

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-RS&SW	COOK	33	1
		ILLINOIS	CONTRACT NO. 62J55	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO

TRAFFIC DATA

2018 ADT = 12,500  
SPEED LIMIT = 30 MPH

PROPOSED  
HIGHWAY PLANS

FAU ROUTE 1576 – 106TH STREET  
TORRENCE AVE. TO US 12/41 (INDIANAPOLIS AVE.)  
SECTION: 2019-068-RS&SW  
PROJECT: NHPP-PABS (284)  
DESIGNED OVERLAY /ADA IMPROVEMENTS  
COOK COUNTY

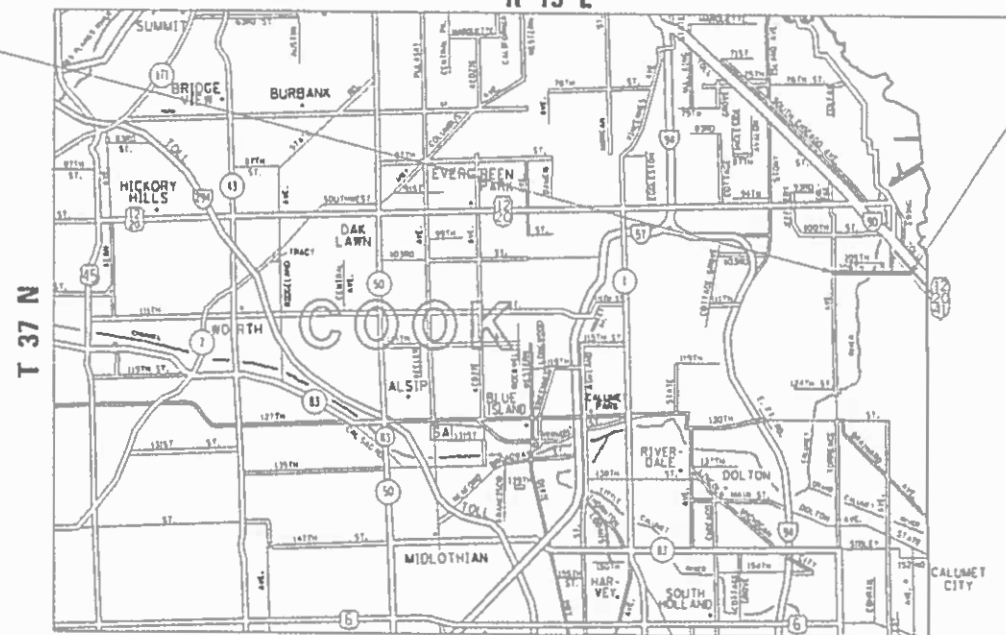
C-91-443-19

R 15 E

PROJECT BEGINS  
STA 11+10

OMISSION  
STA 47+17 TO 50+79

PROJECT ENDS  
STA 107+55



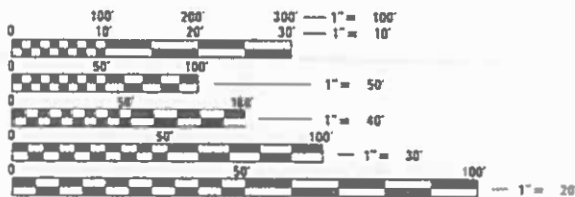
HYDE PARK TOWNSHIP

GROSS LENGTH = 9,645 FT. = 1.826 MILE  
NET LENGTH = 9,203 FT. = 1.758 MILE

D-91-214-19



LOCATION OF SECTION INDICATED THUS: -



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.

"C.U.A.N."  
(CHICAGO UTILITY ALERT NETWORK) AT  
(312)744-7000

PROJECT ENGINEER: ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62J55

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 2019  
Anthony J. Pringle / MS REGIONAL ENGINEER  
Jan 31 20 20  
Scott A. Etk ENGINEER OF DESIGN AND ENVIRONMENT  
Jan 31 20 20  
William J. Dan DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

**STATE STANDARDS**

**GENERAL NOTES**

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CHICAGO.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH. WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

ALL PAVEMENT PATCHING LOCATIONS WILL DETERMINED IN THE FIELD BY THE ENGINEER.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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

THE COST OF SURFACE REMOVAL IN THE GUTTER FLAG SHALL BE INCLUDED IN THE COST OF OF "HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH PAY ITEM.

ALL COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

OPEN LID DRAINAGE STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION OF THIS ROADWAY WITHOUT THE WRITTEN PERMISSION FROM THE CITY OF CHICAGO.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

ALL EXCAVATED AREA REQUIRED FOR CLASS D PATCHING SHALL BE BACKFILLED FLUSH TO THE EXISTING PAVEMENT WITHIN 24 HOURS.

**INDEX OF SHEETS**

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33	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
424001-11	PREPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
606001-07	COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTEN OR MOVING OPERATION, FOR SPEEDS <40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS, & GENERAL NOTES  
106TH STREET FROM TORRENCE AVE. TO US-12/41 (INDIANAPOLIS AVE.)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019 068-R5 & SW	COOK	33	2
			CONTRACT NO. 62J55	
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.

REV. - MS

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SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005			
20200100	EARTH EXCAVATION	CU YD	1020	1020				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	100	100				
25200200	SUPPLEMENTAL WATERING	UNIT	1	1				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1995	1995				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	37380	37380				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	85	85				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	625	625				
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	4627	4627				
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	6085	6085				
42001300	PROTECTIVE COAT	SO YD	150	150				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	50	50				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4030	4030				
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SO FT	470	470				
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SO YD	41307	41307				
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	50	50				
44000600	SIDEWALK REMOVAL	SO FT	4590	4590				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005			
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SO YD	2600	2600				
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SO YD	600	600				
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SO YD	700	700				
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SO YD	700	700				
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SO YD	600	600				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	6000	6000				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	20	20				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2				
60255500	MANHOLES TO BE ADJUSTED	EACH	7	7				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5	5				
60260100	INLETS TO BE ADJUSTED	EACH	10	10				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	25	25				
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	4	4				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1020	1020				

FILE NAME =	USER NAME = hassam	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>106TH STREET FROM TORRENCE AVE. TO US-12/41 (INDIANAPOLIS AVE.) SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 12/10/2019	DATE -	REVISED -			CONTRACT NO. 62J55					
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

\* SPECIALTY ITEMS    △ NON-PARTICIPATING

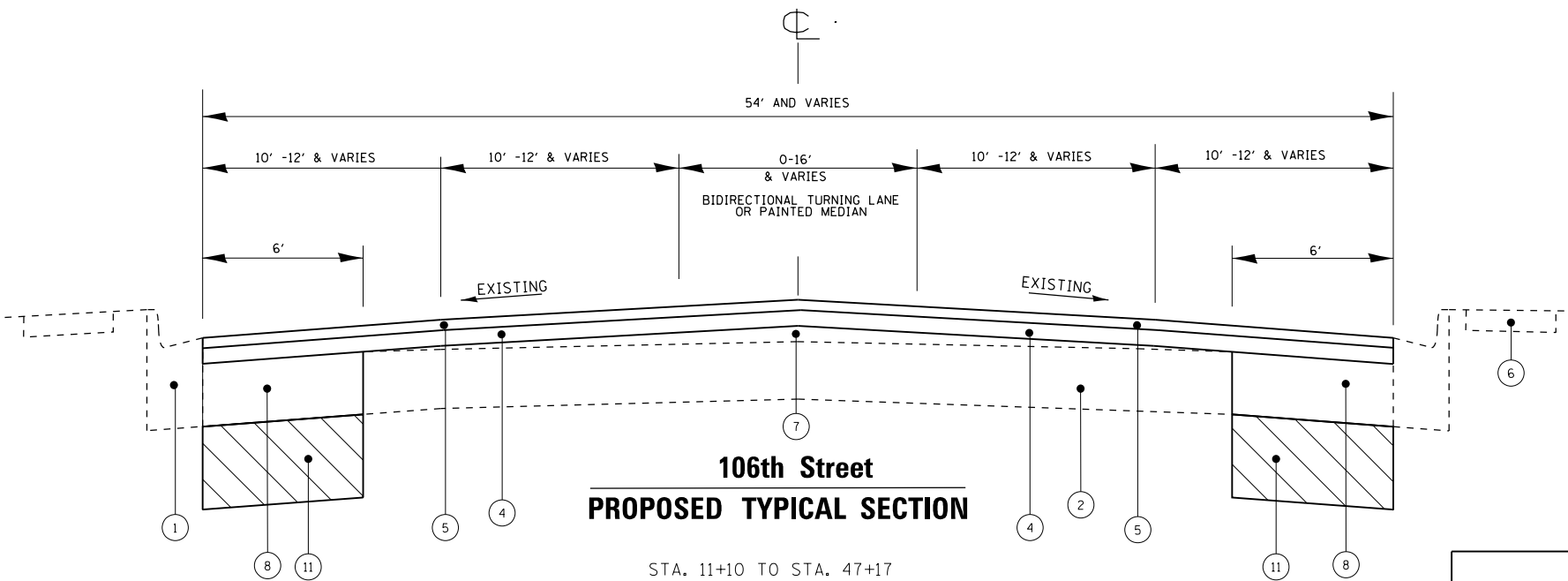
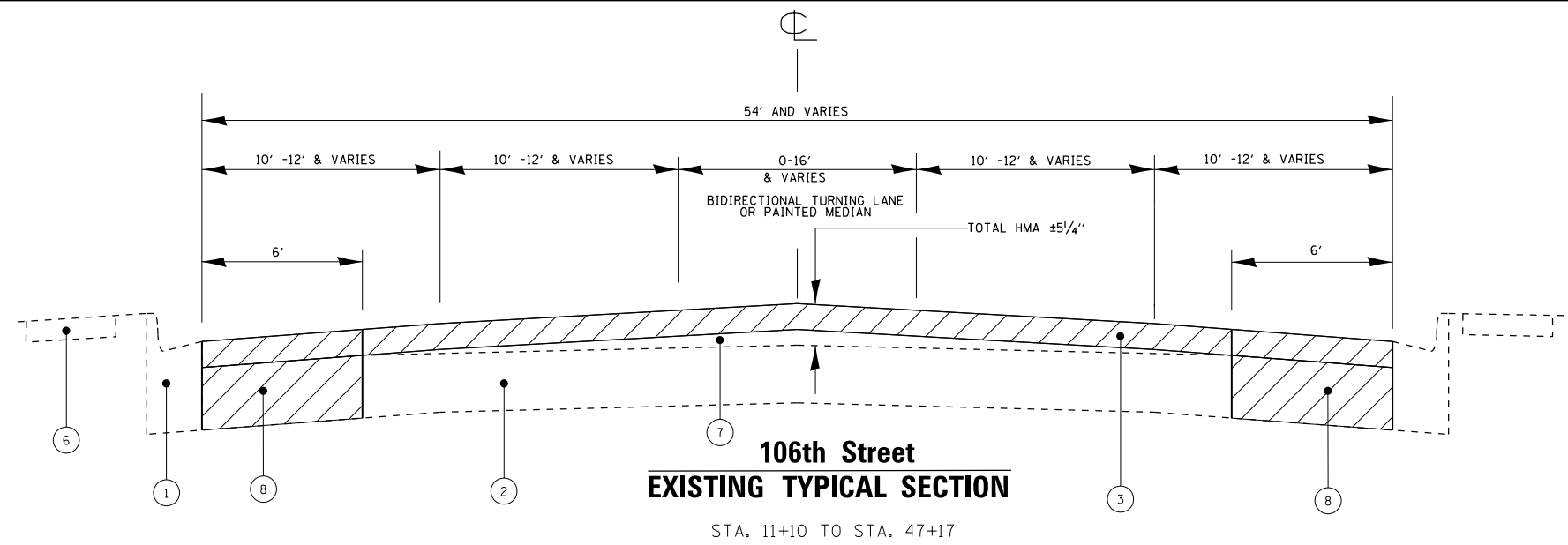
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005					CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10															
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	345	345					
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	11	11						70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	5510	5510					
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1						70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	16155	16155					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9						* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	995.9	995.9					
67100100	MOBILIZATION	L SUM	1	1						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18950	18950					
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1						* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3385	3385					
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1						* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	345	345					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1						* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	5510	5510					
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	510	510					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	300	300					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1						85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	64750	64750						* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	250	250					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	21583	21583						* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2	2					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	995.9	995.9						X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18950	18950						X4240800	DETECTABLE WARNINGS (SPECIAL)	SO FT	400	400					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3385	3385															

REV. - MS

FILE NAME =	USER NAME = hssomn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>106TH STREET FROM TORRENCE AVE. TO US-12/41 (INDIANAPOLIS AVE.) SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100,0000' / 1in.	CHECKED -	REVISED -	CONTRACT NO. 62J55							
PLOT DATE = 12/10/2019	DATE -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT

\* SPECIALTY ITEMS    △ NON-PARTICIPATING





**LEGEND**

- ① EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ② EXISTING PCC PAVEMENT ±9"
- ③ PROPOSED HMA SURFACE REMOVAL, 3¾"
- ④ PROPOSED HMA BINDER COURSE IL-9.5, N70, 2"
- ⑤ PROPOSED HMA SURFACE COURSE MIX "D", IL-9.5, N70, 1¾"
- ⑥ EXISTING SIDEWALK
- ⑦ EXISTING HMA PAVEMENT, ± 1½"
- ⑧ PROPOSED CLASS D PATCHES, TYPE IV, 12" (\*SEE NOTE)
- ⑨ PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- ⑩ PROPOSED HMA SURFACE COURSE MIX "D", VARIABLE DEPTH
- ⑪ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT (AS DIRECTED BY THE ENGINEER)

MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE USES	VOIDS © Ndes	
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% AT 70 GYR.	<b>QCP</b>
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4% AT 70 GYR.	<b>QCP</b>
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER, IL-19.0 mm)	4% AT 70 GYR.	<b>QC/QA</b>
QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP)		

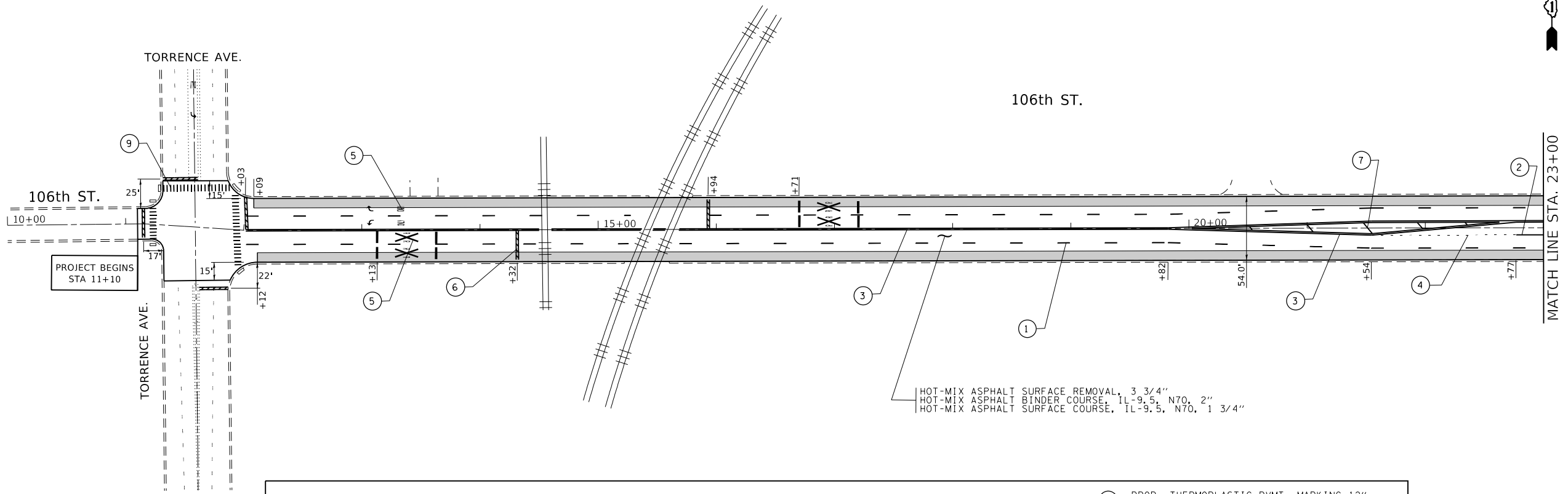
**NOTES:**

- 1 - CONTRACTOR SHALL PATCH FIRST BEFORE MILLING FROM STA 11+10 TO STA 47+17 NORTH AND SOUTH SIDE OF 106TH STREET 6' WIDTH AS SHOWN ON PLANS.
- 2 - FOR REST OF PAVEMENT, CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
- 3 - THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER HMA BINDER IL-9.5

**NOTE:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/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 DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

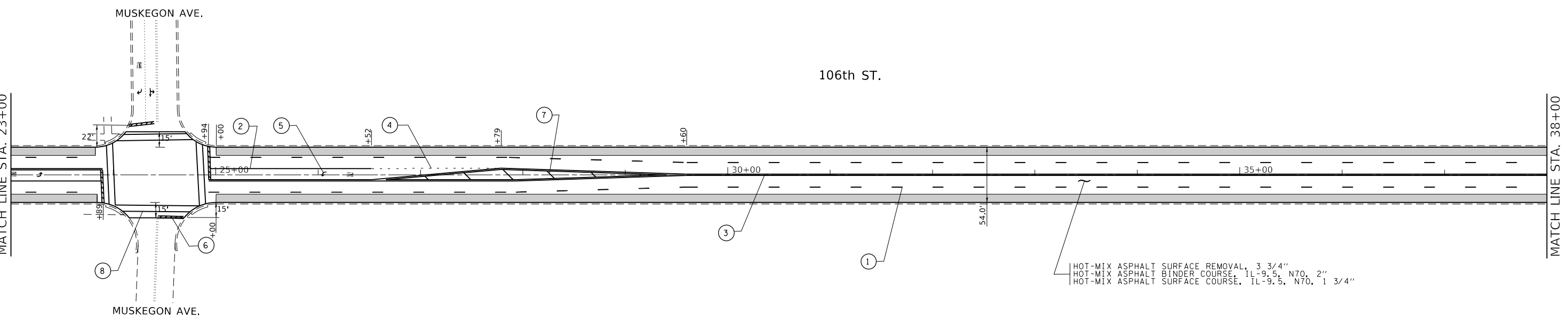




CLASS D PATCHES, TYPE IV, 11 INCH  
6' WIDTH

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>① PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30" SKIP, WHITE (TYP.)</li> <li>② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)</li> <li>③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)</li> </ul> | <ul style="list-style-type: none"> <li>④ PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6" SKIP, WHITE (TYP.)</li> <li>⑤ PROP. THERMOPLASTIC PVMT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)</li> <li>⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)</li> </ul> | <ul style="list-style-type: none"> <li>⑦ PROP. THERMOPLASTIC PVMT MARKING 12" MEDIAN @ 45' 50' C-C, YELLOW (TYP.)</li> <li>⑧ PROP. THERMOPLASTIC PVMT MARKING 6", CROSSWALK 2 @ 6' C-C, WHITE (TYP.)</li> <li>⑨ PROP. THERMOPLASTIC PVMT MARKING LINE 24", CROSSWALK 6' C-C 2', WHITE (TYP.)</li> <li>⑩ PROP. THERMOPLASTIC PVMT MARKING LINE 12", CROSSWALK 45' C-C 2', WHITE (TYP.)</li> </ul> |
|---|--|--|

HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"  
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"  
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N70, 1 3/4"



CLASS D PATCHES, TYPE IV, 11 INCH  
6' WIDTH

- SIDEWALK LEGEND**
- Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAIL PLAN

HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"  
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"  
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N70, 1 3/4"

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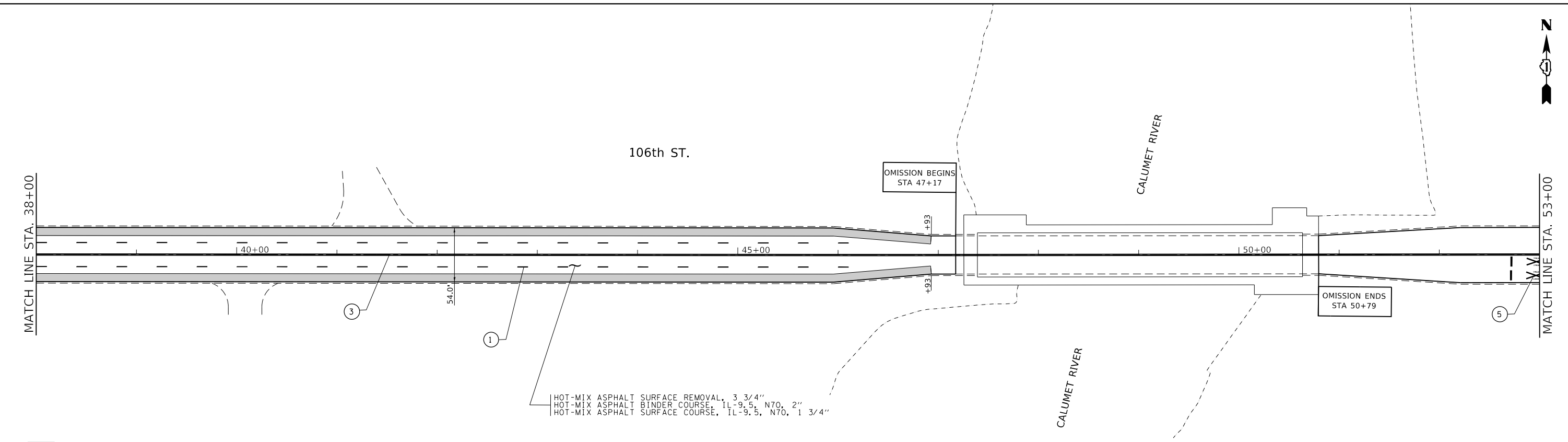
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY PLAN</b>			
<b>106th STREET (TORRENCE AVE. - U.S. RTE. 12/41)</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

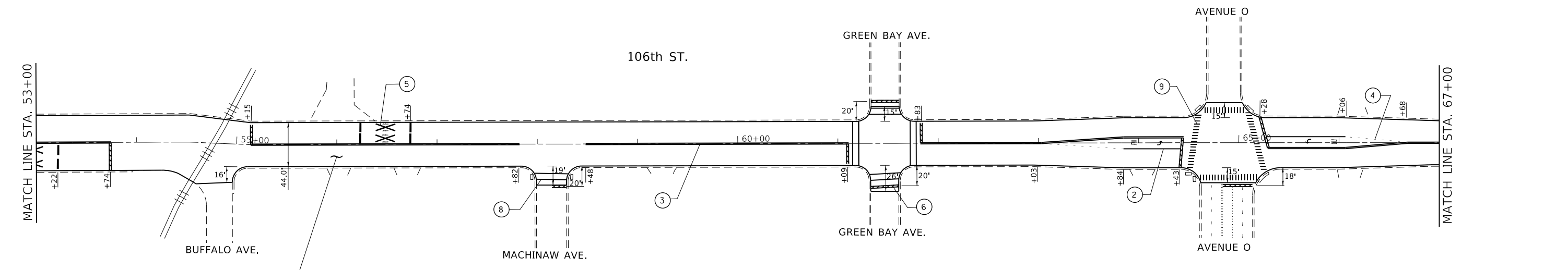
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	8
CONTRACT NO.			62J55	
ILLINOIS		FED. AID PROJECT		





CLASS D PATCHES, TYPE IV, 11 INCH  
6' WIDTH

- |   |   |  |
|---|---|--|
| ① PROP. THERMOPLASTIC PVMT MARKING 4",<br>10' DASH 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT MARKING 6",<br>2' DASH 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT MARKING 12"<br>MEDIAN @ 45' 50' C-C, YELLOW (TYP.)      |
| ② PROP. THERMOPLASTIC PVMT MARKING 6",<br>TURN LANE, WHITE (TYP.)         | ⑤ PROP. THERMOPLASTIC PVMT MARKING<br>LETTERS AND SYMBOLS, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT MARKING 6",<br>CROSSWALK 2 @ 6' C-C, WHITE (TYP.)       |
| ③ PROP. THERMOPLASTIC PVMT MARKING 4",<br>DOUBLE YELLOW @ 11" C-C (TYP.)  | ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24"<br>STOPBAR, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING LINE 24",<br>CROSSWALK 6' C-C 2', WHITE (TYP.)  |
|   |   | ⑩ PROP. THERMOPLASTIC PVMT MARKING LINE 12",<br>CROSSWALK 45' C-C 2', WHITE (TYP.) |



HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"  
HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70, 2"  
HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, N70, 1 3/4"

SIDEWALK LEGEND  
Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAIL PLAN

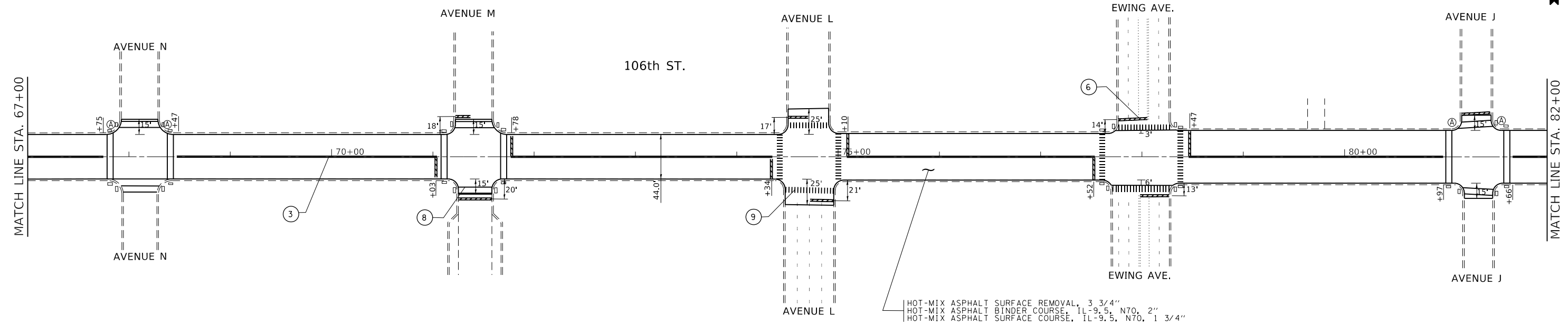
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	DATE -	REVISED -

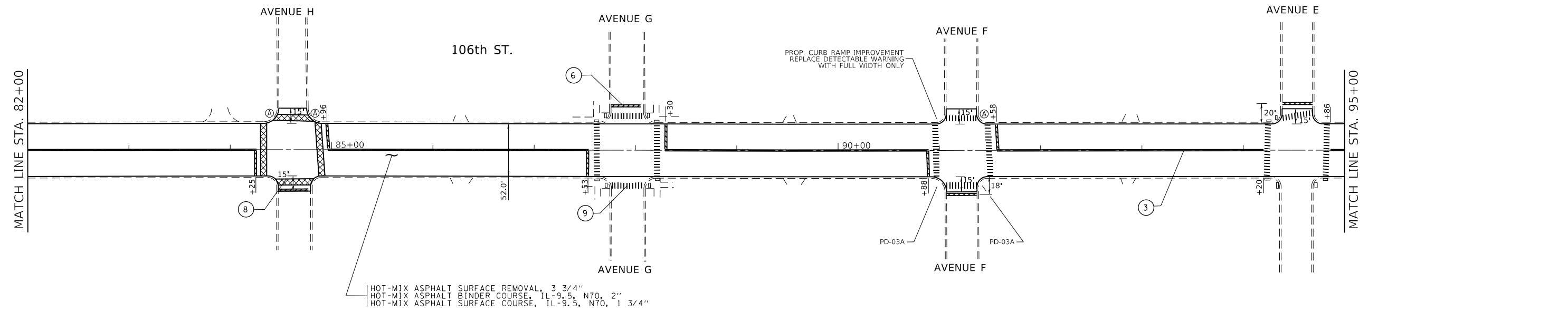
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**106th STREET (TORRENCE AVE. - U.S. RTE. 12/41)**  
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	9
				CONTRACT NO. 62J55
		ILLINOIS FED. AID PROJECT		



- |  |  |   |
|--|--|---|
| ① PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.) | ④ PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT MARKING 12" MEDIAN @ 45' 50' C-C, YELLOW (TYP.)      |
| ② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)         | ⑤ PROP. THERMOPLASTIC PVMT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT MARKING 6", CROSSWALK 2 @ 6' C-C, WHITE (TYP.)       |
| ③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)  | ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING LINE 24", CROSSWALK 6' C-C 2', WHITE (TYP.)  |
|  |  | ⑩ PROP. THERMOPLASTIC PVMT MARKING LINE 12", CROSSWALK 45' C-C 2', WHITE (TYP.) |



IMPRINTED THERMOPLASTIC CROSSWALK

SIDEWALK LEGEND  
 (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAIL PLAN

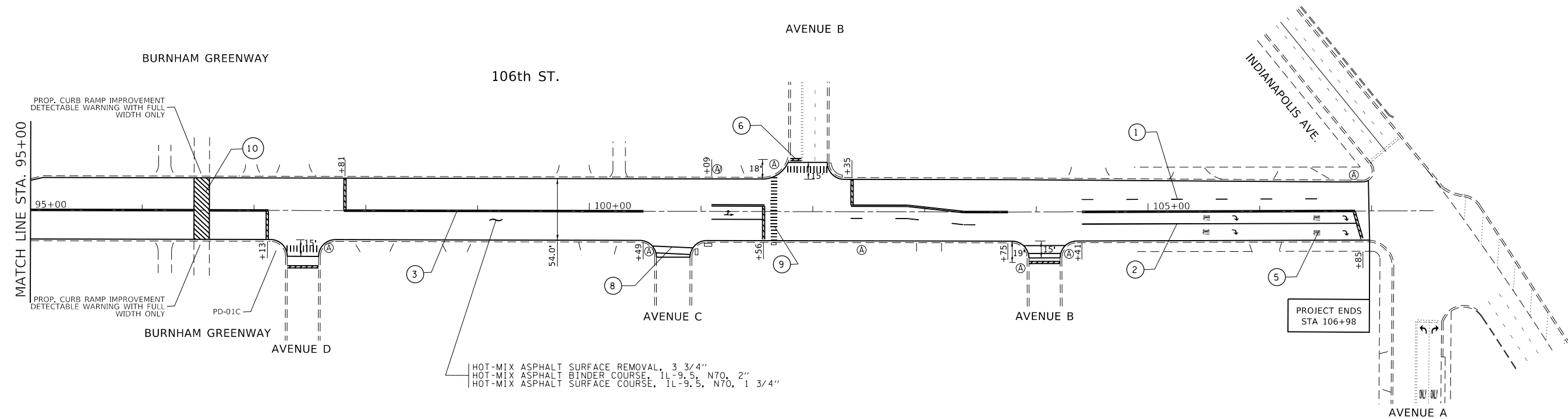
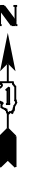
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**106th STREET (TORRENCE AVE. - U.S. RTE. 12/41)**  
 SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	10
CONTRACT NO. 62J55				
ILLINOIS FED. AID PROJECT				



HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"  
 HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70, 2"  
 HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, N70, 1 3/4"

- ① PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)
- ④ PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PVMT MARKING 12" MEDIAN @ 45' 50' C-C, YELLOW (TYP.)
- ② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)
- ⑤ PROP. THERMOPLASTIC PVMT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PVMT MARKING 6", CROSSWALK 2 @ 6' C-C, WHITE (TYP.)
- ③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)
- ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)
- ⑨ PROP. THERMOPLASTIC PVMT MARKING LINE 24", CROSSWALK 6' C-C 2', WHITE (TYP.)
- ⑩ PROP. THERMOPLASTIC PVMT MARKING LINE 12", CROSSWALK 45' C-C 2', WHITE (TYP.)

**SIDEWALK LEGEND**  
 (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAIL PLAN

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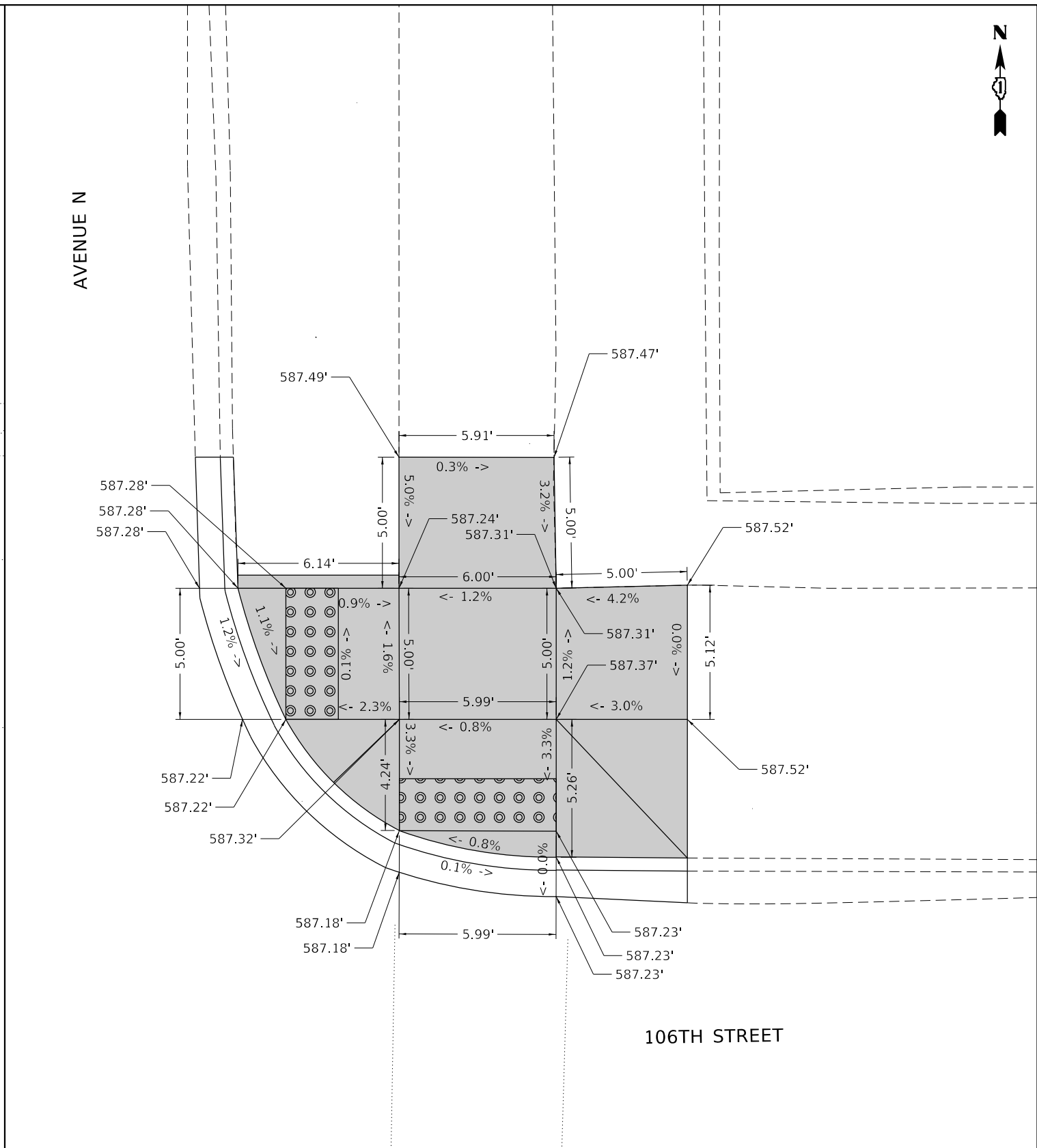
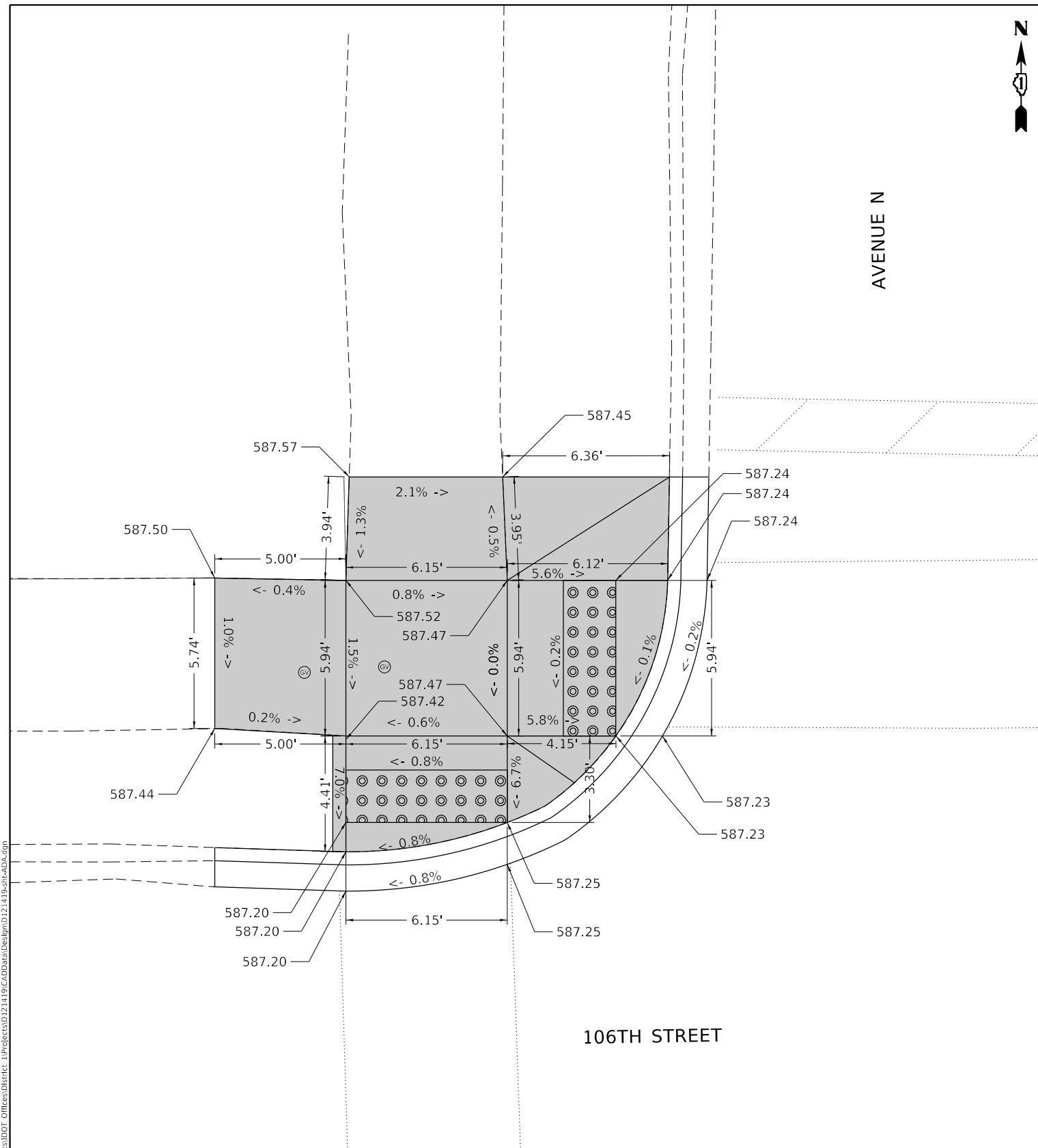
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PLOT DATE = 12/10/2019	DATE -	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
106th STREET (TORRENCE AVE. - U.S. RTE. 12/41)	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	11
CONTRACT NO.			62J55	
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV 626.077  
 BENCHMARK : TOP OF FIRE HYDRANT  
 LOCATION : NORTH WEST CORNER OF LONG ROAD AND GLENVIEW ROAD

