL SECTION

STA. 27+58 TO STA. 231+80
STA. 239+29 TO STA. 259+28

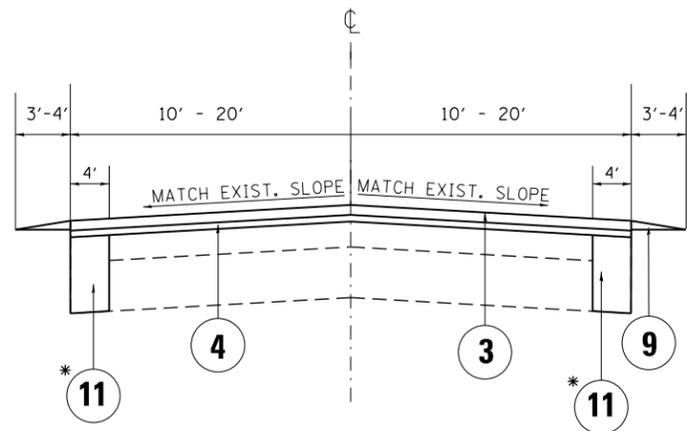
LEGEND:

- ① EXISTING HMA SURFACE COURSE ±6"
 - ② PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
 - ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
 - ④ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 - ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
 - ⑥ EXISTING COMB. CURB AND GUTTER
 - ⑦ EXISTING P.C.C. PAVEMENT 9"-7"-9"
 - ⑧ EXISTING AGGREGATE SHOULDER
 - ⑨ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑩ EXISTING HMA SHOULDER
 - ⑪ PROPOSED CLASS D PATCH, TYPE IV.
- * CLASS D PATCH WILL BE USED TO REPLACE THE 4' ON EITHER SIDE ALONG THE LENGTH OF THE JOB AND SHALL BE DONE AS FULL DEPTH AT LOCATIONS INDICATED BY THE RESIDENT ENGINEER.

NOTES:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING PER DISTRICT DETAIL BD-22.

107TH STREET



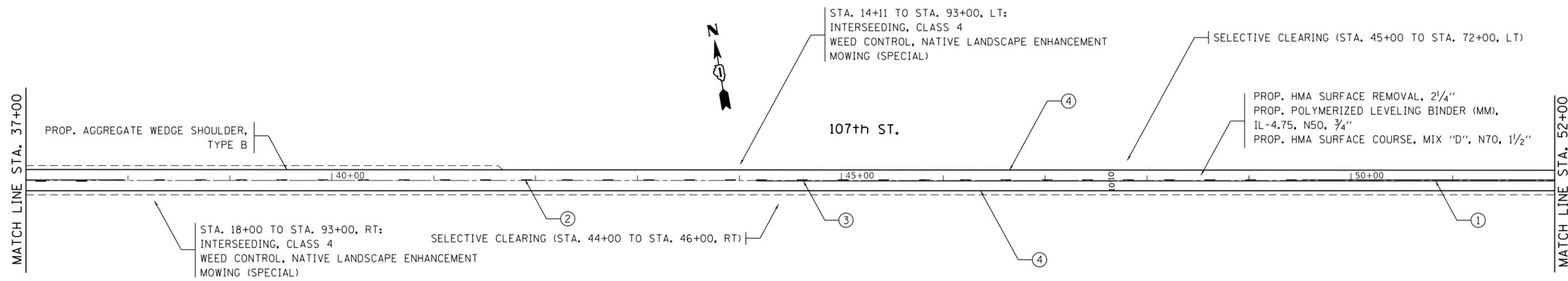
PROP. TYPICAL SECTION

STA. 27+58 TO STA. 231+80
STA. 239+29 TO STA. 259+28

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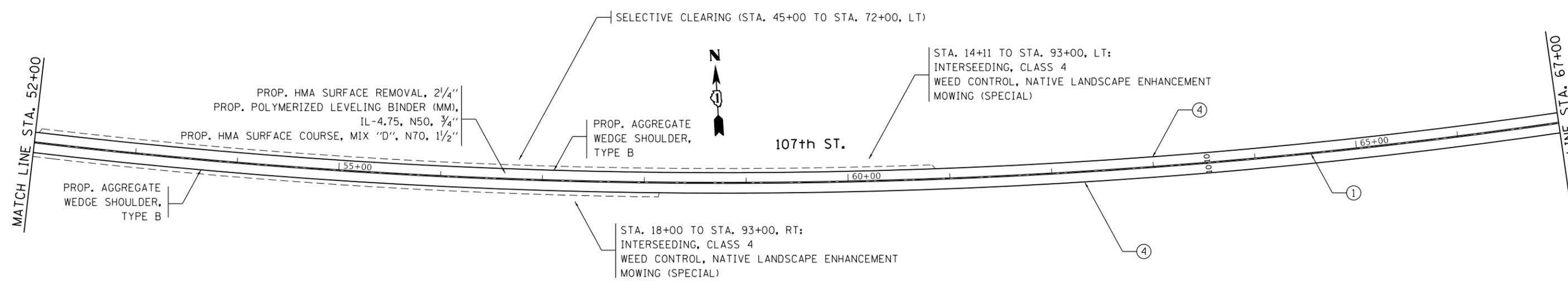
MATCH LINE STA. 37+00

MATCH LINE STA. 52+00



PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW LINE @ 45 DEG, MINIMUM FIVE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LINE @ 45 DEG.
⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 10' DASH - 30' SKIP (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES, 12" DIAGONALS @ 45 DEG.
⑥ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 6", SKIP-DASH WHITE LINE, 3' DASH- 9' SKIP (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE (TYP.)	⑯ THERMOPLASTIC PAVEMENT MARKING, YIELD LINE (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑰ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
⑨ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE CROSSWALK LINE @ 45 DEG, 2' APART (TYP.)	



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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	10
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 97+00

MATCH LINE STA. 112+00

PROP. HMA SURFACE REMOVAL, 2 1/4"
PROP. POLYMERIZED LEVELING BINDER (MM),
IL-4.75, N50, 3/4"
PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

STA. 95+00 TO STA. 110+00, LT:
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

STA. 110+00 TO STA. 117+00, LT:
INTERSEEDING, CLASS 4 (MODIFIED)
INTERSEEDING, CLASS 5A (MODIFIED)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

STA. 95+00 TO STA. 110+00, RT:
INTERSEEDING, CLASS 4
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

PROP. AGGREGATE
WEDGE SHOULDER,
TYPE B

SAGANASHKEE
CENTRAL
ENTRANCE 2

107th ST.

PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW LINE @ 45 DEG, MINIMUM FIVE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LINE @ 45 DEG.
⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 10' DASH - 30' SKIP (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES, 12" DIAGONALS @ 45 DEG.
⑥ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 6", SKIP-DASH WHITE LINE, 3' DASH- 9' SKIP (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE (TYP.)	⑯ THERMOPLASTIC PAVEMENT MARKING, YIELD LINE (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑰ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
⑨ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE CROSSWALK LINE @ 45 DEG, 2' APART (TYP.)	

MATCH LINE STA. 112+00

MATCH LINE STA. 127+00

PROP. AGGREGATE
WEDGE SHOULDER,
TYPE B

STA. 110+00 TO STA. 117+00, LT:
INTERSEEDING, CLASS 4 (MODIFIED)
INTERSEEDING, CLASS 5A (MODIFIED)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

PROP. HMA SURFACE REMOVAL, 2 1/4"
PROP. POLYMERIZED LEVELING BINDER (MM),
IL-4.75, N50, 3/4"
PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2"

STA. 117+00 TO STA. 173+00, LT:
INTERSEEDING, CLASS 4
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

107th ST.

SELECTIVE CLEARING (STA. 124+00 TO STA. 126+00, LT)

SAGANASHKEE
CENTRAL
ENTRANCE 1

STA. 120+00 TO STA. 173+00, RT:
INTERSEEDING, CLASS 4
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

PROP. AGGREGATE
WEDGE SHOULDER,
TYPE B

NOTE: FACE OF PROP. GUARDRAIL SHALL BE
PLACED 1' FROM EDGE OF PAVEMENT.

STA. 112+00 TO STA. 115+00, RT:
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
MOWING (SPECIAL)

ROADWAY LEGEND:

- (A) PROP. SPBGR, TY A, 9' POSTS
- PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- PROP. TERMINAL MARKER - DIRECT APPLIED
- PROP. GUARDRAIL REFLECTORS, TYPE A

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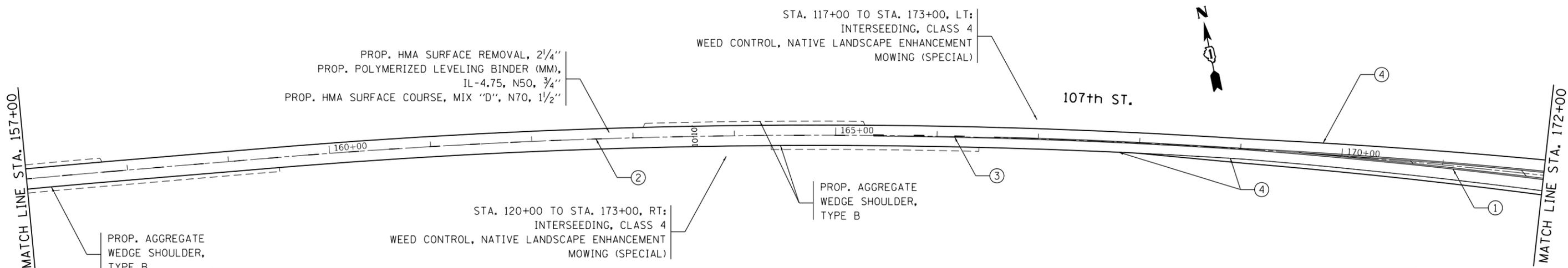
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PLOT DATE = 2/2/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
ROADWAY AND PAVEMENT MARKING PLAN

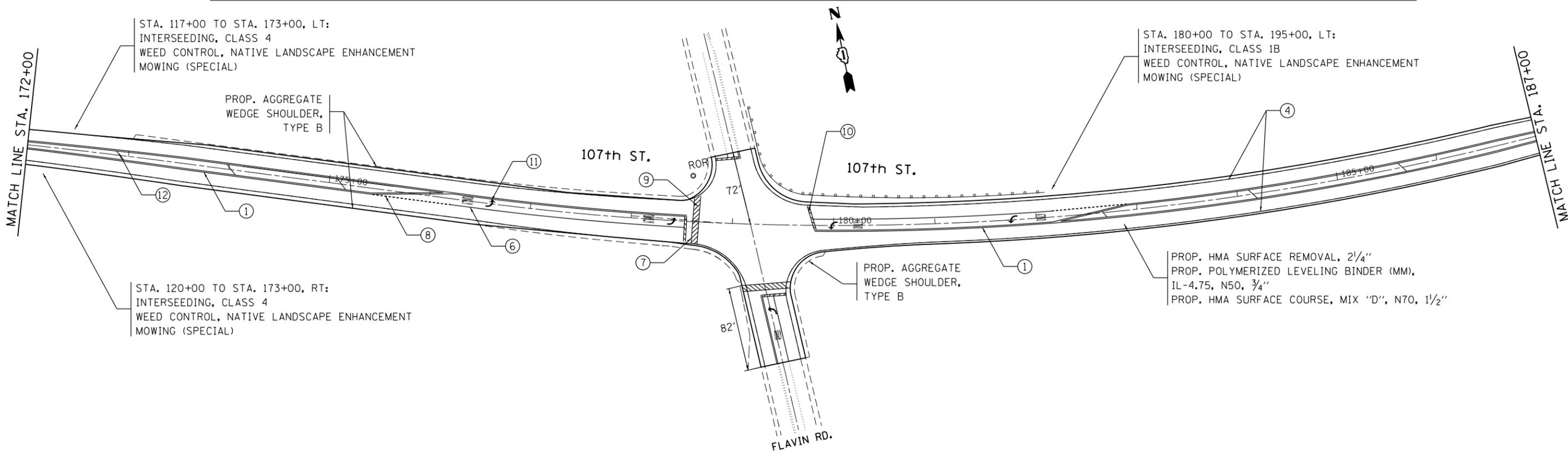
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095R5 & T-3	COOK	34	12
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW LINE @ 45 DEG, MINIMUM FIVE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LINE @ 45 DEG.
⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 10' DASH - 30' SKIP (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES, 12" DIAGONALS @ 45 DEG.
⑥ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 6", SKIP-DASH WHITE LINE, 3' DASH- 9' SKIP (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE (TYP.)	⑯ THERMOPLASTIC PAVEMENT MARKING, YIELD LINE (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑰ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
⑨ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE CROSSWALK LINE @ 45 DEG, 2' APART (TYP.)	



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

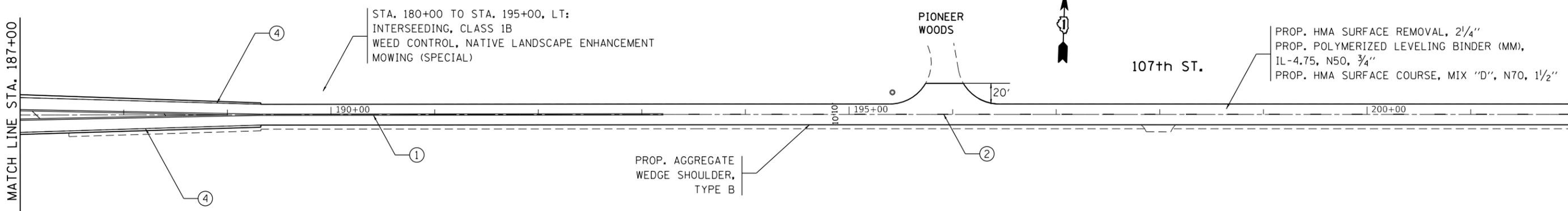
107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095R5 & T-3	COOK	34	14
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 187+00

MATCH LINE STA. 202+00

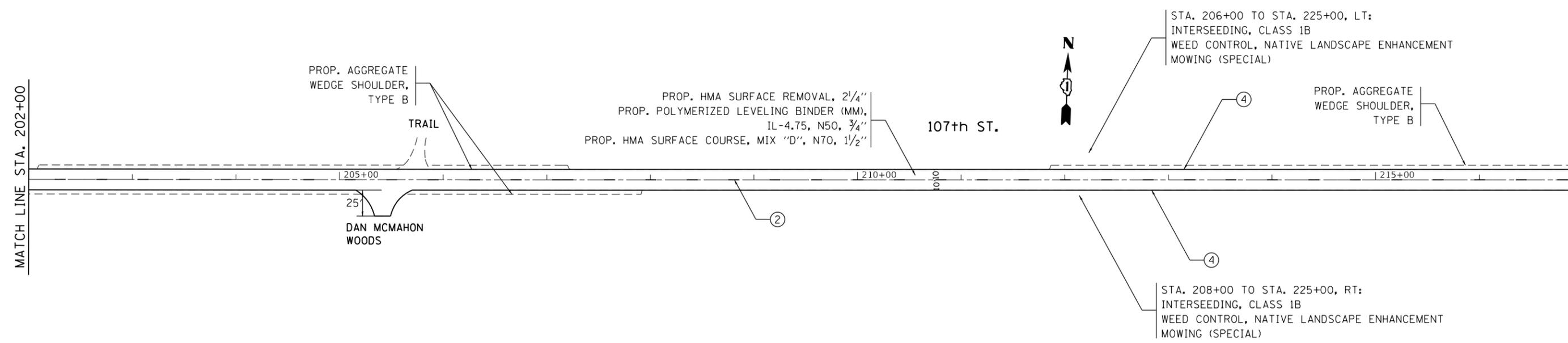


PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW LINE @ 45 DEG, MINIMUM FIVE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LINE @ 45 DEG.
⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 10' DASH - 30' SKIP (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES, 12" DIAGONALS @ 45 DEG.
⑥ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 6", SKIP-DASH WHITE LINE, 3' DASH- 9' SKIP (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE (TYP.)	⑯ THERMOPLASTIC PAVEMENT MARKING, YIELD LINE (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑰ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
⑨ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE CROSSWALK LINE @ 45 DEG, 2' APART (TYP.)	

MATCH LINE STA. 202+00

MATCH LINE STA. 217+00



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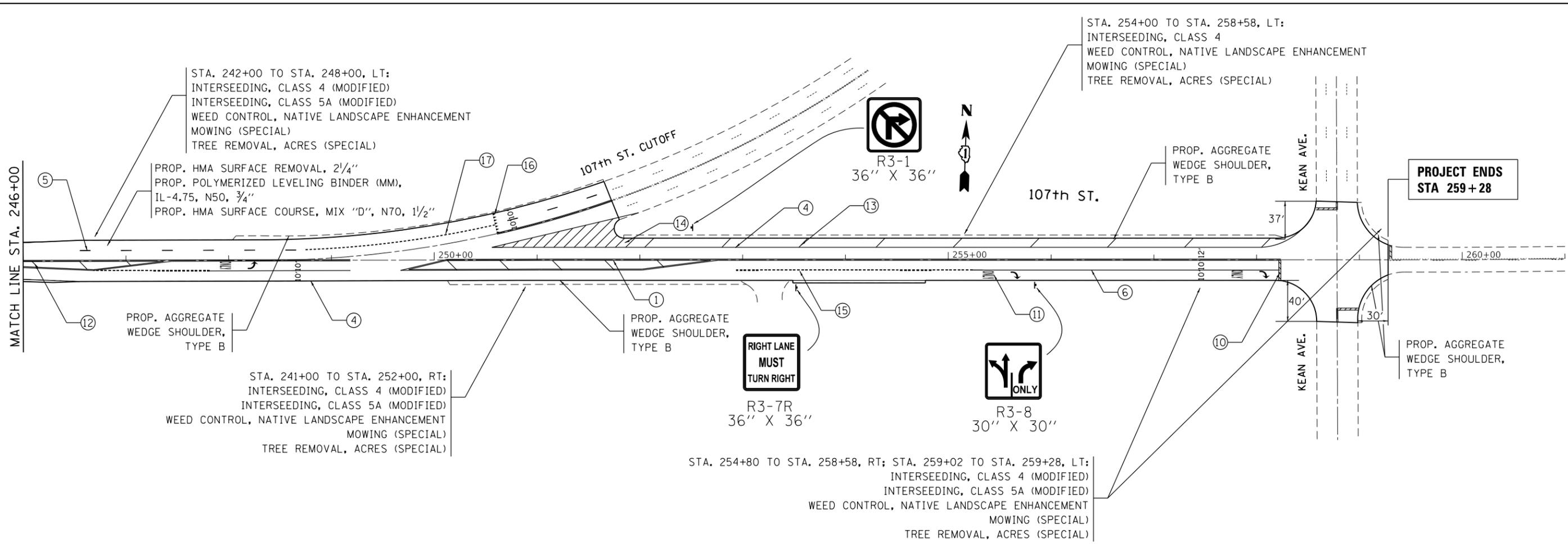
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	15
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND:

① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW LINE @ 45 DEG, MINIMUM FIVE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE LINE @ 45 DEG.
⑤ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 10' DASH - 30' SKIP (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES, 12" DIAGONALS @ 45 DEG.
⑥ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ THERMOPLASTIC PAVEMENT MARKING, 6", SKIP-DASH WHITE LINE, 3' DASH- 9' SKIP (TYP.)
⑦ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE (TYP.)	⑯ THERMOPLASTIC PAVEMENT MARKING, YIELD LINE (TYP.)
⑧ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑰ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
⑨ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE CROSSWALK LINE @ 45 DEG, 2' APART (TYP.)	

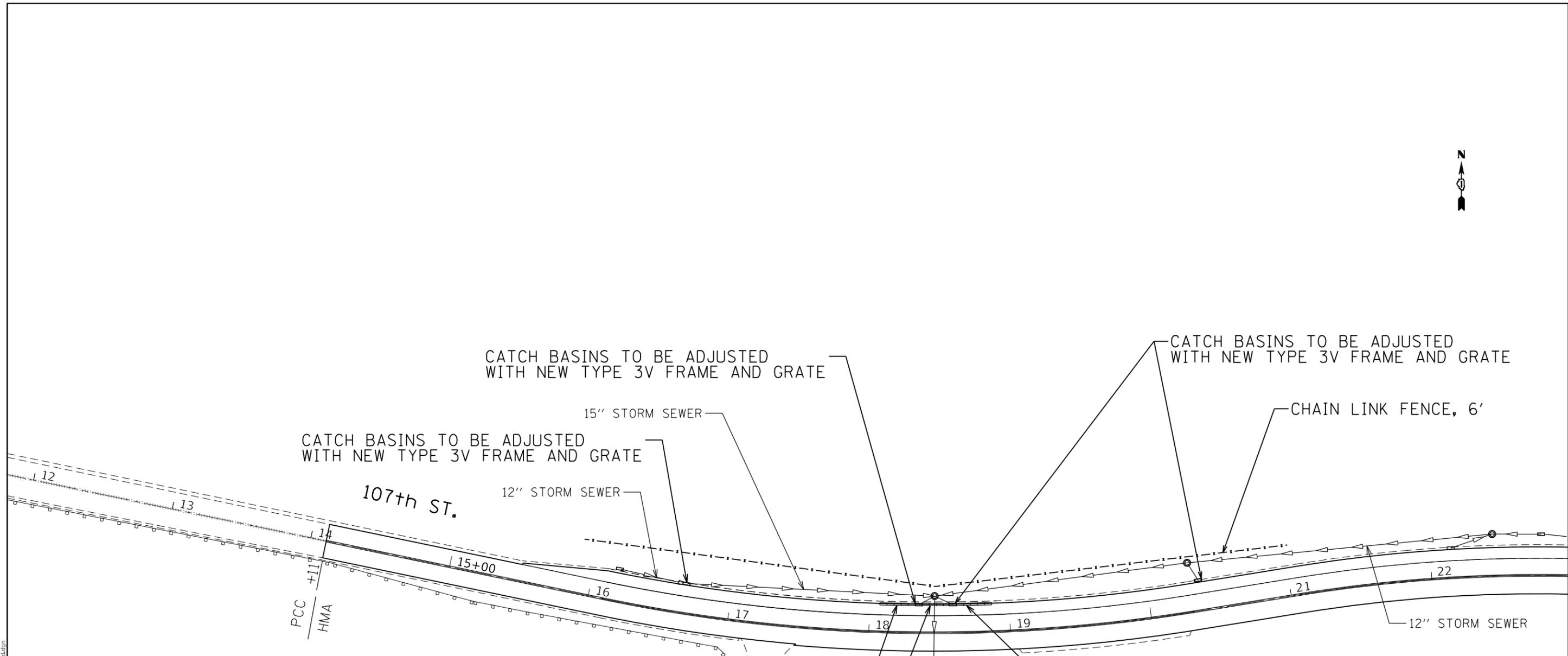
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PLOT DATE = 2/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.) ROADWAY AND PAVEMENT MARKING PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	17
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				



LEGEND		
SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE-CENTERLINE AND STATIONING		
RIGHT OF WAY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS) EXIST, ONLY INTERPRETED DRAINAGE AREA TO OUTLET		
INTERPRETED DRAINAGE AREA SUB-DIVIDE		
FLOODPLAIN BOUNDARY		
FLOODWAY BOUNDARY		
SWALE		
DITCH		
OUTLET		
SHEET FLOW		
OVERFLOW		
CHANNEL		
DIVERTED AREA (PROPOSED ONLY)		
CULVERT SIZE - TYPE		
BRIDGE LOCATION - BRIDGE NO.		
PUMP STATION LOCATION - PUMP STA. NO.		
LOCAL STORM SEWER		
STORM SEWER		
SANITARY SEWER		
COMBINED SEWER		
CULVERT END SECTION		
CATCH BASIN		
HEADWALL/ENDWALL		
INLET		
MANHOLE		

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE

CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE

CHAIN LINK FENCE, 6'

PCC
HMA

107th ST.

SLOTTED DRAIN 12" WITH 2 1/2" SLOT (TO BE CONNECTED TO THE INLET)

SLOTTED DRAIN 12" WITH 2 1/2" SLOT (TO BE CONNECTED TO THE INLET)

SLOTTED DRAIN 12" WITH 2 1/2" SLOT (TO BE CONNECTED TO BOTH INLETS)

24" STORM SEWER

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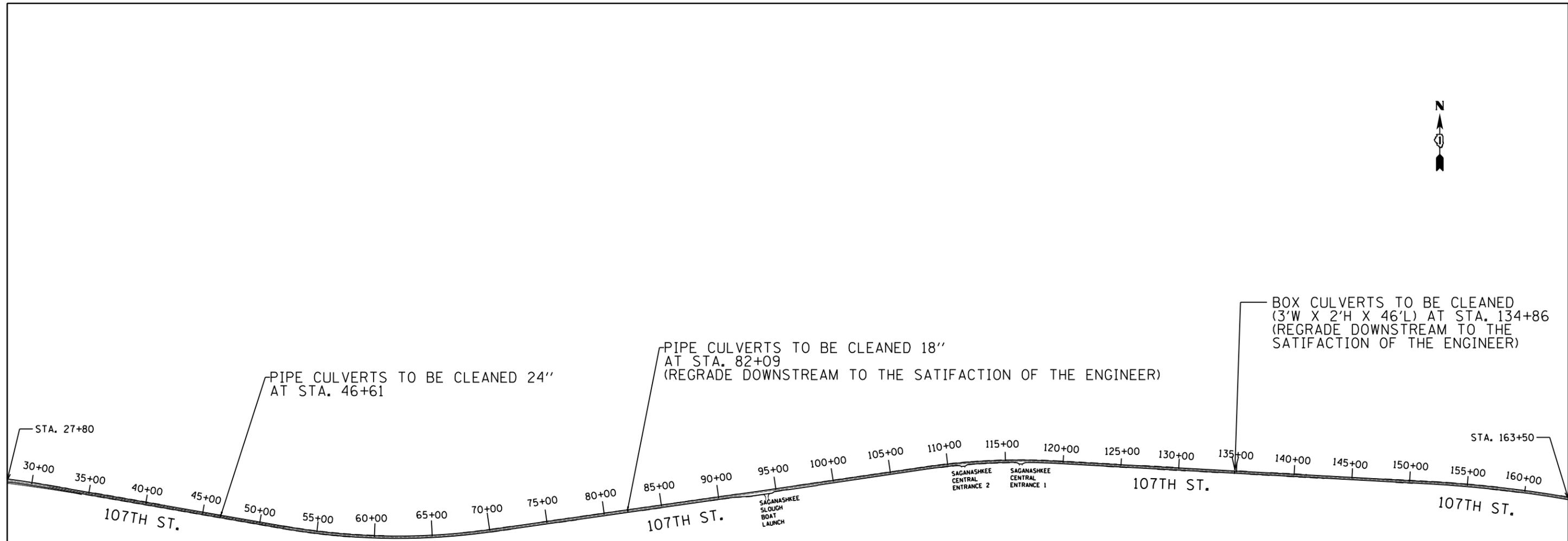
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
DRAINAGE PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	18
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				



LEGEND

SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE-CENTERLINE AND STATIONING		
RIGHT OF WAY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS) EXIST. ONLY		
INTERPRETED DRAINAGE AREA TO OUTLET		
INTERPRETED DRAINAGE AREA SUB-DIVIDE		
FLOODPLAIN BOUNDARY		
FLOODWAY BOUNDARY		
SWALE		
DITCH		
OUTLET		
SHEET FLOW		
OVERFLOW		
CHANNEL		
DIVERTED AREA (PROPOSED ONLY)		
CULVERT SIZE - TYPE		
BRIDGE LOCATION - BRIDGE NO.		
PUMP STATION LOCATION - PUMP STA. NO.		
LOCAL STORM SEWER		
STORM SEWER		
SANITARY SEWER		
COMBINED SEWER		
CULVERT END SECTION		
CATCH BASIN		
HEADWALL/ENDWALL		
INLET		
MANHOLE		

USER NAME = tariqfm	DESIGNED -	REVISED -
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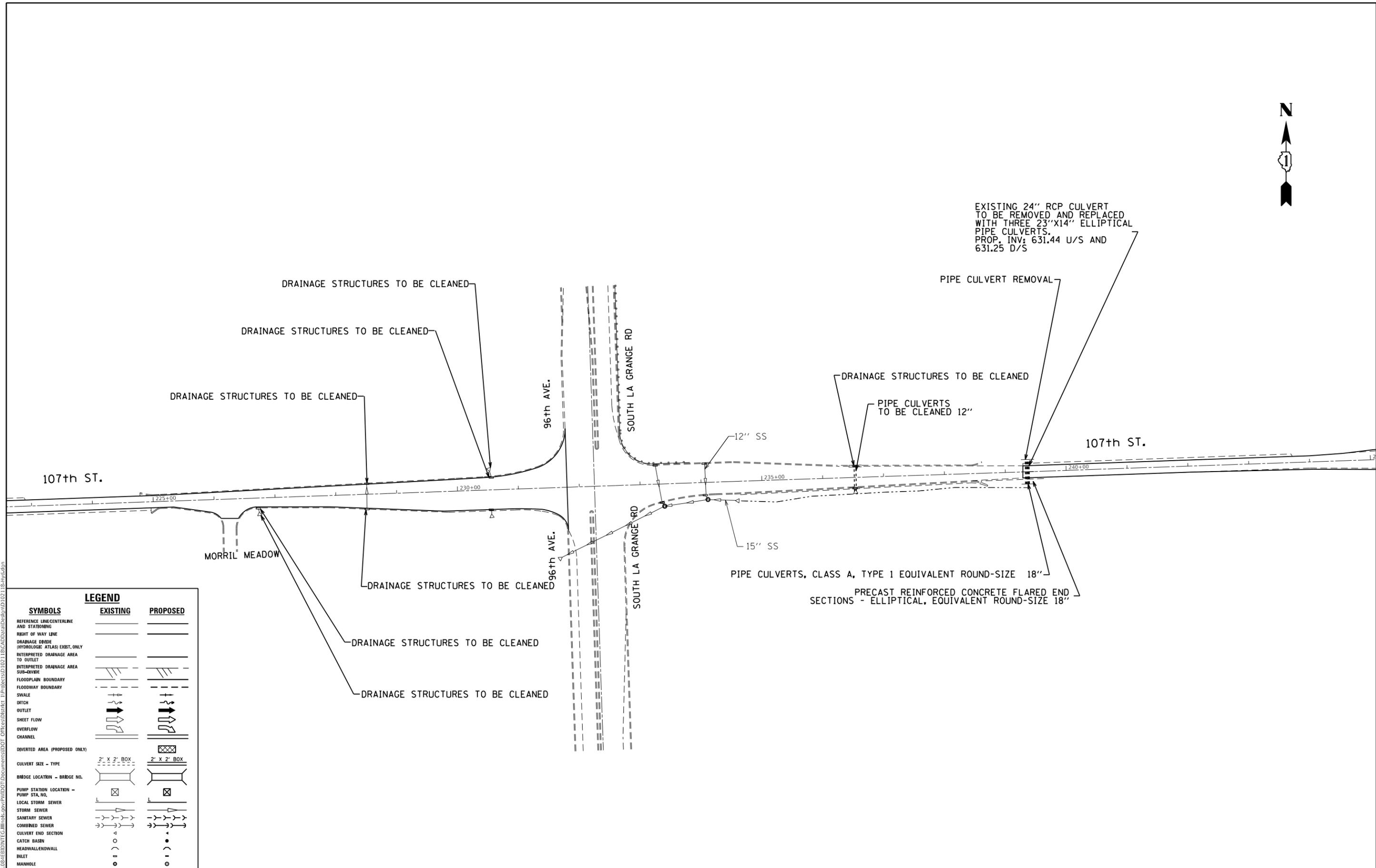
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
DRAINAGE PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1279	SECTION 3095RS & T-3	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 19
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				

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SYMBOLS		EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		---	---
RIGHT OF WAY LINE		---	---
DRAINAGE DIVIDE (HYDROLOGIC ATLAS) EXIST. ONLY		---	---
INTERPRETED DRAINAGE AREA TO OUTLET		---	---
INTERPRETED DRAINAGE AREA SUB-DIVIDE		---	---
FLOODPLAIN BOUNDARY		---	---
FLOODWAY BOUNDARY		---	---
SWALE		---	---
DITCH		---	---
OUTLET		---	---
SHEET FLOW		---	---
OVERFLOW		---	---
CHANNEL		---	---
DIVERTED AREA (PROPOSED ONLY)		---	---
CULVERT SIZE - TYPE		2' x 2' BOX	2' x 2' BOX
BRIDGE LOCATION - BRIDGE NO.		---	---
PUMP STATION LOCATION - PUMP STA. NO.		---	---
LOCAL STORM SEWER		---	---
STORM SEWER		---	---
SANITARY SEWER		---	---
COMBINED SEWER		---	---
CULVERT END SECTION		---	---
CATCH BASIN		---	---
HEADWALL/ENDWALL		---	---
INLET		---	---
MANHOLE		---	---

USER NAME = tariqfm	DESIGNED -	REVISED -
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PLOT DATE = 2/1/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

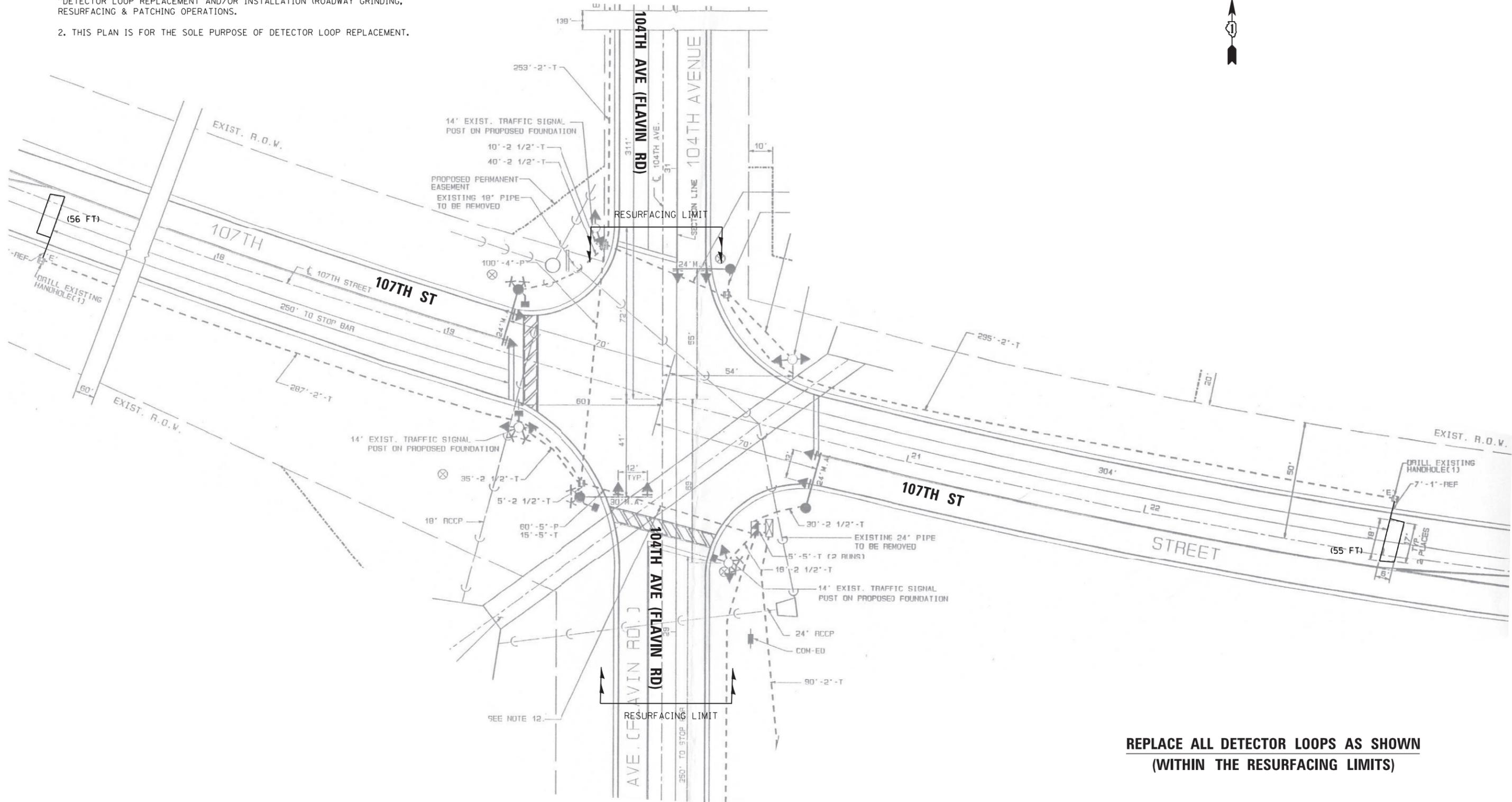
**107TH ST. (IL 171 (ARCHER AVE.) TO KEAN AVE.)
DRAINAGE PLAN**

F.A.U. RTE. 1579	SECTION 3095RS & T-3	COUNTY COOK	TOTAL SHEETS 34	SHEET NO. 20
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				

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 OFFICE: District 1
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NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	111	FOOT

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TS1633 - 107TH ST AT 104TH AVE (FLAVIN RD)_10022017.dgn		DRAWN - BAS	REVISED -
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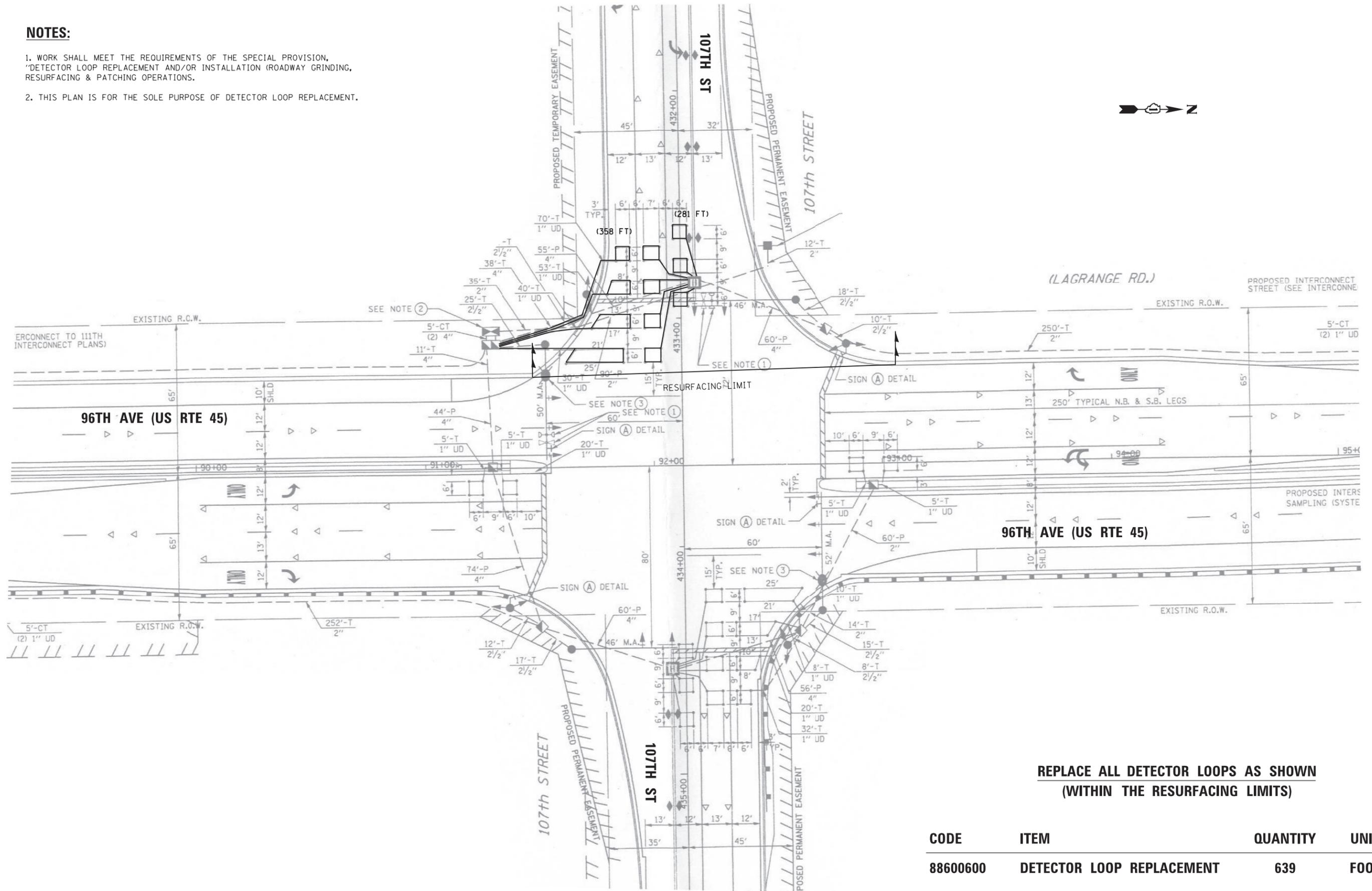
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN			
107TH ST AT 104TH AVE (FLAVIN RD)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095 RS-3	COOK	34	21
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	639	FOOT

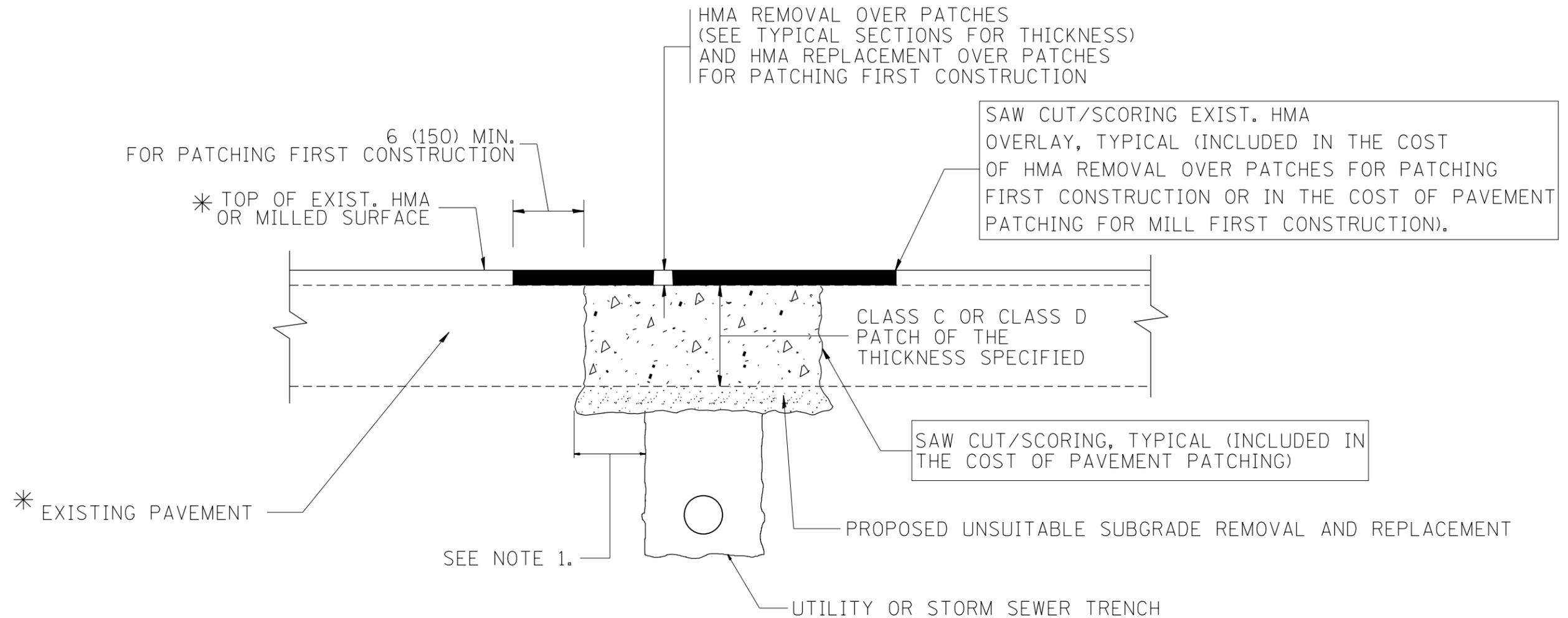
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TS1630 - 107TH ST AT 96TH AVE US RTE	51.10022017.dgn	DRAWN -	BAS	REVISED -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
107TH ST AT 96TH AVE (US RTE 45)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095 RS-3	COOK	34	22
CONTRACT NO. 62F63				
ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME =	USER NAME = tar1qfm	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI021\BRAW\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 01-01-07					1579	3095RS & T-3	COOK	34	23
	PLOT DATE = 2/2/2018	DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 62F63				
			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

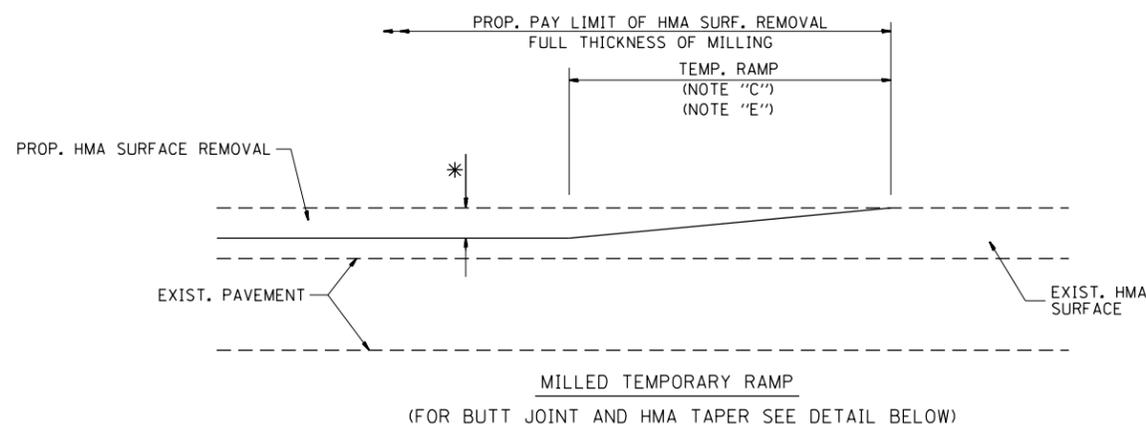
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

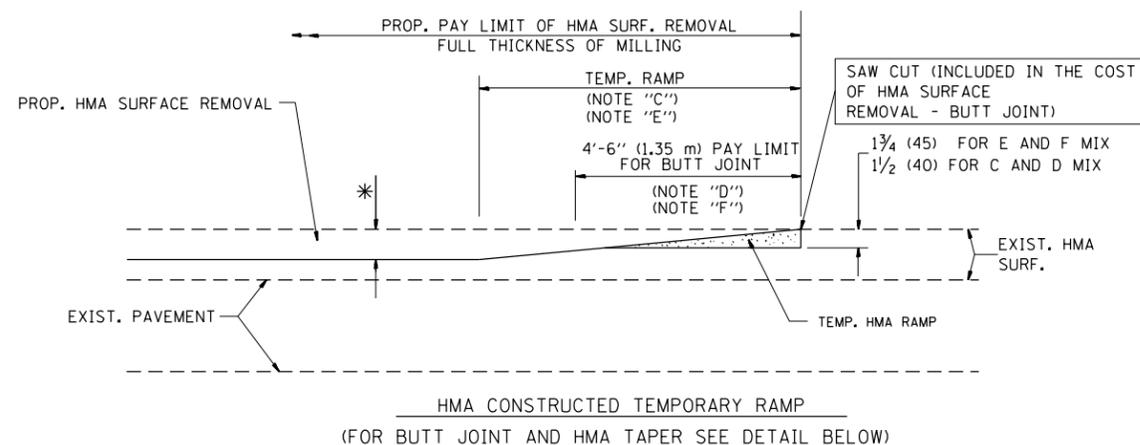
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = tar1qfm	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\10221\BRAW\Notes\Design\DistStd.dgn		REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			1579	3095RS & T-3	COOK	34	24
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 62F63		
PLOT DATE = 2/2/2018	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

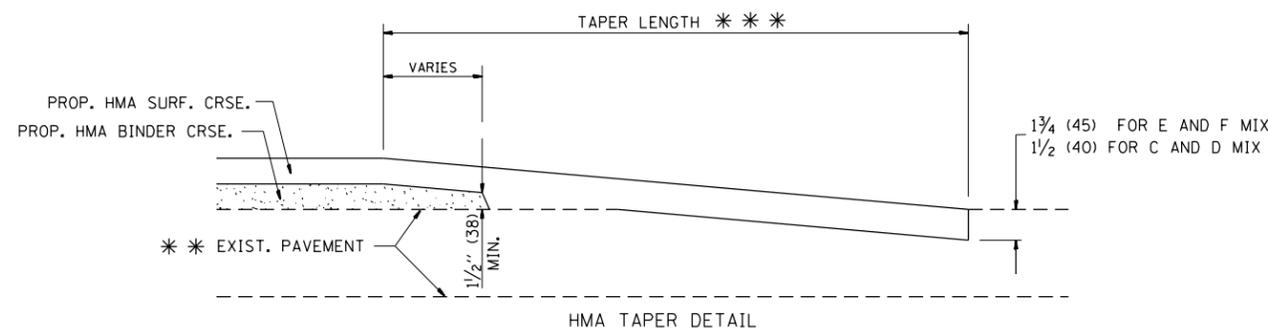
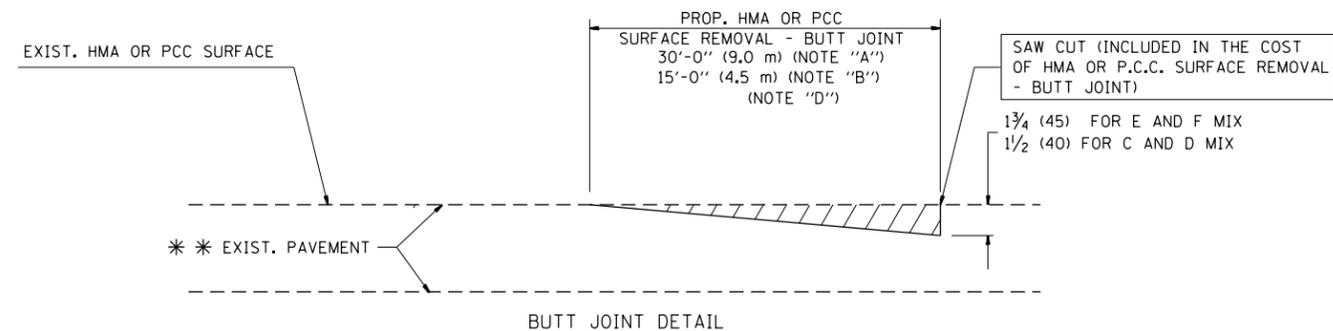


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

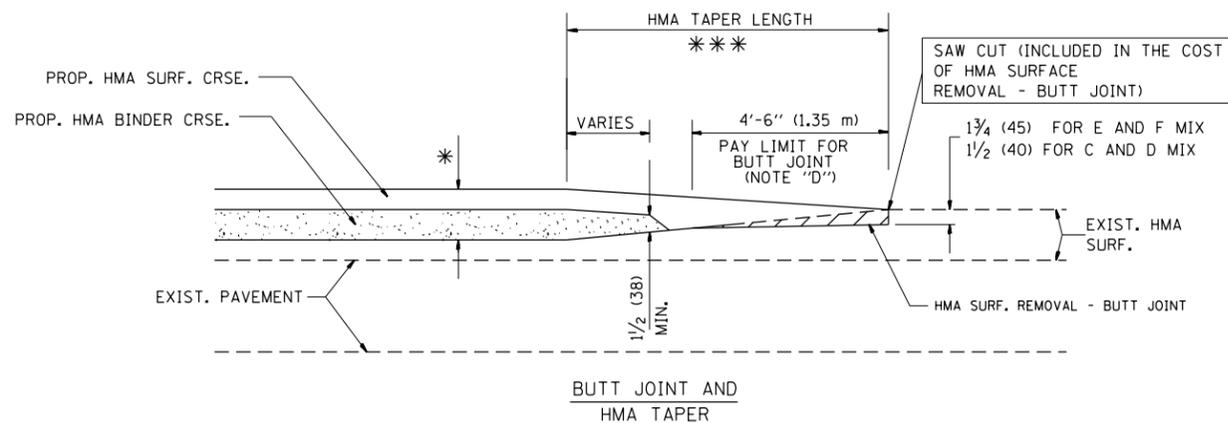
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

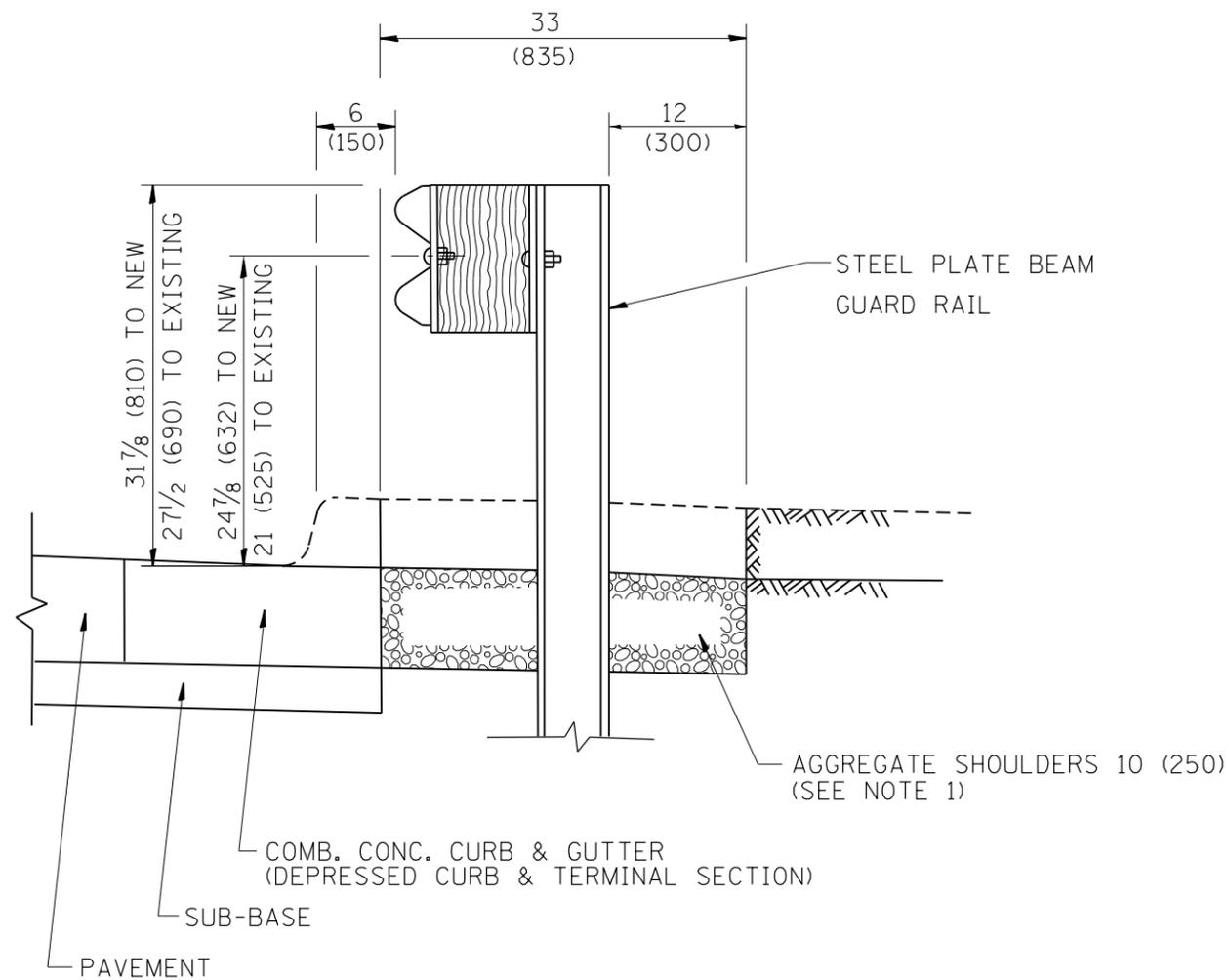
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 2/2/2018	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

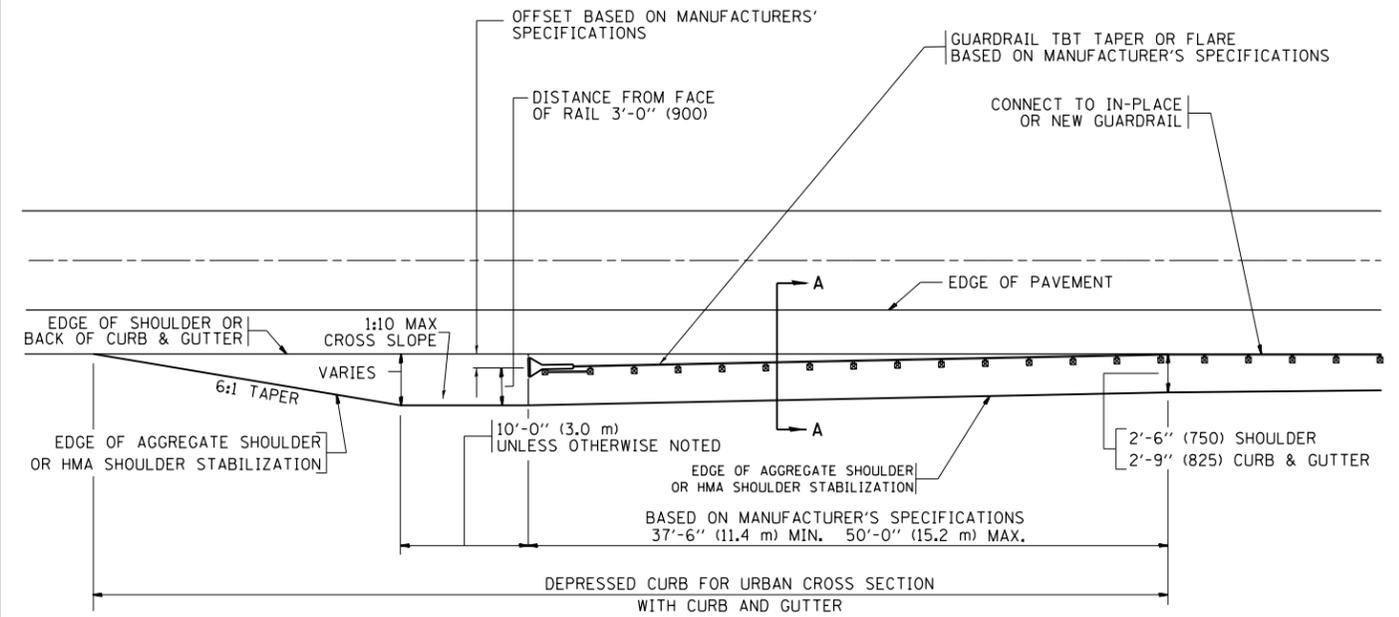
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	25
BD400-05 BD32		CONTRACT NO. 62F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

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

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



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

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

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

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

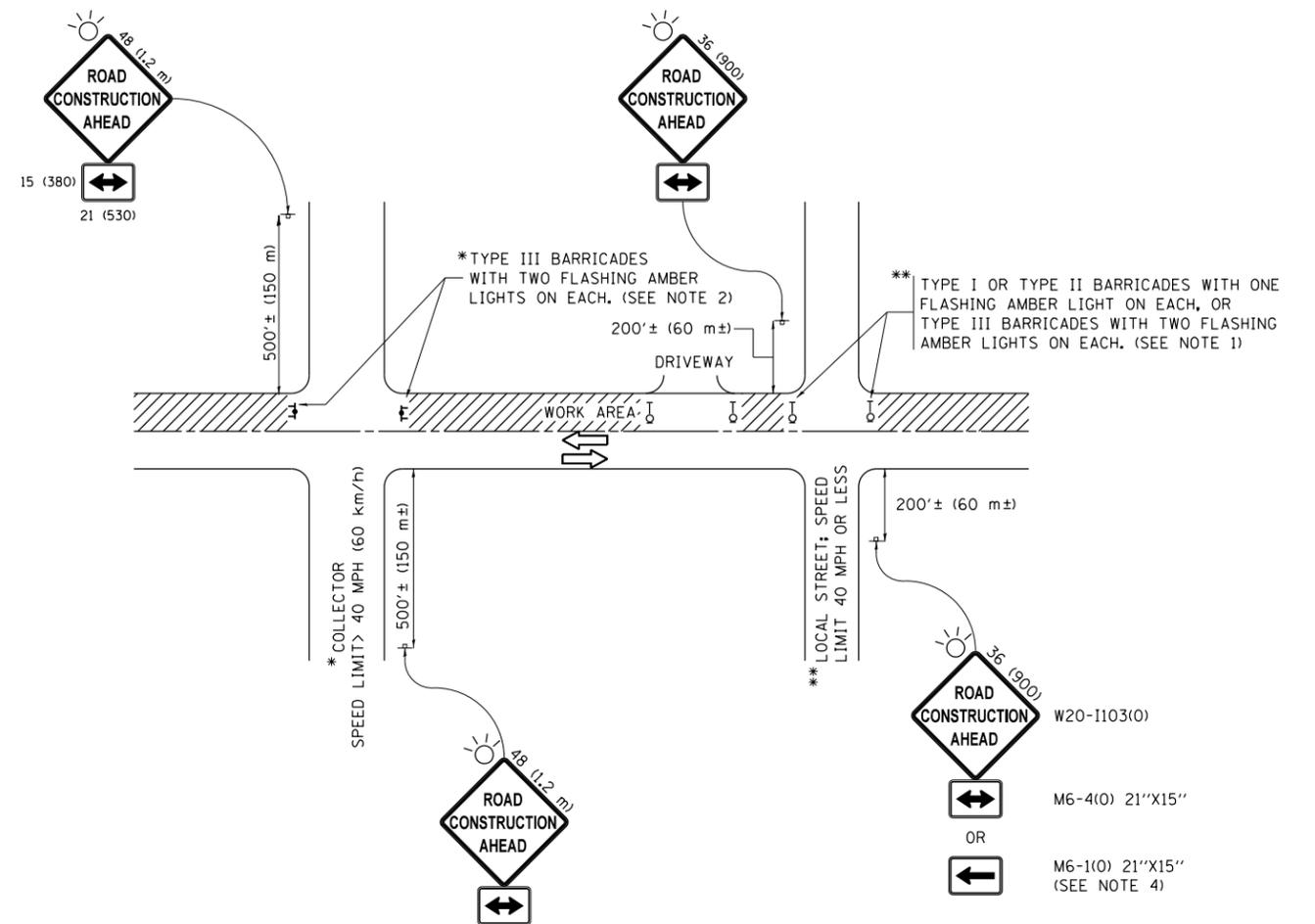
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 2/2/2018	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	26
BD600-10 (BD 34)		CONTRACT NO. 62F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) 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.
3. 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.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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.

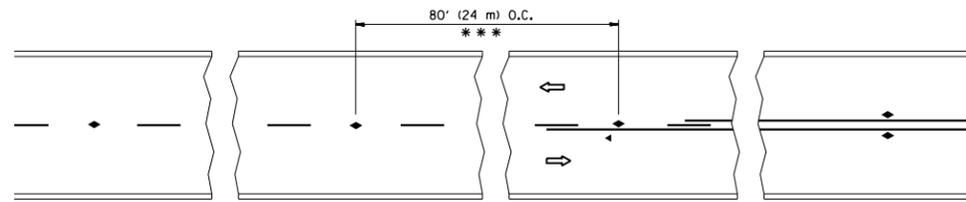
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	PLOT DATE = 2/2/2018	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

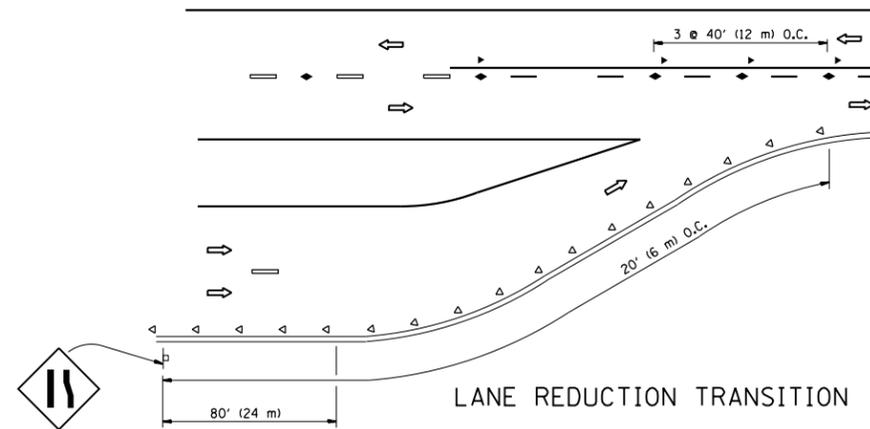
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62F63	
ILLINOIS FED. AID PROJECT				

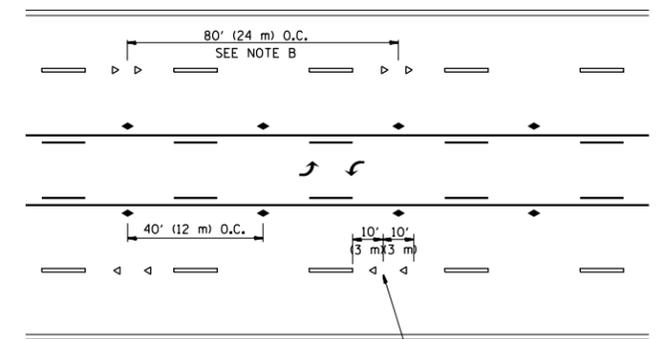


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

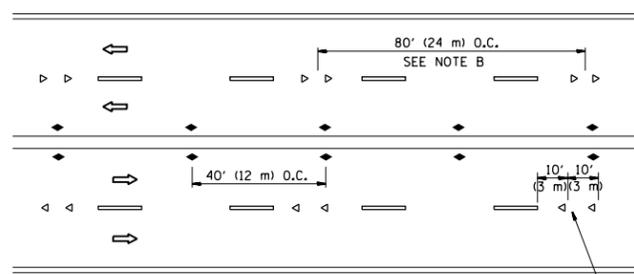
TWO-LANE/TWO-WAY



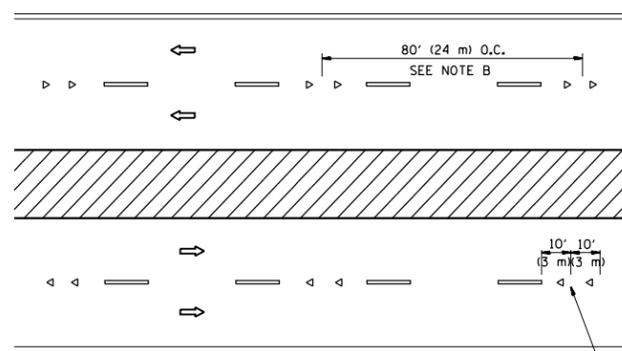
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

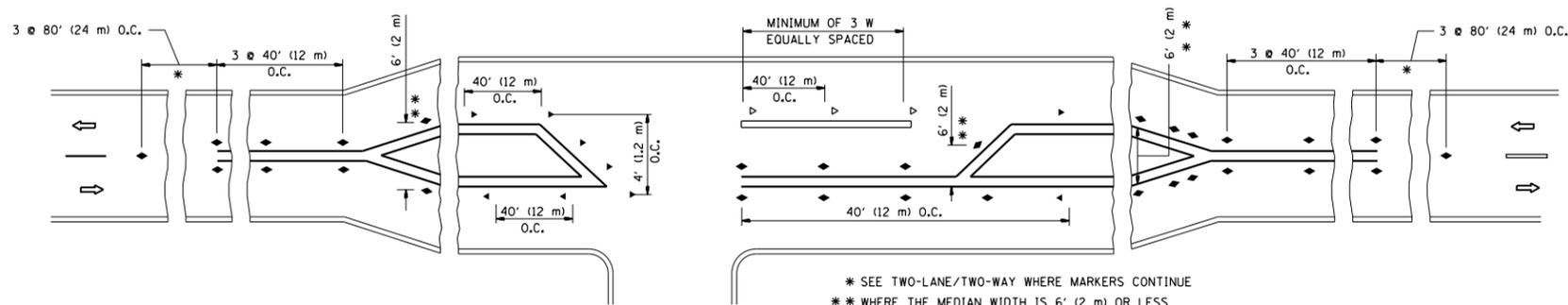
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



LEFT TURN

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

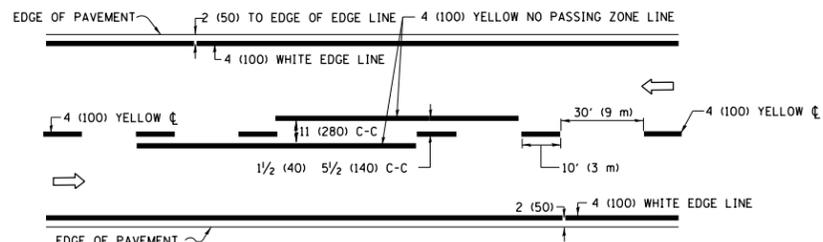
All dimensions are in inches (millimeters) unless otherwise shown.

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		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

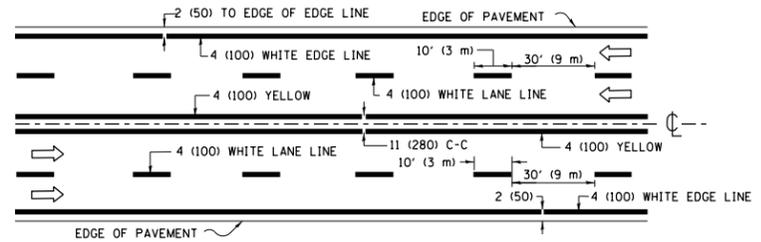
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

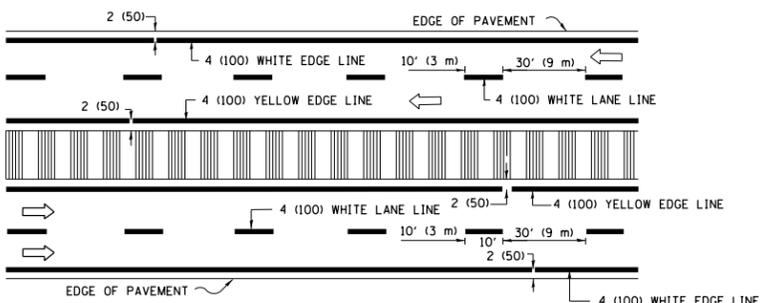
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	28
TC-11			CONTRACT NO. 62F63	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

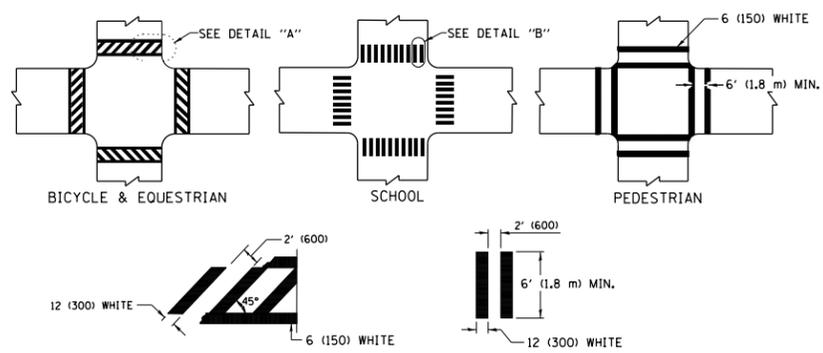


MULTI-LANE UNDIVIDED



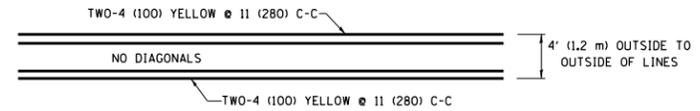
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

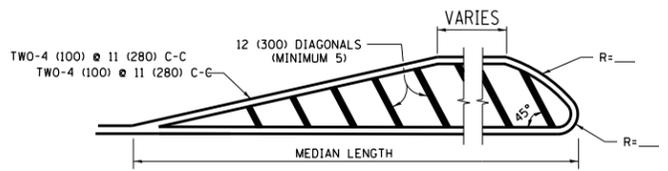


TYPICAL CROSSWALK MARKING

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

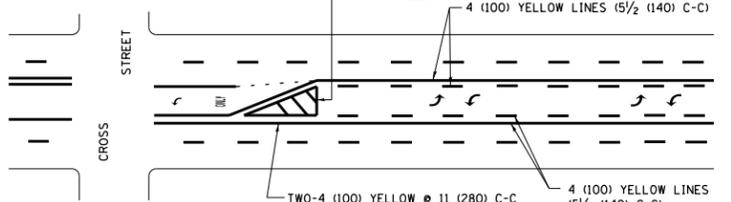


4' (1.2 m) WIDE MEDIANS ONLY



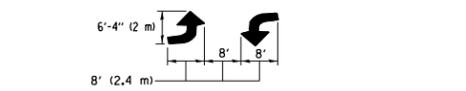
MEDIANS OVER 4' (1.2 m) WIDE

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



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

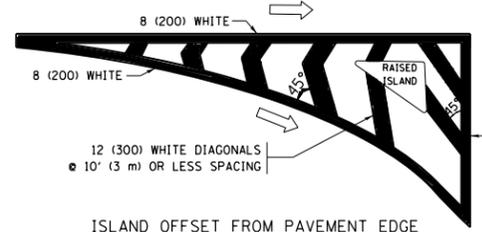
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



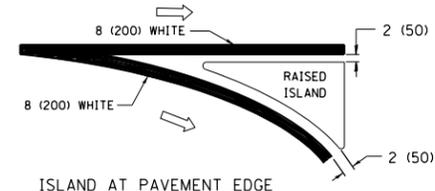
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

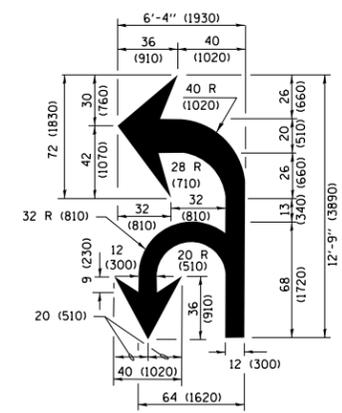
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



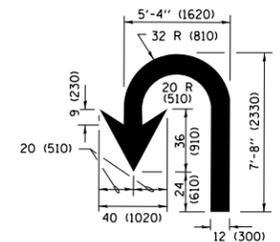
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	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 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

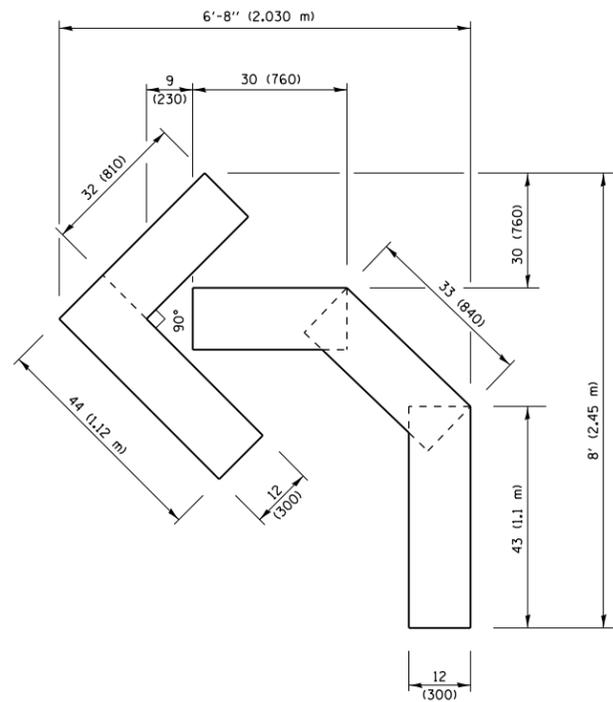
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Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 2/2/2018		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

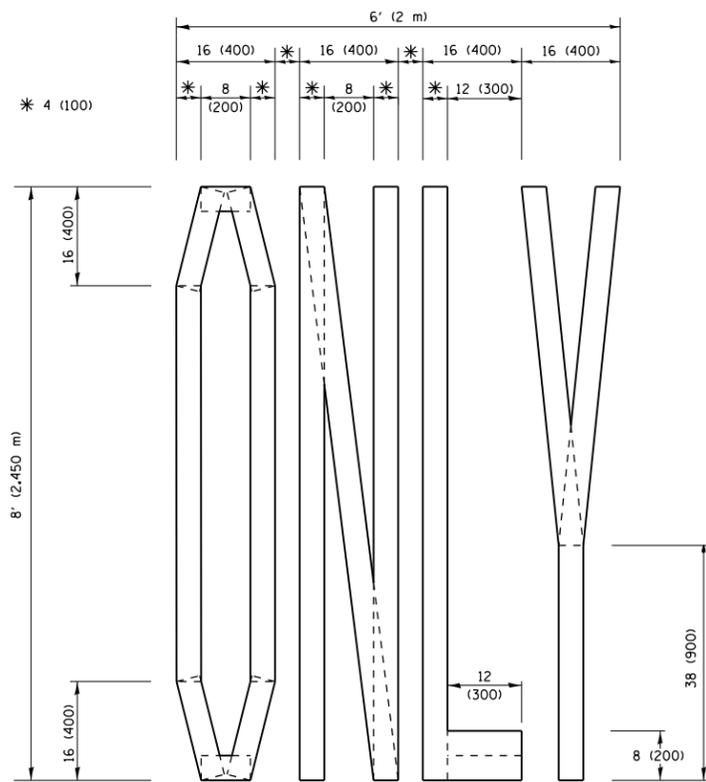
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

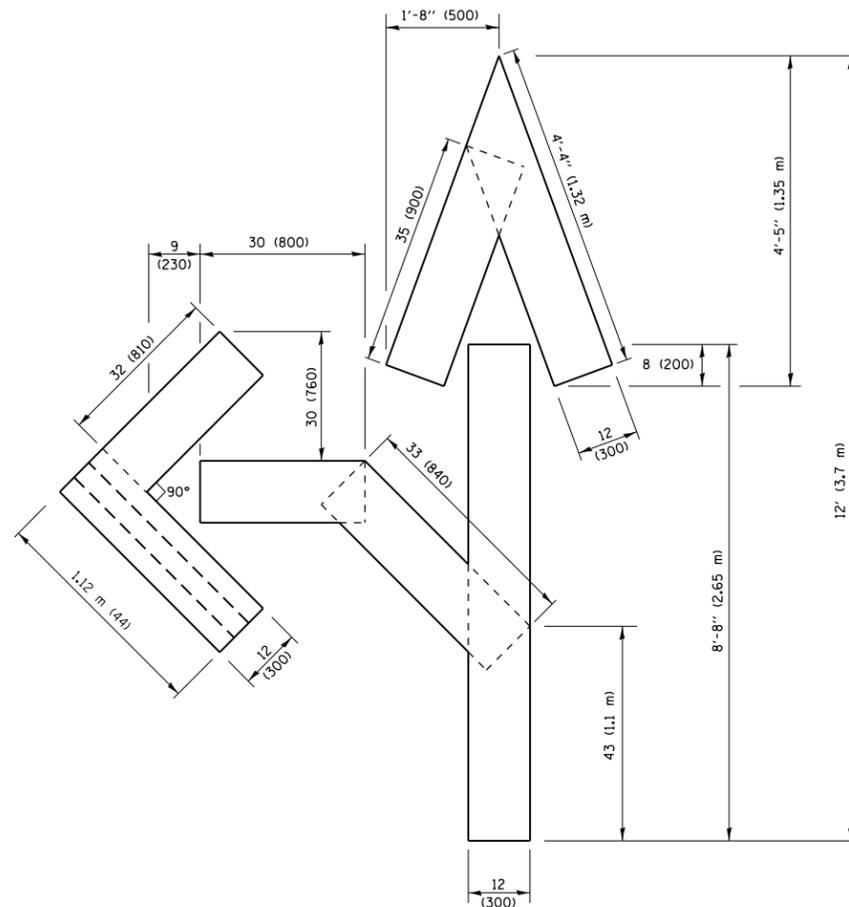
F.A.U R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	29
TC-13		CONTRACT NO. 62F63		
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)



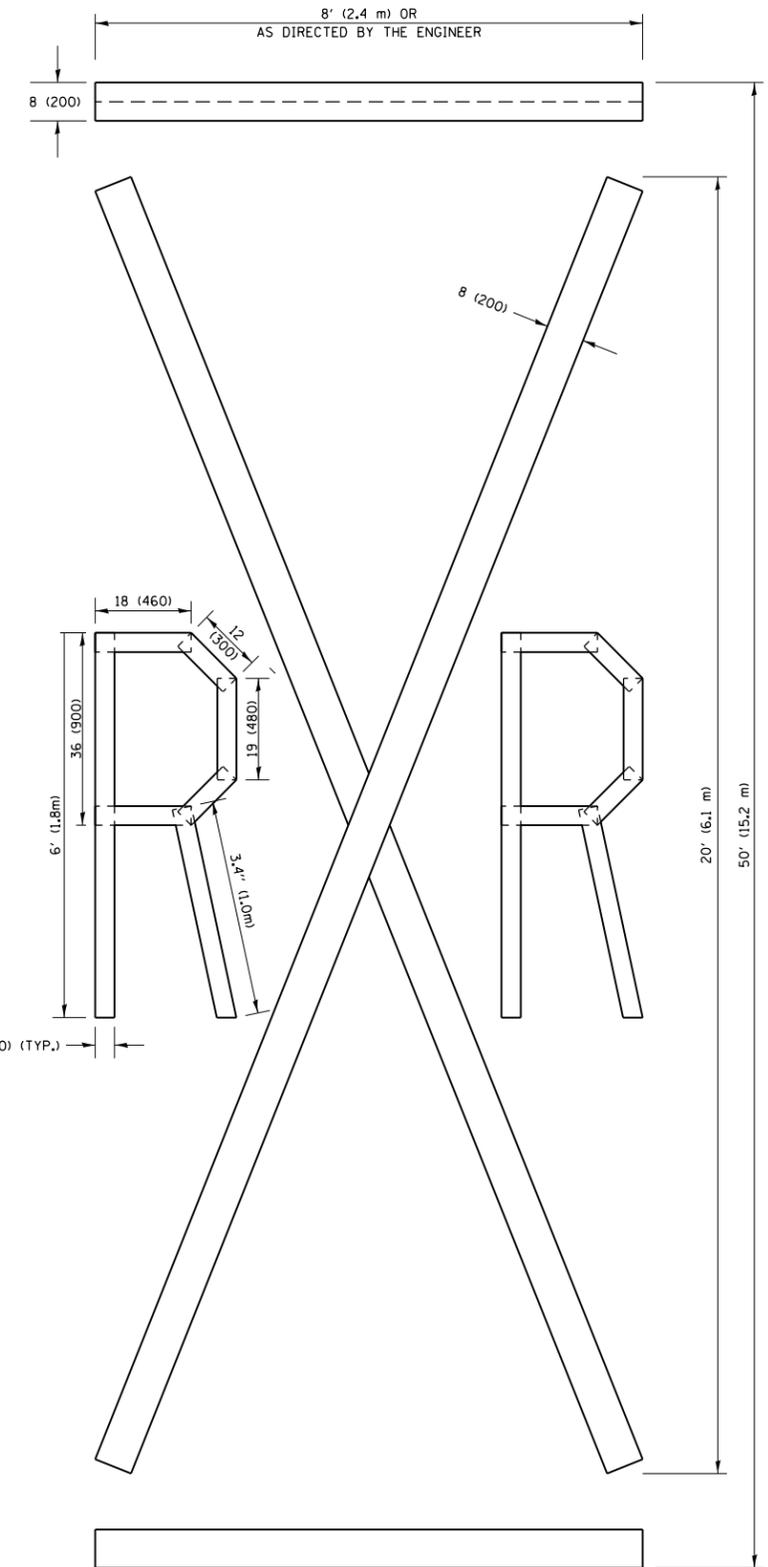
QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

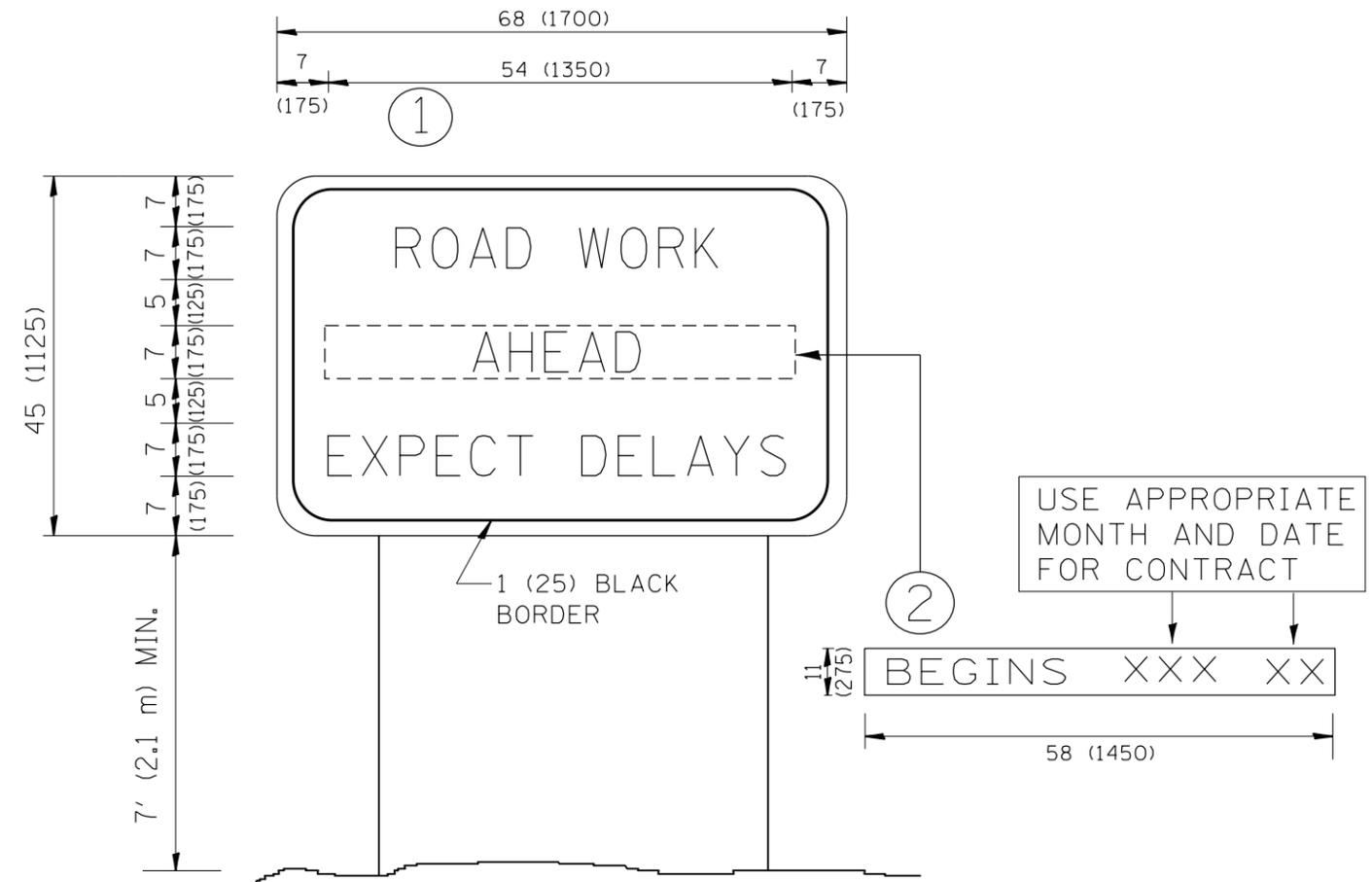
FILE NAME =	USER NAME = tarigfm	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw\11084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\010218\BRAWN\Browns\Design\DistStd.dgn			REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 2/2/2018			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	31
TC-16		CONTRACT NO. 62F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

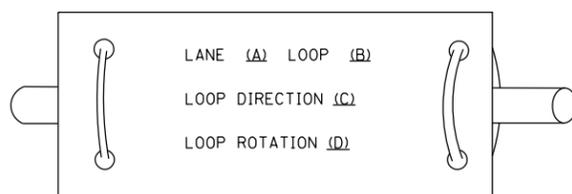
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = tar1qfm	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI021\BRAW\Notes\Design\DistStd.dgn			REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	1579	3095RS & T-3	COOK	34	32
		PLOT SCALE = 100.0000' / 1in.	CHECKED -		REVISED - T. RAMMACHER 02-02-99				TC-22		CONTRACT NO. 62F63		
		PLOT DATE = 2/2/2018	DATE -		REVISED - C. JUCIUS 01-31-07				<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

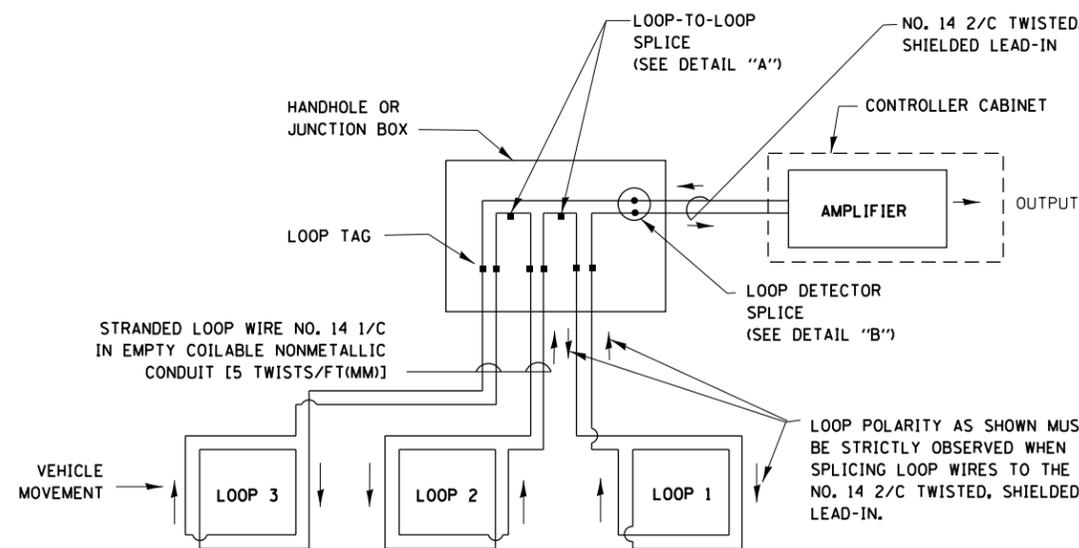
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

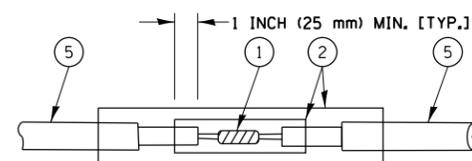


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

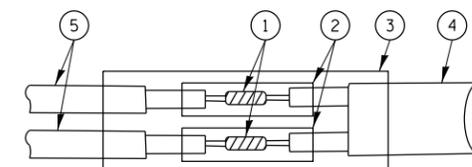


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

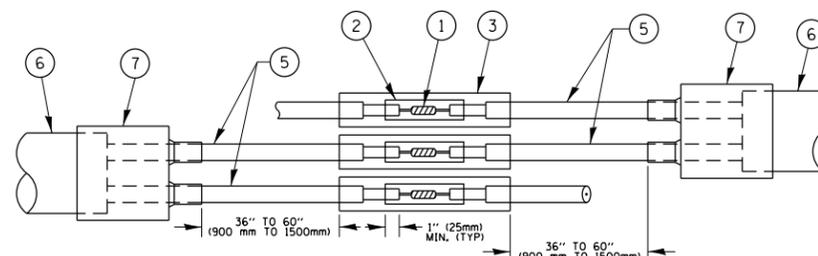


DETAIL "A"
LOOP-TO-LOOP SPLICE

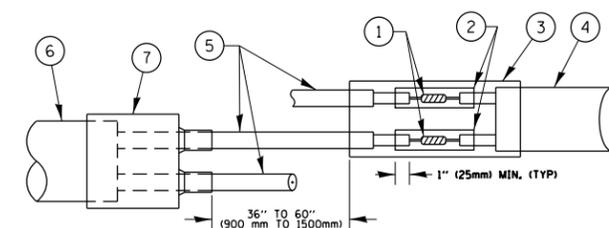


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = toriafm	DESIGNED -	REVISED -
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Default	PLOT DATE = 2/2/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

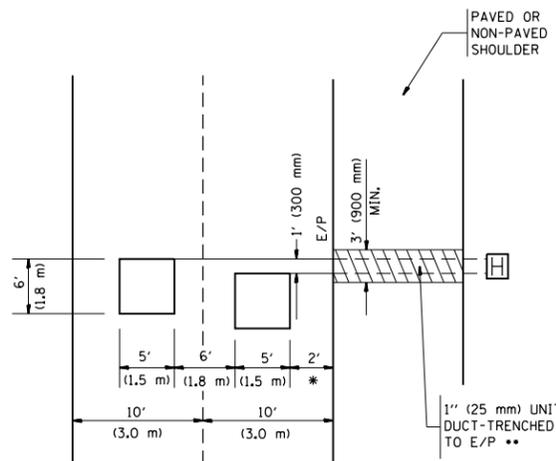
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	33
TS-05		CONTRACT NO. 62F63		
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

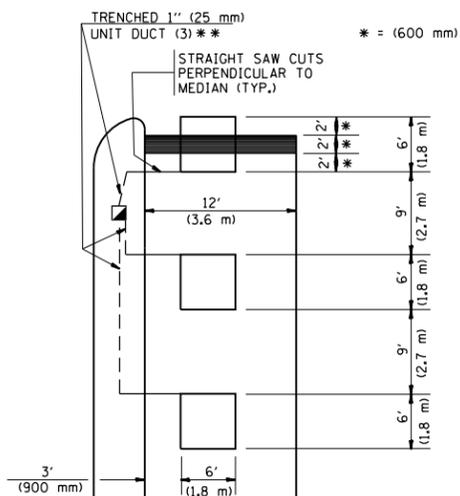


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

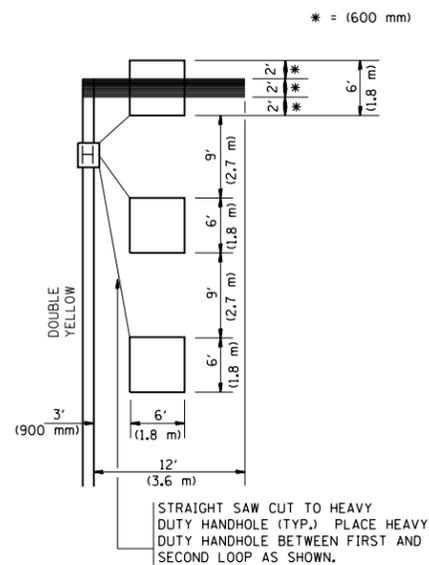
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

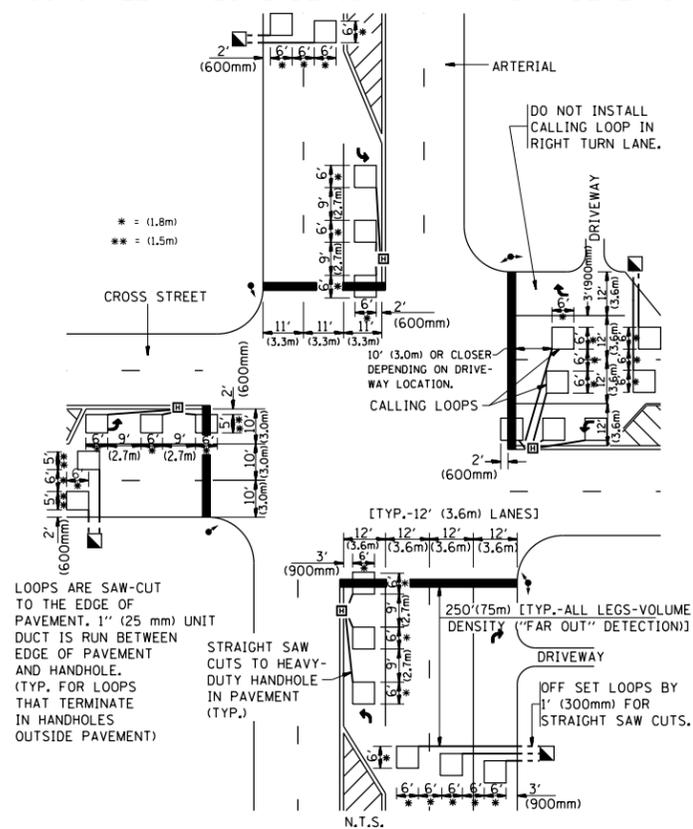
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



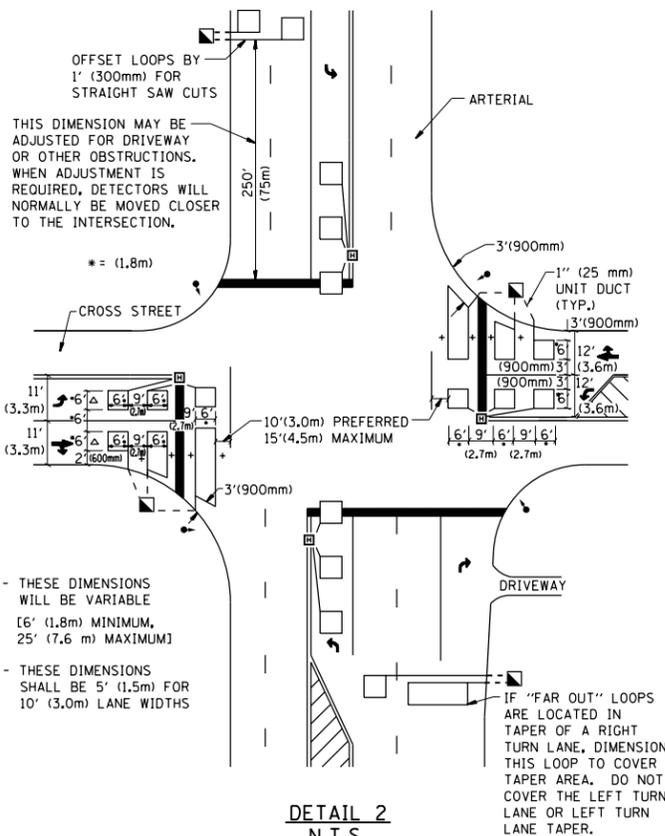
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -
PLOT DATE = 2/2/2018			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1579	3095RS & T-3	COOK	34	34
TS-07		CONTRACT NO. 62F63		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				