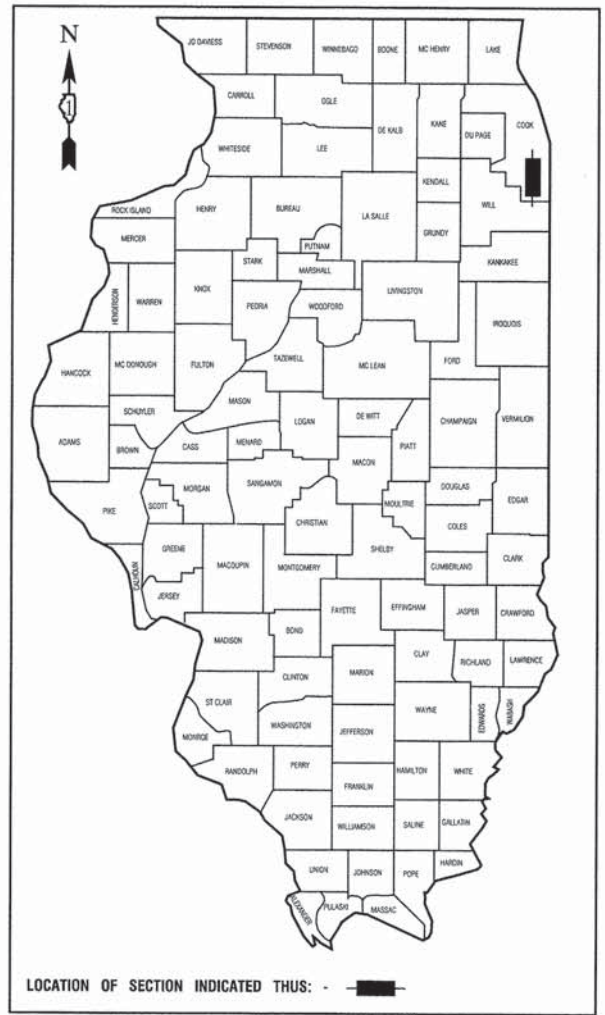


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F. A. ID. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	1
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-4003 (249)	

CONTRACT #61A01



# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 2774 (OAK PARK AVENUE)  
FAU 1622 (183RD STREET) TO FAU 3600 (SOUTH STREET)  
ROADWAY IMPROVEMENTS  
PROJECT NO.: CMM-4003 (249)  
SECTION NO.: 13-00115-00-RS  
VILLAGE of TINLEY PARK  
COOK COUNTY  
JOB NO.: C-91-103-14

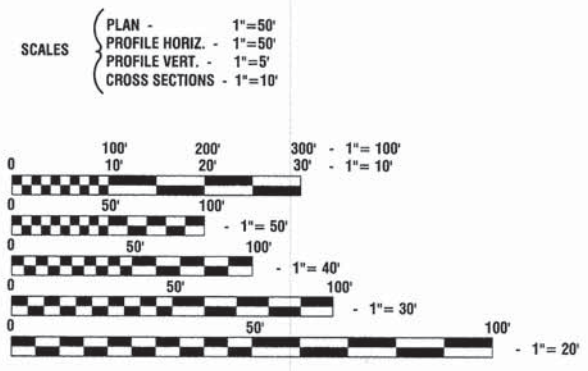
**INDEX OF SHEETS**

1. COVER SHEET, INDEX OF SHEETS & STATE STANDARDS
- 2.-3. SUMMARY OF QUANTITIES & GENERAL NOTES
4. TYPICAL SECTIONS
- 5.-10. PLAN AND PROFILE
- 11.-13. PAVEMENT MARKING & SIGNING PLAN
14. TRAFFIC SIGNAL MODIFICATION PLAN
15. CABLE PLAN
- 16.-24. IDOT DISTRICT 1 STANDARD DETAILS
- 25.-35. CROSS SECTIONS

**HIGHWAY STANDARDS**

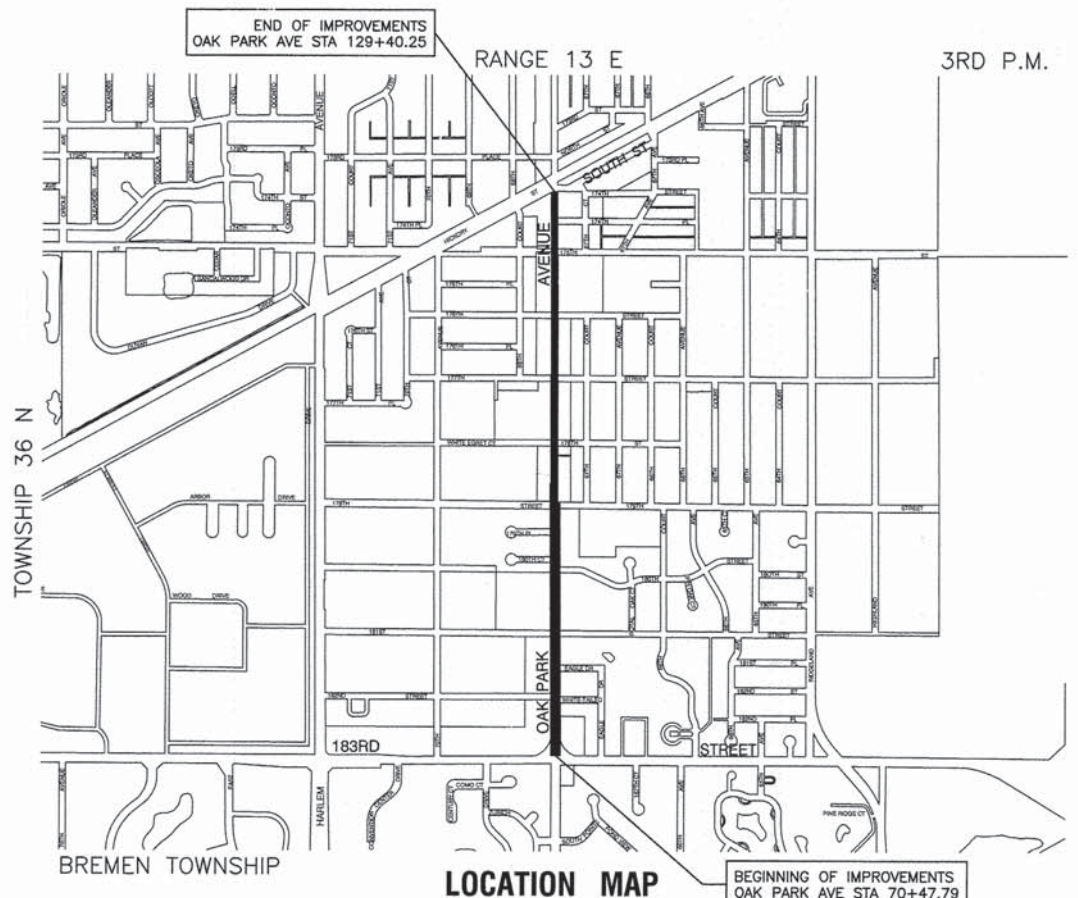
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-07 PERPENDICULAR CURB RAMPS
- 442201-03 CLASS C AND D PATCHES
- 606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF ROAD OPERATIONS, 2L,2W, 15' TO 24" FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L,2W SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L,2W MOVING OPERATIONS - DAY ONLY
- 701502-06 URBAN LANE CLOSURE, 2L,2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-03 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTOR LOOPS

	OAK PARK AVENUE
2013 ADT -	10,600
2040 ADT -	14,000
POSTED SPEED LIMIT -	30 mph
DESIGN PERIOD -	20 YEARS
DESIGN SPEED LIMIT -	35 mph
STREET CLASSIFICATION -	MINOR COLLECTOR



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

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



GROSS LENGTH= 5,893 FEET= 1.12 MILES  
NET LENGTH= 5,893 FEET= 1.12 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Approved: 12/4/2013  
*Dale Jahn*  
Public Works Director, Village of Tinley Park

Passed: December 17, 2013  
*C. Holt*  
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: December 17, 2013  
*John Fortmann*  
Deputy Director of Highways, Region 1 Engineer

PRINTED BY THE AUTHORITY OF  
THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE  
DIRECT SUPERVISION OF:  
*John Fortmann*  
12/2/2013



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, PE (847) 705-4406 SCHAUMBURG, IL  
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

CONTRACT NO. 61A01

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	0005	0042
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	93	93	
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	74	74	
	20200100	EARTH EXCAVATION	CU YD	497	497	
*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1397	1397	
*	25200200	SUPPLEMENTAL WATERING	UNIT	4	4	
	28000510	INLET FILTERS	EACH	10	10	
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	2830	2830	
	35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	67	67	
	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2514	2514	
	40600300	AGGREGATE (PRIME COAT)	TON	51	51	
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	10	
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	76	76	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	299	299	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	324	324	
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2476	2476	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	677	677	
	42400800	DETECTABLE WARNINGS	SQ FT	281	281	
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1763	1763	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	62	62	
	44000600	SIDEWALK REMOVAL	SQ FT	12999	12999	
	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	5	5	
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	15	15	

\* - INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	0005	0042
	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	25	25	
	44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	50	50	
*	56400100	FIRE HYDRANTS TO BE MOVED	EACH	4	4	
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	32	32	
	60255500	MANHOLES TO BE ADJUSTED	EACH	17	17	
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3	
	60260100	INLETS TO BE ADJUSTED	EACH	19	19	
	60262700	INLETS TO BE RECONSTRUCTED	EACH	2	2	
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2	
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	12	12	
	67100100	MOBILIZATION	L SUM	1	1	
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	20000	20000	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	6667	6667	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	116	116	
*	72900200	METAL POST - TYPE B	FOOT	294	294	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1734	1734	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	19339	19339	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2457	2457	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1545	1545	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	216	216	

\* - INDICATES SPECIALTY ITEMS

FILE NAME = 13308-QUAN-01 - IDOT P01

USER NAME =	DESIGNED -- JPH	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
SUMMARY OF QUANTITIES & GENERAL NOTES

SCALE: SHEET NO. 2 OF 35 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	2
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT CMM-4003 (249)	

CONTRACT NO. 61A01

SUMMARY OF QUANTITIES					CONSTRUCTION TYPE CODE	CONSTRUCTION TYPE CODE
S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	0005	0042
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	644	644	
*	A2000116	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
*	A2004416	TREE, GINKGO BILOBA (GINKGO), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
*	A2004816	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
*	A2006416	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
*	A2008468	TREE, ULMUS AMERICANA PRINCETON (PRINCETON AMERICAN ELM), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
	LR400510	REJUVENATING AGENT	GALLON	5536	5536	
	LR400520	HOT IN-PLACE RECYCLING - SURFACE RECYCLING	SQ YD	27676	27676	
	X0322080	BUS SHELTER REMOVE AND RELOCATE	EACH	1	1	
*	X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1	
*	X2520700	SODDING, SPECIAL	SQ YD	1397	1397	
	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	8055	8055	
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	39	39	
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1314	1314	
	Z0076600	TRAINEES	HOUR	500		500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500

\* - INDICATES SPECIALTY ITEMS

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 AND (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTORS USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITY INFORMATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
- ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES BY LIMITING CURB AND GUTTER REPAIR TO ONE-HALF THE DRIVEWAY WIDTH AT ONE TIME AS WELL AS TEMPORARY AGGREGATE. THE COST OF TEMPORARY AGGREGATE SHALL BE CONSIDERED INCLUDED IN THE COST OF DRIVEWAY ITEMS.
- THE REMOVAL AND/OR REPLACEMENT OF ANY DRIVEWAYS, PAVEMENT, CURB, SIDEWALK, ETC. SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS ITEMS.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR AT THEIR EXPENSE.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS OTHERWISE NOTED ON THE PLAN.
- EROSION CONTROL ITEMS HAVE BEEN ADDED FOR USE AT THE DIRECTION OF THE ENGINEER.

**COMMITMENTS**

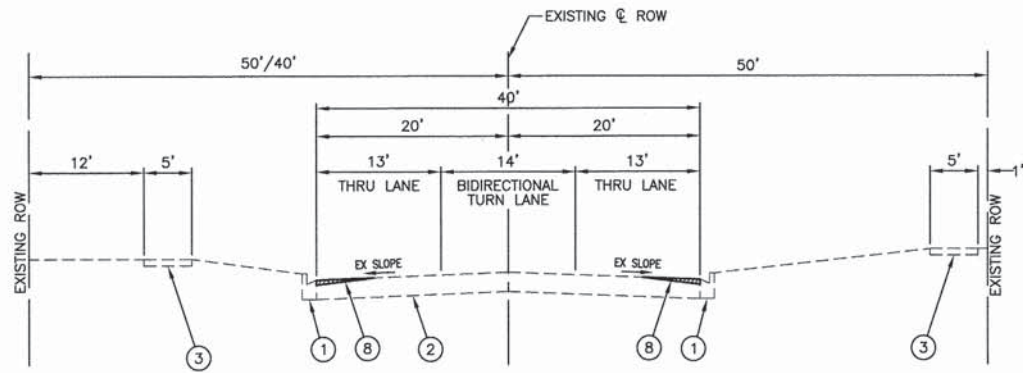
- NO PAVEMENT PATCHING WILL BE PERMITTED AFTER FRIDAY AT 3:00PM OF EACH WEEK.
- WORK WILL BE PERMITTED BETWEEN STATION 126+00 AND STATION 129+40.25 ONLY BETWEEN THE HOURS OF 9:00AM TO 3:00PM. ANY DEVIATION FROM THESE HOURS SHALL REQUIRE APPROVAL FROM THE ENGINEER.

FILE NAME = 13306-QUAN-01 - IDOT P02

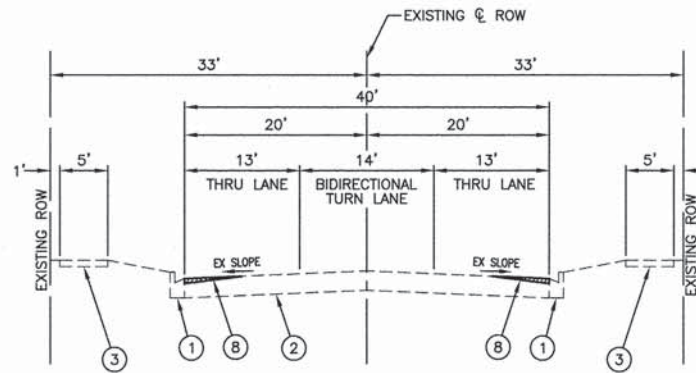
USER NAME =	DESIGNED -- JPH	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

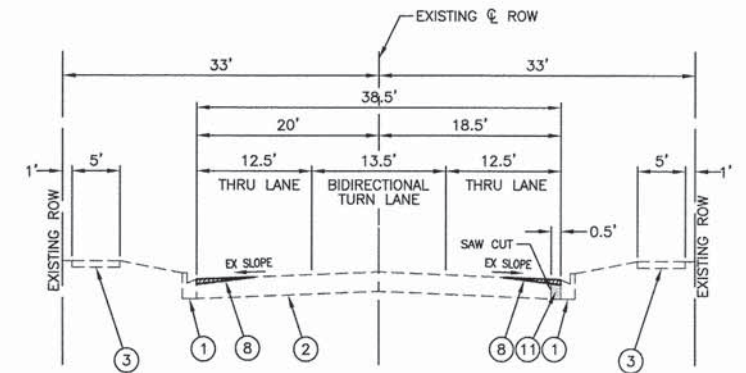
OAK PARK AVENUE ROADWAY IMPROVEMENTS SUMMARY OF QUANTITIES & GENERAL NOTES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:		2774	13-00115-00-RS	COOK	35	3
SHEET NO. 3 OF 35 SHEETS		STA. TO STA.		CONTRACT NO. 61A01		
		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT CMM-4003 (249)		



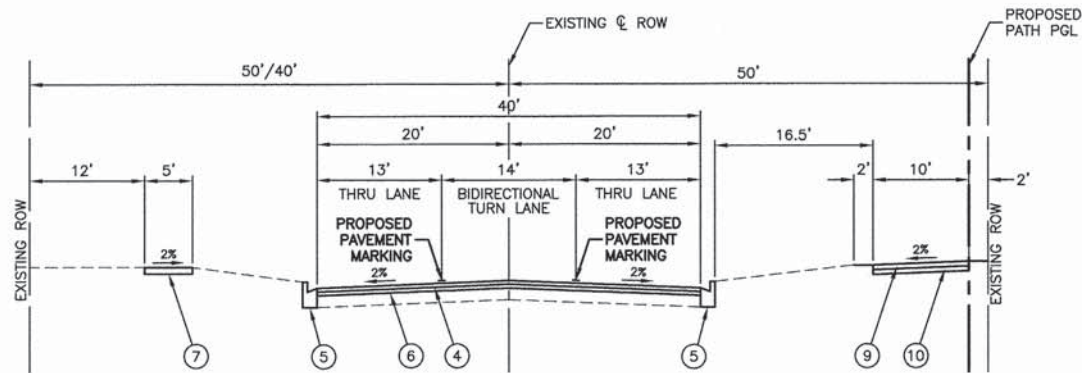
**EXISTING TYPICAL SECTION**  
OAK PARK AVENUE  
STA 70+78 TO STA 96+50



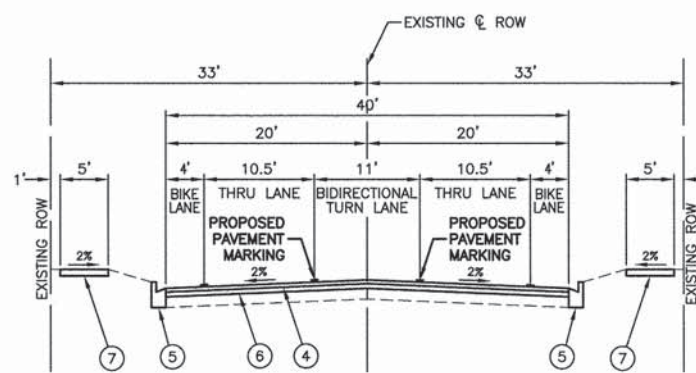
**EXISTING TYPICAL SECTION**  
OAK PARK AVENUE  
STA 96+50 TO STA 126+10



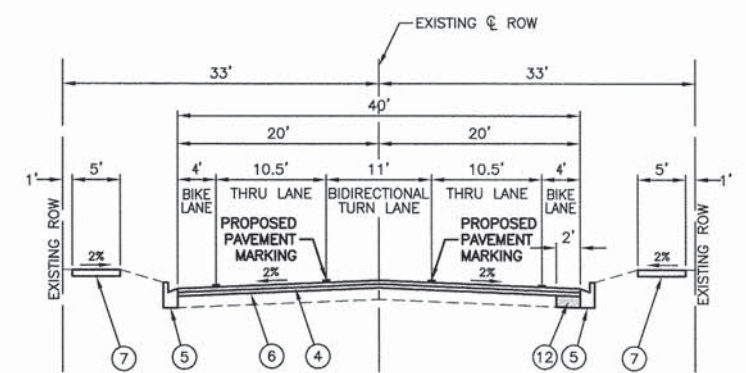
**EXISTING TYPICAL SECTION**  
OAK PARK AVENUE  
STA 126+10 TO STA 129+40.25



**PROPOSED TYPICAL SECTION**  
OAK PARK AVENUE  
STA 70+78 TO STA 96+50



**PROPOSED TYPICAL SECTION**  
OAK PARK AVENUE  
STA 96+50 TO STA 126+10



**PROPOSED TYPICAL SECTION**  
OAK PARK AVENUE  
STA 126+10 TO STA 129+40.25

**LEGEND**

- ① EXISTING CURB AND GUTTER TO BE REMOVED AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY THE ENGINEER.
- ② EXISTING HOT-MIX ASPHALT PAVEMENT
- ③ EXISTING PORTLAND CEMENT CONCRETE SIDEWALK TO BE REMOVED AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY THE ENGINEER.
- ④ HOT-MIX ASPHALT SURFACE COURSE, 1-1/2"
- ⑤ COMBINATION CONCRETE CURB AND GUTTER, AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY THE ENGINEER
- ⑥ 3/4" DEPTH OF HEATING, SCARIFICATION, ADDING REJUVENATING AGENT AND RECOMPACTING
- ⑦ PORTLAND CEMENT CONCRETE SIDEWALK, 5" AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY THE ENGINEER
- ⑧ HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL) - EDGE GRIND
- ⑨ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑩ AGGREGATE BASE COURSE, TYPE B, 6"
- ⑪ PAVEMENT REMOVAL (PAID FOR AS EARTH EXCAVATION)
- ⑫ HOT-MIX ASPHALT BASE COURSE WIDENING, 10"

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ NDES
RESURFACING	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm), 1-1/2"	4% @ 70 Gyr.
STREET RETURNS	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm), 1-1/2"	4% @ 70 Gyr.
LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 Gyr.
HOT-MIX ASPHALT - CURB PATCH	
HOT-MIX ASPHALT PATCH (HMA BINDER; IL-19.0mm, 10" (IN 4 LIFTS)	4% @ 70 Gyr.
DRIVEWAYS	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 1-3/4"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0mm, N50, 2-1/4"	4% @ 50 Gyr.
MULTI-USE PATH	
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2"	4% @ 50 Gyr.

**NOTES:**

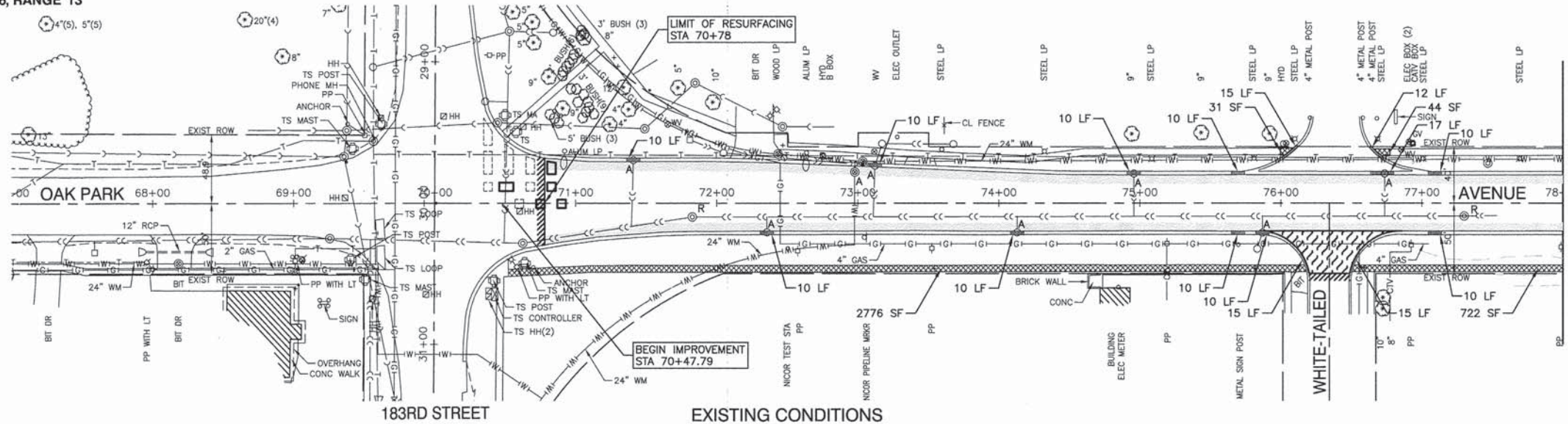
- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC" TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME = 13308-TYPX01 - IDOT P01

USER NAME =	DESIGNED -- JPH	REVISED --
	CHECKED -- PKB	REVISED --
PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

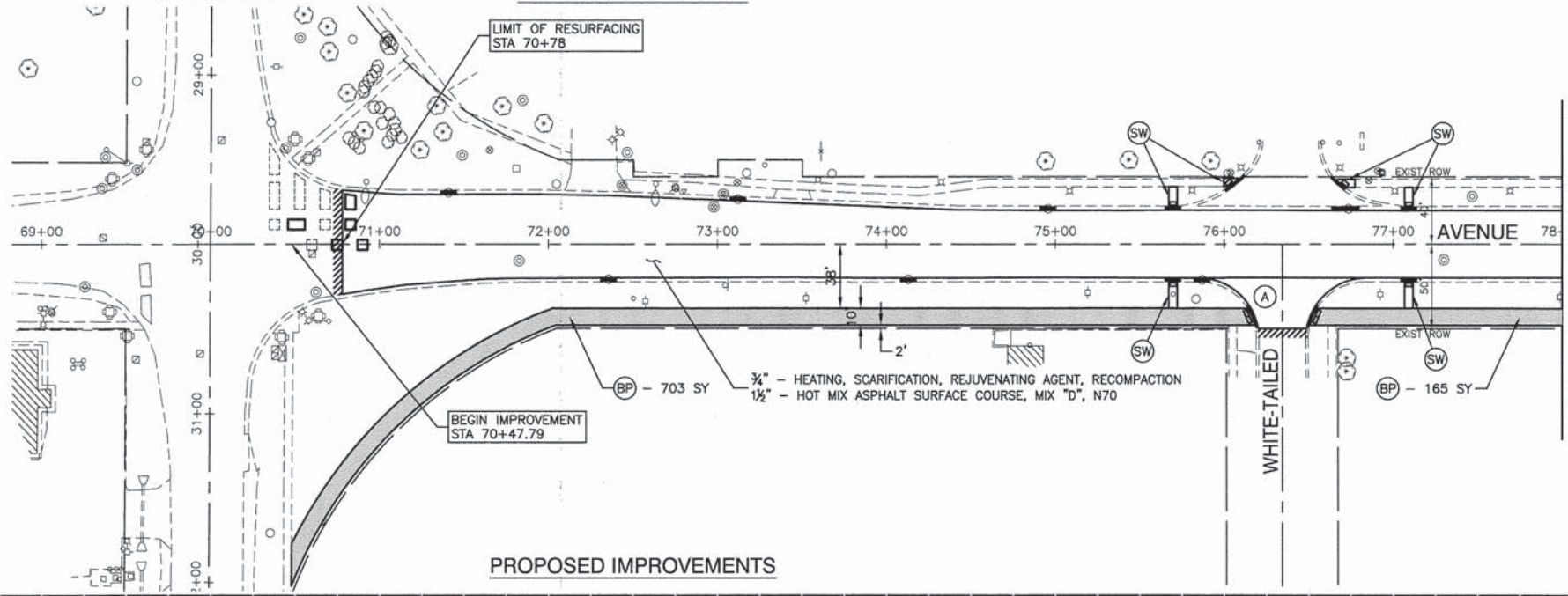
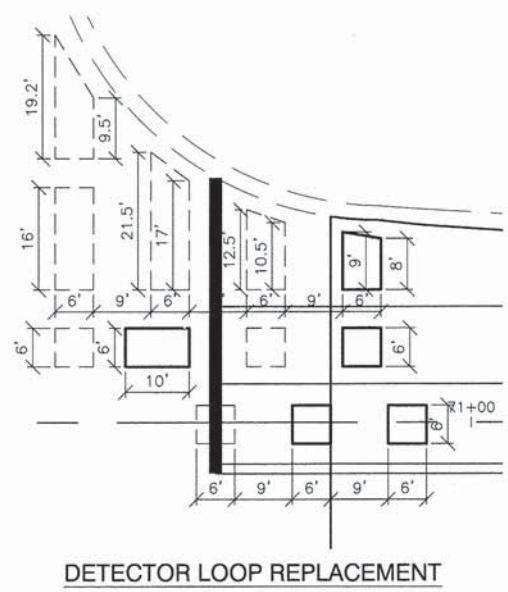
OAK PARK AVENUE ROADWAY IMPROVEMENTS TYPICAL SECTIONS		F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 4
SCALE: NONE	SHEET NO. 4 OF 35 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-4003 (249)



**NOTE**  
LOCATIONS OF ANY REPLACEMENT TREES SHALL BE DETERMINED BY THE RESIDENT ENGINEER.

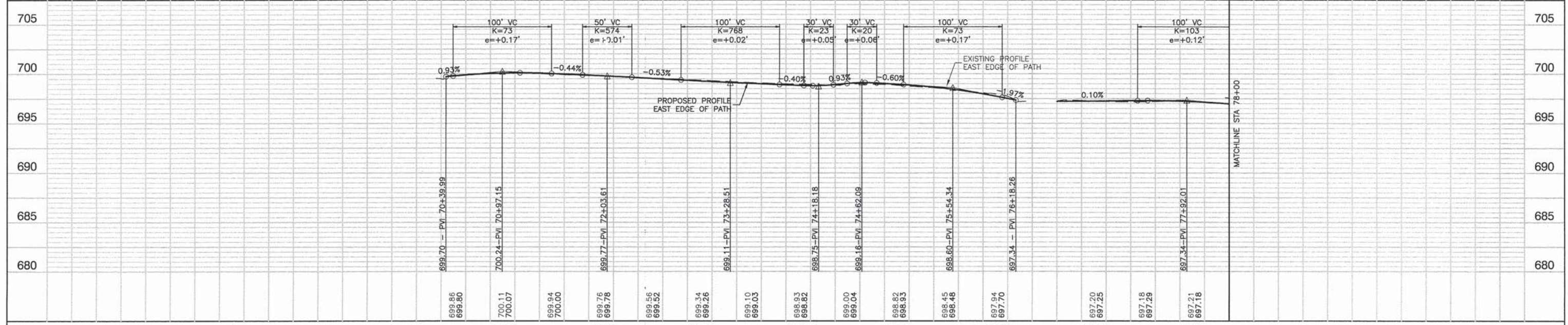
DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	CHECKED
	RET. OF WAY CHECKED
	ROAD FILE NAME
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	CHECKED
	BM. NOTED



**LEGEND**

- CONCRETE SIDEWALK REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
- DRIVEWAY PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- CURB REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT
- STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE RECONSTRUCTED
- EXISTING TREE REMOVAL
- HOT-MIX ASPHALT MULTI-USE PATH  
-AGGREGATE BASE COURSE, TYPE B, 6"  
-HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- P.C.C. SIDEWALK, 5"
- DETECTABLE WARNINGS



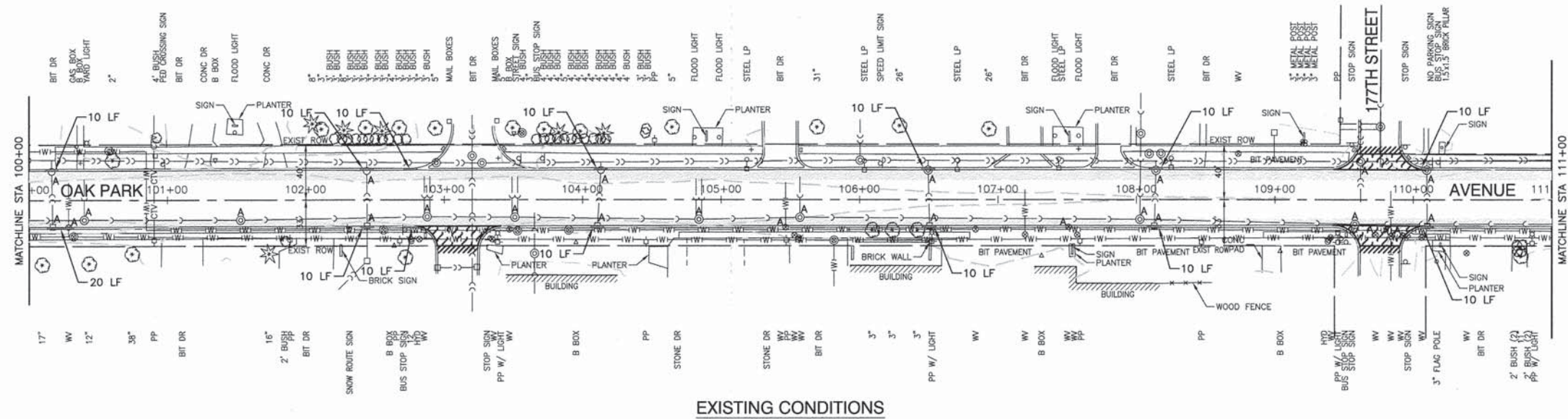
FILE NAME = 13308-PLPR-01 - IDOT PLR01	USER NAME =	DESIGNED - JPH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OAK PARK AVENUE ROADWAY IMPROVEMENTS PLAN & PROFILE			F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 5	
	PLOT SCALE =	CHECKED - PKB	REVISED -		SCALE: H 1"=50' V 1"=5'			SHEET NO. 5	OF 35 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-4003 (249)
	PLOT DATE = 12-02-13	DRAWN - RG	REVISED -										
		CHECKED - AG	REVISED -										



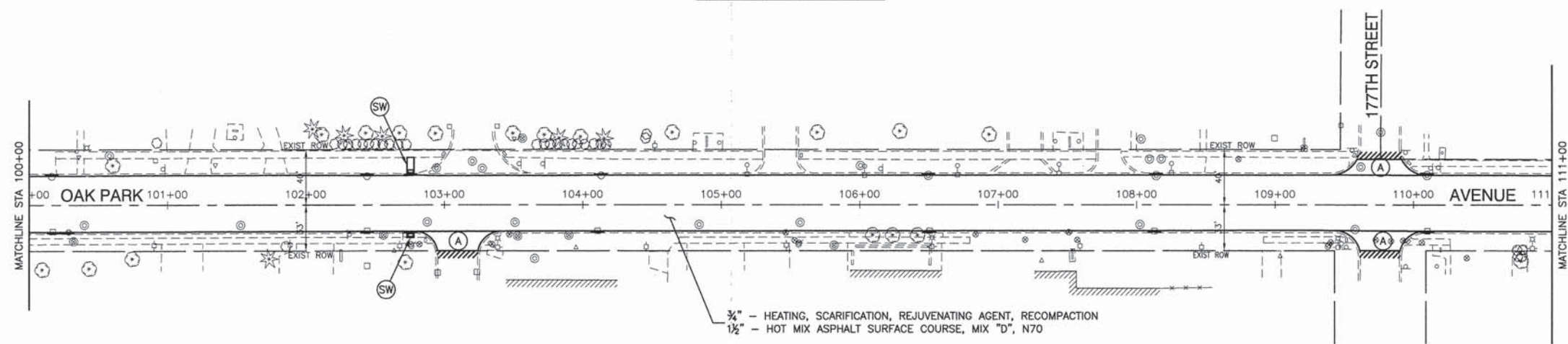


PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



LEGEND

- CONCRETE SIDEWALK REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
- DRIVEWAY PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- CURB REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT
- STRUCTURE TO BE ADJUSTED
- STRUCTURE TO BE RECONSTRUCTED
- EXISTING TREE REMOVAL
- HOT-MIX ASPHALT MULTI-USE PATH  
-AGGREGATE BASE COURSE, TYPE B, 6"  
-HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- P.C.C. SIDEWALK, 5"
- DETECTABLE WARNINGS

FILE NAME = 13308-PLPR-01 - IDOT PLPR04

USER NAME =	DESIGNED - JPH	REVISED -
	CHECKED - PKB	REVISED -
PLOT SCALE =	DRAWN - RG	REVISED -
PLOT DATE = 12-02-13	CHECKED - AG	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

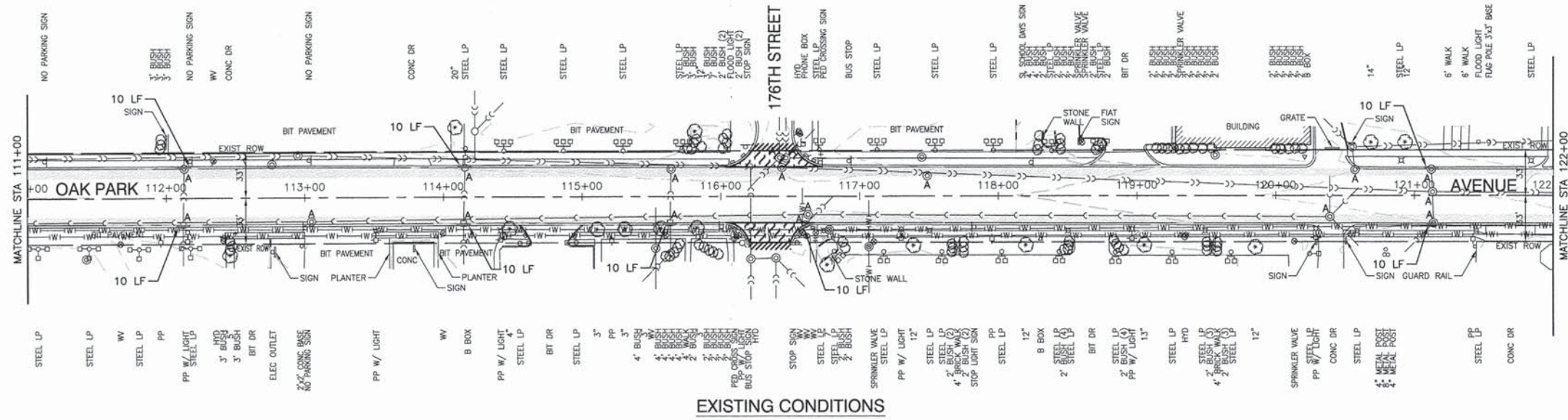
OAK PARK AVENUE ROADWAY IMPROVEMENTS PLAN & PROFILE	
SCALE: H 1"=50' V 1"=5'	SHEET NO. 8 OF 35 SHEETS
STA.	TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 8
CONTRACT NO. 61A01		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)		

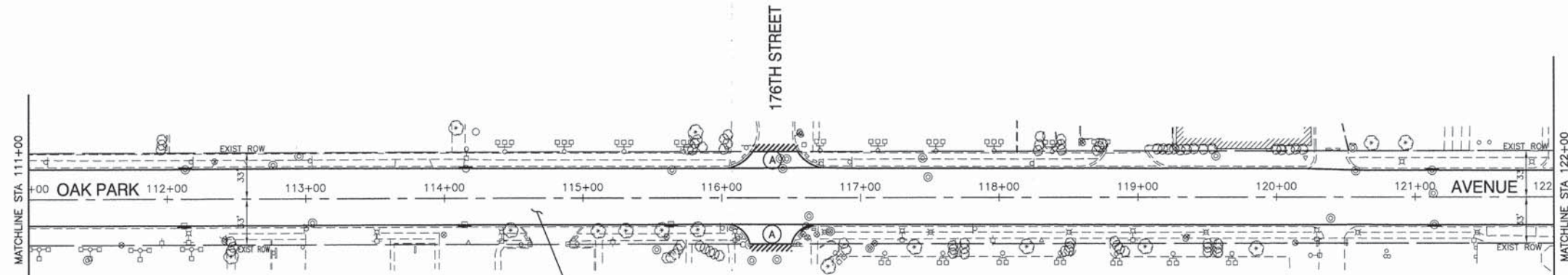


PLAN	SURVEYED	DATE
	ALIGNED	
NOTE BOOK NO.	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES	
NOTE BOOK NO.	CHECKED	
	B.M. NOTED	



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

3/4" - HEATING, SCARIFICATION, REJUVENATING AGENT, RECOMPACTION  
 1 1/2" - HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70

**LEGEND**

- CONCRETE SIDEWALK REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
- DRIVEWAY PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
- CURB REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT
- A** STRUCTURE TO BE ADJUSTED
- R** STRUCTURE TO BE RECONSTRUCTED
- EXISTING TREE REMOVAL
- (BP)** HOT-MIX ASPHALT MULTI-USE PATH  
 -AGGREGATE BASE COURSE, TYPE B, 6"  
 -HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- (A)** HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
 LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- (SW)** P.C.C. SIDEWALK, 5"
- DETECTABLE WARNINGS



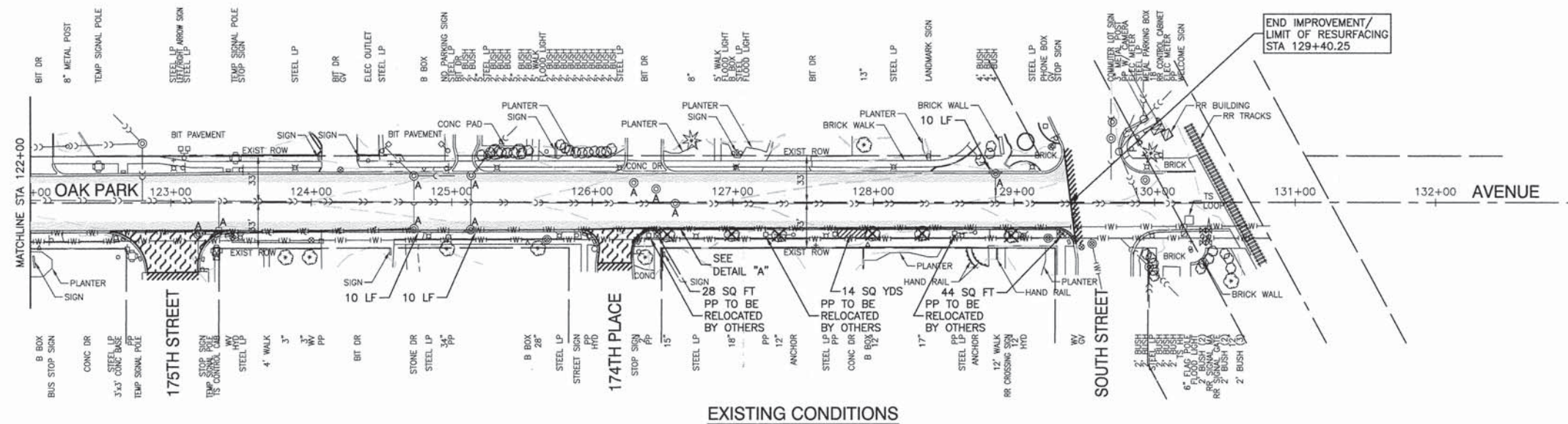
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USER NAME =	DESIGNED -- JPH	REVISED --
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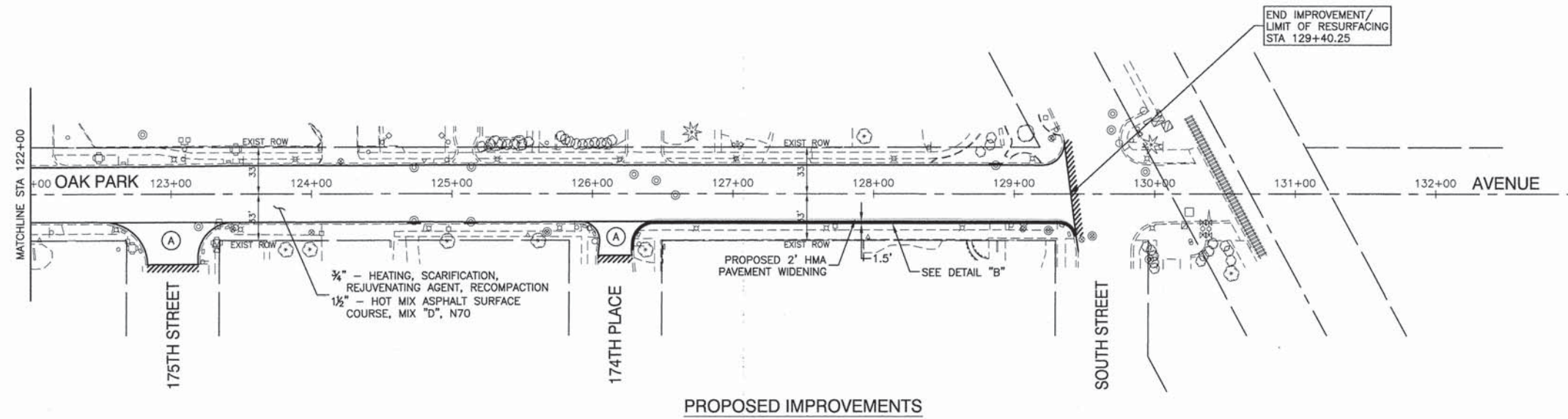
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE ROADWAY IMPROVEMENTS PLAN & PROFILE	
SCALE: H 1"=50' V 1"=5'	SHEET NO. 9 OF 35 SHEETS STA. TO STA.

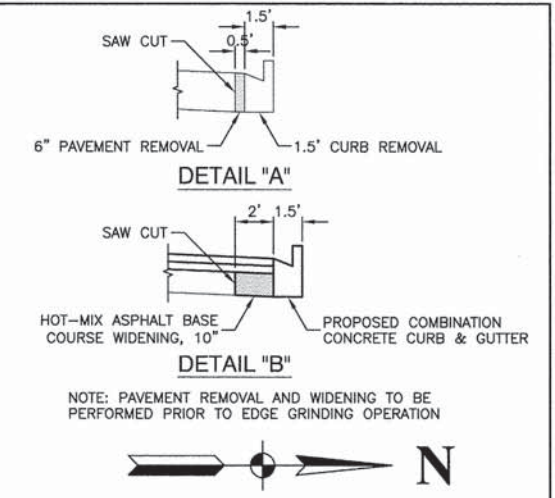
F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 9
CONTRACT NO. 61A01			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)	



EXISTING CONDITIONS



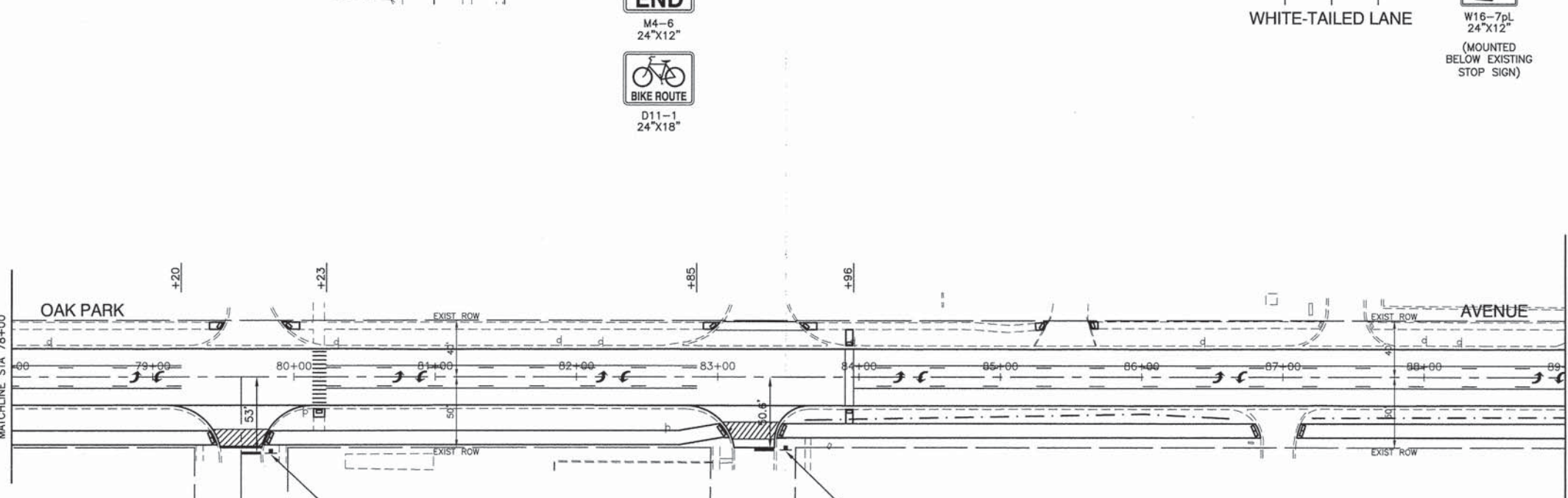
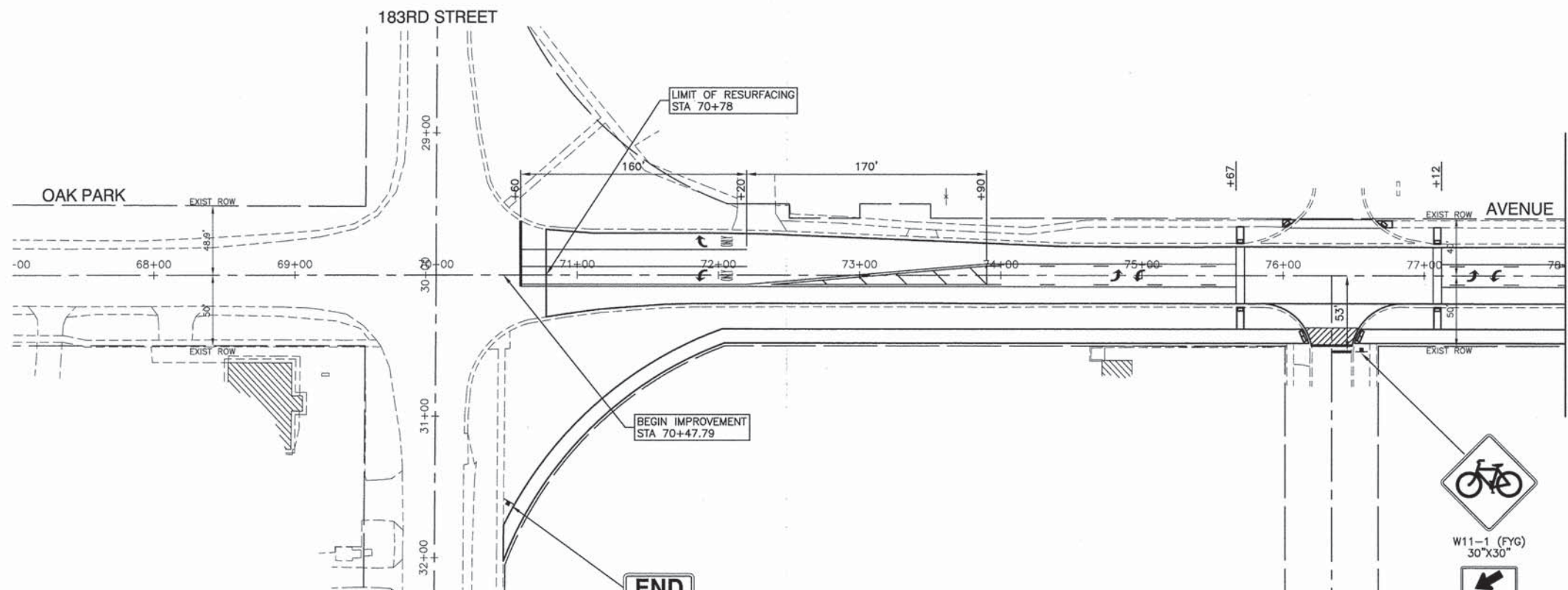
PROPOSED IMPROVEMENTS



- LEGEND**
- CONCRETE SIDEWALK REMOVAL
  - HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
  - DRIVEWAY PAVEMENT REMOVAL
  - HOT-MIX ASPHALT SURFACE REMOVAL, 2"
  - HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT
  - CURB REMOVAL
  - COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT
  - STRUCTURE TO BE ADJUSTED
  - STRUCTURE TO BE RECONSTRUCTED
  - EXISTING TREE REMOVAL
  - HOT-MIX ASPHALT MULTI-USE PATH  
-AGGREGATE BASE COURSE, TYPE B, 6"  
-HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
  - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
LEVELING BINDER (MACHINE METHOD), N70, 3/4"
  - P.C.C. SIDEWALK, 5"
  - DETECTABLE WARNINGS

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	BY	
	NOTE BOOK NO.	
	CAVD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	BY	
	NOTE BOOK NO.	
	E.M. NOTED	



**END**

M4-6  
24"x12"



D11-1  
24"x18"



W11-1 (FYG)  
30"x30"



W16-7pL  
24"x12"

(MOUNTED  
BELOW EXISTING  
STOP SIGN)

**NOTE**

ALL SIGNS SHALL BE INSTALLED ON NEW METAL POSTS, TYPE B, ACCORDING TO APPLICABLE HIGHWAY STANDARDS UNLESS OTHERWISE NOTED.

**STRIPING LEGEND**

MARKING	USES
THERMOPLASTIC PAVEMENT MARKING WHITE, 24"	ALL STOP BARS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4", SKIP DASH (10' LINE-30' SPACE)	LANE LINES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6"	CROSS WALK OUTSIDE LINES/ LEFT & RIGHT TURN LANES
THERMOPLASTIC PAVEMENT MARKING YELLOW, DOUBLE LINE, 4"	CENTERLINES
THERMOPLASTIC PAVEMENT MARKING YELLOW, LINE, 12" (20' C-C)	MEDIAN DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6" (2' LINE-6' SPACE/BLANK)	TURN LANE SKIP DASH
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 12" (2' C-C)	SCHOOL CROSS WALKS & CORNER DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LETTERS AND SYMBOLS	AS SHOWN
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4"	BIKE LANES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4" (2' LINE-6' SPACE)	BIKE LANES AS SHOWN

FILE NAME = 13308-PLPR-01 - PVMK01

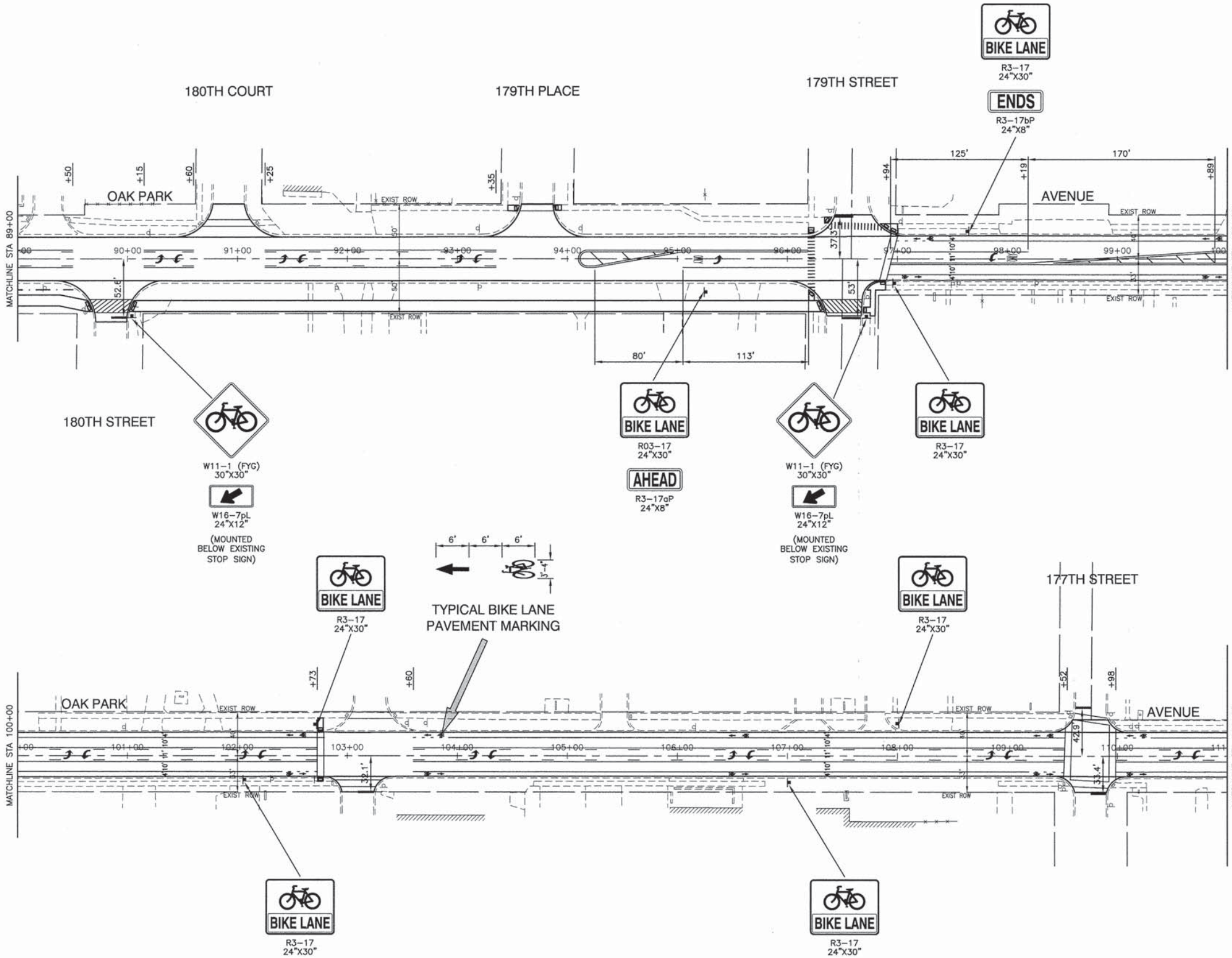
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PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
PAVEMENT MARKING & SIGNING PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	11
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A01	
FED. AID PROJECT CMM-4003 (249)				

SCALE: 1"=50' SHEET NO. 11 OF 35 SHEETS STA. TO STA.



**NOTE**  
 ALL SIGNS SHALL BE INSTALLED ON NEW METAL POSTS, TYPE B, ACCORDING TO APPLICABLE HIGHWAY STANDARDS UNLESS OTHERWISE NOTED.

**STRIPING LEGEND**

MARKING	USES
THERMOPLASTIC PAVEMENT MARKING WHITE, 24"	ALL STOP BARS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4", SKIP DASH (10' LINE-30' SPACE)	LANE LINES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6"	CROSS WALK OUTSIDE LINES/ LEFT & RIGHT TURN LANES
THERMOPLASTIC PAVEMENT MARKING YELLOW, DOUBLE LINE, 4"	CENTERLINES
THERMOPLASTIC PAVEMENT MARKING YELLOW, LINE, 12" (20' C-C)	MEDIAN DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6" (2' LINE-6' SPACE/BLANK)	TURN LANE SKIP DASH
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 12" (2' C-C)	SCHOOL CROSS WALKS & CORNER DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LETTERS AND SYMBOLS	AS SHOWN
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4"	BIKE LANES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4" (2' LINE-6' SPACE)	BIKE LANES AS SHOWN

FILE NAME = 13308-PLPR-01 - PVMK02

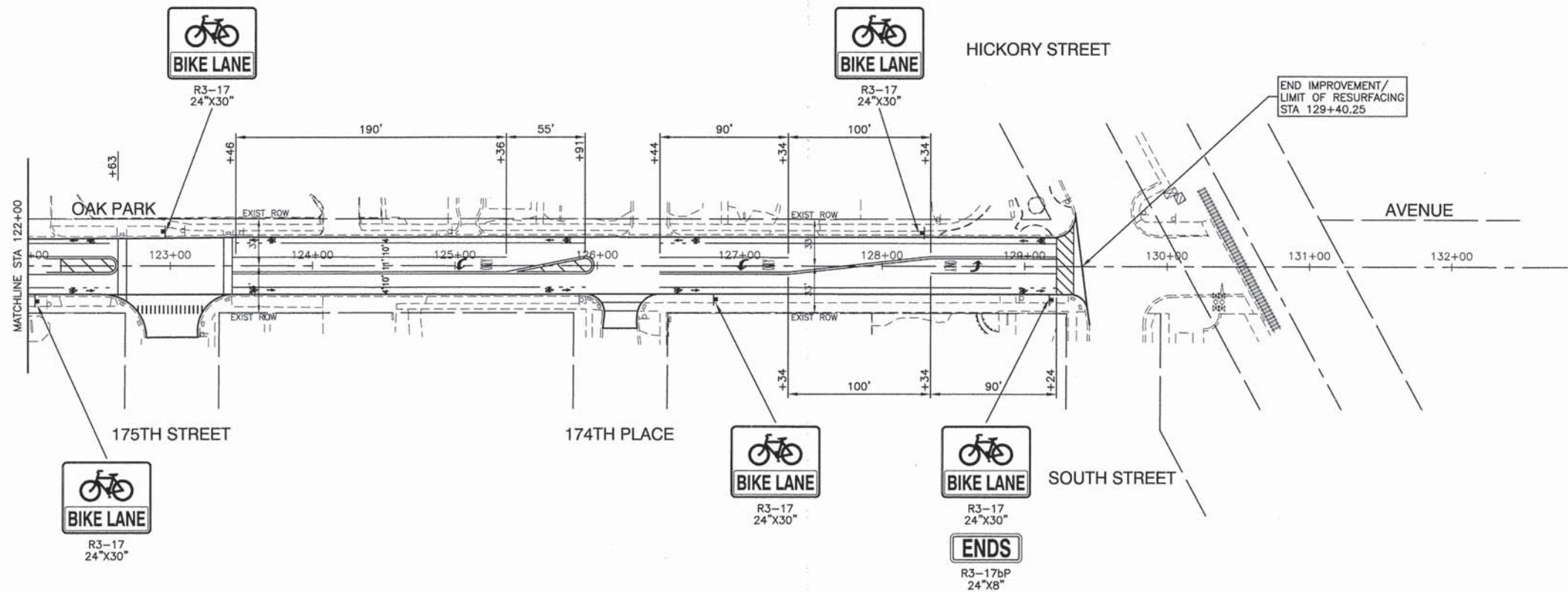
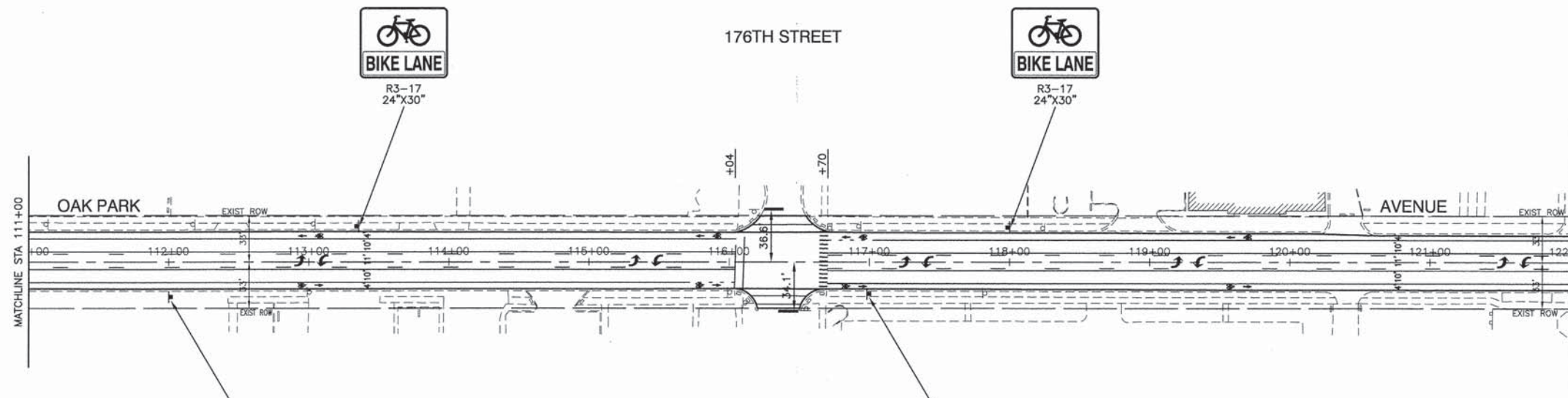
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PLOT SCALE =	DRAWN -- RG	REVISED --
PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
 ROADWAY IMPROVEMENTS  
 PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=50' SHEET NO. 12 OF 35 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	12
CONTRACT NO. 61A01				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-4003 (249)	



**NOTE**  
ALL SIGNS SHALL BE INSTALLED ON NEW METAL POSTS, TYPE B, ACCORDING TO APPLICABLE HIGHWAY STANDARDS UNLESS OTHERWISE NOTED.

**STRIPING LEGEND**

MARKING	USES
THERMOPLASTIC PAVEMENT MARKING WHITE, 24"	ALL STOP BARS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4", SKIP DASH (10' LINE-30' SPACE)	LANE LINES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6"	CROSS WALK OUTSIDE LINES/ LEFT & RIGHT TURN LANES
THERMOPLASTIC PAVEMENT MARKING YELLOW, DOUBLE LINE, 4"	CENTERLINES
THERMOPLASTIC PAVEMENT MARKING YELLOW, LINE, 12" (20' C-C)	MEDIAN DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 6" (2' LINE-6' SPACE/BLANK)	TURN LANE SKIP DASH
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 12" (2' C-C)	SCHOOL CROSS WALKS & CORNER DIAGONALS
THERMOPLASTIC PAVEMENT MARKING WHITE, LETTERS AND SYMBOLS	AS SHOWN
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4"	BIKE LANES
THERMOPLASTIC PAVEMENT MARKING WHITE, LINE, 4" (2' LINE-6' SPACE)	BIKE LANES AS SHOWN

FILE NAME = 13308-PLPR-01 - PVMK03

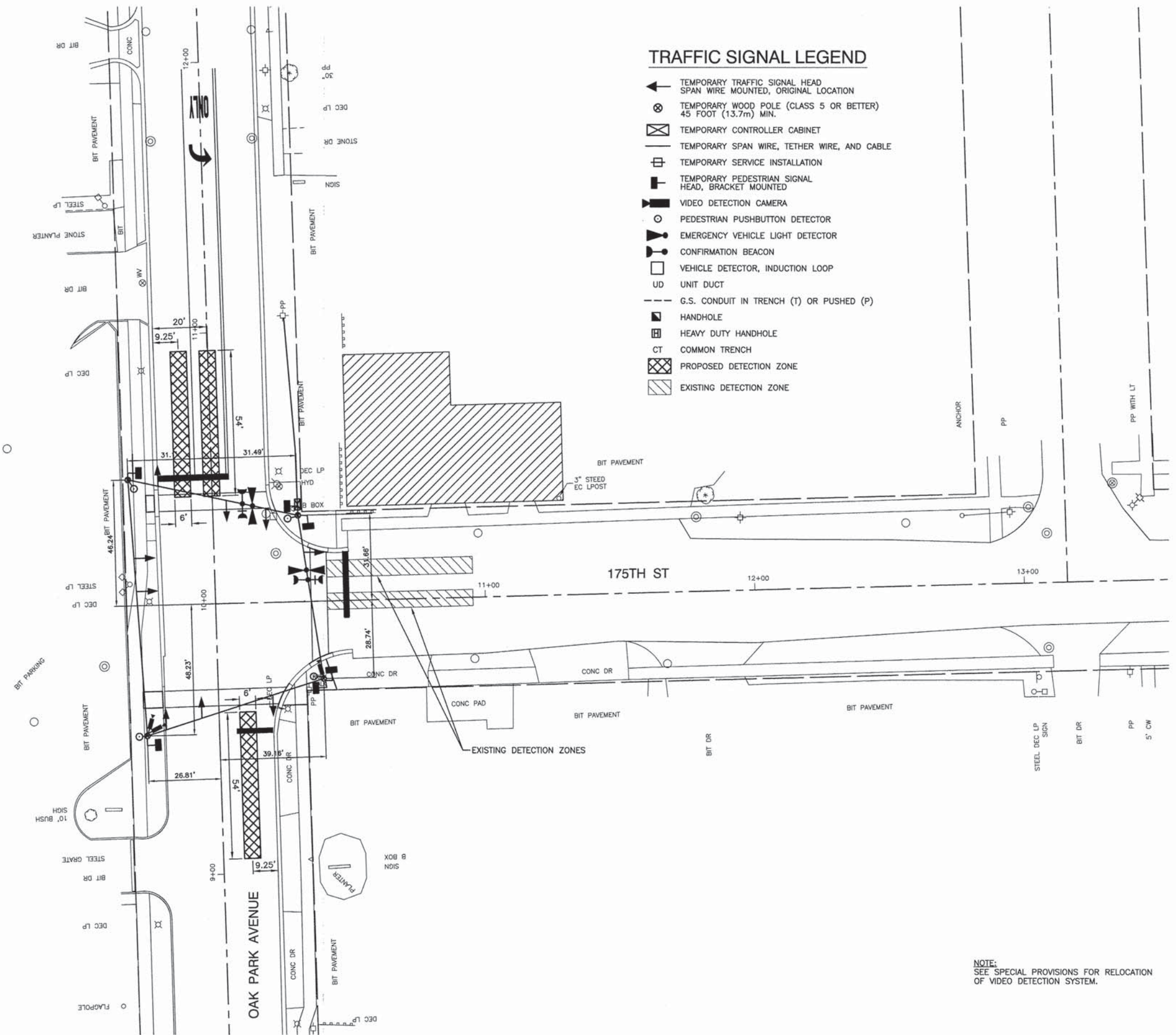
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PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
PAVEMENT MARKING & SIGNING PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	13
CONTRACT NO. 61A01				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				

SCALE: 1"=50' SHEET NO. 13 OF 35 SHEETS STA. TO STA.



**TRAFFIC SIGNAL LEGEND**

- ← TEMPORARY TRAFFIC SIGNAL HEAD  
SPAN WIRE MOUNTED, ORIGINAL LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER)  
45 FOOT (13.7m) MIN.
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- 📹 VIDEO DETECTION CAMERA
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- 🚚 EMERGENCY VEHICLE LIGHT DETECTOR
- 📡 CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ⬮ HANDHOLE
- ⬮ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- ▨ PROPOSED DETECTION ZONE
- ▨ EXISTING DETECTION ZONE

NOTE:  
SEE SPECIAL PROVISIONS FOR RELOCATION  
OF VIDEO DETECTION SYSTEM.

FILE NAME = 13308-SGNL-01 - SGNL
USER NAME =
PLOT SCALE =
PLOT DATE = 12-02-13

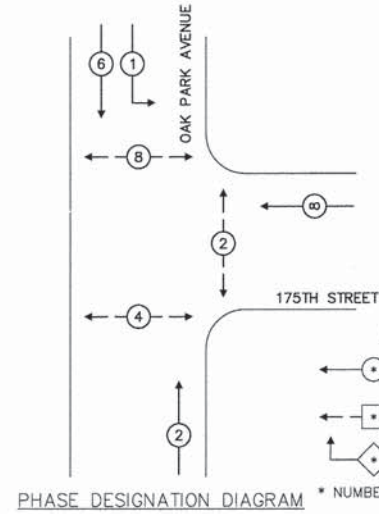
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CHECKED — PKB	REVISED —
DRAWN — JAK/RG	REVISED —
CHECKED — AG	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>OAK PARK AVENUE ROADWAY IMPROVEMENTS TRAFFIC SIGNAL MODIFICATION PLAN</b>	
SCALE: 1"=20'	SHEET NO. 14 OF 35 SHEETS
STA. _____	TO STA. _____

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 14
CONTRACT NO. 61A01				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND**

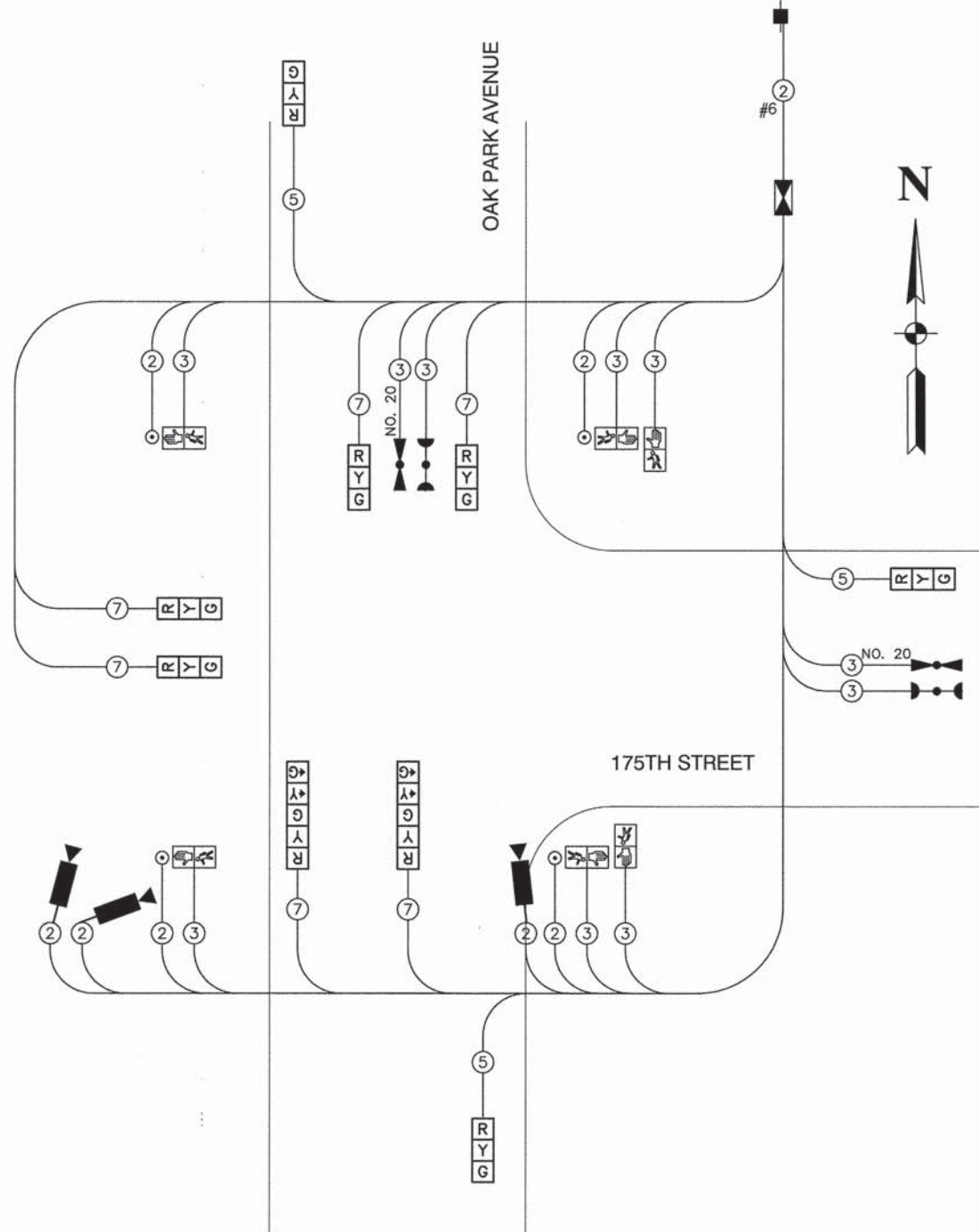
- DUAL ENTRY PHASE
  - SINGLE ENTRY PHASE
  - ◇ OVERLAP
- \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

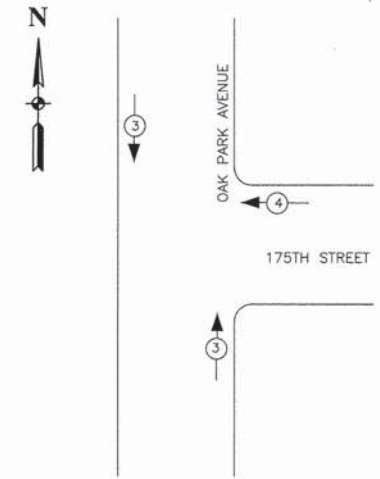
**CABLE DIAGRAM LEGEND**

- Ⓜ TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ⊠ TEMPORARY CONTROLLER CABINET
- ⊕ TEMPORARY SERVICE INSTALLATION
- ② INDICATES NUMBER OF CONDUCTORS. ALL CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▶ EMERGENCY VEHICLE LIGHT DETECTOR
- ◀ CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- Ⓜ 12" PEDESTRIAN SIGNAL SECTION

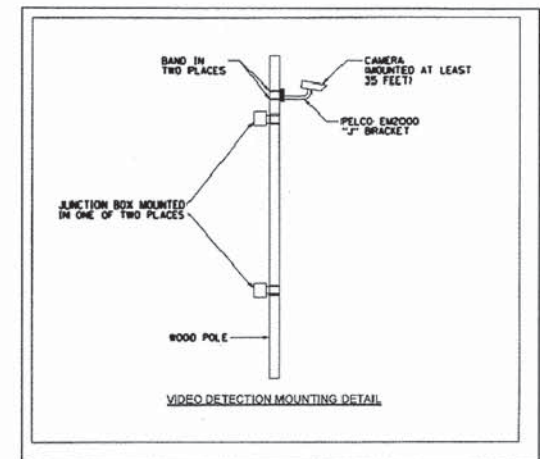
**EXISTING CABLE PLAN**



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑↑	←



**FOR INFORMATION ONLY**

FILE NAME = 13308-CBLE-01 - P01

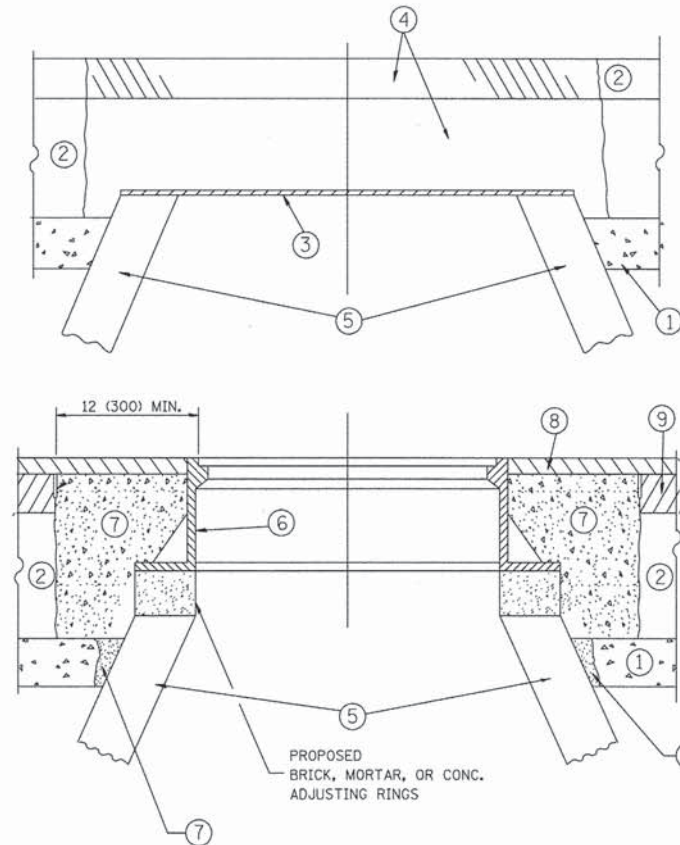
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PLOT SCALE =	DRAWN -- JAK/RG	REVISED --
PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CABLE PLAN

SCALE: NONE SHEET NO. 15 OF 35 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	15
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A01	
FED. AID PROJECT CMM-4003 (249)				



**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 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.

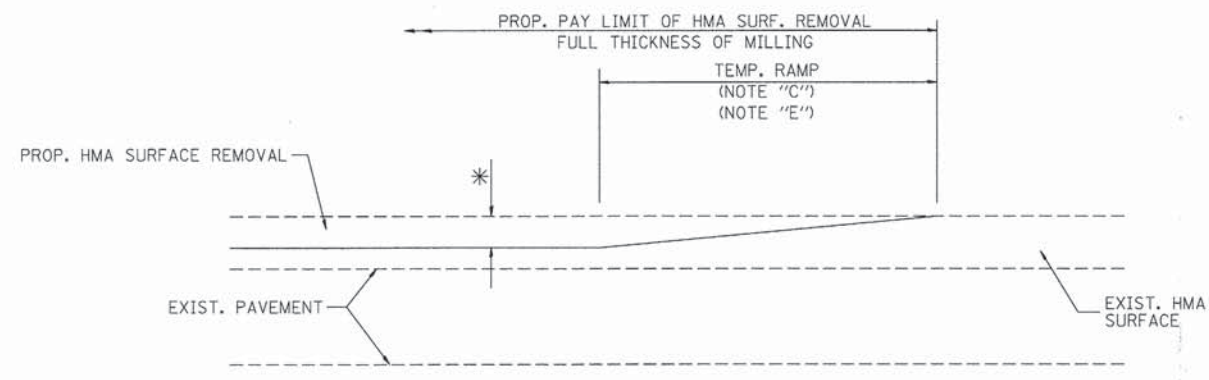
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

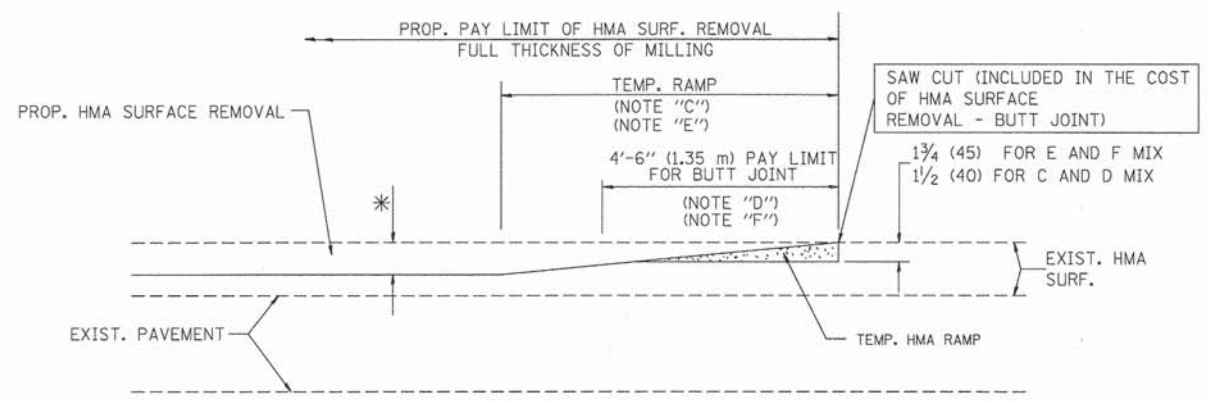
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		DATE - 10-25-94	REVISED - R. BORO 12-06-11									





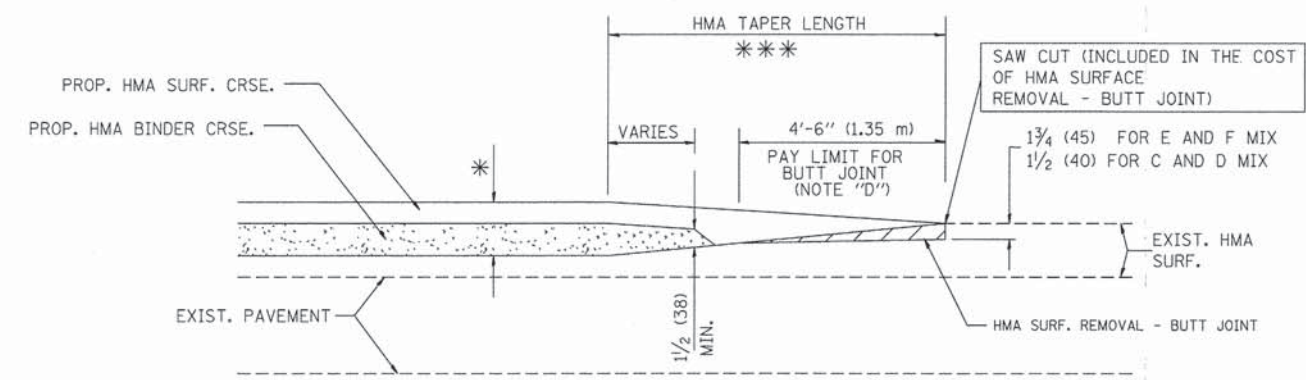
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

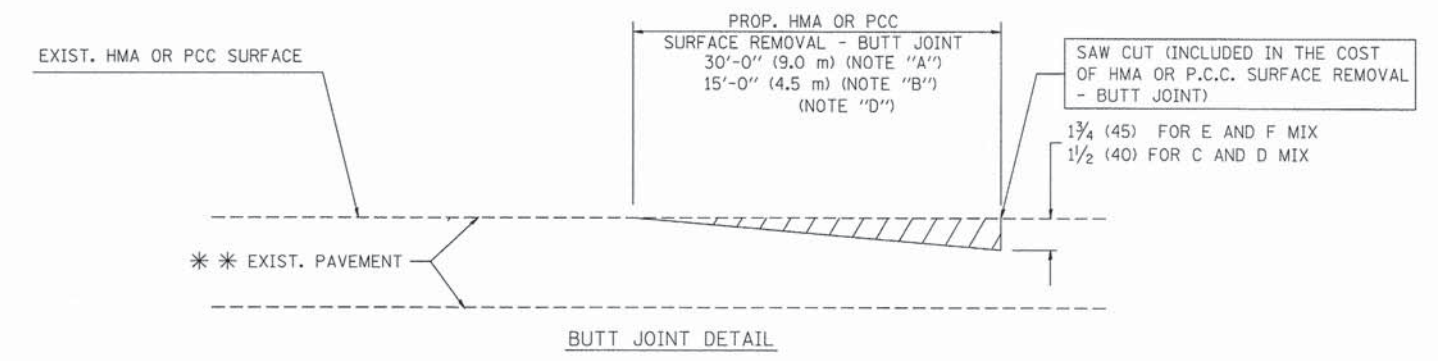


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

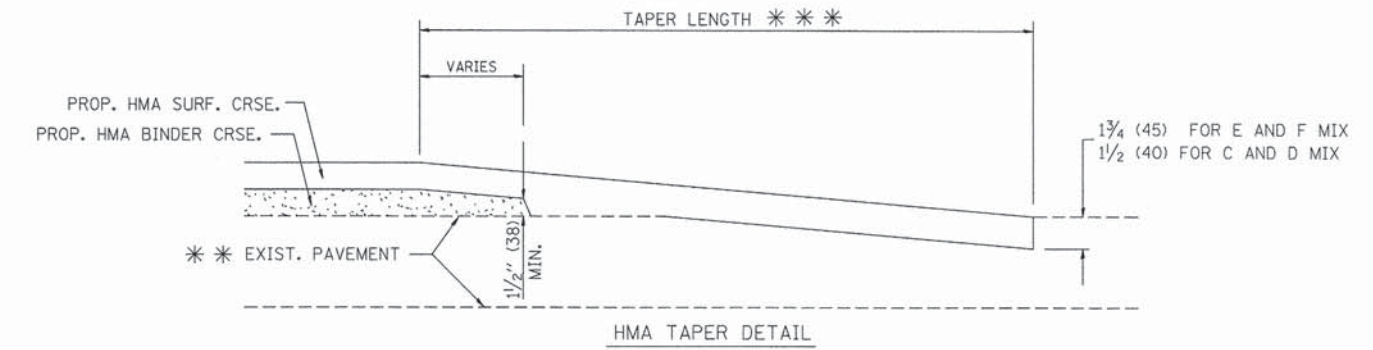
OPTION 2  
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



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".

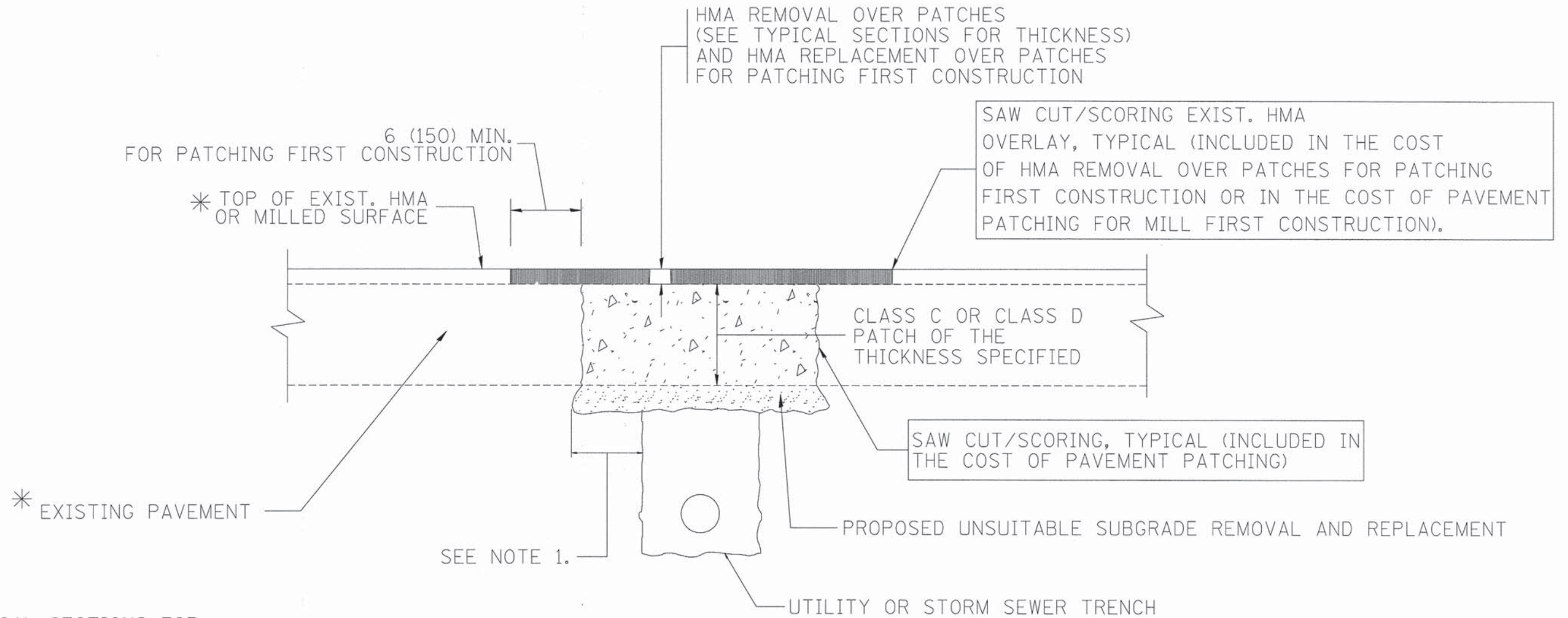
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\bd32.dgn	USER NAME = geglanoht	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 17 OF 35 SHEETS
STA.	TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 17
BD400-05 BD32		CONTRACT NO. 61A01		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				



\* 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 = c:\projects\diststd22x34\bd22.dgn	USER NAME = bawardl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
		DRAWN -	REVISED - R. BORO 01-01-07
	PLLOT SCALE = 58.0000' / IN.	CHECKED -	REVISED - R. BORO 09-04-07
	PLLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

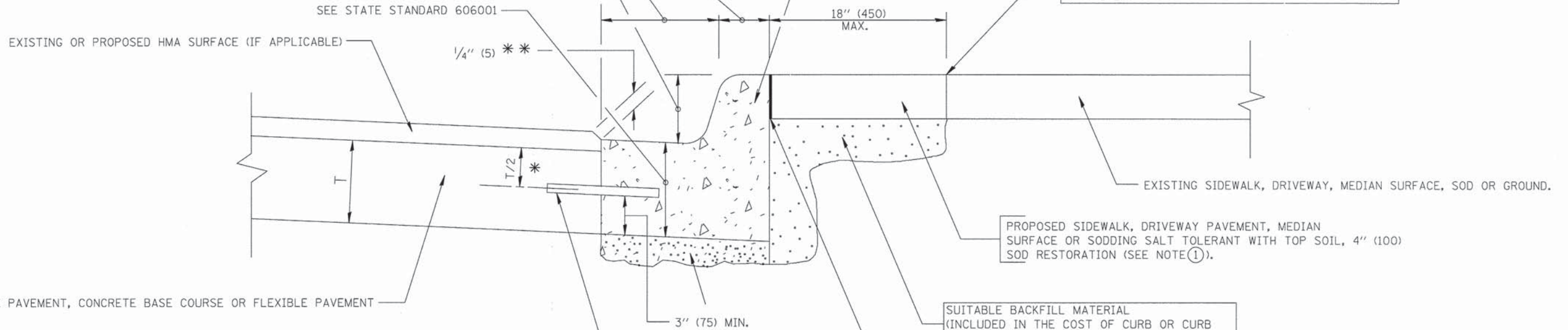
DISTRICT ONE PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			
SCALE: NONE	SHEET NO. 18 OF 35 SHEETS	STA.	TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 18
BD400-04 (BD-22)			CONTRACT NO. 61A01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				

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: 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.

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 USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

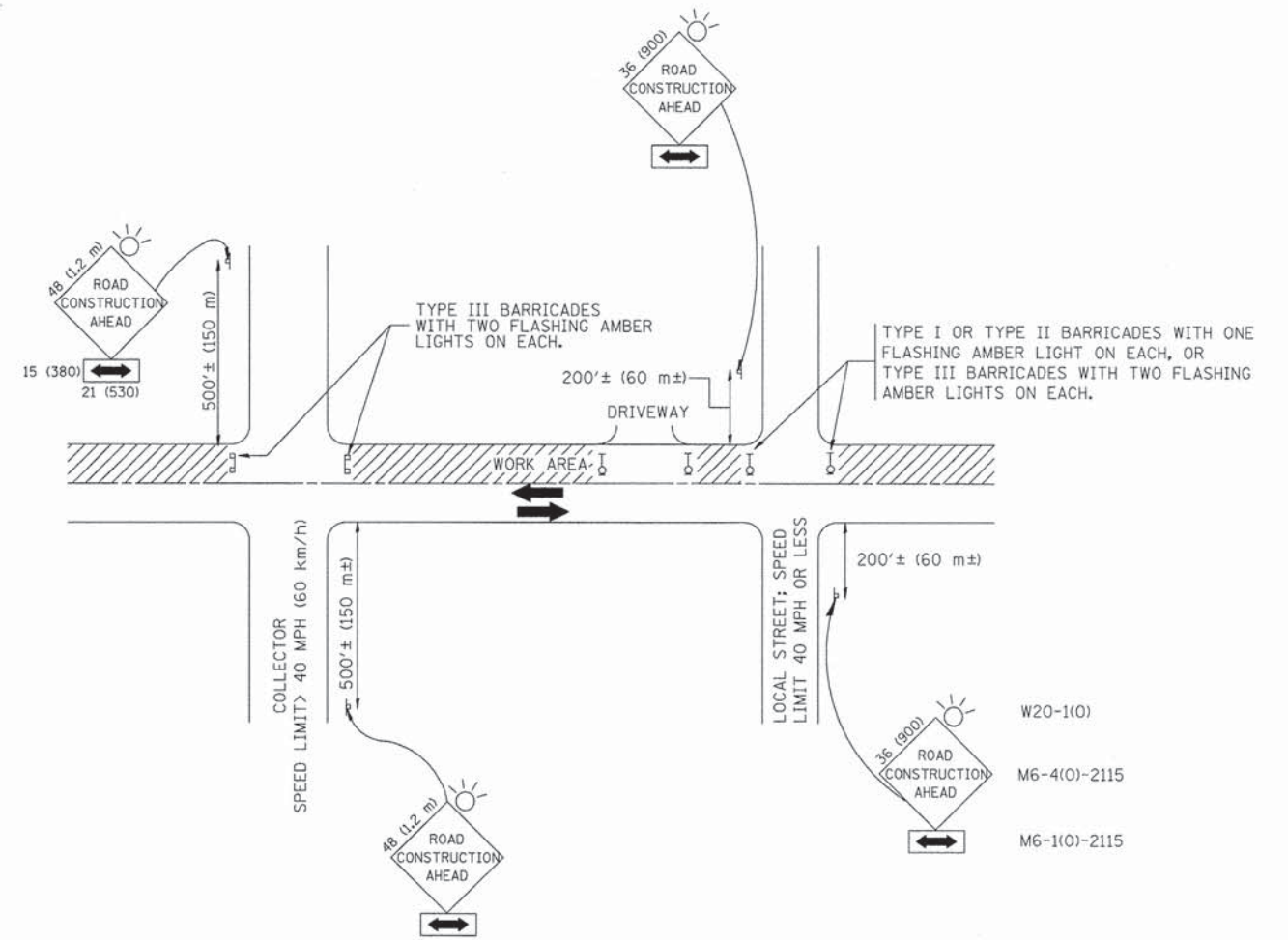
**BASIS OF PAYMENT:**

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

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivakosgn	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\pwidot\drivakosgn\d0106315\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97			2774	13-00115-00-RS	COOK	35	19	
PLOT SCALE = 50.000' / IN.		CHECKED -	REVISED - M. GOMEZ 01-22-01			<b>BD600-06 (BD-24)</b>		CONTRACT NO. 61A01			
PLOT DATE = 12/15/2009		DATE - 03-11-94	REVISED - R. BORO 12-15-09			SCALE: NONE	SHEET NO. 19 OF 35 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)	



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

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 AND FLAG 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. 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).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

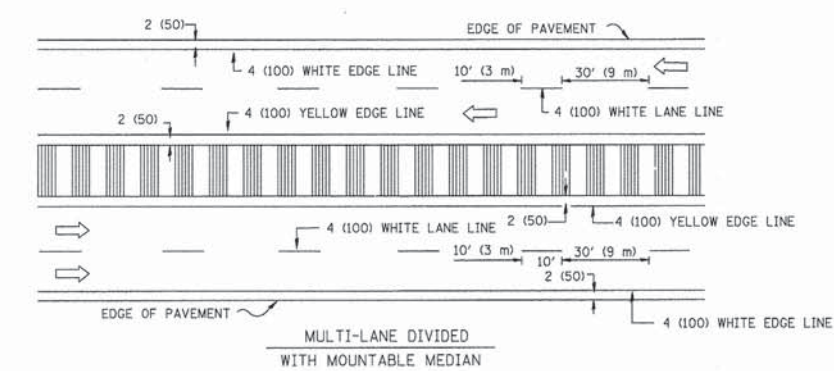
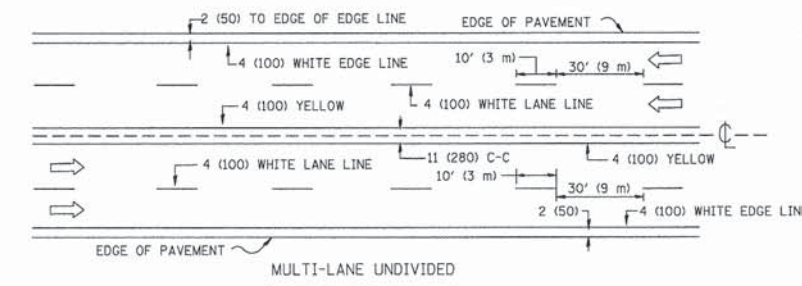
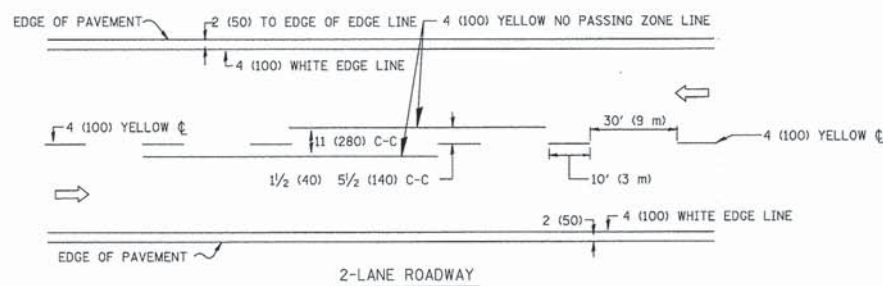
FILE NAME = W:\diststd\22x34\tol10.dgn	USER NAME = gagianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

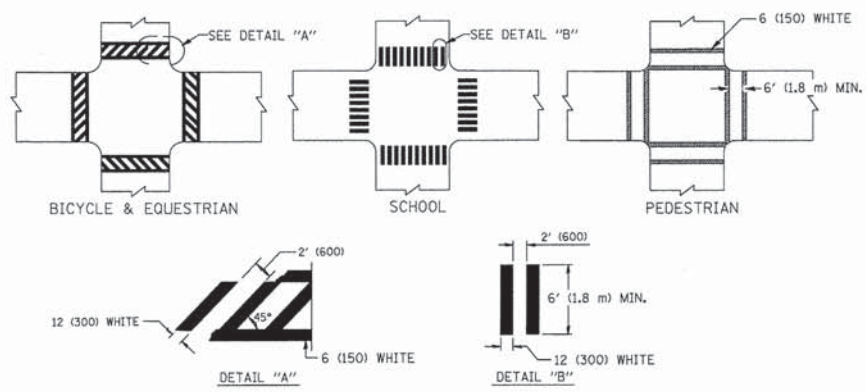
SCALE: NONE SHEET NO. 20 OF 35 SHEETS STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 20
TC-10			CONTRACT NO. 61A01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				

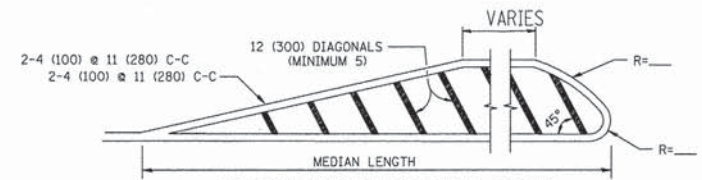
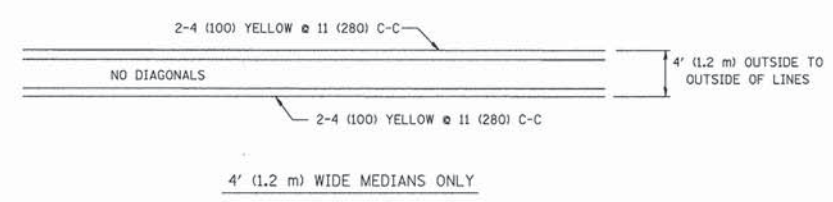


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



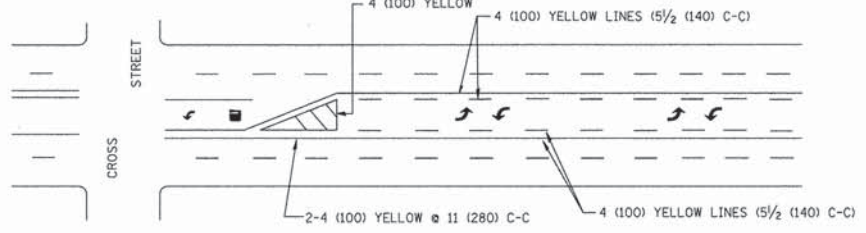
TYPICAL CROSSWALK MARKING



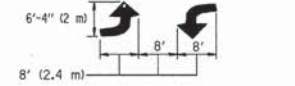
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))

MEDIANS OVER 4' (1.2 m) WIDE

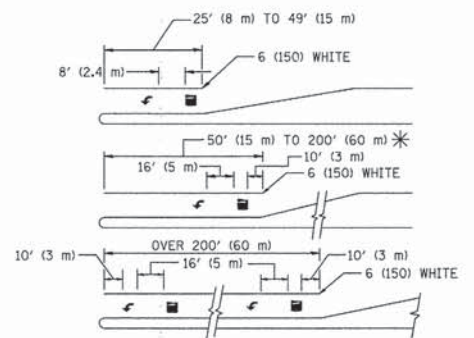


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

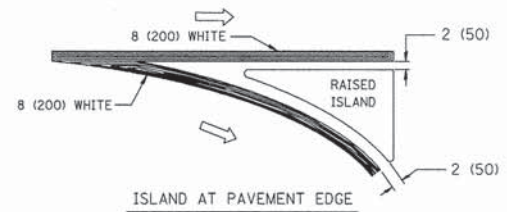
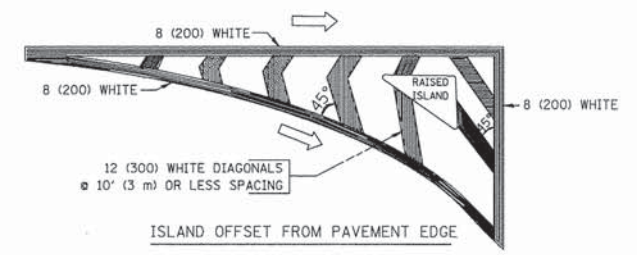


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
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	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))

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 = c:\pwworkspace\drivakosgn\d0108315\103.dgn

USER NAME = drivakosgn

DESIGNED - EVERS

REVISED - T. RAMMACHER 10-27-94

PLOT SCALE = 50,000 / IN.

CHECKED -

REVISED - C. JUCIUS 09-09-09

PLOT DATE = 9/9/2009

DATE - 03-19-90

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

SHEET NO. 21 OF 35 SHEETS

STA. TO STA.

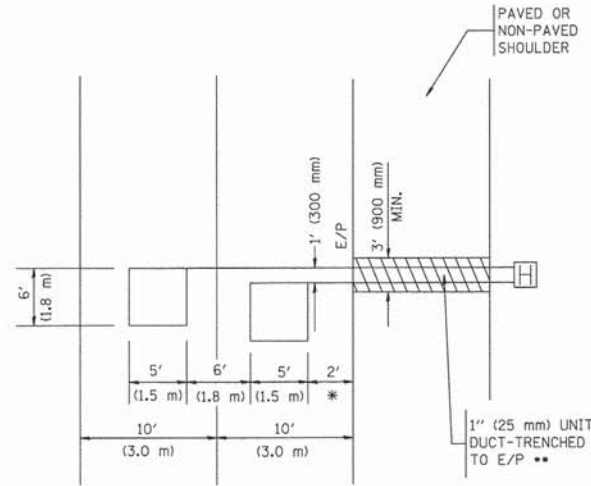
F.A.U. SHEETS SECTION COUNTY TOTAL SHEETS SHEET NO.  
2774 13-00115-00-RS COOK 35 21

TC-13 CONTRACT NO. 61A01

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)

**LOOPS NEXT TO SHOULDERS**

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

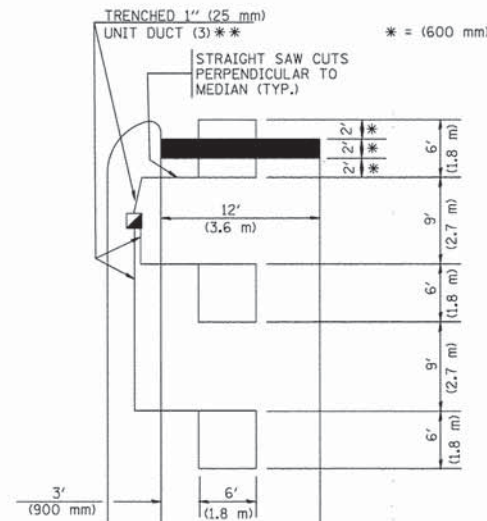


\* = (600 mm)

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

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

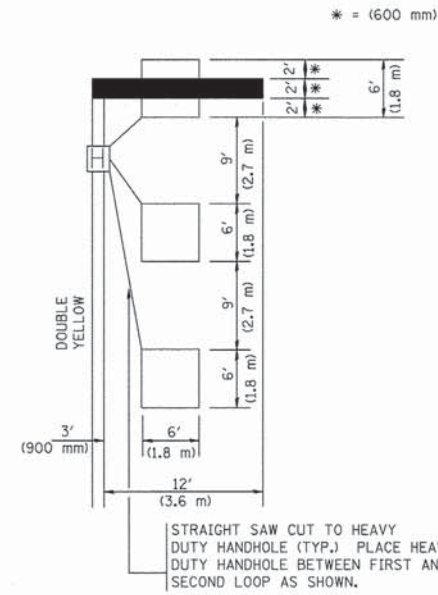
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

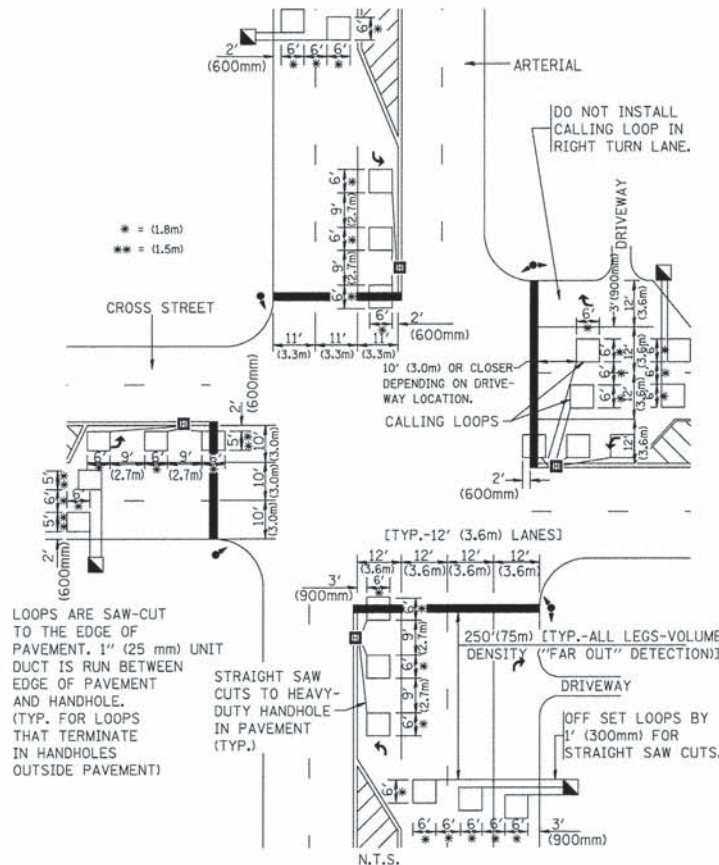
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



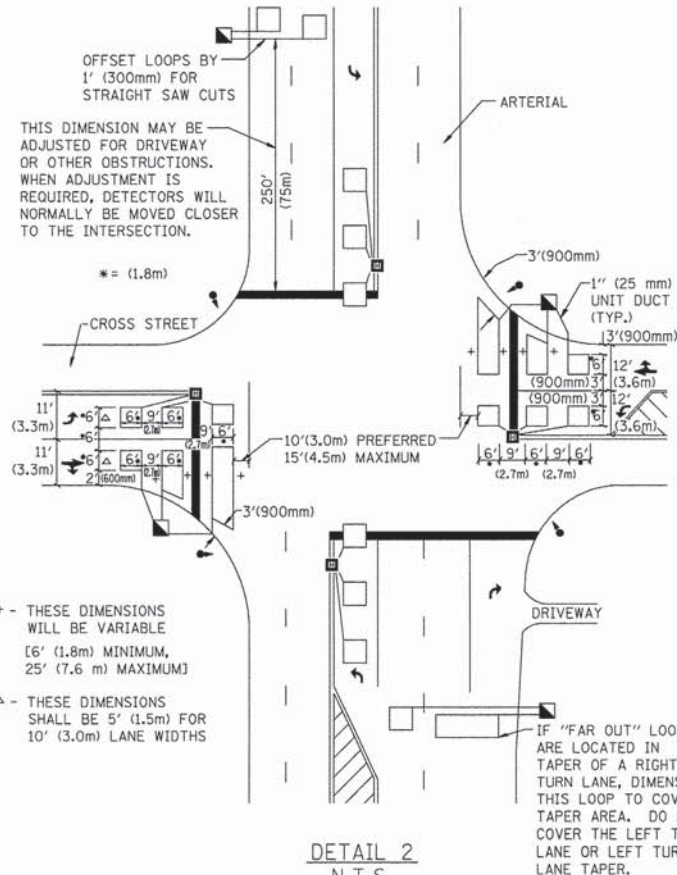
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1  
N.T.S.

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



DETAIL 2  
N.T.S.

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

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

**NOTE:**

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

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

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USER NAME = geglino

DESIGNED -

REVISED -

PLOT SCALE = 58.0000' / IN.

DRAWN -

REVISED -

PLOT DATE = 1/4/2008

CHECKED - R.K.F.

REVISED -

DATE -

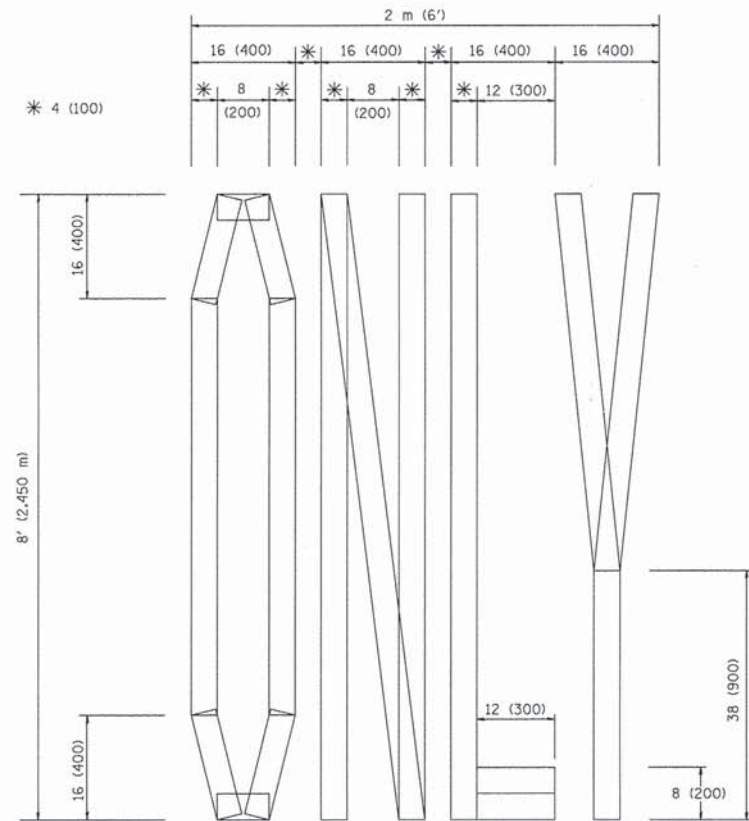
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

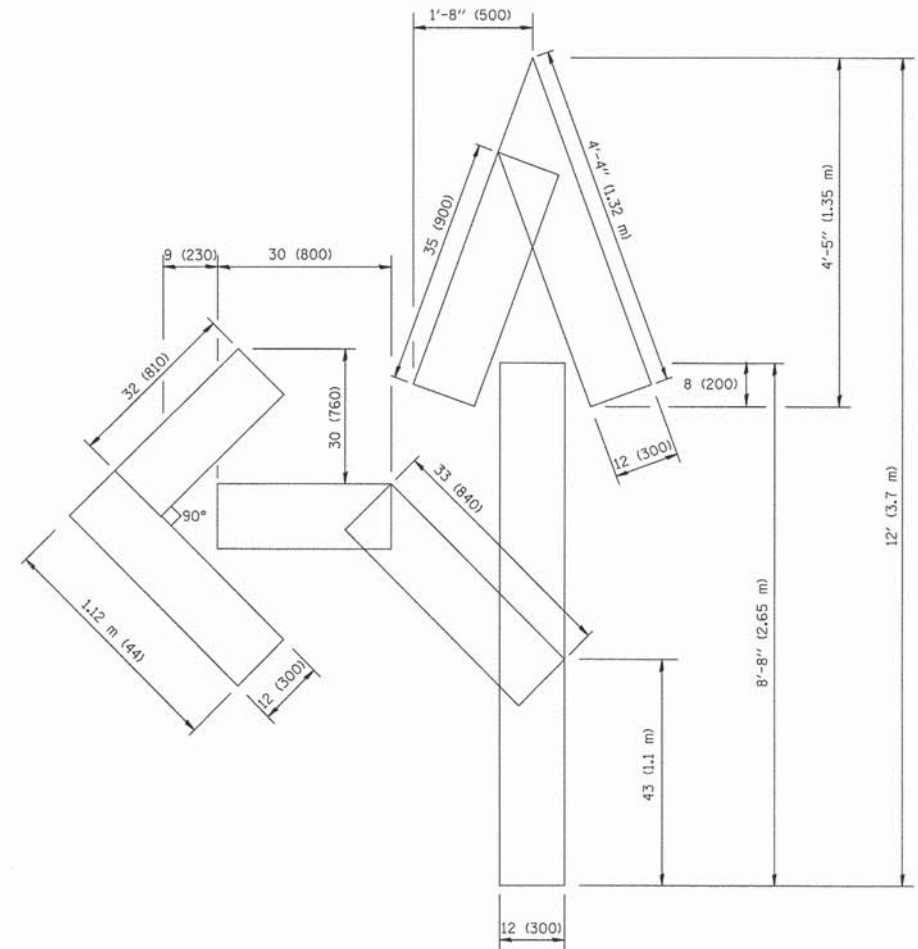
DISTRICT ONE - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING

SCALE: NONE SHEET NO. 22 OF 35 SHEETS STA. TO STA.

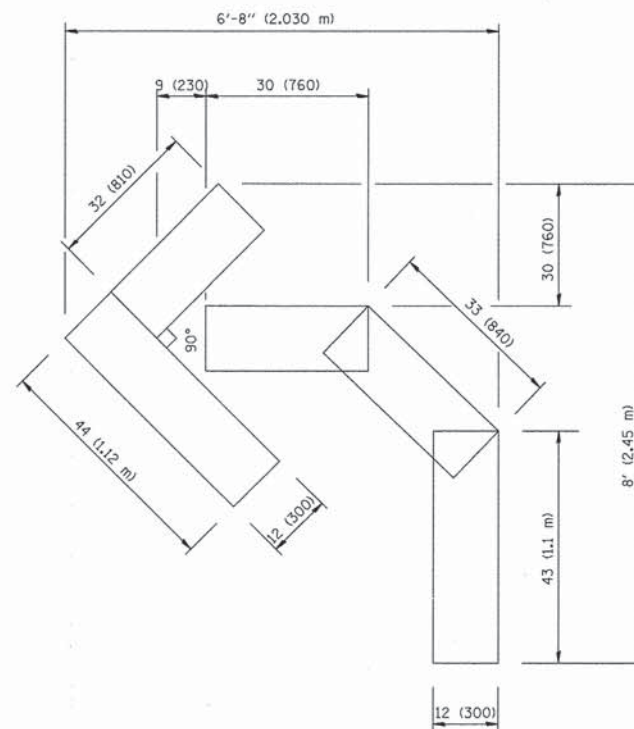
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	22
TS-07		CONTRACT NO. 61A01		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-4003 (249)		



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME =  
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PLOT DATE = 1/4/2008	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - PAVEMENT MARKING LETTERS AND  
 SYMBOLS FOR TRAFFIC STAGING

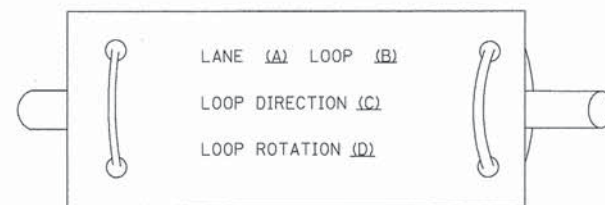
SCALE: NONE SHEET NO. 23 OF 35 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	23
TC-16			CONTRACT NO. 61A01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				

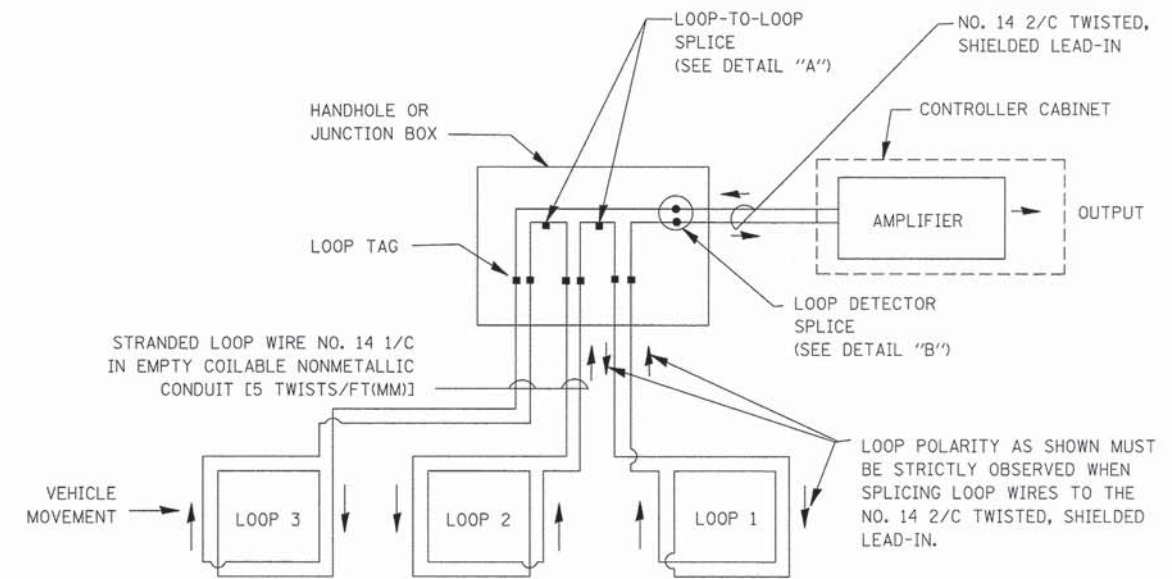
## LOOP DETECTOR NOTES

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

### LOOP LEAD-IN CABLE TAG

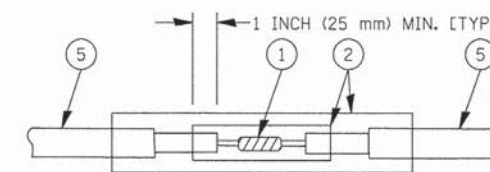


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

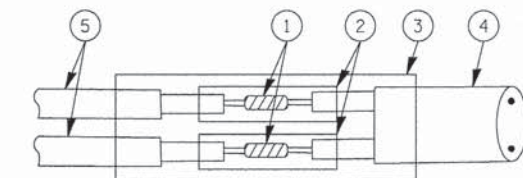


DETECTOR LOOP WIRING SCHEMATIC

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

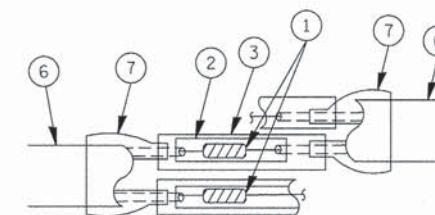


DETAIL "A"  
LOOP-TO-LOOP SPLICE

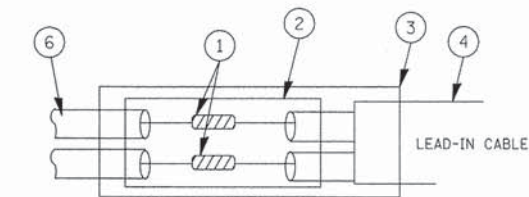


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP



DETAIL "A"  
LOOP-TO-LOOP SPLICE



PRE-FORMED LOOP

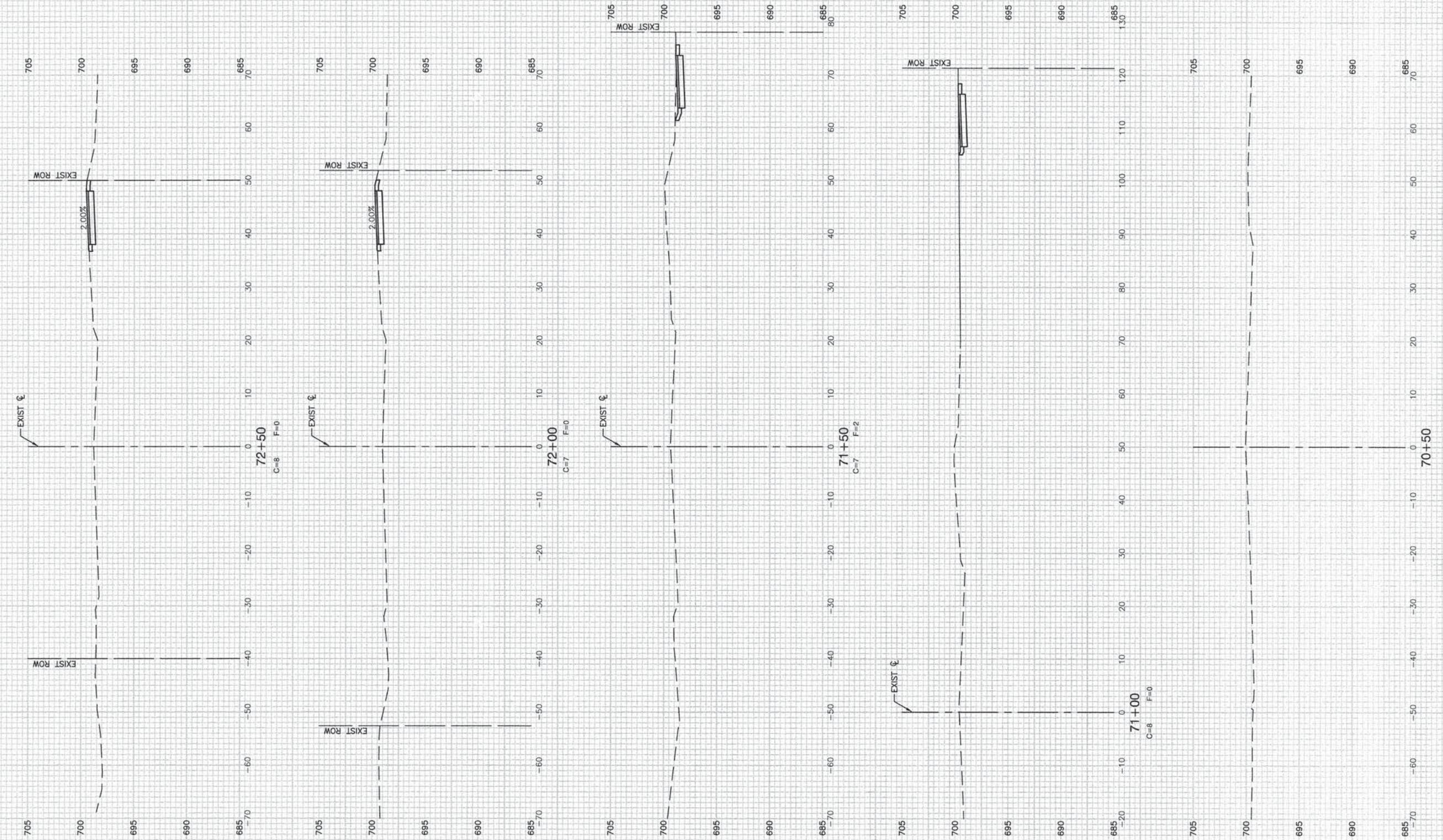
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PWIDOT\BAUERDL\d0128315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -			2774	13-00115-00-RS	COOK	35	24
PLOT SCALE = 50.0000' / IN.	DATE - 10-28-09	REVISOR -	REVISOR -			TS-05		CONTRACT NO. 61A01		
PLOT DATE = 11/4/2009				SCALE: NONE	SHEET NO. 24 OF 35 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)			





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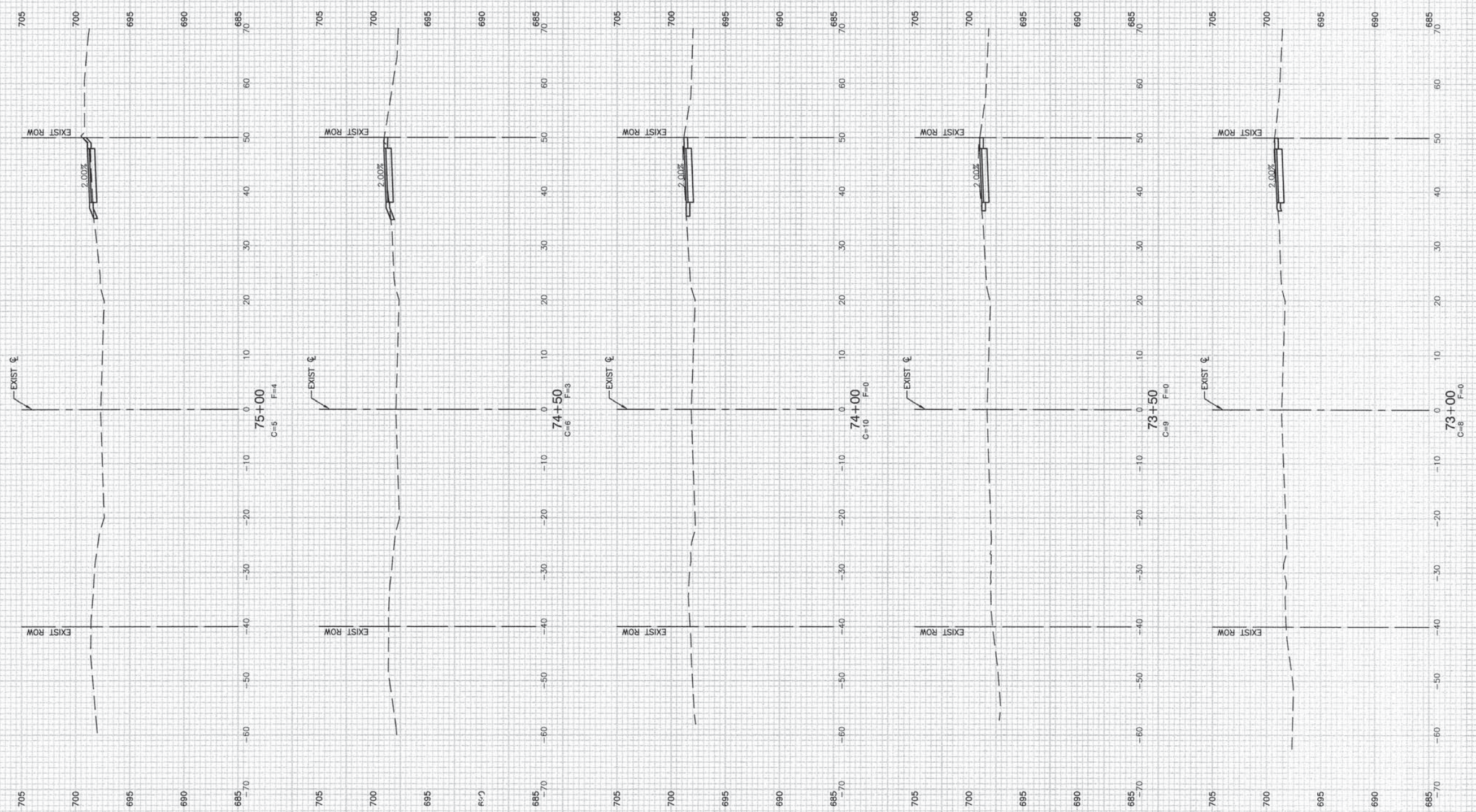
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	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5'    SHEET NO. 25 OF 35 SHEETS    STA.    TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 25
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-4003 (249)	
CONTRACT NO. 61A01				



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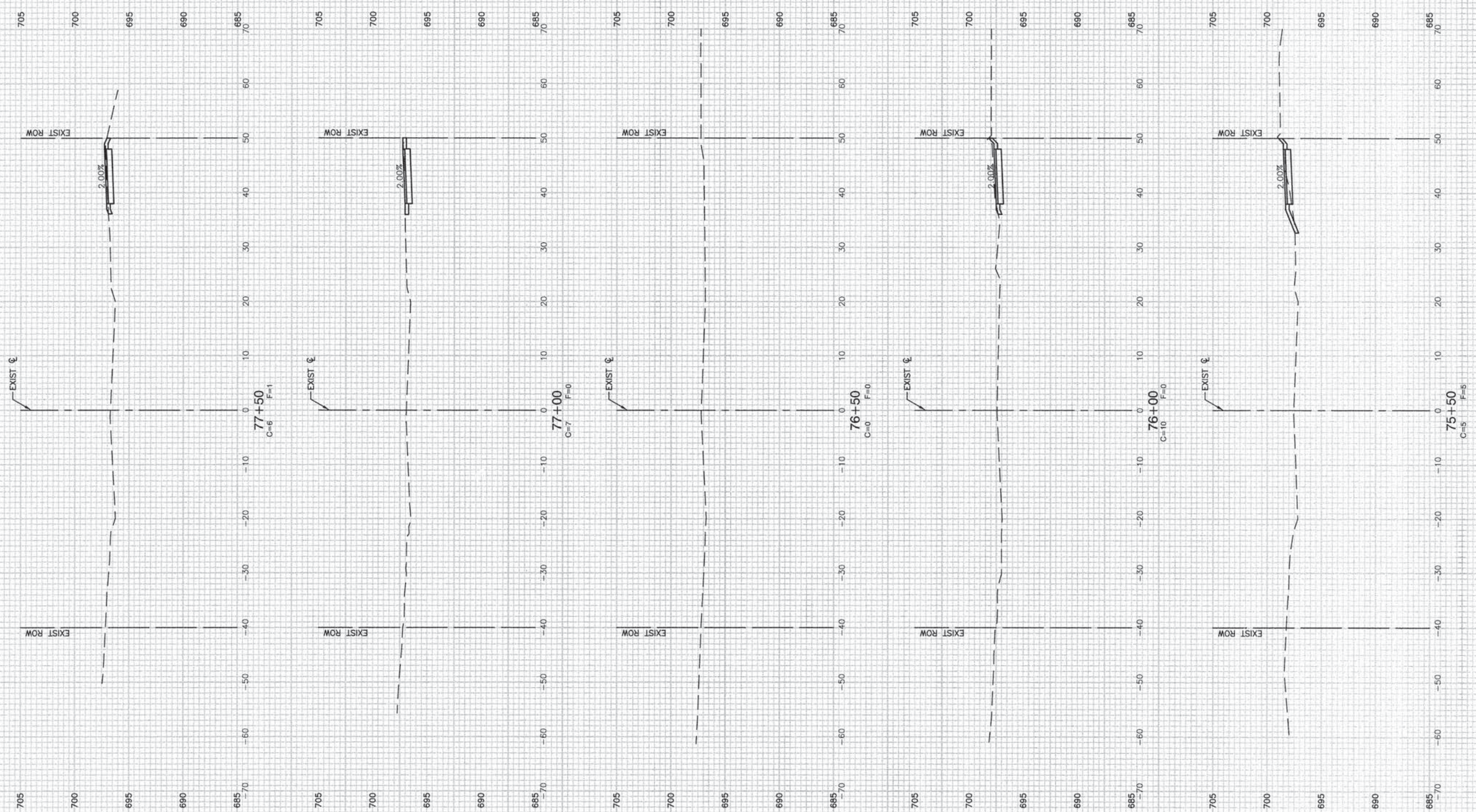
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS**

SCALE: H 1"=10' V 1"=5'    SHEET NO. 26 OF 35 SHEETS    STA.    TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 26
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT CMM-4003 (249)	

CONTRACT NO. 61A01



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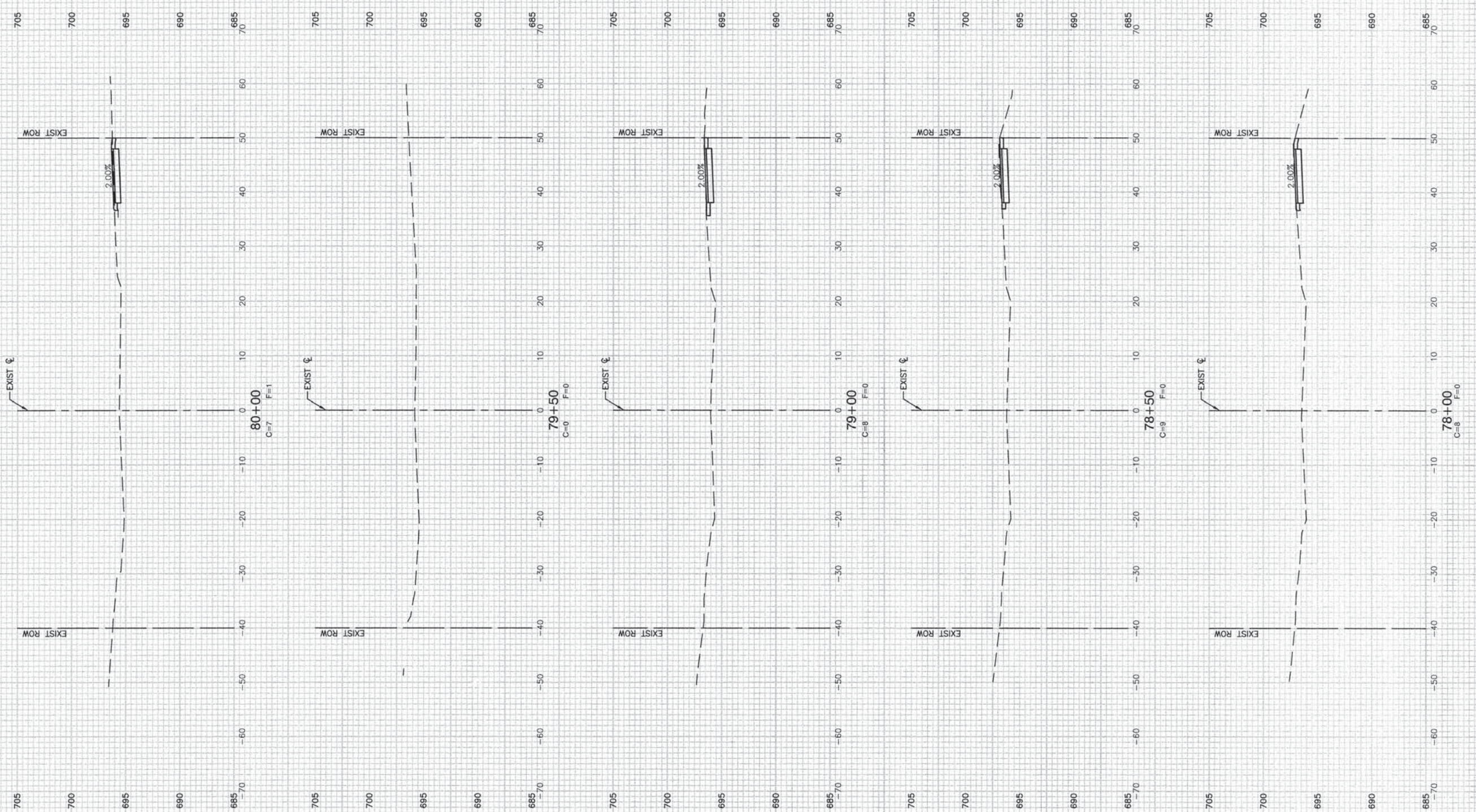
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PLOT SCALE =	DRAWN - RG	REVISED -
PLOT DATE = 12-02-13	CHECKED - AG	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 27 OF 35 SHEETS STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)			CONTRACT NO. 61A01	



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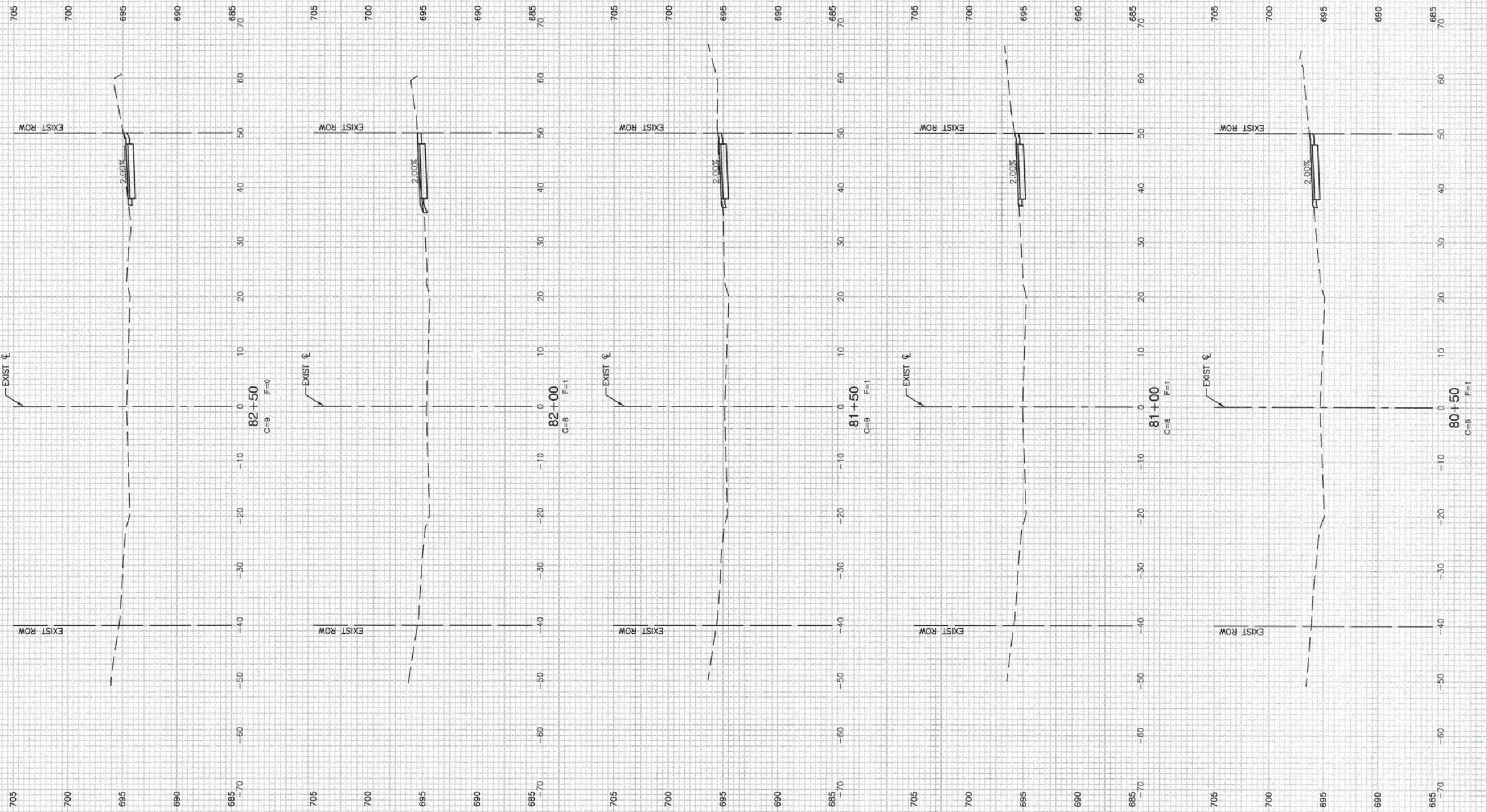
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	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 28 OF 35 SHEETS STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 28
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)			CONTRACT NO. 61A01	



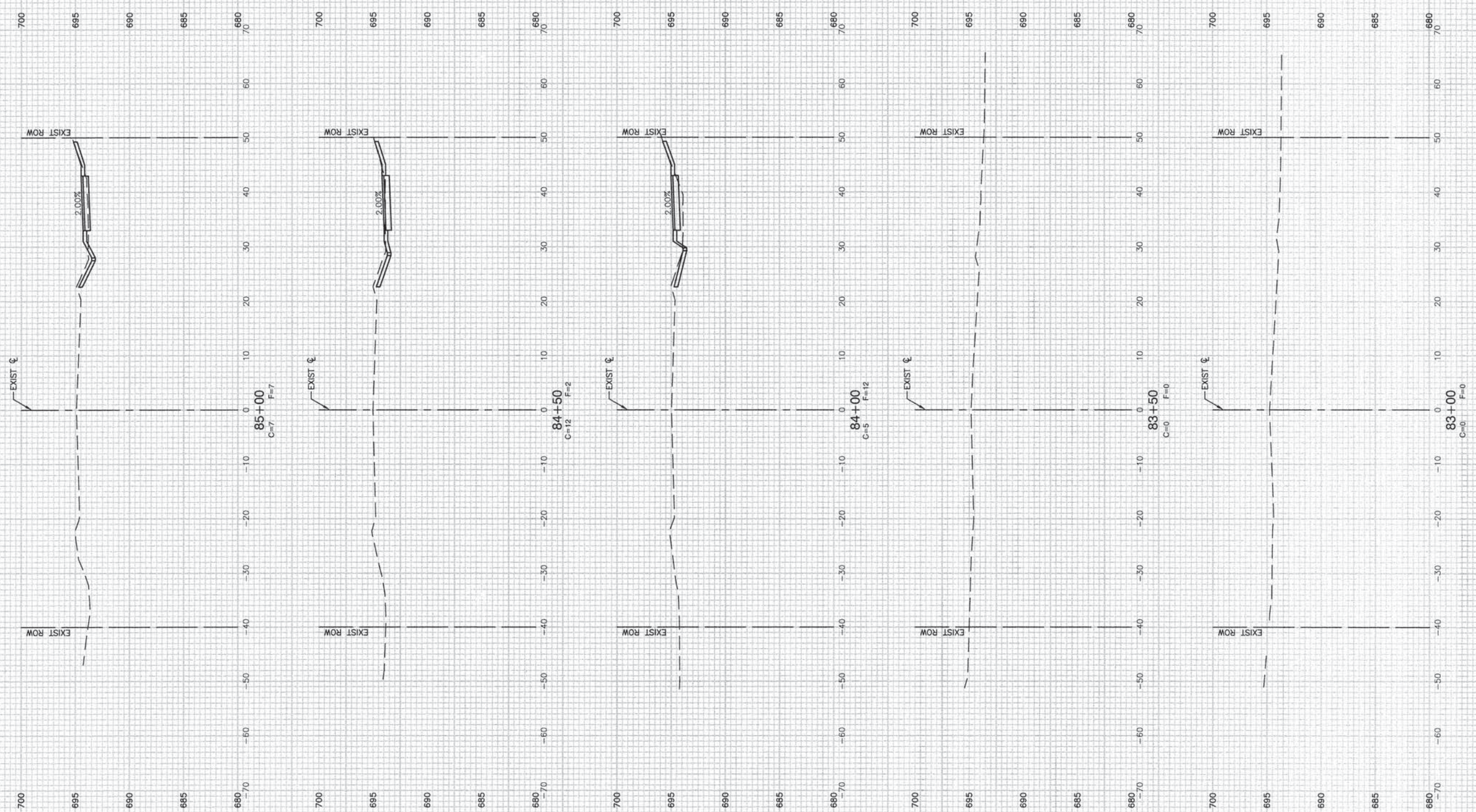
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE ROADWAY IMPROVEMENTS CROSS SECTIONS	
SCALE: H 1"=10' V 1"=5'	SHEET NO. 29 OF 35 SHEETS
STA.	TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 29
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A01	
FED. AID PROJECT CMM-4003 (249)				



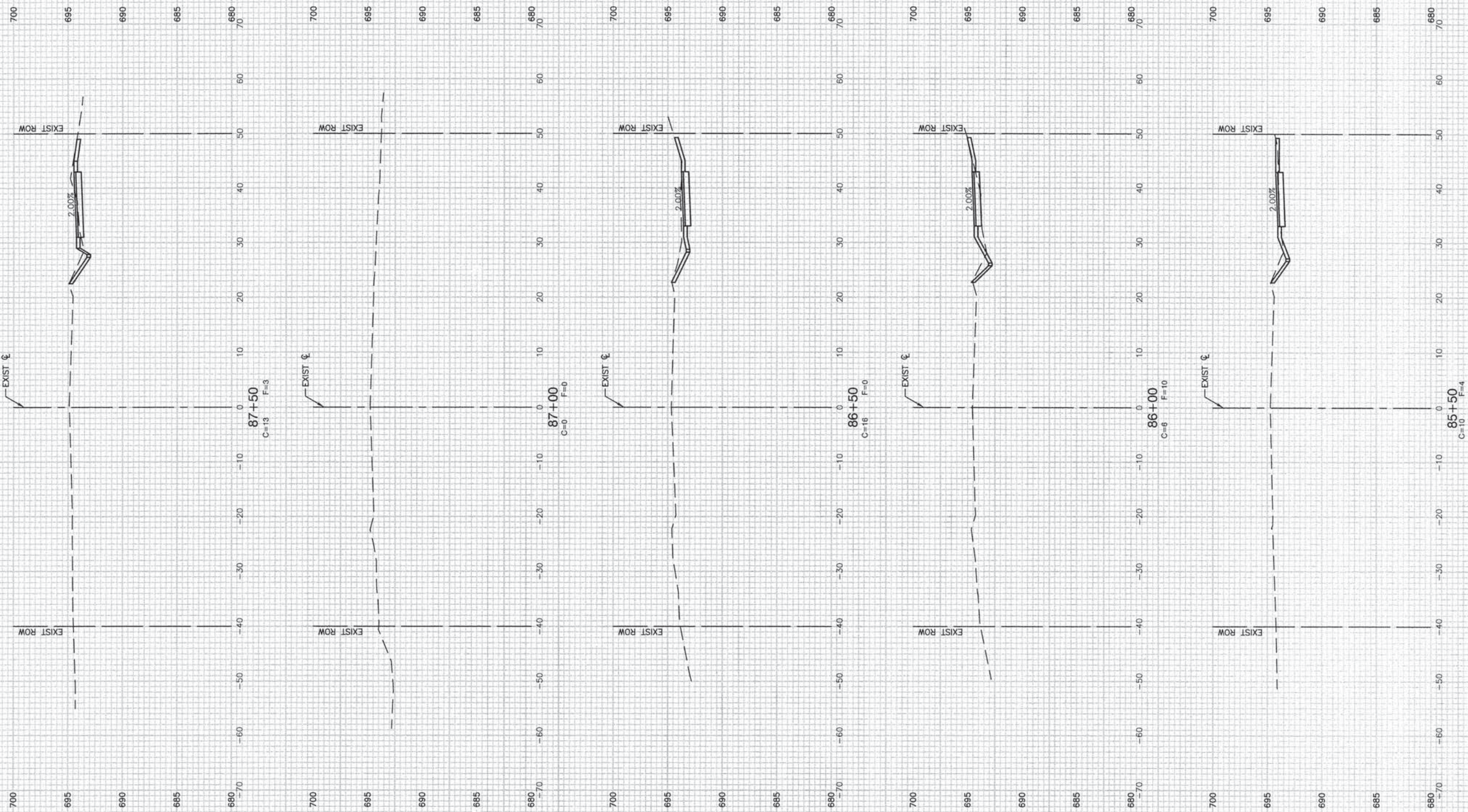
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 PLOT DATE = 12-02-13

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CHECKED -- PKB	REVISED --
DRAWN -- RG	REVISED --
CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
 ROADWAY IMPROVEMENTS  
 CROSS SECTIONS  
 SCALE: H 1"=10' V 1"=5'  
 SHEET NO. 30 OF 35 SHEETS  
 STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 30
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT CMM-4003 (249)	
CONTRACT NO. 61A01				



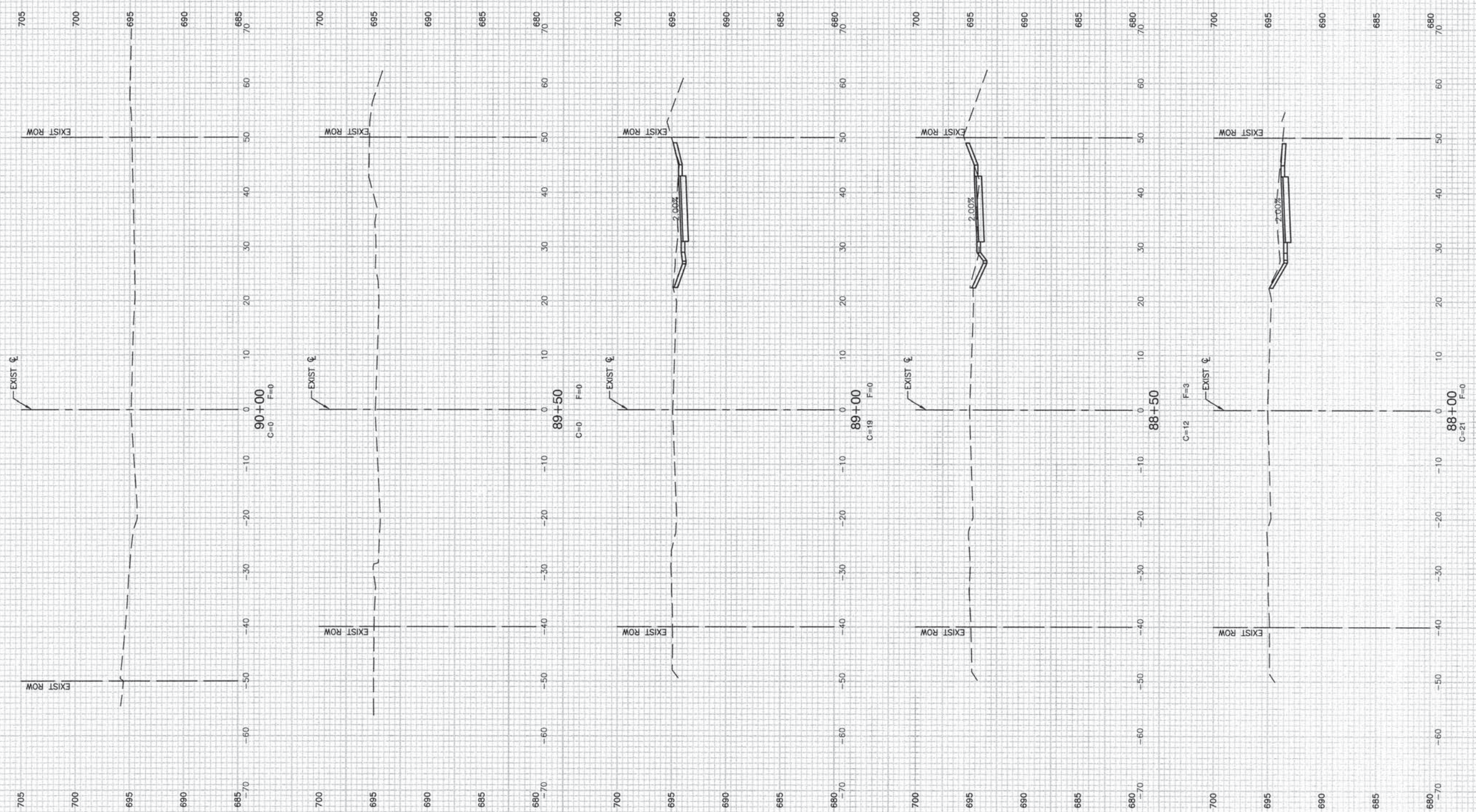
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE ROADWAY IMPROVEMENTS CROSS SECTIONS	
SCALE: H 1"=10' V 1"=5'	SHEET NO. 31 OF 35 SHEETS
STA.	TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 31
CONTRACT NO. 61A01			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)	



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PLOT DATE = 12-02-13	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

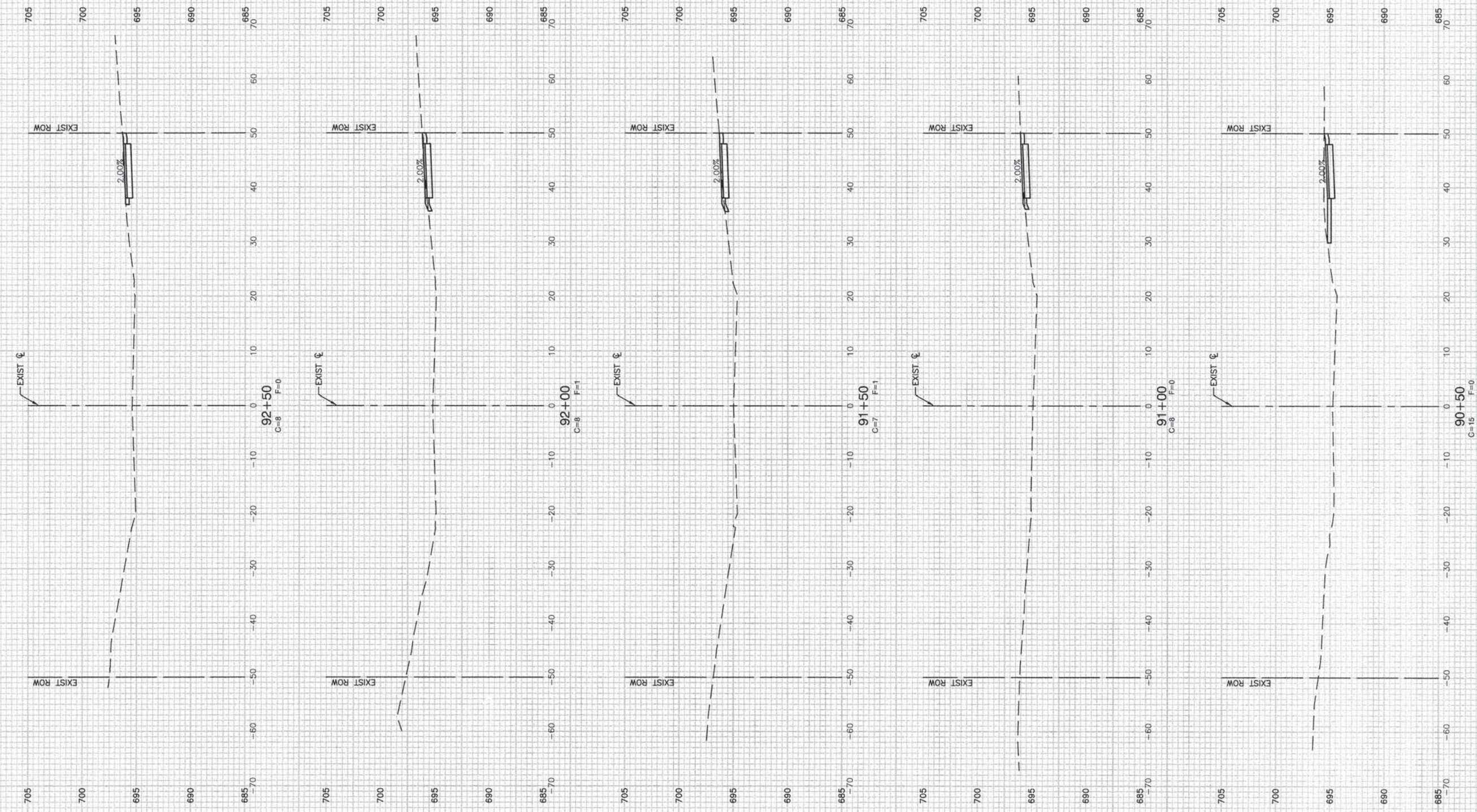
SCALE: H 1"=10' V 1"=5'

SHEET NO. 32 OF 35 SHEETS

STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 32
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)			CONTRACT NO. 61A01	





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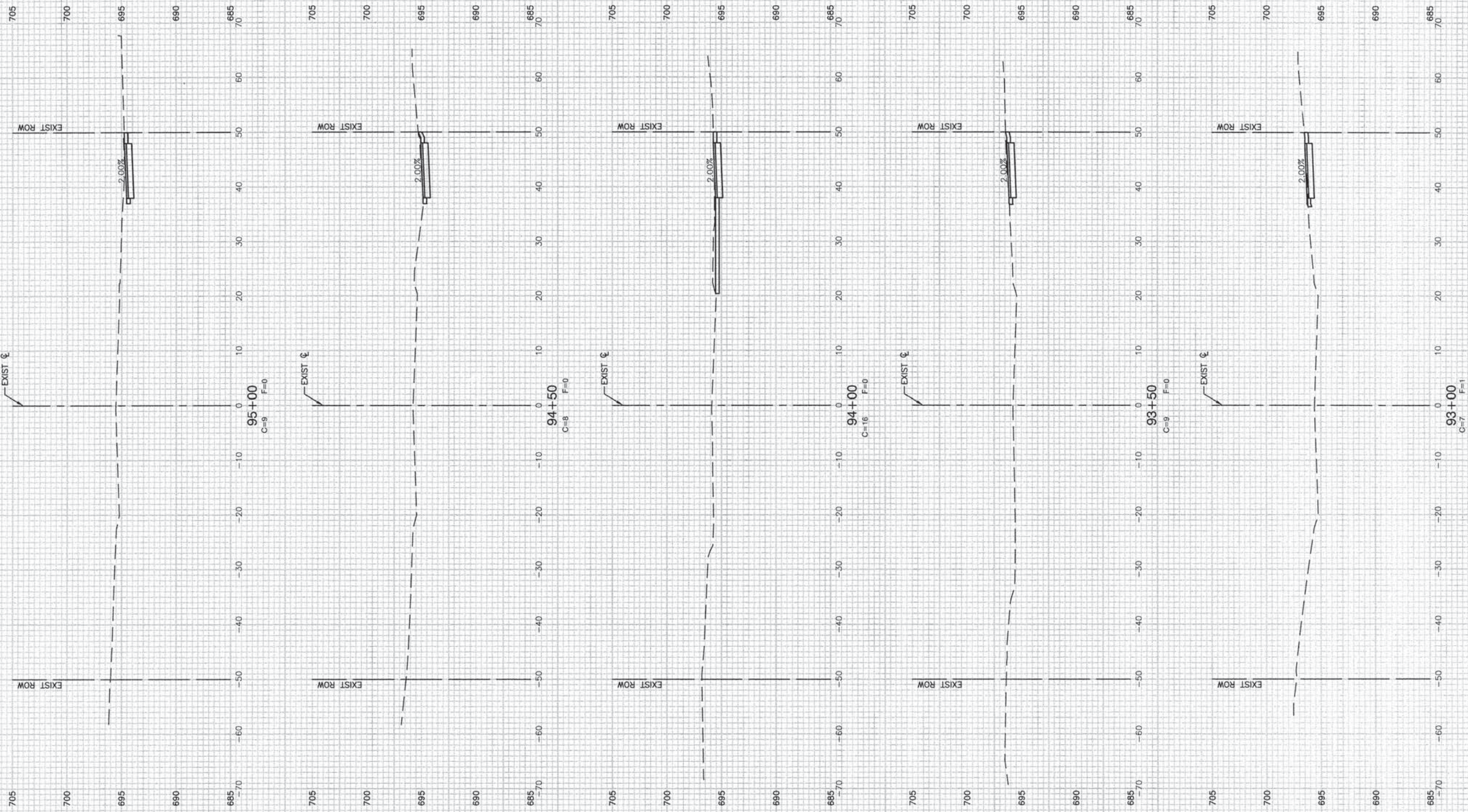
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5'  
SHEET NO. 33 OF 35 SHEETS  
STA. TO STA.

F.A.U. RTE. 2774	SECTION 13-00115-00-RS	COUNTY COOK	TOTAL SHEETS 35	SHEET NO. 33
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT CMM-4003 (249)		



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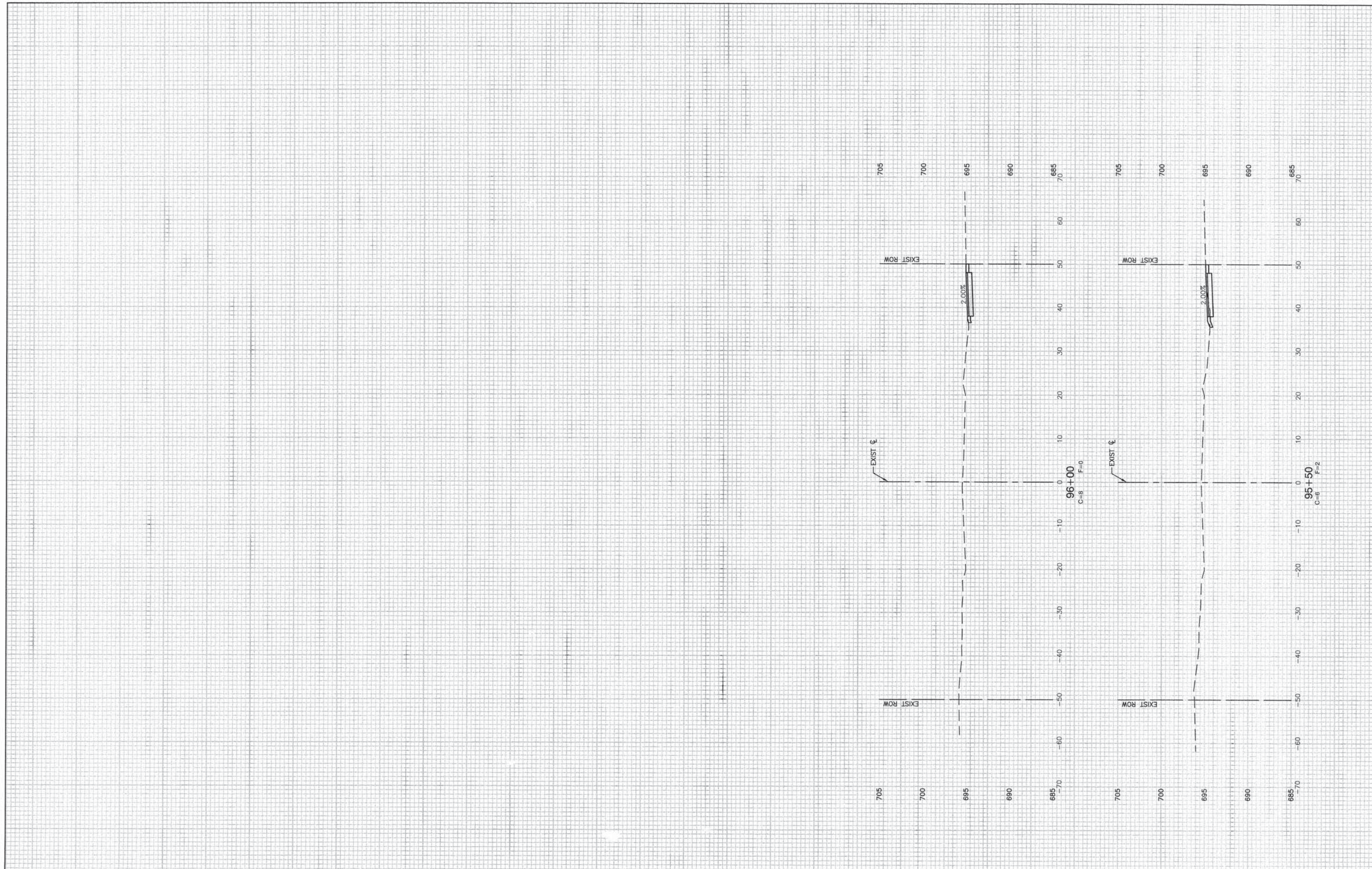
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OAK PARK AVENUE  
ROADWAY IMPROVEMENTS  
CROSS SECTIONS

SCALE: H 1"=10' V 1"=5' SHEET NO. 34 OF 35 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	34
CONTRACT NO. 61A01				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)				



FILE NAME = 13308.XSEC-01 - X11  
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 PLOT SCALE =  
 PLOT DATE = 12-02-13

DESIGNED — JPH	REVISED —
CHECKED — PKB	REVISED —
DRAWN — RG	REVISED —
CHECKED — AG	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**OAK PARK AVENUE  
 ROADWAY IMPROVEMENTS  
 CROSS SECTIONS**

SCALE: H 1"=10' V 1"=5'    SHEET NO. 35 OF 35 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	13-00115-00-RS	COOK	35	35
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-4003 (249)			CONTRACT NO. 61A01	