### LEGEND

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

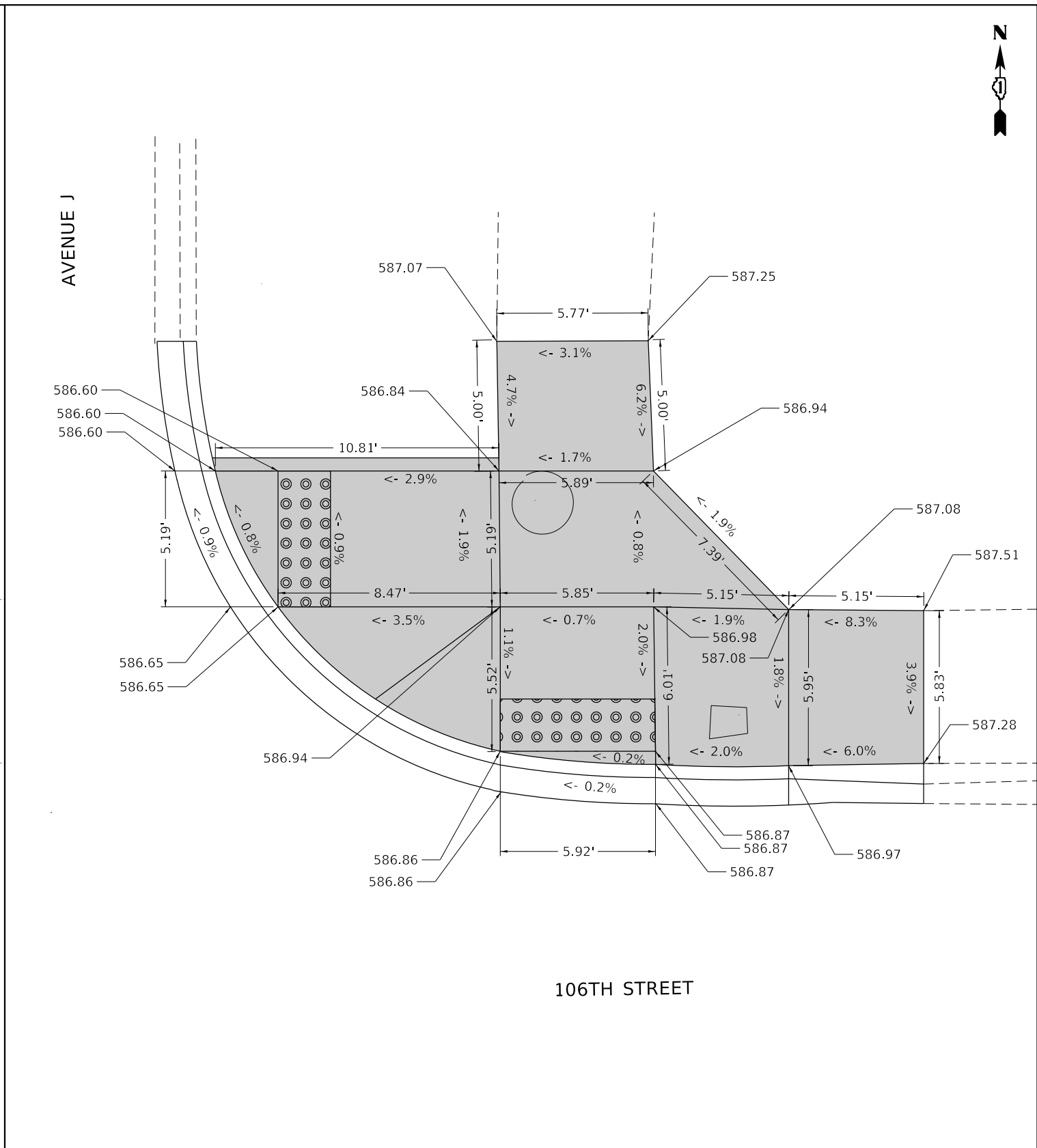
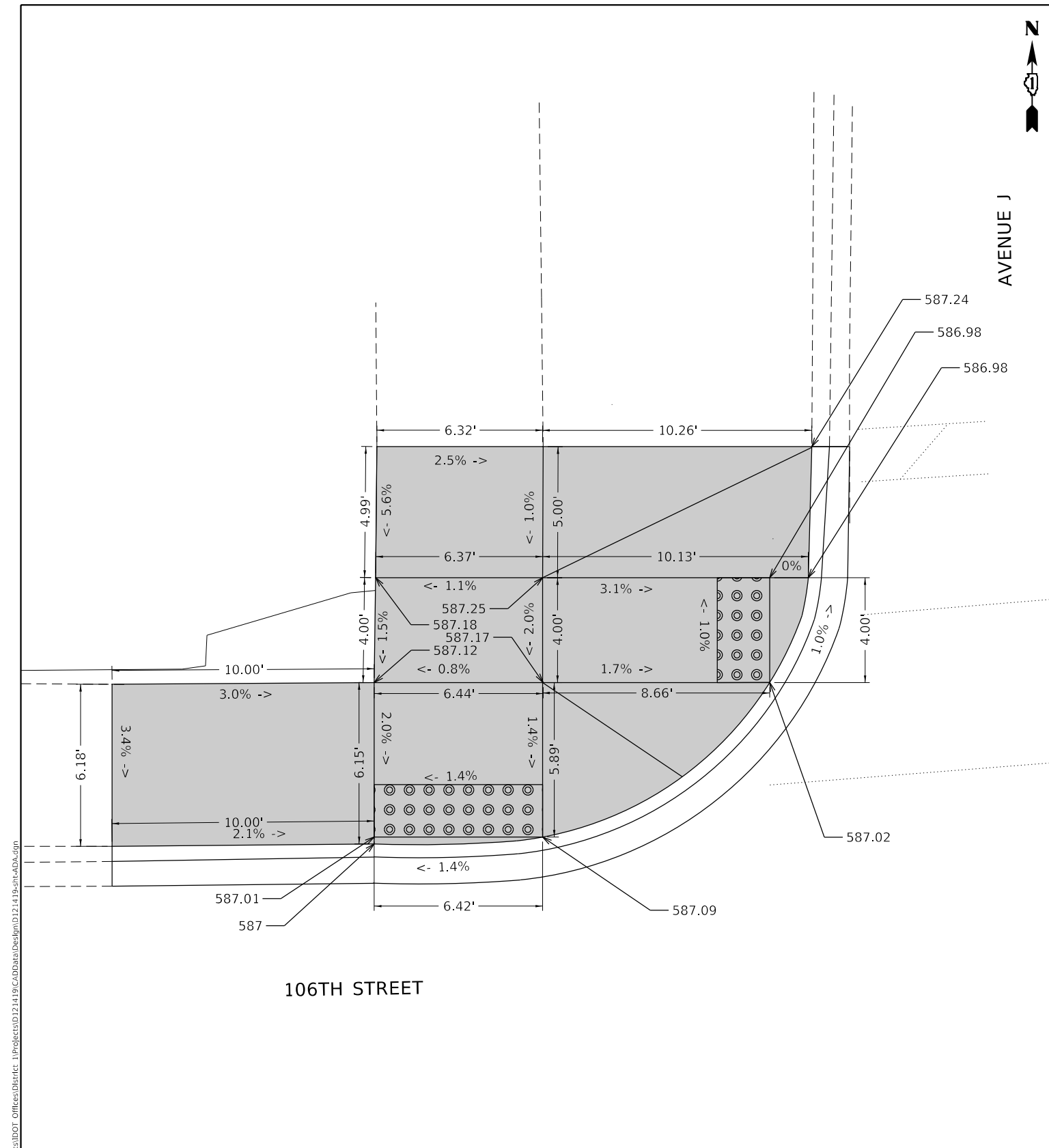
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN**  
**<<PROJECT ROAD>> - <<PROJECT LIMITS>>**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	12
CONTRACT NO.			62155	
ILLINOIS		FED. AID PROJECT		

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REFERENCE BENCHMARK ELEV 588.295  
 BENCHMARK : X-CUT ON NE BOLT OF FIRE HYDRANT ON SE CORNER  
 LOCATION : 106TH STREET AT AVENUE J.

REFERENCE BENCHMARK ELEV 588.295  
 BENCHMARK : X-CUT ON NE BOLT OF FIRE HYDRANT ON SE CORNER  
 LOCATION : 106TH STREET AT AVENUE J.

**LEGEND**

<span style="border: 1px solid black; padding: 2px;">xx.xx'</span>	EXISTING LENGTH	<span style="display: inline-block; width: 20px; height: 10px; background-color: gray; border: 1px solid black;"></span>	PROPOSED SIDEWALK
<span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span>	PROPOSED SIDE CURB	<span style="display: inline-block; width: 20px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></span>	DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE	<span style="display: inline-block; width: 20px; height: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></span>	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

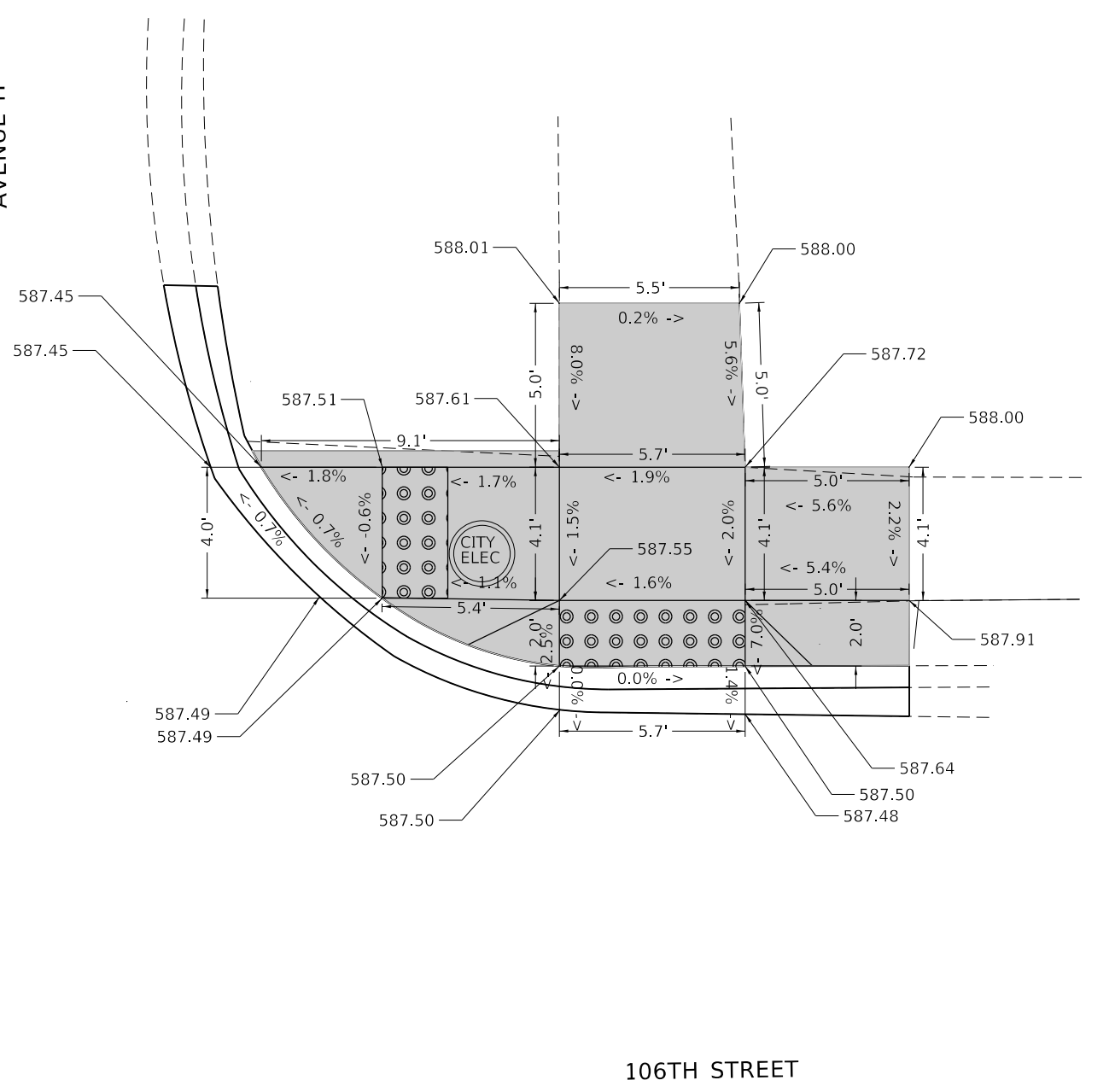
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	DATE -	REVISED -

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

**SIDEWALK DETAIL PLAN**  
**<<PROJECT ROAD>> - <<PROJECT LIMITS>>**

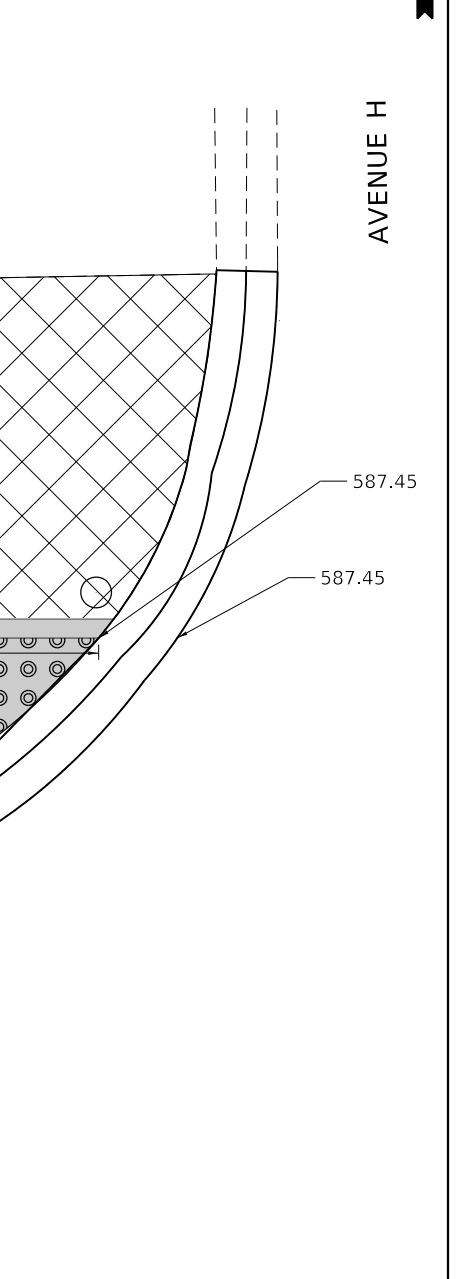
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			62155	
ILLINOIS FED. AID PROJECT				



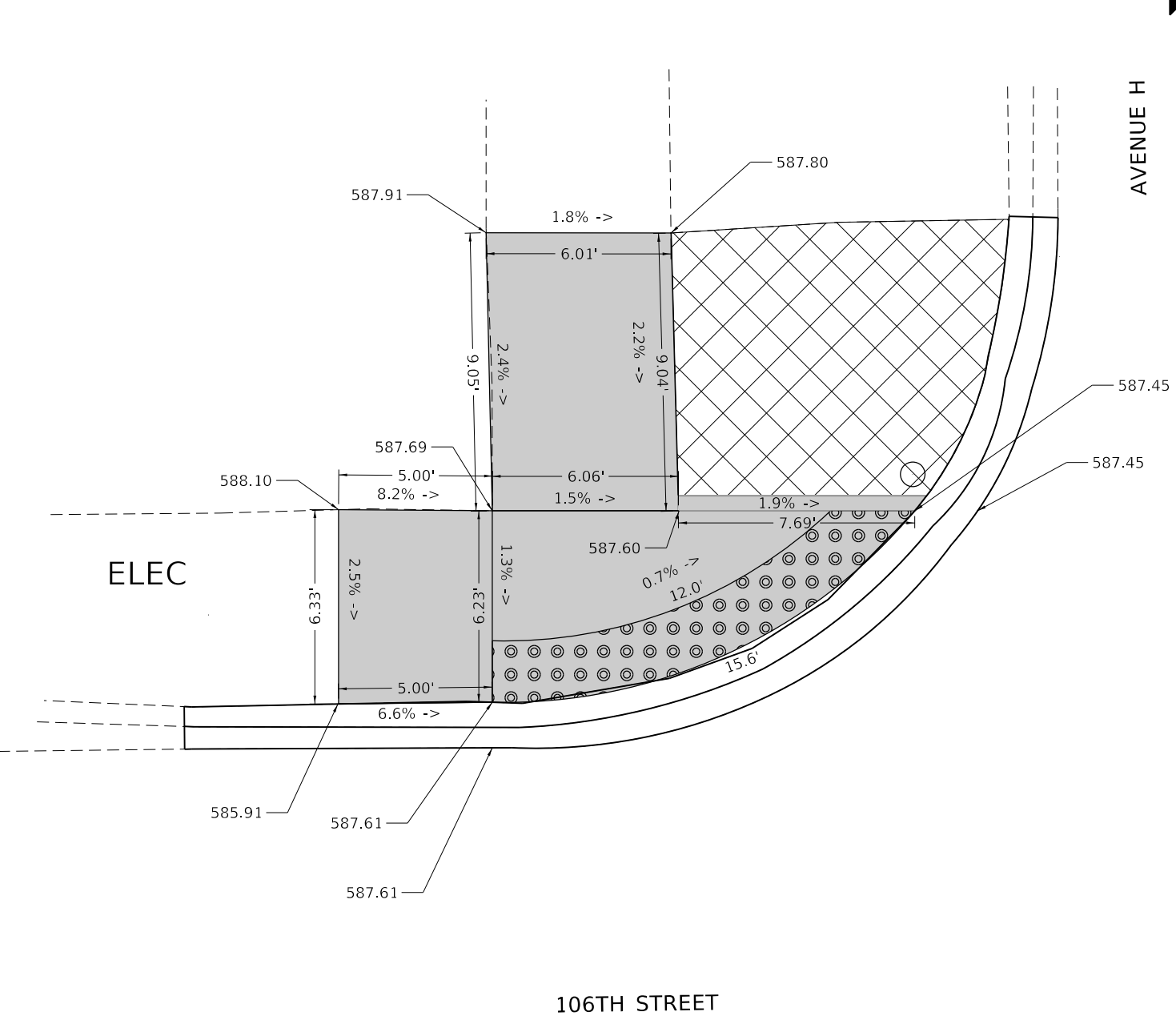
AVENUE H

106TH STREET



AVENUE H







106TH STREET



AVENUE H

106TH STREET

**LEGEND**

- |   |                          |   |   |
|---|--------------------------|---|---|
|  | EXISTING LENGTH          |  | PROPOSED SIDEWALK                           |
|  | PROPOSED SIDE CURB       |  | DETECTABLE WARNINGS                         |
|  | EXISTING ELEVATION/SLOPE |  | SIDEWALK REMOVAL<br>REPLACE W/TOPSOIL & SOD |

REFERENCE BENCHMARK ELEV 589.557  
 BENCHMARK : X-CUT ON SE BOLT OF FIRE HYDRANT ON SE CORNER  
 LOCATION : 106TH STREET AT AVENUE H.

REFERENCE BENCHMARK ELEV 589.557  
 BENCHMARK : X-CUT ON SE BOLT OF FIRE HYDRANT ON SE CORNER  
 LOCATION : 106TH STREET AT AVENUE H.

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/10/2019	DATE -	REVISED -

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

**SIDEWALK DETAIL PLAN**

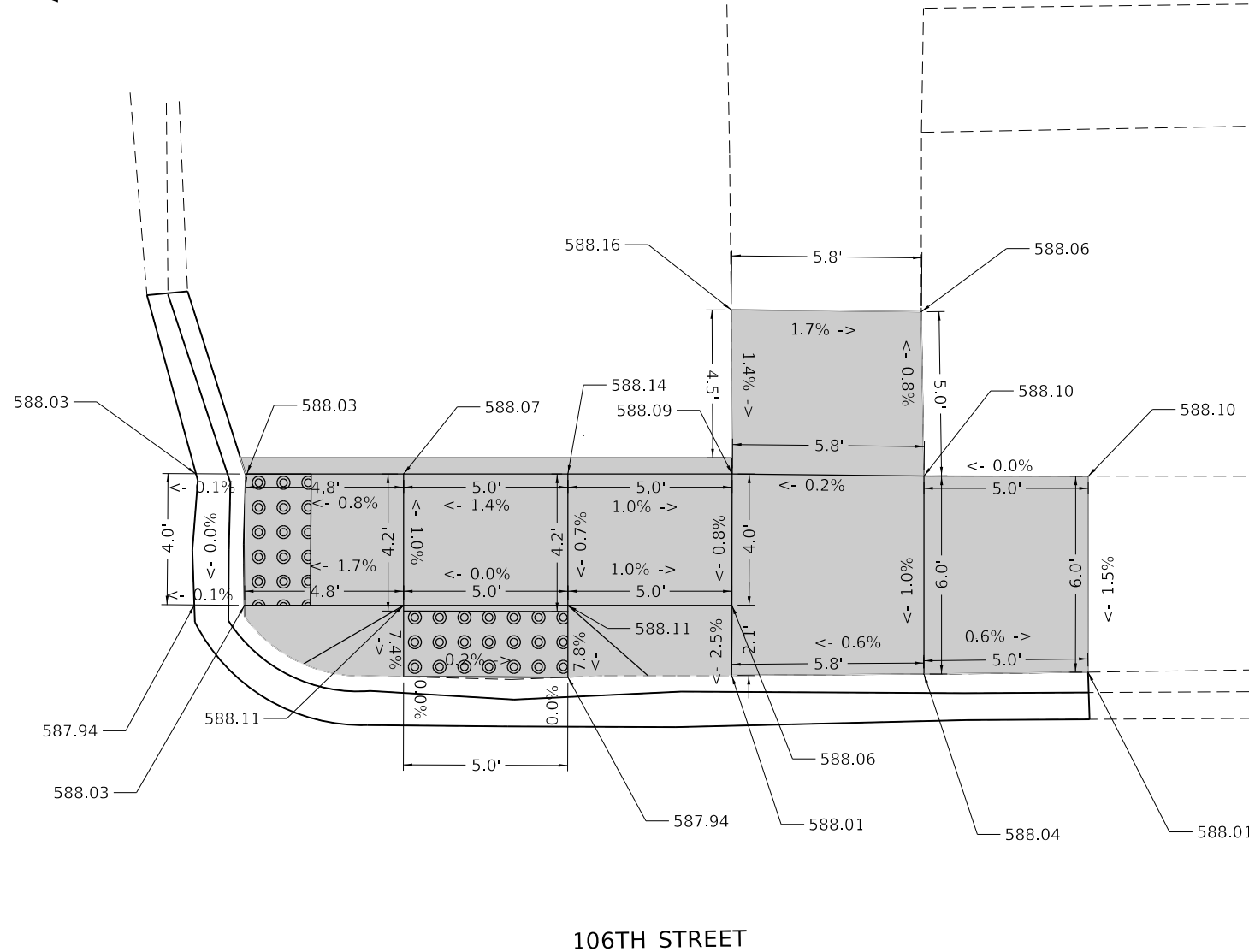
<<PROJECT ROAD>> - <<PROJECT LIMITS>>

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	14
ILLINOIS FED. AID PROJECT			CONTRACT NO.	62155

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 DATE: 12/10/2019

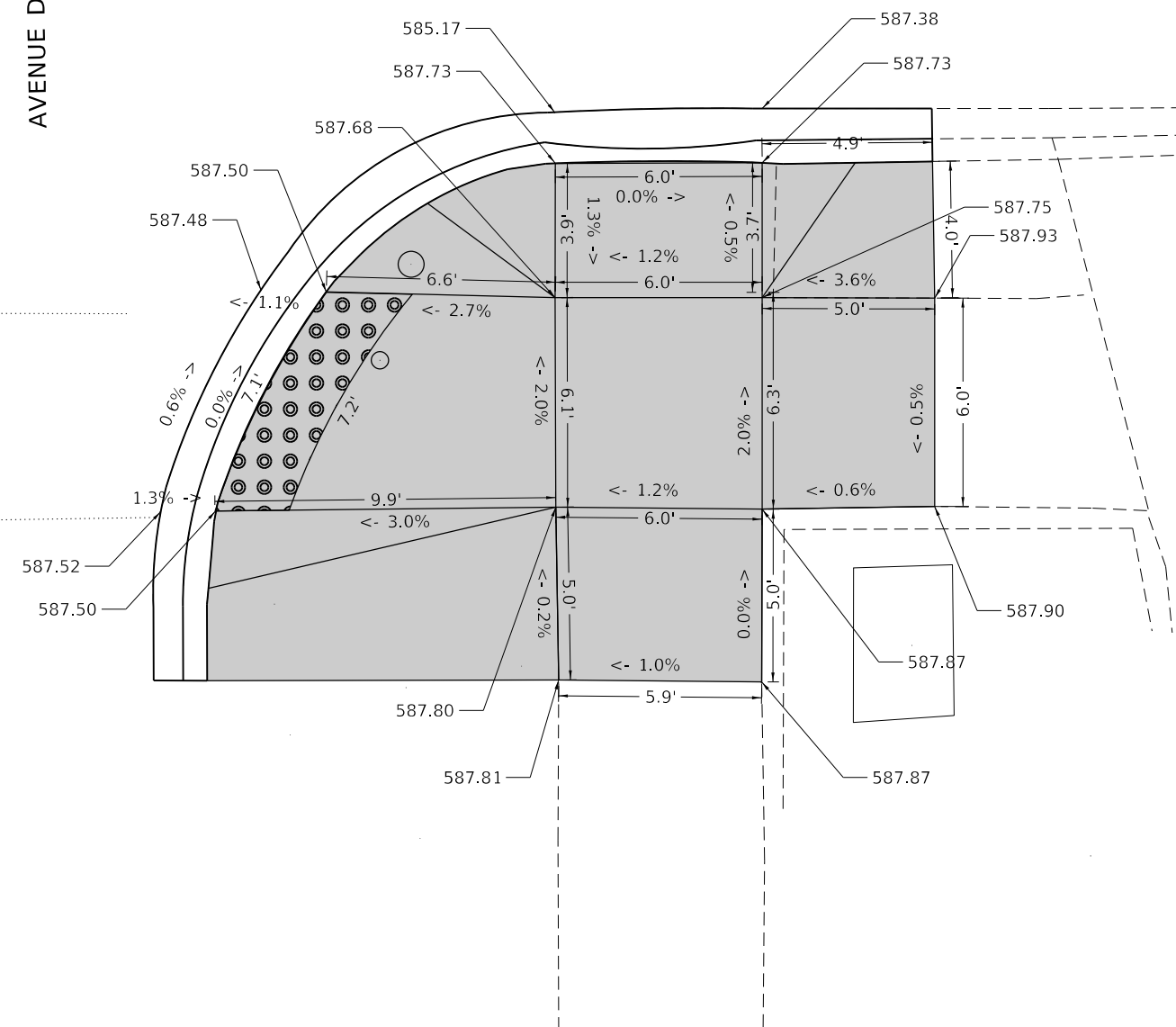
AVENUE F



106TH STREET

106TH STREET

AVENUE D



REFERENCE BENCHMARK ELEV 589.346  
 BENCHMARK : WEST BOLT OF FIRE HYDRANT ON NW CORNER  
 LOCATION : 106TH STREET AT AVENUE F.

REFERENCE BENCHMARK ELEV 588.965  
 BENCHMARK : X-CUT SE BOLT OF FIRE HYDRANT ON SE CORNER  
 LOCATION : 106TH STREET AT AVENUE D.

**LEGEND**

xx.xx'	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
( )	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

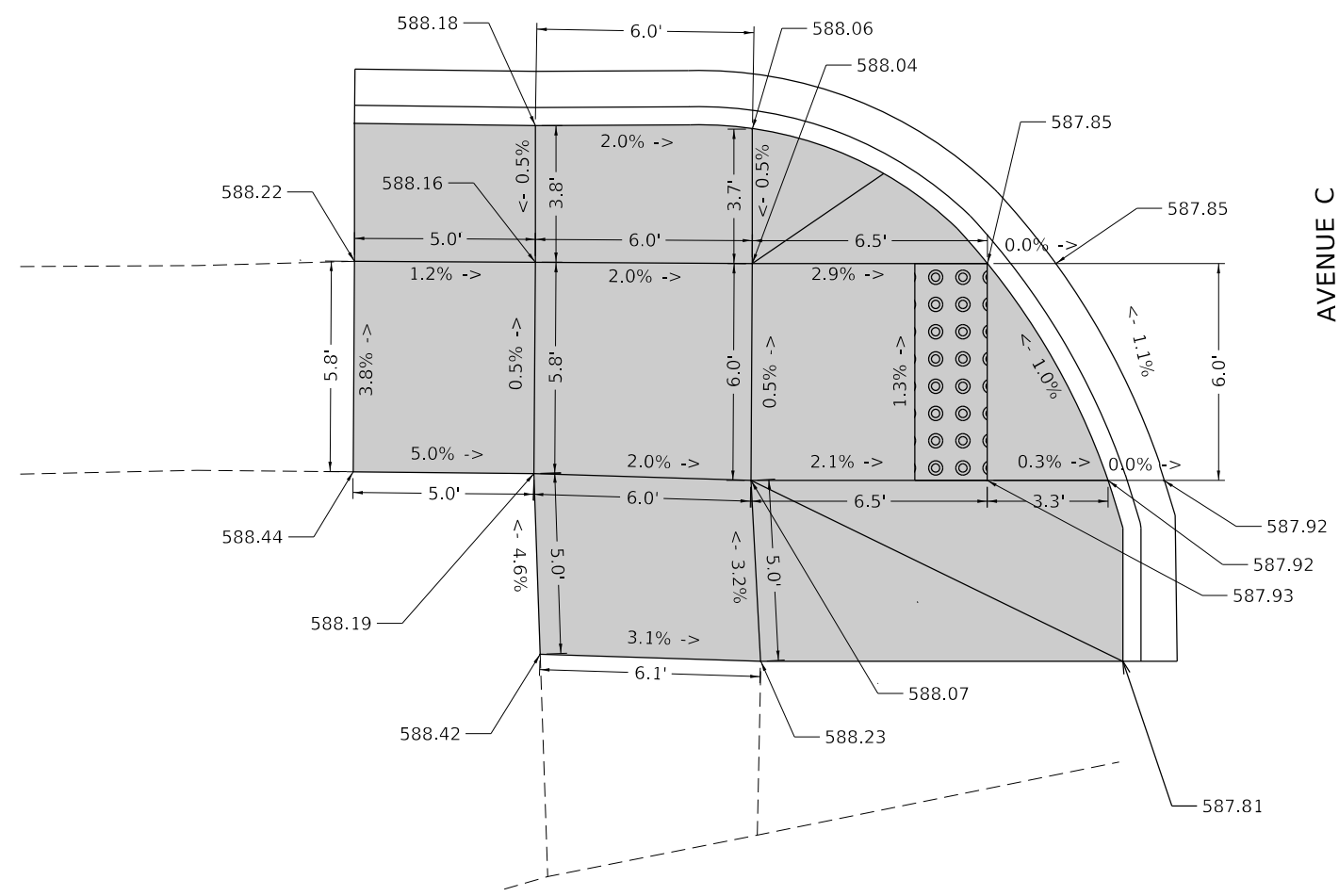
**SIDEWALK DETAIL PLAN**  
 <<PROJECT ROAD>> - <<PROJECT LIMITS>>  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	15
CONTRACT NO.			62155	
ILLINOIS FED. AID PROJECT				

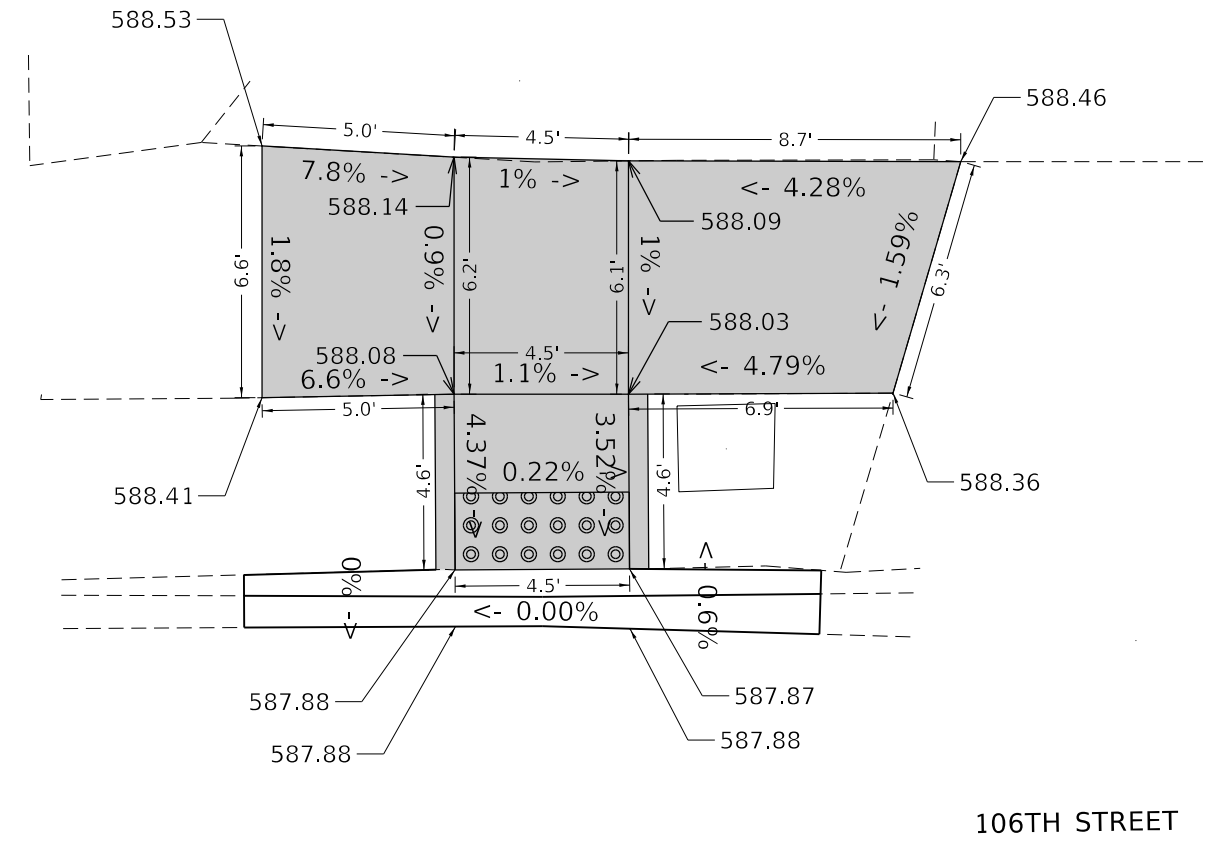
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# 106TH STREET



AVENUE C



AVENUE C

# 106TH STREET

REFERENCE BENCHMARK ELEV 589.971  
 BENCHMARK : NW BOLT OF FIRE HYDRANT ON NW CORNER  
 LOCATION : 106TH STREET AT AVENUE B.

REFERENCE BENCHMARK ELEV 589.971  
 BENCHMARK : NW BOLT OF FIRE HYDRANT ON NW CORNER  
 LOCATION : 106TH STREET AT AVENUE B.

### LEGEND

XX.XX'	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
 <<PROJECT ROAD>> - <<PROJECT LIMITS>>  
 SCALE: SHEET OF SHEETS STA. TO STA.

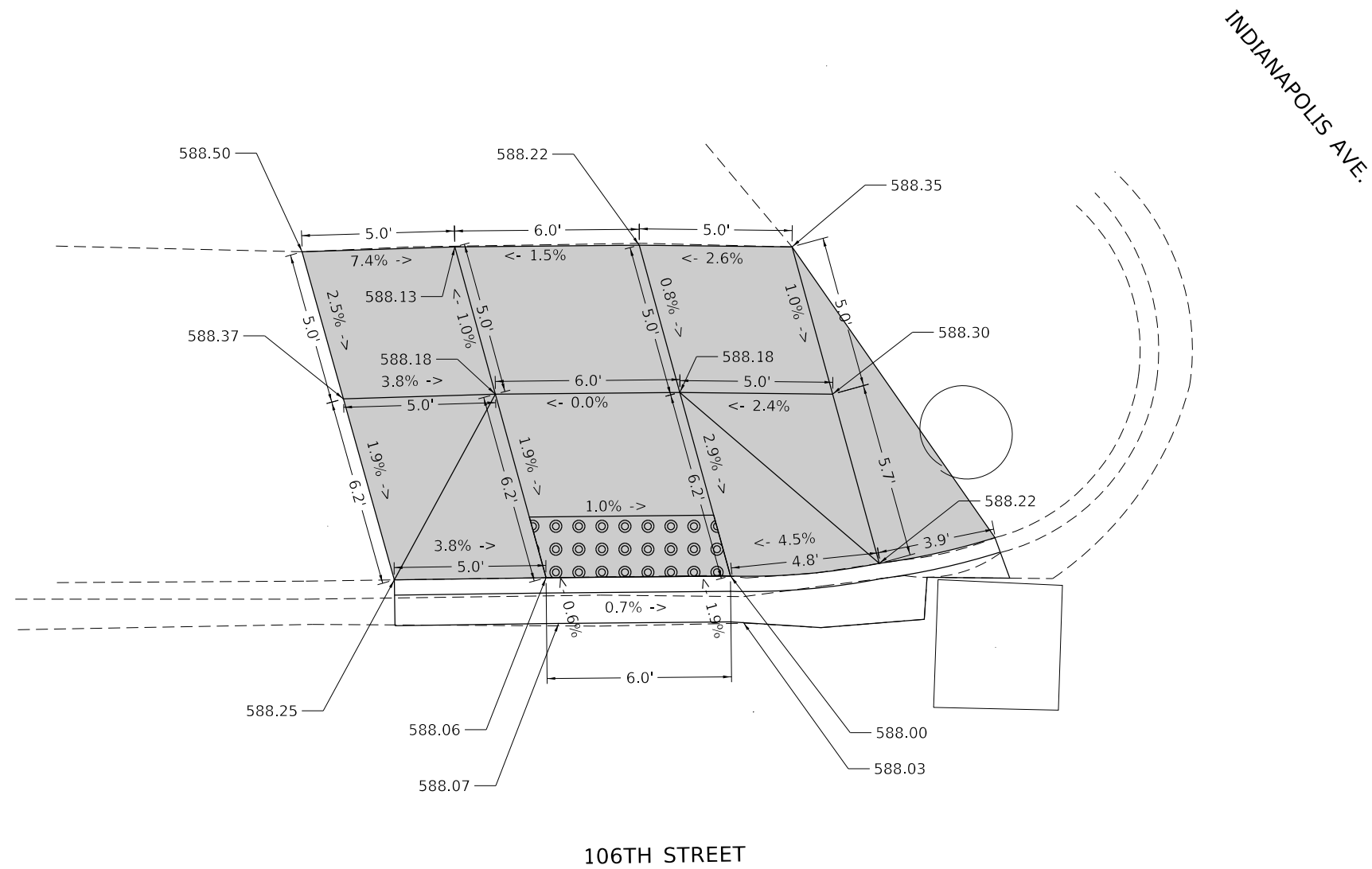
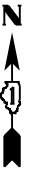
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1576	2019-068-R5&SW	COOK	33	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J55	

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REFERENCE BENCHMARK ELEV 588.121  
 BENCHMARK : NW BOLT OF FIRE HYDRANT ON NW CORNER  
 LOCATION : 106TH STREET AT INDIANAPOLIS AVE.

### LEGEND

- xx.xx' EXISTING LENGTH
- ==== PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- ⊙ DETECTABLE WARNINGS
- ⊗ SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

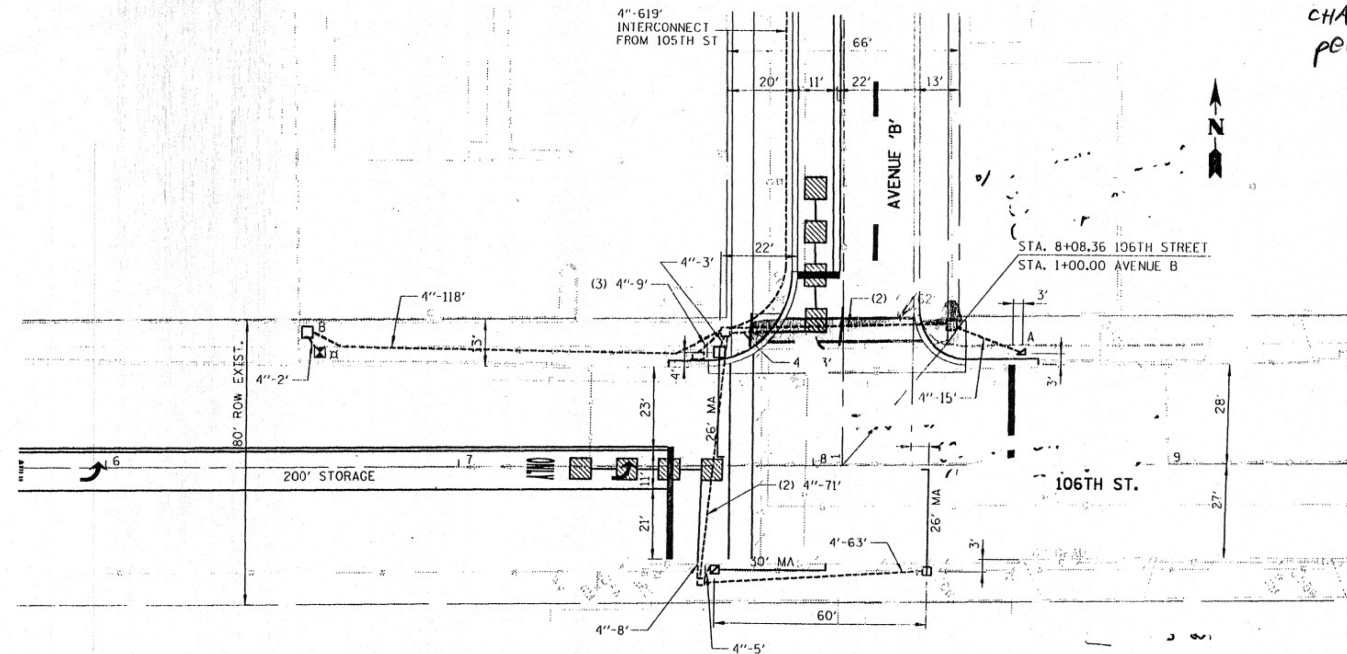
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PLOT DATE = 12/10/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SIDEWALK DETAIL PLAN</b>				
<b>&lt;&lt;PROJECT ROAD&gt;&gt; - &lt;&lt;PROJECT LIMITS&gt;&gt;</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

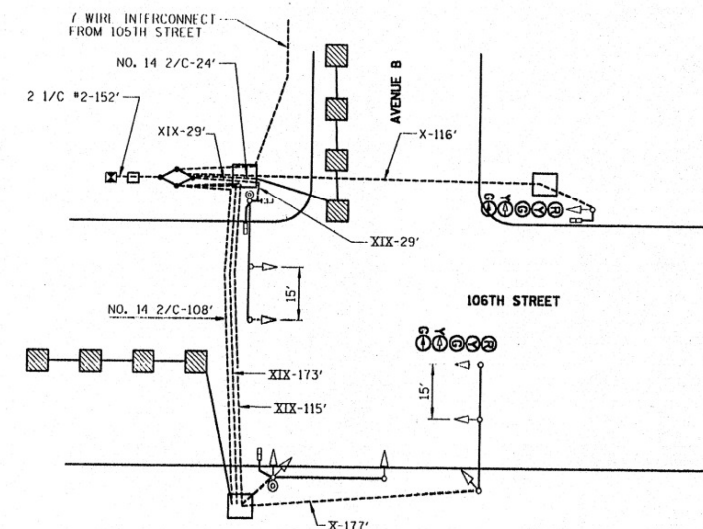
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1576	2019-068-R5&SW	COOK	33	19
				CONTRACT NO. 62J55
ILLINOIS FED. AID PROJECT				



**FOUNDATION AND CONDUIT PLAN**  
SCALE: 1"=20'

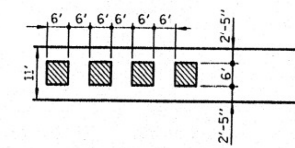
- NOTES:
- A - LOCATE ALL NEAR RIGHT SIGNALS AT STOP BAR
  - B - DRILL EXISTING MANHOLE

NOTE  
- ALL TS CONDUIT CHANGED TO 3" PVC PER BOE



**SIGNAL AND CABLE PLAN**  
NOT TO SCALE

NOTE 1: CONTRACTOR MUST FURNISH AND INSTALL TO AMP CIRCUIT BREAKERS AS INCIDENTAL TO THE CONTROLLER, TRAFFIC, 12 LOAD BAY, M CABINET PAY ITEM



**TYPICAL LOOP LOCATIONS**

NOTES:

THE LOOP DETECTOR INSTALLATION AND INTERCONNECT AS SHOWN ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "CONTROLLER, TRAFFIC, 12 LOAD BAY, M CABINET" WITH THE FOLLOWING QUANTITIES:

245	LIN FT	DETECTOR LOOP
2	EACH	VEHICLE DETECTOR AMPLIFIER, 1-CHANNEL
132	LIN FT	ELECTRIC CABLE IN CONDUIT, *14 2/C SHIELDED

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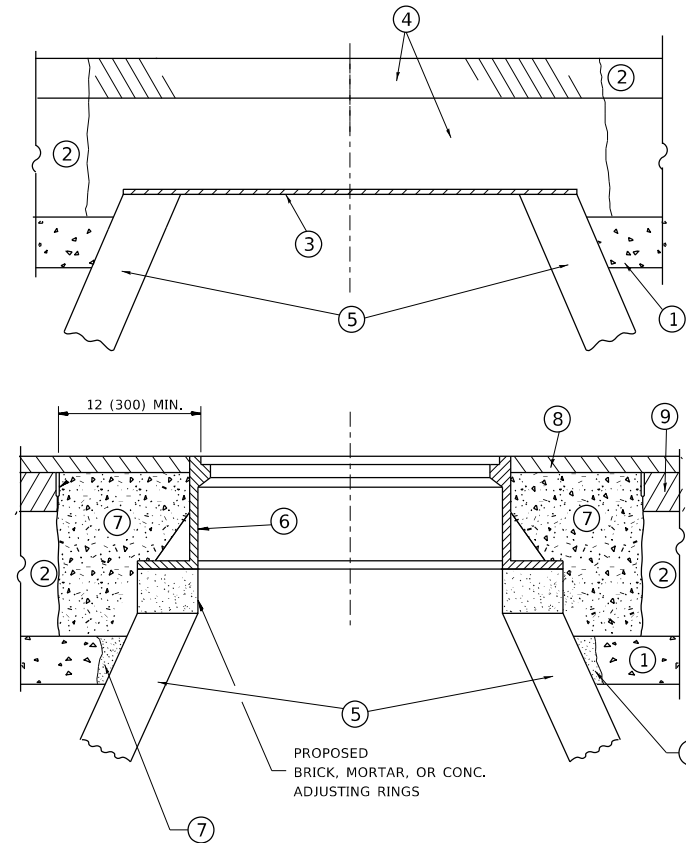
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PLOT DATE = 12/10/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP DETAILS (FOR INFORMATION ONLY)  
106TH STREET TORRENCE AVE. TO US-12/41 (INDIANAPOLIS AVE.)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	20
CONTRACT NO. 62J55				
ILLINOIS FED. AID PROJECT				



**NOTES**

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

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

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

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

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

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

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

**STAGE 2 (AFTER PAVEMENT MILLING)**

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

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

- |  |                               |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL                 | ⑥ FRAME AND LID (SEE NOTES)   |
| ② EXISTING PAVEMENT                          | ⑦ CLASS PP-1 *CONCRETE        |
| ③ 36 (900) DIAMETER METAL PLATE              | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE  |
| ⑤ EXISTING STRUCTURE                         |                               |

**LOCATION OF STRUCTURES**

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

**BASIS OF PAYMENT**

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

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

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

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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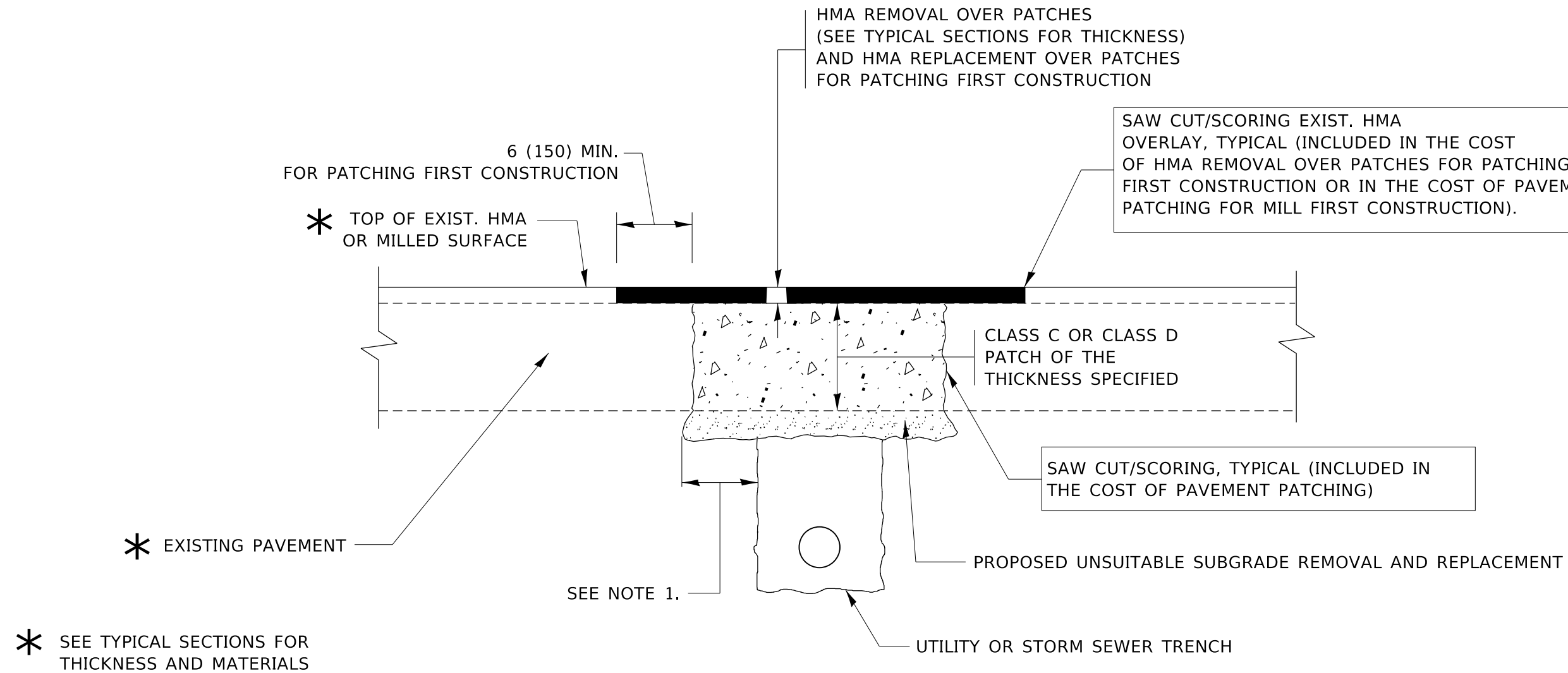
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PLOT DATE = 12/10/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	21
<b>BD600-03 (BD-8)</b>		CONTRACT NO.	62J55	
ILLINOIS		FED. AID PROJECT		



**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 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 12/10/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

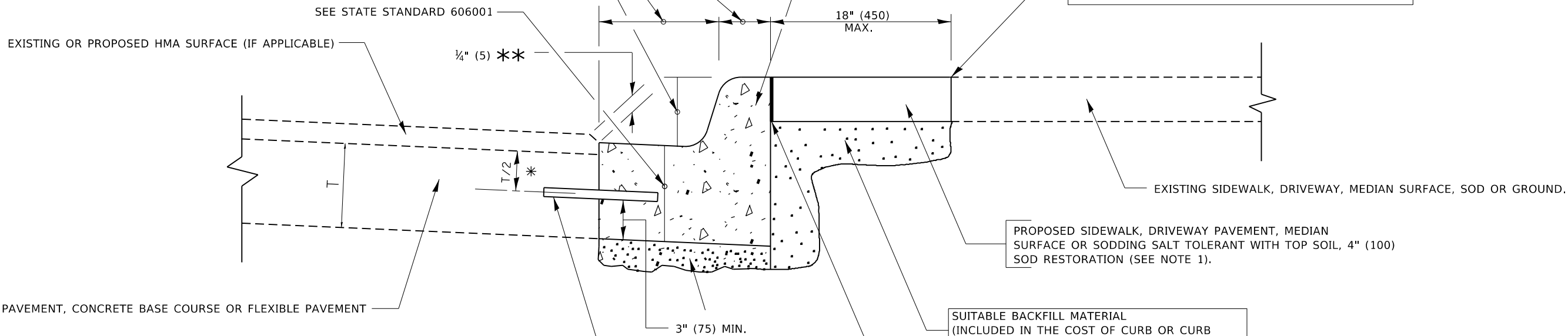
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	22
<b>BD400-04 (BD-22)</b>		CONTRACT NO. 62J55		
ILLINOIS FED. AID PROJECT				

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.



\* 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.

**NOTE:**

- 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.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- 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.
- 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.
- 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.
- 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.

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.)

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.

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 USUABLE 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.

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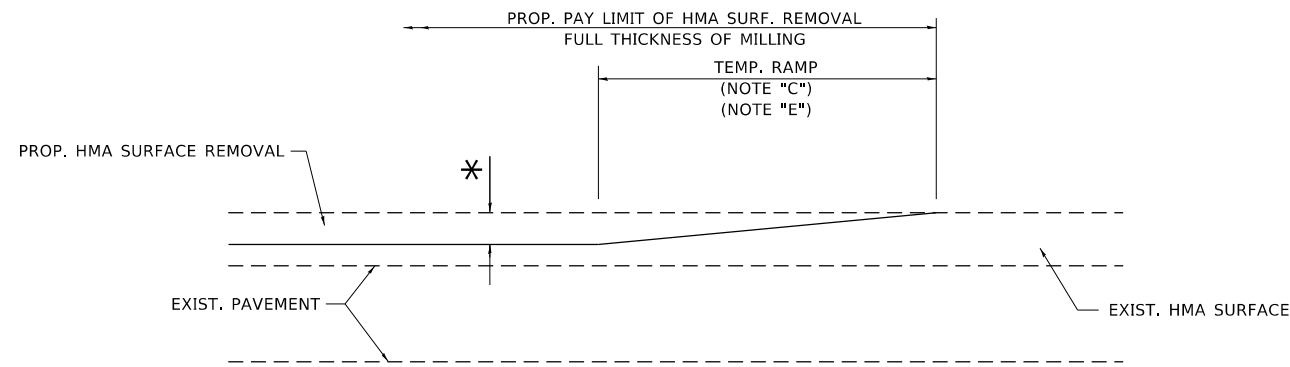
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PLOT DATE = 12/10/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT

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

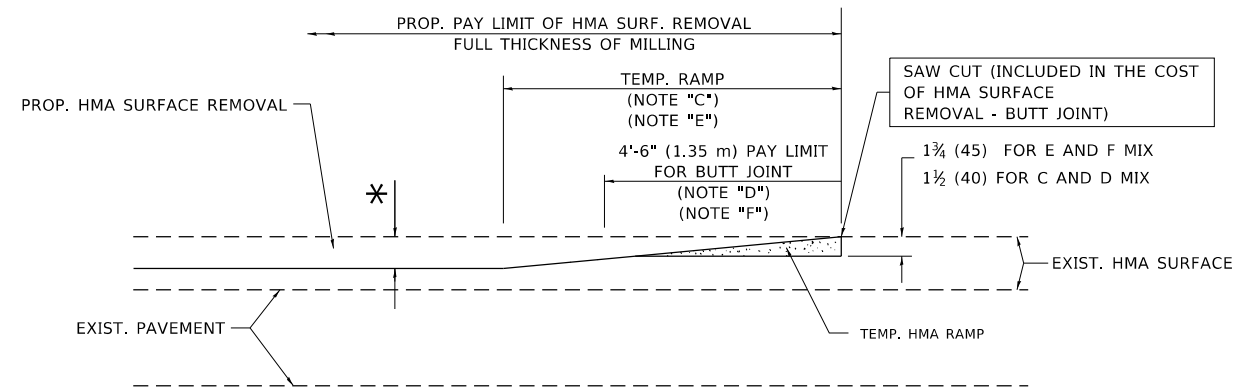
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	23
BD600-06 (BD-24)		CONTRACT NO. 62J55		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

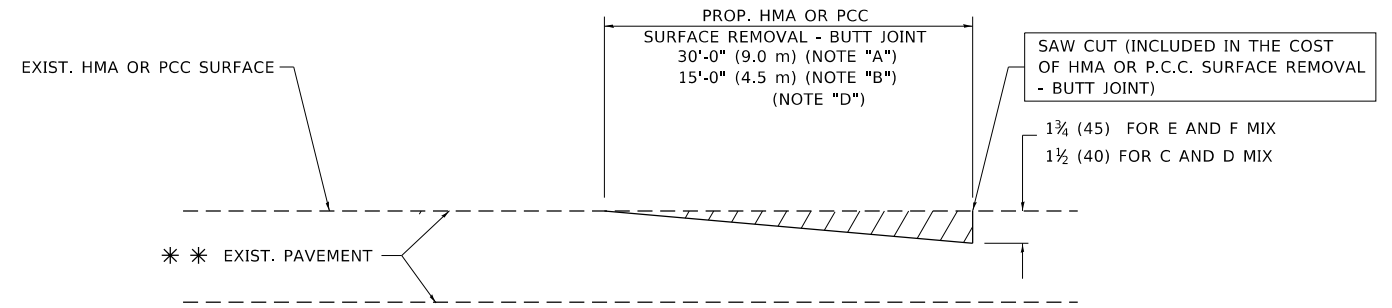


**HMA CONSTRUCTED TEMPORARY RAMP**

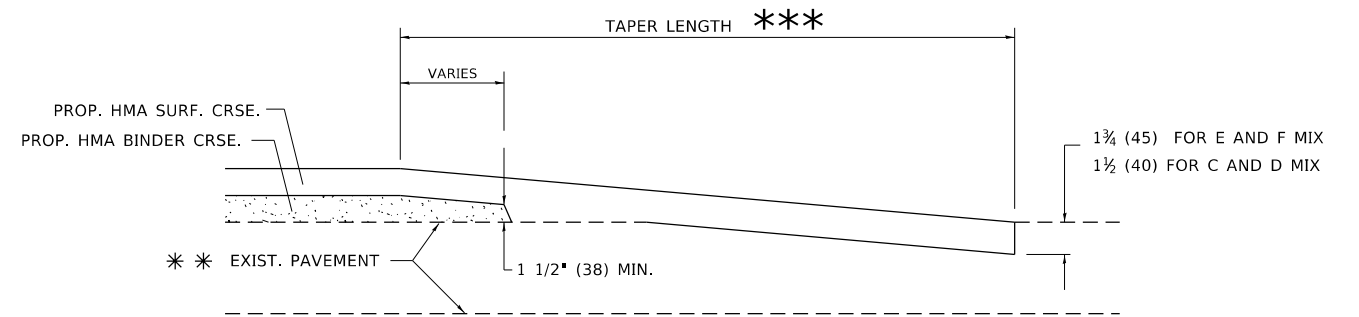
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

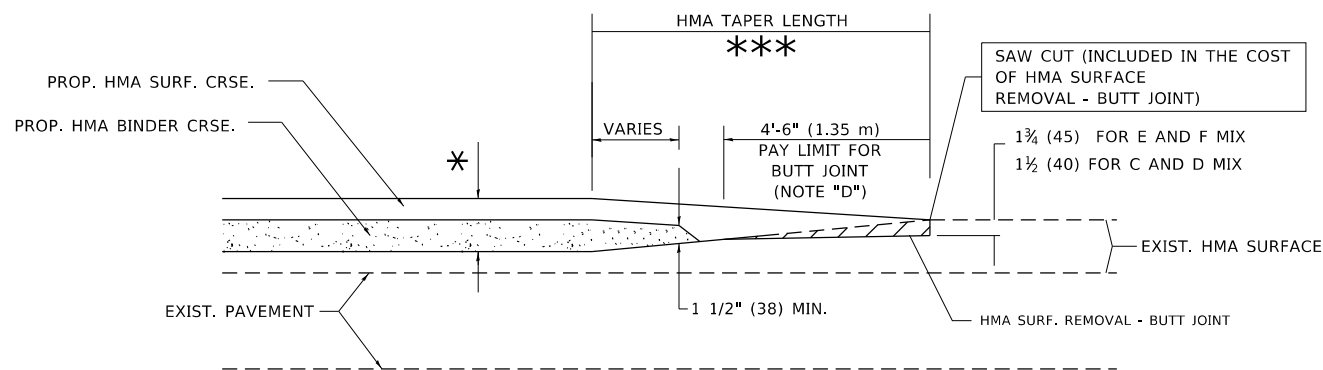
**NOTES**

- 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 = 12/10/2019	DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01
		REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

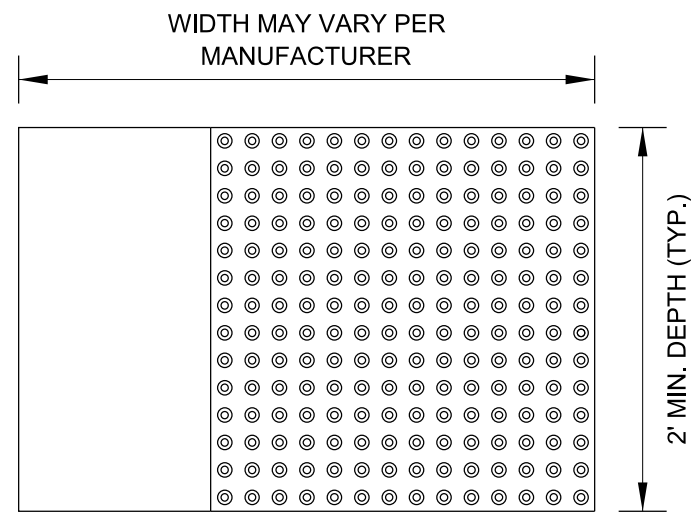
**BUTT JOINT AND  
HMA TAPER DETAILS**

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

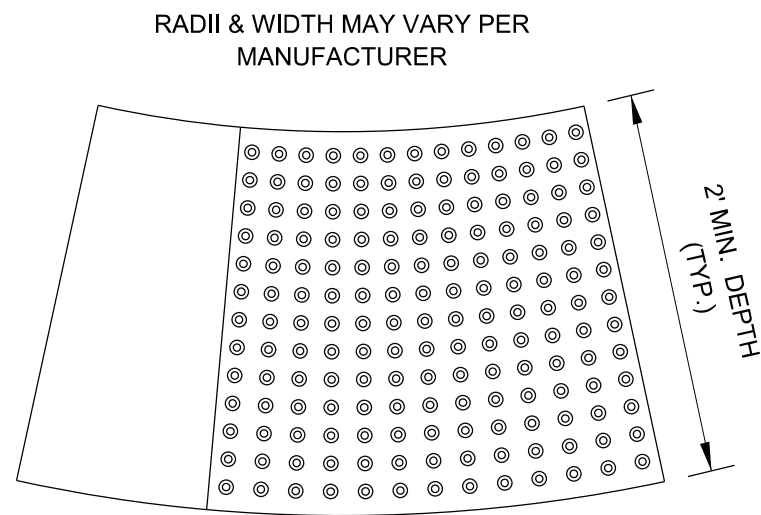
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1576	2019-068-R5&SW	COOK	33	24
<b>BD400-05 BD32</b>		CONTRACT NO. 62J55		
ILLINOIS FED. AID PROJECT				



### STRAIGHT DETECTABLE WARNING UNITS



### RADIAL DETECTABLE WARNING UNITS

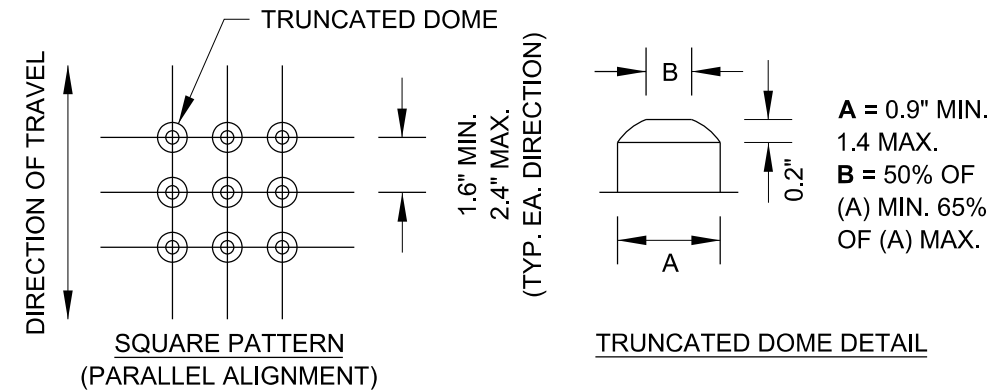


### DETECTABLE WARNING UNIT SIZES

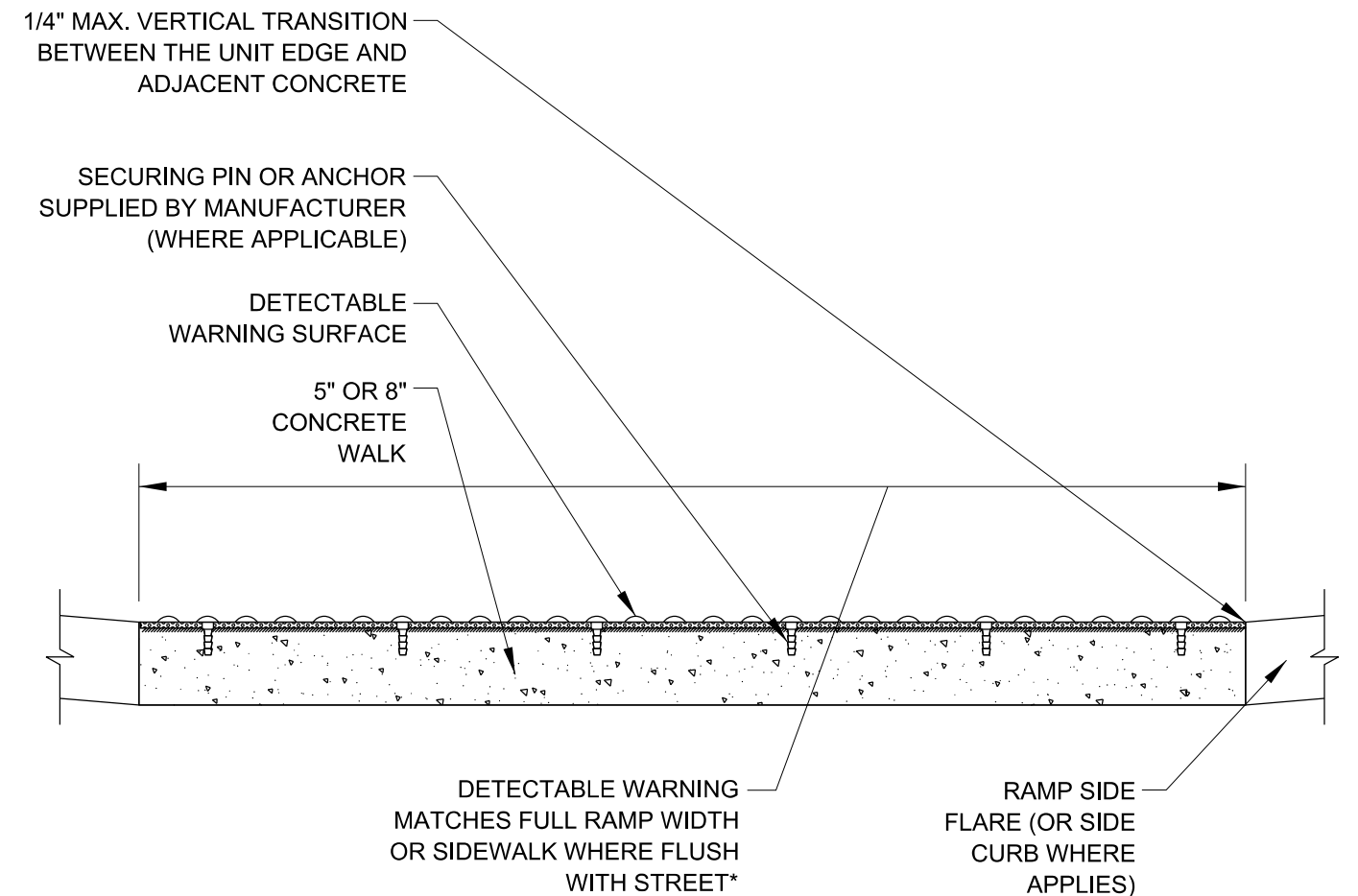
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

### GENERAL NOTE:

THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



### UNIT PATTERN & DOME DETAIL



\*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

### DETECTABLE WARNING UNIT SECTION

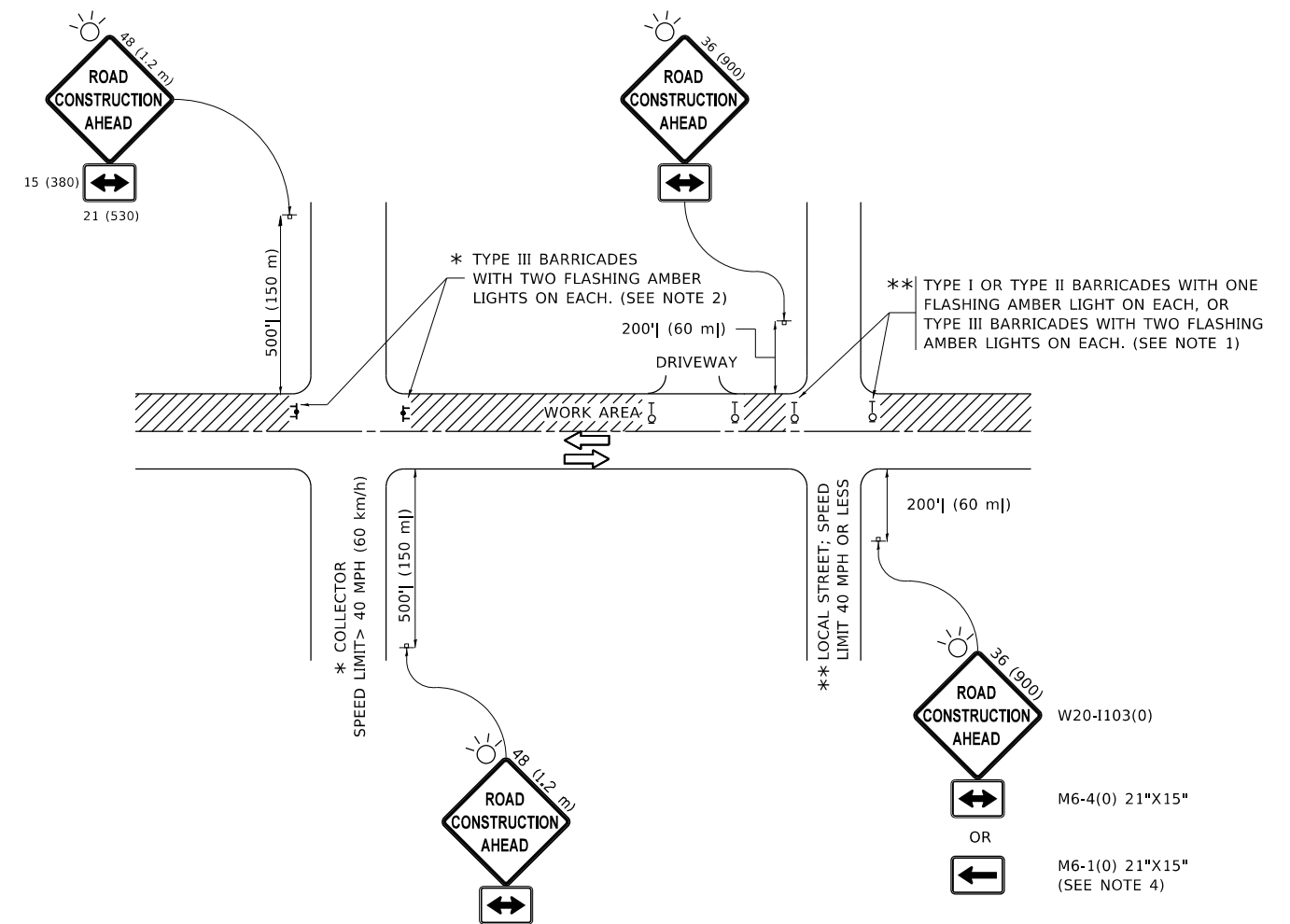
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PLOT DATE = 12/10/2019	DATE - 06-20-2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO DETECTABLE WARNINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	25
BD 58		CONTRACT NO. 62J55		
ILLINOIS FED. AID PROJECT				



**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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE 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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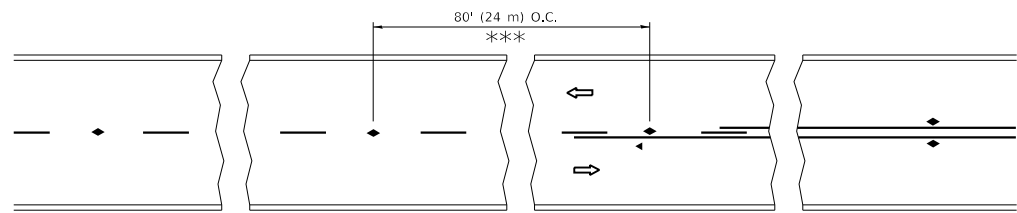
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PLOT DATE = 12/10/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

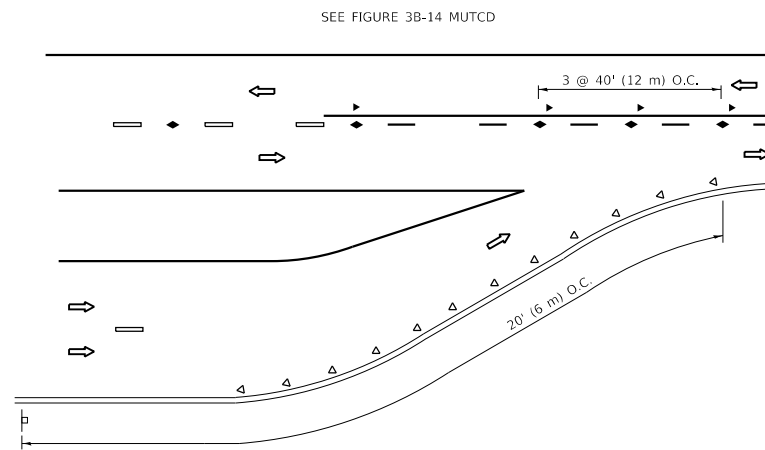
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	26
<b>TC-10</b>			CONTRACT NO. 62J55	
ILLINOIS FED. AID PROJECT				

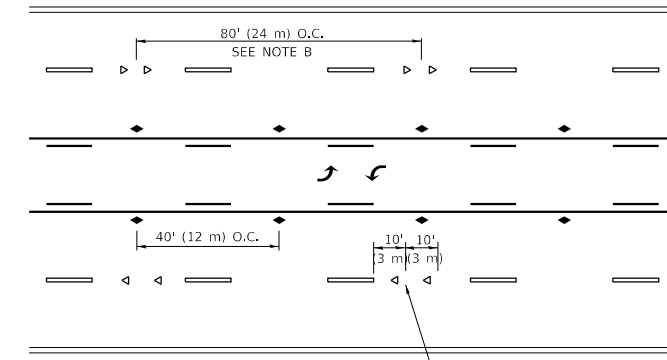


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

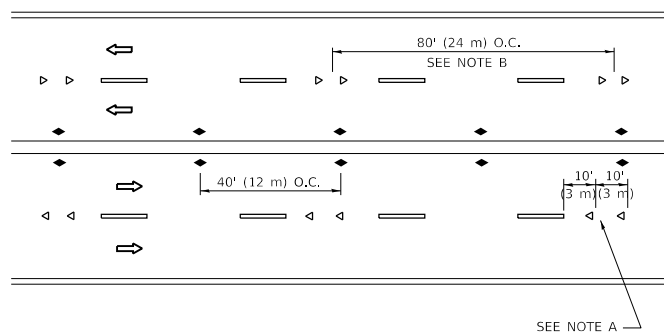
**TWO-LANE/TWO-WAY**



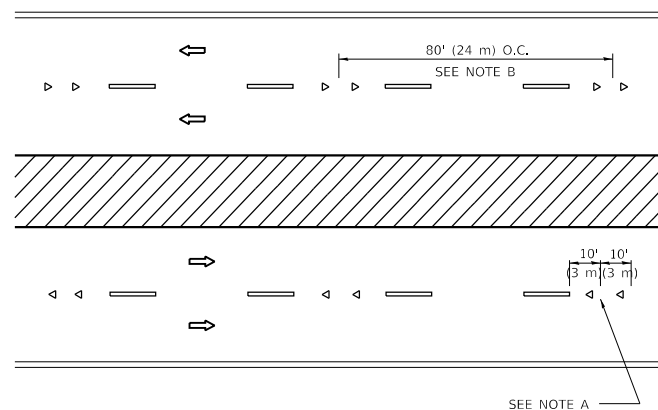
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

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

**SYMBOLS**

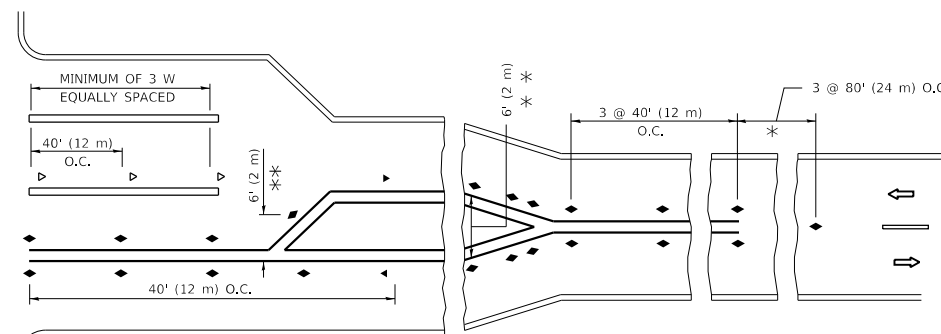
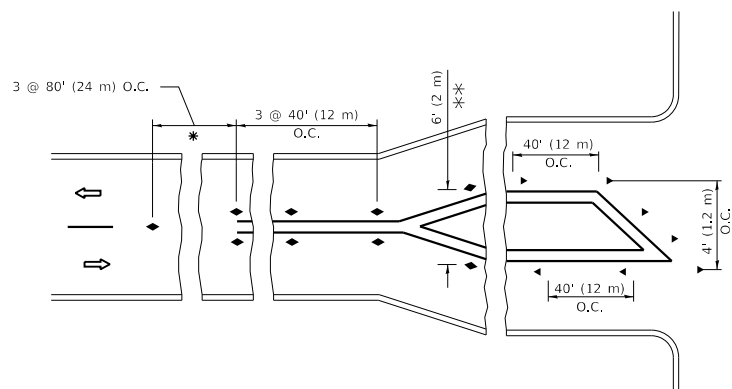
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

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

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF 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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PLOT SCALE = 99.7803' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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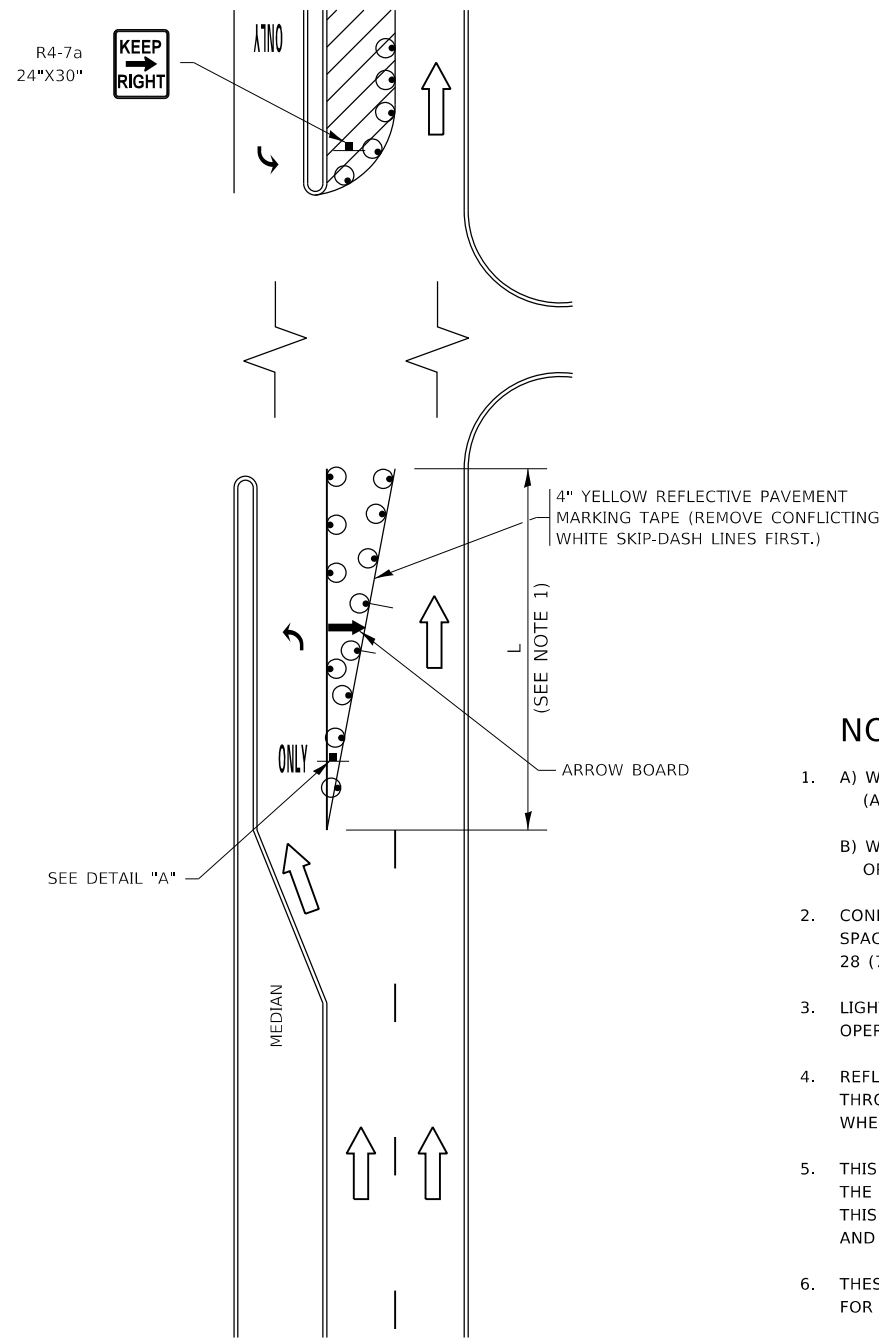
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

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

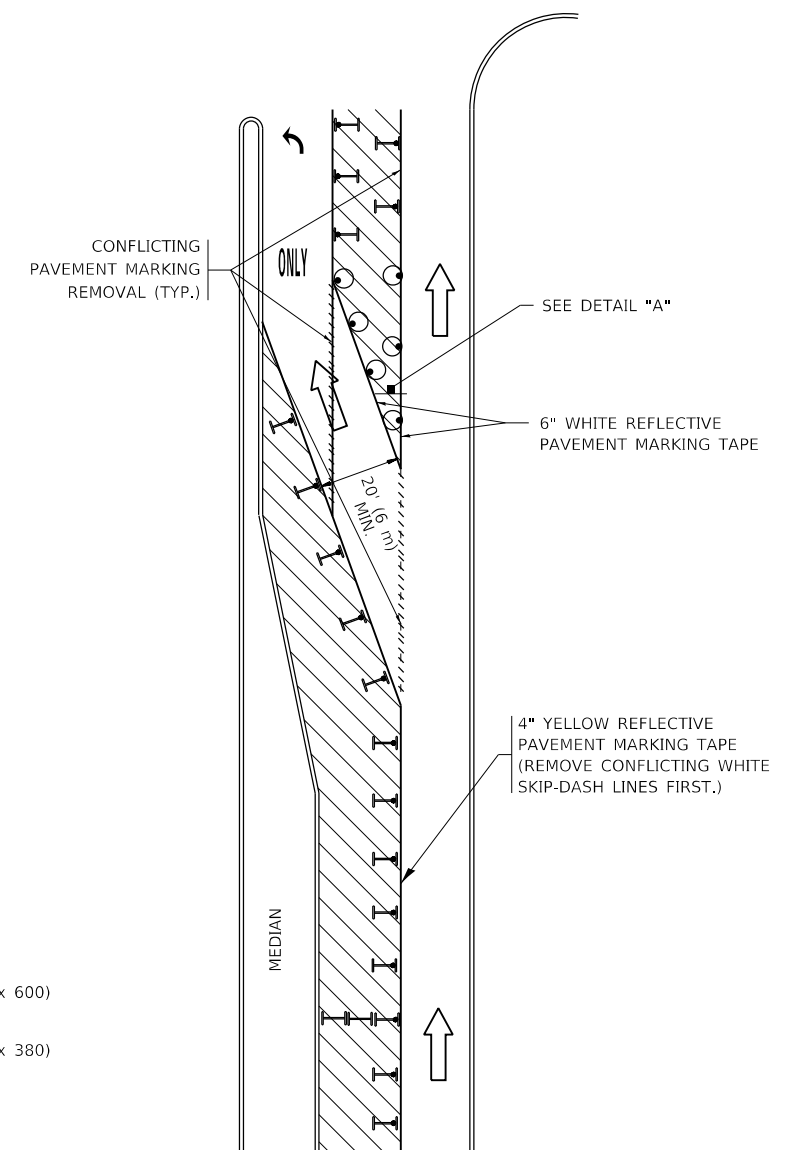
F.A.U. RTE. 1576	SECTION 2019-068-RS&SW	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 27
TC-11			CONTRACT NO. 62J55	
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



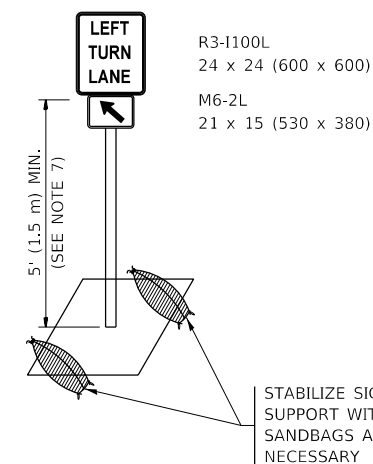
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

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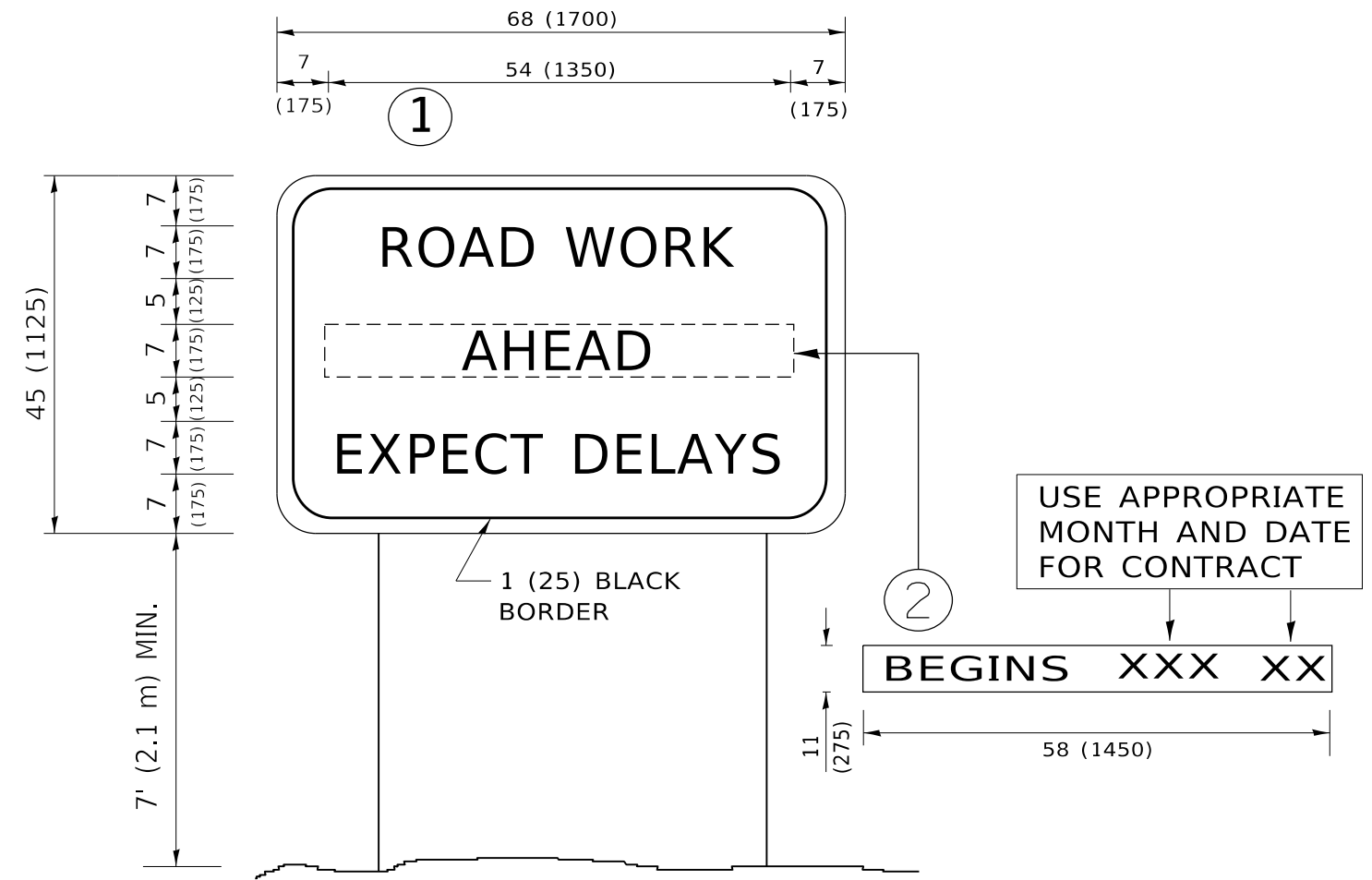
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 12/10/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	28
TC-14		CONTRACT NO. 62J55		
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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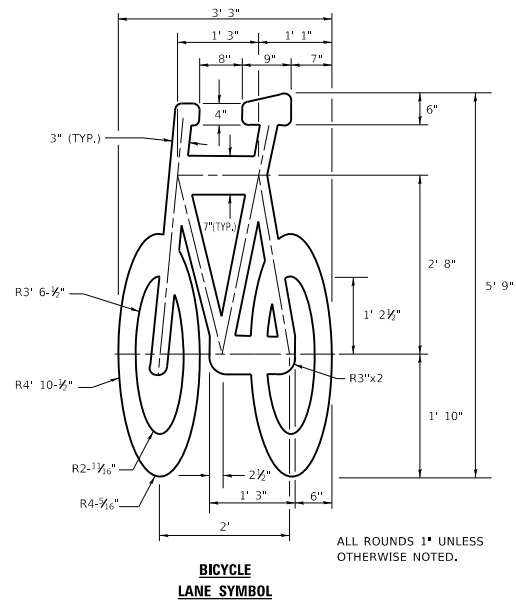
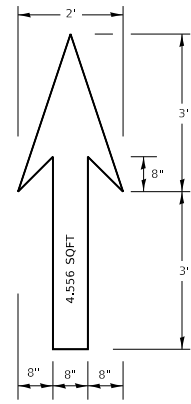
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PLOT DATE = 12/10/2019	DATE -	REVISED - C. JUCIUS 01-31-07

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-22</b>		CONTRACT NO. 62J55		
ILLINOIS FED. AID PROJECT				

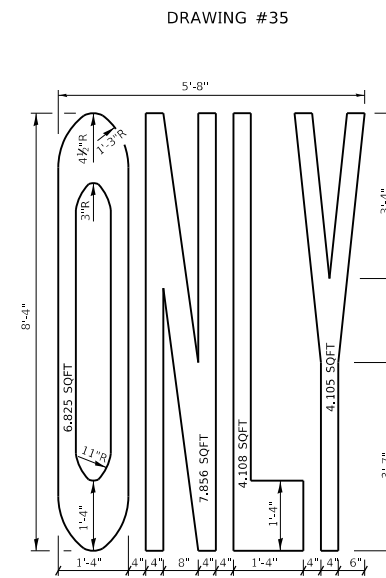
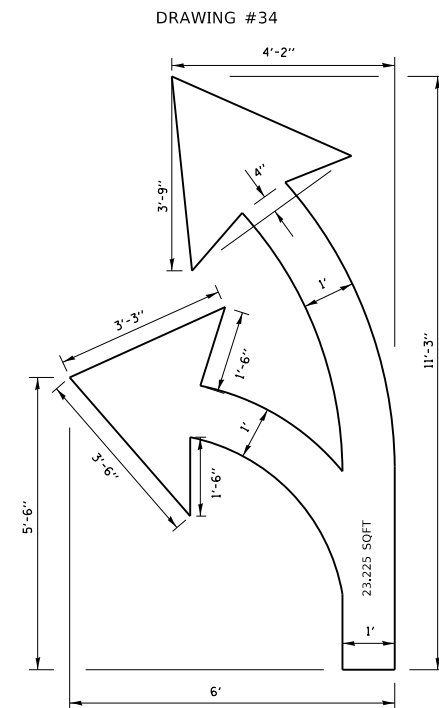
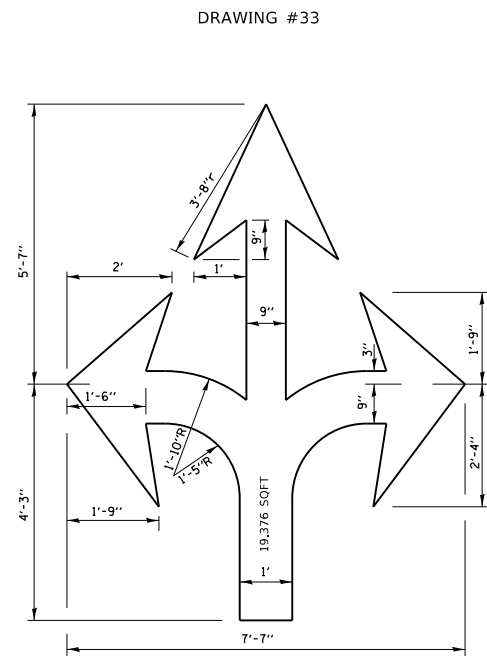
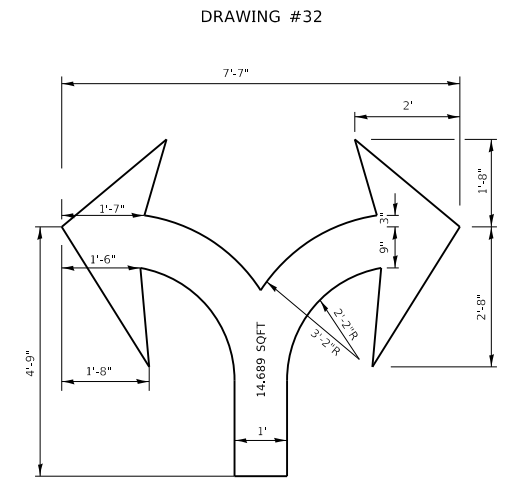
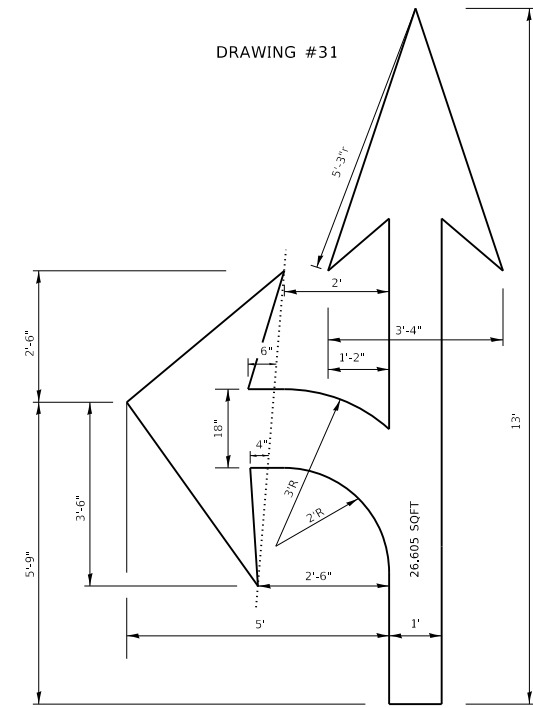
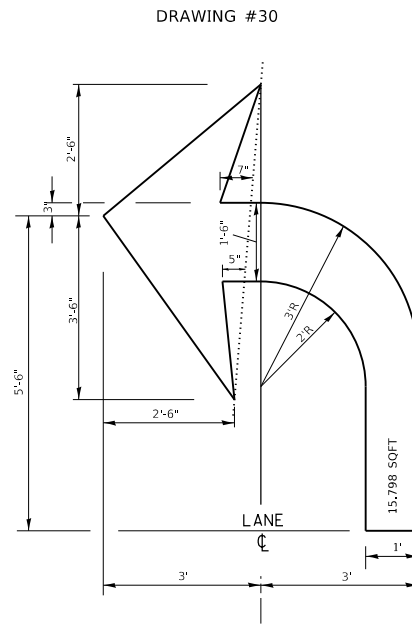
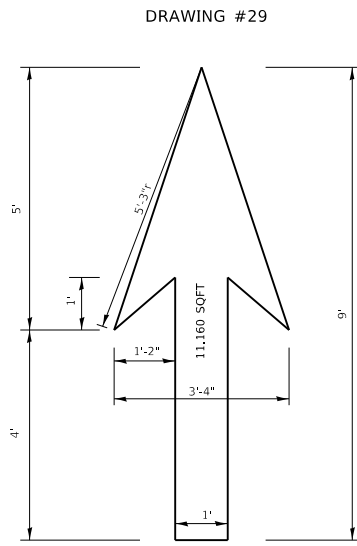




**NOTE:**

1. FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
2. THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

**TYPICAL BIKE LANE SYMBOLS**  
DRAWING #28



**NOTE:**

ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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PLOT DATE = 12/10/2019	CHECKED -	REVISED -
	DATE -	REVISED -

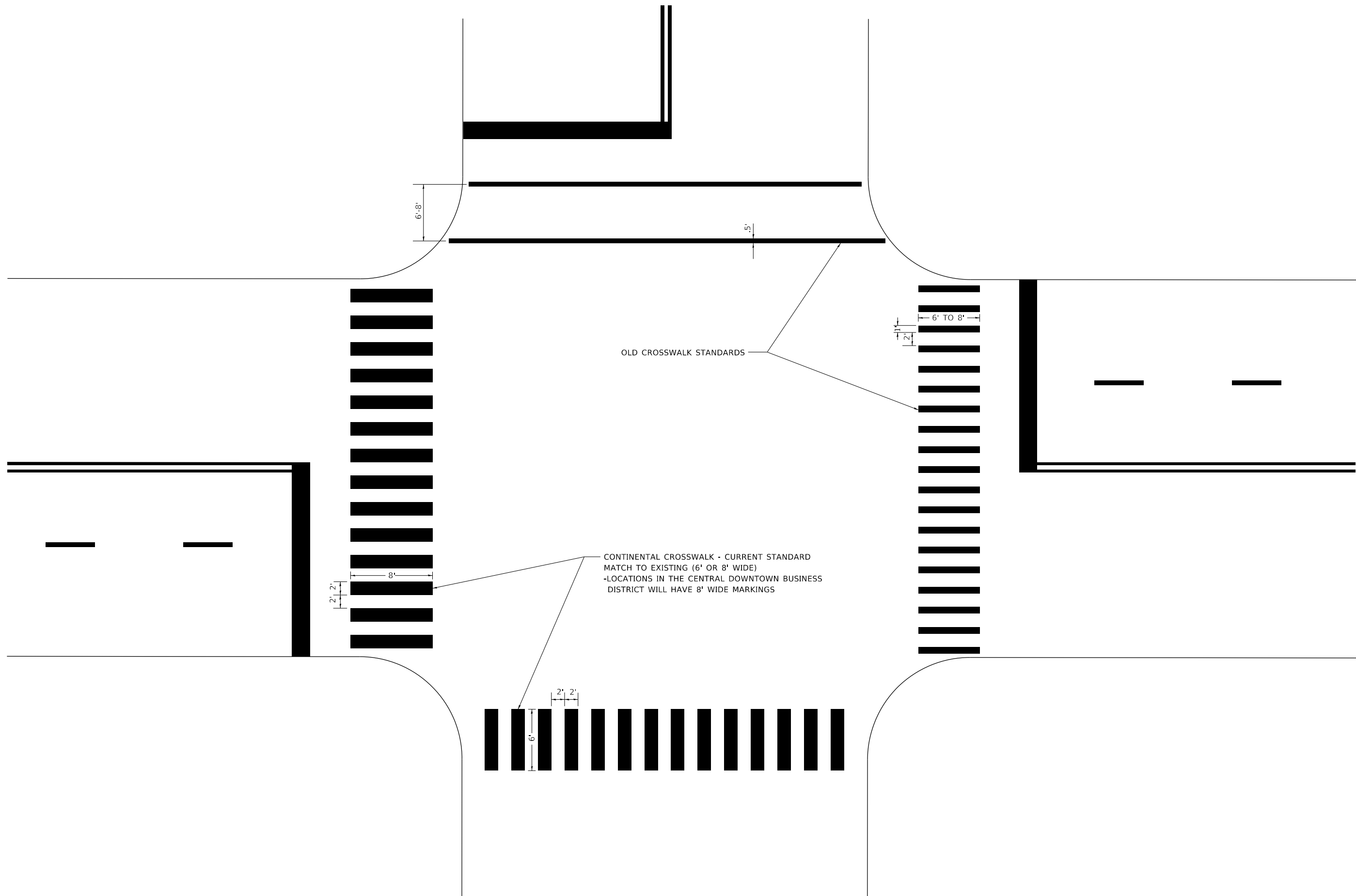
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO**  
**TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	31
<b>TC-24</b>		CONTRACT NO. 62J55		
ILLINOIS		FED. AID PROJECT		

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PLOT DATE = 12/10/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
 TYPICAL PAVEMENT MARKINGS**

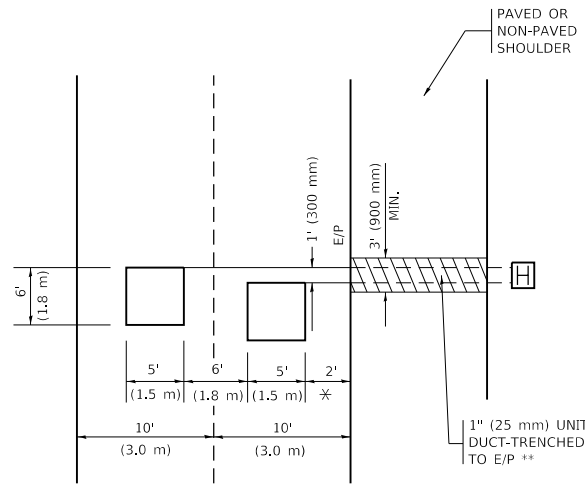
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	32
<b>TC-24</b>			CONTRACT NO. 62J55	
ILLINOIS FED. AID PROJECT				



**LOOPS NEXT TO SHOULDERS**

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

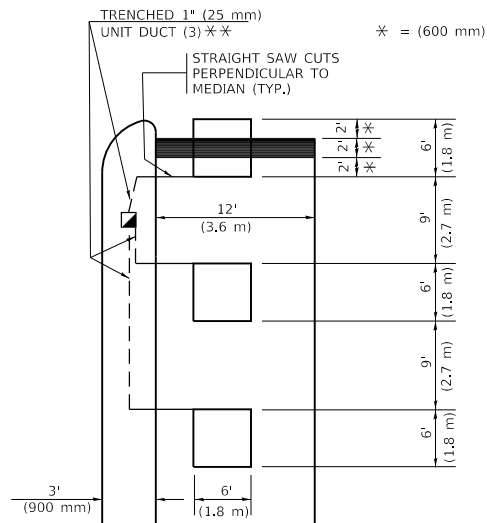


\* = (600 mm)

\*\* 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.

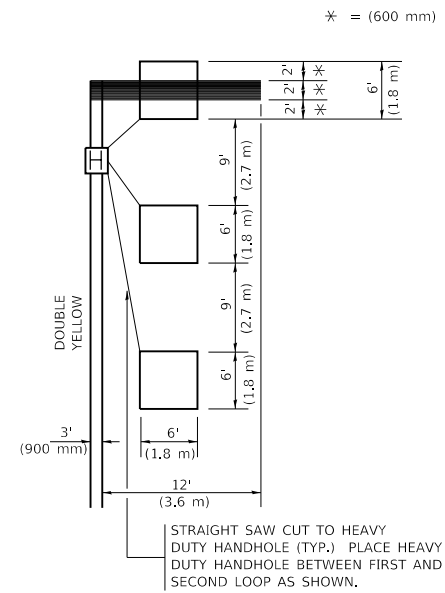


\* = (600 mm)

\*\* 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)**



\* = (600 mm)

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

**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 SEPARATLY. 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.

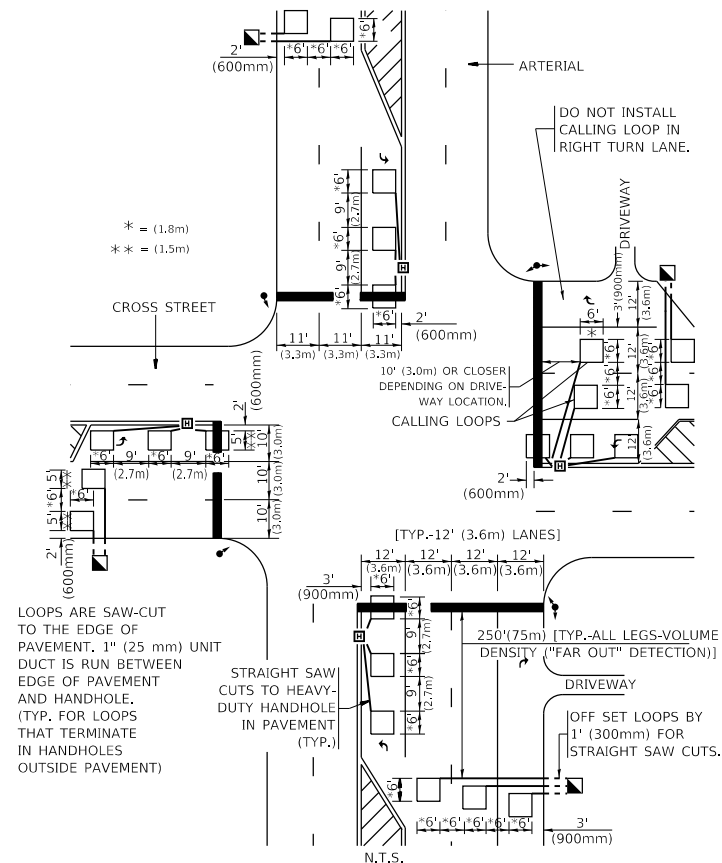
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

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



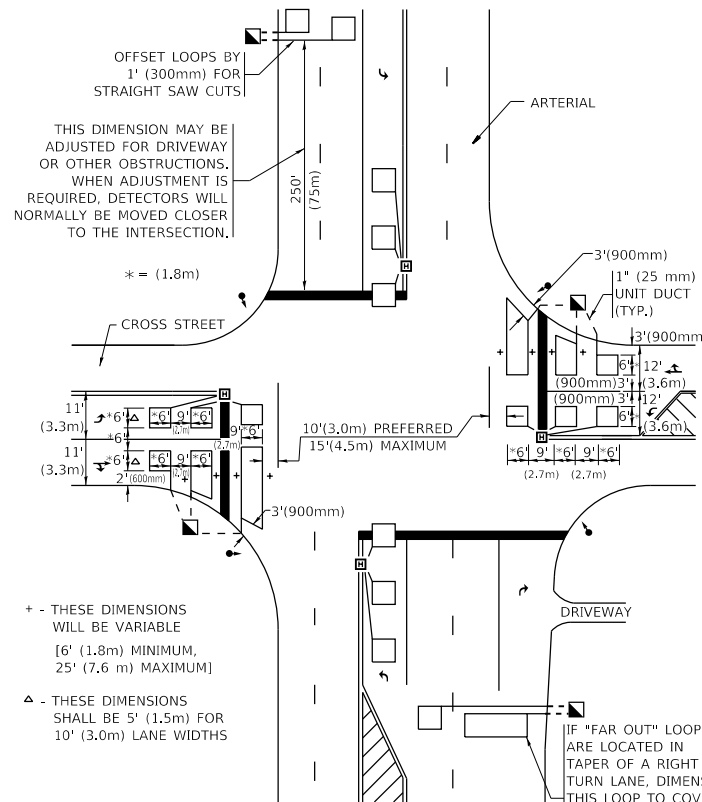
\* = (1.8m)  
 \*\* = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

**DETAIL 1**  
 N.T.S.

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



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]  
 Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

**DETAIL 2**  
 N.T.S.

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

**DISTRICT 1 - DETECTOR LOOP INSTALLATION**  
**DETAILS FOR ROADWAY RESURFACING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1576	2019-068-R5&SW	COOK	33	33
<b>TS-07</b>		CONTRACT NO. 62J55		

ILLINOIS FED. AID PROJECT