

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

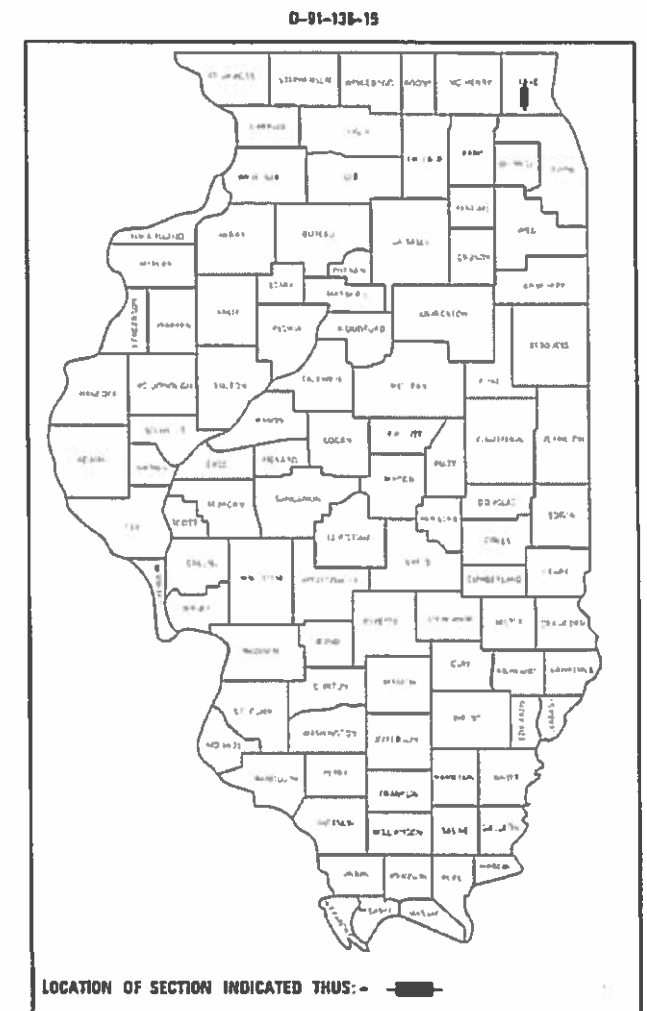
F.A.P. AVE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	1
CONTRACT NO. 62H92				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE  
VILLAGE OF MUNDELEIN

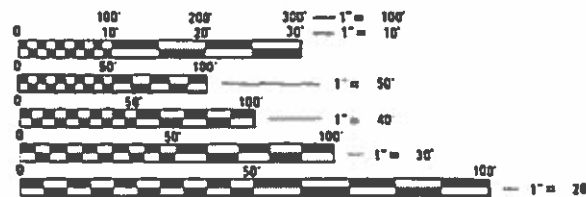
# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 344: US 45 (LAKE ST.)  
WOODLAWN DR. TO IL 83  
SECTION: 2019-015-R5  
PROJECT: NHPP-YSAL(570)  
DESIGNED OVERLAY / PEDESTRIAN RAMPS  
LAKE COUNTY  
C-91-340-19



### TRAFFIC DATA

2017 ADT = 26,700  
POSTED SPEED LIMIT = 35 MPH

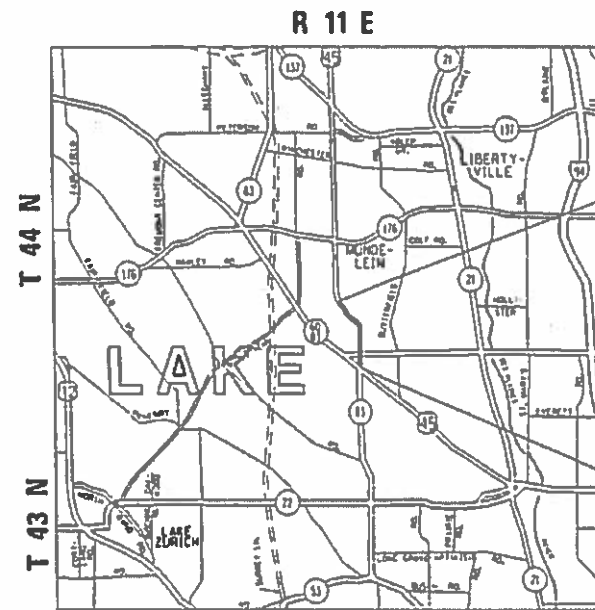


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

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

CONTRACT NO. 62H92



PROJECT ENDS  
STA. 111 + 23

OMISSION  
FROM STA. 32 + 70  
TO STA 35 + 13

PROJECT BEGINS  
STA. 15 + 86

VERNON TOWNSHIP

GROSS LENGTH = 9,537 FT. = 1.806 MILE  
NET LENGTH = 9,294 FT. = 1.760 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18, 2019  
Anthony A. Dangley / CR3  
REGIONAL ENGINEER

June 14, 2019  
Paul C. [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

June 14, 2019  
Paul C. [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS



SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
20200100	EARTH EXCAVATION	CU YD	54	54					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	300	300					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	6	6					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	6	6					
25200110	SODDING, SALT TOLERANT	SO YD	300	300					
25200200	SUPPLEMENTAL WATERING	UNIT	3	3					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	55	55					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	45780	45780					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	102	102					
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	7070	7070					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	396	396					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	6	6					
42001300	PROTECTIVE COAT	SO YD	260	260					
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	49	49					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	2335	2335					
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	83	83					
42400800	DETECTABLE WARNINGS	SO FT	390	390					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	7320	7320					
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SO YD	64271	64271					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	49	49					
44000600	SIDEWALK REMOVAL	SO FT	2335	2335					
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SO YD	611	611					
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SO YD	408	408					
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SO YD	340	340					
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	907	907					
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	604	604					
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	504	504					

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 45 - WOODLAWN DR TO IL 83  
SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-RS	LAKE	42	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H92	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	15	15				
60255410	CATCH BASINS TO BE CLEANED	EACH	45	45				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	12	12				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4	4				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	15	15				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	54	54				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1				
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	15	15				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	22560	22560				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	7520	7520				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1513.2	1513.2				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	30742	30742				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3688	3688				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	573	573				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1614	1614				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	795	795				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5600	5600				
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	12.5	12.5				

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 45 - WOODLAWN DR TO IL 83  
SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-RS	LAKE	42	4
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				

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

△ NON-PARTICIPATING

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1513.2	1513.2				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	30742	30742				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3688	3688				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	573	573				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1614	1614				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	795	795				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1381	1381				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1030	1030				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2261	2261				
* 89502376	REBUILD EXISTING HANDHOLE	EACH	4	4				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
X4060004	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80	TON	6299	6299				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1000	1000				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	56	56				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	17191	17191				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2000	2000				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	135	135				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	154.2	154.2				
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	37180	37180				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				

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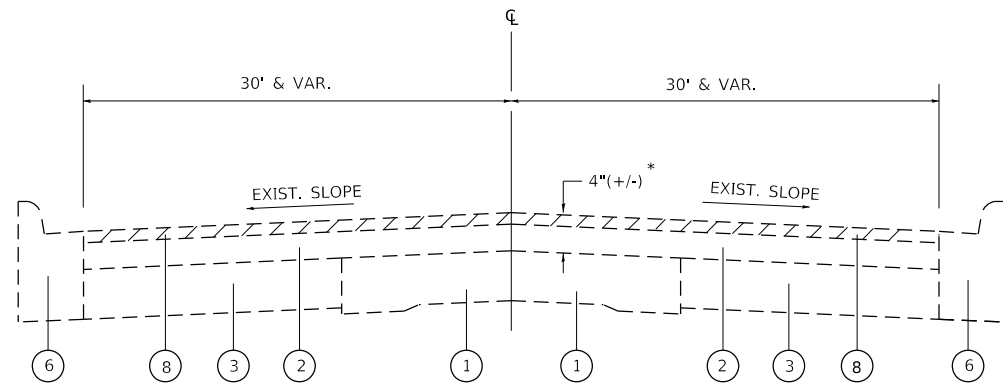
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 45 - WOODLAWN DR TO IL 83  
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-RS	LAKE	42	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H92	

\* SPECIALTY ITEMS      △ NON-PARTICIPATING ITEMS



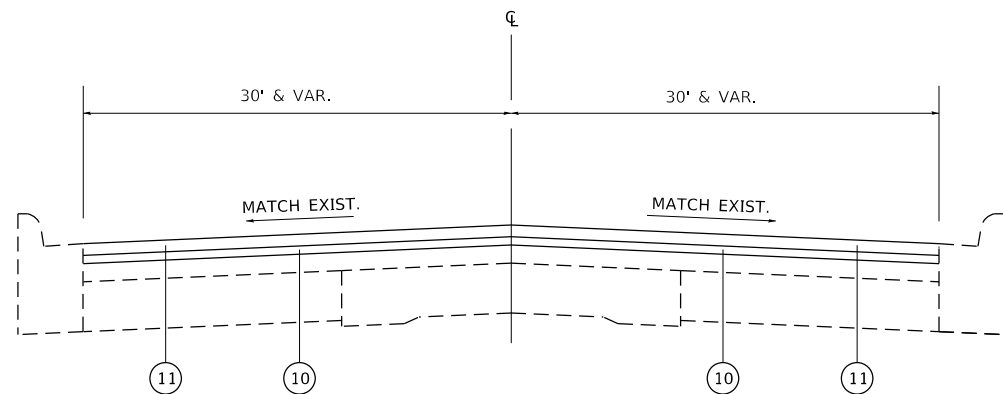
**EXISTING TYPICAL SECTION**

US 45  
STA. 15+86 TO STA. 38+36

**LEGEND**

- ① EXISTING P.C.C. BASE COURSE, 10" (+/-)
- ② EXISTING HMA SURFACE COURSE, 4" (+/-)
- ③ EXISTING HMA BASE COURSE WIDENING, 10" (+/-)
- ④ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 4"
- ⑤ EXISTING P.C.C. PAVEMENT, 10" (+/-)
- ⑥ EXISTING COMBINATION CONCRETE CURB & GUTTER
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2 "
- ⑧ PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- ⑨ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- ⑩ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 2"
- ⑪ PROPOSED POLYMERIZED HMA SURFACE COURSE, SMA, N80, 1 3/4 "

CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.



**PROPOSED TYPICAL SECTION**

US 45  
STA. 15+86 TO STA. 38+36

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, N80	3.5% @ 80 Gyr.	QCP
LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 Gyr.	QCP
CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE, 8"	4% @ 50 Gyr.	QC/QA
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	4% @ 50 Gyr.	QC/QA

QMP Designations: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)

**NOTES:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SY/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 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.

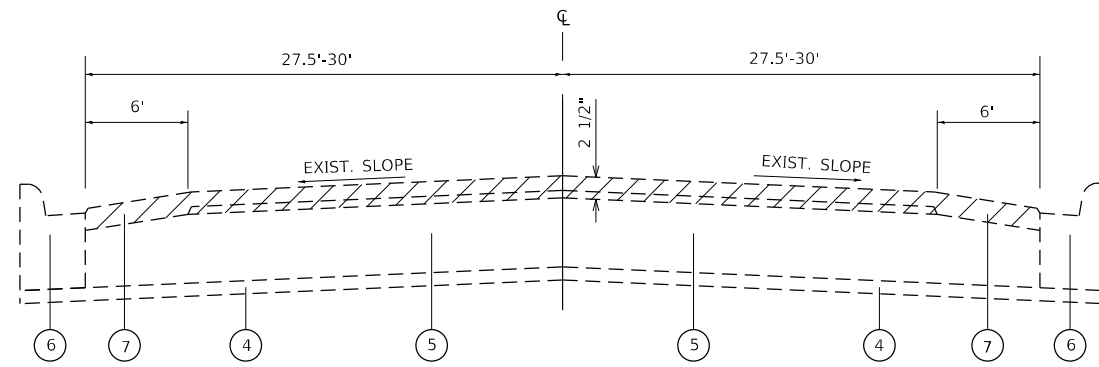
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

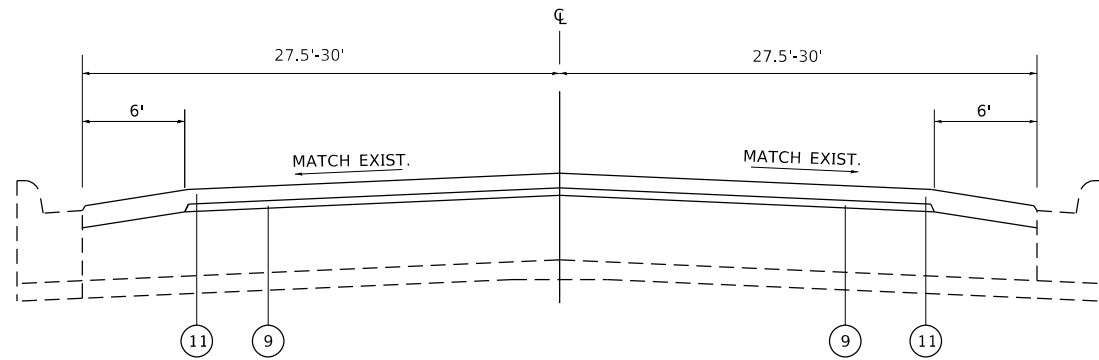
<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>			
<b>US 45 - WOODLAWN DR TO IL 83</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H92	



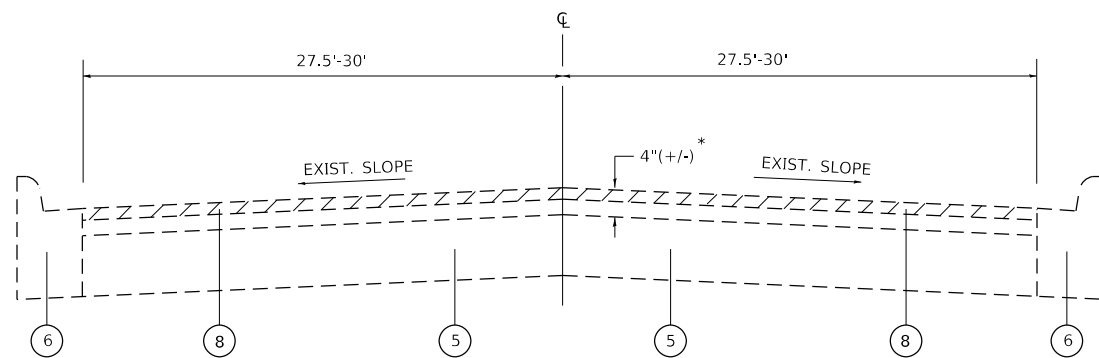
**EXISTING TYPICAL SECTION**

US 45  
STA. 43+33 TO STA. 54+31



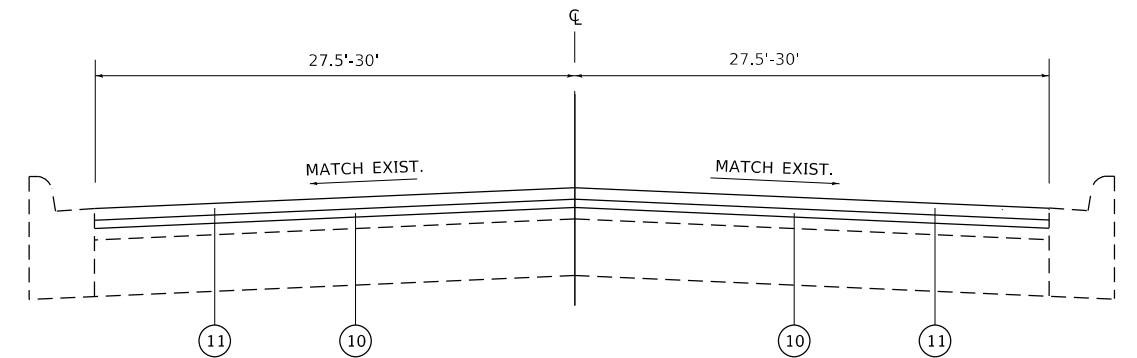
**PROPOSED TYPICAL SECTION**

US 45  
STA. 43+33 TO STA. 54+31



**EXISTING TYPICAL SECTION**

US 45  
STA. 38+36 TO STA. 43+33  
STA. 54+31 TO STA. 111+23



**PROPOSED TYPICAL SECTION**

US 45  
STA. 38+36 TO STA. 43+33  
STA. 54+31 TO STA. 111+23

**LEGEND**

- ① EXISTING P.C.C. BASE COURSE, 10" (+/-)
- ② EXISTING HMA SURFACE COURSE, 4" (+/-)
- ③ EXISTING HMA BASE COURSE WIDENING, 10" (+/-)
- ④ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A, 4"
- ⑤ EXISTING P.C.C. PAVEMENT, 10" (+/-)
- ⑥ EXISTING COMBINATION CONCRETE CURB & GUTTER
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑧ PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- ⑨ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- ⑩ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 2"
- ⑪ PROPOSED POLYMERIZED HMA SURFACE COURSE, SMA, N80, 1 3/4 "

CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS  
US 45 - WOODLAWN DR TO IL 83**

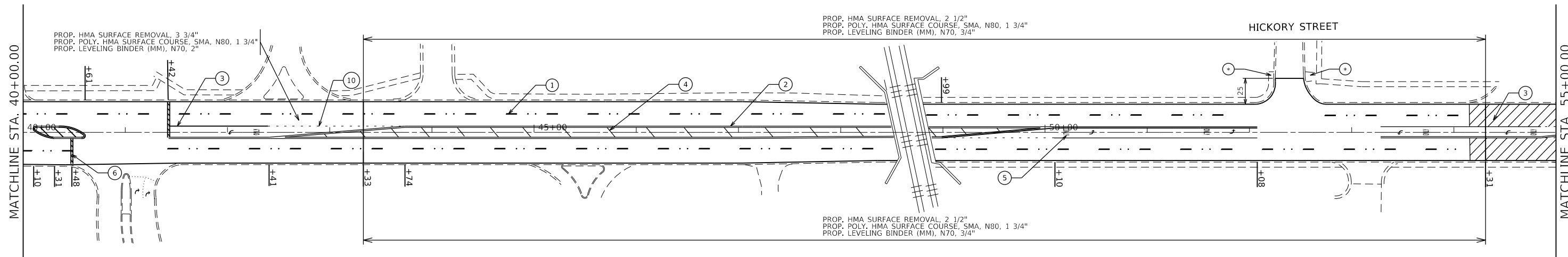
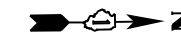
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	7
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				



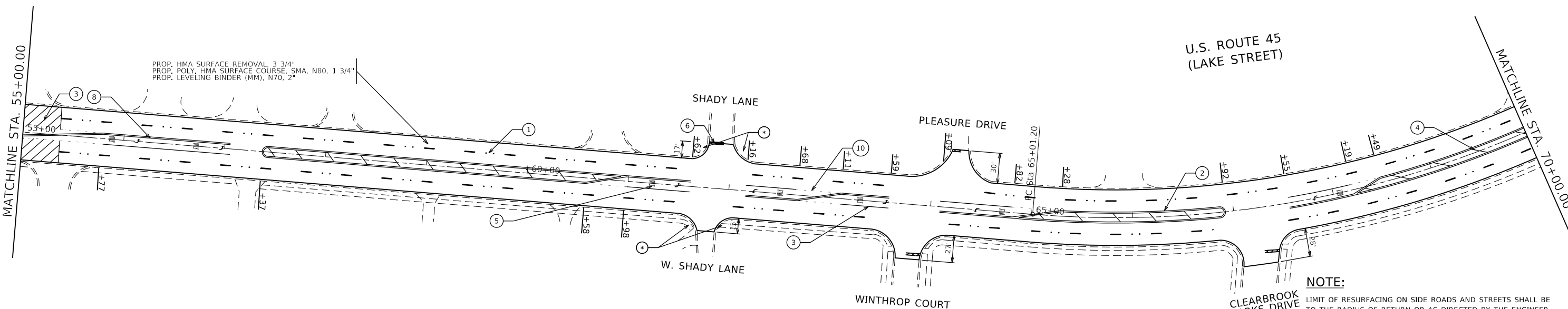
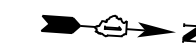


U.S. ROUTE 45  
(LAKE STREET)



**LEGEND:**

- |  |   |  |
|--|---|--|
| ① PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", SKIP DASH @ 30' SKIP AND 10' DASH, WHITE (TYP.) | ⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)                             | ⑨ PROPOSED THERMOPLASTIC PAVEMENT MARKING LEFT ARROW IN PAIRS, WHITE (TYP.)                          |
| ② PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE LINE @ 11" C-C, YELLOW (TYP.)            | ⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP LINE, WHITE (TYP.)                             | ⑩ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", DOTTED LINES @ 2' LINE AND 6' SPACE, WHITE (TYP.) |
| ③ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE, WHITE (TYP.)                         | ⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 8", WHITE (TYP.)   | ⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSSWALK LINES, WHITE (TYP.)                     |
| ④ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", DIAGONALS @ 45°, YELLOW (TYP.)                 | ⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", SOLID AND SKIP DASH LINES (5 1/2 C-C), YELLOW (TYP.) | ⑫ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", LONGITUDINAL BARS (SCHOOL), WHITE (TYP.)         |



**NOTE:**  
LIMIT OF RESURFACING ON SIDE ROADS AND STREETS SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13). RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGH THE IMPROVEMENT LIMITS. SEE "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS" DETAIL (TC-11).

\* ADA RAMP IMPROVEMENTS

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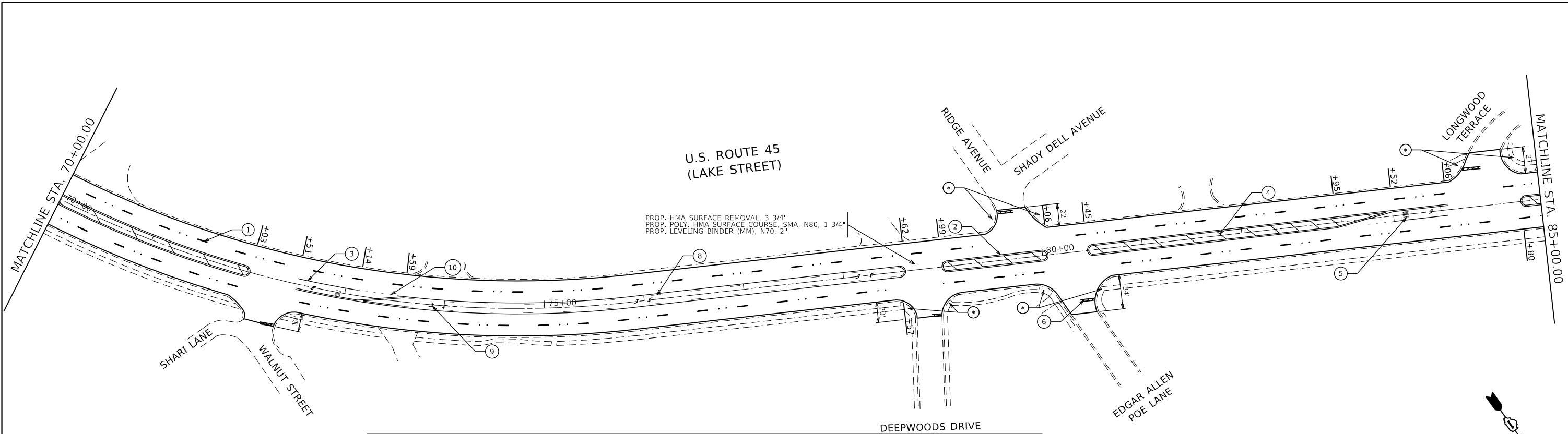
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN  
US 45 - WOODLAWN DR TO IL 83

SCALE: SHEET OF SHEETS STA. TO STA.

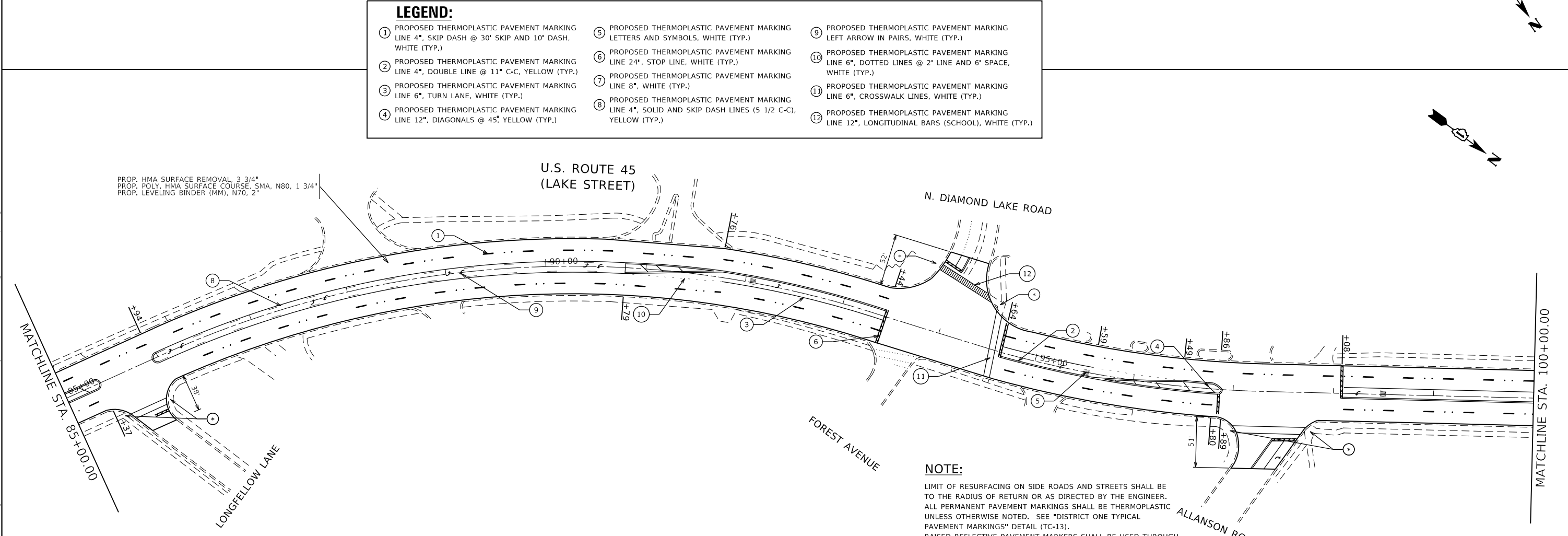
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CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				

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**LEGEND:**

① PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", SKIP DASH @ 30' SKIP AND 10' DASH, WHITE (TYP.)	⑤ PROPOSED THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)	⑨ PROPOSED THERMOPLASTIC PAVEMENT MARKING LEFT ARROW IN PAIRS, WHITE (TYP.)
② PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", DOUBLE LINE @ 11" C-C, YELLOW (TYP.)	⑥ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 24", STOP LINE, WHITE (TYP.)	⑩ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", DOTTED LINES @ 2' LINE AND 6' SPACE, WHITE (TYP.)
③ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", TURN LANE, WHITE (TYP.)	⑦ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 8", WHITE (TYP.)	⑪ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 6", CROSSWALK LINES, WHITE (TYP.)
④ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", DIAGONALS @ 45°, YELLOW (TYP.)	⑧ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 4", SOLID AND SKIP DASH LINES (5 1/2 C-C), YELLOW (TYP.)	⑫ PROPOSED THERMOPLASTIC PAVEMENT MARKING LINE 12", LONGITUDINAL BARS (SCHOOL), WHITE (TYP.)



\* ADA RAMP IMPROVEMENTS

**NOTE:**  
 LIMIT OF RESURFACING ON SIDE ROADS AND STREETS SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. SEE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL (TC-13). RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGH THE IMPROVEMENT LIMITS. SEE "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS" DETAIL (TC-11).

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USER NAME = rothjp	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/28/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

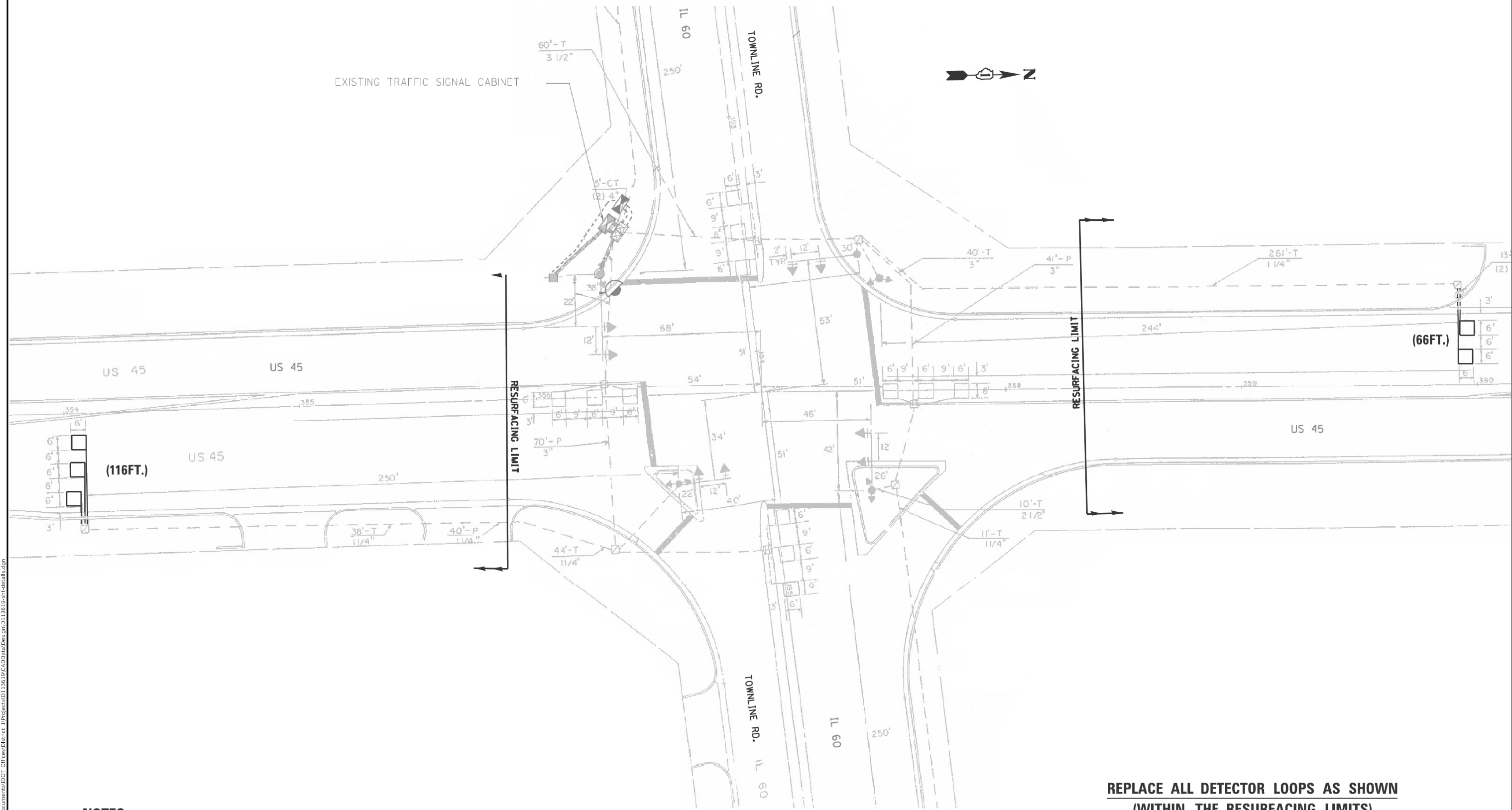
<b>ROADWAY PLAN</b>			
<b>US 45 - WOODLAWN DR TO IL 83</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	10
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				





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 DATE: 5/28/2019



**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	182	FOOT

USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOPS - REMOVE AND REPLACEMENT  
US 45 - WOODLAWN DR TO IL 83**

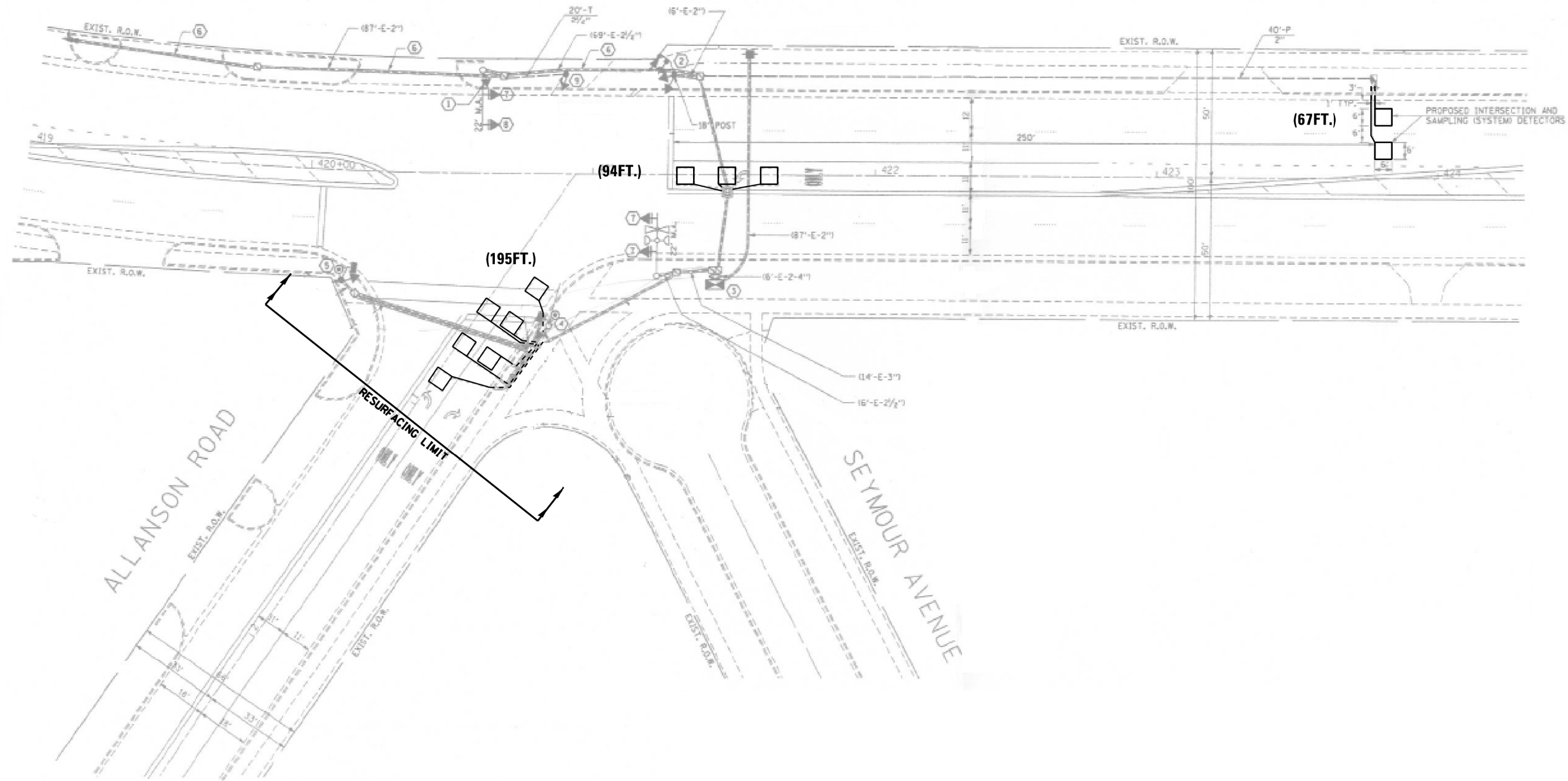
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2019-015-R5	COUNTY LAKE	TOTAL SHEETS 42	SHEET NO. 13
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				





# U.S. ROUTE 45 (LAKE ST.)



**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	356	FOOT

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOPS - REMOVE AND REPLACEMENT  
US 45 - WOODLAWN DR TO IL 83**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	16
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				







SHADY LANE

CONC S.W.

SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN

SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN



W.

