

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
A.R.R.A. PROGRAM (WHRRRP)
MORGAN COUNTY
SECTION 08-00101-00-SP

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	1

CONTRACT NO. 93493

INDEX OF SHEETS

- 1 COVER SHEET & REQUIRED STANDARDS
- 2 GENERAL NOTES, & TYPICAL SECTIONS
- 3 SUMMARY/SCHEDULE OF QUANTITIES
- 4-7 PLAN SHEETS
- 8-10 INTERSECTION LIGHTING/SIGNAL DETAILS
- 11 SPECIAL DETAILS

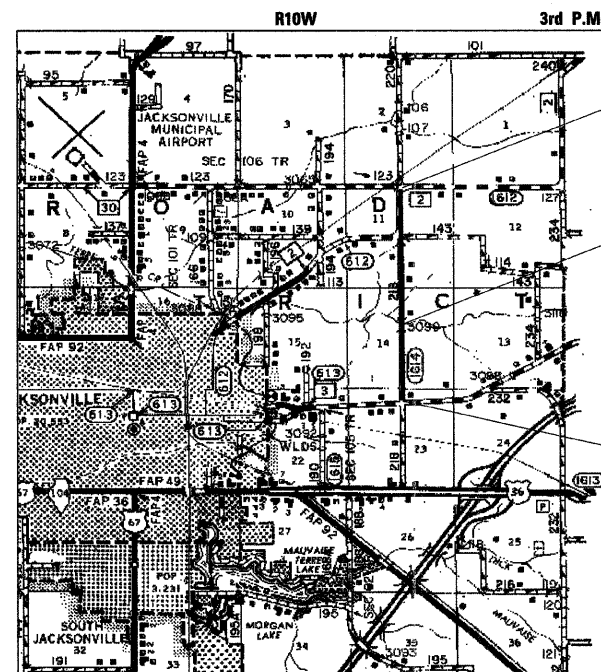
F.A.S. ROUTE 1614
PROJECT NO ARA-HRR-1614(104)
COUNTY HIGHWAY 32 (MOBIL ROAD)

FROM COUNTY HIGHWAY 3 (OLD STATE ROAD)
TO COUNTY HIGHWAY 2 (BALDWIN ROAD)

JOB NO C-96-247-09

- STANDARDS**
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 - 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
 - 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 - 701201-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
 - 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 701306-02 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45 MPH
 - 701311-03 LANE CLOSURE 2L, 2W, MOVING OPERATIONS-DAY ONLY
 - 701901-01 TRAFFIC CONTROL DEVICES
 - 720001-01 SIGN PANEL MOUNTING DETAILS
 - 720006-02 SIGN PANEL ERECTION DETAILS
 - 780001-02 TYPICAL PAVEMENT MARKINGS
 - 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
 - 814001-02 HANDHOLES
 - 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
 - BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

- GAS & ELECTRIC**
AMERENIP
JACKSONVILLE, ILLINOIS
- TELEPHONE**
VERIZON
JACKSONVILLE, ILLINOIS
- MCLEOD USA
FORSYTH, ILLINOIS
- WATER & SEWER**
NORTH MORGAN WATER CO-OP
JACKSONVILLE, ILLINOIS



SECTION 08-00101-00-SP
ENDS
STA 158+39.00

PAVING OMISSION
STA 85+18.00 to
STA 89+43.00

SECTION 08-00101-00-SP
BEGINS
STA 45+02.00

DESCRIPTION OF WORK

THIS PROJECT CONSISTS OF THE INSTALLATION OF INTERSECTION LIGHTING AND INTERMITTENT STOP INDICATOR WARNING LIGHTS AND ASSOCIATED SERVICE INSTALLATION, CONTROLLER, AND WIRING. ALSO INCLUDED IS THE RESURFACING OF MOBIL ROAD TO PROVIDE A 24' ROADWAY. THE PROPOSED SURFACE CONSISTS OF 1 1/2" OF HOT-MIX ASPHALT SURFACE COURSE OVER 7/4" OF A HOT-MIX ASPHALT LEVELING BINDER COURSE. AGGREGATE SHOULDERS, ENTRANCE UPGRADES, PAVEMENT MARKING AND OTHER RELATED WORK ARE ALSO PART OF THIS CONTRACT.

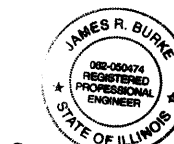
0 50' 100' 250' — FOR 1" = 50' HORIZONTAL PLAN

0 1 MILE 2 MILE 3 MILE
APPROXIMATE GRAPHIC SCALE

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.

TOTAL LENGTH OF PROJECT = 11,337.00 FEET = 2.147 MILES
NET LENGTH OF PROJECT = 10,912.00 FEET = 2.067 MILES

DESIGN DESIGNATION
FAS 1614
RURAL COLLECTOR (LAPP)
ADT = 1000 (2029)
% PV = 88
% SU = 7
% MU = 5



J.R. Burke 5/24/09
Exp 11/30/09

APPROVED May 26, 2009
Carl W. Hance
MORGAN COUNTY ENGINEER

PASSED MAY 27, 2009
James Fortner
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED May 29, 2009
Don DeLambear
DISTRICT SIX ENGINEER OF CONSTRUCTION

RELEASING FOR BID
BASED ON LIMITED
REVIEW Boyer D. Dinkel MAY 29, 2009

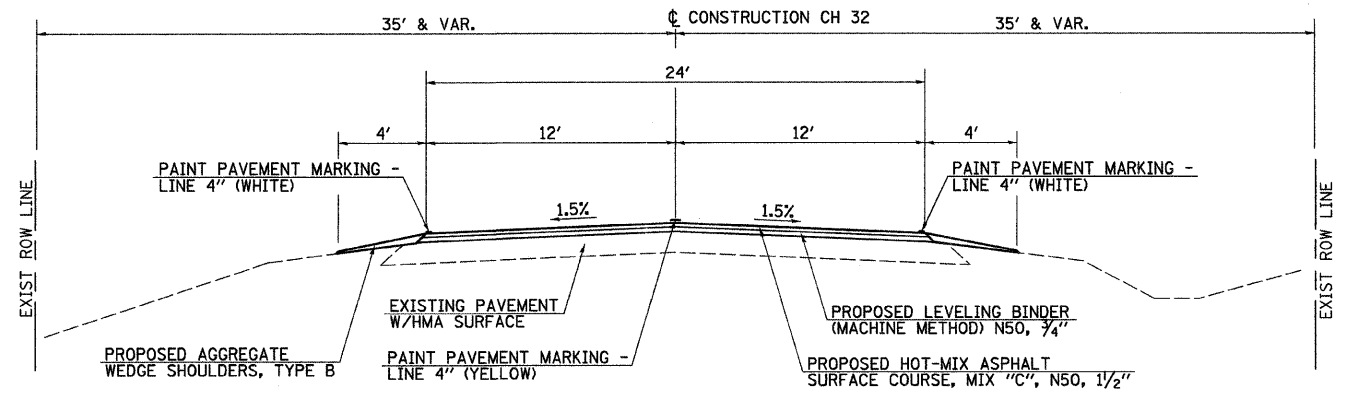
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Hutchison Engineering, Inc.
SINCE 1945
1801 West Lafayette
PO Box 820
Jacksonville, Illinois 62651
PHONE : (217)245-7164 FAX (217)243-0468

GENERAL NOTES

1. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY AND THE INDICATED ADJUSTMENTS OR RECONSTRUCTION ARE CONSIDERED TO BE REASONABLY ACCURATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY, AS DETAILED IN SECTION 563 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS, AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLE 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 (TEN) DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES AS REGARDS TO THEIR FACILITIES.
3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, GAS FACILITIES, AND ALL PUBLIC UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.
4. WHEN DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS PAVING.
5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS IMPROVEMENT.
6. TRAFFIC CONTROL SIGNS REMOVED MUST BE RESET AT THEIR PERMANENT LOCATIONS IN A WORKMANLIKE MANNER AND VISIBLE TO TRAFFIC ON THE ROADWAY. THESE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS', LATEST EDITION. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF THE EARTHWORK.
7. WHENEVER IT IS NECESSARY TO REMOVE EXISTING GRAVEL, CRUSHED STONE BASE OR EARTH, IN ORDER TO CONSTRUCT THE BITUMINOUS SHOULDERS, IT SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SHOULDERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.
8. THE NOMINAL THICKNESS FOR THE SURFACE COURSE IS SHOWN ON THE TYPICAL SECTION OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
9. WHERE SECTION OR SUBSECTION STONES OR MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
10. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN ON THE TABULATION OF REQUIRED STATE STANDARDS SHOWN IN THE PLANS.
11. ALL PROPOSED PAVEMENT WIDTHS ARE MEASURED EDGE TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN ON THE PLANS. INTERSECTION RETURN RADII ARE MEASURED TO THE EDGE OF PAVEMENT.
12. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USES	HMA SURF CSE	LEVELING BINDER, (MM)
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIX COMPOSITION (GRADATION MIXTURE)	SUPERPAVE IL-9.5 OR 12.5	SUPERPAVE IL-9.5
FRICITION AGGREGATE	MIX "C"	N/A



PROPOSED TYPICAL SECTION

STATION 45+02.00 TO STATION 85+18.00
 STATION 89+43.00 TO STATION 158+39.00
 PAVING OMISSION
 STATION 85+18.00 TO STATION 89+43.00

ORIGINAL SECTION WAS CONSTRUCTED
 IN 1993 AS SECTION 90-00062-00-FP

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USER NAME = jwhite
 PLOT SCALE = 20.0000' / 1" IN.
 PLOT DATE = 5/26/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY HIGHWAY 32 (MOBIL ROAD)
 GENERAL NOTES, LEGEND AND TYPICAL**

SCALE: N/A

SHEET NO. 1 OF 1 SHEETS

STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	2
				CONTRACT NO. 93493
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 1000	SPECIALTY ITEMS	
					LIGHTING Y030-1E	SIGNALS Y031-1F
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	35	35		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4,574	4,574		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,252	1,252		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	400	400		
40600990	TEMPORARY RAMP	SQ YD	107	107		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2,662	2,662		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	911	911		
67100100	MOBILIZATION	L SUM	1	1		
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2,042	2,042		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	29,883	29,883		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	29	29		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	340	340		
73000100	WOOD SIGN SUPPORT	FOOT	24			24
73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	2	2		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	29,883	29,883		
78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	29	29		
80500105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1			1
81000500	CONDUIT IN TRENCH, 1 1/2" DIA., GALVANIZED STEEL	FOOT	80			30
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	234			234
81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	38			38
81400100	HANDHOLE	EACH	3			3
81702420	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	272			272
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	80			30
82104250	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2			2
83057130	LIGHT POLE, WOOD, 25 FOOT, CLASS 5	EACH	1			1
83060820	LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., TENON MOUNT	EACH	2			2
83600355	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 6"	EACH	2			2
83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	8			8
85800100	FLASHER CONTROLLER	EACH	1			1
87301215	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	252			252
88000110	SIGNAL HEAD, 1-FACE, 1-SECTION, POST MOUNTED	EACH	2			2
XX008088	REMOVE AND REPLACE SIGN ASSEMBLY-TYPE A	EACH	2	2		

• SEE SPECIAL PROVISIONS

ENTRANCE & SIDE ROAD SCHEDULE

LOCATION	TYPE	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)
			TON	GALLON
49+10.2	FE		1.6	
50+05.0	FE		1.8	
53+13.7	FE		1.8	
63+05.9	FE		2.1	
73+52.6	MBTO	1.4		1.1
73+84.3	PE	4.2		3.3
77+41.0	PE	3.1		2.4
79+83.0	FE		1.6	
81+27.3	MBTO	1.4		1.1
81+42.3	PE	4.8		
84+00.0	PE		1.7	
91+87.5	FE		2.0	
93+05.7	PE	2.8		2.2
93+09.1	MBTO	1.4		1.1
94+00.0	MBTO	1.4		1.1
94+00.0	FE		1.4	
96+61.1	FE		1.6	
98+99.1	FE		1.6	
100+25.6	PE		1.4	
100+52.6	MBTO	1.4		1.1
100+75.6	PE		1.6	
105+50.0	MBTO	1.4		1.1
105+81.3	PE	3.6		2.8
107+61.4	PE		1.6	
109+41.4	PE		2.2	
111+46.6	PE		1.7	
113+16.5	PE	3.1		2.4
114+21.1	MBTO	1.4		1.1
114+34.3	PE	3.6		2.8
118+44.4	MBTO	1.4		1.1
118+53.4	PE		1.4	
120+31.1	PE		1.4	
120+01.6	MBTO	1.4		1.1
122+21.6	PE		3.4	
123+78.9	PE		1.4	
STRAWNS CROSSING	SIDE ROAD	19.9		15.6
DEORNELLAS	SIDE ROAD	11.5		9.0
145+89.1	FE		1.6	
PROJECT TOTAL		69.2	34.90	50.4
USE		70	35	51

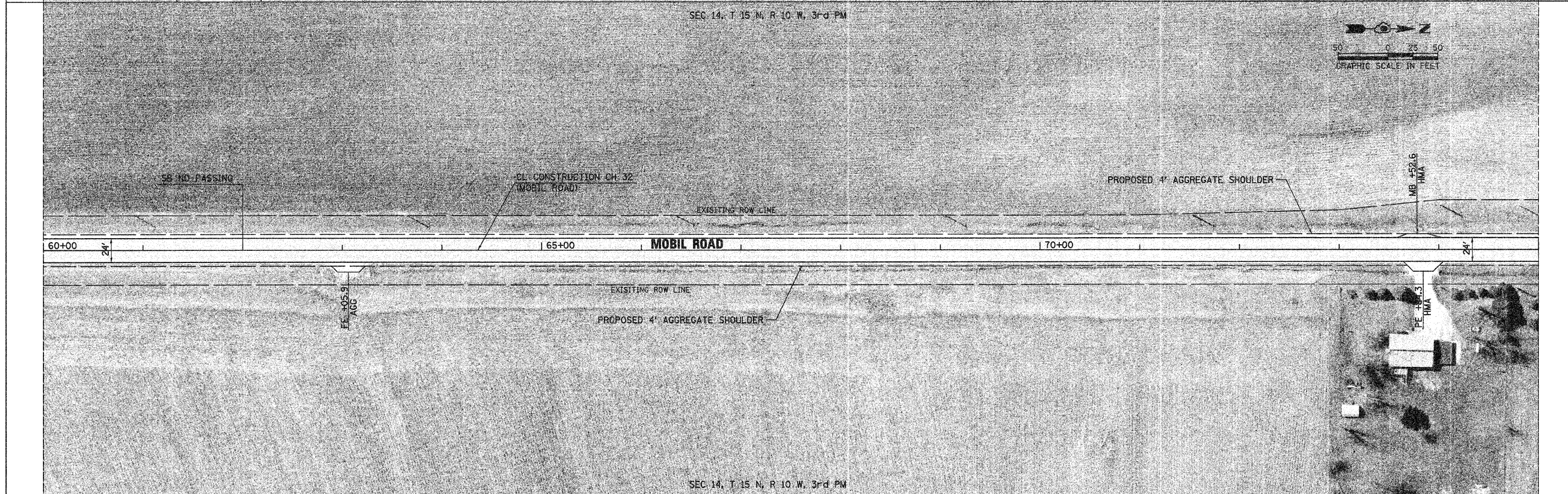
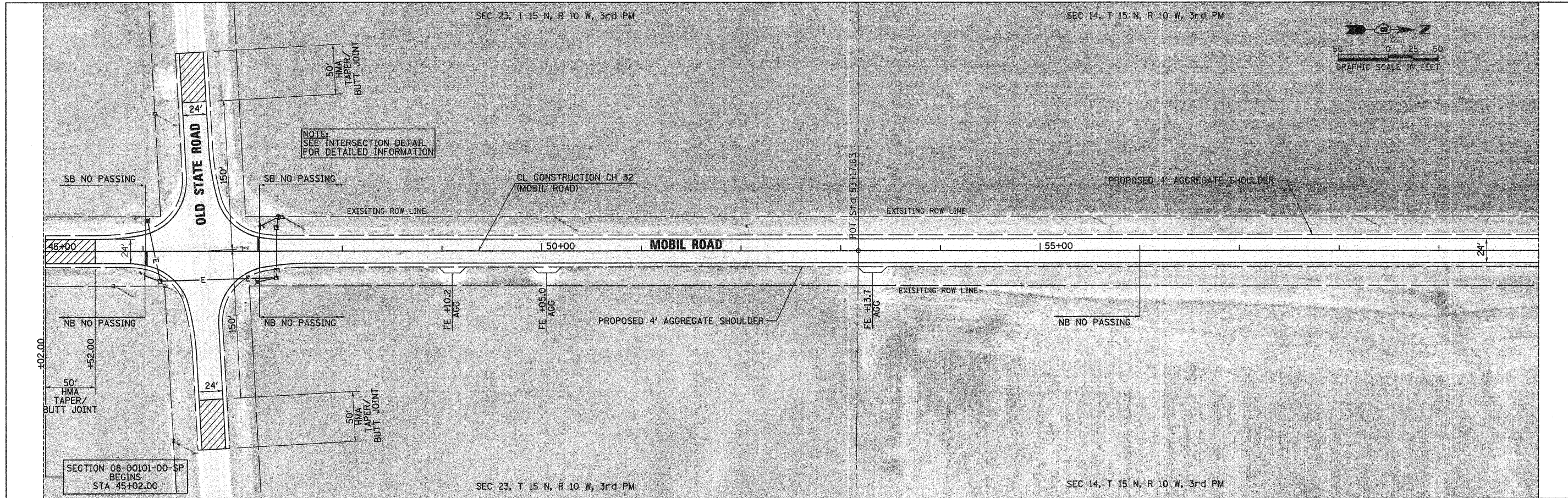
PAVEMENT MARKING SCHEDULE

LOCATION	SIDE	PAINT			PREFORMED PLASTIC
		4" SKIP-DASH, YELLOW	4" SOLID, YELLOW	4" SOLID, WHITE	24" SOLID, WHITE
FOOT					
45+02.0 TO 45+52.0	LT & RT		100.0	100.0	
45+52.0 TO 48+00.0	LT & RT		966.4	1078.8	29.0
48+00.0 TO 56+00.0	LT & RT		1600.0	1600.0	
56+00.0 TO 62+00.0	LT & RT	150.0	600.0	1200.0	
62+00.0 TO 105+00.0	LT & RT		1075.0	8600.0	
105+00.0 TO 113+00.0	LT & RT	200.0	800.0	1600.0	
113+00.0 TO 158+39.0	LT & RT		1134.8	9078.0	
PROJECT TOTAL		2559.8	4066.4	23256.8	29
USE			29883		29

PAVEMENT SCHEDULE

STATION TO STATION	SIDE	LEVELING BINDER (MACHINE METHOD) N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	TEMPORARY RAMPS	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
MOBIL ROAD							
45+02.0 TO 45+52.0	LT & RT		15.9	4.1	10.0	17.8	66.7
48+00.0 TO 84+68.0	LT & RT	411.8	821.6	300.8	1469.0		
84+68.0 TO 85+18.0	LT & RT		15.9	4.1	10.0	17.8	66.7
89+43.0 TO 89+93.0	LT & RT		15.9	4.1	10.0	17.8	66.7
89+93.0 TO 157+89.0	LT & RT	763.1	1522.3	557.3	2721.8		
157+89.0 TO 158+39.0	LT & RT		15.9	4.1	10.0	17.8	66.7
OLD STATE ROAD							
	LT & RT	76.3	183.8	36.5	291.9	35.6	133.3
PROJECT TOTAL		1,251.2	2591.3	911.0	4522.8	106.8	400.0
USE		1,252	2,592	911	4523	107	400

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	PLOT DATE = 5/26/2009	CHECKED -	REVISED -		CONTRACT NO. 93493							
		DATE -	REVISED -									



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	ILLINOIS FED. AID PROJECT												



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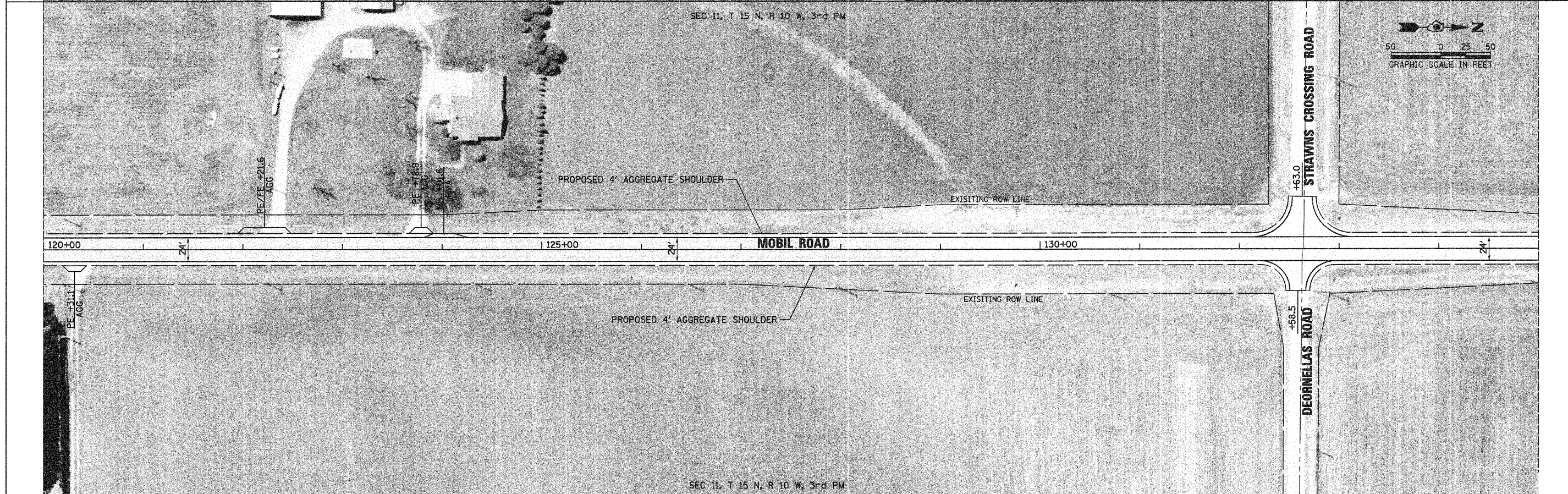
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DATE - 2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COUNTY HIGHWAY 32 (MOBIL ROAD) PROPOSED PLAN
STA 75+00.00 TO STA 105+00.00

SCALE: 1" = 50'
 SHEET NO. 2 OF 4 SHEETS
 STA. 75+00.00 TO STA. 105+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	5
CONTRACT NO. 93493				
ILLINOIS FED. AID PROJECT				



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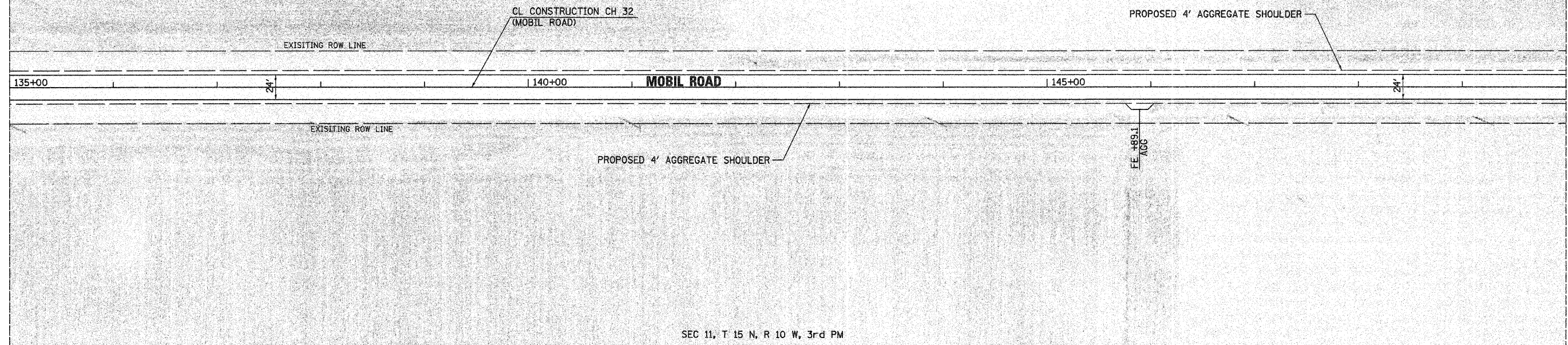
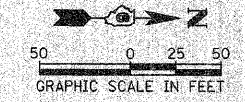
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COUNTY HIGHWAY 32 (MOBIL ROAD) PROPOSED PLAN
 STA 105+00.00 TO STA 135+00.00**

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. 105+00.00 TO STA. 135+00.00

F.A.S. RTE. 1614	SECTION 08-00101-00-SP	COUNTY MORGAN	TOTAL SHEETS 11	SHEET NO. 6
CONTRACT NO. 3493			ILLINOIS FED. AID PROJECT	

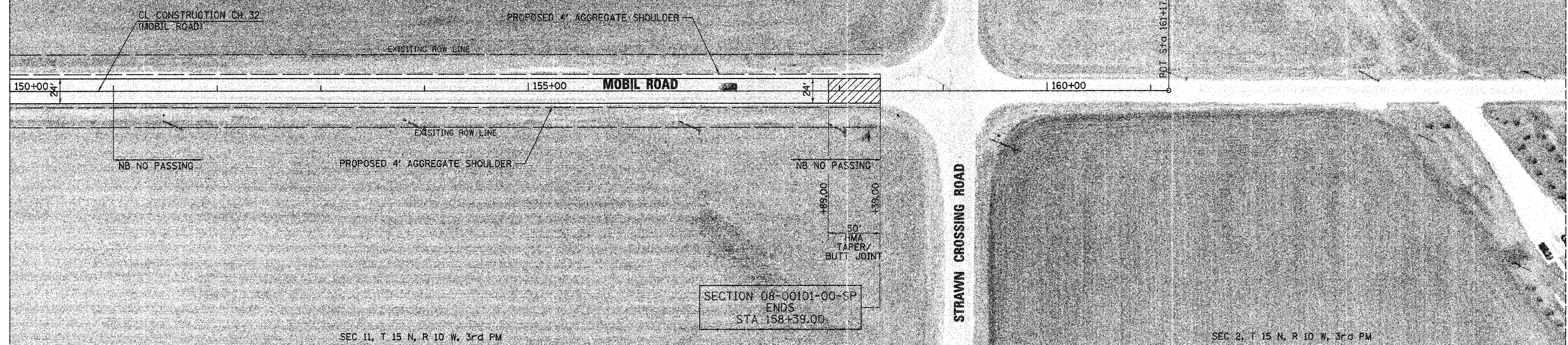
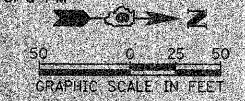
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SEC 11, T 15 N, R 10 W, 3rd PM

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SEC 2, T 15 N, R 10 W, 3rd PM

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PLOT DATE = 5/26/2009

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 32 (MOBIL ROAD) PROPOSED PLAN
STA 135+00.00 TO STA 158+39.00

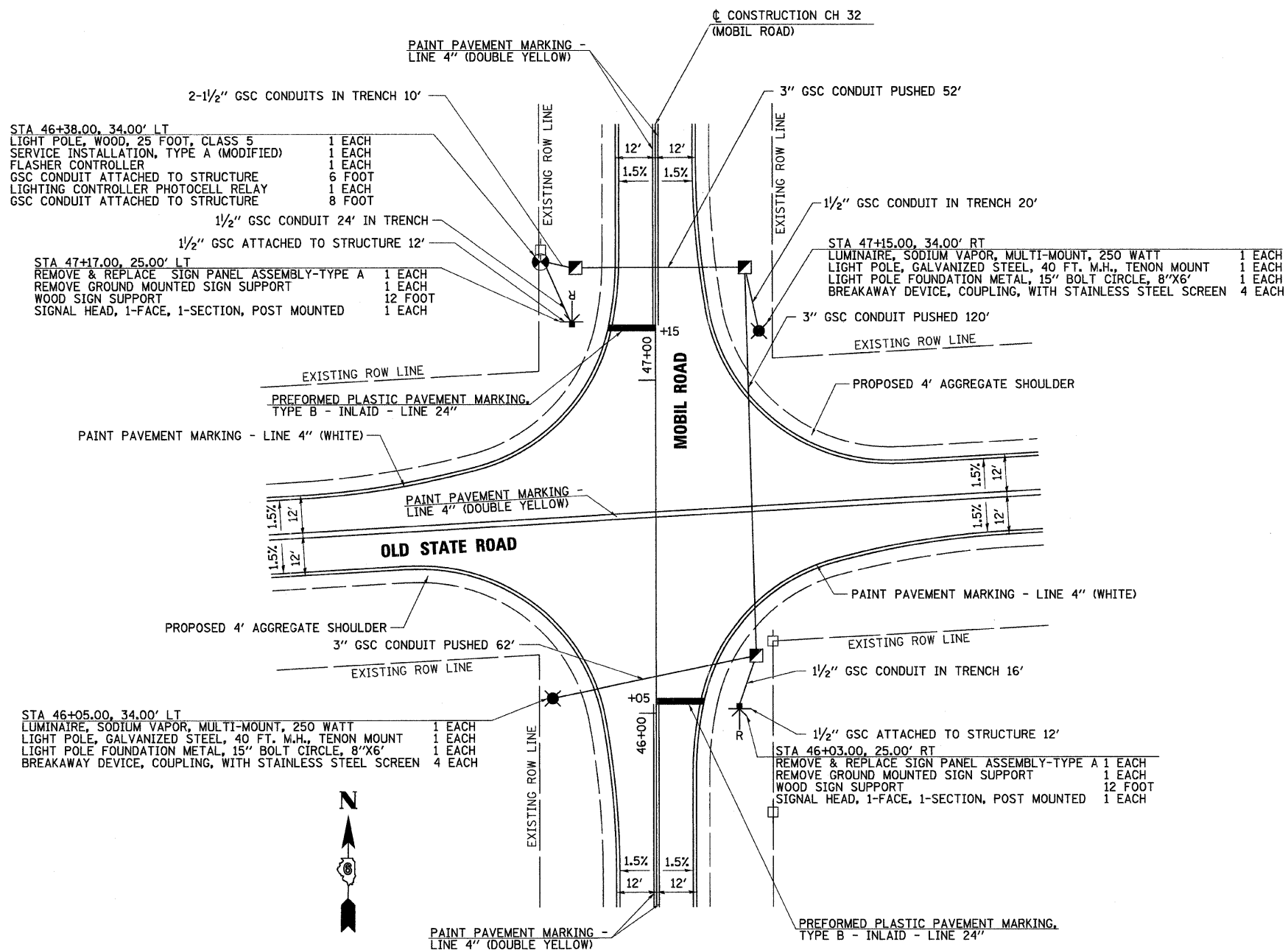
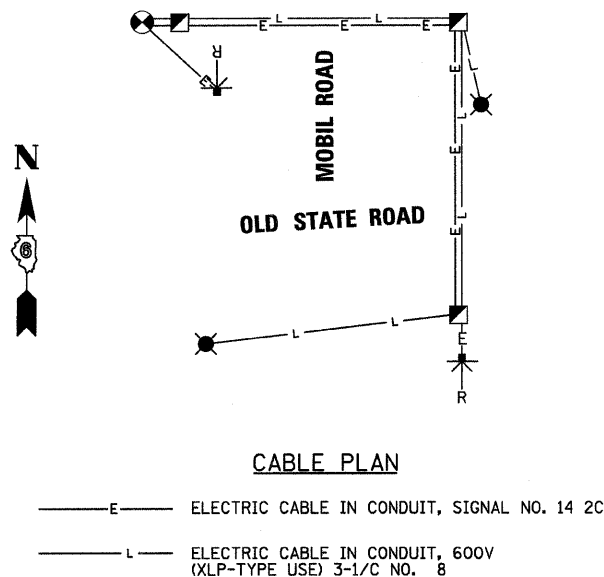
SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. 135+00.00 TO STA. 158+39.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	7
CONTRACT NO. 93493				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 1-800-0123 OR 811).
2. ALL CONDUIT IRREGARDLESS OF APPLICATION SHALL BE GALVANIZED STEEL.
3. A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANHOLES AND FLASHERS OR CONTROLLER. COST TO BE CONSIDERED INCLUDED IN CONDUIT PAY ITEM.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INCLUDING THE SIZE AND LENGTH OF CABLE REQUIRED TO REACH THE TRANSFORMER. FURNISHING THE CABLE TO THE TRANSFORMER WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR THE INSTALLATION, TYPE A (MODIFIED).
5. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
6. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS MAY BE NECESSARY. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONDUIT PAY ITEM.
8. ALL THREADS OF BOLTS USED IN ASSEMBLY OF THE TRAFFIC SIGN COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SIEZE COMPOUND, PRIOR TO ASSEMBLY.
9. ALL FLASHING BEACONS HEADS SHALL BE 12"
10. USE DIRECT BURIAL PROPOSED WOOD SIGN SUPPORTS.

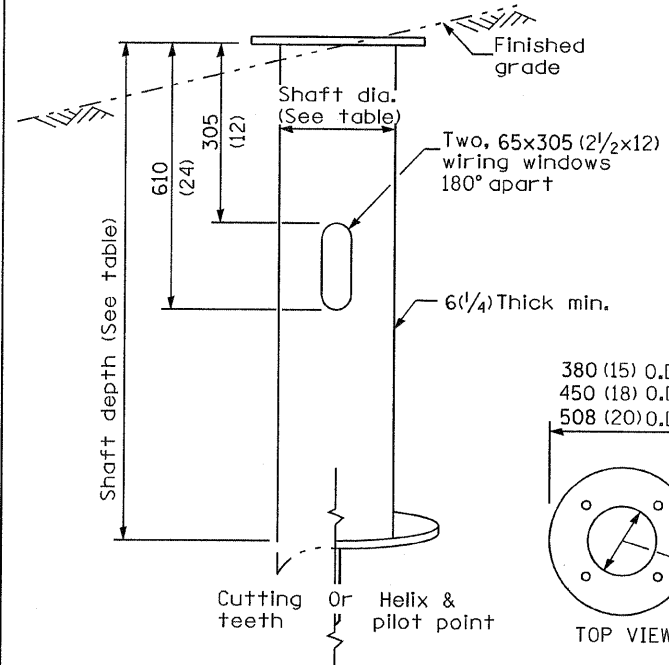
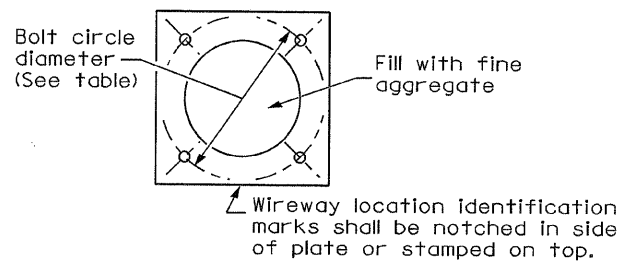
ELECTRICAL LOAD CHART			
COMPONENT	NUMBER	WATTAGE	BURN TIME
		EACH	%
SIGNAL	2	135	50
LUMINAIRE	2	250	100



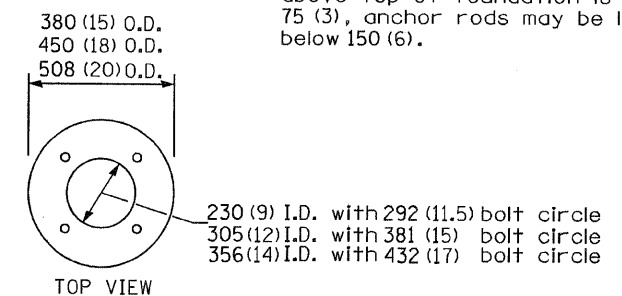
FILE NAME = V:\2711\2711L001.dgn	USER NAME = jburke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY 32 (MOBIL ROAD) PROPOSED INTERSECTION LIGHTING/SIGNAL DETAILS	F.A.S. RTE. 1614	SECTION 08-00101-00-SP	COUNTY MORGAN	TOTAL SHEETS 11	SHEET NO. 8		
	PLOT SCALE = 10,000 Ft / IN.	CHECKED -	REVISED -			SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 93493			
	PLOT DATE = 5/26/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
V:\2711\2711T001.DGN												

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
<9.1 m (30')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



STEEL FOUNDATION



RING PLATE DETAIL

(When rock is encountered and foundation is shallower)

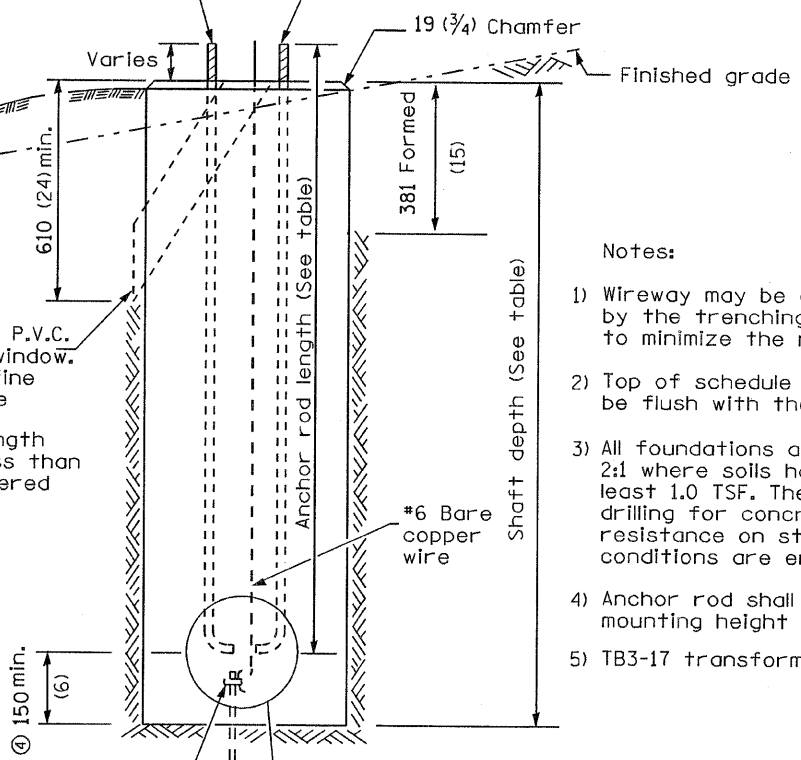
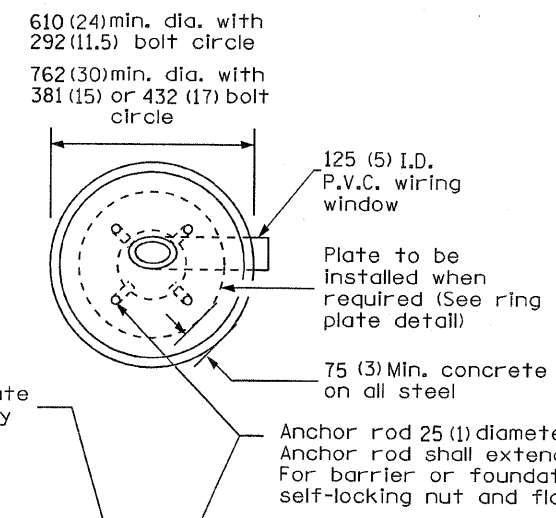
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

Cast bronze clamp
16 mm x 3 m (5/8" x 10')
Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

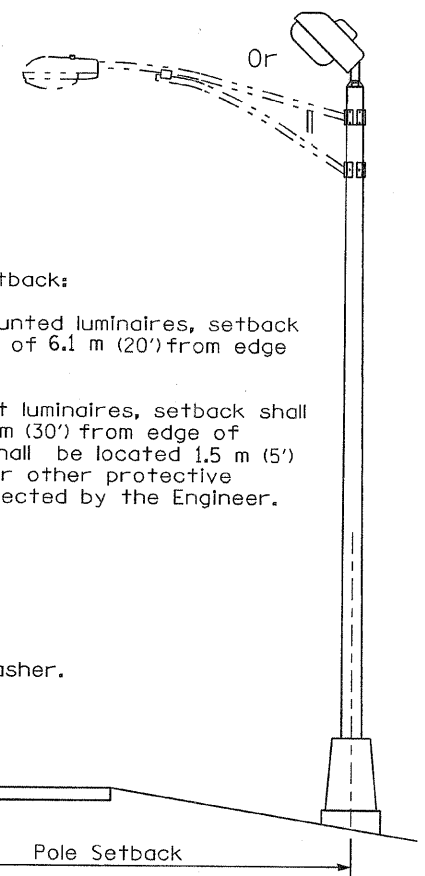
CONCRETE FOUNDATION



Notes:

- 1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- 4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

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



DATE	REVISIONS
10/7/02	Bridge Office depth calc.

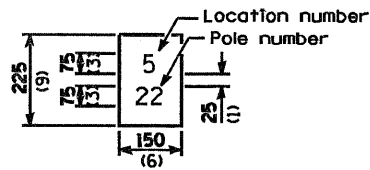
LIGHT POLE FOUNDATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	9
CONTRACT NO. 3493				

ILLINOIS FED. AID PROJECT

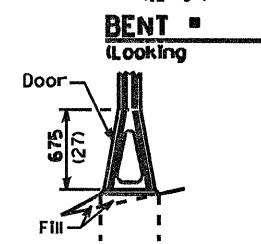
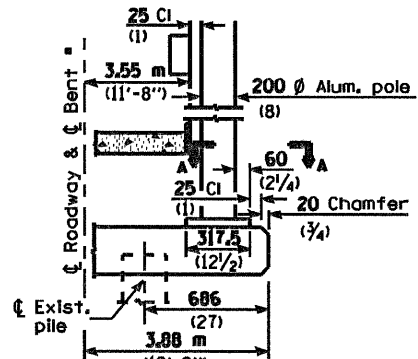
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (3/4) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional 1/4 to 3/8 turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m² (4.0 sq. ft.) E.P.A. luminaire.



The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section 1602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

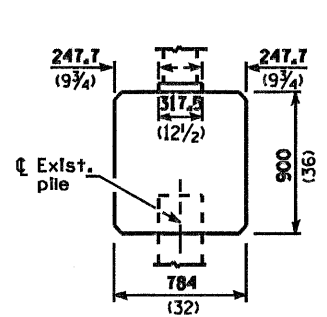
The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.



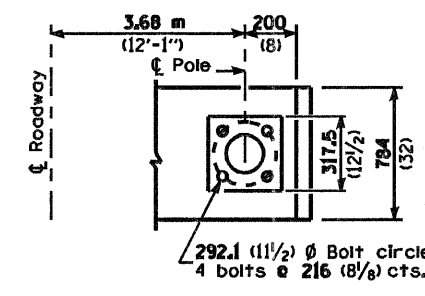
STAINLESS STEEL FLAIR BASE

TRANSFORMER BASE

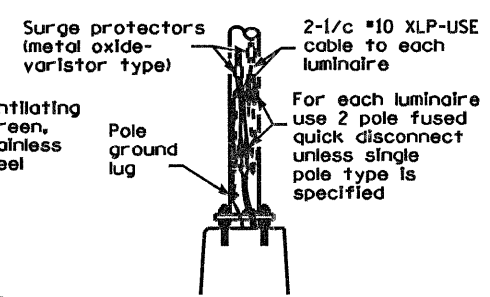
BREAKAWAY COUPLING



BRIDGE PIER MOUNT



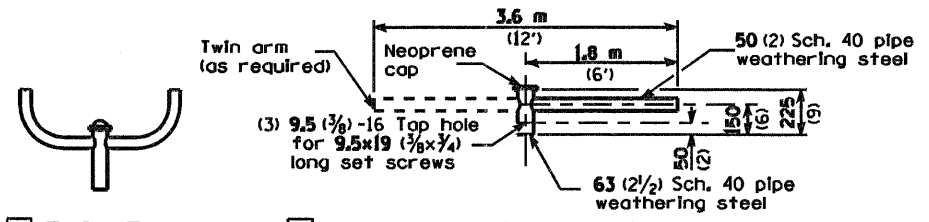
SECTION A-A



ANCHOR

METAL OR **CONCRETE**

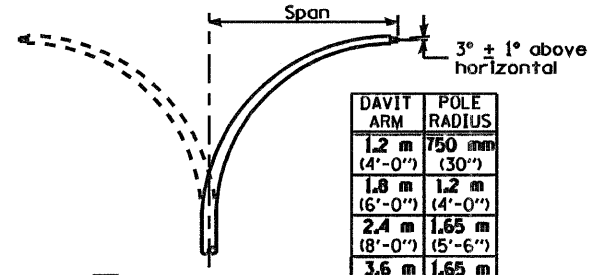
Details for underground distribution if required



TWIN TENON

TENON MOUNT BRACKET ARM

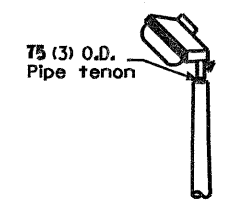
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



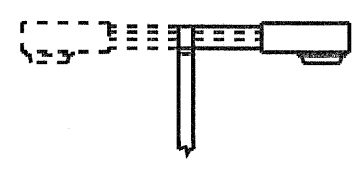
DAVIT ARM

DAVIT ARM-TWIN

DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")
3.6 m (12'-0")	1.65 m (5'-6")

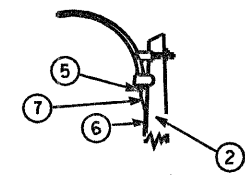


TENON

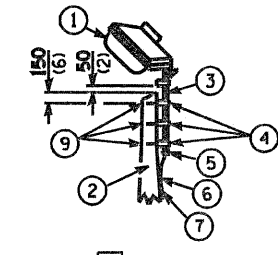


SHORT BRACKET

SHORT BRACKET - TWIN

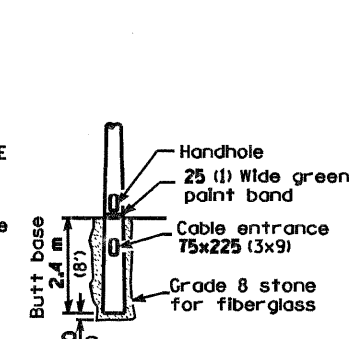


MAST ARM

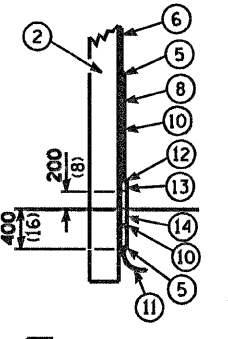


TENON

- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type use cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



BUTT BASE



POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

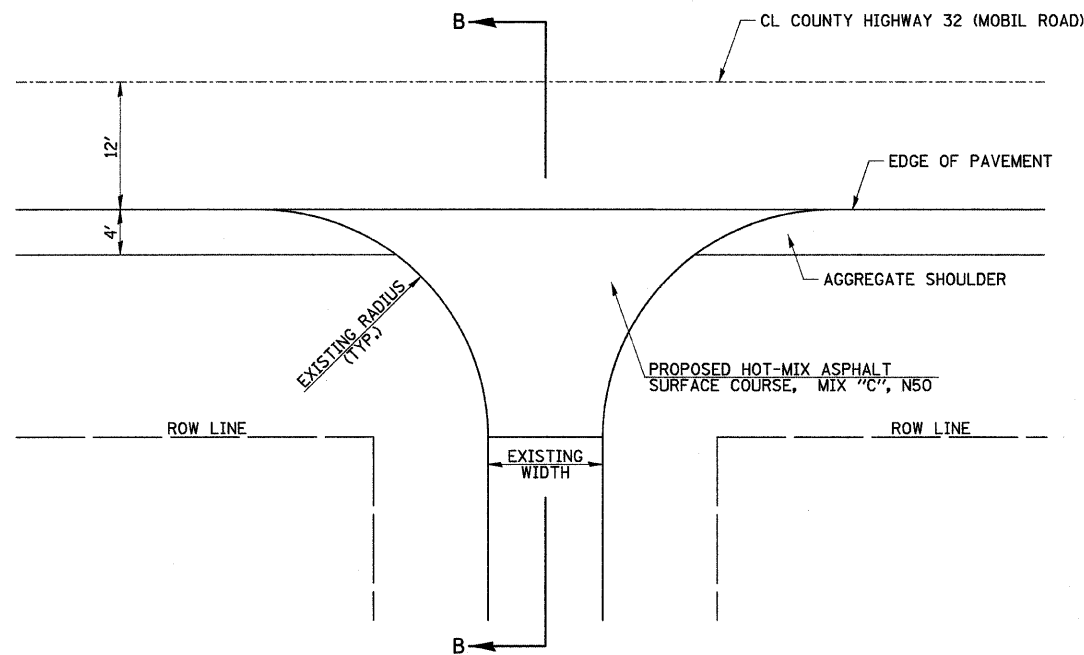
All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS

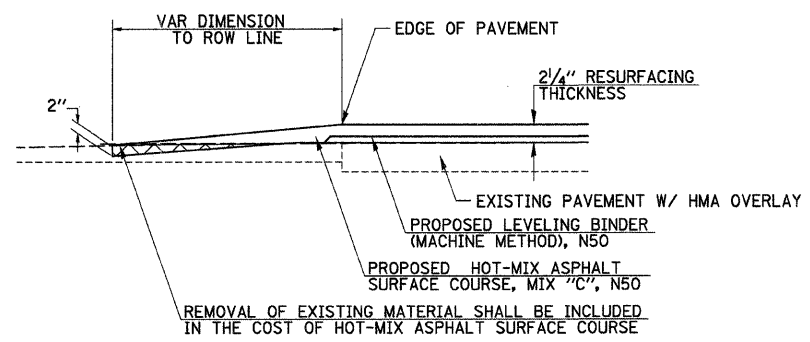
POLE STANDARDS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1614	08-00101-00-SP	MORGAN	11	10
				CONTRACT NO. 9 3 4 9 3
ILLINOIS FED. AID PROJECT				

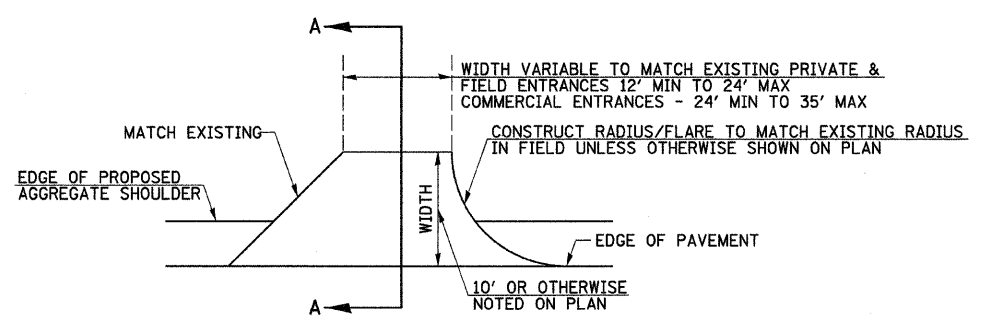
LGTO08.M32



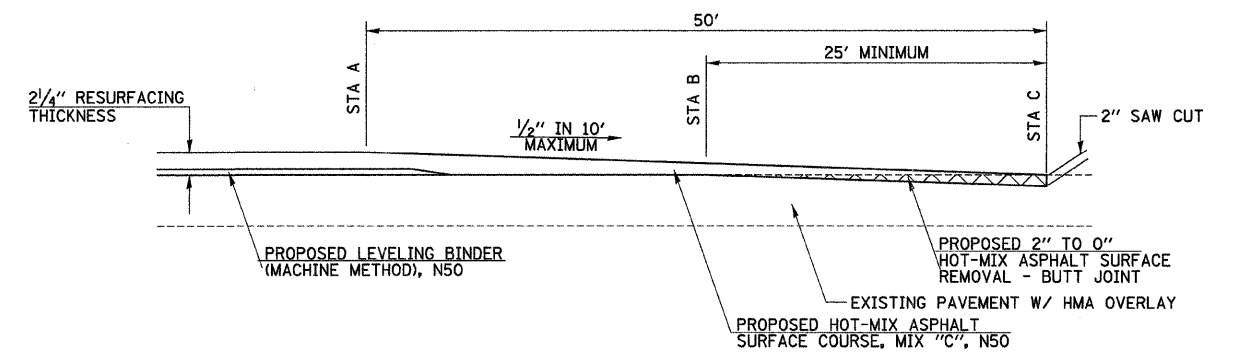
PLAN OF SIDEROAD TAPER



SECTION B-B
PROPOSED SIDEROAD TAPER

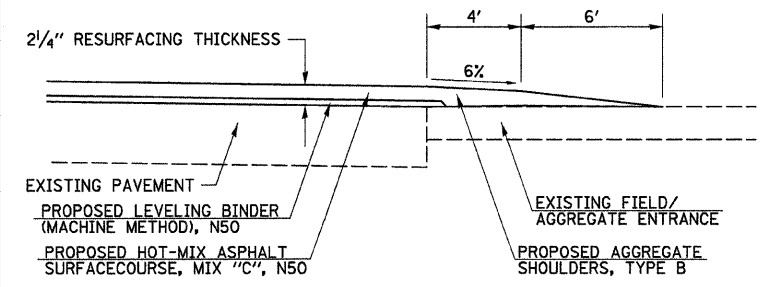


PLAN VIEW
OF
AGGREGATE PRIVATE/FIELD ENTRANCES
BITUMINOUS PRIVATE ENTRANCES

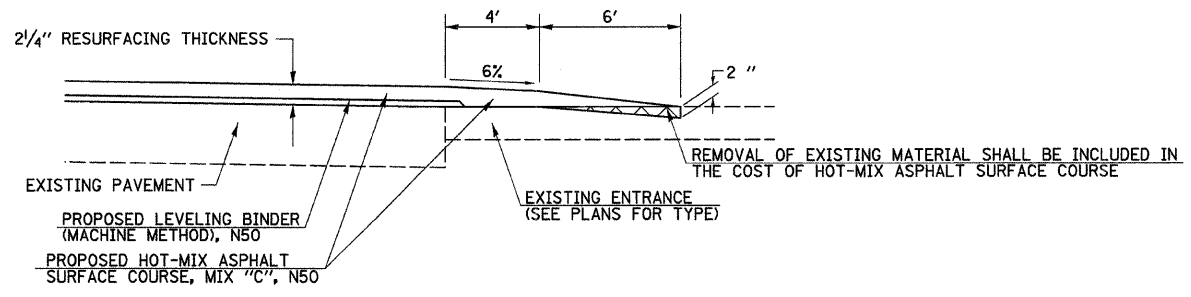


STA A	STA B	STA C
45+52.00	45+27.00	45+02.00
84+68.00	84+93.00	85+18.00
89+93.00	89+68.00	89+43.00
157+89.00	158+14.00	158+39.00

HMA TAPER/BUTT JOINT DETAIL



SECTION A-A
AGGREGATE PRIVATE/FIELD ENTRANCES



SECTION A-A
BITUMINOUS PRIVATE ENTRANCES

ENTRANCE TAPERS

FILE NAME = V:\2711\2711d001.dgn	USER NAME = jwhite	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY 32 (MOBIL ROAD) SPECIAL DETAILS			F.A.S. RTE. 1614	SECTION 08-00101-00-SP	COUNTY MORGAN	TOTAL SHEETS 11	SHEET NO. 11
	PLOT SCALE = 1.0000' / IN.	DRAWN -	REVISD -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 93493				
	PLOT DATE = 5/26/2009	CHECKED -	REVISD -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISD -									