STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROPOSED FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5 **HIGHWAY PLANS** CURRENT ADT: FAS 514 800 (2007) F.A.S. ROUTE 514 (ALLEN ST.) SECTION 81–15D,CR **CHAMPAIGN COUNTY** C-95-150-06 **BOX CULVERT REPLACEMENT** EXISTING S.N. 010-8107 PROPOSED S.N. 010-8130 STATION 356+31.43 (DITCH SOUTH OF ALLERTON) STATION 356+28.00, PCBC 12'x2'x33' 18 R S 16 300N SECTION 81-15D,CR BEGIN STATION 356+17.00 21 ALLERTØN 1.9 20 19 200N 51.4) ROADLANDS FAP 836 (525) NYER 28 30 SECTION 81-15D,CR END STATION 356+39.00 100N 33 32 31 31 000N TO KANSAS. CAP PREPARED USING STANDARD COUNTY ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT COUNTY 2800E 2400E 27006 CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. R 11 E R. 14 W J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1--800--892--0123 OR 811 PROJECT ENGINEER: KEVIN TRAPP (217-465-4181) **PROJECT DESIGNER: DANA HENNESS** SQUAD LEADER: MICHAEL LEROY

CONTRACT NO. 70619

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GROSS & NET LENGTH OF SECTION & PROJECT = 22.00 FEET = 0.004 MILES

| F.A.S. RTE. | SECTI | ON | COUNTY | TOTAL | SHEET NO. |
|----------------|-----------|-----------|-----------|-------|--------------|
| 514 | 81-15D | ,CR | CHAMPAIGN | 30 | 1 |
| FED. ROAD | DIST. NO. | ILL INOIS | CONTRAC | NO. | 70619 |



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SURMITTE will to love Due DEPUTY DIRF Clinis M. Reed SI OF HIGHWAYS CHIEF ENGINEE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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| | ZA-20 | CHAMPAIGN AVENU | JE UKUSS SEUTIONS | | | 1 | | |
| | 20.20 | | | | | | | |
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| | 20-20 | ALLENO | | | | | | |
| | 23-28 | F.A.S. 514 (ALLENS | TREET) CROSS SECTIONS | | | | | |
| | | | | | | | | |
| | | | • • | · | | | | |
| | 19-22 | PAVEMENT MARKIN | NG AND MARKERS (RURAL & U | RBAN APPLICATIONS) | | · · · · · · · · · · · · · · · · · · · | | |
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| | | | - | | | | | |
| | | (ROAD & SIDEROAD | D/STREET CLOSURES) | | | | | |
| | 10 | INAFFIC CONTROL | AND FROIED HONDEVICES | | | | | |
| | 18 | TRAFFIC CONTROL | AND PROTECTION DEVICES | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | 17A | FIELD TILE SYSTEM | IS (TREATMENT OF EXISTING) | | | | | |
| | | | | | | | | |
| | | | | | | 1 | | |
| | 16-17 | FIELD ENTRANCES | (NON-COMMERCIAL RURAL) | | | | | |
| | 16 17 | | | | | | | |
| | | | | | | | | |
| | 10 | NOND OLOGONE SI | | | | 1 | | |
| | 15 | ROAD CLOSURE SIG | GNING DETAIL | | | | | |
| | | | | | | 1 | | |
| | | | | | | | | |
| | 14 | RIGHT-OF-WAY PLA | AT | | | | 780001-02 | TYPICAL PAVEMENT |
| | | - | _ | | | · · | 700001 00 | |
| | | | | | | | | |
| | 15 | FURUUS GRANULA | | | | | 101001-01 | |
| | 13 | POROUS GRANI II A | R EMBANKMENT DETAIL | | | | 701901-01 | TRAFFIC CONTROL D |
| | | | | | | · · · | | |
| | | | - | - | | | | |
| | 12 | DETAIL OF BOX CUI | LVERT END SECTION (PRECAS | ST OPTION) | | | 701311-03 | LANE CLOSURE, 2L, 2 |
| | 40 | DETAIL OF BOV OF | | | | | 701214 02 | |
| | | | | | | 1 | | |
| | - • | | | | | | | |
| | 11 | GENERAL PLAN ANI | D ELEVATION (S.N. 010-8130) | | | | 701301-03 | LANE CLOSURE, 2L, 2 |
| | | | | | | | | |
| | | | | | | 1 | | |
| | 10 | FLAN & PRUFILE SP | | | | 1 | 101011-02 | |
| | 10 | PLAN & PROFILE SH | IFFT | | | 1 | 701011-02 | OFF-RD MOVING OPF |
| | | | | | | 1 | | |
| | | | | | | | | |
| | 8-9 | SCHEDULES OF OU | ANTITIES | | | 1 | 542401-01 | METAL END SECTION |
| | | | | | | 1 | | |
| | | | | | | | | |
| | 7 | CENTERLINE TIE PC | DINTS | | | | 515001-03 | NAME PLATE FOR BR |
| | | | | | | | | |
| | | | | | | | | |
| | 6 | EXISTING & PROPO | SED TYPICAL SECTIONS | | | | 442201-03 | CLASS C AND D PATC |
| | • | | | | | | 440004 00 | |
| | | | | | | | | |
| | 4-5 | SUMMARY OF QUAR | NITTES | | | | 280001-05 | TEMPORARY EROSIC |
| | 4.5 | | NTITICS | | | | 220001 05 | TEMPOPARY EROSIC |
| | | | | | | | | |
| | 3 | GENERAL NOTES | | | | | 001006 | DECIMAL OF AN INCH |
| | | | | | | | | |
| | | | | | | | | |
| | 2 | INDEX OF SHEETS / | LIST OF HIGHWAY STANDARD | DS | | | 001001-02 | AREAS OF REINFORC |
| | | | | | | | | |
| | 1 | COVERSHEET | | | | | 000001-05 | STANDARD STMBULS |
| | 4 | | | | | | 000001_05 | STANDARD SVMROU |

HIGHWAY STANDARDS

S, ABBREVIATIONS AND PATTERNS

CEMENT BARS

AND OF A FOOT

ON CONTROL SYSTEMS

CHES

RIDGES

FOR PIPE CULVERTS

ERATIONS, 2L, 2W, DAY ONLY

2W, SHORT TIME OPERATIONS

2W, MOVING OPERATIONS - DAY ONLY

DEVICES

MARKINGS

| | | F.A.S RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
|---------------|---------|---------------|---------------------------------|-----------|-----------------|--------------|--|
| WAY STANDARDS | | 514 | 81~15D,CR | CHAMPAIGN | 30 | 2 | |
| | | | | CONTRACT | T NO. 7 | 70619 | |
| STA. | TO STA. | FED. | OAD DIST. NO. ILLINOIS FED. AIL | D 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.-105.09A (SPECIAL)

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON AN ASSUMED VERTICAL DATUM. THIS DATUM WAS ESTABLISHED AT THE NORTHWEST CORNER OF THE SOUTH HEADWALL OF EXISTING S.N. 010-8107, WITH AN ASSUMED ELEVATION OF 100.00'.

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N.-202 (SPECIAL)

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR DITCH CLEANING AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-250C

SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| | LOCATION | FAS 514 | FAS 514 |
|--------|-----------------|------------------|------------------|
| М | IXTURE USE | CLASS D PATCH | CLASS D PATCH |
| | | (BOTTOM 8") | (TOP 2'') |
| | AC/PG | PG 64-22 | PG 64-22 |
| F | RAP % (MAX) | 25 | 15 |
| DES | IGN AIR VOIDS | 4.0% @ Ndes = 50 | 4.0% @ Ndes = 50 |
| MIX CC | OMP (GRADATION) | IL 19.0 | IL 9.5 |
| FRICT | IONAGGREGATE | N/A | MIX C |
| | | | |

G.N.-540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-542

BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-542B

ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTIONS WOULD BE USED.

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 SETTING THESE MARKERS.

G.N.-1004.01

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

NO COMMITMENTS ON THIS PROJECT.

| FILE NAME = | USER NAME = hennessdm | DESIGNED - D. HENNESS | REVISED - | | | | | |
|--|------------------------------|-----------------------|-----------|------------------------------|--------|-----------|------|--------|
| c:\pw_work\PWIDOT\HENNESSDM\dms86853\7 | 1619PLANS.DGN | DRAWN ~ CADD | REVISED - | STATE OF ILLINOIS | | | GENE | RAL NO |
| | PLOT SCALE = 40.0000 ' / IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | |
| | PLOT DATE = 3/1/2010 | DATE - | REVISED - | | SCALE: | SHEET NO. | OF | SHEETS |

| | F.A.S RTE. | F.A.S. SECTION | | | | | Τ | COUNTY | ·] | TOTAL SHEETS | SHEET NO. | |
|--------------|---------------|----------------|-----------|-----|---|---------|---------|--------|---------|-----------------|--------------|-------|
| ES | | | 81-15D,CR | | | | CHAMPAI | GN | 30 | 3 | | |
| | | | | | | | | Т | CONTR | ACT | NO. 1 | 70619 |
| STA. TO STA. | FED. | ROAD | DIST. | NO. | 1 | LLINOIS | FED. | AID | PROJECT | | | |
| | | | | | _ | | | | | | | |

SUMMARY OF QUANTITIES

| | LOCATION OF WORK: | | FAS 514 (ALLEN STREET) CHAMPAIGN COUNTY S.N. 010-8130 STA. 356+17.00 TO STA. 356+39.00 RURAL 2-LANE 100% STATE |
|------------|-----------------------------------|--------|---|
| | CONSTRUCTION TYPE CODE: | | Y007 |
| CODE NO, | PAYITEM | UNIT | TOTAL QUANTITY |
| 20700220 | POROUS GRANULAR EMBANKMENT | CUYD | 19.0 |
| 21301052 | EXPLORATION TRENCH 52" DEPTH | FOOT | 100.0 |
| * 25000210 | SEEDING, CLASS 2A | ACRE | 0.2 |
| * 25000350 | SEEDING, CLASS 7 | ACRE | 0.2 |
| * 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 18.0 |
| * 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 18.0 |
| * 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 18.0 |
| * 25100115 | MULCH, METHOD 2 | ACRE | 0.2 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 20.0 |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 69.0 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 324.0 |
| 28000500 | INLET & PIPE PROTECTION | EACH | 1.0 |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 16.0 |
| 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GALLON | 6.0 |
| 44201771 | CLASS D PATCHES, TYPE IV, 10 INCH | SQ YD | 52.0 |
| 48101498 | AGGREGATE SHOULDERS, TYPE B 4" | SQ YD | 16.0 |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1.0 |
| 50104400 | CONCRETE HEADWALL REMOVAL | EACH | 2.0 |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 17.0 |
| 51500100 | NAME PLATES | EACH | 1.0 |

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| I | FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - | | | | | |
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| | | PLOT DATE = 3/1/2010 | DATE - | REVISED ~ | | SCALE: | SHEET NO. | OF | SHEETS |

| ANTITIES STA. TO STA | • | F.A.S. RTE. 514 | SECTION 81-15D,CR ILLINOIS FED | COUNTY S CHAMPAIGN CONTRACT AID PROJECT | IDTAL SHEET HEETS NO. 30 4 NO. 70619 | | | |
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SUMMARY OF QUANTITIES (CONT'D)

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| | LOCATION OF WORK: | | FAS 514 (ALLEN STREET) CHAMPAIGN COUNTY S.N. 010-8130 STA. 356+17.00 TO STA. 356+39.00 RURAL 2-LANE 100% STATE Y007 |
|------------|--|-------|---|
| | | | TOTAL |
| CODE NO. | PAYITEM | UNIT | QUANTITY |
| 54001001 | BOX CULVERT END SECTION, CULVERT NO. 1 | EACH | 2.0 |
| 54021202 | PRECAST CONCRETE BOX CULVERT 12' X 2' (M273) | FOOT | 33.0 |
| 54213450 | END SECTIONS 15" | EACH | 2.0 |
| 542D0220 | PIPE CULVERTS, CLASS D, TYPE 1 15" | FOOT | 31.0 |
| 67100100 | MOBILIZATION | L SUM | 1.0 |
| 70103800 | TRAFFIC CONTROL (SPECIAL) | L SUM | 1.0 |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 36.0 |
| X0300247 | REMOVE WOOD POST | EACH | 1.0 |
| XX006084 | REMOVE EXISTING MONUMENT | EACH | 1.0 |
| Z0010555 | DITCH CLEANING | FOOT | 650.0 |

* SPECIALTY ITEMS

| FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - | | | | | |
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| | PLOT SCALE = 40.0000 // IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | |
| | PLOT DATE = 3/1/2010 | DATE - | REVISED - | | SCALE: | SHEET NO. | OF | SHEETS |

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| | | F.A.S. | | SECTION | T | COUNTY | TOTAL | SHEET | | | | | |
| ANTITIES | | 514 | | 81-15D,CR | | CHAMPAIGN | 30 | 5 | 1 | | | | |
| STA. | TO STA. | 1 | | ILLINOI | S FED. AI | PROJECT | | | j | | | | |
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SCHEDULES OF QUANTITIES

| EXPLORATION TR | RENCH, 52" DEPTH (213 | <u>301052)</u> | | | PIPE CULVERT R | EMOVAL (50105220) | | PAINT PAVEME |
|----------------|------------------------|---------------------|-------------------|-------------------|-----------------|--------------------------|-------------------------|--------------|
| STATION | STATION | LENGTH (FT) | | | STATION | OFFSET | FEET | WHITE- |
| 355+89.00 LT | 356+39.00 LT | 50.0 | | | 356+11.00 | 23.0' RT | 17.0 | |
| 355+89.00 RT | 356+39.00 RT | 50.0 | | | | | | STATION |
| | | | | | | TOTA | L= 17.0 | 356+17.00 |
| | тот | AL = 100.0 | | | | | | 356+17.00 |
| | | | | | NAME PLATES (5 | 1500100) | | |
| AGGREGATE SUF | RFACE COURSE, TYPE I | <u>B (40200800)</u> | | | | | | YELLOW - |
| | | | | | STATION | OFFSET | EACH | |
| STATION | LENGTH (FT) | <u>WIDTH (FT)</u> | <u>DEPTH (IN)</u> | TONS | 356+24.00 | 19.0' RT | <u> </u> | STATION |
| 355+75.00 RT | 23.0 | 16.0 | 6.0 | <u> 16.0 </u> | | | 4.0 | 356+17.00 |
| | | | TOTAL = | = 16.0 | | ΤΟΤΑΙ | L= 1.0 | |
| | | | | | | | | |
| BITUMINOUS MAT | FERIALS (PRIME COAT) | (40600100) | | | BOX CULVERT EN | ND SECTION, CULVERT N | <u>IO. 1 (54001001)</u> | |
| | | | | | | | | REMOVE WOOD |
| STATION | STATION | <u>SQ YDS</u> | GALLONS | | STATION | OFFSET | EACH | |
| 356+17.00 | 356+39.00 | 52.0 | 5.2 | | 356+28.00 | 17.0' LT | 1.0 | STATION |
| | | | | | 356+28.00 | 16.0' RT | 1.0 | 356+16.38 |
| | | TOTAL | = 6.0 | | | ΤΟΤΑΙ | L = 2.0 | |
| AGGREGATE SHO | OULDERS, TYPE B. 4" (4 | 18101498) | | | | | | |
| | | · | | | END SECTIONS, 1 | <u>5" (54213450)</u> | | |
| STATION | STATION | LENGTH (FT) | WIDTH (FT) | <u>SQ YDS</u> | | | | REMOVE EXIST |
| 356+17.00 LT | 356+39.00 LT | 24.0 | 3.0 | 8.0 | STATION | OFFSET | EACH | |
| 356+17.00 RT | 356+39.00 RT | 24.0 | 3.0 | 8.0 | 355+59.50 | 23.0' RT | 1.0 | STATION |
| | | | | | 355+90.50 | 23.0' RT | <u> </u> | 356+15.00 |
| | | | тот | AL = 16.0 | | | | 000 10.00 |
| | | | | | | ΤΟΤΑΙ | L = 2.0 | |
| CONCRETE HEAD | WALL REMOVAL (5010 | 04400) | | | | | | |
| STATION | OFFSET | EACH | | | PIPE CULVERTS, | CLASS D, TYPE 1, 15" (54 | <u>42D0220)</u> | |
| 356+02.50 | 23.0' RT | 1.0 | | | | | | |
| 356+19.00 | 23.0' RT | 1.0 | | | STATION | STATION | LENGTH (FT) | |
| | | | | | 355+59.50 RT | 355+90.50 RT | 31.0 | |
| | тот | AL = 2.0 | | | | ΤΟΤΑ | L = 31.0 | |
| | | | | | | τοτα | L= 31.0 | |

| FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | | | | | F.A.S. RTE. | SECTION | COUNTY | TOTA | SHEET |
|--|-----------------------------|------------|-----------|---|---|-----------|----------|------|-----|------|---------|----------------|-----------------|------------|---------|-------|
| c:\pw_work\PWIDOT\HENNESSDM\dms86853\D | 570619-sht-schedules.dgn | DRAWN - | REVISED - | STATE OF ILLINOIS | SCALE: SHEET NO. OF SHEETS STA. TO STA. | 81-15D,CR | CHAMPAIG | N 30 | 8 | | | | | | | |
| | PLOT SCALE = 40.0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | | _ | | CONTRA | CT NO. | 70619 |
| | PLOT DATE = 3/1/2010 | DATE - | REVISED - | S | SCALE: | SHEET NO. | OF | SHE | ETS | STA. | TO STA. | | ILLINOIS FED. A | ID PROJECT | PROJECT | |

MENT MARKING - LINE 4" (78001110)

| STATION | LOCATION | FEET |
|-----------------------------|-----------------------|-------------|
| 356+27.00 | 9.0' LT | 10.0 |
| 356+37.00 | 10.0' RT | 20.0 |
| | SUBTOTAL = | 30.0 |
| <u>STATION</u> 356+39.00 | LOCATION SKIP-DASH | FEET 5.5 |
| | | |

| GRAND TOTAL = 3 | 3.0 |
|-----------------|-----|
|-----------------|-----|

OD POST (X0300247)

| EACH |
|------|
| 1.0 |
| |

TOTAL = 1.0

ISTING MONUMENT (XX006084)

| <u>OFFSET</u> | EACH |
|---------------|------|
| 27.82' LT | 1.0 |

TOTAL = 1.0

SCHEDULES OF QUANTITIES (CONT'D)

| TEMPORARY DIT | CH CHECKS (28 | <u>000305)</u> | S | SEEDING SCHEDULE | | | (28000250) | | | | | | |
|------------------|---------------|----------------|---|---------------------|--------------|--------|------------|------------|------------|------------|------------|------------|------------|
| | | | | | | | TEMPORARY | | | (25000400) | (25000500) | (25000600) | |
| FAS 514 (ALLEN S | STREET) - | | | | | | EROSION | (25000210) | (25000350) | NITROGEN | PHOSPHOR. | POTASS. | (25100115) |
| STATION | | FEET | F | FAS 514 (ALLEN STRE | ET) - | | CONTROL | SEEDING | SEEDING | FERTILIZER | FERTILIZER | FERTILIZER | MULCH |
| LT 353+50.00 | | 13.0 | | | | AREA | SEEDING | CLASS 2A | CLASS 7 | NUTRIENT | NUTRIENT | NUTRIENT | METHOD 2 |
| RT 354+00.00 | | 16.0 | S | STATION | STATION | (ACRE) | (POUND) | (ACRE) | (ACRE) | (POUNDS) | (POUNDS) | (POUNDS) | (ACRE) |
| LT 356+10.00 | | 12.0 | 3 | 353+00.00 LT | 356+28.00 LT | 0.05 | 5.1 | 0.05 | 0.05 | 4.6 | 4.6 | 4.6 | 0.05 |
| RT 356+10.00 | | 16.0 | 3 | 353+75.00 RT | 356+28.00 RT | 0.06 | 6.5 | 0.06 | 0.06 | 5.9 | 5.9 | 5.9 | 0.06 |
| CHAMPAIGN AVE | NUE - | | c | CHAMPAIGN AVENUE | - | | | | | | | | |
| LT 426+00.00 | | 12.0 | | | | | | | | | | | |
| | | | 4 | 425+25.00 LT | 426+25.00 LT | 0.02 | 2.2 | 0.02 | 0.02 | 2.0 | 2.0 | 2.0 | 0.02 |
| | TOTAL = | 69.0 | | | | | | | | | | | |
| | | | | | TOTAL = | 0.13 | 13.8 | 0.13 | 0.13 | 12.4 | 12.4 | 12.4 | 0.13 |
| | | | | | USE = | 0.2 | 20.0 | 0.2 | 0.2 | 18.0 | 18.0 | 18.0 | 0.2 |

PERIMETER EROSION BARRIER (28000400)

DITCH CLEANING (Z0010555)

| STATION | STATION | LENGTH (FT) | FAS 514 (ALLE | N STREET) - | | |
|------------------|----------------------|-------------|----------------|-----------------------|------------------|-----------|
| 353+00.00 LT | 356+23.50 LT | 323.5 | <u>STATION</u> | STATION | <u>LT (FEET)</u> | RT (FEET) |
| | | | 353+00.00 | 353+75.00 | 75.0 | |
| | ΤΟΤΑΙ | L= 324.0 | 353+75.00 | 355+59.50 | 184.5 | 184.5 |
| | | | 355+59.50 | 355+90.50 | 31.0 | |
| | | | 355+90.50 | 356+28.00 _ | 37.5 | 37.5 |
| | | | | | | |
| | | | | SUBTOTAL = | 328.0 | 222.0 |
| INLET AND PIPE P | ROTECTION (28000500) |) | CHAMPAIGN A | VENUE - | | |
| | | | STATION | STATION | LT (FEET) | RT (FEET) |
| STATION | <u>OFFSET</u> | EACH | 425+25.00 | 426+25.00 | 100.0 | |
| 355+56.50 | 23.0' RT | 1.0 | | | | |
| | | | | | | |
| | | | | SUBTOTAL = | 100.0 | |
| | ΤΟΤΑ | L= 1.0 | | SUBTOTAL = TOTAL = | 100.0 428.0 | 222.0 |

| FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - | STATE OF ILLINOIS | SCHEDULES | | | | | F.A.S. | SECTION | COUNTY | TOTAL S | HEET |
|--|-----------------------------|------------|-----------|------------------------------|-----------|--------------|--------|------|---------|-----------------------|-----------|-----------|----------|------|
| c:\pw_work\PWIDOT\HENNESSDM\dms86853\D | 70619-sht-schedules.dgn | DRAWN - | REVISED - | | | | | | | 514 | 81-15D,CR | CHAMPAIGN | 30 | 9 |
| | PLOT SCALE = 40.0000 '/ IN. | CHECKED - | REVISED - | DEPARTMENT OF TRANSPORTATION | | | | | | | | CONTRACT | F NO. 70 | 619 |
| | PLOT DATE = 3/1/2010 | DATE - | REVISED - | | SCALE: | SHEET NO. OF | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PRO | | D PROJECT | PROJECT | |





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SCALE:

FILE NAME =

vpw_work\PWIDOT\HENN

DESIGNED

CHECKED

DRAWN

DATE

USER NAME = hennessdm

PLOT DATE = 3/1/2010

PLOT SCALE = 40.0000 '/ IN.

70619-sht-Details.dgn

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General Notes

End sections will be paid for at the contract unit price per each for BOX CULVERT END SECTION, CULVERT NO. 1, as outlined in Section 540 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.

Class SI concrete shall be used throughout.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications. One drain hole on exterior culvert walls shall be provided for each precast box culvert section.

If the Contractor elects to use a precast cut-off wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273 for a 12' x 4' box, except As1 shall be equal to 0.43 sq. in.

The joints between precast box sections shall be sealed, and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings are not to scale.

TOTAL BILL OF MATERIAL

| ltern | Unit | Total |
|---------------------------------------|-------|-------|
| | | |
| al of Existing Structures | Each | 1 |
| Concrete Box Culverts 12' x 2' (M273) | Foot | 33 |
| Ivert End Section, Culvert No. 1 | Each | 2 |
| Plates | Each | 1 |
| Granular Embankment | Cu Yd | 18.8 |
| | | |
| | | |
| | | |

GENERAL PLAN AND ELEVATION SINGLE 12' x 2' PRECAST BOX CULVERT F.A.S. ROUTE 514 - SECTION 81-15D.CR CHAMPAIGN COUNTY STATION 356+28.00. S.N. 010-8130

| | F.A. RTE | A.S. TE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------------------|-------------|-------------|------------------|-----------|-----------------|--------------|
| GENERAL PLAN AND ELEVAII | N 514 | 14 | 81-15D,CR | CHAMPAIGN | 30 | 11 |
| · · · · · · · · · · · · · · · · · · · | | | | CONTRACT | NO. 1 | 70619 |
| SHEET NO. 1 OF 3 SHEETS STA. | TO STA. | | ILLINOIS FED. AL | PROJECT | | |



DIMENSIONS ** SLOPE Δ В С Е F G Н (FT.-IN.) (FT.-IN. (INCHES) (FT.-IN.) (FT.-IN.) FT.-IN.) (FT.-IN. (X:Y) 2-8 2-8 4 3-0 3-0 1-0 1-0 3:1 3-8 2-8 4 3-0 3-0 1-0 1-0 3:1 3-8 3-8 4 2-0 4-0 1-8 1-4 3:1 4-10 2-10 5 3-0 3-0 1-0 1-0 3:1 4-10 3-10 5 2-0 4-0 1-8 3:1 1-4 4-0 2-0 2**:**1 5 2-0 4-10 4-10 2-0 6-0 3-0 6 3-0 3-0 1-0 1-0 3:1 6-0 4-0 6 2-0 4-0 1-8 1-4 3:1 6-0 5-0 6 2-0 4-0 2-0 2-0 2:1 6-0 6-0 6 3-2 3**:**1 7-2 7 3-0 3-0 1-0 1-0 4-2 7 2-0 7-2 4-0 1-8 1-4 3:1 2-0 4-0 2-0 7-2 2-0 2:1 5-2 7 7-2 6-2 2-0 2-0 7 4-0 3-0 2:1 7-2 7-2 7 2-0 4-0 4-0 2-0 2:1 8-4 5-4 8 2-0 4-0 2-0 2-0 2:1 8-4 6-4 8 8-4 7-4 8 8 8-4 8-4 9-4 5-4 8 2-0 4-0 2-0 2:1 2-0 9-4 6-4 8 9-4 7-4 8 8-4 9-4 8 9-4 9-4 8 10-6 6-6 9 10-6 7-6 9 10-6 8-6 9 10-6 9-6 9 10-6 10-6 9 11-8 6-8 10 7-8 11-8 10 11-8 10 8-8 9-8 10 11-8 11-8 10-8 10 11-8 11-8 10 12-10 5-10 11 12-10 7-10 11 12-10 9-10 11 11 12-10 11-10 12-10 12-10 11 14-0 4-0 3-0 3-0 1-0 1-0 3:1 12 14-0 6-0 12 14-0 8-0 12 14-0 10-0 12 14-0 12-0 12 14-0 14-0 12 Note: All dimensions are in INCHES (millimeters) unless otherwise shown. DIATRIAT E DETAIL NA E4004AAA

| | | וע | SIRICI 5 DETAI | L NU. 54 | UUIA | AA | | | |
|------------|---------|---------------------------|----------------|-----------|-----------------|--------------|--|--|--|
| ID SECTION | | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
| BTION | | 514 | 81-15D,CR | CHAMPAIGN | 30 | 12 | | | |
| | 4 | CONTRACT NO. | | | | 70619 | | | |
| STA. | TO STA. | ILLINOIS FED. AID PROJECT | | | | | | | |

DETAIL OF POROUS GRANULAR EMBANKMENT S.N. 010-8130



POROUS GRANULAR EMBANKMENT SHALL EXTEND 2'-0" BEYOND THE AGGREGATE SHOULDER.

② WORK SHOWN IN THIS DETAIL SHALL BE PERFORMED ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS.



PAY LIMITS OF POROUS GRANULAR EMBANKMENT -CA-6 = 18.8 CU. YDS.

POROUS GRANULAR MATERIAL - CA 7 (INCLUDED IN PAY ITEM FOR BOX CULVERT)

| 1 | ANKMENT DETAIL | | F.A.S. RTE. | SEC | TION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----|----------------|---------|----------------|---------------|----------|-----------|-----------|-----------------|--------------|
| 130 | | 514 | 81-15 | 5D,CR | | CHAMPAIGN | 30 | 13 | |
| | | | | - | | | CONTRACT | NO. 7 | /0619 |
| | STA. | TO STA. | FED. RC | DAD DIST. NO. | ILLINOIS | FED. AI | D PROJECT | | |







| NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - 12/01/06 TJB | | | |
|-----------------------------------|-----------------------------|------------|------------------------|------------------------------|-----------|------------------------|
| _work\PWIDOT\HENNESSDM\dms86853\D | 570619-sht-Details.dgn | DRAWN - | REVISED - 09/21/07 KAG | STATE OF ILLINOIS | F | IELD ENTRANCES (N |
| | PLOT SCALE = 40.0000 '/ IN. | CHECKED - | REVISED - 04/30/08 KJT | DEPARTMENT OF TRANSPORTATION | | |
| | PLOT DATE = 3/2/2010 | DATE - | REVISED - | | SCALE: NA | SHEET NO, 1 OF 2 SHEET |

IONCOMMERCIAL RURAL) CHAMPAIGN 30 16 514 81-15D,CR CONTRACT NO. 70619 TS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

| | RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09) | | | | | | | | | | | | | | |
|-----------------------|---|-------------|----------|---------|-------------|---------|-----------|---------|--|--------------|--------------|---------------|------------------------------|--------------|--|
| | | NEW | CONSTRU | CTION & | 3R with REC | ONSTRUC | TION | | 3 | R w/out RE | CONSTRUC | CTION, 3P, | SMART & C | M | |
| | | NO | NCOMMER | | | | | | NO | NCOMMER | CIAL | | | | |
| | PR | RIVATE & FI | ELD | FIELD I | W/ FARM | с | OMMERCI | AL | PR | RIVATE & FI | ELD | c | OMMERCI/ | ĄL | |
| DESIGN ELEMENT | min. | des. | max. | min. | max. | min. | des. | max. | min. | des. | max. | min. | des. | max. | |
| | | | | | | 1 | LANE, 1 W | AY | | | | 1 | LANE, 1 W | AY | |
| SURFACE WIDTH (FT) | 12 | 16 | 24 | 24 | 30 | 14 | 16 | 24 | | | | | | | |
| | | | | | | 2 | LANE, 2 W | AY | | | | 2 LANE, 2 WAY | | | |
| | | | | | | 24 | 30 | 35 | | | | | | | |
| RADIUS (FT) | 15 | 25 | 40 | 30 | | 20 | 30 | 50 | | | | | | | |
| SHOULDER WIDTH (FT) | 2 | 2 | | 2 | | 1 | 3 | | resurfac | e existina c | onfiguration | · existina a | aareaate o | r earth | |
| SHOULDER SLOPE (%) | 2 | 4 | 6 | 4 | | 2 | 4 | 6 | entrance | es shall hav | e the contin | uation of a | ation of aggregate shoulders | | |
| ENTRANCE GRADE (%) | 0 | 2 to 5 | 10 or 12 | 2 to 5 | 10 or 12 | 0 | 2 to 5 | 8 or 10 | placed t | behind them | - <u></u> | | ,g g | | |
| SIDE SLOPE (FT) | 1:4 | 1:6 | 1:10 | 1:4 | 1:6 | 1:4 | 1:6 | 1:10 | • | | | | | | |
| SURFACE TYPE | | | | | | | | | | | | | | | |
| INCIDENTAL HMA | | 2 | | 2 | | 3 or 4 | | | taper fron | n hma resui | facing thick | ness (2 1/2' | ', 2 1/4" or ' | 1 1/2") to 1 | |
| SURFACING (INCH) | | | | | | | | | lder | | | | | | |
| AGGREGATE SURFACE | | 6 | | 6 | | 8 | | | if applicable use items: Preparation of Base & Aggrega | | | | | | |
| COURSE, TYPE B (INCH) | | | | | | | | | Repair; | see PPM 3 | 0-02 | | | | |
| PCC DRIVEWAY | | 6 | | | | | | 6 or 8 | | | | | | | |
| PAVEMENT (INCH) | | | | | | | | | | | | | | | |

| | | | | | | | | | DIST | FRICT 5 | DETAIL | NO. 408 | 300050 | JA |
|--|------------------------------|------------|------------------------|------------------------------|-----------|-------------------------|-----------|----------|-----------|-------------|-------------------|-----------|----------|-----------|
| FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - 12/01/06 TJB | | | | | | F.A.S. | SECT | ION | COUNTY | TOTAL S | HEET |
| c:\pw_work\PWIDOT\HENNESSDM\dms86853\D | 570619-sht-Details.dgn | DRAWN - | REVISED - 09/21/07 KAG | STATE OF ILLINOIS | | FIELD ENTRANCES (NONCO | DMMERCIAL | . RURAL) | 514 | 81-150 | D.CR | CHAMPAIGN | 30 | 17 |
| | PLOT SCALE = 40.0000 ′ / IN. | CHECKED - | REVISED - 04/30/08 KJT | DEPARTMENT OF TRANSPORTATION | | | | | | | | CONTRACT | T NO. 70 | 619 |
| | PLOT DATE = 3/2/2010 | DATE - | REVISED - | | SCALE: NA | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA. | FED. ROAD | D DIST. NO. | ILLINOIS FED. AID | PROJECT | | - |

GENERAL NOTES

- 1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
- 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.



PLOT DATE = 3/5/2010

DATE

REVISED

SCALE: SHEET NO. OF SHEETS

| THENT OF EVICTING | | F.A. RTE | 5. | SECTION | | | | | COUNTY | SHEETS | NO. | |
|-------------------|------|--------------|------|---------|-------|-------|----------|--------|--------|-----------|---------|-------|
| I | MENT | OF EXISTING) | 514 | 4 | | 81-15 | 5D,CR | | | CHAMPAIGN | 30 | 17A |
| | | | | | | | | | | CONTRACT | Γ ΝΟ. Τ | 70619 |
| | STA. | TO STA. | FED. | ROAD | DIST. | NO. | ILLINOIS | FED. / | AID | PROJECT | | |
| | | | | | | | | | | | | |

ROAD CLOSURE







| | | | | | | | | | | | וע | SIRICI S DEIA | IL NU. | /02000 | 100 |
|--|-----------------------------|------------|-----------------------|------------------------------|--------|-----------|------|--------|-----------|-----------|--------------|----------------------------|------------|---------|-------|
| FILE NAME = | USER NAME = hennessdm | DESIGNED - | REVISED - 11/06 | | | TRAFFIC | CONT | NI & P | ROTECTION | | F.A.S RTF | SECTION | COUNTY | TOTAL | SHEET |
| c:\pw_work\PWIDOT\HENNESSDM\dms86853\D | 570619-sht-Details.dgn | DRAWN - | REVISED - 12/07 | STATE OF ILLINOIS | | | | | 514 | 81-15D.CR | CHAMPAIG | N 30 | 18 | | |
| | PLOT SCALE = 40.0000 '/ IN. | CHECKED - | REVISED - 09/09 - KJT | DEPARTMENT OF TRANSPORTATION | | (NUAU | α 31 | JENUAL | SINEET UL | USUNES | | , | CONTR/ | ACT NO. | 70619 |
| | PLOT DATE = 3/2/2010 | DATE - | REVISED - | | SCALE: | SHEET NO. | 0F | SHEETS | STA. | TO STA. | FED. ROA | AD DIST. NO. ILLINOIS FED. | ID PROJECT | - | - |
| | | | | | | | | | | | | | | | |

SIDEROAD / STREET CLOSURE



| | | | DI | STRI | CT ! | 5 DE | TAI | L NO. | 78 | 00AA | AA | | |
|---------------|---------------|---------|----------------|-----------|-------|----------|--------|------------|------|-----------------|--------------|--|--|
| G AND MARKERS | | | F.A.S. RTE. | | SEC | TION | | COUNT | Y | TOTAL SHEETS | SHEET NO. | | |
| 1 | PPI ICATIONS) | - | 514 | | 81-15 | iD,CR | | CHAMPAI | GN | 30 19 | | | |
| - | | | | | | | | CONTR | RAC1 | Γ ΝΟ. ΄ | 70619 | | |
| | STA. | TO STA. | FED. R | DAD DIST. | NO. | ILLINOIS | FED. A | ID PROJECT | | | | | |



DATE

PLOT DATE = 3/2/2010

REVISED

SCALE: SHEET NO. 2 OF 4 SHEETS STA.



PLOT DATE = 3/2/2010

DATE

REVISED

| | | | | | | DIST | RICT 5 DETAIL | NO. 780 | DOAA | AA |
|------------------------------|--------|------------------|--------|-------------|---------|----------------|-----------------------------|-----------|-----------------|--------------|
| | | PAVEMENT MA | RKING | AND MARKE | RS | F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| STATE OF ILLINOIS | | (RURAL & UR | BAN A | PPLICATIONS |) | 514 | 81-15D,CR | CHAMPAIGN | 30 | 21 |
| DEPARTMENT OF TRANSPORTATION | | • | | | · | | | CONTRAC | F NO. 7 | 0619 |
| | SCALE: | SHEET NO. 3 OF 4 | SHEETS | STA. | TO STA. | FED. ROAD | DIST. NO. ILLINOIS FED. AIL |) PROJECT | | |



DATE

PLOT DATE = 3/2/2010

REVISED

SCALE:

SHEET NO. 4 OF 4 SHEETS

| | | | DI | STRICT 5 | DETAIL | . NO. 78 | DOAA | AA | | | |
|---|-------------|---------|--------|---------------|------------------|-----------|-----------------|--------------|--|--|--|
| G | AND MARKERS | | | SEC | FION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
| | | | 514 | 81-15 | D,CR | CHAMPAIGN | 30 | 30 22 | | | |
| | | | | | | CONTRACT | F NO. 7 | 70619 | | | |
| | STA. | TO STA. | FED. R | OAD DIST. NO. | ILLINOIS FED. AI | D PROJECT | | | | | |
| | | | | | | | | | | | |