SHADY LANE

REFERENCE BENCHMARK ELEV 731.593  
BENCHMARK : R/R SPIKE IN POWER POLE  
LOCATION : EAST SIDE OF US 45 100 FT SOUTH OF SHADY LANE

**LEGEND**



EXISTING LENGTH



PROPOSED SIDE CURB



EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 731.593  
BENCHMARK : R/R SPIKE IN POWER POLE  
LOCATION : EAST SIDE OF US 45 100 FT SOUTH OF SHADY LANE

MODEL: Default  
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USER NAME = rothjp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/29/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

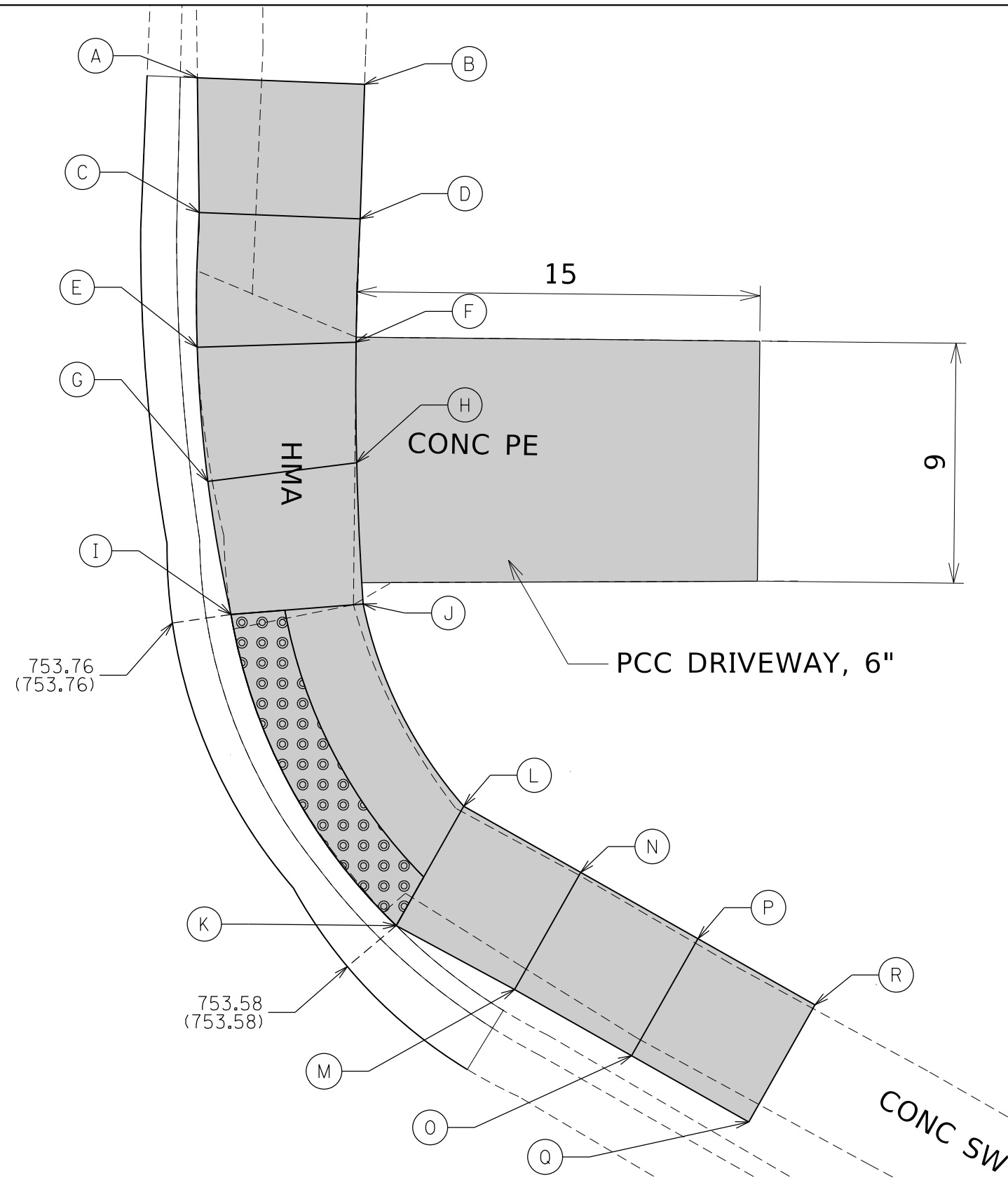
**SIDEWALK DETAIL PLAN  
US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	19
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				



EDGAR ALLEN POE LANE



POINT	EX. ELEV.	PR. ELEV.
A	(754.45)	754.45
B	(754.68)	754.68
C	(754.33)	754.30
D	(754.62)	754.42
E	(754.15)	754.12
F	(754.58)	754.22
G	(753.97)	753.94
H	(754.53)	754.03
I	(753.95)	753.76
J	(754.49)	753.81
K	(753.89)	753.58
L	(754.27)	753.66
M	(754.03)	753.80
N	(754.30)	753.89
O	(754.07)	754.02
P	(754.34)	754.12
Q	(754.24)	754.24
R	(754.35)	754.35

SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	6.22	3.69
C-D	5.99	1.95
E-F	5.90	1.73
G-H	5.58	1.65
I-J	4.93	1.00
K-L	5.10	1.50
M-N	5.00	1.76
O-P	5.00	1.99
Q-R	5.00	2.22
A-C	5.01	2.95
C-E	5.01	3.60
E-G	5.01	3.60
G-I	5.02	3.60
I-K	3.32	1.33
K-M	5.00	4.37
M-O	5.00	4.37
O-Q	5.00	4.37
B-D	5.00	5.20
D-F	4.59	4.25
F-H	4.48	4.25
H-J	5.26	4.25
J-L	8.49	1.76
L-N	5.00	4.60
N-P	5.00	4.60
P-R	5.00	4.60



REFERENCE BENCHMARK ELEV 753.503  
 BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
 LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

**LEGEND**

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

REFERENCE BENCHMARK ELEV 753.503  
 BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
 LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

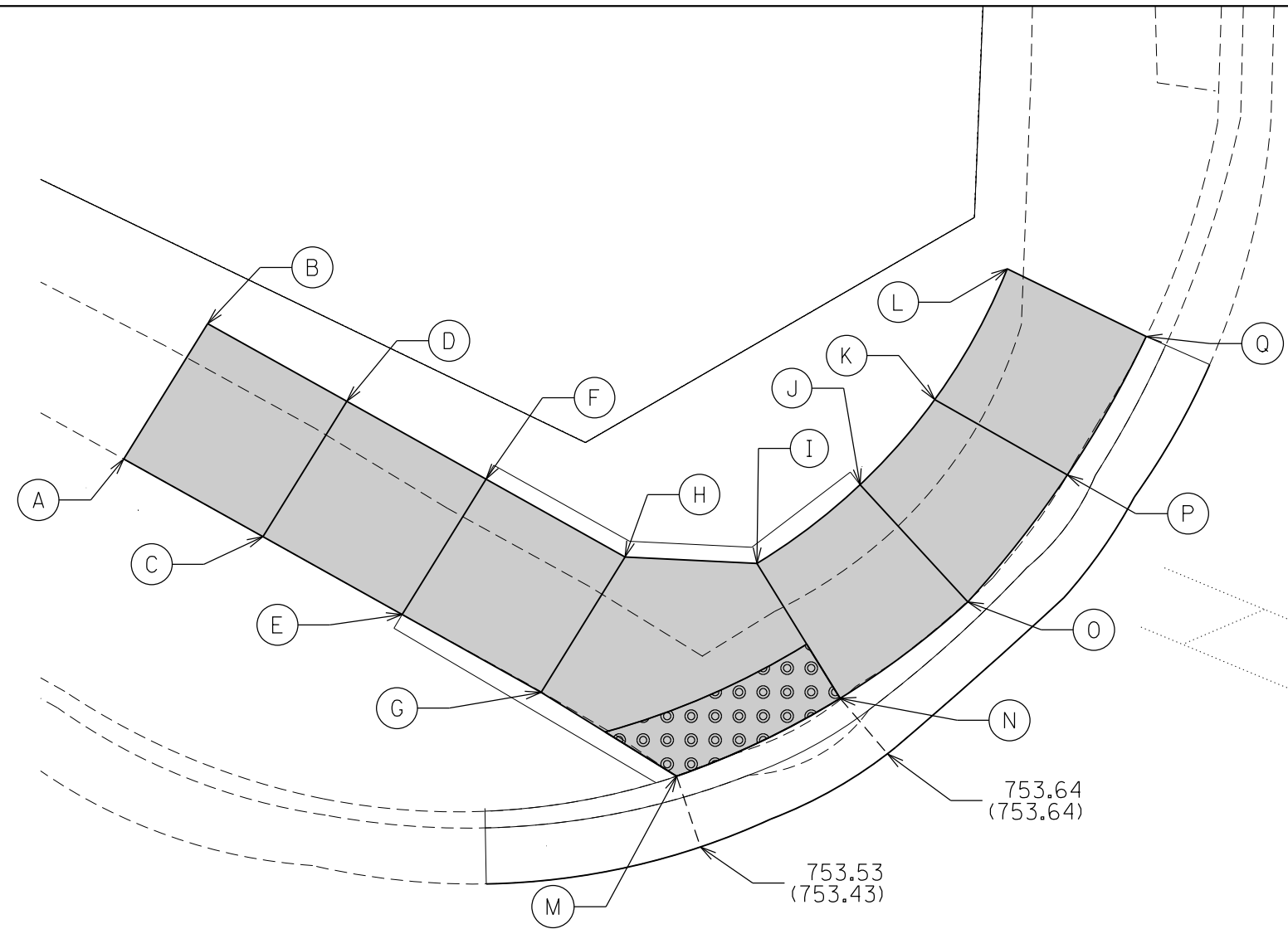
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 – WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	21
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				

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SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	5.00	4.55
C-D	5.00	1.50
E-F	5.00	1.50
G-H	5.00	1.50
H-I	4.14	0.75
I-J	4.08	6.33
J-K	3.56	6.33
K-L	4.70	6.33
M-N	5.70	1.87
N-O	5.03	5.00
O-P	5.07	5.00
P-Q	5.00	5.00
A-C	5.01	1.27
C-E	5.01	2.75
E-G	5.00	2.75
G-M	5.00	1.50
B-D	5.01	4.32
D-F	5.01	2.75
F-H	5.00	2.75
I-N	4.98	1.50
J-O	5.00	1.63
K-P	4.79	1.12
L-Q	4.86	2.09

POINT	EX. ELEV.	PR. ELEV.
A	(753.94)	753.94
B	(754.17)	754.17
C	(753.95)	753.88
D	(754.15)	753.95
E	(753.95)	753.74
F	(754.16)	753.82
G	(753.90)	753.60
H	(754.08)	753.68
I	(754.07)	753.71
J	(754.22)	753.97
K	(754.33)	754.19
L	(754.49)	754.49
M	(754.78)	753.53
N	(753.63)	753.63
O	(754.01)	753.89
P	(754.04)	754.14
Q	(754.39)	754.39

EDGAR ALLEN POE LANE

REFERENCE BENCHMARK ELEV 753.503  
 BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
 LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

**LEGEND**

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

REFERENCE BENCHMARK ELEV 753.503  
 BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
 LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

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PLOT DATE = 5/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

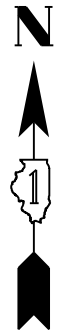
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	22
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				



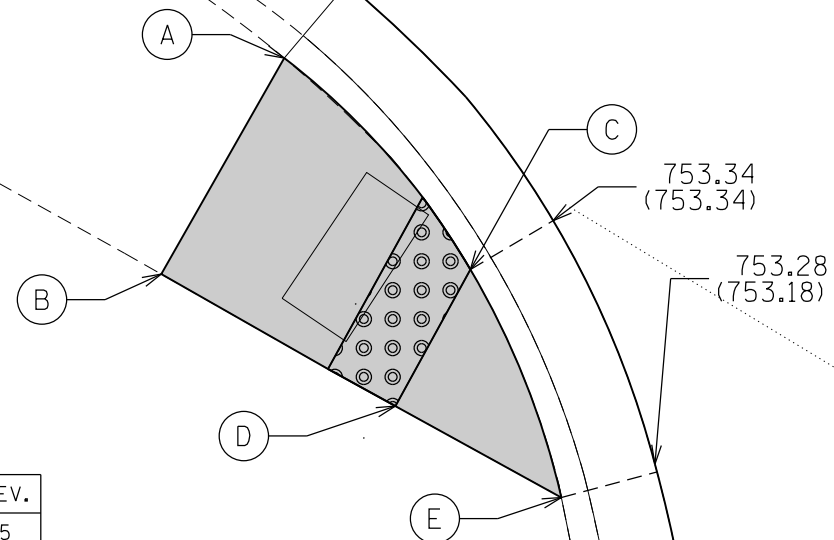
RIDGE AVENUE

SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN

GRASS



RIDGE AVENUE



POINT	EX. ELEV.	PR. ELEV.
A	(753.75)	753.75
B	(753.50)	753.50
C	(753.34)	753.34
D	(753.34)	753.35
E	(753.18)	753.28

SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	6.47	3.87
C-D	4.05	0.35
A-C	7.39	5.54
C-E	6.41	0.94
B-D	7.00	2.07
D-E	4.94	1.50

**LEGEND**



EXISTING LENGTH



PROPOSED SIDE CURB



EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 753.498  
BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

REFERENCE BENCHMARK ELEV 753.498  
BENCHMARK : NORTH BOLT ON FIRE HYDRANT  
LOCATION : S.E. CORNER OF US 45 & RIDGE AVENUE

USER NAME = rothjp	DESIGNED -	REVISED -
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PLOT DATE = 5/29/2019	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	23
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				

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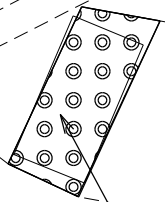


LONGWOOD TERRACE

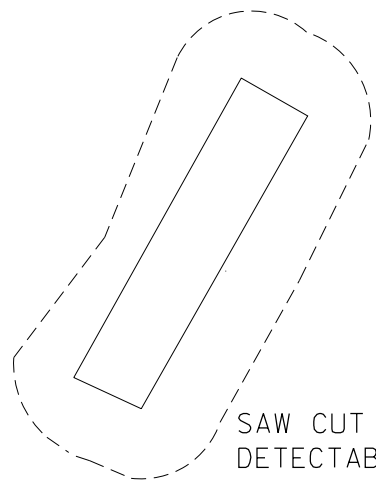
CONC S.W.

S.W.

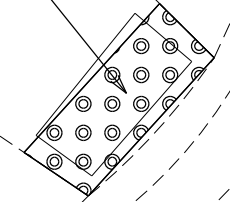
LONGWOOD TERRACE



SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN



SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN



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REFERENCE BENCHMARK ELEV 750.799  
BENCHMARK : SQUARE ON LIGHT POLE  
LOCATION : S.W. CORNER OF US 45 & LONGWOOD TERRACE

**LEGEND**



EXISTING LENGTH



PROPOSED SIDE CURB



EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 750.799  
BENCHMARK : SQUARE ON LIGHT POLE  
LOCATION : S.W. CORNER OF US 45 & LONGWOOD TERRACE

USER NAME = rothjp	DESIGNED -	REVISED -
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PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

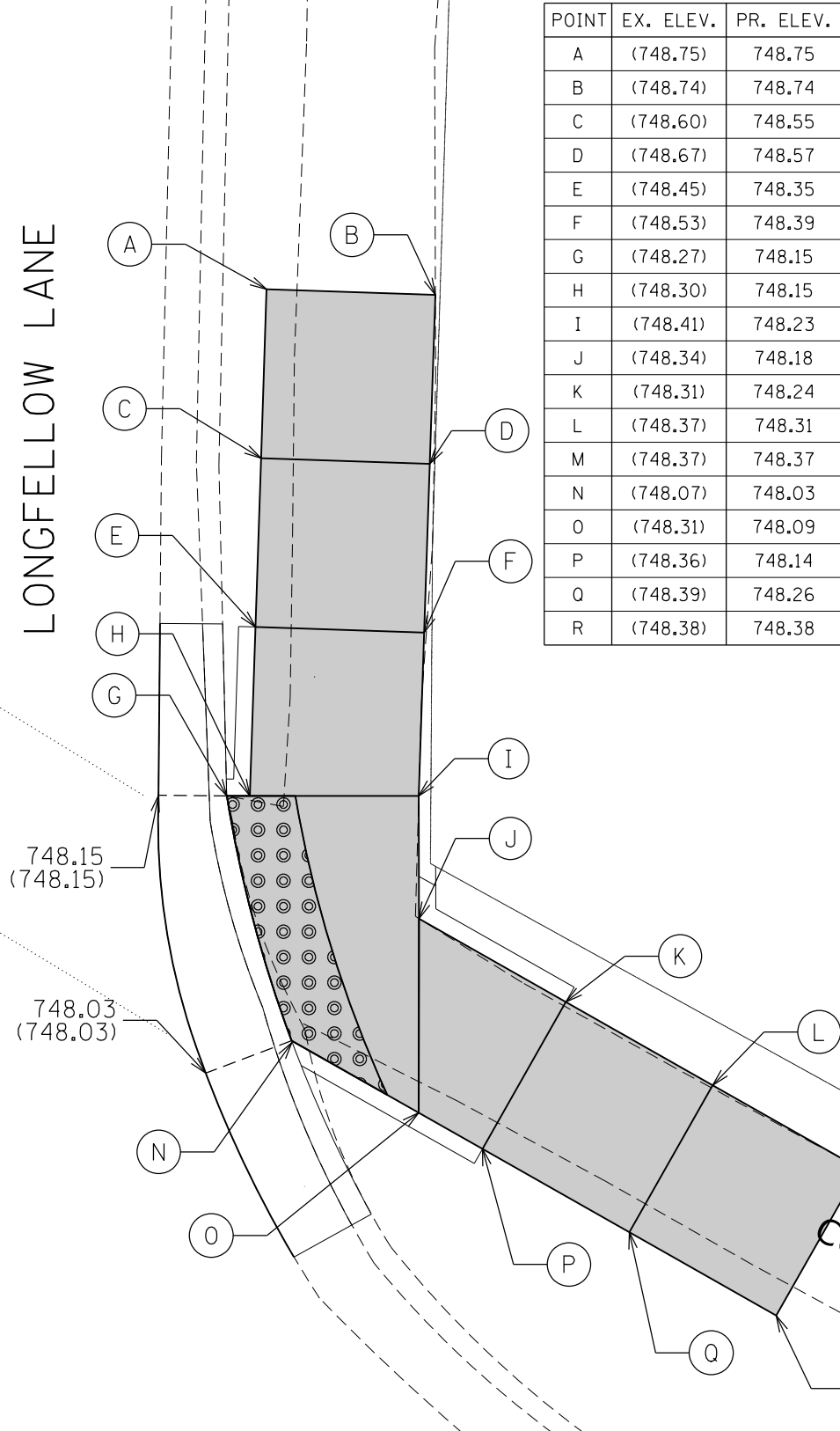
**SIDEWALK DETAIL PLAN  
US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H92	



LONGFELLOW LANE



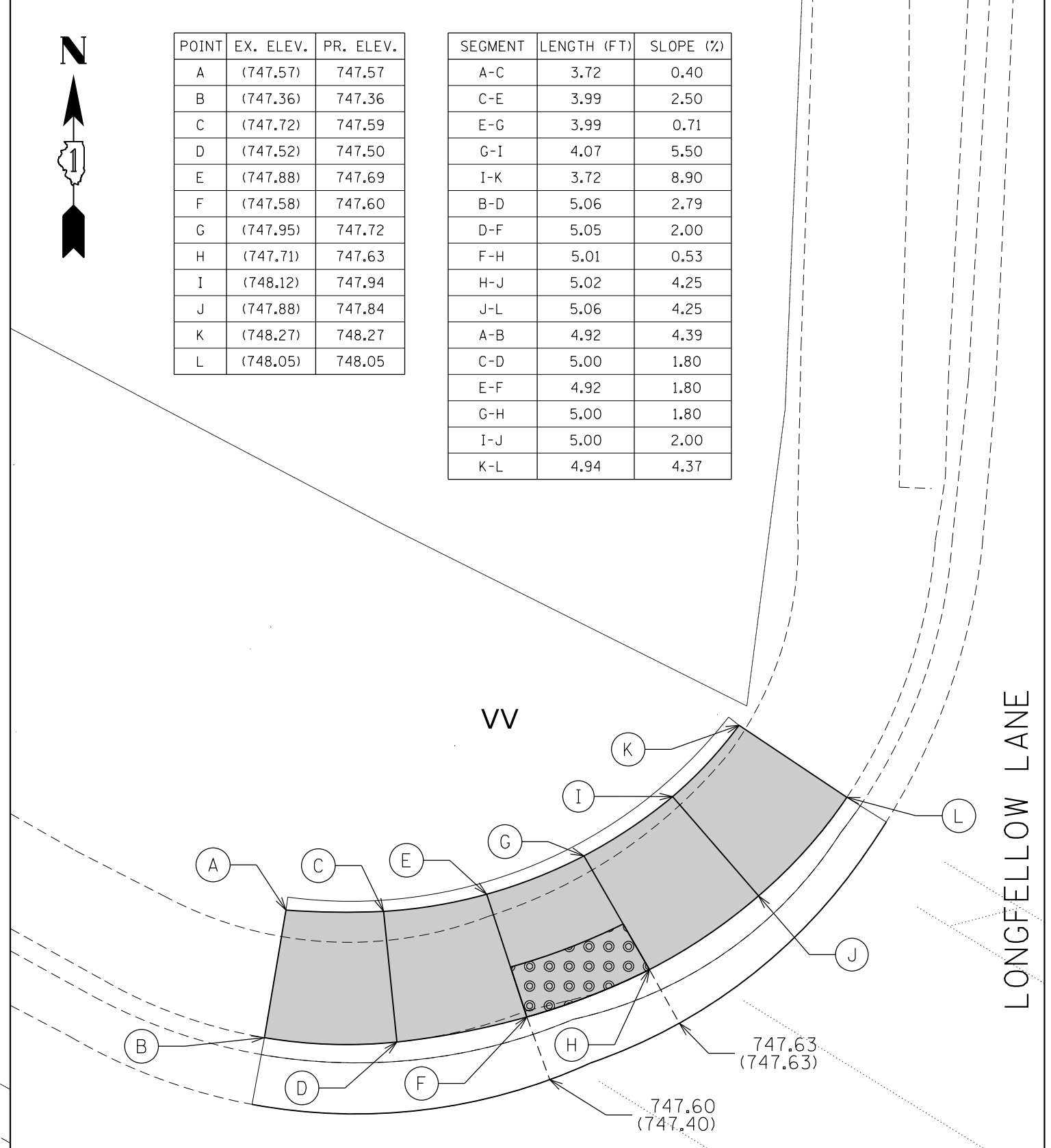
POINT	EX. ELEV.	PR. ELEV.
A	(748.75)	748.75
B	(748.74)	748.74
C	(748.60)	748.55
D	(748.67)	748.57
E	(748.45)	748.35
F	(748.53)	748.39
G	(748.27)	748.15
H	(748.30)	748.15
I	(748.41)	748.23
J	(748.34)	748.18
K	(748.31)	748.24
L	(748.37)	748.31
M	(748.37)	748.37
N	(748.07)	748.03
O	(748.31)	748.09
P	(748.36)	748.14
Q	(748.39)	748.26
R	(748.38)	748.38

SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	5.00	0.29
C-D	5.00	0.27
E-F	5.00	0.83
G-H	0.68	0.00
H-I	5.00	1.50
I-J	3.63	1.41
J-K	5.00	1.32
K-L	5.00	1.32
L-M	5.00	1.32
N-O	4.32	1.50
O-P	2.17	2.40
P-Q	5.00	2.40
Q-R	5.00	2.40
A-C	5.00	4.00
C-E	5.00	4.00
E-H	5.00	4.00
B-D	5.00	3.44
D-F	5.00	3.44
F-I	4.84	3.44
G-N	7.51	1.69
J-O	5.75	1.50
K-P	5.00	2.00
L-Q	5.00	0.92
M-R	5.00	0.15



POINT	EX. ELEV.	PR. ELEV.
A	(747.57)	747.57
B	(747.36)	747.36
C	(747.72)	747.59
D	(747.52)	747.50
E	(747.88)	747.69
F	(747.58)	747.60
G	(747.95)	747.72
H	(747.71)	747.63
I	(748.12)	747.94
J	(747.88)	747.84
K	(748.27)	748.27
L	(748.05)	748.05

SEGMENT	LENGTH (FT)	SLOPE (%)
A-C	3.72	0.40
C-E	3.99	2.50
E-G	3.99	0.71
G-I	4.07	5.50
I-K	3.72	8.90
B-D	5.06	2.79
D-F	5.05	2.00
F-H	5.01	0.53
H-J	5.02	4.25
J-L	5.06	4.25
A-B	4.92	4.39
C-D	5.00	1.80
E-F	4.92	1.80
G-H	5.00	1.80
I-J	5.00	2.00
K-L	4.94	4.37



**LEGEND**

xx.xx'

EXISTING LENGTH

==

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 750.801

BENCHMARK : SQUARE ON LIGHT POLE BASE

LOCATION : S.W. CORNER OF US 45 & LONGWOOD TERRACE

REFERENCE BENCHMARK ELEV 750.801

BENCHMARK : SQUARE ON LIGHT POLE BASE

LOCATION : S.W. CORNER OF US 45 & LONGWOOD TERRACE

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	DRAWN -	REVISD -
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PLOT DATE = 5/29/2019	DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

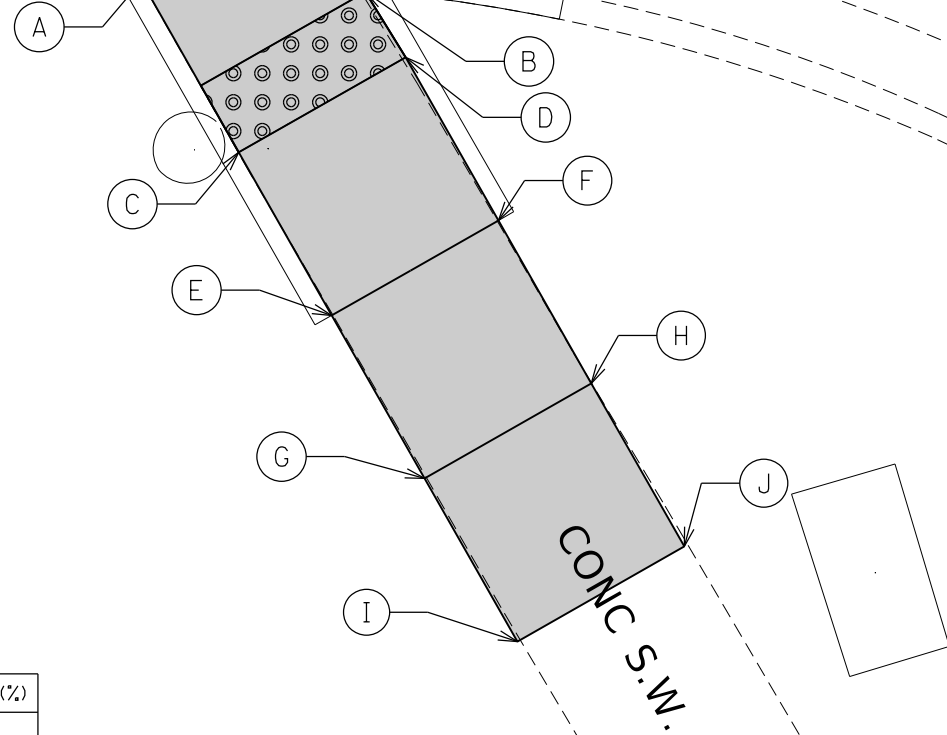
SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 2019-015-R5	COUNTY LAKE	TOTAL SHEETS 45	SHEET NO. 25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H92	

N DIAMOND LAKE ROAD



748.30  
(748.30)      748.31  
(748.31)



SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	5.84	0.27
C-D	5.00	0.62
E-F	5.00	0.48
G-H	5.00	0.34
I-J	5.00	0.20
A-C	5.13	1.50
C-E	4.89	8.80
E-G	4.89	8.80
G-I	4.89	8.80
B-D	2.00	1.50
D-F	4.89	8.95
F-H	4.89	8.95
H-J	4.89	8.95

POINT	EX. ELEV.	PR. ELEV.
A	(748.50)	748.30
B	(748.54)	748.31
C	(749.12)	748.37
D	(748.87)	748.34
E	(749.42)	748.80
F	(749.28)	748.78
G	(749.53)	749.23
H	(749.48)	749.22
I	(749.66)	749.66
J	(749.65)	749.65

S.W.

SAW CUT AND REPLACE  
DETECTABLE WARNING AS SHOWN

N DIAMOND LAKE ROAD



REFERENCE BENCHMARK ELEV 749.643  
BENCHMARK : SQUARE ON TRAFFIC CONTROL BOX  
LOCATION : S.W. CORNER OF US 45 & DIAMOND LAKE ROAD

**LEGEND**

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

REFERENCE BENCHMARK ELEV 749.643  
BENCHMARK : SQUARE ON TRAFFIC CONTROL BOX  
LOCATION : S.W. CORNER OF US 45 & DIAMOND LAKE ROAD

MODEL: Default  
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PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**

SCALE: 1"=20'      SHEET 1 OF 16 SHEETS      STA.      TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	26
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				



ALLANSON ROAD

749.22  
(749.02)

749.25  
(749.25)

HMA

CONC

HMA  
PARKING  
LOT

POINT	EX. ELEV.	PR. ELEV.
A	(749.56)	749.56
B	(749.74)	749.74
C	(749.51)	749.44
D	(749.91)	749.53
E	(749.33)	749.22
F	(749.85)	749.29
G	(749.67)	749.25
H	(750.01)	749.33
I	(749.70)	749.56
J	(750.17)	749.66
K	(749.87)	749.87
L	(749.99)	749.99

SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	5.00	3.74
C-D	4.97	1.83
E-F	5.00	1.50
G-H	5.05	1.50
I-J	5.00	1.92
K-L	5.00	2.40
A-C	5.05	2.24
C-E	5.01	4.50
E-G	7.45	0.51
G-I	5.03	6.09
I-K	5.02	.09
B-D	3.91	5.34
D-F	4.52	5.34
F-H	5.68	0.69
H-J	4.15	7.87
J-L	4.19	7.87

**LEGEND**

xx.xx'

EXISTING LENGTH

====

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL  
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 749.865

BENCHMARK : X-CUT ON NORTH BOLT ON FIRE HYDRANT

LOCATION : N.W. CORNER OF US 45 & ALLANSON ROAD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

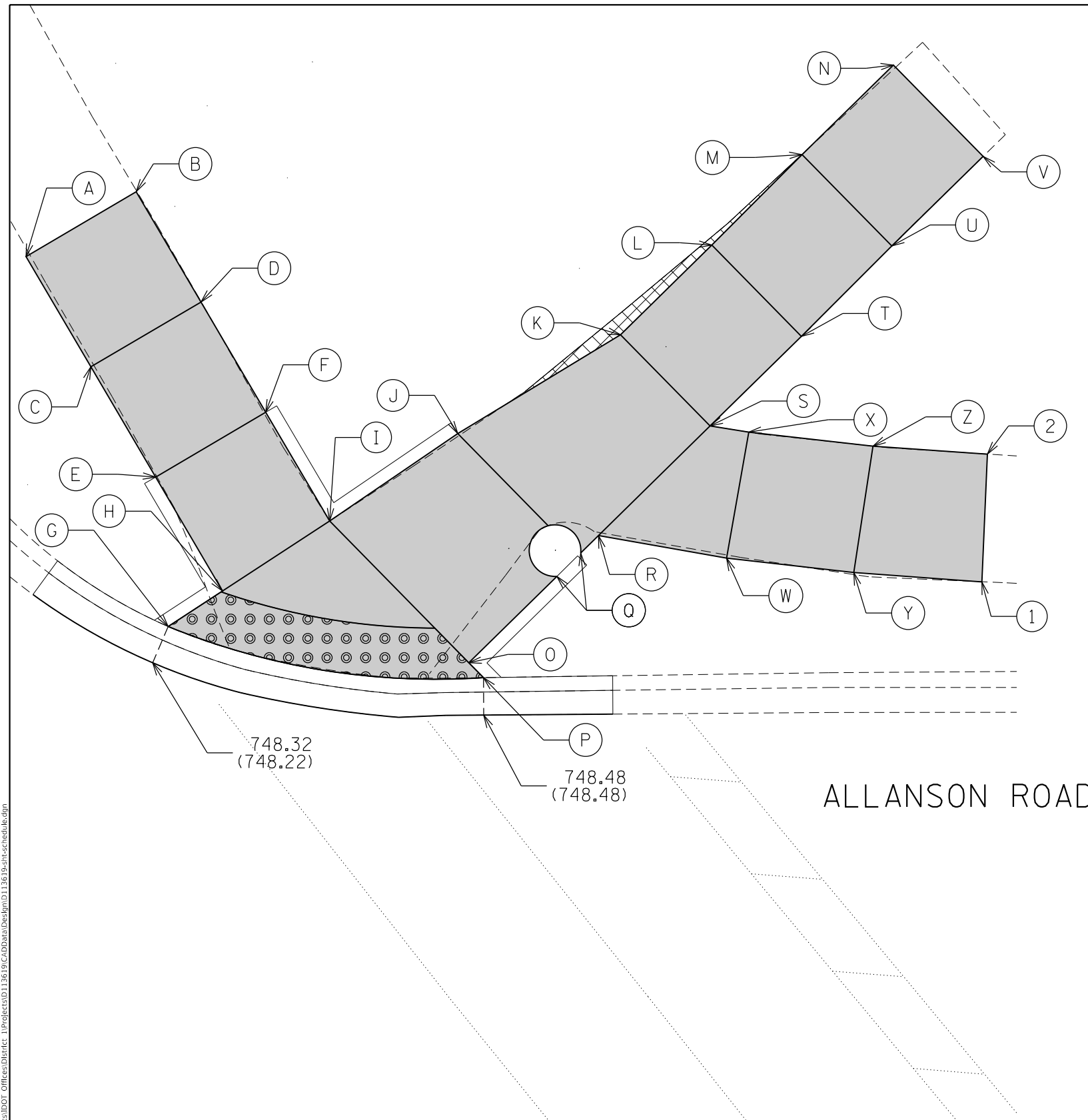
SIDEWALK DETAIL PLAN  
US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83

SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	27
				CONTRACT NO. 62H92
ILLINOIS FED. AID PROJECT				

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POINT	EX. ELEV.	PR. ELEV.
A	(748.67)	748.67
B	(748.79)	748.79
C	(748.63)	748.56
D	(748.77)	748.66
E	(748.67)	748.45
F	(748.82)	748.52
G	(748.66)	748.32
H	(748.45)	748.34
I	(748.79)	748.39
J	(749.00)	748.69
K	(749.13)	748.81
L	(749.03)	748.96
M	(749.06)	749.11
N	(749.15)	749.15
O	(748.88)	748.48
P	(748.87)	748.48
Q	(749.04)	748.77
R	(749.06)	748.79
S	(749.21)	748.88
T	(749.16)	749.03
U	(749.22)	749.18
V	(749.33)	749.33
W	(749.10)	748.92
X	(749.22)	748.94
Y	(749.11)	749.05
Z	(749.26)	749.14
1	(749.18)	749.18
2	(749.31)	749.31

SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	5.00	2.41
C-D	5.00	1.90
E-F	5.00	1.40
G-H	2.54	1.00
H-I	5.00	1.00
I-J	6.06	5.00
J-K	7.45	1.50
K-L	5.00	3.00
L-M	5.00	3.00
M-N	5.00	0.95
O-O	5.97	5.00
O-R	1.14	1.50
R-S	6.12	1.50
S-T	5.00	2.97
T-U	5.00	2.97
U-V	5.00	2.97
W-X	5.00	0.41
Y-Z	5.00	1.68
1-2	5.00	2.62
G-P	12.60	1.33
A-C	5.00	2.17
C-E	5.00	2.17
E-H	5.17	2.17
B-D	5.00	2.67
D-F	5.00	2.67
F-I	4.93	2.67
I-O	7.77	1.08
O-P	0.82	1.08
J-Q	6.70	1.18
K-S	5.00	1.52
L-T	5.00	1.49
M-U	5.00	1.46
N-V	5.00	3.49
R-W	5.09	2.59
W-Y	5.01	2.59
Y-1	5.02	2.59
S-X	1.53	3.95
X-Z	4.89	3.95
Z-2	4.48	3.95

REFERENCE BENCHMARK ELEV 749.865  
 BENCHMARK : X-CUT ON NORTH BOLT ON FIRE HYDRANT  
 LOCATION : N.W. CORNER OF US 45 & ALLANSON ROAD

**LEGEND**

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

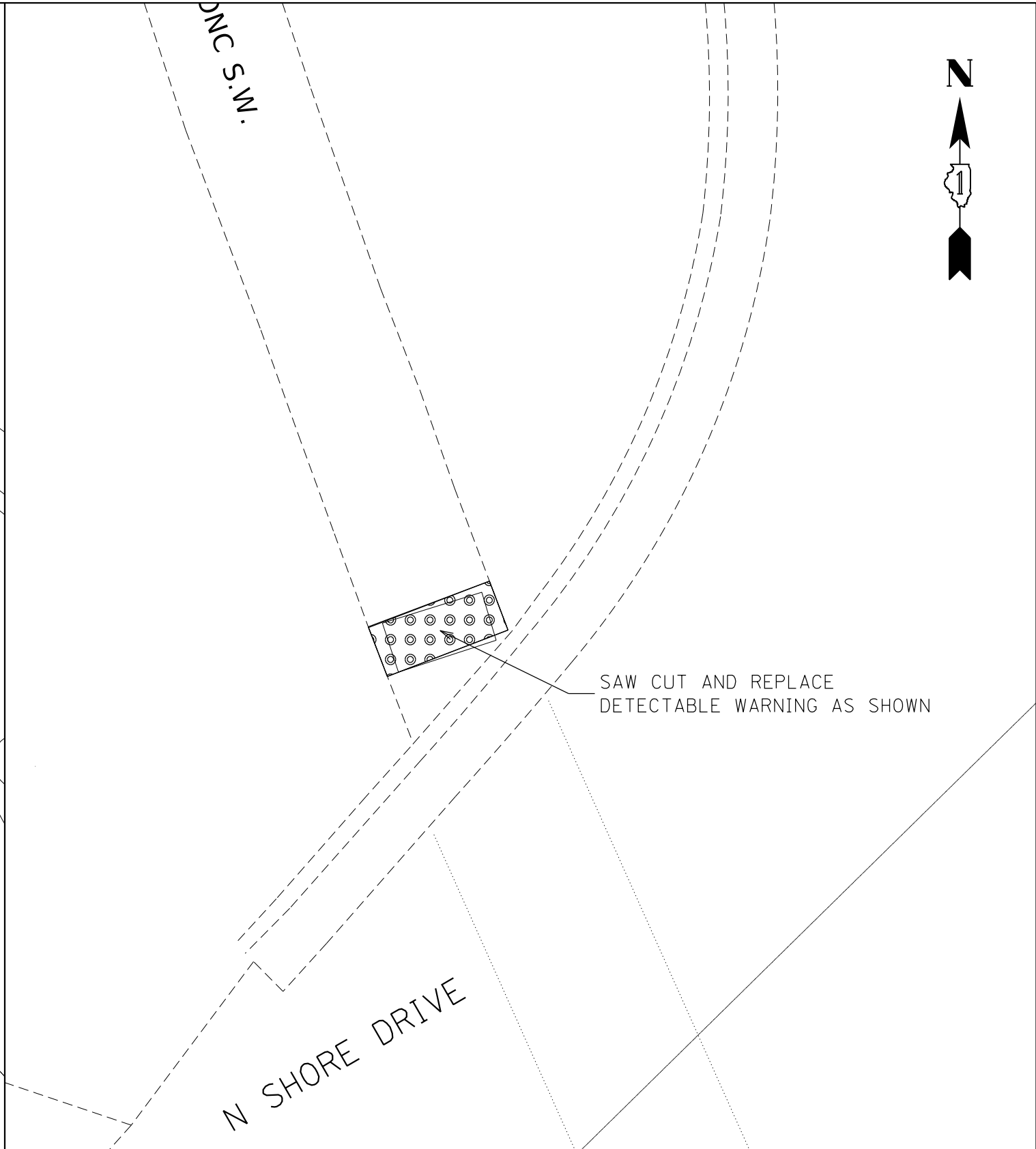
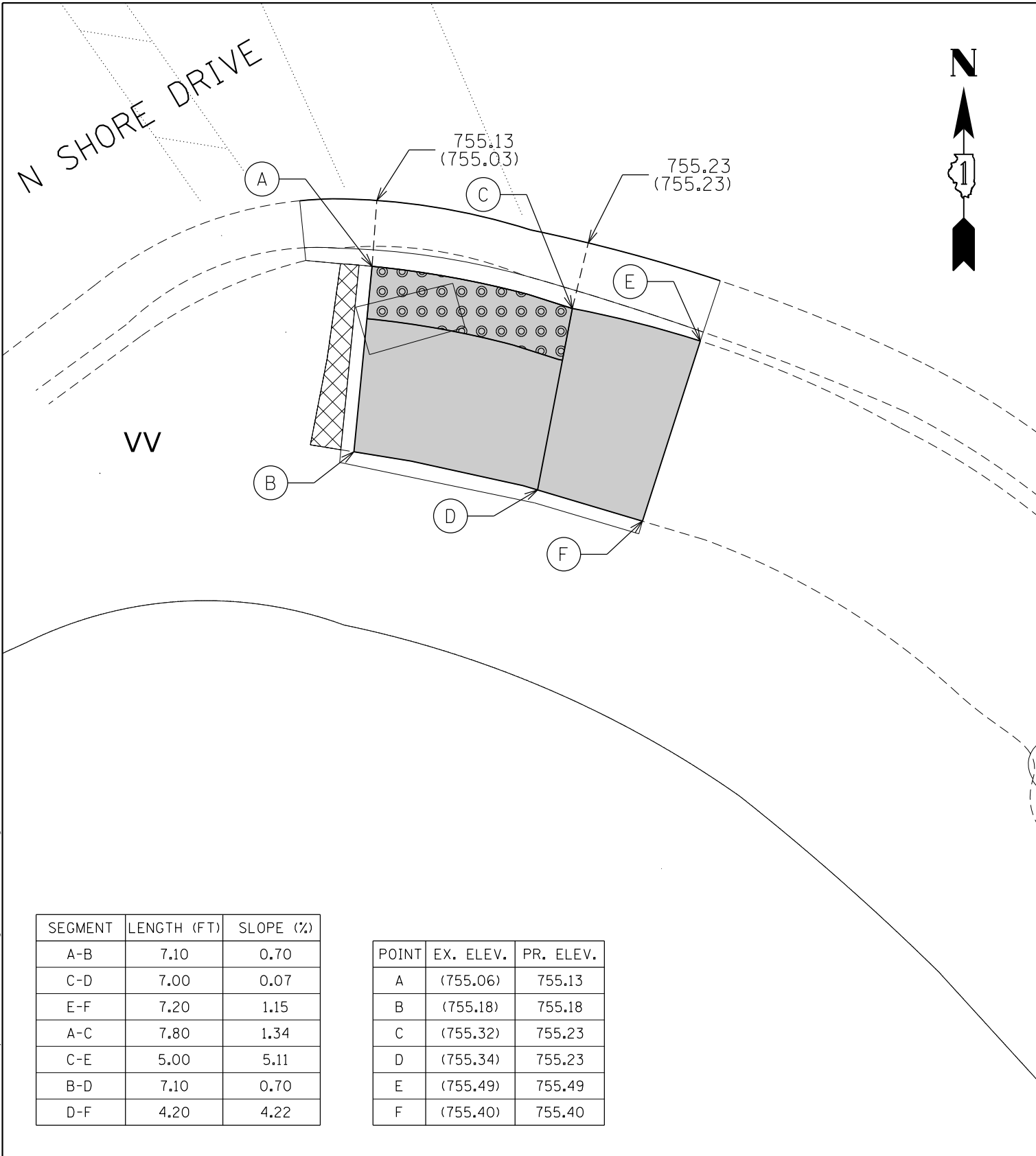
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PLOT DATE = 5/29/2019	CHECKED -	REVISD -
	DATE -	REVISD -

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

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**  
 SCALE: 1"=20'    SHEET 1 OF 16 SHEETS    STA.    TO STA.

F.A.P. RTE. 344	SECTION 2019-015-R5	COUNTY LAKE	TOTAL SHEETS 45	SHEET NO. 28
CONTRACT NO. 62H92				ILLINOIS FED. AID PROJECT





SEGMENT	LENGTH (FT)	SLOPE (%)
A-B	7.10	0.70
C-D	7.00	0.07
E-F	7.20	1.15
A-C	7.80	1.34
C-E	5.00	5.11
B-D	7.10	0.70
D-F	4.20	4.22

POINT	EX. ELEV.	PR. ELEV.
A	(755.06)	755.13
B	(755.18)	755.18
C	(755.32)	755.23
D	(755.34)	755.23
E	(755.49)	755.49
F	(755.40)	755.40

REFERENCE BENCHMARK ELEV 754.034  
 BENCHMARK : EAST BOLT ON FIRE HYDRANT  
 LOCATION : BETWEEN N SHORE DRIVE AND LAKEVIEW DRIVE

**LEGEND**

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

REFERENCE BENCHMARK ELEV 754.034  
 BENCHMARK : EAST BOLT ON FIRE HYDRANT  
 LOCATION : BETWEEN N SHORE DRIVE AND LAKEVIEW DRIVE

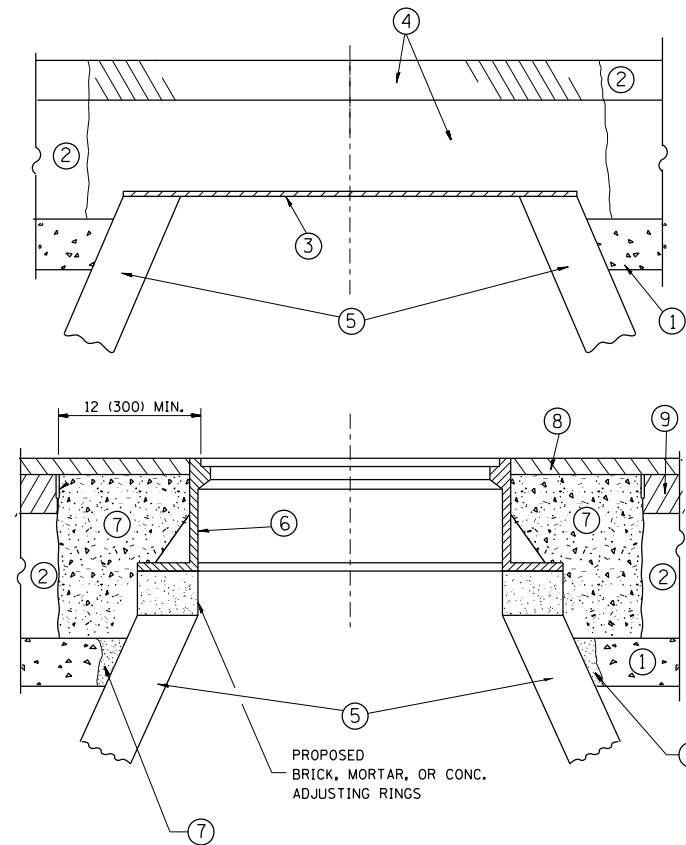
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USER NAME = rothjp	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 5/29/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN**  
**US ROUTE 45 - WOODLAWN DRIVE TO ILLINOIS ROUTE 83**  
 SCALE: 1"=20' SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	45	30
CONTRACT NO. 62H92				
ILLINOIS FED. AID PROJECT				



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

**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.

**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.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

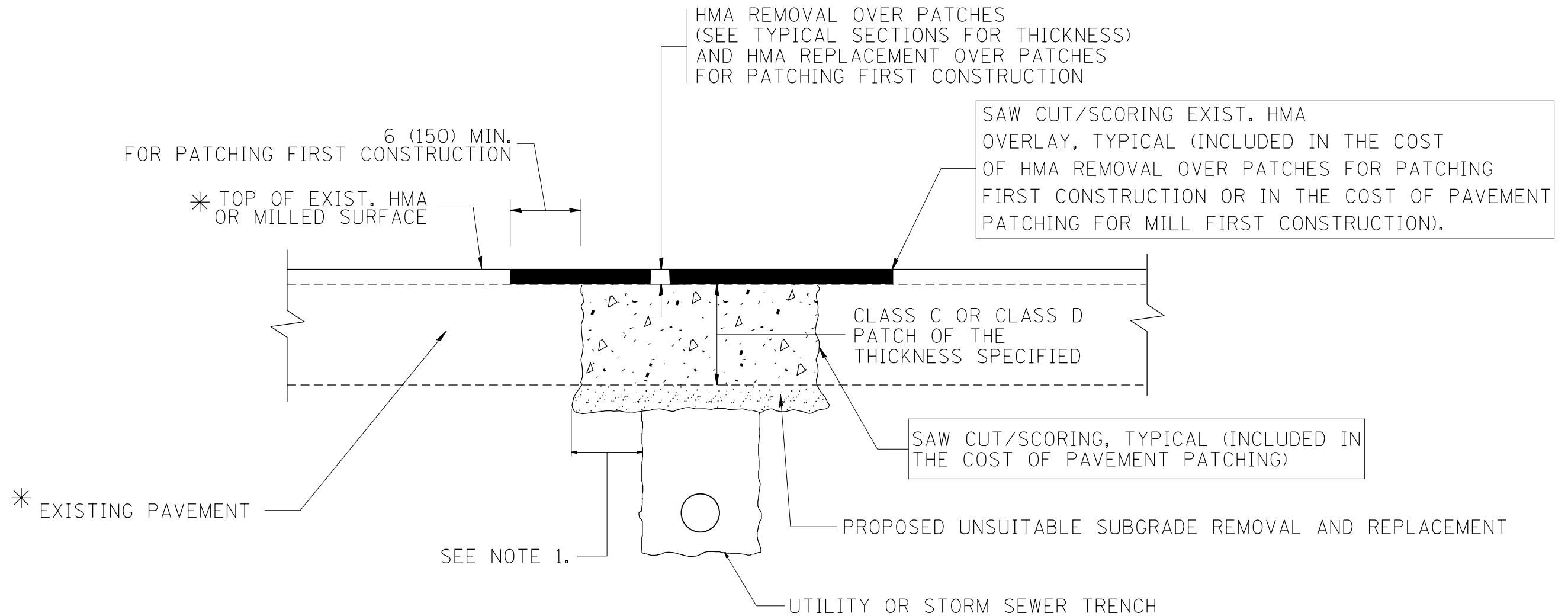
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	PLOT DATE = 5/28/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	31
BD600-03 (BD-8)		CONTRACT NO. 62H92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

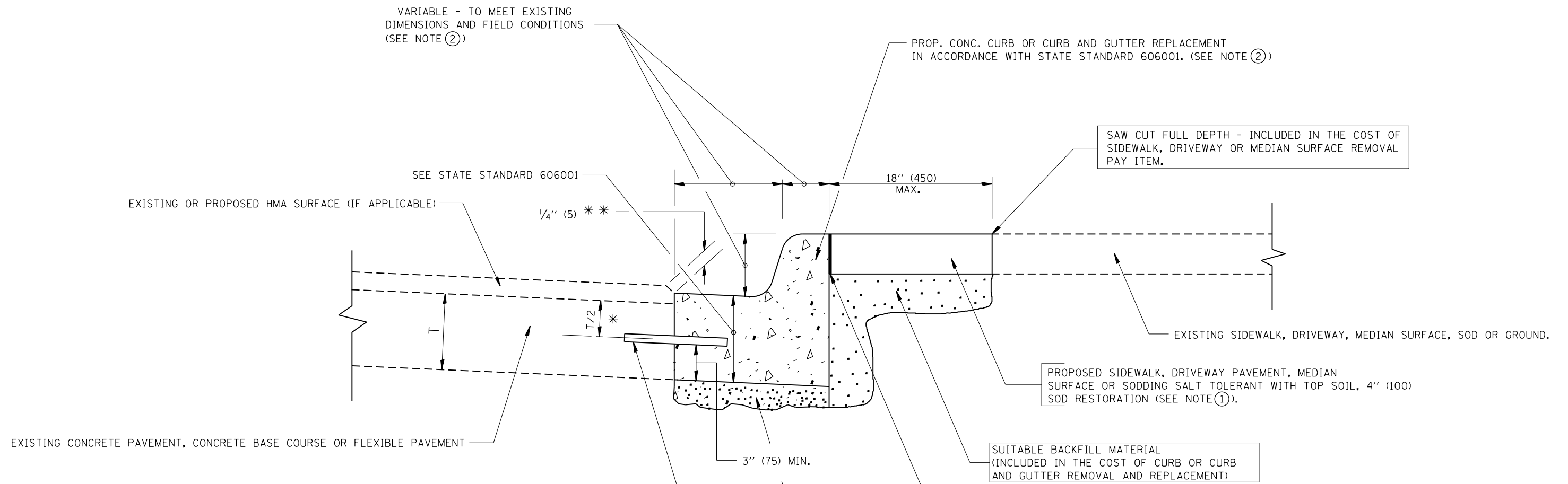
**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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

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

FILE NAME =	USER NAME = rothjp	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 5/28/2019	DATE - 10-25-94	REVISED - R. BORO 09-04-07	REVISED - K. ENG 10-27-08		BD400-04 (BD-22)			CONTRACT NO. 62H92				
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		





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

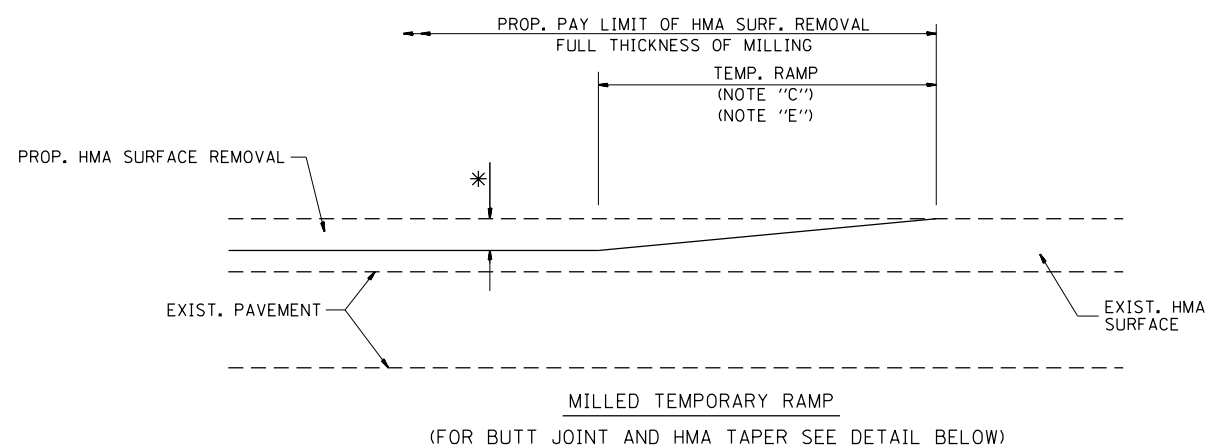
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, 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".

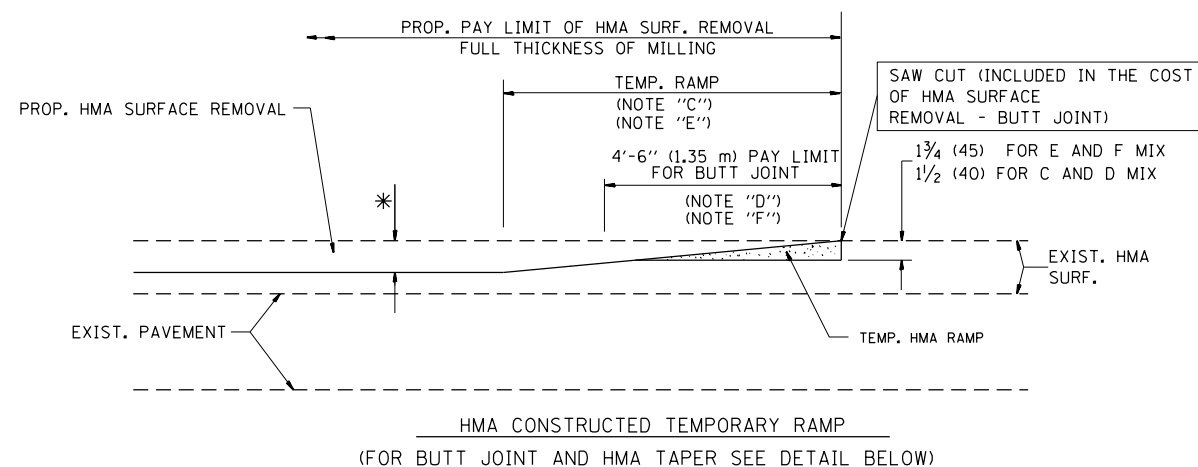
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = rothjp	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			REVISED - A. ABBAS 03-21-97			344	2019-015-R5	LAKE	42	33	
			REVISED - M. GOMEZ 01-22-01			<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 62H92</b>			
			REVISED - R. BORO 12-15-09			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					
PLOT SCALE = 100.0000' / in.				CHECKED -		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
PLOT DATE = 5/28/2019				DATE - 03-11-94							

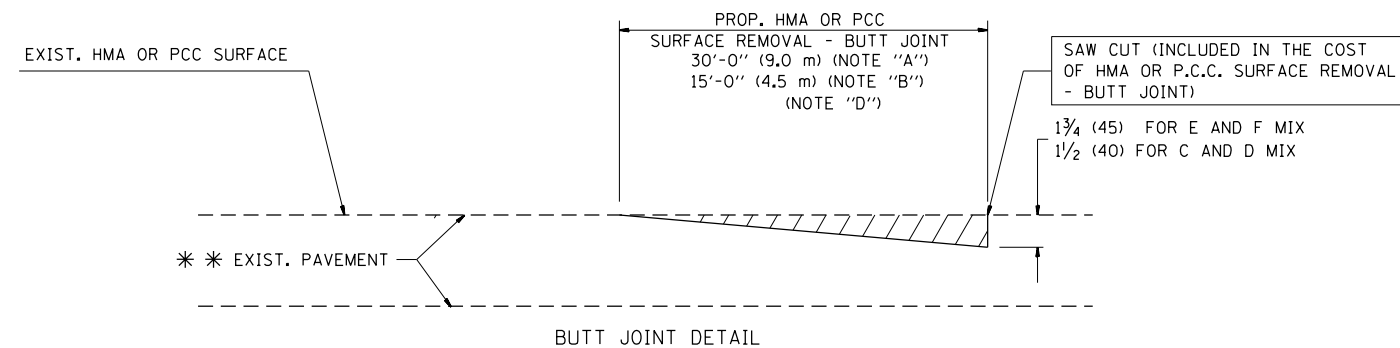


**OPTION 1**

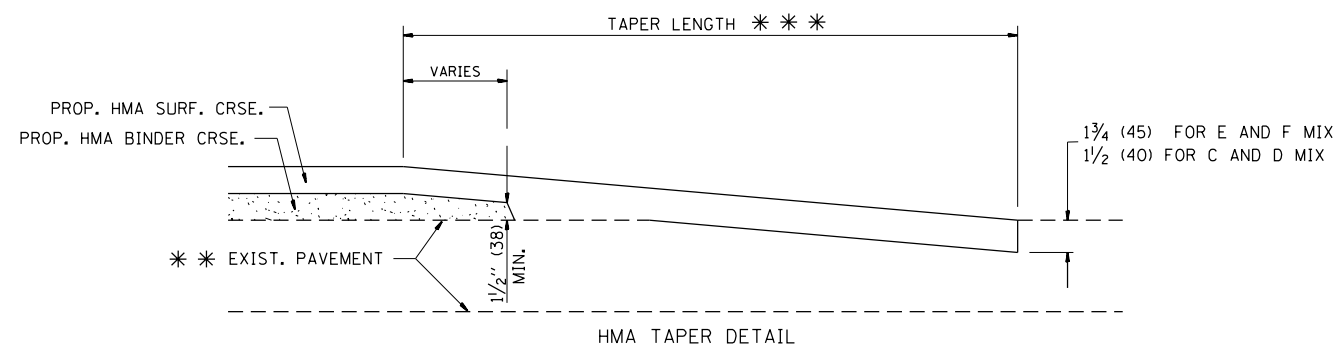


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

**NOTES**

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

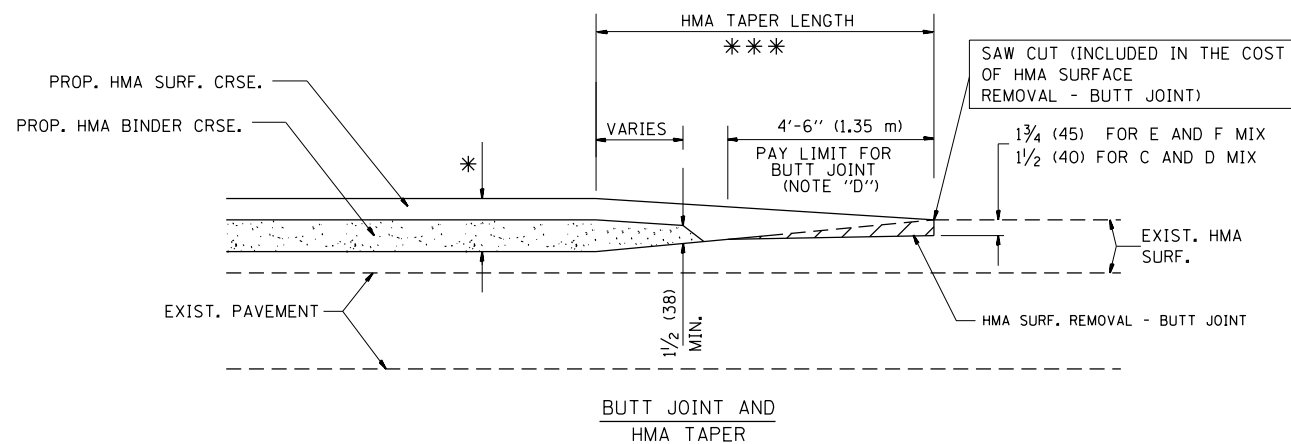
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

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

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



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

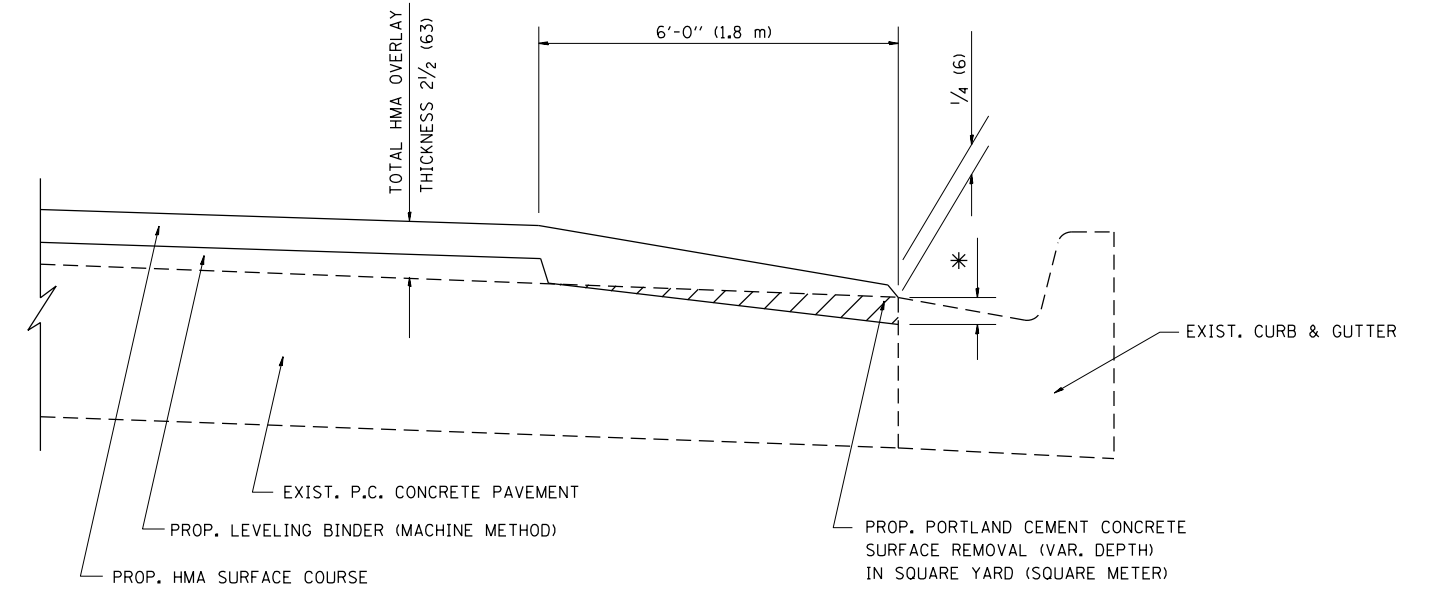
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	PLOT DATE = 5/28/2019		REVISED - R. BORO 01-01-07

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	34
<b>BD400-05 BD32</b>		<b>CONTRACT NO. 62H92</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HMA TAPER AT  
EDGE OF P.C.C PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
E	1 3/4 (44)	3/4 (19)	1/2 (38)

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

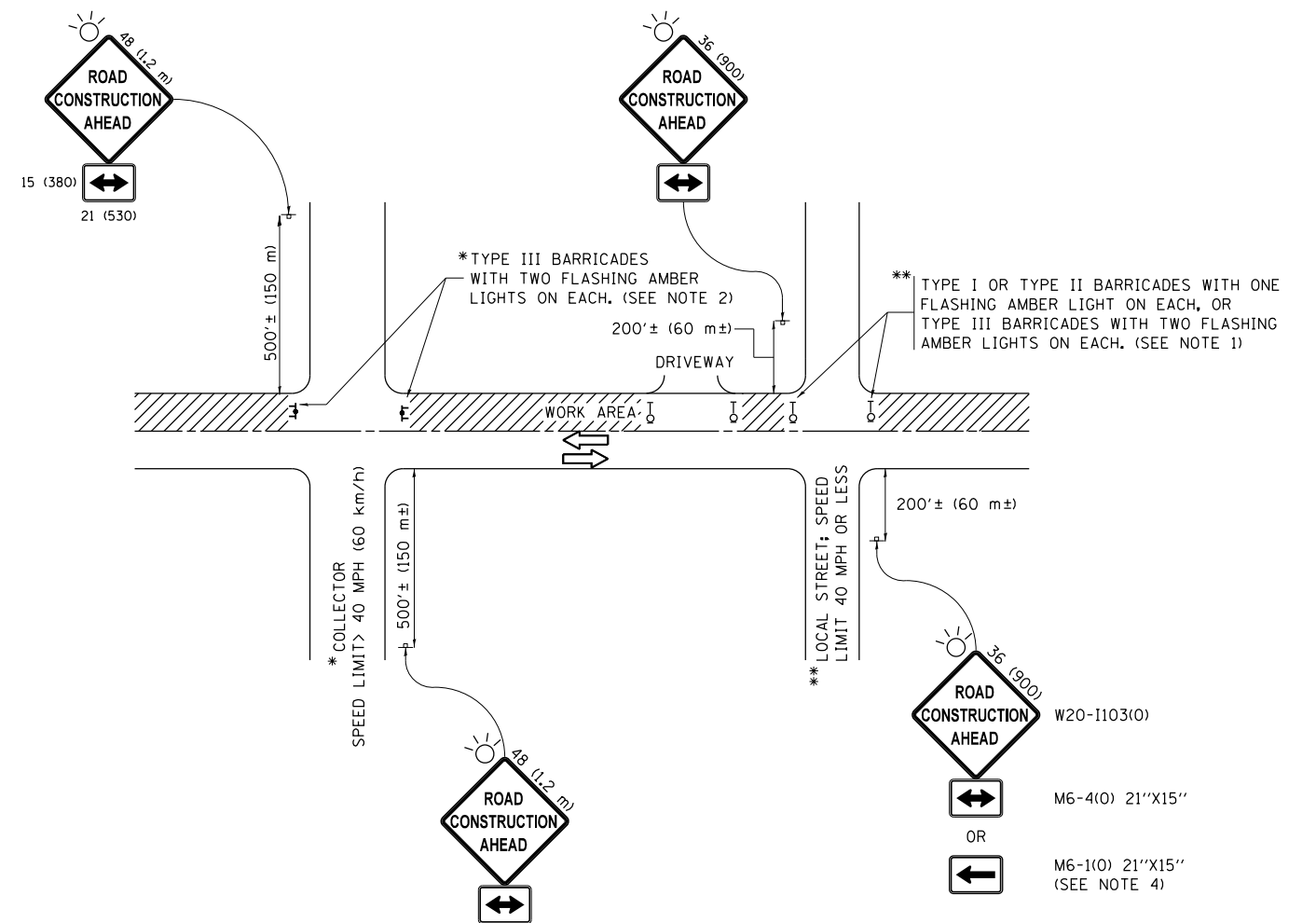
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07
	PLOT DATE = 5/28/2019	DATE - 09-10-94	REVISED - JP CHANG 07-08-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HMA TAPER AT  
EDGE OF P.C.C PAVEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-RS	LAKE	42	35
<b>BD400-06 (BD33)</b>		<b>CONTRACT NO. 62H92</b>		
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.

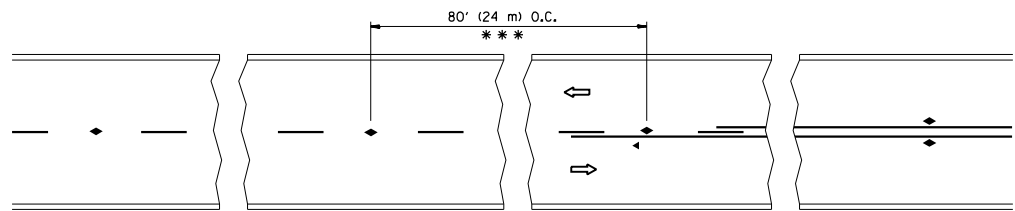
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	PLOT DATE = 5/28/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

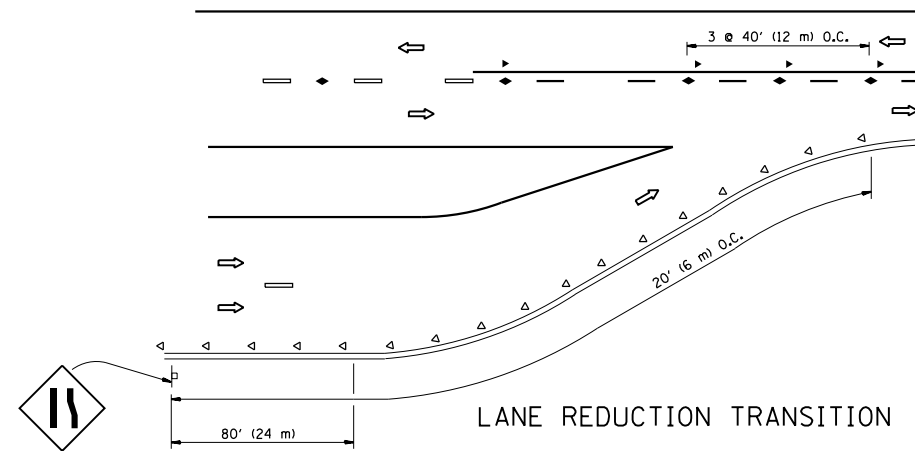
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			<b>CONTRACT NO. 62H92</b>	
ILLINOIS FED. AID PROJECT				

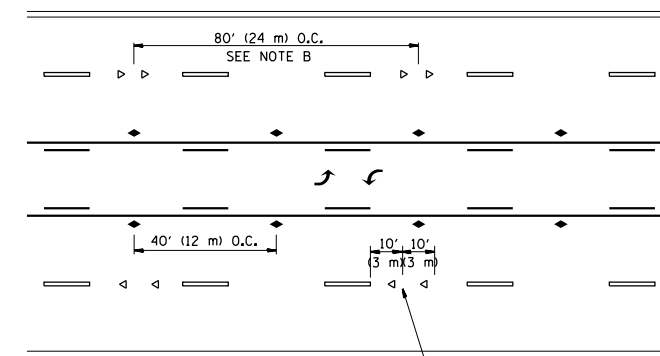


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

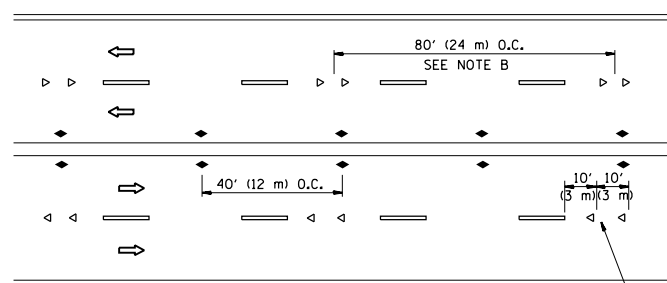
TWO-LANE/TWO-WAY



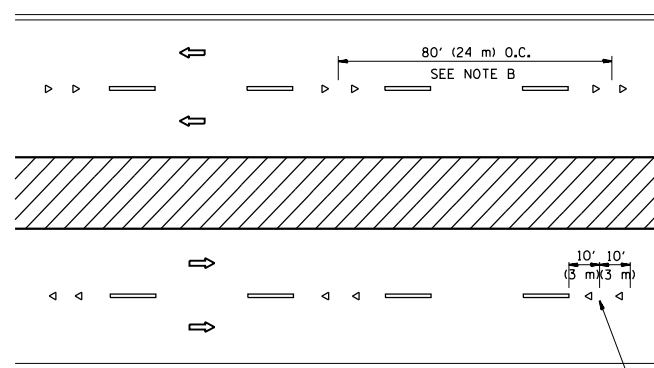
LANE REDUCTION TRANSITION



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

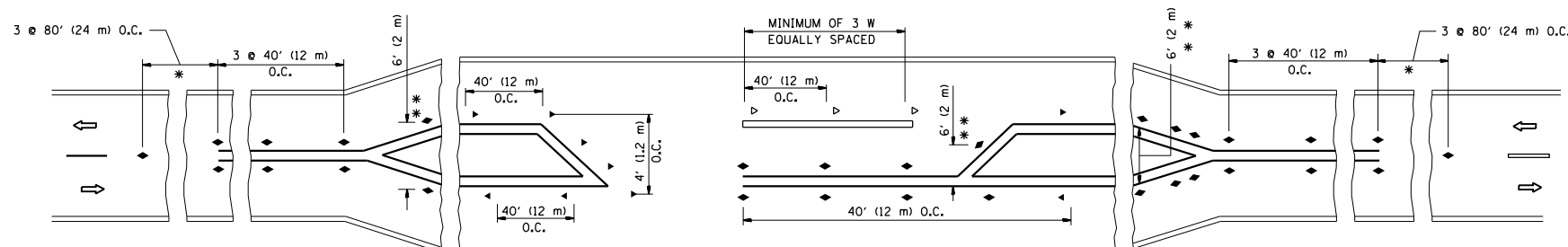
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

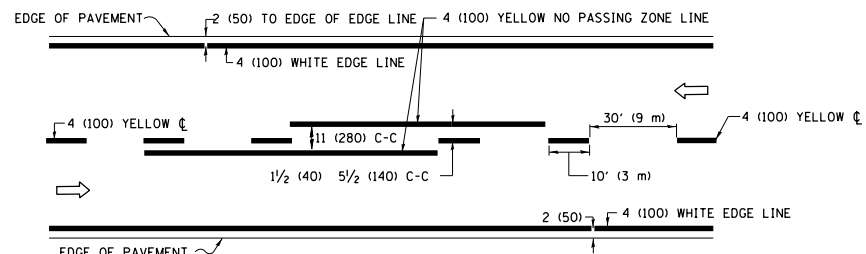
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	PLOT SCALE = 100.0000' / in.	DATE -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 5/28/2019		REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

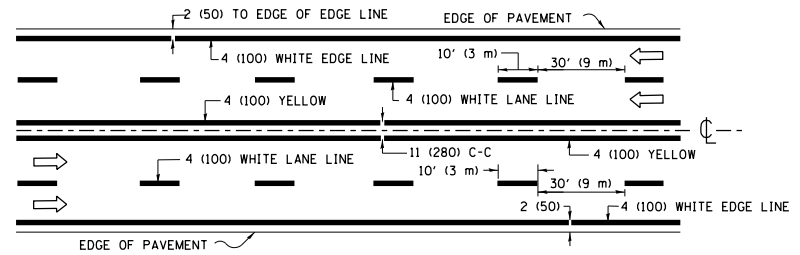
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

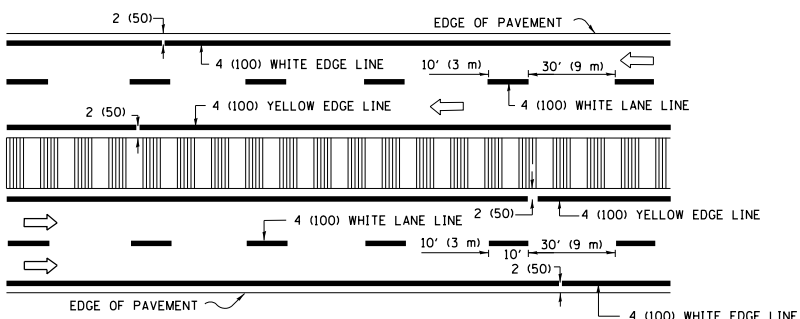
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	37
TC-11		CONTRACT NO. 62H92		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

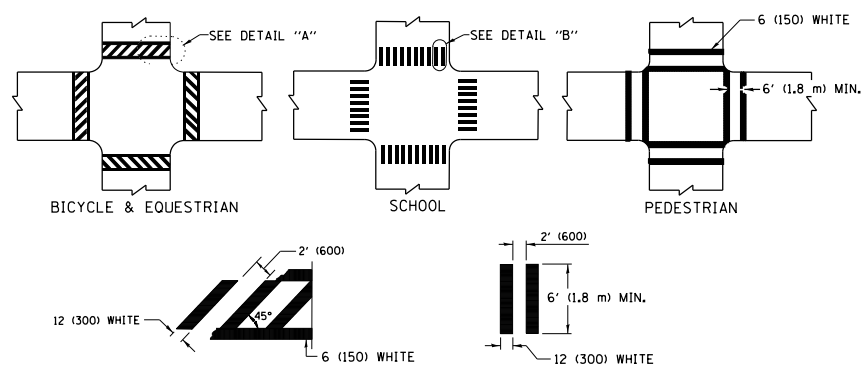


**MULTI-LANE UNDIVIDED**



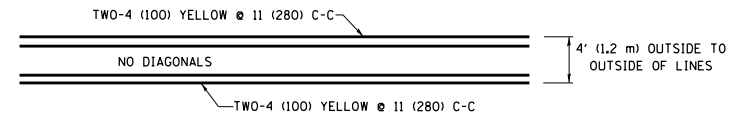
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

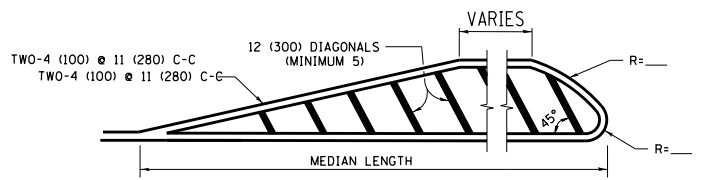


**TYPICAL CROSSWALK MARKING**

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

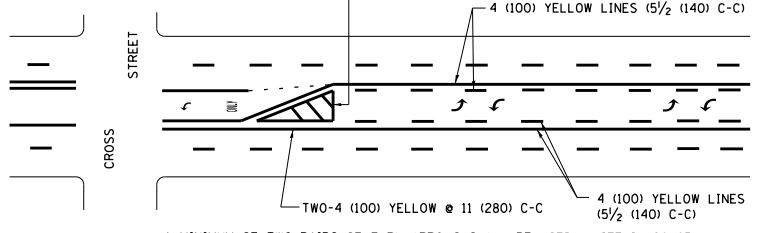


**4' (1.2 m) WIDE MEDIANS ONLY**



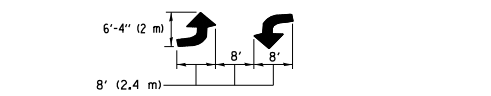
**MEDIANS OVER 4' (1.2 m) WIDE**

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))



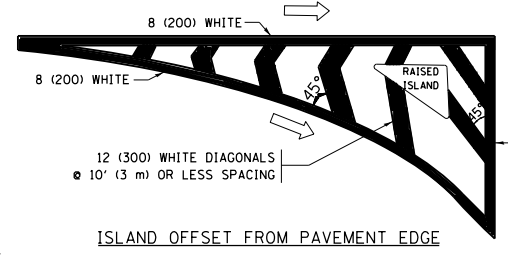
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

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.

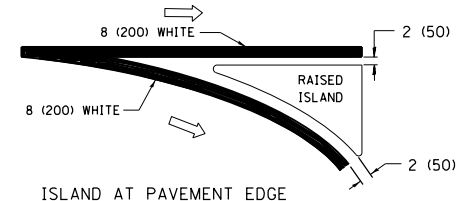


**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

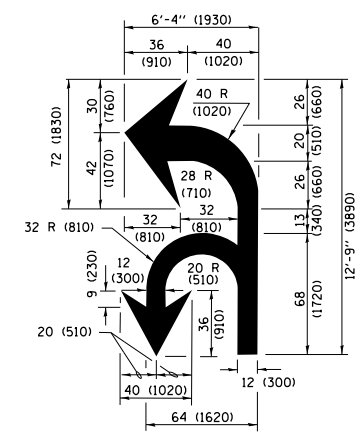
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



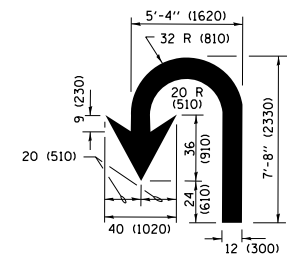
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME =	USER NAME = rothjp	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
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	PLOT DATE = 5/28/2019		REVISED - C. JUCIUS 04-12-16

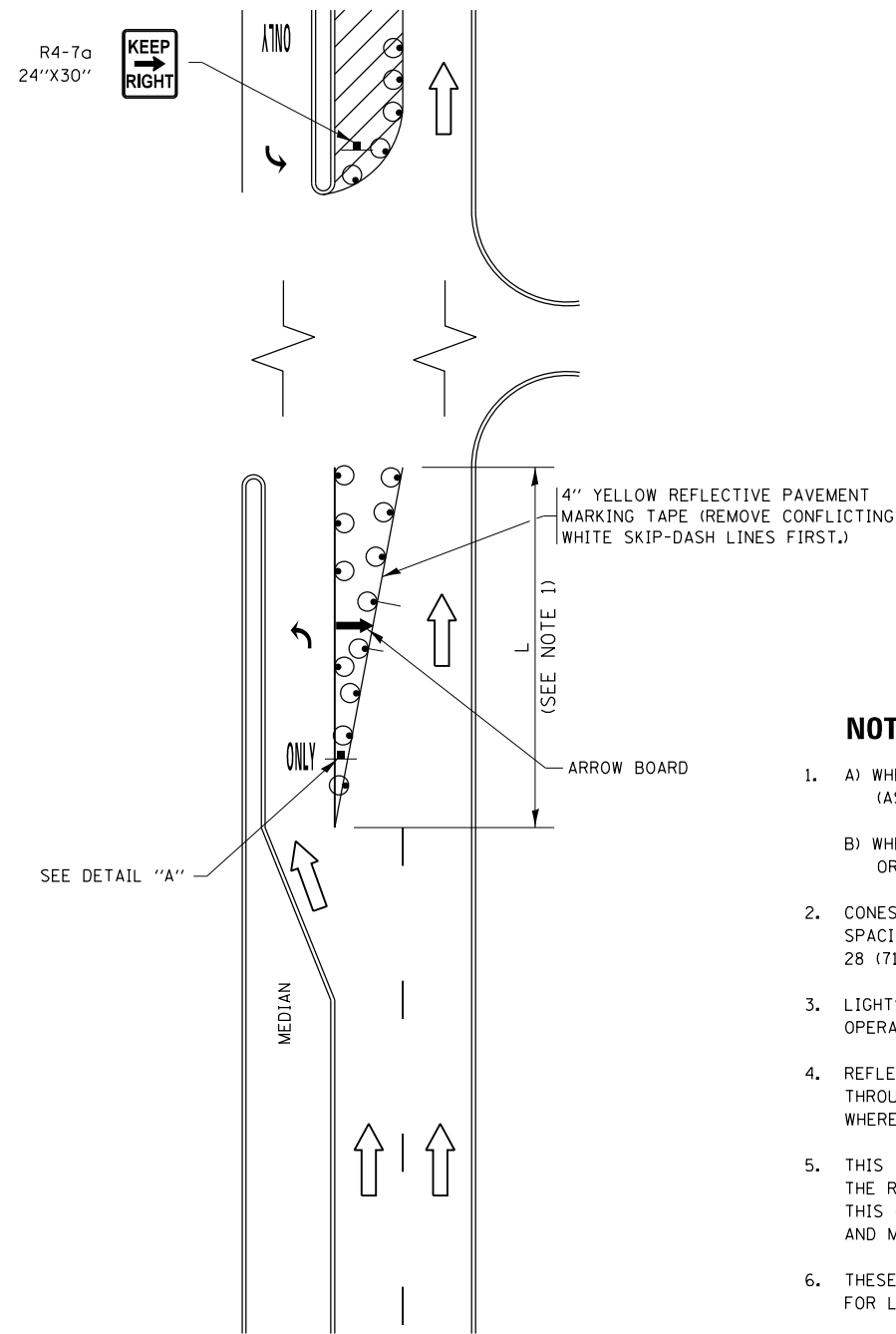
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.
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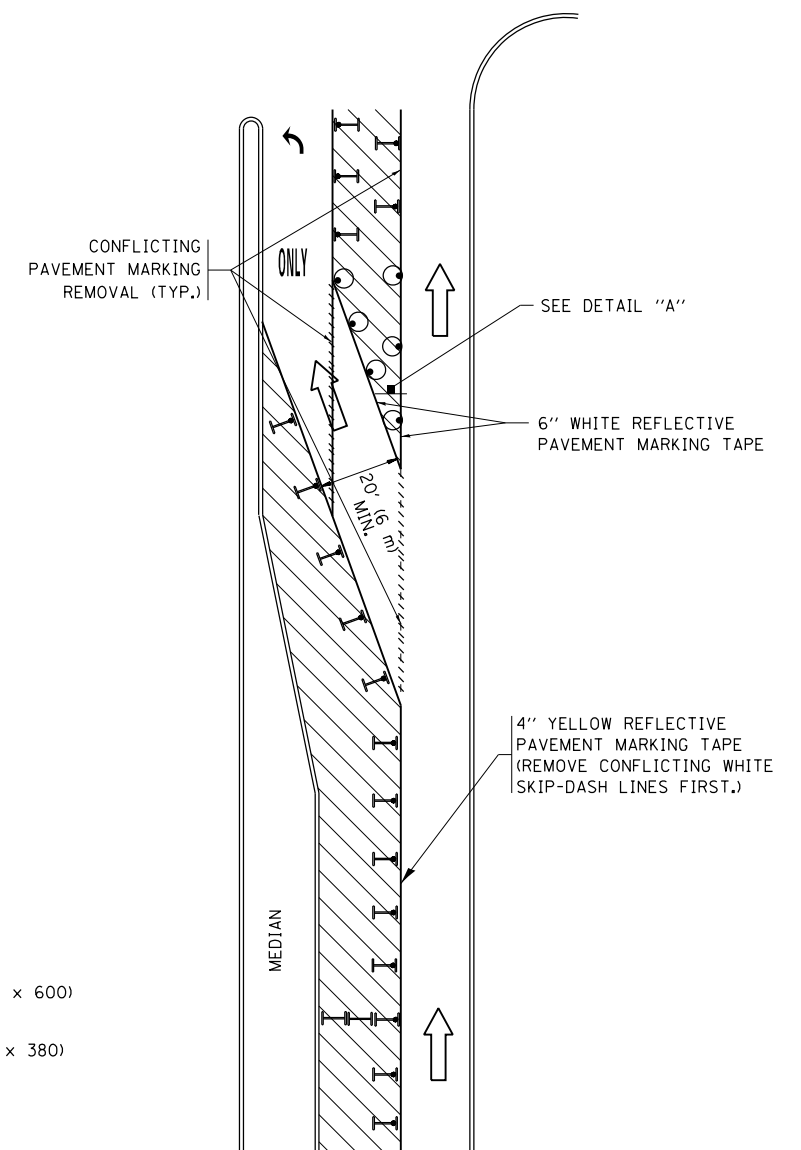
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	38
TC-13		CONTRACT NO. 62H92		
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

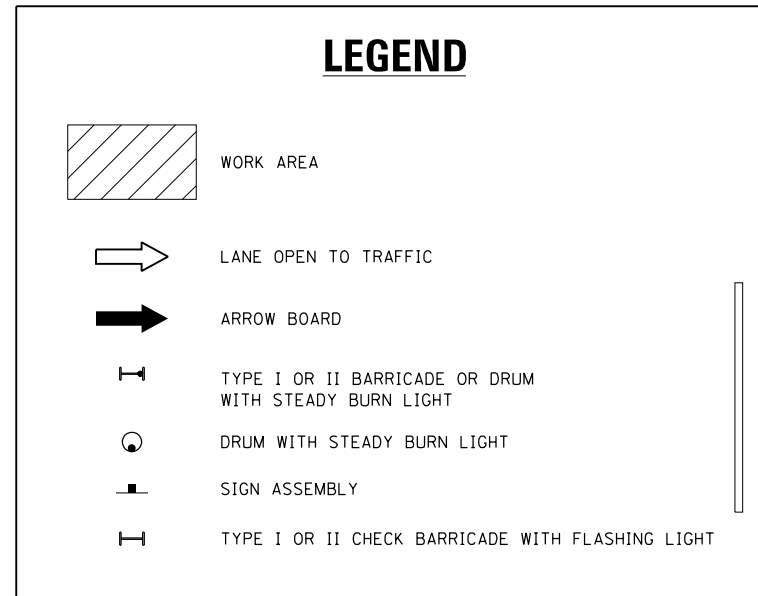


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

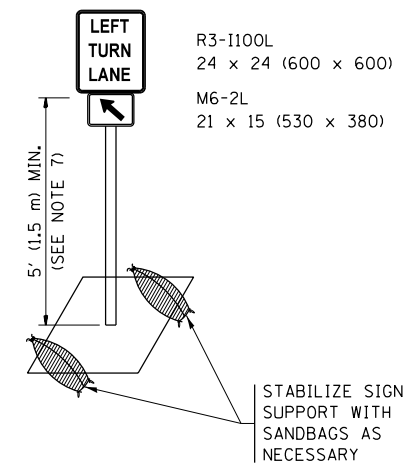


**FIGURE 2**



### NOTES:

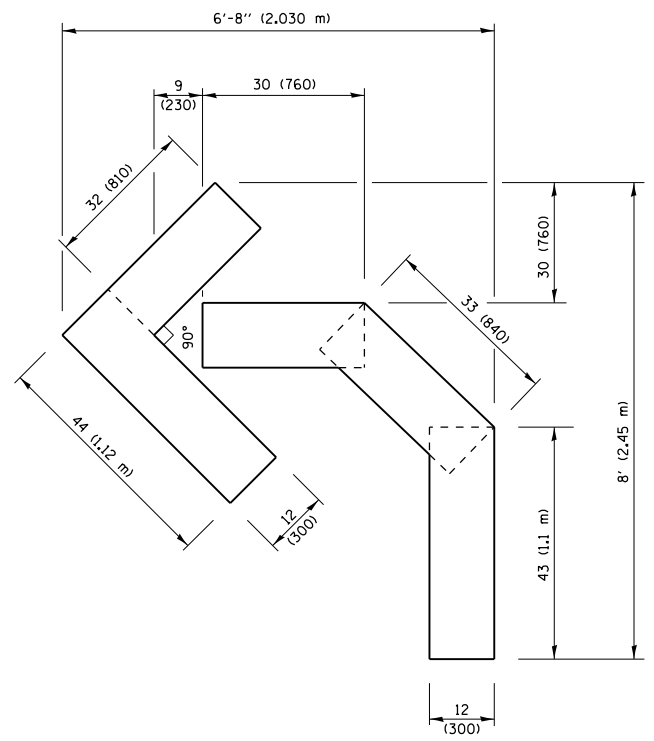
1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. 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 PREQUIREMENTS.
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.



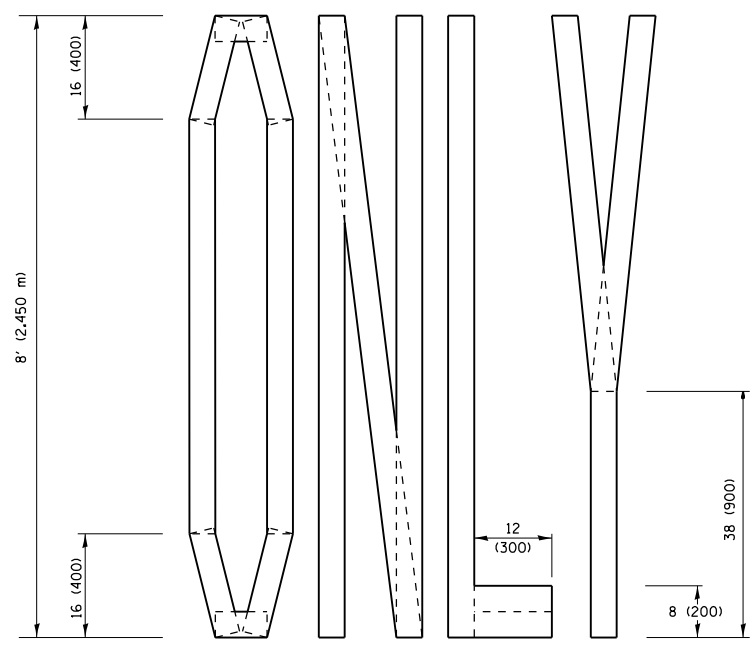
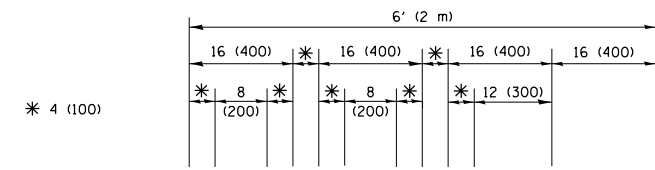
**DETAIL A**

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

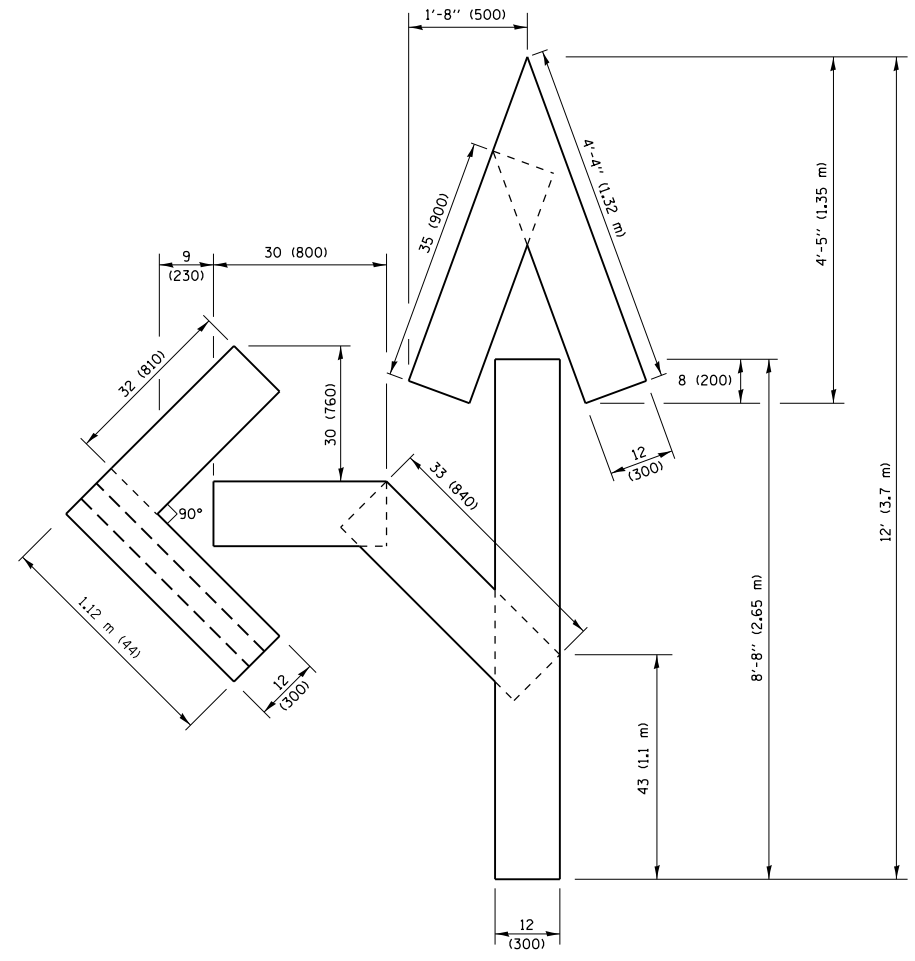
FILE NAME =	USER NAME = rothjp	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\011361\REVISED Design\AS-HOUSEH 11-07-95	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			344	2019-015-R5	LAKE	42	39
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			<b>TC-14</b>		<b>CONTRACT NO. 62H92</b>		
	PLOT DATE = 5/28/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -			SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.



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

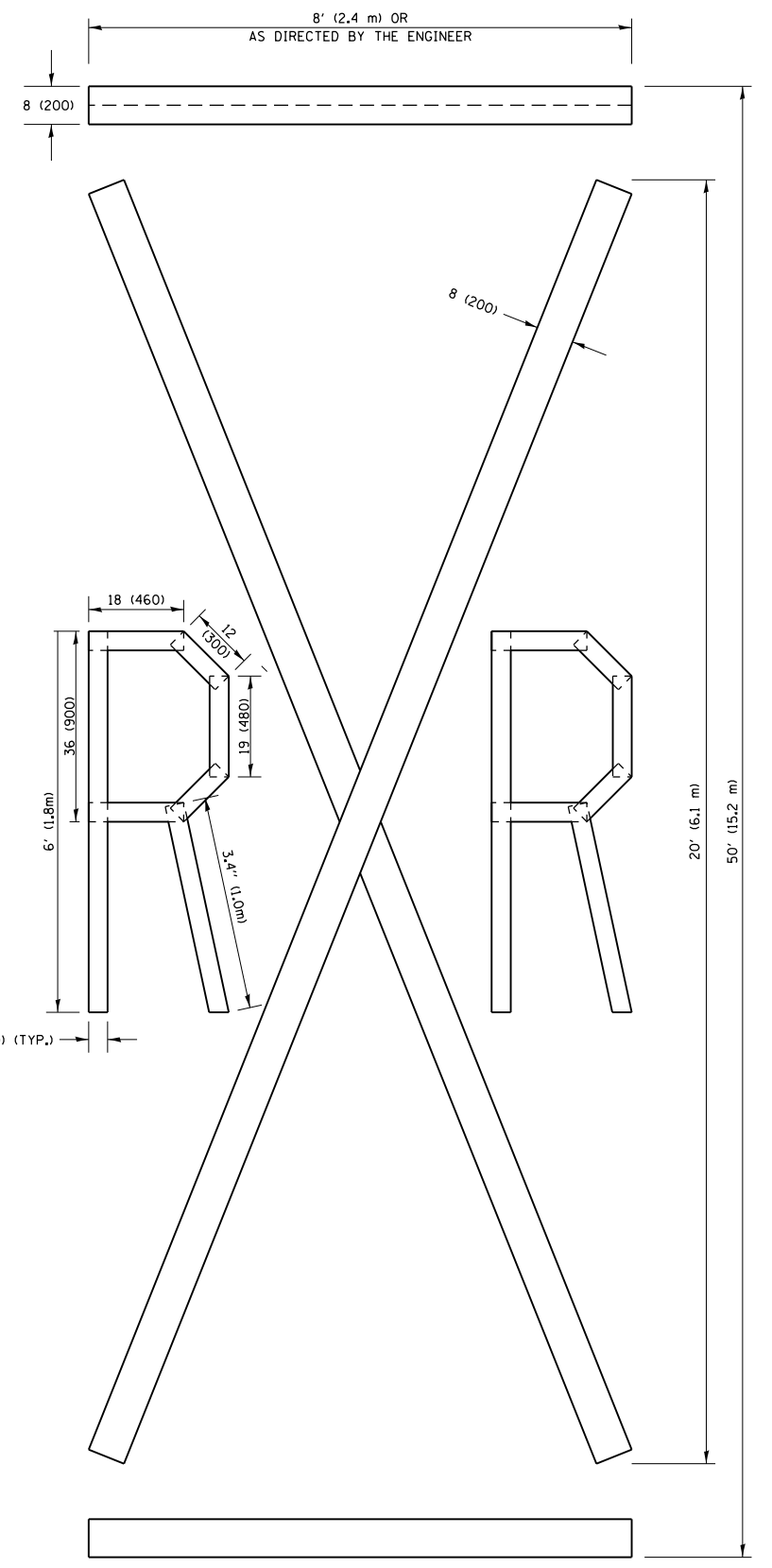


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**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 = rothjp	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
pw:\planroom.dot\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\011361\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	40
<b>TC-16</b>		<b>CONTRACT NO. 62H92</b>		
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 = rothjp	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\011361\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / 1in.	DATE -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 5/28/2019		REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

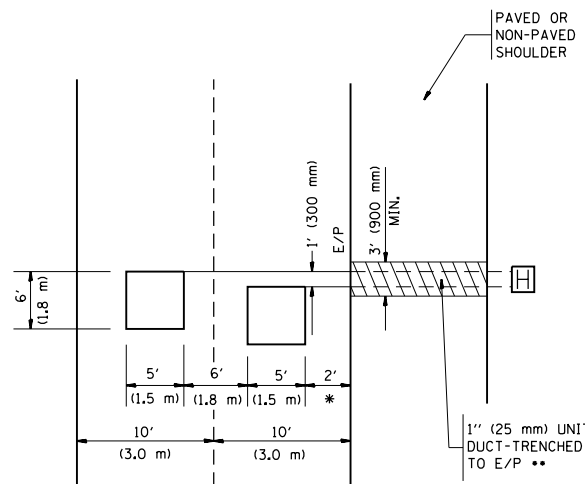
**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2019-015-R5	LAKE	42	41
TC-22		CONTRACT NO. 62H92		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

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

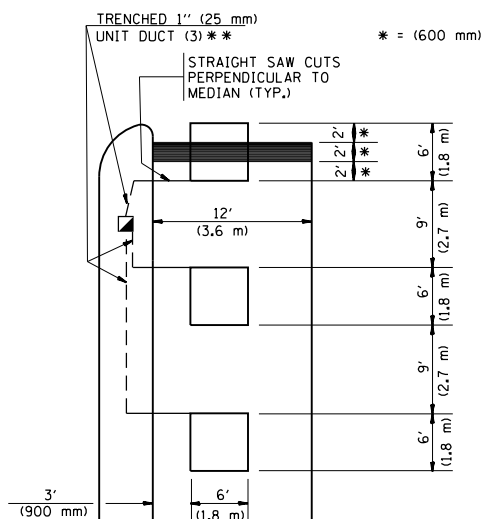


\* = (600 mm)

\*\* 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)**

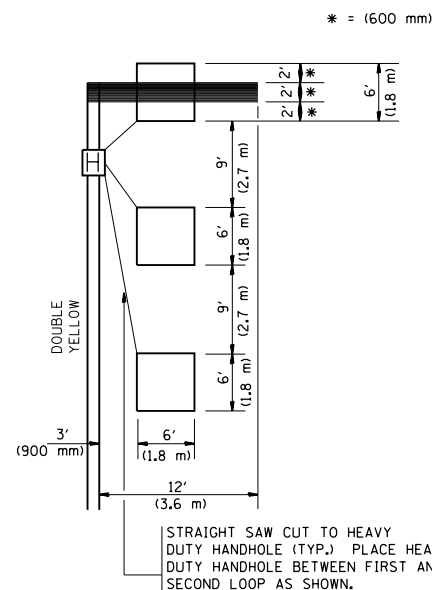
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

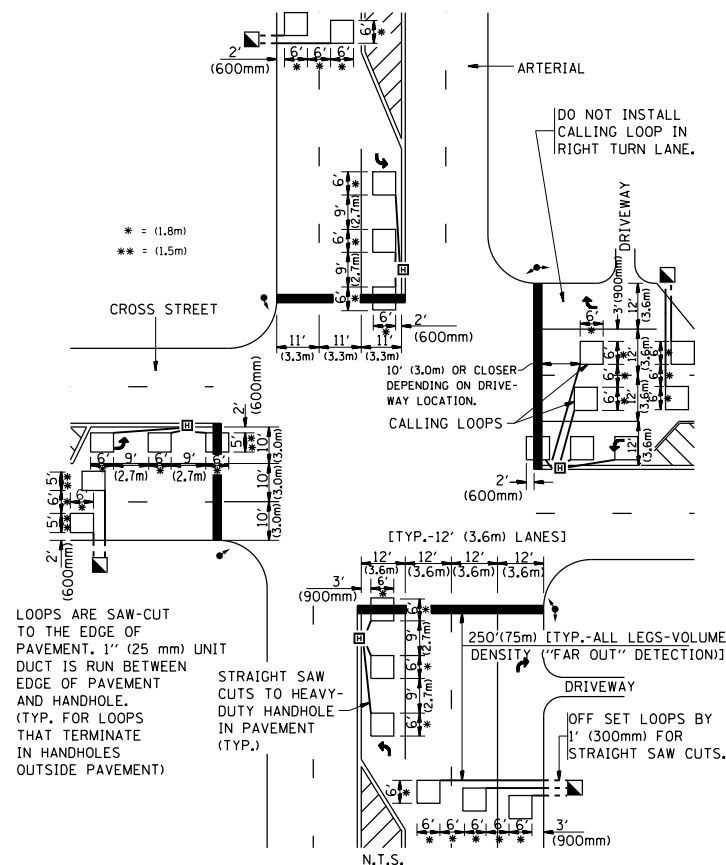
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



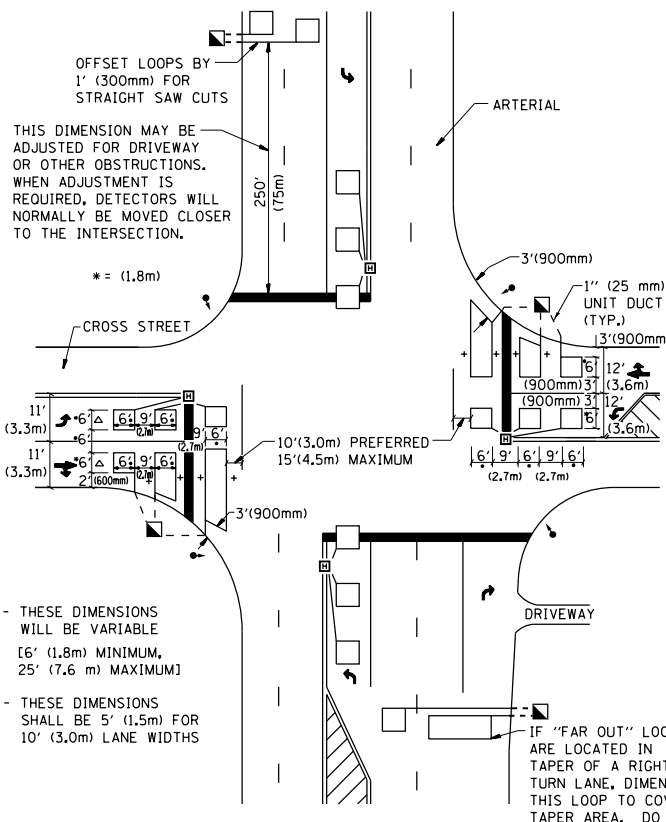
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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.

FILE NAME =	USER NAME = rothjp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\011361\Drawings\Design\DistStd.dgn		CHECKED - R.K.F.	REVISED -			344	2019-015-R5	LAKE	42	42
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			<b>TS-07</b>		<b>CONTRACT NO. 62H92</b>		
PLOT DATE = 5/28/2019						SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT