

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

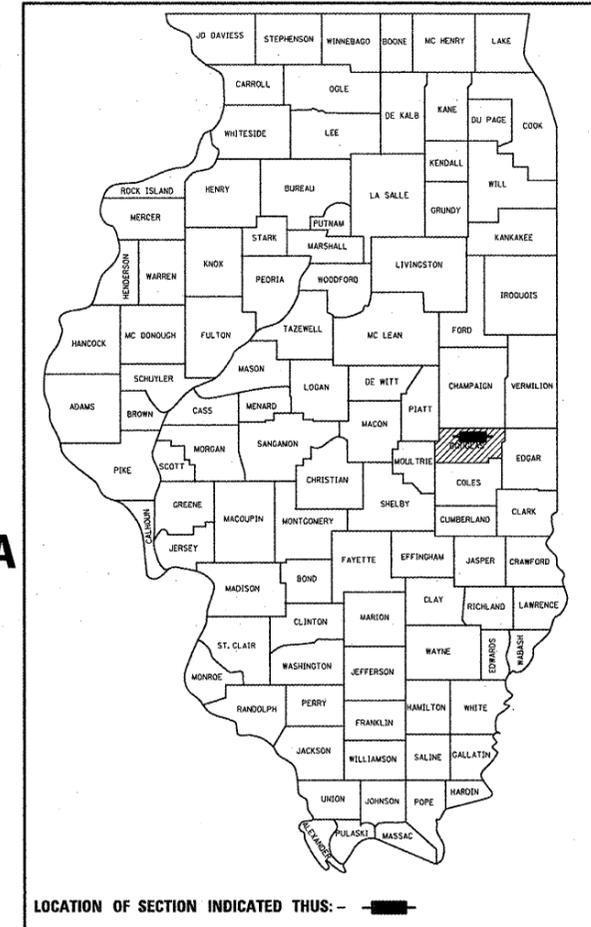
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 323 (US 36)
SECTION (144R)RS-2 & 145RS-3
RESURFACING INTERMITTENT
DOUGLAS COUNTY
HAYES BRANCH DITCH TO TR 122 E OF TUSCOLA
PROJECT NHF-0323(030)

C-95-025-11

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------------|----------|--------------------|-----------|
| 323 | (144R)RS-2 & 145RS-3 | DOUGLAS | 21 | 1 |
| | | ILLINOIS | CONTRACT NO. 70902 | |

D-95-025-11



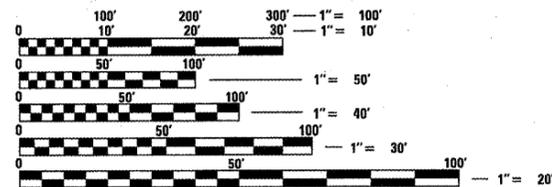
STRUCTURE INFORMATION

S.N.
021-8017

SCOPE OF WORK
MILL & INLAY

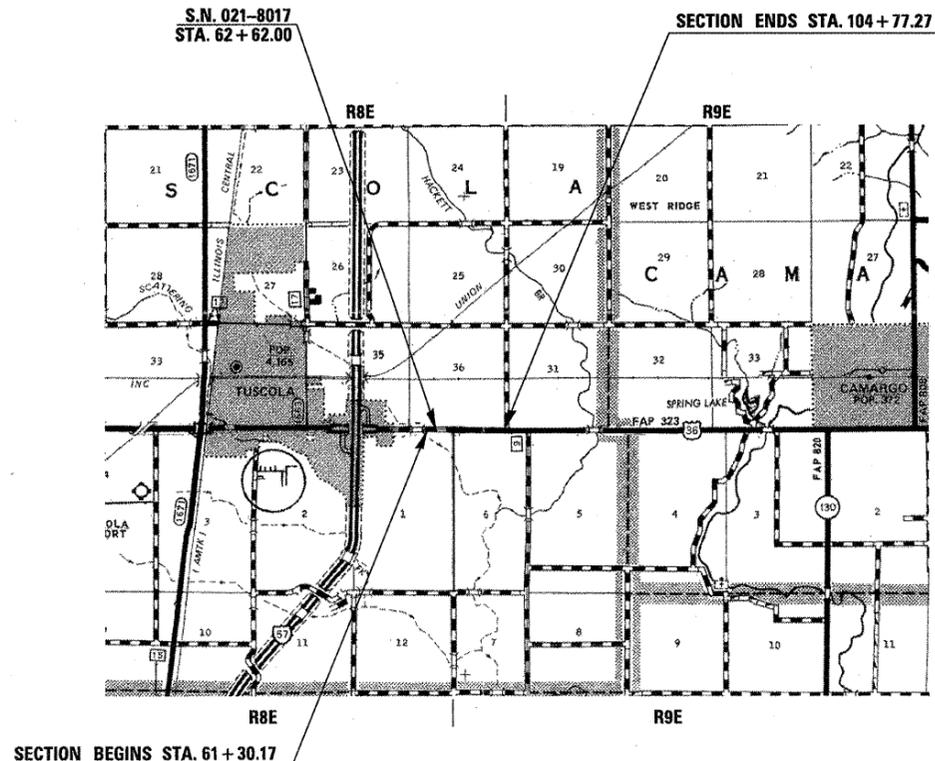
CURRENT ADT

OTHER PRINCIPAL ARTERIAL
FAP 323 (US 36) = 5,300 (2011)
SU = 4.9% MU = 4.7%



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 TOWNSHIPS
OR 811 TUSCOLA



SECTION BEGINS STA. 61+30.17

SECTION ENDS STA. 104+77.27

GROSS LENGTH = 4,347.10 FT. = 0.823 MILE
NET LENGTH = 4,347.10 FT. = 0.823 MILE

PROJECT ENGINEER: NANCY FASIG
SQUAD LEADER: STEVE COOMBES
(217) 465-4181

CONTRACT NO. 70902

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1/30 20 12

Justin A. Coombes
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23 20 12
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23 20 12
William R. Frey
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

| SHEET | DESCRIPTION |
|-------|--|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS |
| 3 | GENERAL NOTES |
| 4-5 | SUMMARY OF QUANTITIES |
| 6-7 | EXISTING & PROPOSED TYPICAL SECTIONS |
| 8-9 | SCHEDULE OF QUANTITIES |
| 10 | CENTERLINE TIE POINTS |
| 11 | SURVEY MONUMENT TIE POINTS |
| 12 | WHITETOPPING CORING REPORT DETAILS |
| 13 | BUTT JOINT DETAILS |
| 14 | DETAIL OF PRIVATE AND COMMERCIAL ENTRANCES AND MAILBOX TURNOUTS |
| 15-18 | PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS) DETAIL |
| 19 | SURVEY MARKER VAULT (DETAIL) |
| 20 | SURVEY MARKERS TYPE 1 & 2 (SPECIAL) DETAIL |
| 21 | SURVEY COVER ASSEMBLY |

LIST OF HIGHWAY STANDARDS

| STANDARD | DESCRIPTION |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 406201-01 | MAILBOX TURNOUT |
| 701006-03 | OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-03 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \geq 45 MPH |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701901-02 | TRAFFIC CONTROL DEVICES |
| 780001-03 | TYPICAL PAVEMENT MARKINGS |
| 781001-03 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |

| | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|--|--------------------|---------------------|---------|-----------------|---------------------------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS & HIGHWAY STANDARDS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwwork\pwwork\coombessf\02282854\0570902-sht-genote.dgn | 70902-sht-genote.dgn | DRAWN - | REVISED - | | | 323 | (144RRS-2 & 145RS-3 | DOUGLAS | 21 | 2 |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - | REVISED - | | | CONTRACT NO. 70902 | | | | |
| PLOT DATE = 1/26/2012 | DATE - | REVISED - | REVISED - | | SCALE: | SHEET NO. OF | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A

ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406.05b

ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| Location(s): | US 36 | US 36 | US 36 |
|---|------------------|------------------------------|------------------|
| Mixture Use(s): | POLY FG BINDER | POLY SURFACE / HMA SHOULDERS | INCIDENTAL |
| AC/PG: | SBS PG 70-22 | SBS PG 70-22 | PG 64-22 |
| RAP %: (Max)** | 10% | 10% | 10% |
| Design Air Voids: | 4.0% @ Ndes = 90 | 4.0% @ Ndes = 90 | 4.0% @ Ndes = 90 |
| Mixture Composition: (Gradation Mixture) | IL 19.0 FG | IL 9.5 | IL 9.5 |
| Friction Aggregate: | N.A. | MIX D | MIX C |

G.N.-482

ALL MATERIAL PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 TO 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION SHOULDER MIXES AND OTHER MIXES (BOTTOM LIFT OF SHOULDERS). THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L MIXES AND OTHER MIXES USING STANDARD CORRELATION PROCEDURES.

G.N.-667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT OF THESE MARKERS.

G.N.-703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

COMMITMENTS:

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

| | | | | | | | | | | |
|---|-----------------------|------------|-----------------------------|---|----------------------|---------------------|---------|--------|-----------------|--------------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 01:\pwork\puidat\coombessf\0282854\0270902-sht-genote.dgn | DRAWN - | REVISED - | 323 | | | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 3 | |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - | CONTRACT NO. 70902 | | | | | | | |
| PLOT DATE = 1/13/2012 | DATE - | REVISED - | [ILLINOIS] FED. AID PROJECT | | | | | | | |
| | | | | SCALE: | SHEET NO. OF SHEETS | STA. | TO STA. | | | |

SUMMARY OF QUANTITIES

| CODE NO. | DESCRIPTION | FUNDING BREAKOUT: CONSTRUCTION TYPE CODE: | | RURAL TWO LANE 80 % FED / 20 % STATE |
|------------|---|--|----------|---|
| | | UNIT | QUANTITY | 0005 |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 914.0 | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 9,916.0 | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 156.0 | |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 9,916.0 | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 55.0 | |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 55.0 | |
| X4400100 | PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH) | SQ YD | 11,593.0 | |
| X4400196 | HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL | SQ YD | 246.0 | |
| X4404260 | PAVED SHOULDER REMOVAL (SPECIAL) | SQ YD | 389.0 | |
| XZ193400 | SURVEY MARKER, TYPE 2 (SPECIAL) | EACH | 3.0 | |
| Z0070202 | SURVEY MARKER VAULT | EACH | 3.0 | |

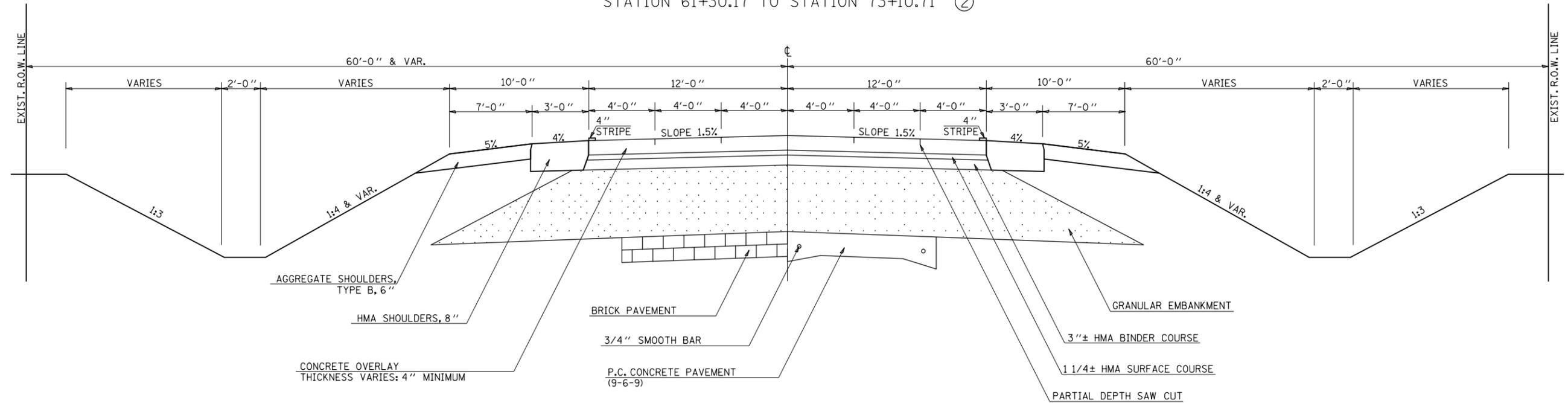
*SPECIALTY ITEMS

| | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|------------|-----------|---|------------------------------|-----------|----|--------|----------------|---------|--------|---------------------|--------------|----|---|
| FILE NAME = | USER NAME = ccoombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| c:\pwwork\pwwork\ccombessf\02282854\0 | 70902-shr-500.dgn | DRAWN - | REVISED - | | SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. | 323 | (144RDRS & 145RS-3) | DOUGLAS | 21 | 5 |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - | | CONTRACT NO. 70902 | | | | | | | | | | |
| | PLOT DATE = 1/26/2012 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | | | | |

EXISTING TYPICAL CROSS SECTION ①

FAP 323 (US 36)

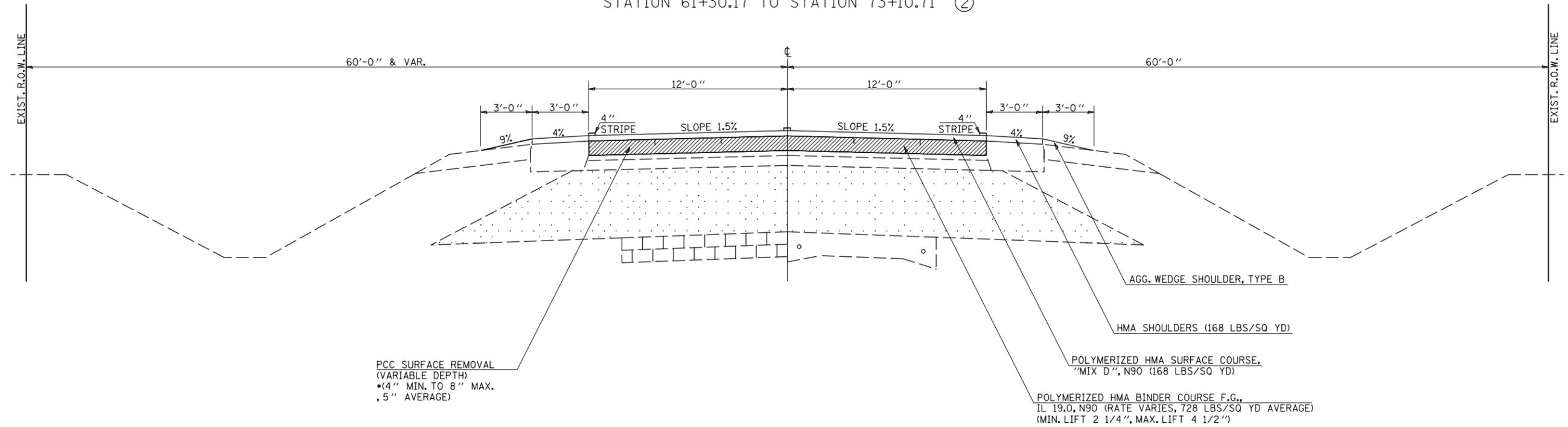
STATION 61+30.17 TO STATION 73+10.71 ②



PROPOSED TYPICAL CROSS SECTION ①

FAP 323 (US 36)

STATION 61+30.17 TO STATION 73+10.71 ②

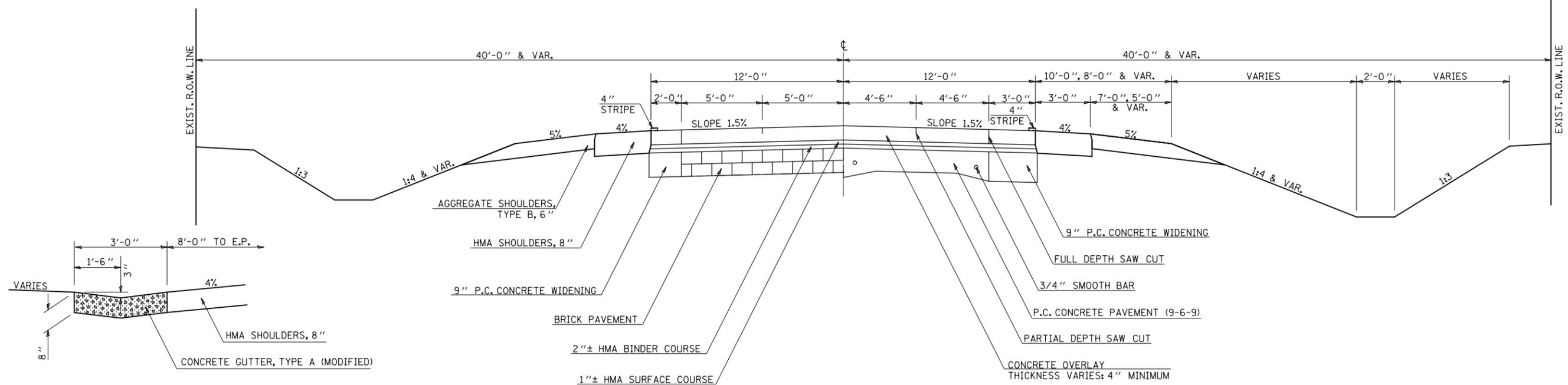


| | | | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|-------------------------------|---------------------|--------------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL CROSS SECTIONS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw\work\p\dot\coombessf\d0282854\0570902-sht-typical.dgn | | DRAWN - | REVISED - | | 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 6 | | | |
| PLOT SCALE = 40.0000' / in. | | CHECKED - | REVISED - | | CONTRACT NO. 70902 | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT DATE = 1/13/2012 | | DATE - | REVISED - | | SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | | | | | |

EXISTING TYPICAL CROSS SECTION ②

FAP 323 (US 36)

① STATION 73+10.71 TO STATION 104+77.27



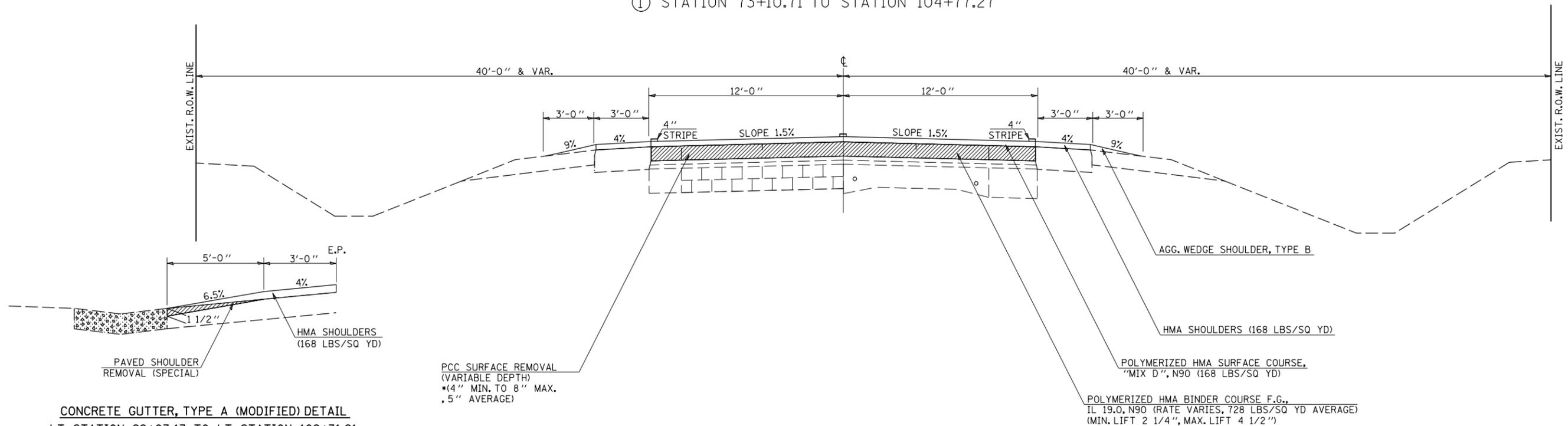
CONCRETE GUTTER, TYPE A (MODIFIED) DETAIL

LT. STATION 99+03.13 TO LT. STATION 102+31.21
RT. STATION 97+88.30 TO RT. STATION 101+59.03

PROPOSED TYPICAL CROSS SECTION ②

FAP 323 (US 36)

① STATION 73+10.71 TO STATION 104+77.27



CONCRETE GUTTER, TYPE A (MODIFIED) DETAIL

LT. STATION 99+03.13 TO LT. STATION 102+31.21
RT. STATION 97+88.30 TO RT. STATION 101+59.03

| | | | | | | | | | | | | |
|---|-----------------------|------------|-----------|---|-------------------------------|---------------------|--------------|---------------------------|---------------------|---------|--------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL CROSS SECTIONS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ci:\pw\work\p\id\dot\coombessf\d0282854\0570902-sht-typical.dgn | | DRAWN - | REVISED - | | SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 7 |
| | | CHECKED - | REVISED - | | | | | CONTRACT NO. 70902 | | | | |
| | | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |

SCHEDULE OF QUANTITIES

| SCHEDULE OF MAINLINE RESURFACING QUANTITIES | | | | | | | | | | | |
|---|----------|----|----------|-----------|--|--|---|---------------------------------------|---------------------------------------|--|--|
| LOCATION | | | | | X4400100 | X4404260 | 40600100 | 40600300 | 40603243 | 40603545 | 48203100 |
| | | | | | PCC SURFACE REMOVAL (VARIABLE DEPTH) (SQ YD) | PAVED SHOULDER REMOVAL (SPECIAL) (SQ YD) | BITUMINOUS MATERIALS (PRIME COAT) (GAL) | AGGREGATE (PRIME COAT) (TON) | POLY HMA BINDER COURSE (TON) | POLY HMA SURFACE COURSE 1 1/2" (TON) | HOT-MIX ASPHALT SHOULDERS (TON) |
| STA. | 61+30.17 | TO | STA. | 104+77.27 | 11,592.3 | | | | | | |
| STA. | 61+00.17 | TO | STA. | 105+07.27 | | | 3,826.3 | 76.5 | 4,219.6 | 987.2 | 279.4 |
| STA.(RT) | 97+88.30 | TO | STA.(RT) | 101+59.03 | | 206.0 | | | | | |
| STA.(LT) | 99+03.13 | TO | STA.(LT) | 102+31.21 | | 182.3 | | | | | |
| TOTAL = | | | | | 11,592.3 | 388.3 | 3,826.3 | 76.5 | 4,219.6 | 987.2 | 279.4 |
| USE = | | | | | 11,593.0 | 389.0 | 3,827.0 | 77.0 | 4,220.0 | 988.0 | 280.0 |

| SCHEDULE OF INCIDENTAL RESURFACING AT ENTRANCES | | | | | | | | | | |
|---|----------|------|--------------------------|---------------|-------------------------------|---------------------------------------|---|--|------------------------------------|--|
| SIDE | STATION | TYPE | AVERAGE WIDTH (FT) | DEPTH (FT) | AREA TO RESURF. (SQ YD) | 40800050 | X4400196 | 40800010 | 40800030 | |
| | | | | | | INCIDENTAL HMA SURFACE (TON) | HMA SURF. REM. SPECIAL (SQ YD) | BITUMINOUS MATERIALS (PRIME COAT) (GAL) | AGGREGATE (PRIME COAT) (TON) | |
| RT | 74+65.50 | CE | 47.3 | 10.0 | 52.6 | 4.4 | 52.6 | 5.3 | 0.11 | |
| LT | 74+65.50 | MBTO | 34.4 | 5.0 | 19.1 | 1.6 | | 1.9 | 0.04 | |
| RT | 77+54.20 | CE | 54.0 | 10.0 | 60.0 | 5.0 | 60.0 | 6.0 | 0.12 | |
| RT | 80+59.30 | CE | 119.9 | 10.0 | 133.2 | 11.2 | 133.2 | 13.3 | 0.27 | |
| LT | 98+21.10 | MBTO | 35.3 | 5.0 | 19.7 | 1.7 | | 2.0 | 0.04 | |
| TOTAL = | | | | | | 23.9 | 245.8 | 28.5 | 0.6 | |
| USE = | | | | | | 24.0 | 246.0 | 29.0 | 1.0 | |

| 40600982 HMA SURFACE REMOVAL-BUTT JOINT | | | | | |
|---|----|-----------|------------------|-----------------|-----------------|
| STATION | TO | STATION | LENGTH (FOOT) | WIDTH (FOOT) | AREA (SQ YD) |
| 61+00.17 | TO | 61+30.17 | 30.0 | 30.0 | 100.0 |
| 104+77.27 | TO | 105+07.27 | 30.0 | 30.0 | 100.0 |
| TOTAL = | | | | | 200.0 |
| USE = | | | | | 200.0 |

| 40600990 TEMPORARY RAMP | | | |
|-------------------------|-----------------|------------------|-----------------|
| STATION | WIDTH (FOOT) | LENGTH (FOOT) | AREA (SQ YD) |
| 61+00.17 | 30.0 | 5.0 | 16.7 |
| 105+07.27 | 30.0 | 5.0 | 16.7 |
| TOTAL = | | | 33.3 |
| USE = | | | 34.0 |

SCHEDULE OF QUANTITIES

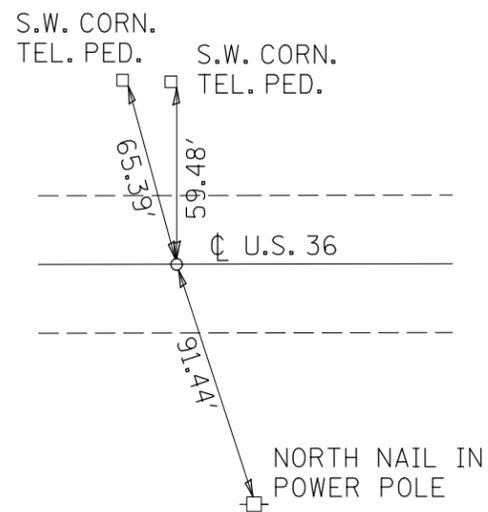
| PAVEMENT MARKING SCHEDULE | | | | | | | | | | | | | | | | | | |
|---------------------------|----------------------------------|----|-----------|----------------|---------|----------|----------|--------------------------------------|----|-----------|----------------|---------|----------|-----------------------------|----|----------------|---------|--------|
| 78001110 | | | | | | | 70300220 | | | | | | | 70300100 | | | | |
| SIDE | PAINT PAVEMENT MARKING - LINE 4" | | | | | | SIDE | TEMPORARY PAVEMENT MARKING - LINE 4" | | | | | | SHORT TERM PAVEMENT MARKING | | | | |
| | | | | | (WHITE) | (YELLOW) | | | | | | (WHITE) | (YELLOW) | | | APPS | LENGTH | |
| | STATION | TO | STATION | (FEET) | (FOOT) | (FOOT) | | STATION | TO | STATION | (FEET) | (FOOT) | (FOOT) | STATION | TO | STATION | APPS | (FOOT) |
| LT | 61+00.17 | TO | 105+07.27 | 4,407.1 | 4,407.1 | 1,101.8 | LT | 61+00.17 | TO | 105+07.27 | 4,407.1 | 4,407.1 | 1,101.8 | 61+00.17 | TO | 105+07.27 | 2.0 | 881.4 |
| RT | 61+00.17 | TO | 105+07.27 | 4,407.1 | 4,407.1 | | RT | 61+00.17 | TO | 105+07.27 | 4,407.1 | 4,407.1 | | 97+88.30 (RT) | TO | 101+59.03 (RT) | | 16.0 |
| | | | | TOTAL = | 8814.2 | 1101.8 | | | | | TOTAL = | 8814.2 | 1101.8 | 99+03.13 (LT) | TO | 102+31.21(LT) | | 16.0 |
| | | | | USE = | 8814.0 | 1102.0 | | | | | USE = | 8814.0 | 1102.0 | | | | TOTAL = | 913.4 |
| | | | | TOTAL LENGTH = | 9916.0 | | | | | | TOTAL LENGTH = | 9916.0 | | | | | USE = | 914.0 |

| PAVEMENT MARKING SCHEDULE (CONT'D) | | | | | | | | | | | | | | |
|---------------------------------------|----|-----------|--------|-----------------|--|----|-----------|----------------|-----------------|--------------------------------------|----|-----------|----------------|-----------------|
| 70301000 | | | | | 78300200 | | | | | 78100100 | | | | |
| WORK ZONE PAVEMENT MARKING REMOVAL | | | | | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | | | | | RAISED REFLECTIVE PAVEMENT MARKER | | | | |
| STATION | TO | STATION | (FOOT) | AREA (SQ FT) | STATION | TO | STATION | RATE (FEET) | TOTAL (EACH) | STATION | TO | STATION | RATE (FEET) | TOTAL (EACH) |
| 61+00.17 | TO | 105+07.27 | 472.7 | 156.0 | 61+00.17 | TO | 105+07.27 | 80.0 | 55.0 | 61+00.17 | TO | 105+07.27 | 80.0 | 55.0 |
| | | | | 156.0 | | | | | 55.0 | | | | | 55.0 |
| | | | | 156.0 | | | | | 55.0 | | | | | 55.0 |

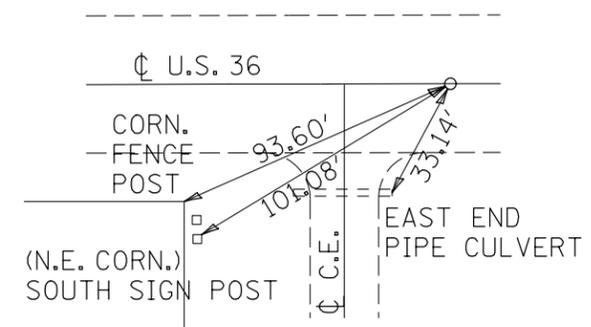
| STATION | DESCRIPTION | XZ193400 SURVEY MARKER TY 2, (SPECIAL) (EACH) | Z0070202 SURVEY MARKER VAULT (EACH) |
|----------------------|-------------------------------|---|---|
| 69+49.69 | P.I. KINK | 1.0 | |
| 77+31.65 5.20' LT | NW COR. SEC. 6-15-9 | | 1.0 |
| 78+00.85 | P.I. KINK | 1.0 | |
| 79+42.86 4.67' LT | SW COR./SE 1/4 SEC 36-16-8 | | 1.0 |
| 90+66.38 1.30' LT | NE COR./NW 1/4 SEC 6-15-9 | | 1.0 |
| 99+99.94 | P.I. KINK | 1.0 | |
| TOTAL = | | 3.0 | 3.0 |

| 48102100 AGGREGATE WEDGE SHOULDER, TYPE B | | | | | |
|---|-----------|----|-----------|------------------|-----------------|
| SIDE | STATION | TO | STATION | LENGTH (FOOT) | SHLDRS (TON) |
| LT | 61+00.17 | TO | 99+03.13 | 3,803.0 | 48.2 |
| LT | 102+31.21 | TO | 105+07.27 | 276.1 | 3.5 |
| RT | 61+00.17 | TO | 97+88.30 | 3,688.1 | 46.7 |
| RT | 101+59.03 | TO | 105+07.27 | 348.2 | 4.4 |
| | | | | TOTAL = | 102.8 |
| | | | | USE = | 103.0 |

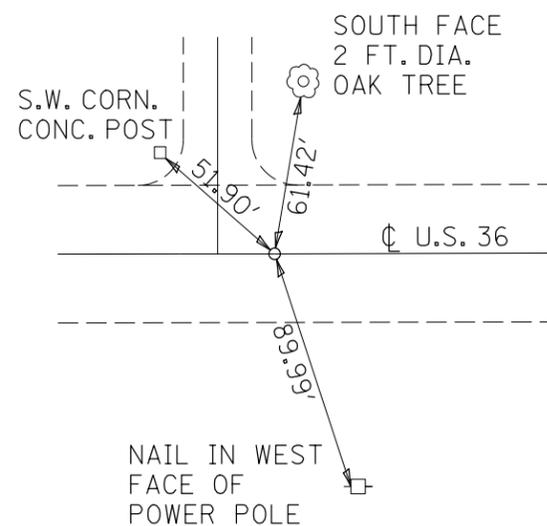
P.I. STA. 69 + 49.69



P.I. STA. 78 + 00.85



P.I. STA. 99 + 99.94



| | | | |
|--|-----------------------------|------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - |
| ci:\pw_work\p\dot\coombessf\d0282854\0570902-sht-ATB.dgn | | DRAWN - | REVISED - |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

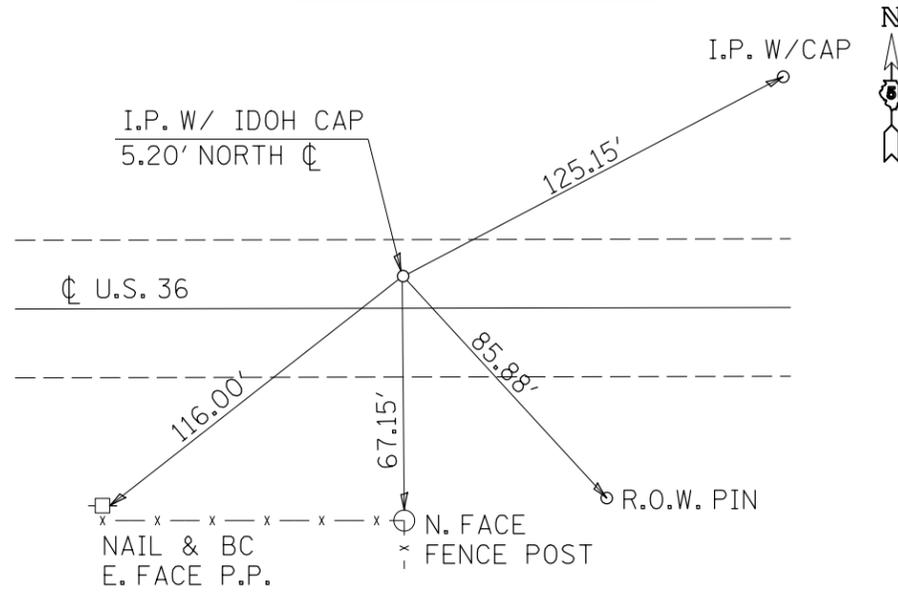
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CENTERLINE TIE POINTS

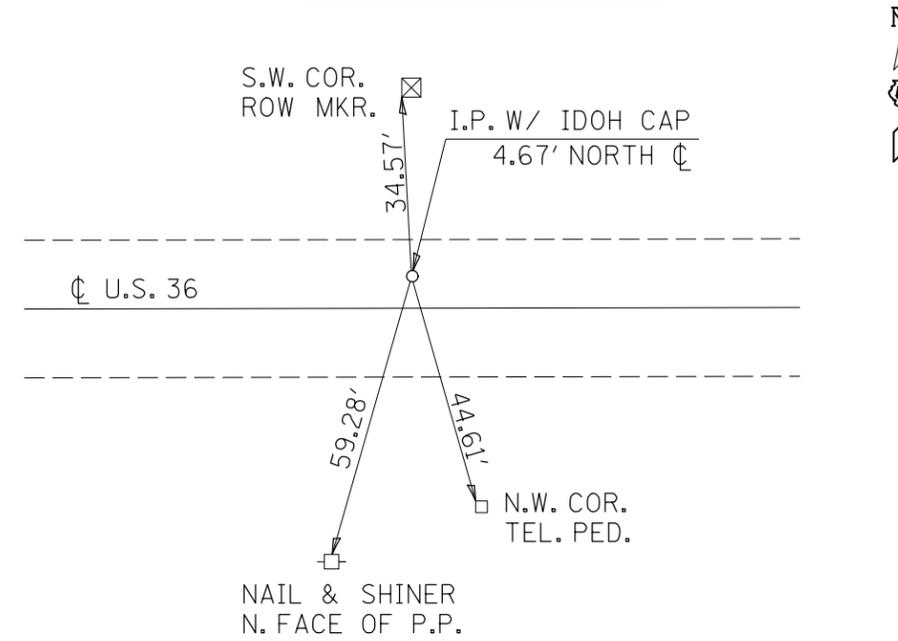
SCALE: SHEET NO. OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 10 |
| CONTRACT NO. 70902 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

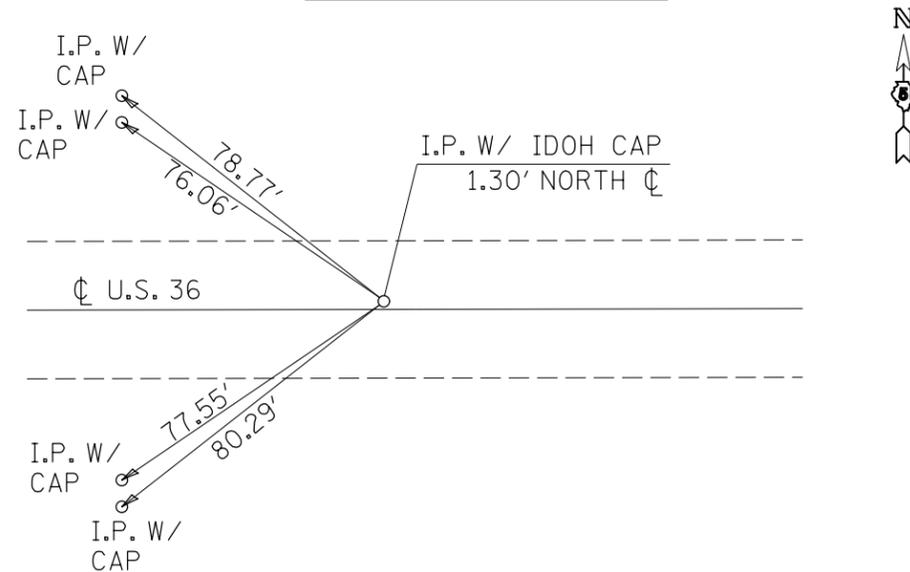
NW COR. SEC. 6-15-9
STA. 77 + 31.65, 5.20' LT.



SW COR./SE 1/4 SEC. 36-16-8
STA. 79 + 42.86, 4.67' LT.



NE COR./NW 1/4 SEC. 6-15-9
STA. 90 + 66.38, 1.30' LT.



| | | | |
|---|-----------------------------|------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - |
| c:\pwork\pwork\coombessf\d0282854\0570902-sht-ATB.dgn | | DRAWN - | REVISED - |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT TIE POINTS

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 11 |
| CONTRACT NO. 70902 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

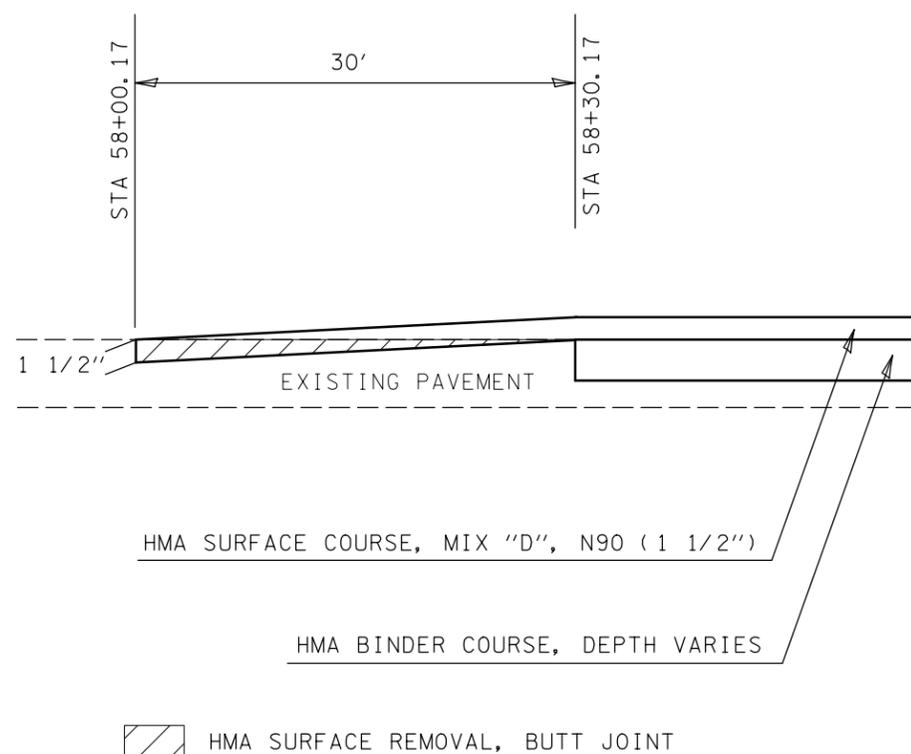
FOR INFORMATION ONLY

| U.S. 36 WHITETOPPING CORES E. OF TUSCOLA | | | | | | | | |
|--|---------|------|-------------|--------------------------|-----------------|--------------------|-------------------|------------------------|
| CORE | STATION | LANE | O/S FROM CL | WHITETOPPING (INCHES) | HMA (INCHES) | PCC (INCHES) | BRICK (INCHES) | BRICK BASE (INCHES) |
| 1 | 66+75 | EBL | 7.0' RT | 5 3/8 | 3 1/2 | - | - | - |
| 2 | 71+11 | EBL | 5.5' RT | 4 1/4 | 7 | 6 1/4 | - | - |
| 3 | 82+86 | EBL | 7.0' RT | 4 1/2 | 7 1/2 | 7 1/2 | - | - |
| 4A | 92+87 | EBL | 7.5' RT | 4 3/8 | 6 | 6 3/4 | - | - |
| 4B* | 92+87 | EBL | 11.0' RT | 4 1/4 | - | - | - | - |
| 5A | 97+56 | EBL | 6.5' RT | 4 1/4 | 7 | 7 | - | - |
| 5B* | 97+56 | EBL | 2.0' RT | 4 7/8 | - | - | - | - |
| 5C* | 97+56 | EBL | 11.0' RT | 4 1/8 | - | - | - | - |
| 6A | 102+81 | EBL | 10.5' RT | 3 3/4 | 3 5/8 | 9 3/4 | - | - |
| 6B* | 102+81 | EBL | 6.5' RT | 3 7/8 | - | - | - | - |
| 6C* | 102+81 | EBL | 1.5' RT | 4 1/8 | - | - | - | - |
| 7A | 98+70 | WBL | 9.0' LT | 5 1/2 | 6 3/4 | - | 4 | 2 1/2 |
| 7B* | 98+70 | WBL | 2.5' LT | 5 3/4 | - | - | - | - |
| 8A | 94+27 | WBL | 6.5' LT | 8 | 6 | 9 | - | - |
| 8B* | 94+27 | WBL | 2.0' LT | 8 1/8 | - | - | - | - |
| 9 | 90.43 | WBL | 6.5' LT | 4 3/4 | 6 1/2 | Broken into Pieces | - | - |
| 10 | 86+46 | WBL | 9.0' LT | 4 3/4 | 7 | - | 4 | 3 1/2 |
| 11A | 75+24 | WBL | 7.0' LT | 4 7/8 | 5 1/2 | 9 1/2 | - | - |
| 11B* | 75+24 | WBL | 2.0' LT | 5 1/8 | - | - | - | - |
| 11C* | 75+24 | WBL | 11.0' LT | 4 3/4 | - | - | - | - |
| 12A | 69+50 | WBL | 7.0' LT | 4 5/8 | 4 | - | - | - |
| 12B* | 69+50 | WBL | 1.0' LT | 4 7/8 | - | - | - | - |
| 12C* | 69+50 | WBL | 11.0' LT | 4 3/8 | - | - | - | - |

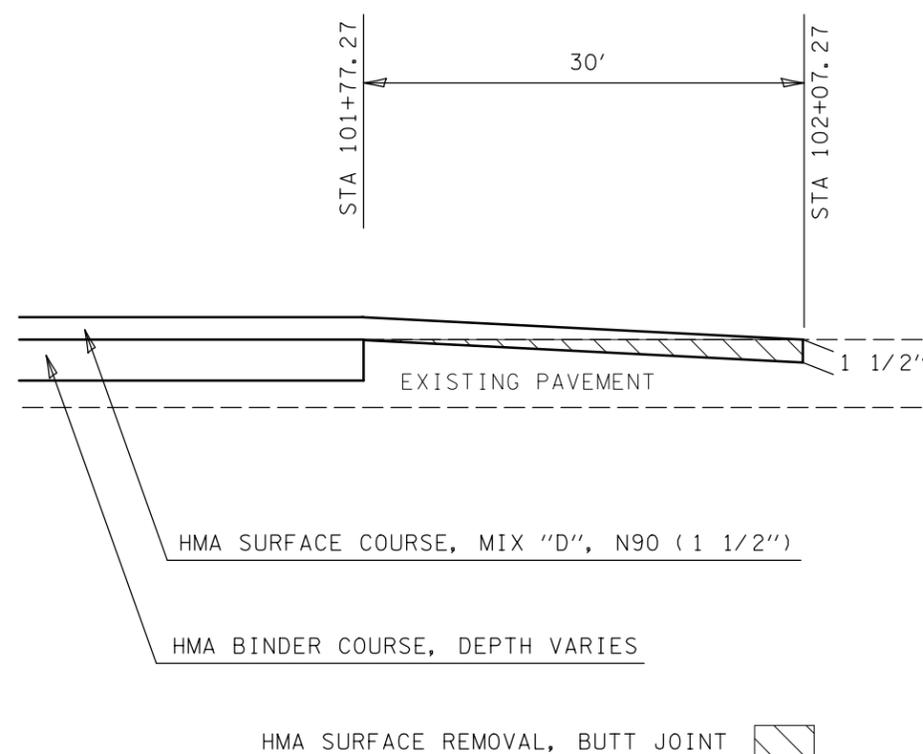
* A CORE AT THIS LOCATION WAS TAKEN TO DETERMINE WHITETOPPING THICKNESS ONLY. THE UNDERLYING PAVEMENTS WERE NOT CORED.

BUTT JOINT DETAILS

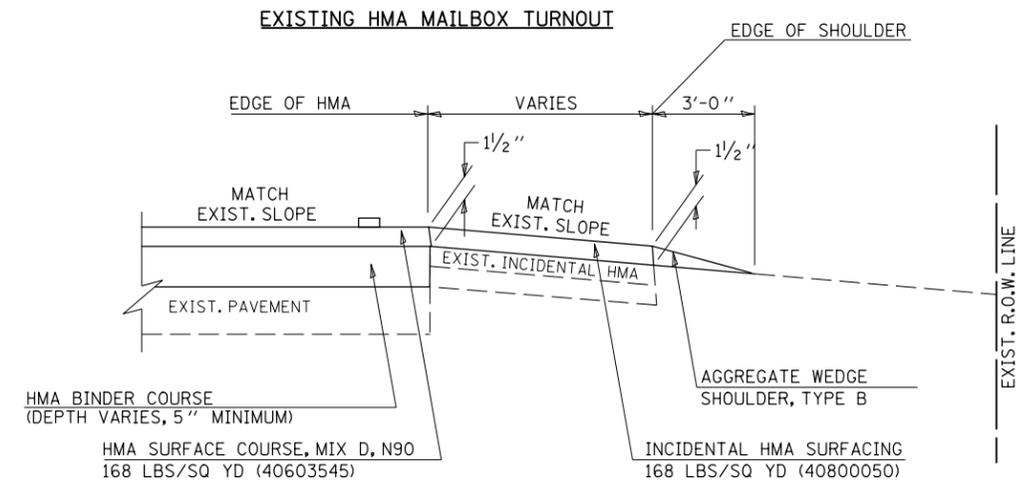
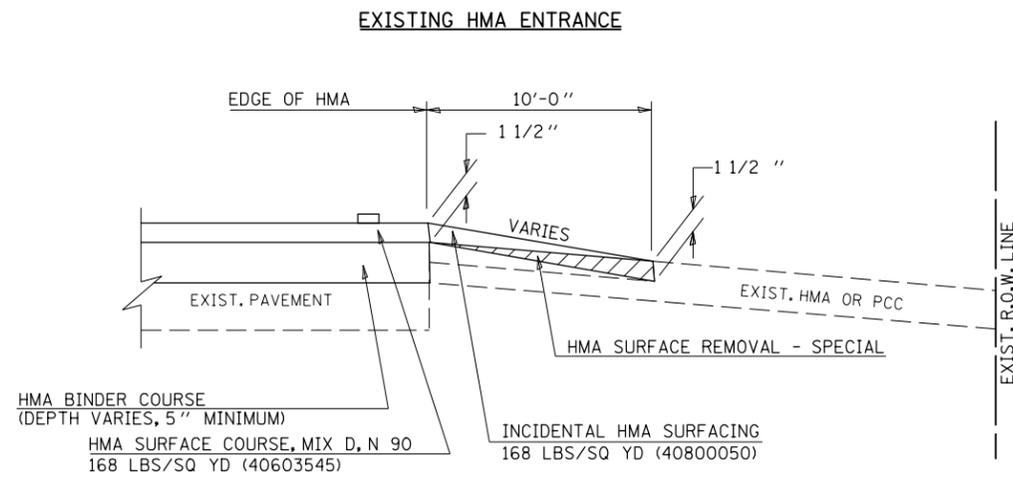
BUTT JOINT AT BEGINNING OF PROJECT



BUTT JOINT AT END OF PROJECT



| | | | | | | | | | | | | |
|--|-----------------------|------------|-----------|---|---------------------------|---------------------|--------------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | BUTT JOINT DETAILS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ci:\pw\work\p\dot\coombessf\d0282854\0570902-sht-details.dgn | | DRAWN - | REVISED - | | 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 13 | | | |
| PLOT SCALE = 48.0000' / in. | | CHECKED - | REVISED - | | CONTRACT NO. 70902 | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT DATE = 1/13/2012 | | DATE - | REVISED - | | SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | | | | | |



GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 AND 40-11 ALONG WITH DISTRICT CONSTRUCTION MEMORANDUM 03/14 DISCUSS THIS PROCEDURE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

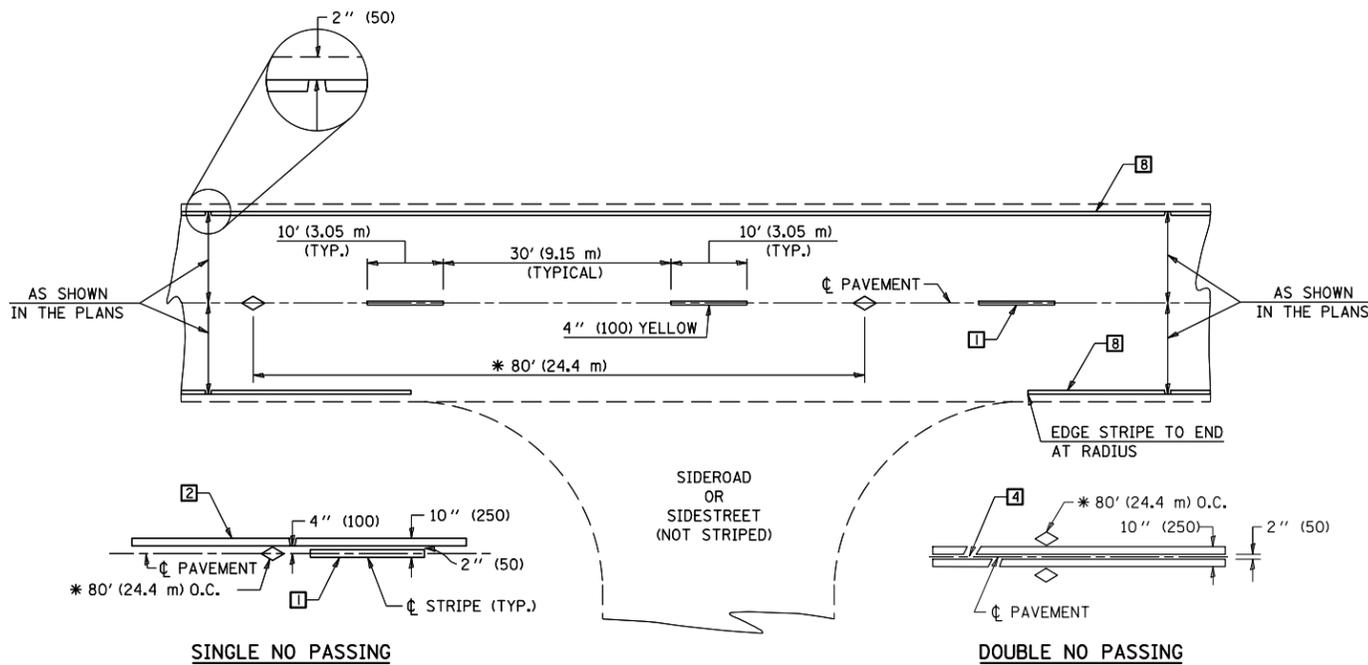
| RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09) | | | | | | | | | | | | | | | | | |
|---|---|--------|----------|--------------------------|----------|---------------|---|---------|---|-----------------|------|---------------|------------|------|------|------|------|
| DESIGN ELEMENT | NEW CONSTRUCTION & 3R with RECONSTRUCTION | | | | | | 3R w/out RECONSTRUCTION, 3P, SMART & CM | | | | | | | | | | |
| | NONCOMMERCIAL | | | FIELD W/ FARM IMPLEMENTS | | | COMMERCIAL | | | NONCOMMERCIAL | | | COMMERCIAL | | | | |
| | PRIVATE & FIELD | | | FIELD W/ FARM IMPLEMENTS | | | COMMERCIAL | | | PRIVATE & FIELD | | | COMMERCIAL | | | | |
| | min. | des. | max. | min. | max. | min. | des. | max. | min. | des. | max. | min. | des. | max. | min. | des. | max. |
| SURFACE WIDTH (FT) | 12 | 16 | 24 | 24 | 30 | 1 LANE, 1 WAY | | | 1 LANE, 1 WAY | | | 1 LANE, 1 WAY | | | | | |
| | | | | | | 14 | 16 | 24 | | | | | | | | | |
| | | | | | | 2 LANE, 2 WAY | | | 2 LANE, 2 WAY | | | 2 LANE, 2 WAY | | | | | |
| RADIUS (FT) | 15 | 25 | 40 | 30 | | 20 | 30 | 50 | resurface existing configuration; existing hma or pcc entrances shall have "butt joints" constructed; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them | | | | | | | | |
| SHOULDER WIDTH (FT) | 2 | 2 | | 2 | | 1 | 3 | | | | | | | | | | |
| SHOULDER SLOPE (%) | 2 | 4 | 6 | 4 | | 2 | 4 | 6 | | | | | | | | | |
| ENTRANCE GRADE (%) | 0 | 2 to 5 | 10 or 12 | 2 to 5 | 10 or 12 | 0 | 2 to 5 | 8 or 10 | | | | | | | | | |
| SIDE SLOPE (FT) | 1:10 | 1:6 | 1:4 | 1:6 | 1:4 | 1:10 | 1:6 | 1:4 | | | | | | | | | |
| SURFACE TYPE | | | | | | | | | | | | | | | | | |
| INCIDENTAL HMA SURFACING (INCH) | | 2 | | 2 | | 3 or 4 | | | taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" for "butt joints" and to minimize aggregate shoulder | | | | | | | | |
| AGGREGATE SURFACE COURSE, TYPE B (INCH) | | 6 | | 6 | | 8 | | | if applicable use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02 | | | | | | | | |
| PCC DRIVEWAY PAVEMENT (INCH) | | 6 | | | | | | 6 or 8 | | | | | | | | | |

| | | | |
|--|-----------------------------|------------|-----------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - |
| ct:\pw\work\pwidot\coombessf\d0282854\0570902-sht-detail.dgn | | DRAWN - | REVISED - |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|--------------|--------|--------------|
| PRIVATE AND COMMERCIAL ENTRANCES AND MAILBOX TURNOUTS | | | |
| SCALE: | SHEET NO. OF | SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------------------|---------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 14 |
| CONTRACT NO. 70902 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

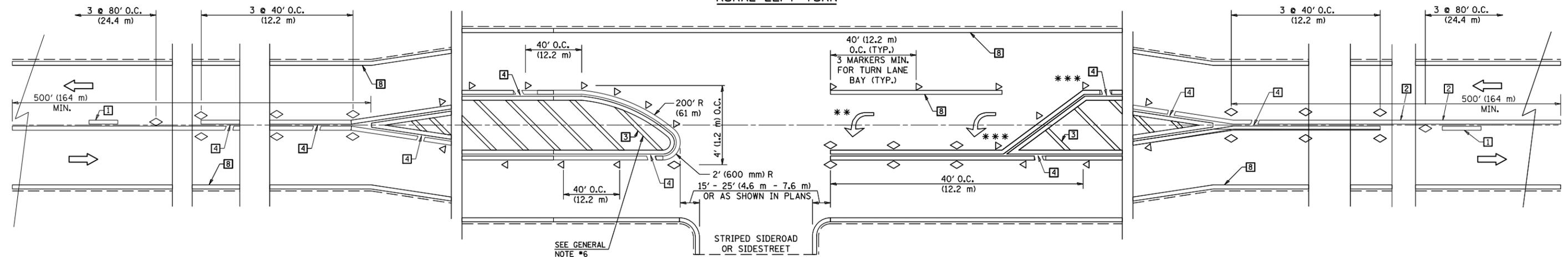
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 RESERVED
 - 6 RESERVED
 - 7 4" (100) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) LANE LINE EXTENSIONS (WHITE)
 - 14 4" (100) PARKING WHITE
-

TYPICAL PAVEMENT MARKERS LEGEND

- ◇ TWO-WAY AMBER MARKER
- ▷ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN

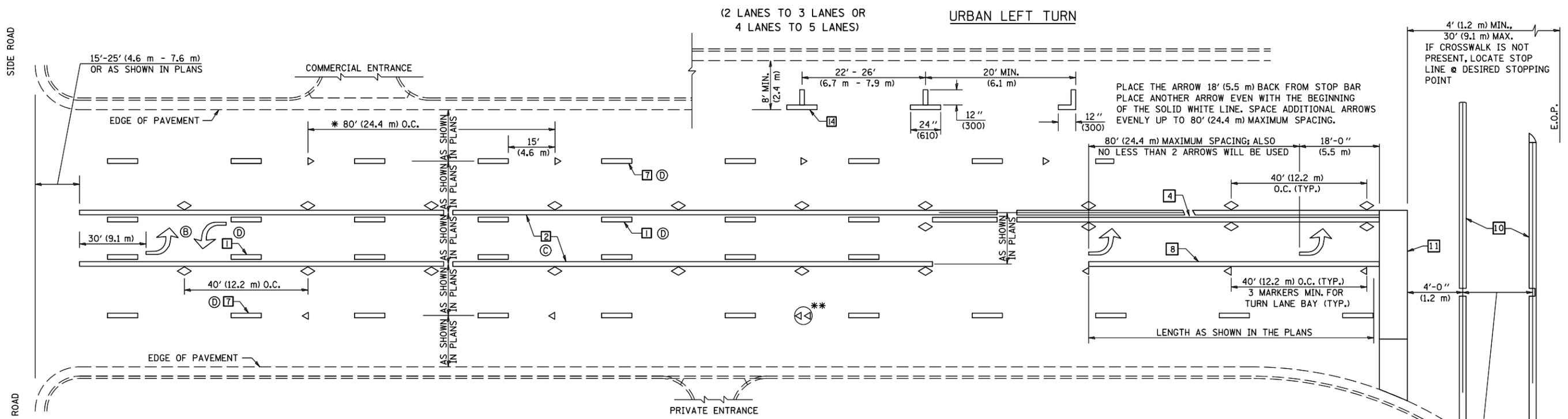


*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

| | | | | | | | | | |
|---|-----------------------|------------|-------------------------|---|--|---------------------|---------|---|---------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - 11/06 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS) | | | DISTRICT 5 DETAIL NO. 7800AAA | |
| ci:\pw\work\p\dot\coombessf\d0282854\0570902-sht-detail.dgn | 70902-sht-detail.dgn | DRAWN - | REVISED - 09/2009 - KJT | | | | | F.A.P. RTE. | SECTION |
| PLOT SCALE = 48.0000' / in. | | CHECKED - | REVISED - | | 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 15 |
| PLOT DATE = 1/13/2012 | | DATE - | REVISED - | | CONTRACT NO. 70902 | | | | |
| | | | | SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | |

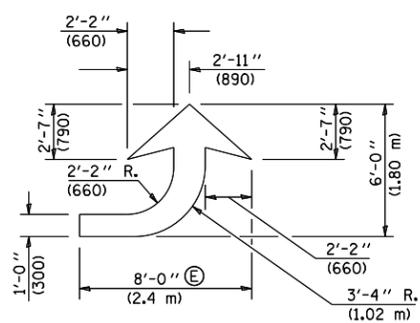


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

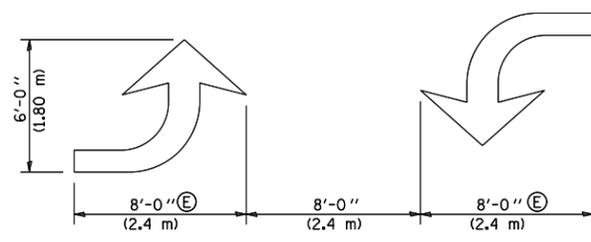
GENERAL NOTES:

- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



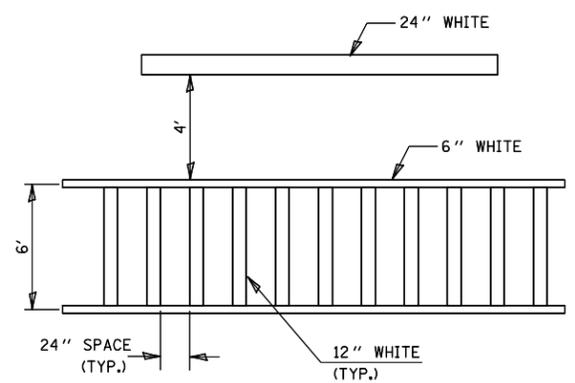
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

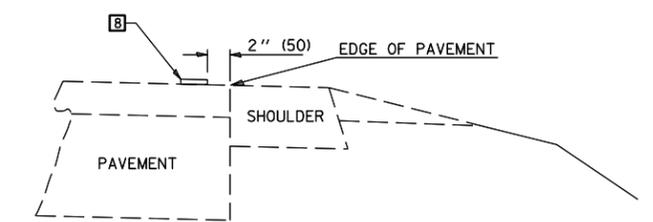


TYPICAL DOUBLE TURN ARROWS (WHITE)

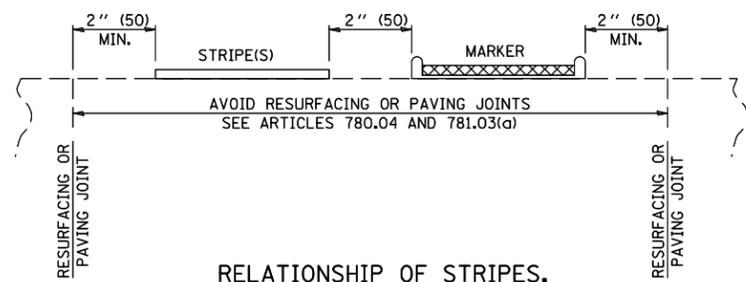
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

| | | | |
|--|-----------------------------|------------|-------------------------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - 11/06 |
| ci:\pw_work\p\idot\coombessf\d0282854\0570902-sht-detail.dgn | 70902-sht-detail.dgn | DRAWN - | REVISED - 09/2009 - KJT |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

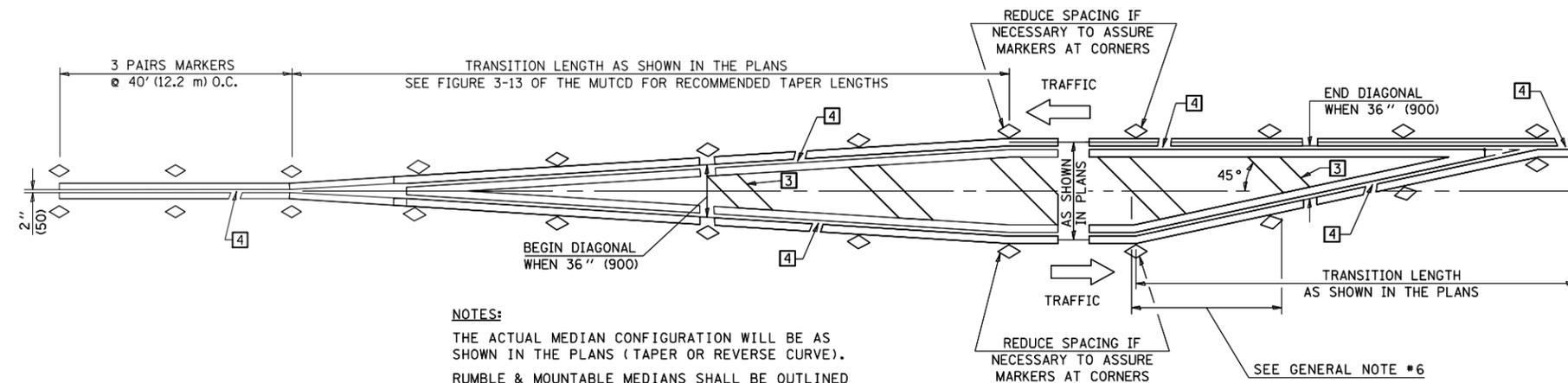
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

| | | | | |
|---------------------|---------------------------|---------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 323 | (144R)RS-2 & 145RS-3 | DOUGLAS | 21 | 16 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | |

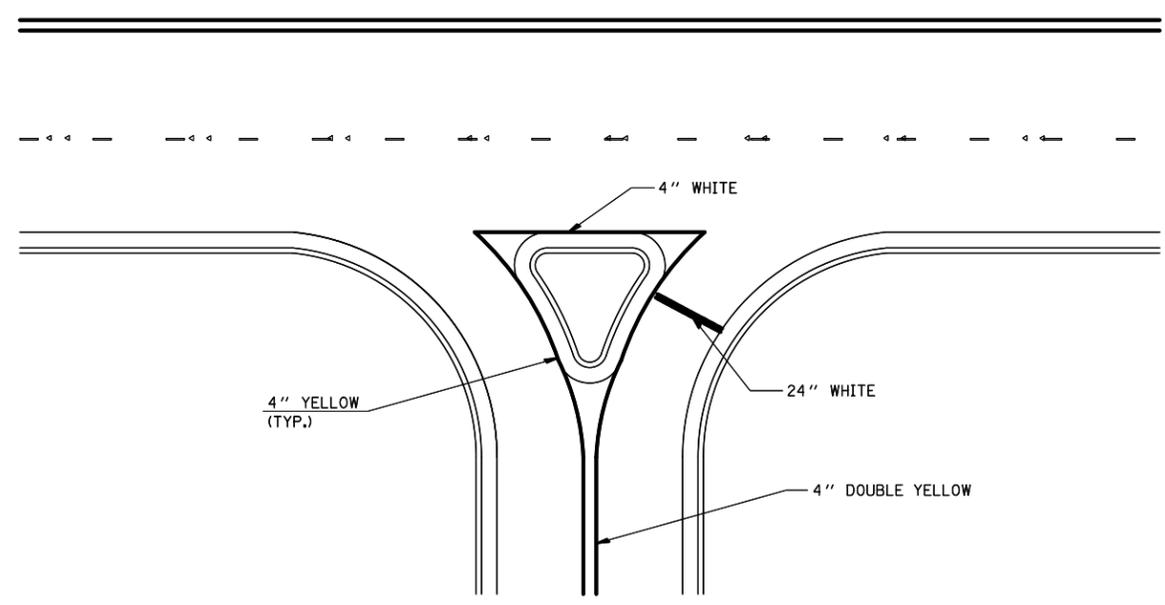


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

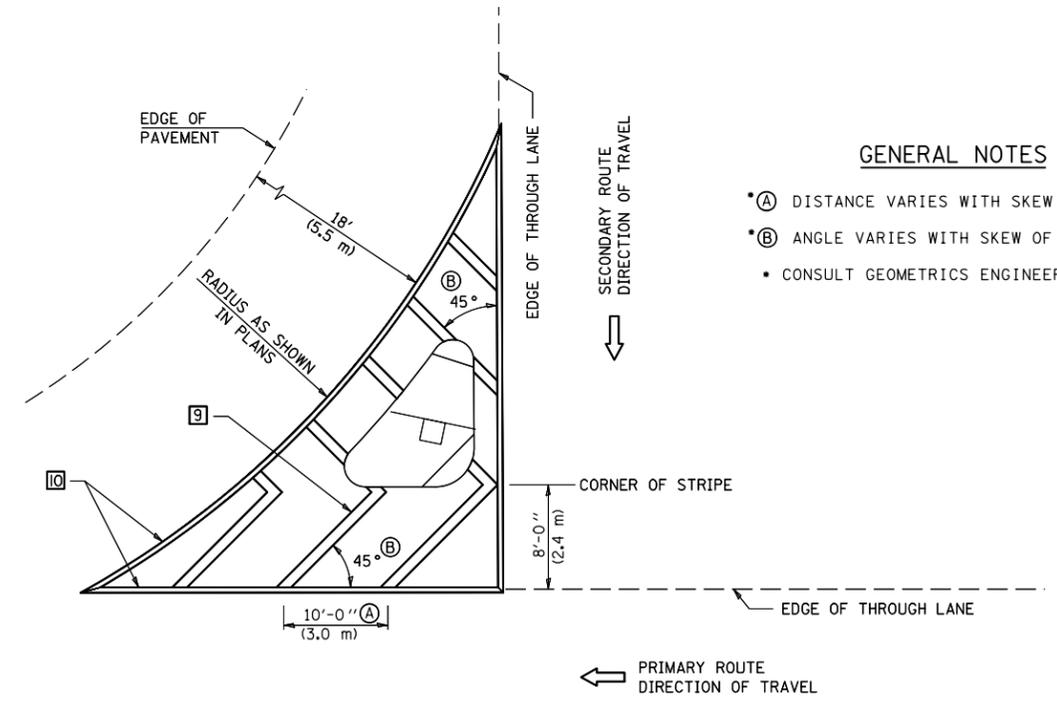
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



ISLAND

GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

| | | | |
|--|-----------------------------|------------|-------------------------|
| FILE NAME = | USER NAME = coombessf | DESIGNED - | REVISED - 11/06 |
| ei:\pw_work\p\idot\coombessf\d0282854\0570902-sht-detail.dgn | | DRAWN - | REVISED - 09/2009 - KJT |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS
 (RURAL & URBAN APPLICATIONS)**

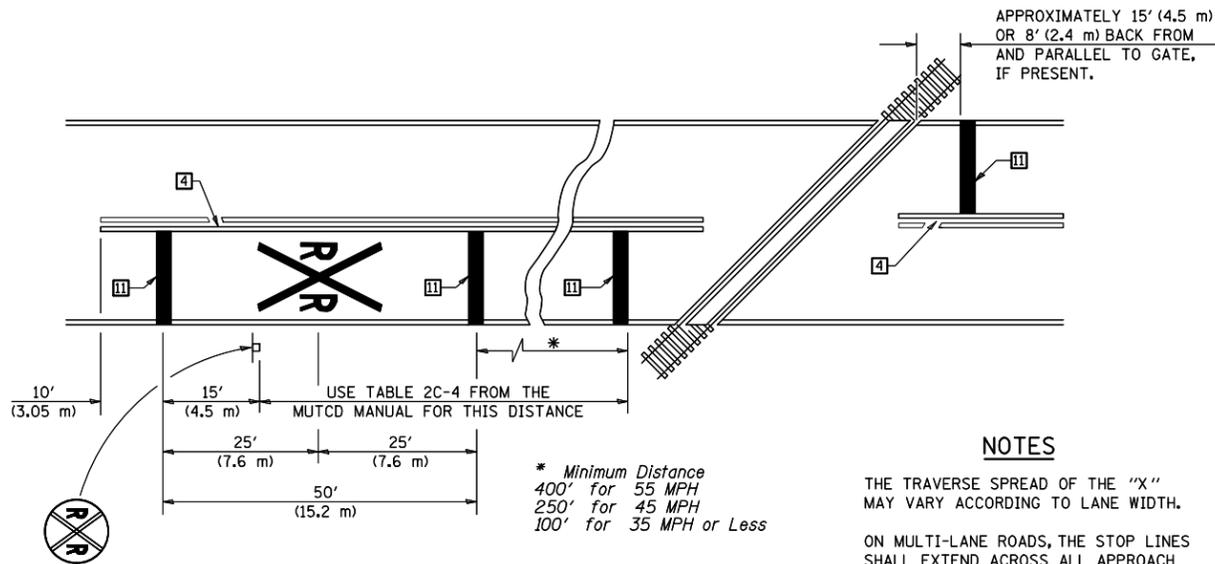
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------------|---------------------------|--------------|-----------|
| 323 | (144R)RS-2 & 145RS-3 | DOUGLAS | 21 | 17 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



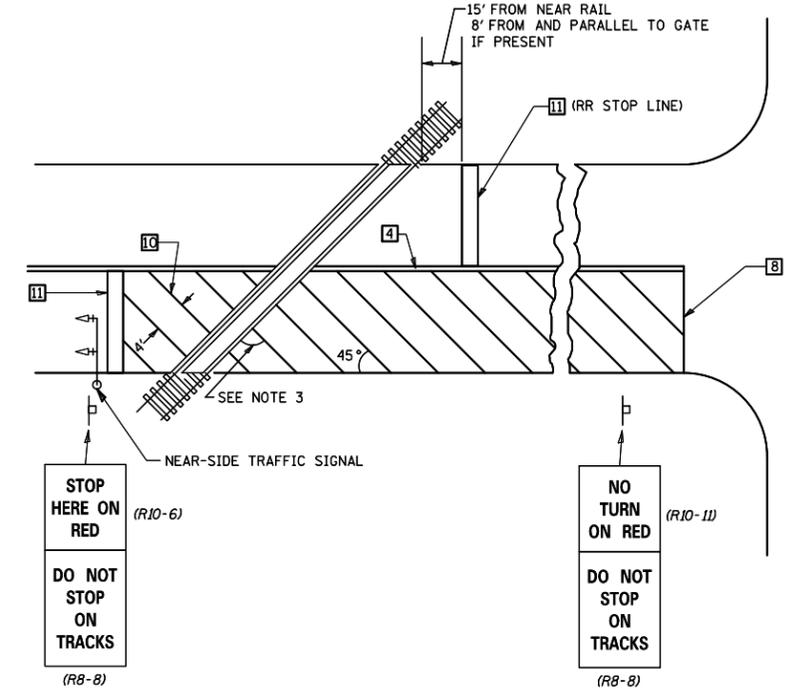
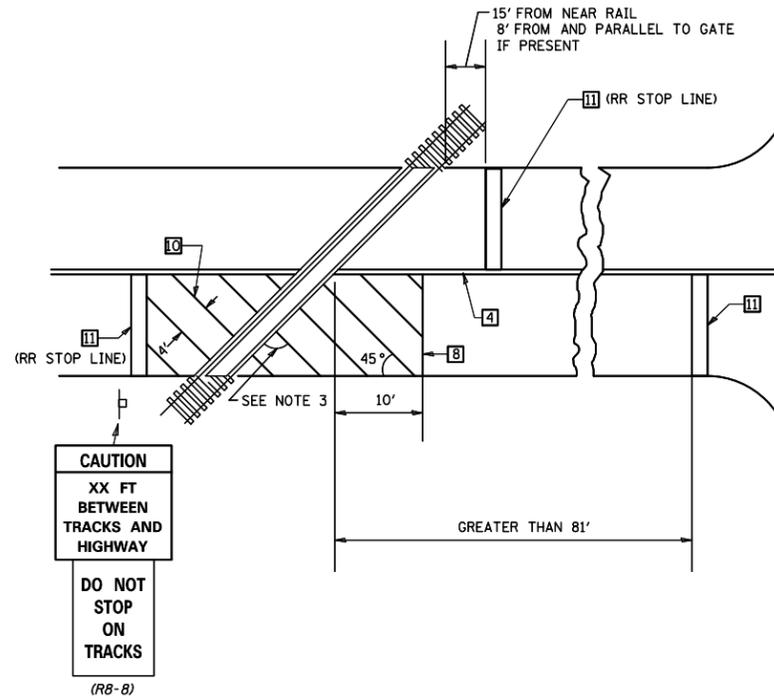
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

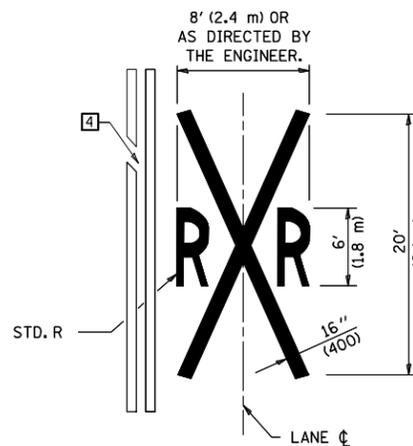
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

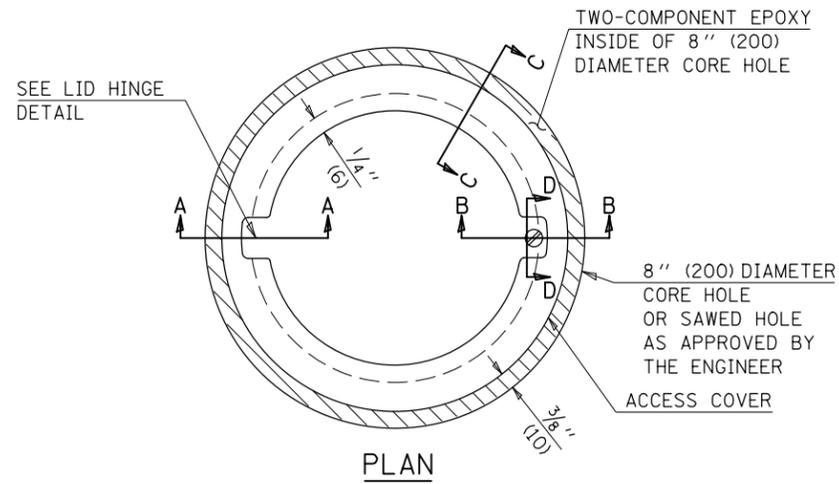
PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA

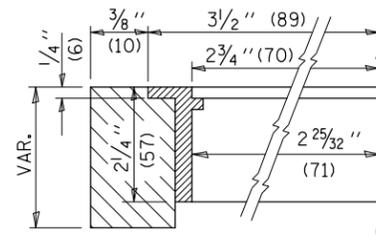
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------------|---------------------------|--------------|-----------|
| 323 | (144R)RS-2 & 145RS-3 | DOUGLAS | 21 | 18 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



LEGEND

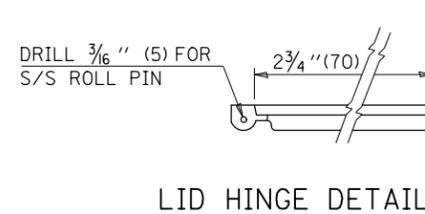
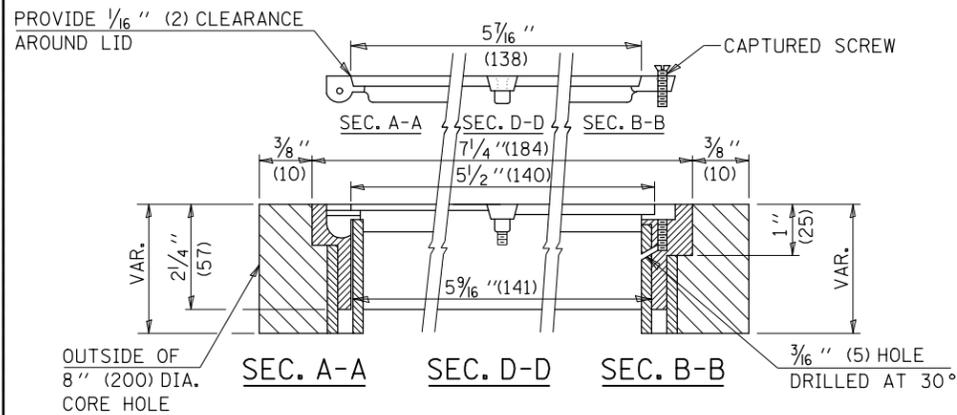
- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SECTION C-C

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).



LID HINGE DETAIL

BILL OF MATERIAL

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5/8" X 48" (#15 X 1.2 m) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

GENERAL NOTES

1. ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
2. BACKFILL WITH FINE AGGREGATE - FA-01/02.
3. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
6. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
7. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. X0301232

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| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

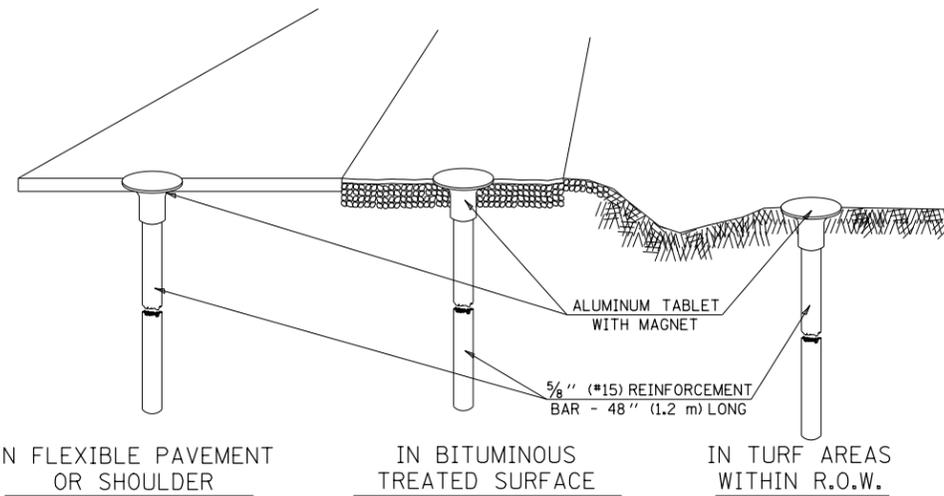
SURVEY MARKER VAULT

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------------|---------------------------|--------------|-----------|
| 323 | (144R/RS-2 & 145RS-3 | DOUGLAS | 21 | 19 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

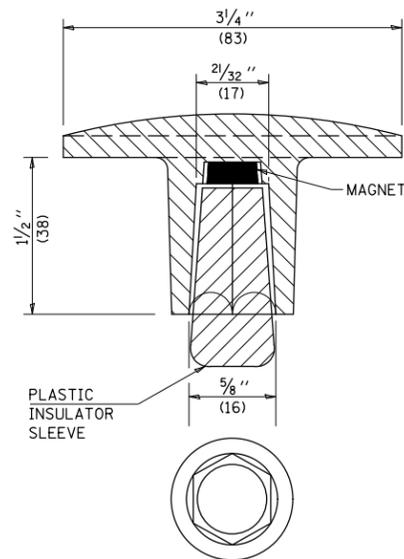
TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



IN FLEXIBLE PAVEMENT OR SHOULDER

IN BITUMINOUS TREATED SURFACE

IN TURF AREAS WITHIN R.O.W.



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED $\pm 1/4"$ (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. $3/4"$ (83 mm) CONVEX SURVEY CAP FOR $5/8"$ (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF $1/32"$ (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM $1/2"$ (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

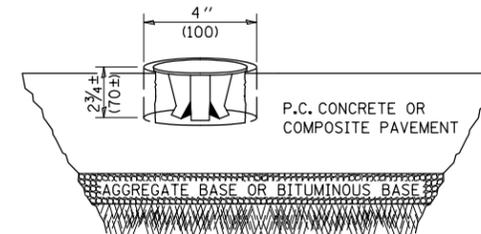
SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE $5/8"$ (*15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR $5/8"$ (*15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

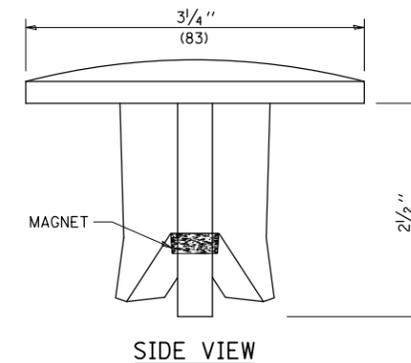
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



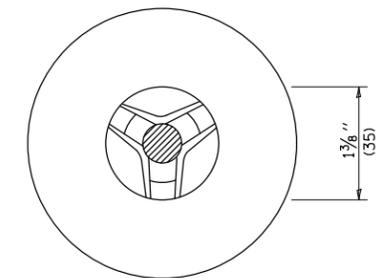
SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE $3/4"$ (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF $1/32"$ (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A $2 1/2"$ (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS.



SIDE VIEW



BOTTOM VIEW

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED $\pm 1/4"$ (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

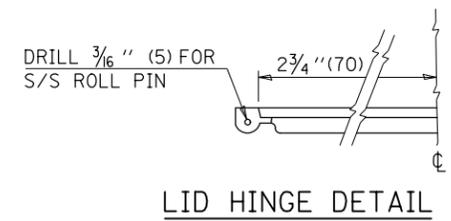
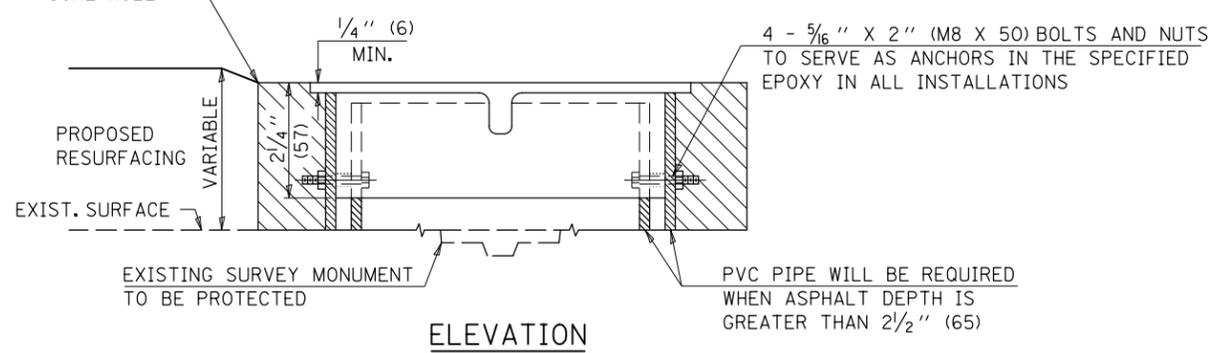
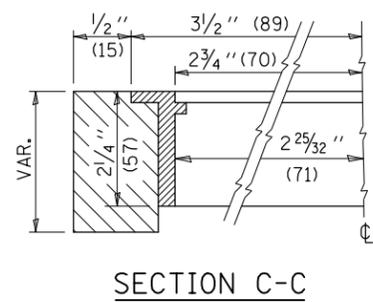
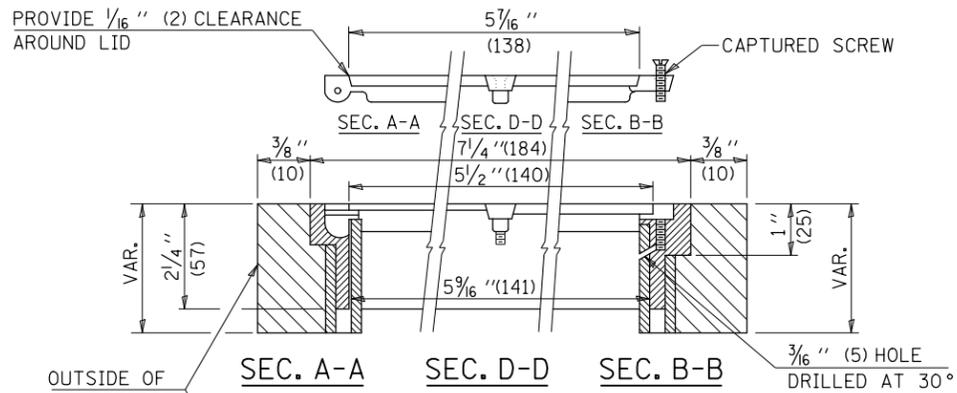
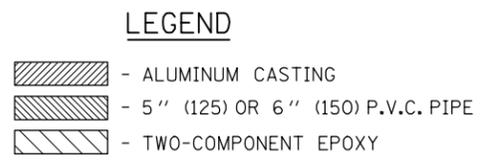
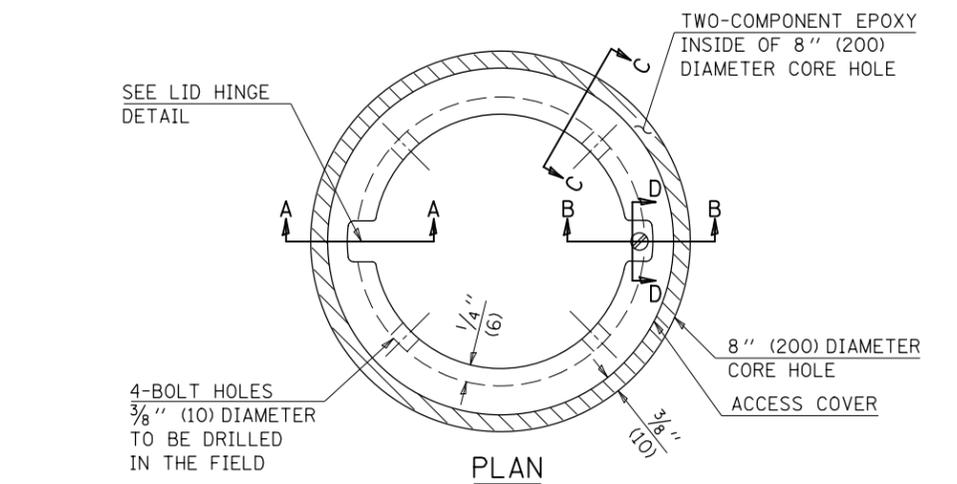
SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

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

DISTRICT 5 DETAIL NO. XZ193AAA

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------------------|---------------------------|--------------|-----------|
| 323 | (144)RS-2 & 145RS-3 | DOUGLAS | 21 | 20 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

| BILL OF MATERIAL | |
|--|--|
| ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED). | |

GENERAL NOTES

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
5. ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
6. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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| | PLOT DATE = 1/13/2012 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT COVER ASSEMBLY

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

| DISTRICT 5 DETAIL NO. Z0070100 | | | | |
|--------------------------------|-----------------------|---------------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 323 | (144R/RS-2 & 145RS-3) | DOUGLAS | 21 | 21 |
| CONTRACT NO. 70902 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |