

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

FAU 1621 (RIDGE ROAD)  
TORRENCE AVENUE TO IL/IN STATE LINE  
LOCAL AGENCY PAVEMENT PRESERVATION

STREET RESURFACING  
PROJECT: M-9003(003)  
SECTION NO.: 08-00164-00-RS  
JOB NO.: C-91-387-08  
VILLAGE OF LANSING  
COOK COUNTY

F. A. ID. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	01
STA. 0+00		TO STA. 91+57		
FED. ROAD DIST. NO.		FED. AID PROJECT		

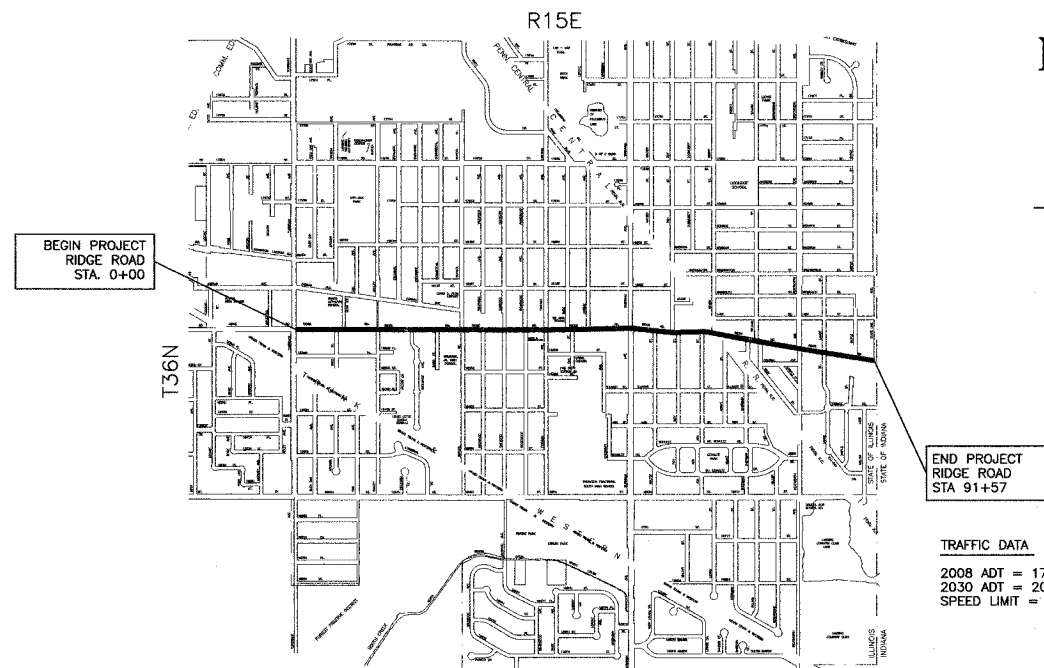
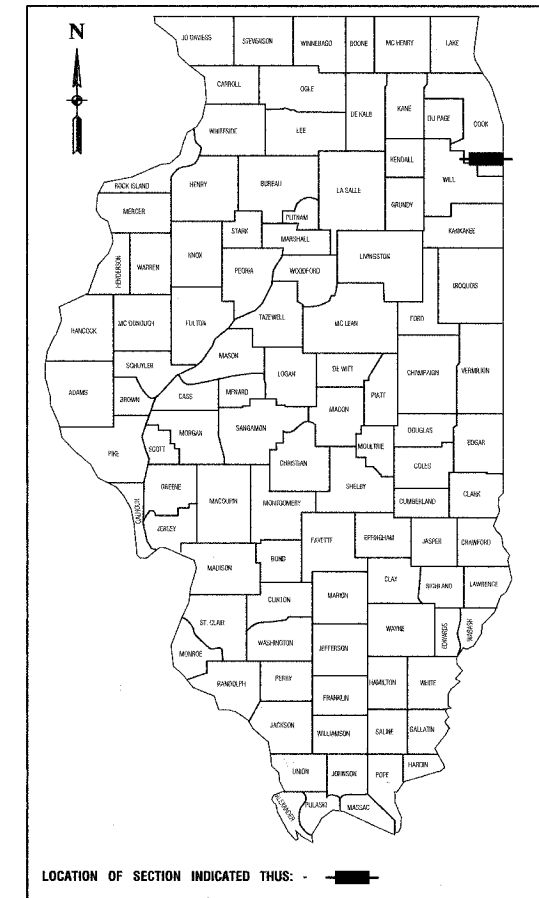
CONTRACT #63054

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- 9. PAVEMENT MARKING PLANS
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- BUTT JOINT AND HMA TAPER DETAILS

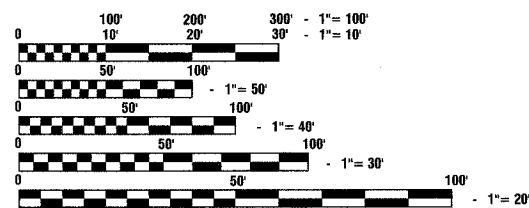
STATE STANDARDS

- |           |  |
|-----------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                     |
| 424001-05 | CURB RAMPS FOR SIDEWALKS   |
| 442201-03 | CLASS C AND D PATCHES  |
| 606001-03 | CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER             |
| 701501-04 | URBAN LANE CLOSURE, 2-L, 2-W, UNDIVIDED                          |
| 701701-05 | URBAN LANE CLOSURE, MULTILANE, INTERSECTION                      |
| 701801-03 | LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE |
| 701901    | TRAFFIC CONTROL DEVICES  |
| 780001-01 | TYPICAL PAVEMENT MARKINGS  |
| 886001    | DETECTOR LOOP INSTALLATIONS                                      |
| 886006    | TYPICAL LAYOUT FOR DETECTION LOOPS                               |



END PROJECT  
RIDGE ROAD  
STA. 91+57

TRAFFIC DATA  
2008 ADT = 17,300  
2030 ADT = 20,500  
SPEED LIMIT = 25-35 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 EXCAVATION  
1 - 800 - 892 - 0123

CONTRACT NO. 63054

LOCATION MAP

GROSS LENGTH OF PROJECT: 9157 FEET (1.73 MILES)  
NET LENGTH OF PROJECT: 9157 FEET (1.73 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

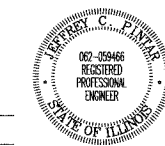
APPROVED May 6, 2008  
*Jim Watkins*  
DIRECTOR OF PUBLIC WORKS, VILLAGE OF LANSING

PASSED MAY 23, 2008  
*Christopher Holt*  
REGION ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW MAY 22, 2008  
*Diane M. O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:  
*MC Gm*  
5/16/08



LICENSE EXPIRES: 11/30/09

FIELD ENGINEER: MELCHOR MANGOBA 847-705-4408  
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

P. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	02
STA.	TO STA.			
FED. ROAD DIST. NO.	ILRMS	FED. RD PROJECT		

CONTRACT #63054

SUMMARY OF QUANTITIES				PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	LIGHTS	SIGNALS	TRAINING	
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONSTRUCTION TYPE CODE						
					I000	SFTY-1D	Y002-1C	Y003	Y030-1E	Y031	Y080
	25200650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	450	450						
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4775	4775						
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4499	4499						
	40600895	CONSTRUCTING TEST STRIP	EACH	2	2						
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	780	780						
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3775	3775						
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	77.6	77.6						
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	4720	4720						
	42400800	DETECTABLE WARNINGS	SQ FT	688	688						
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	44945	44945						
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	119.6	119.6						
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1225.5	1225.5						
	44000600	SIDEWALK REMOVAL	SQ FT	4775	4775						
	44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	46	46						
	44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	166	166						
	44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	37	37						
	44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	580	580						
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1						
	60249400	VALVE BOXES 6"	EACH	2	2						
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	35	35						
	60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2						
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1						
	60255500	MANHOLES TO BE ADJUSTED	EACH	24	24						
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2						
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	4	4						
	60266600	VALVE BOXES TO BE ADJUSTED	EACH	14	14						
	60266910	VALVE BOXES TO BE REMOVED	EACH	2	2						
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2						
	60500050	REMOVING CATCH BASINS	EACH	1	1						
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1225.5	1225.5						
	67100100	MOBILIZATION	L SUM	1	1						
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	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	10000	10000						
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1472	1472						
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20078	20078						
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2827	2827						
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2723	2723						
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	317	317						
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1304	1304						
	XX005972	STAMPED ASPHALT CROSSWALK	SQ YD	112	112						
	X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1770	1770						
	Z0000940	AGGREGATE FOR DRIVEWAY MAINTENANCE	TON	40	40						
	XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL & REPLACEMENT	SQ YD	42	42						
	42400430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	1240	1240						

\* - INDICATES SPECIALTY ITEMS

**GENERAL NOTES**

ROBINSON ENGINEERING SHALL BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. CALL (708) 331-6700

THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE 1 AND TYPE 2 BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE INSTALLED ON EACH BOTTOM RAIL.

THE REMOVAL OF ANY DRIVEWAYS, PAVEMENT, CURB, ETC. SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS REMOVAL ITEMS.

WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, COMMUNICATIONS, AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED.)

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

SCHEDULES INCLUDED IN THE PLANS HAVE BEEN PREPARED FROM FIELD NOTES. EXACT LOCATIONS FOR PATCHING SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

AREAS DISTURBED BY CONSTRUCTION SHALL BE KEPT TO A MINIMUM. ALL AREAS DISTURBED UNNECESSARILY SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.

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 THE UTILITY INFORMATION.

ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.

ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE NOMINAL THICKNESS OF HOT-MIX ASPHALT 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 HOT-MIX ASPHALT SURFACE IS PLACED.

CONTRACTOR SHALL MILL EXISTING PAVEMENT PRIOR TO PATCHING.

REVISIONS	
NAME	DATE

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

**RIDGE ROAD  
STREET RESURFACING  
SUMMARY OF QUANTITIES & GENERAL NOTES**

SCALE: VERT. NA  
HORIZ. 1"=50'

DATE 05/07/08

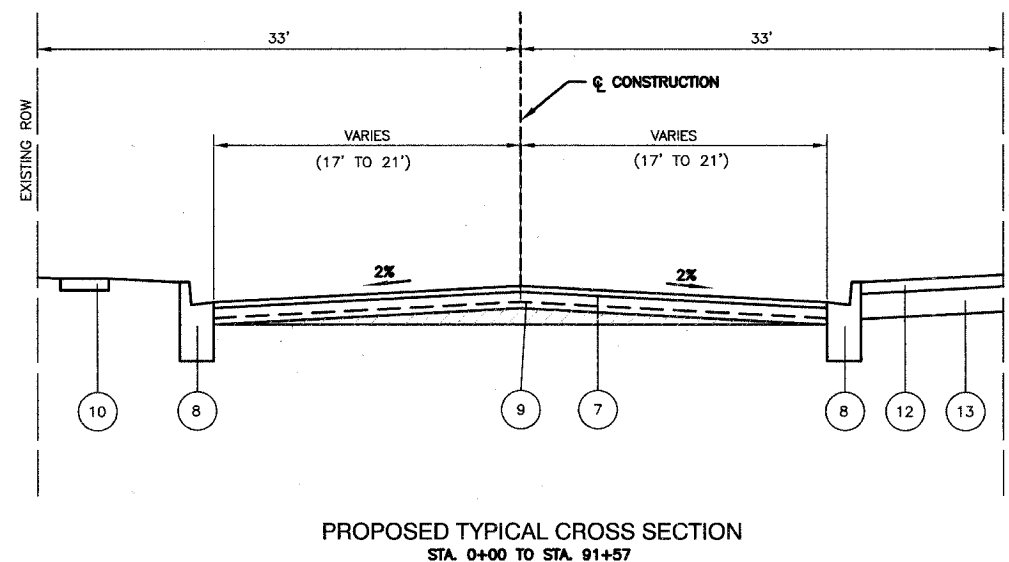
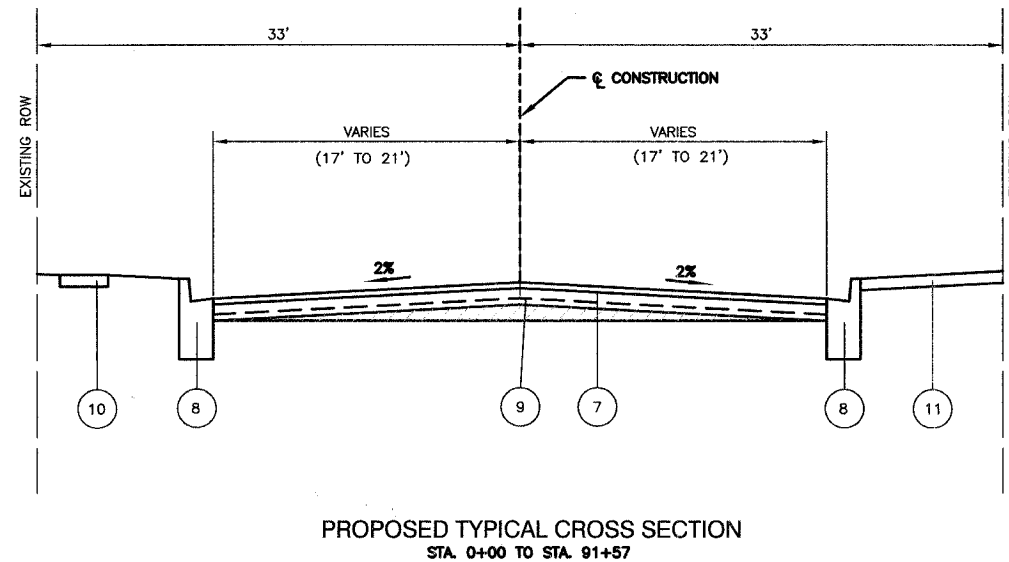
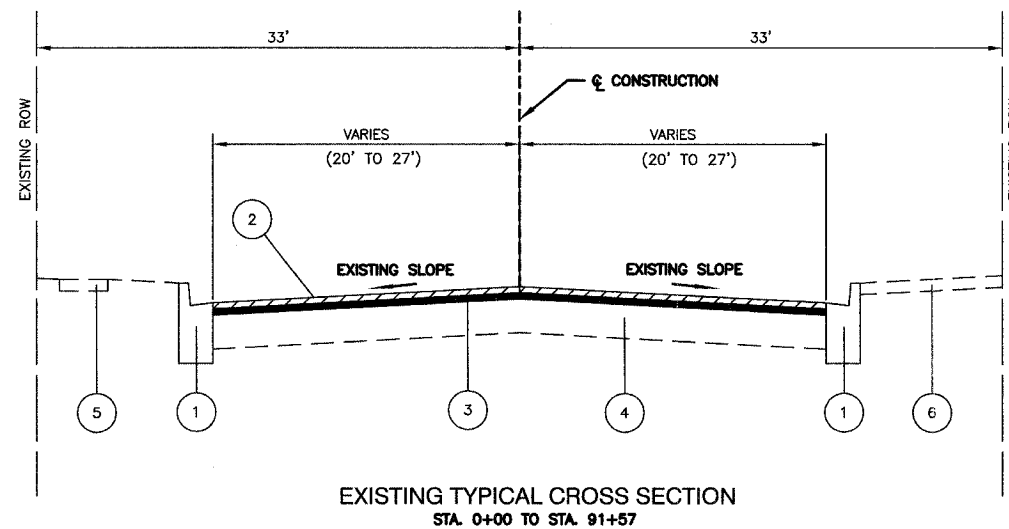
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ROBINSON ENGINEERING, LTD.  
1700 SOUTH PARK AVENUE • SOUTH BELL, ILLINOIS 60090  
(708) 331-6700 FAX (708) 331-3825  
ILLINOIS DESIGN FIRM REGISTRATION NO. 19400108

08161 QJAN 01

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	03
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #63054



- 1 EXISTING CURB & GUTTER TO BE REMOVED AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 2 HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- 3 EXISTING BITUMINOUS BASE COURSE TO REMAIN, 4"±
- 4 EXISTING P.C. CONCRETE PAVEMENT, 8"±
- 5 EXISTING P.C. CONCRETE SIDEWALK TO BE REMOVED AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 6 EXISTING DRIVEWAY PAVEMENT TO BE REMOVED AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 7 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 1½"
- 8 COMBINATION CONCRETE CURB & GUTTER, B6.12 AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 9 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH AT LOCATIONS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 11 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT AT LOCATIONS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- 12 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"
- 13 HOT-MIX ASPHALT BASE COURSE, 6"

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

ITEM	AC TYPE	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL-9.5mm)	PG 64-22	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28(2)	4% @ 50 GYR
CLASS D PATCHES, TYPE II, III, IV, 9 INCH (HMA BINDER IL-19mm)	PG 64-22(2)	4% @ 70 GYR
<b>HMA DRIVEWAYS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, (IL 9.5mm) 2"	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE (BINDER IL-19mm); PE-6"	PG 64-22(2)	4% @ 50 GYR

- NOTE:
- THE UNIT WEIGHT USED TO CALCULATE HOT-MIX ASPHALT SURFACE, DRIVEWAYS AND CLASS D PATCHES MIXTURE QUANTITIES IS 112 LBS/SY/IN. THE UNIT WEIGHT USED TO CALCULATE POLYMERIZED LEVELING BINDER IS 105 LBS/SY/IN.
  - WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIDGE ROAD  
STREET RESURFACING  
TYPICAL CROSS SECTIONS**

SCALE: VERT. NA  
HORIZ. 1"=50'  
DATE 05/07/08

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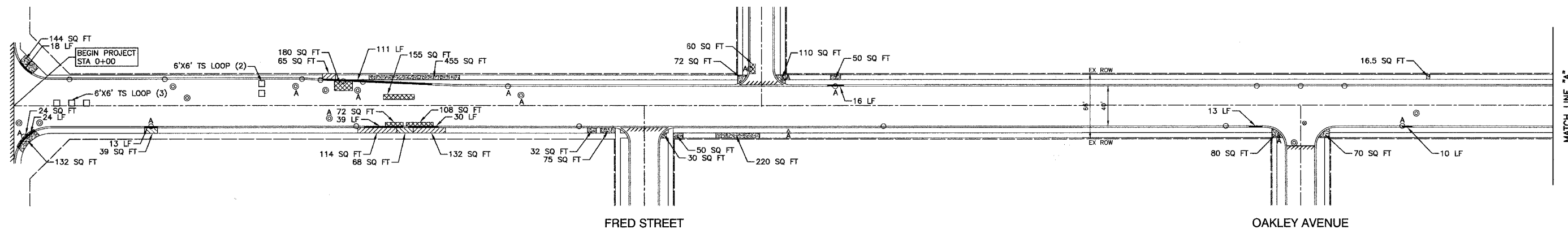
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1621	08-00184-00-RS	COOK	11	04
STA.		TO STA.		
FED. ROAD DIST. NO.	BLINDS	FED. RD PROJECT		

CONTRACT #63054



TORRENCE AVENUE

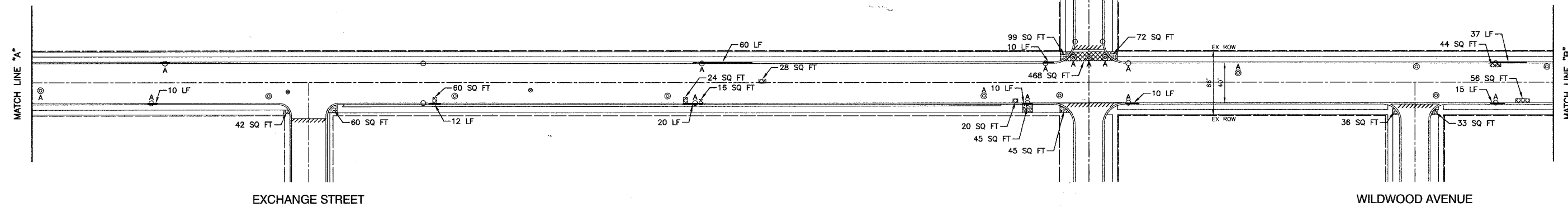
GLEN OAK TERRACE



FRED STREET

OAKLEY AVENUE

SCHOOL STREET



EXCHANGE STREET

WILDWOOD AVENUE

**LEGEND**

- |  |  |  |                          |
|--|--|--|--------------------------|
|  | CLASS D PATCHES                                    |  | EXISTING BBOX            |
|  | HOT-MIX ASPHALT DRIVEWAY REMOVAL & REPLACEMENT     |  | EXISTING MANHOLE         |
|  | CONCRETE SIDEWALK REMOVAL & REPLACEMENT            |  | EXISTING WATER/GAS VALVE |
|  | CONCRETE DRIVEWAY REMOVAL & REPLACEMENT            |  | EXISTING CATCH BASIN     |
|  | DECORATIVE CONCRETE SIDEWALK REMOVAL & REPLACEMENT |  |                          |
|  | CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT   |  |                          |
|  | A STRUCTURE TO BE ADJUSTED                         |  |                          |
|  | R STRUCTURE TO BE RECONSTRUCTED                    |  |                          |
|  | R+R STRUCTURE TO BE REMOVED AND REPLACED           |  |                          |
|  | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT       |  |                          |
|  | DECORATIVE STAMPED HOT-MIX ASPHALT CROSSWALK       |  |                          |

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIDGE ROAD  
STREET RESURFACING  
BEGIN IMPROVEMENT TO MATCHLINE "B"**

SCALE: VERT. NA  
HORIZ. 1"=50'  
DATE 05/07/08

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CHECKED BY JP

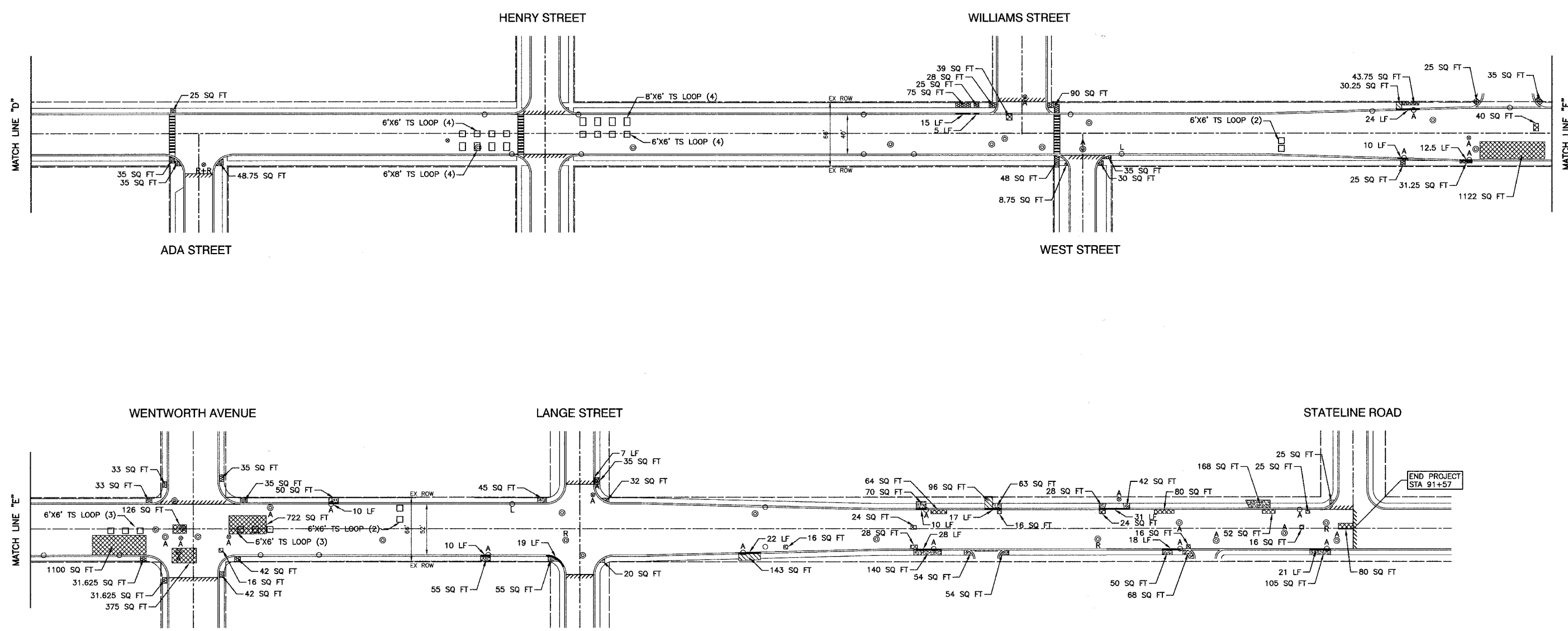
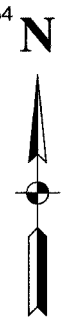
**ROBINSON ENGINEERING, LTD.**  
17000 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
(708) 381-6700 FAX (708) 381-3668  
ILLINOIS DESIGN FIRM REGISTRATION NO. 194001208

08161-PLAN-01



F. A. D. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	06
STA.	TO STA.			
FED. ROAD DIST. NO.	UNIFORM	FED. AID PROJECT		

CONTRACT #63054



**LEGEND**

- |  |  |  |                          |
|--|--|--|--------------------------|
|  | CLASS D PATCHES                                    |  | EXISTING BBOX            |
|  | HOT-MIX ASPHALT DRIVEWAY REMOVAL & REPLACEMENT     |  | EXISTING MANHOLE         |
|  | CONCRETE SIDEWALK REMOVAL & REPLACEMENT            |  | EXISTING WATER/GAS VALVE |
|  | CONCRETE DRIVEWAY REMOVAL & REPLACEMENT            |  | EXISTING CATCH BASIN     |
|  | DECORATIVE CONCRETE SIDEWALK REMOVAL & REPLACEMENT |  |                          |
|  | CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT   |  |                          |
|  | STRUCTURE TO BE ADJUSTED                           |  |                          |
|  | STRUCTURE TO BE RECONSTRUCTED                      |  |                          |
|  | STRUCTURE TO BE REMOVED AND REPLACED               |  |                          |
|  | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT       |  |                          |
|  | DECORATIVE STAMPED HOT-MIX ASPHALT CROSSWALK       |  |                          |

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIDGE ROAD  
STREET RESURFACING  
MATCHLINE "D" TO END OF IMPROVEMENT**

VERT. NA  
SCALE: HORIZ. 1"=50'  
DATE 05/07/08

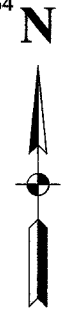
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**ROBINSON ENGINEERING, LTD.**  
1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
(708) 331-8700 FAX (708) 331-8888  
ILLINOIS DESIGN FIRM REGISTRATION NO. 0540-1108

08161-PLAN-01

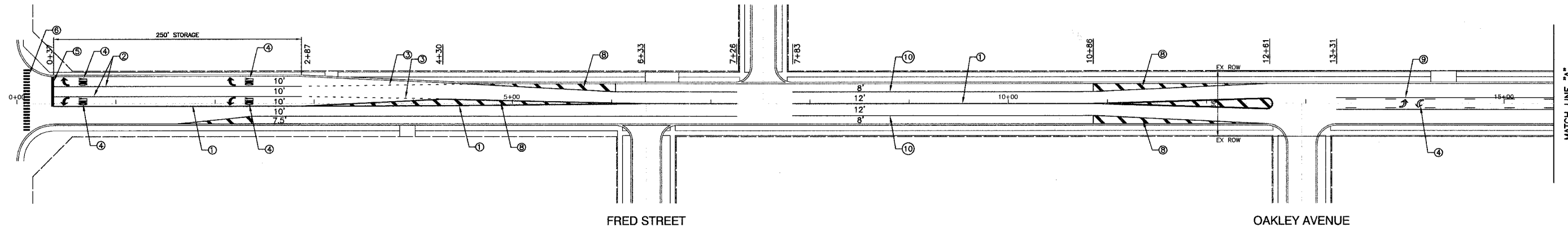
F. A. D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00184-00-RS	COOK	11	07
STA.	TO STA.			
FED. ROAD DIST. NO.	LINE NO.	FED. AID PROJECT		

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TORRENCE AVENUE

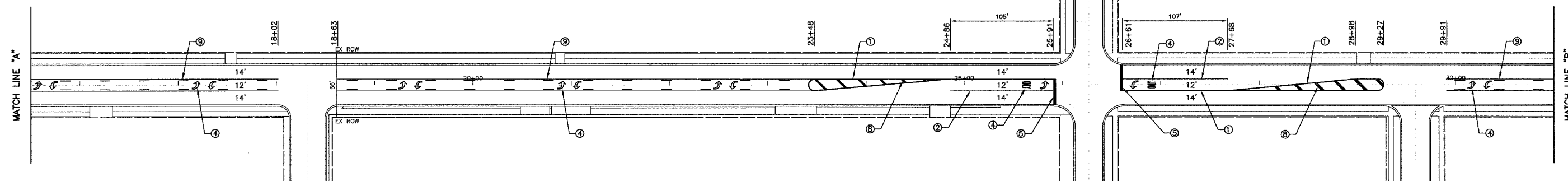
GLEN OAK TERRACE



FRED STREET

OAKLEY AVENUE

SCHOOL STREET



EXCHANGE STREET

WILDWOOD AVENUE

**STRIPING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE SKIP DASH, 2' DASH, 6' SKIP)
- ④ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE CROSSWALK)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE, 10' LINE, 30' SKIP)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL, 20' C-C)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINES 4" (YELLOW LANE LINES, 5 1/2" C-C WITH SKIP DASH LINE, 10' LINE, 30' SKIP)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE PARKING LINE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

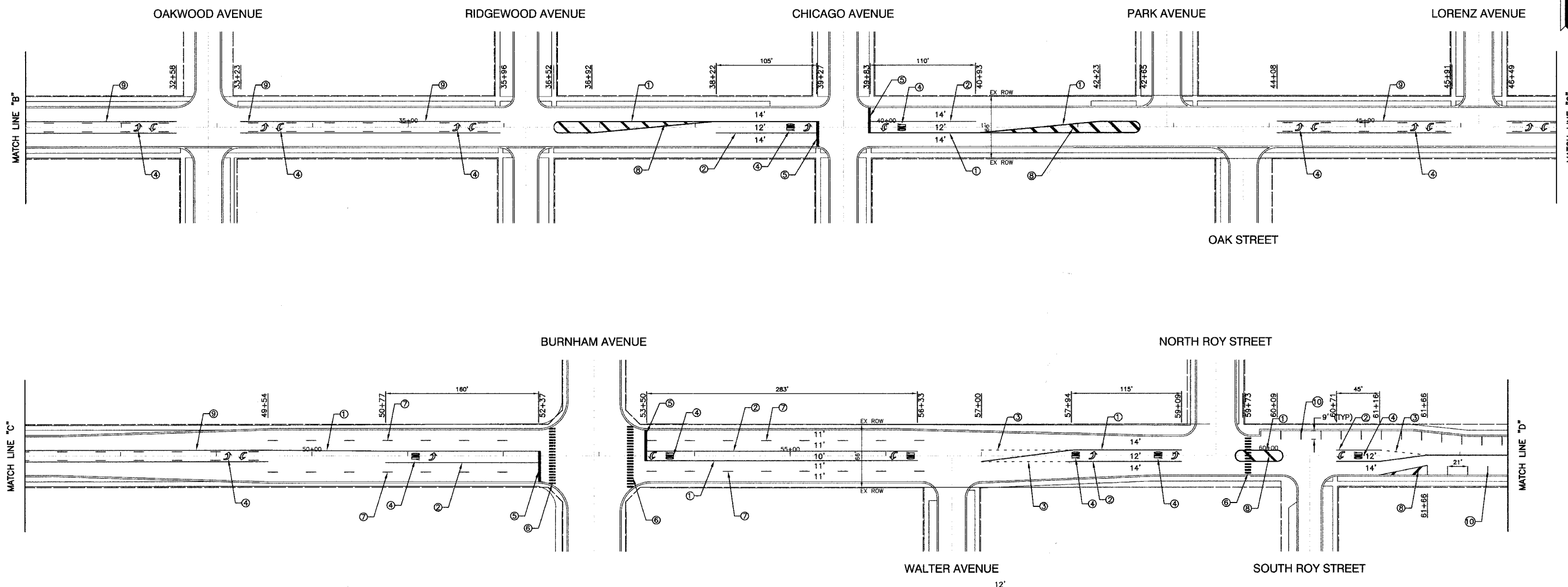
**RIDGE ROAD  
STREET RESURFACING  
PAVEMENT MARKING PLANS  
BEGIN IMPROVEMENT TO MATCHLINE "B"**

SCALE: VERT. NA  
HORIZ. 1"=50'  
DATE 05/07/08

DRAWN BY JZ  
CHECKED BY JP

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00184-00-RS	COOK	11	08
STA.	TO STA.			
FED. ROAD DIST. NO.	BLK/SP	FED. RD PROJECT		

CONTRACT #63054



**STRIPING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE SKIP DASH, 2' DASH, 6' SKIP)
- ④ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE CROSSWALK)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE, 10' LINE, 30' SKIP)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL, 20' C-C)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINES 4" (YELLOW LANE LINES, 5 1/2" C-C WITH SKIP DASH LINE, 10' LINE, 30' SKIP)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE PARKING LINE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIDGE ROAD  
STREET RESURFACING  
PAVEMENT MARKING PLANS  
MATCHLINE "B" TO MATCHLINE "D"**

SCALE: VERT. NA  
HORIZ. 1"=50'  
DATE 05/07/08

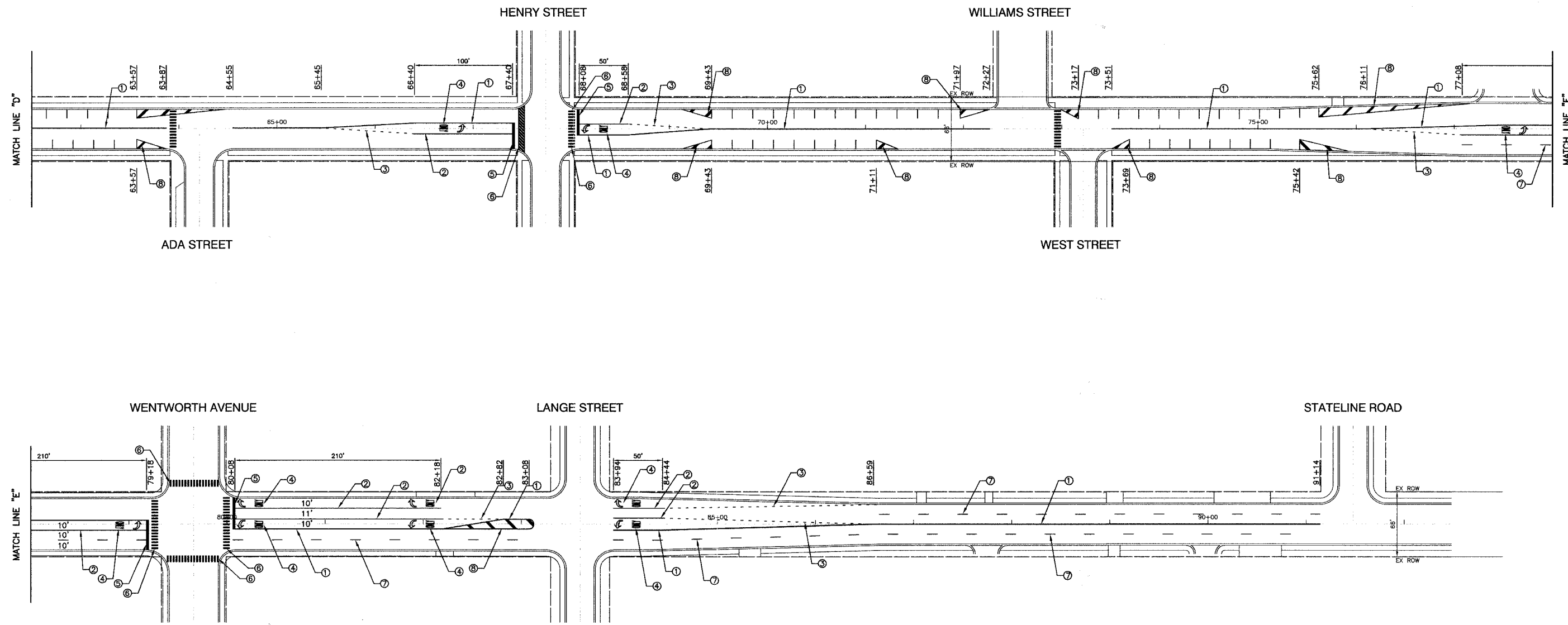
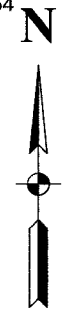
DRAWN BY JZ  
CHECKED BY JP

**ROBINSON ENGINEERING, LTD.**  
1700 SOUTH PULASKI AVENUE, SOUTH HOLLAND, ILLINOIS 60470  
(708) 351-4700 FAX (708) 351-3625  
ILLINOIS DESIGN FIRM REGISTRATION NO. 15401128



F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1821	08-00184-00-RS	COOK	11	09
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

CONTRACT #63054



**STRIPING LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE TURN LANE SKIP DASH, 2' DASH, 6' SKIP)
- ④ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE CROSSWALK)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE, 10' LINE, 30' SKIP)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL, 20' C-C)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINES 4" (YELLOW LANE LINES, 5 1/2" C-C WITH SKIP DASH LINE, 10' LINE, 30' SKIP)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE PARKING LINE)

REVISIONS	
NAME	DATE

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

**RIDGE ROAD  
STREET RESURFACING  
PAVEMENT MARKING PLANS  
MATCHLINE "D" TO END OF IMPROVEMENT**

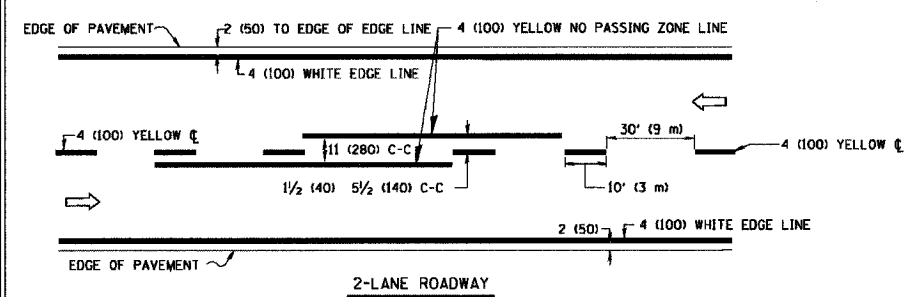
SCALE: VERT. NA  
HORIZ. 1"=50'

DATE 05/07/08

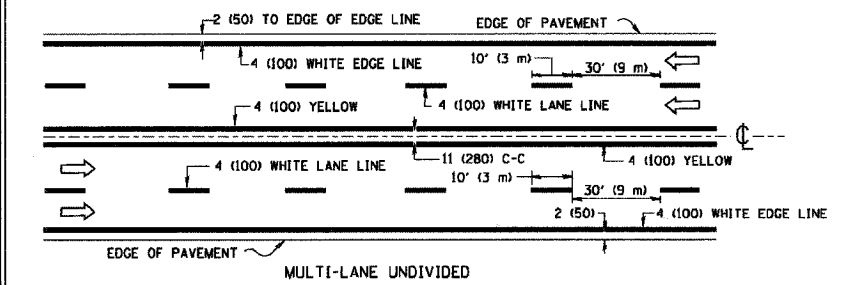
DRAWN BY JZ  
CHECKED BY JP

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ALPHAS	FED. AID PROJECT		

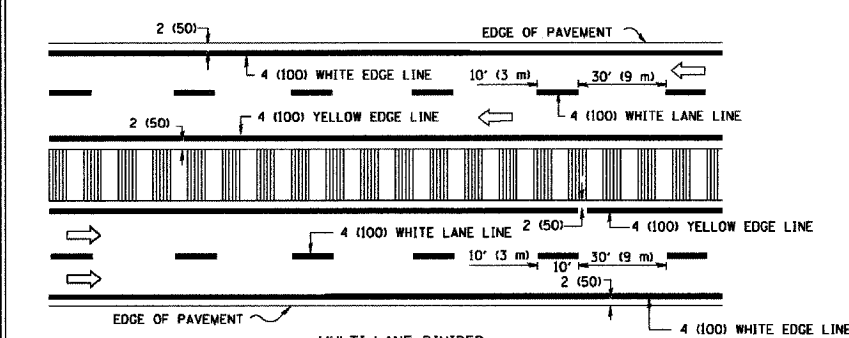
CONTRACT #63054



2-LANE ROADWAY



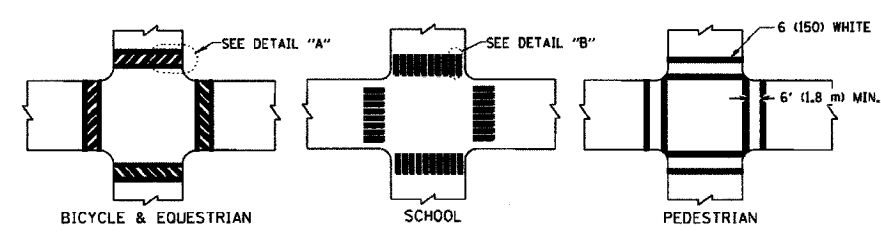
MULTI-LANE UNDIVIDED



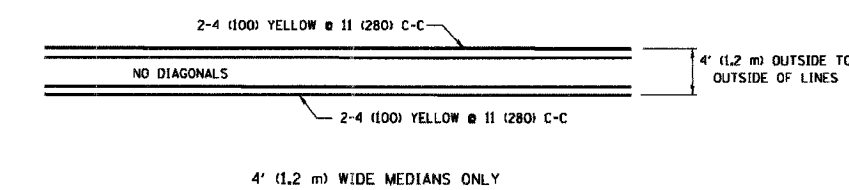
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

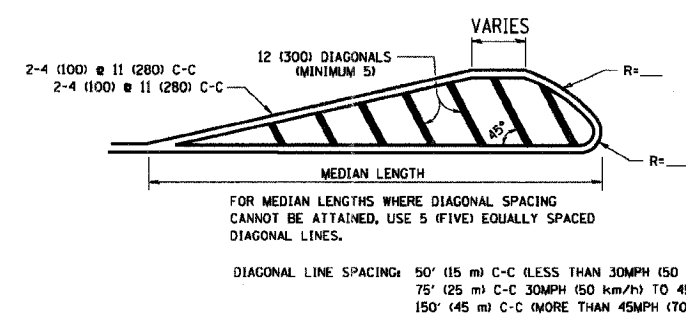
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

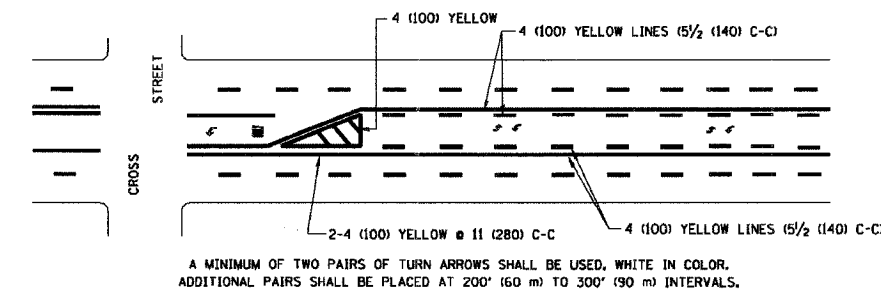


4' (1.2 m) WIDE MEDIANS ONLY



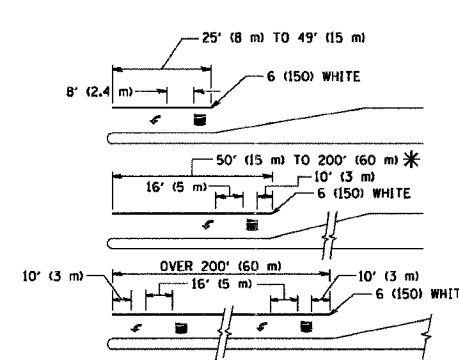
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

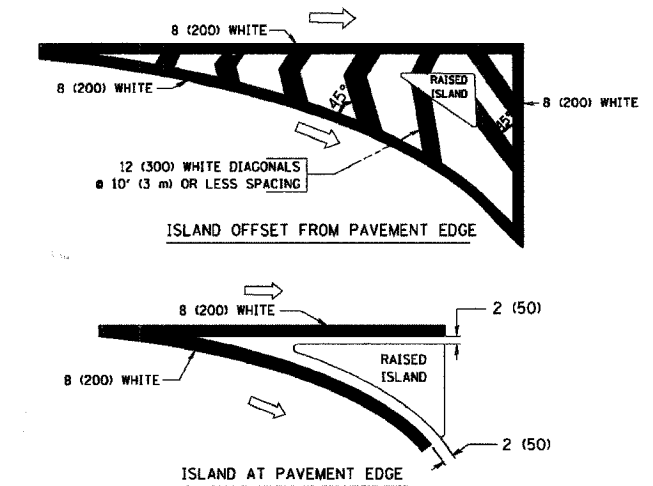


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) 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 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.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

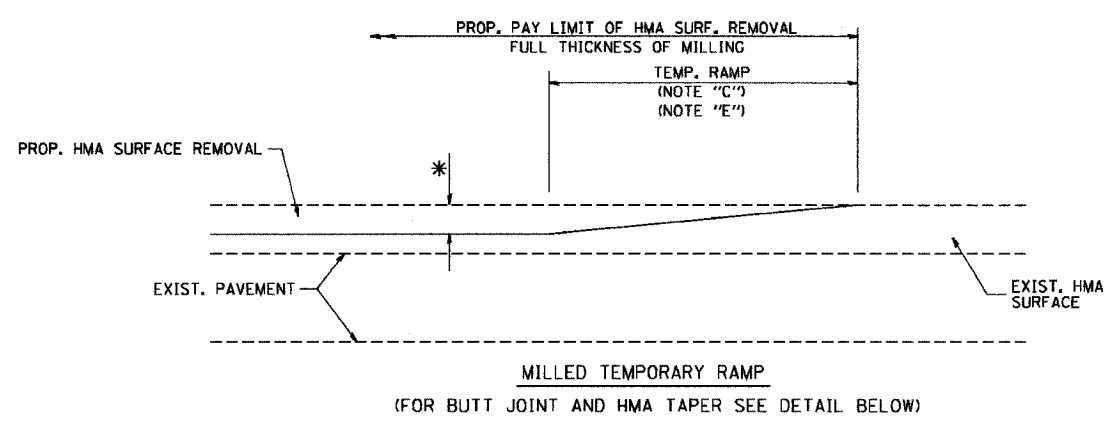
SCALE: NONE  
DRAWN BY CADD  
CHECKED BY

P.A. D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1621	08-00164-00-RS	COOK	11	11
STA.	TO STA.			
FED. ROAD DIST. NO.	BLK/MS	FED. RD PROJECT		

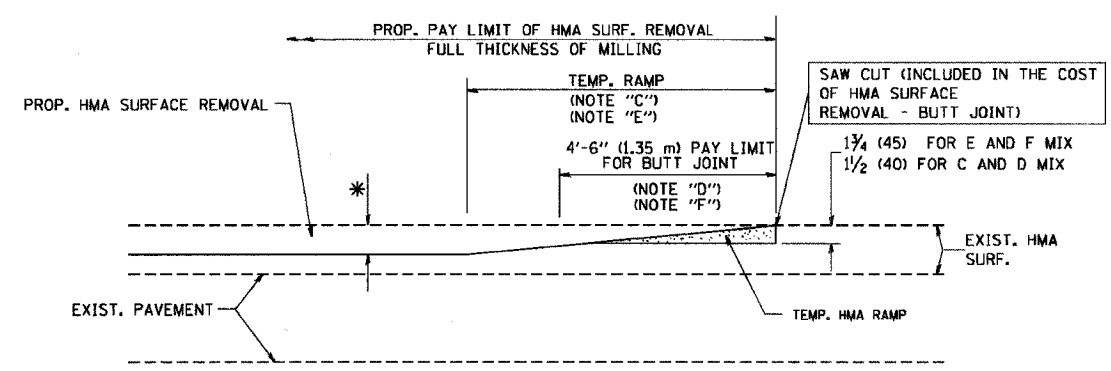
CONTRACT #63054

SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL - BUTT JOINT)

1 3/4 (45) FOR E AND F MIX  
1 1/2 (40) FOR C AND D MIX

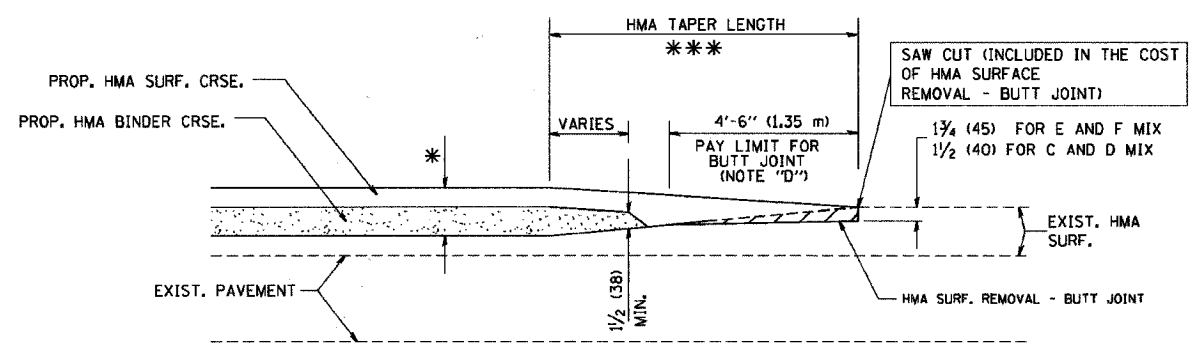


OPTION 1



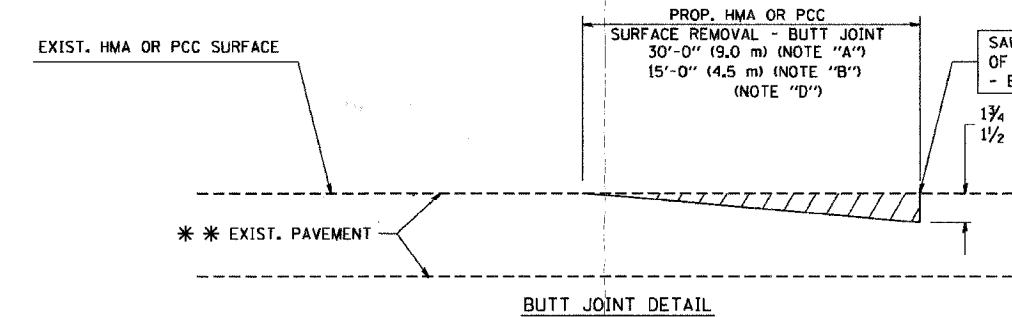
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2  
TYPICAL TEMPORARY RAMP

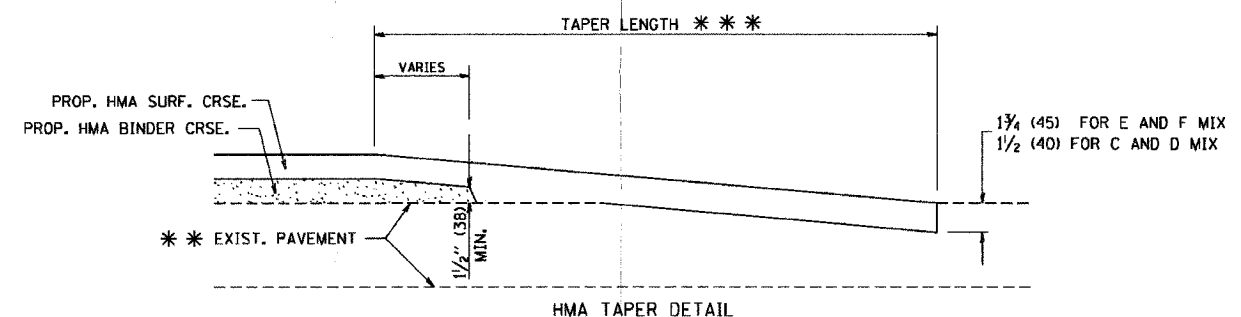


BUTT JOINT AND HMA TAPER

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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. COMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY