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| F.A. RTE.             | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE     | 232              | 2         |
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INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

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| 701106-01 | OFF ROAD OPERATIONS - MULTILANE - MORE THAN 15FT AWAY                    |
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| 701421-01 | LANE CLOSURE MULTILANE - DAY OPERATIONS ONLY 45-55 MPH                   |
| 701422-01 | LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH                   |
| 701426-02 | LANE CLOSURE MULTILANE - INTERMITTENT OR MOVING OP 45 MPH+               |

|           |                                                             |
|-----------|-------------------------------------------------------------|
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| 701601-05 | URBAN LANE CLOSURE MULTILANE 1W2W + NONTRAVESABLE MED       |
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| 877001-03 | STEEL MAST ARM ASSEMBLY & POLE 16' THRU 55'                 |
| 877011-03 | STEEL COMBINATION MAST ARM ASSEMBLY & POLE 16' THRU 55'     |
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| 880001    | SPAN WIRE MOUNT SIGNALS & FLASH BEACON INSTALL              |
| 880006    | TRAFFIC SIGNAL MOUNT DETAILS - POST & BRACKET MOUNT         |
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| BLR2-2    | COMBINATION SECTION & ROW MARKERS                           |

HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE

| PAY ITEM DESCRIPTION                                                                                 | AC TYPE           | VOIDS        |
|------------------------------------------------------------------------------------------------------|-------------------|--------------|
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50                                                         | PG 64 -22         | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70                                                          | PG 64 -22*        | 4% @ 70 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70<br>INCIDENTAL HOT-MIX ASPHALT SURFACING                 | PG 64 -22         | 4% @ 70 Gyr. |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,<br>MIX "F", N90,                                         | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| HOT-MIX ASPHALT BINDER COURSE,IL-19.0, N90                                                           | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50                                                       | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| HOT-MIX ASPHALT SHOULDERS 8"<br>(HMA BINDER IL-19 mm) (BOTTOM 6")<br>(HMA SURFACE IL-9.5mm) (TOP 2") | PG 64 -22         | 4% @ 50 Gyr. |
| CLASS D PATCHES TYPE II, 6 INCH<br>CLASS D PATCHES TYPE III, 6 INCH                                  | PG 64 -22*        | 4% @ 70 Gyr. |
| CLASS D PATCHES TYPE II, 15 INCH                                                                     | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| TEMPORARY RAMP                                                                                       | PG 64 -22*        | 4% @ 70 Gyr. |

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT QUANTITIES IS 112 LBS/SQ. YD./INCH.

| DATE | BY | REVISION  |
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| ROADWAY CLASSIFICATION                                                                                                                      | STRUCTURAL PAVEMENT DESIGN INFORMATION                                                                                 |                                                                                                                       |                                           |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
|                                                                                                                                             | MUNICIPAL DR.                                                                                                          | GALENA BLVD                                                                                                           | US 30                                     | IL 47                                     |
| POSTED SPEED LIMIT                                                                                                                          | URBAN COLLECTOR<br>S. OF US 30: 30 MPH<br>N. OF US 30: N/A                                                             | E. OF IL 47: MINOR URBAN ARTERIAL<br>W. OF IL 47: URBAN COLLECTOR<br>E. OF IL 47: 55 MPH<br>W. OF IL 47: N/A          | OTHER PRINCIPAL ARTERIAL<br>55 MPH        | STRATEGIC REGIONAL ARTERIAL<br>45 MPH     |
| DESIGN DESIGNATION                                                                                                                          | 1,200(30) COLLECTOR 1.91 (FD 20)<br>S. OF US 30: 1,300 (2007), 130<br>N. OF US 30: 12,000 (2030), 1,200<br>92%, 6%, 2% | 1,600(30) COLLECTOR 2.53 (FD20)<br>E. OF IL 47: 7,200 (2007), 720<br>W. OF IL 47: 16,000 (2030), 1,600<br>92%, 6%, 2% | 13,000 (2007), 1,300<br>91.3%, 3.0%, 7.2% | 19,000 (2007), 1,900<br>86.9%, 5.9%, 7.2% |
| STR. DESIGN TRAFFIC (YEAR), DHV<br>VEHICLE BREAKDOWN %: PV, SU, MU<br>% STR. DESIGN TRAF . IN DESIGN LANE<br>TRAFFIC FACTOR ACTUAL, MINIMUM | PV: 32%, SU : 45%, MU : 45%<br>1.91, NO MINIMUM                                                                        | PV: 32%, SU : 45%, MU : 45%<br>2.53, NO MINIMUM                                                                       | PV: 32%, SU : 45%, MU : 45%               | PV: 32%, SU : 45%, MU : 45%               |
| AC TYPE                                                                                                                                     | AC 20                                                                                                                  | AC 20                                                                                                                 | AC 20                                     | AC 20                                     |
| PG GRADE BINDER / SURFACE                                                                                                                   | PG 64 / P.G 64                                                                                                         | PG 64 / P.G 64                                                                                                        | PG 70 / P.G 70                            | PG 70 / P.G 70                            |
| SUBGRADE SUPPORT RATING                                                                                                                     | POOR                                                                                                                   | POOR                                                                                                                  | POOR                                      | POOR                                      |

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION                                                                  |
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REVISED 7/11/08



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| F.A. RTE.           | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE     | 232              | 8         |
| STA.                |                | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |                | ILLINOIS | FED. AID PROJECT |           |

SUMMARY OF QUANTITIES

| SPECIALTY ITEMS | PAY ITEM NUMBER | PAY ITEM DESCRIPTION                                                                  | UNITS | QUANTITY | 80% FEDERAL 20% VILLAGE |                      |                            |                           |                                      | YOGO 100% VILLAGE |
|-----------------|-----------------|---------------------------------------------------------------------------------------|-------|----------|-------------------------|----------------------|----------------------------|---------------------------|--------------------------------------|-------------------|
|                 |                 |                                                                                       |       |          | 1000-2A                 | Y002 - TRAFFIC SIGNS | Y030 - /E HIGHWAY LIGHTING | Y031 - /F TRAFFIC SIGNALS | Y046 - BICYCLE & PEDESTRIAN FACILITY |                   |
|                 | 73400200        | DRILLED SHAFT CONCRETE FOUNDATIONS                                                    | CU YD | 3        |                         | 3                    |                            |                           |                                      |                   |
|                 | * 78000100      | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS                                  | SQ FT | 1994     | 1994                    |                      |                            |                           |                                      |                   |
|                 | * 78000200      | THERMOPLASTIC PAVEMENT MARKING - LINE 4"                                              | FOOT  | 30504    | 30504                   |                      |                            |                           |                                      |                   |
|                 | * 78000400      | THERMOPLASTIC PAVEMENT MARKING - LINE 6"                                              | FOOT  | 10591    | 10591                   |                      |                            |                           |                                      |                   |
|                 | * 78000600      | THERMOPLASTIC PAVEMENT MARKING - LINE 12"                                             | FOOT  | 1446     | 1446                    |                      |                            |                           |                                      |                   |
|                 | * 78000650      | THERMOPLASTIC PAVEMENT MARKING - LINE 24"                                             | FOOT  | 520      | 520                     |                      |                            |                           |                                      |                   |
|                 | * 78100100      | RAISED REFLECTIVE PAVEMENT MARKER                                                     | EACH  | 357      | 357                     |                      |                            |                           |                                      |                   |
|                 | * 78200410      | GUARDRAIL MARKERS, TYPE A                                                             | EACH  | 10       | 10                      |                      |                            |                           |                                      |                   |
|                 | * 78201000      | TERMINAL MARKER - DIRECT APPLIED                                                      | EACH  | 2        | 2                       |                      |                            |                           |                                      |                   |
|                 | 78300100        | PAVEMENT MARKING REMOVAL                                                              | SQ FT | 1730     | 1730                    |                      |                            |                           |                                      |                   |
|                 | 78300200        | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                                             | EACH  | 300      | 300                     |                      |                            |                           |                                      |                   |
|                 | * 80400100      | ELECTRIC SERVICE INSTALLATION                                                         | EACH  | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 80400200      | ELECTRIC UTILITY SERVICE CONNECTION                                                   | L SUM | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 81000600      | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL                                          | FOOT  | 2095     |                         |                      |                            | 2095                      |                                      |                   |
|                 | * 81000700      | CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL                                      | FOOT  | 596      |                         |                      |                            | 596                       |                                      |                   |
|                 | * 81000800      | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL                                          | FOOT  | 285      |                         |                      | 240                        | 45                        |                                      |                   |
|                 | * 81001000      | CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL                                          | FOOT  | 235      |                         |                      |                            | 235                       |                                      |                   |
|                 | * 81001100      | CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL                                          | FOOT  | 20       |                         |                      |                            | 20                        |                                      |                   |
|                 | * 81018500      | CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL                                             | FOOT  | 359      |                         |                      |                            | 359                       |                                      |                   |
|                 | * 81018600      | CONDUIT, PUSHED 2-1/2" DIA., GALVANIZED STEEL                                         | FOOT  | 238      |                         |                      | 190                        | 48                        |                                      |                   |
|                 | * 81018900      | CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL                                             | FOOT  | 1215     |                         |                      | 306                        | 909                       |                                      |                   |
|                 | * 81400100      | HANDHOLE                                                                              | EACH  | 10       |                         |                      |                            | 10                        |                                      |                   |
|                 | * 81400200      | HEAVY-DUTY HANDHOLE                                                                   | EACH  | 7        |                         |                      |                            | 7                         |                                      |                   |
|                 | * 81400300      | DOUBLE HANDHOLE                                                                       | EACH  | 4        |                         |                      |                            | 4                         |                                      |                   |
|                 | * 81603210      | UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE | FOOT  | 4469     |                         |                      | 4469                       |                           |                                      |                   |
|                 | 81701345        | ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C NO. 3/0                          | FOOT  | 280      |                         |                      | 280                        |                           |                                      |                   |
|                 | * 81800320      | AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE                                         | FOOT  | 800      |                         |                      | 800                        |                           |                                      |                   |
|                 | * 81900200      | TRENCH AND BACKFILL FOR ELECTRICAL WORK                                               | FOOT  | 3715     |                         |                      | 500                        | 3215                      |                                      |                   |
|                 | * 82102310      | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT                                   | EACH  | 4        |                         |                      | 4                          |                           |                                      |                   |
|                 | * 82102400      | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT                                   | EACH  | 22       |                         |                      | 18                         |                           |                                      |                   |
|                 | * 82500505      | LIGHTING CONTROLLER, SPECIAL                                                          | EACH  | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 83050730      | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 8 FT. DAVIT ARM                                  | EACH  | 8        |                         |                      | 8                          |                           |                                      |                   |
|                 | * 83050800      | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM                                  | EACH  | 14       |                         |                      | 14                         |                           |                                      |                   |
|                 | * 83057220      | LIGHT POLE, WOOD, 40 FOOT, CLASS 4                                                    | EACH  | 2        |                         |                      | 2                          |                           |                                      |                   |
|                 | * 83600200      | LIGHT POLE FOUNDATION, 24" DIAMETER                                                   | FOOT  | 180      |                         |                      | 180                        |                           |                                      |                   |
|                 | * 83600215      | LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET                                           | FOOT  | 40       |                         |                      | 40                         |                           |                                      |                   |
|                 | * 83800205      | BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE                               | EACH  | 22       |                         |                      | 22                         |                           |                                      |                   |
|                 | * 84100110      | REMOVAL OF TEMPORARY LIGHTING UNITS                                                   | EACH  | 2        |                         |                      | 2                          |                           |                                      |                   |
|                 | * 84200500      | REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE                                            | EACH  | 2        |                         |                      | 2                          |                           |                                      |                   |
|                 | * 84200600      | REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE                                         | EACH  | 6        |                         |                      | 6                          |                           |                                      |                   |
|                 | * 84200705      | LIGHTING FOUNDATION REMOVAL, PARTIAL                                                  | EACH  | 8        |                         |                      | 8                          |                           |                                      |                   |
|                 | * 84500110      | REMOVAL OF LIGHTING CONTROLLER                                                        | EACH  | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 84500120      | REMOVAL OF ELECTRIC SERVICE INSTALLATION                                              | EACH  | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 84500130      | REMOVAL OF LIGHTING CONTROLLER FOUNDATION                                             | EACH  | 1        |                         |                      | 1                          |                           |                                      |                   |
|                 | * 85700200      | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET                                          | EACH  | 1        |                         |                      |                            | 1                         |                                      |                   |

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REVISIO 7/11/08

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION                                                                                              |
|-----------|------|------------------------------------------------------------------------------------------------------------------------------------|
| NAME      | DATE |                                                                                                                                    |
|           |      | <p style="text-align: center;">SUMMARY OF QUANTITIES</p> <p>SCALE: NTS<br/>DATE: 02/07/08</p> <p>DRAWN BY:<br/>CHECKED BY: WBR</p> |
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| N/A                   | 06-00017-00-PV | KANE     | 232              | 10        |
| STA.                  |                | TO STA.  |                  |           |
| FED. ROAD DIST. NO. _ |                | ILLINOIS | FED. AID PROJECT |           |

SUMMARY OF QUANTITIES

| SPECIALTY ITEMS | PAY ITEM NUMBER | PAY ITEM DESCRIPTION                                                                                                     | UNITS | QUANTITY | 80 % FEDERAL 20% VILLAGE |                      |                            |                           |                                      |                 |                   |
|-----------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|-------|----------|--------------------------|----------------------|----------------------------|---------------------------|--------------------------------------|-----------------|-------------------|
|                 |                 |                                                                                                                          |       |          | 1000-2A                  | Y002 - TRAFFIC SIGNS | Y030 - /E HIGHWAY LIGHTING | Y031 - /E TRAFFIC SIGNALS | Y046 - BICYCLE & PEDESTRIAN FACILITY | Y080 - TRAINING | Y060 100% VILLAGE |
|                 | XX003919        | FLAGPOLE RELOCATION                                                                                                      | L SUM | 1        | 1                        |                      |                            |                           |                                      |                 |                   |
|                 | XX004096        | REMOVE AND RE-INSTALL CONCRETE FLARED END SECTIONS                                                                       | EACH  | 7        | 7                        |                      |                            |                           |                                      |                 |                   |
| *               | XX004731        | CONNECTION TO EXISTING WATERMAIN                                                                                         | EACH  | 4        |                          |                      |                            |                           |                                      |                 | 4                 |
| *               | XX004907        | GATE VALVE 12" WITH VAULT, 5' DIAMETER                                                                                   | EACH  | 8        |                          |                      |                            |                           |                                      |                 | 8                 |
| *               | X0325725        | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2                                                                                | EACH  | 1        |                          |                      |                            | 1                         |                                      |                 |                   |
|                 | XX005084        | LIGHTING CONTROLLER FOUNDATION                                                                                           | EACH  | 1        |                          |                      | 1                          |                           |                                      |                 |                   |
|                 | XX005106        | PVC CASING PIPE, 18"                                                                                                     | FOOT  | 25       |                          |                      |                            |                           |                                      |                 | 25                |
| *               | XX005401        | STEEL CASING PIPE 24" (BORED AND JACKED)                                                                                 | FOOT  | 365      |                          |                      |                            |                           |                                      |                 | 365               |
| *               | X8620020        | UNINTERRUPTIBLE POWER SUPPLY                                                                                             | EACH  | 2        |                          |                      |                            | 2                         |                                      |                 |                   |
| *               | XX006937        | GROUND ROD, 5/8" DIA X 10 FT.                                                                                            | EACH  | 20       |                          |                      | 20                         |                           |                                      |                 |                   |
|                 | Z0001050        | AGGREGATE SUBGRADE 12"                                                                                                   | SQ YD | 34,661   | 34,661                   |                      |                            |                           |                                      |                 |                   |
|                 | Z0002750        | BARRICADES, TYPE III                                                                                                     | EACH  | 9        | 9                        |                      |                            |                           |                                      |                 |                   |
|                 | Z0076600        | TRAINEES                                                                                                                 | HOUR  | 5,000    |                          |                      |                            |                           |                                      | 5,000           |                   |
| *               | XX007558        | GATE VALVE 6" WITH VAULT, 4' DIAMETER                                                                                    | EACH  | 1        |                          |                      |                            |                           |                                      |                 | 1                 |
| *               | XX007559        | GATE VALVE 8" WITH VAULT, 4' DIAMETER                                                                                    | EACH  | 1        |                          |                      |                            |                           |                                      |                 | 1                 |
| *               | XX007560        | SANITARY SEWER, PVC SDR-21, 10"                                                                                          | FOOT  | 815      |                          |                      |                            |                           |                                      |                 | 815               |
| *               | XX007561        | SANITARY SEWER, PVC SDR-21, 12"                                                                                          | FOOT  | 545      |                          |                      |                            |                           |                                      |                 | 545               |
|                 | XX007562        | SIGN REMOVAL, SPECIAL                                                                                                    | L SUM | 1        |                          | 1                    |                            |                           |                                      |                 |                   |
|                 | X0324879        | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE                                                                  | EACH  | 4        | 4                        |                      |                            |                           |                                      |                 |                   |
| *               | XX007563        | TEMPORARY LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT 310 WATT WITH PHOTOCELL                                               | EACH  | 4        |                          |                      |                            | 4                         |                                      |                 |                   |
| *               | XX007564        | TEMPORARY LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT 400 WATT WITH PHOTOCELL                                               | EACH  | 4        |                          |                      |                            | 4                         |                                      |                 |                   |
| *               | XX007565        | POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE 600 V (EPR-TYPE RHW) 3-1/C NO. 6 AND 1/C NO. 6 GROUND | FOOT  | 5,350    |                          |                      |                            | 5,350                     |                                      |                 |                   |
|                 | XX007566        | STORM SEWER REMOVAL AND REINSTALLATION, 15"                                                                              | FOOT  | 25       | 25                       |                      |                            |                           |                                      |                 |                   |
|                 | X8950100        | RELOCATE EXISTING MASTER CONTROLLER                                                                                      | EACH  | 2        |                          |                      |                            |                           |                                      |                 | 2                 |
|                 | 86400100        | TRANSCIVER - FIBER OPTIC                                                                                                 | EACH  | 1        |                          |                      |                            |                           |                                      |                 | 1                 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

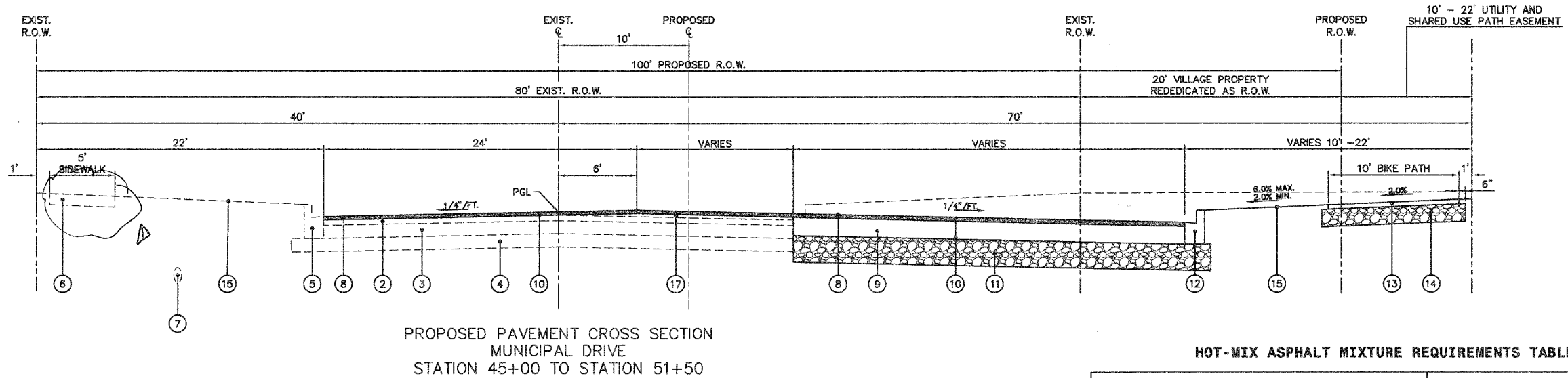
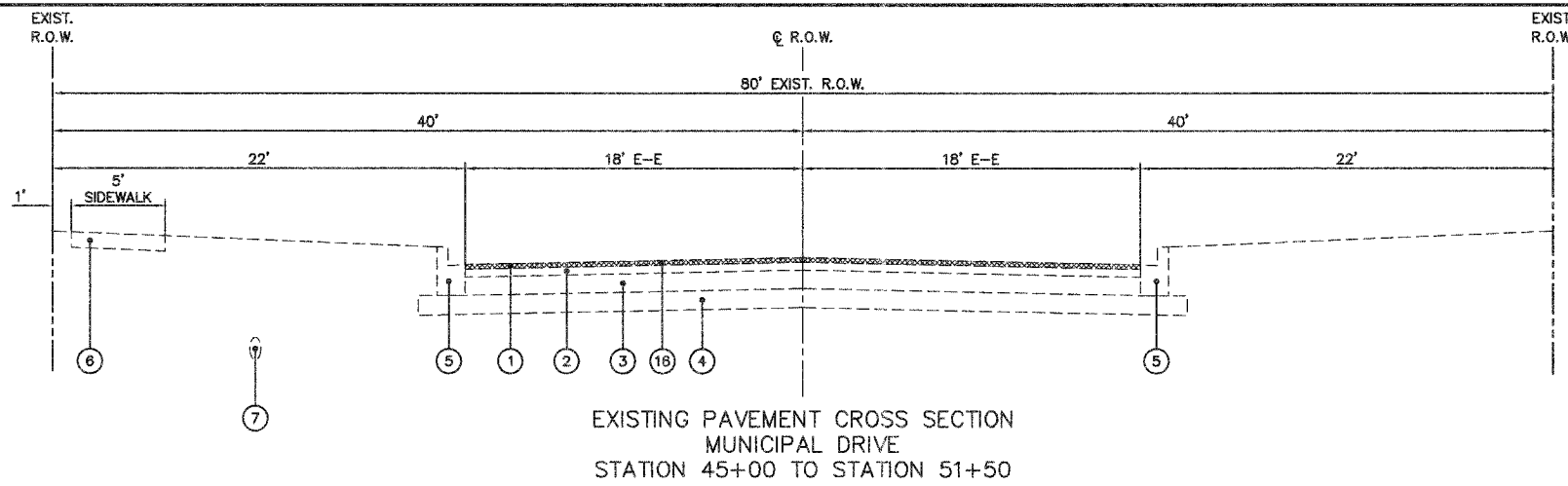
**SUMMARY OF QUANTITIES**

SCALE: NTS  
DATE: 02/07/08

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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE                      | 232          | 11        |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



**LEGEND**

- |                                                                |                                                                        |
|----------------------------------------------------------------|------------------------------------------------------------------------|
| ① EXISTING BITUMINOUS CONCRETE SURFACE, 1.5"                   | ⑩ BITUMINOUS MATERIAL (PRIME COAT)                                     |
| ② EXISTING BITUMINOUS CONCRETE BINDER, 2.5"                    | ⑪ AGGREGATE SUBGRADE, 12"                                              |
| ③ EXISTING BITUMINOUS BASE COURSE, 6"                          | ⑫ COMBINATION CONCRETE CURB AND GUTTER, B-6.12                         |
| ④ EXISTING AGGREGATE CASE COURSE, 6"                           | ⑬ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"                     |
| ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER, B-6.12        | ⑭ SUB-BASE GRANULAR MATERIAL, TYPE B, 8"                               |
| ⑥ EXISTING PORTLAND CEMENT CONCRETE SIDEWALK                   | ⑮ 4" TOPSOIL, SEEDING CLASS 1A, AND MULCH METHOD 3                     |
| ⑦ EXISTING 10" WATER MAIN                                      | ⑯ HOT-MIX ASPHALT SURFACE REMOVAL, 2"                                  |
| ⑧ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2" | ⑰ POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50 (0 - 1.5") |
| ⑨ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8.5"            |                                                                        |

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE**

| PAY ITEM DESCRIPTION                                                                           | AC TYPE           | VOIDS        |
|------------------------------------------------------------------------------------------------|-------------------|--------------|
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50                                                   | PG 64 -22         | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70                                                    | PG 64 -22*        | 4% @ 70 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 INCIDENTAL HOT-MIX ASPHALT SURFACING              | PG 64 -22         | 4% @ 70 Gyr. |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90,                                      | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90                                                    | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50                                                 | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| HOT-MIX ASPHALT SHOULDERS 8" (HMA BINDER IL-19 mm) (BOTTOM 6") (HMA SURFACE IL-9.5mm) (TOP 2") | PG 64 -22         | 4% @ 50 Gyr. |
| CLASS D PATCHES TYPE II, 6 INCH                                                                | PG 64 -22*        | 4% @ 70 Gyr. |
| CLASS D PATCHES TYPE III, 6 INCH                                                               | SBS/SBR PG 70 -22 | 4% @ 90 Gyr. |
| TEMPORARY RAMP                                                                                 | PG 64 -22*        | 4% @ 70 Gyr. |

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT QUANTITIES IS 112 LBS/SQ. YD./INCH.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL CROSS SECTIONS**

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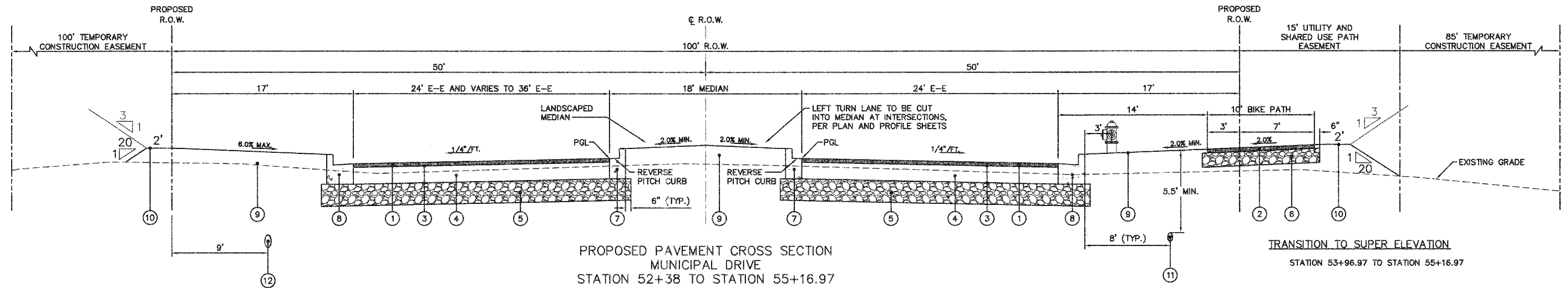
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| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE             | 232          | 12        |
| STA.                | TO STA.        |                  |              |           |
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**LEGEND**

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| ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 2" | ⑧ COMBINATION CONCRETE CURB AND GUTTER, B-6.24     |
| ② HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"             | ⑨ 4" TOPSOIL, SEEDING CLASS 1A, AND MULCH METHOD 3 |
| ③ BITUMINOUS MATERIAL (PRIME COAT)                             | ⑩ 4" TOPSOIL, SEEDING CLASS 2, AND MULCH METHOD 3  |
| ④ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 9"              | ⑪ WATER MAIN                                       |
| ⑤ AGGREGATE SUBGRADE, 12"                                      | ⑫ STORM SEWER                                      |
| ⑥ SUB-BASE GRANULAR MATERIAL, TYPE B, 8"                       | ⑬ CONCRETE MEDIAN, TYPE SB-6.12                    |
| ⑦ COMBINATION CONCRETE CURB AND GUTTER, B-6.12                 |                                                    |

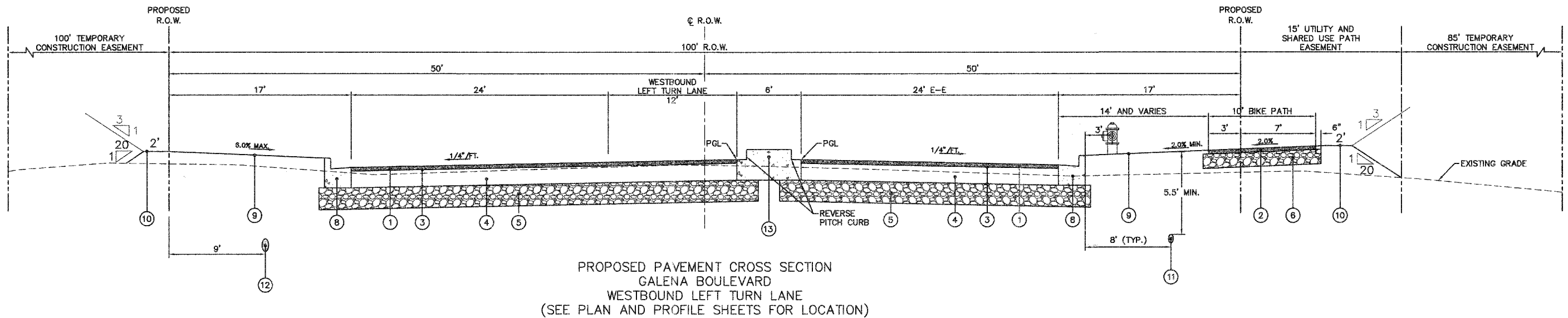
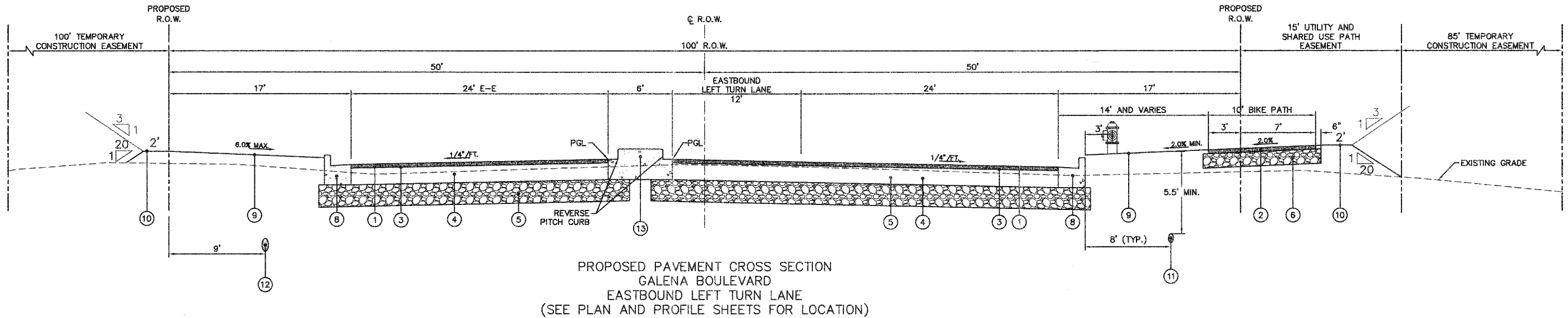
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**LEGEND**

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (STA. 200+50 TO 224+00)
- ② HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"
- ③ BITUMINOUS MATERIAL (PRIME COAT)
- ④ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 9.5" (STA. 200+50 TO 224+00)
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 9.5" (STA. 224+00 TO 229+87)
- ⑥ AGGREGATE SUBGRADE, 12"
- ⑦ SUB-BASE GRANULAR MATERIAL, TYPE B, 8"
- ⑧ COMBINATION CONCRETE CURB AND GUTTER, B-6.12
- ⑨ COMBINATION CONCRETE CURB AND GUTTER, B-6.24
- ⑩ 4" TOPSOIL, SEEDING CLASS 1A, AND MULCH METHOD 3
- ⑪ 4" TOPSOIL, SEEDING CLASS 2, AND MULCH METHOD 3
- ⑫ WATER MAIN
- ⑬ STORM SEWER
- ⑭ CONCRETE MEDIAN, TYPE SB-6.12

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ILLINOIS DEPARTMENT OF TRANSPORTATION

## TYPICAL CROSS SECTIONS

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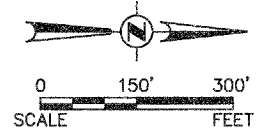






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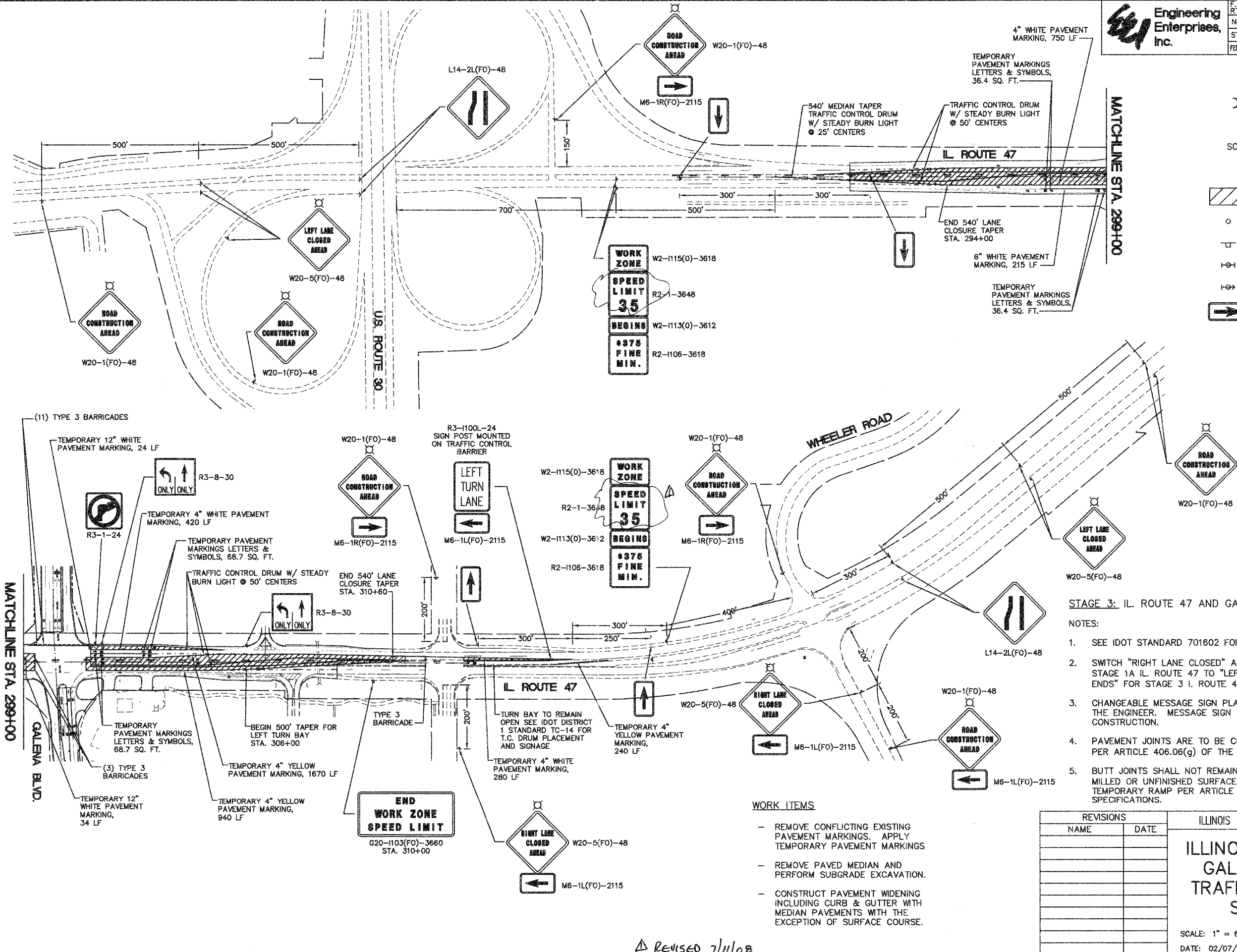
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| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE             | 232          | 69        |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |



- WORK AREA
- TRAFFIC CONTROL DRUM W/ STEADY BURN AMBER LIGHT
- SIGN
- TYPE 3 BARRICADE
- DIRECTIONAL INDICATOR BARRICADE
- ARROW BOARD

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**STAGE 3: IL. ROUTE 47 AND GALENA BOULEVARD**

- NOTES:
- SEE IDOT STANDARD 701602 FOR MORE INFORMATION.
  - SWITCH "RIGHT LANE CLOSED" AND "RIGHT LANE ENDS" SIGNS FROM STAGE 1A IL. ROUTE 47 TO "LEFT LANE CLOSED" AND "LEFT LANE ENDS" FOR STAGE 3 I. ROUTE 47.
  - CHANGEABLE MESSAGE SIGN PLACEMENT WILL BE AT THE DIRECTION OF THE ENGINEER. MESSAGE SIGN TO REMAIN THROUGH IL. ROUTE 47 CONSTRUCTION.
  - PAVEMENT JOINTS ARE TO BE CONSISTENT WITH FUTURE LANE LINES PER ARTICLE 406.06(g) OF THE STANDARD SPECIFICATIONS.
  - BUTT JOINTS SHALL NOT REMAIN EXPOSED TO TRAFFIC OVER NIGHT. MILLED OR UNFINISHED SURFACES WILL REQUIRE A 40(H) : 1(V) TEMPORARY RAMP PER ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS.

**WORK ITEMS**

- REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. APPLY TEMPORARY PAVEMENT MARKINGS
- REMOVE PAVED MEDIAN AND PERFORM SUBGRADE EXCAVATION.
- CONSTRUCT PAVEMENT WIDENING INCLUDING CURB & GUTTER WITH MEDIAN PAVEMENTS WITH THE EXCEPTION OF SURFACE COURSE.

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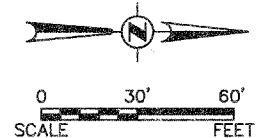
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ILLINOIS ROUTE 47 AND GALENA BOULEVARD TRAFFIC CONTROL AND STAGING PLAN**

SCALE: 1" = 60'  
DATE: 02/07/08  
DRAWN BY:  
CHECKED BY: WBR

REvised 7/11/08

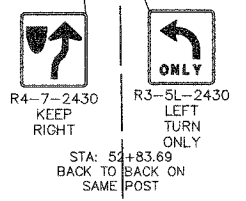
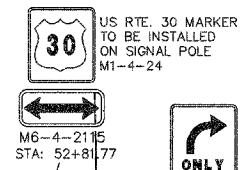
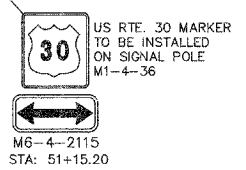
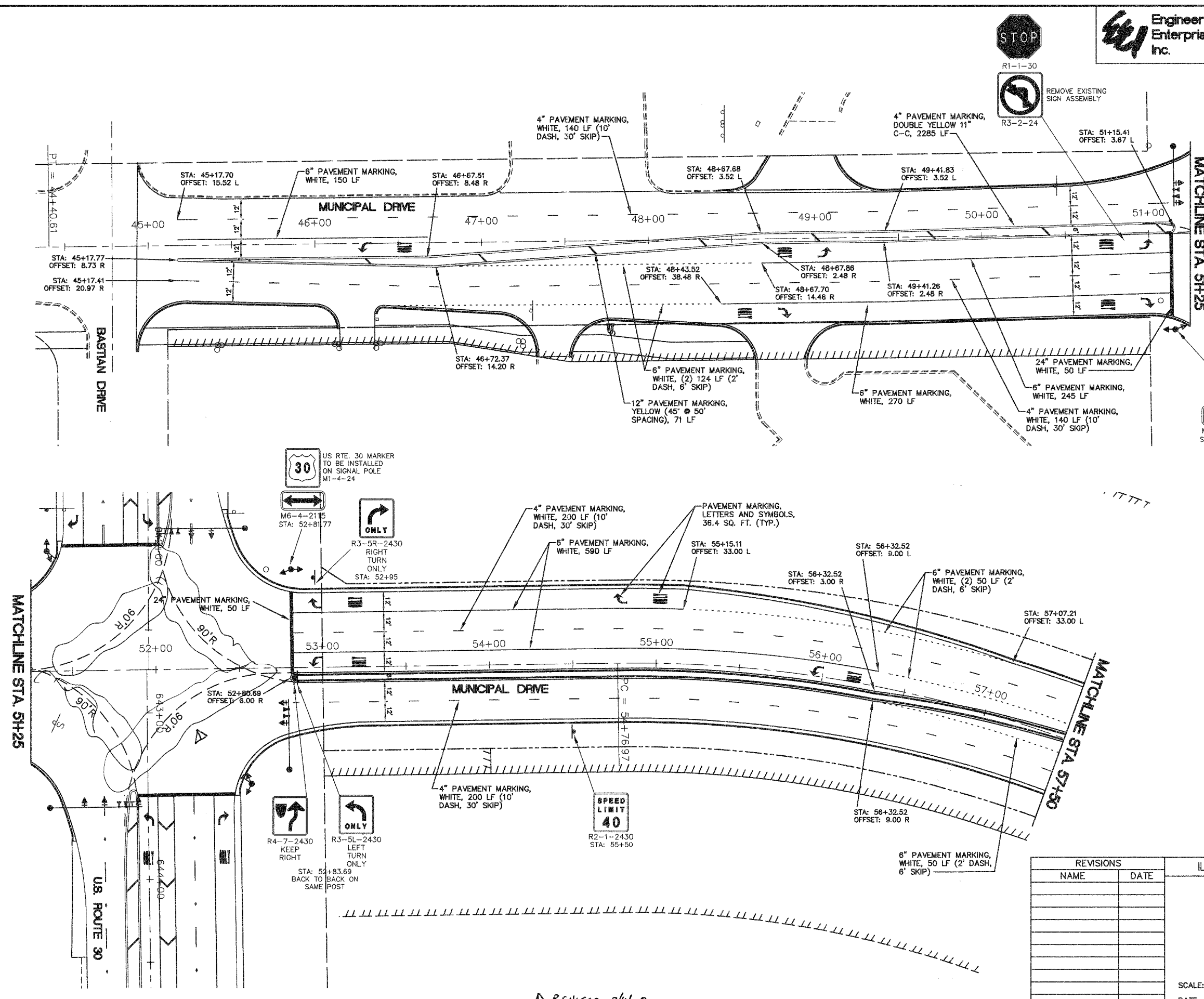


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| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
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| STA. 45+00          |                | TO STA. 57+50    |              |           |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

### STRIPING AND SIGNAGE PLAN MUNICIPAL DRIVE

SCALE: 1" = 30'  
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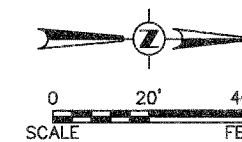






**Engineering Enterprises, Inc.**

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| F.A. RTE.             | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                   | D6-00017-00-PV | KANE     | 232              | 120       |
| STA. 292+00           | TO STA. 298+65 |          |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS | FED. AID PROJECT |           |



**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ⬇️ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ⬆️ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 60 FOOT (18.2m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊡ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ VIDEO VEHICLE SENSOR
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ CONFIRMATION BEACON
- ⊞ VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ⊞ HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- DOWN GUY
- ⊞ TEMPORARY TELEPHONE CONNECTION

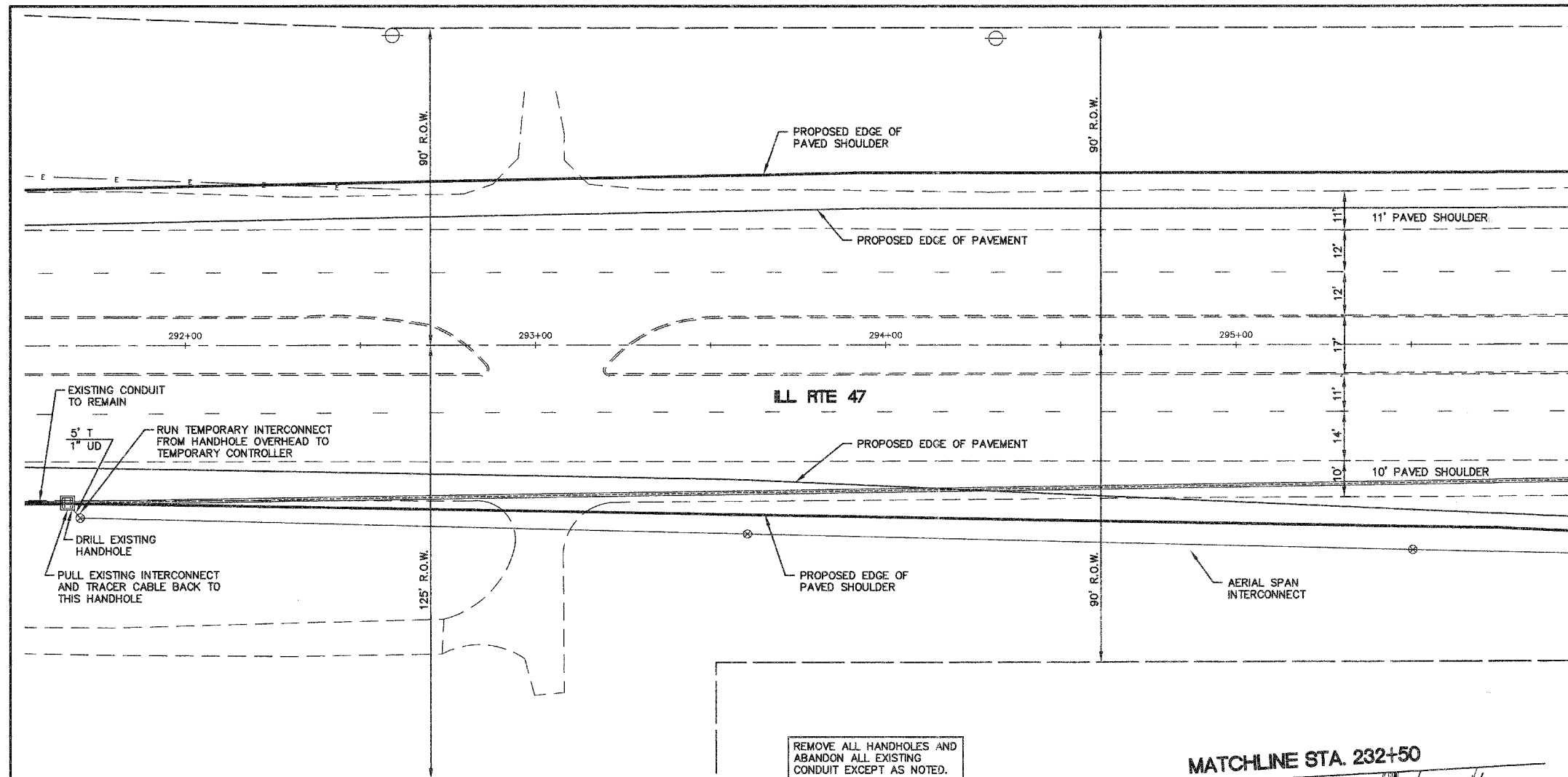
**EXISTING EQUIPMENT TO BE REMOVED LEGEND**

- ⊞ EXISTING SIGNAL HEAD TO BE REMOVED
- ⊞ EXISTING SERVICE INSTALLATION TO BE REMOVED
- ⊙ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- ⊞ EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- ⊞ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- ⊞ EXISTING HANDHOLE TO BE REMOVED
- ⊞ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- ⊞ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- ⊞ CONFIRMATION BEACON TO BE REMOVED
- ⊞ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- ⊞ EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

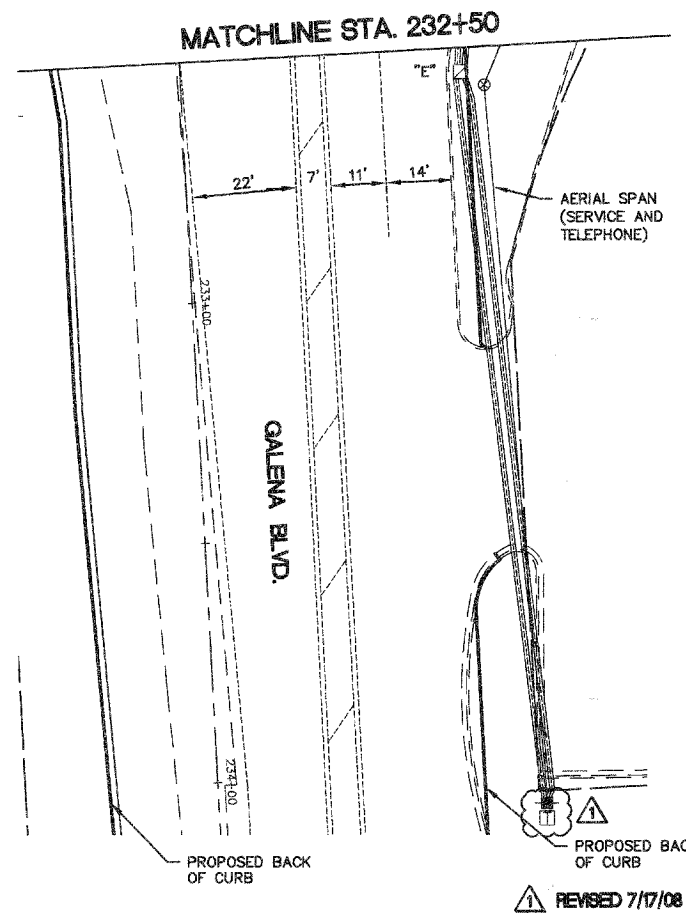
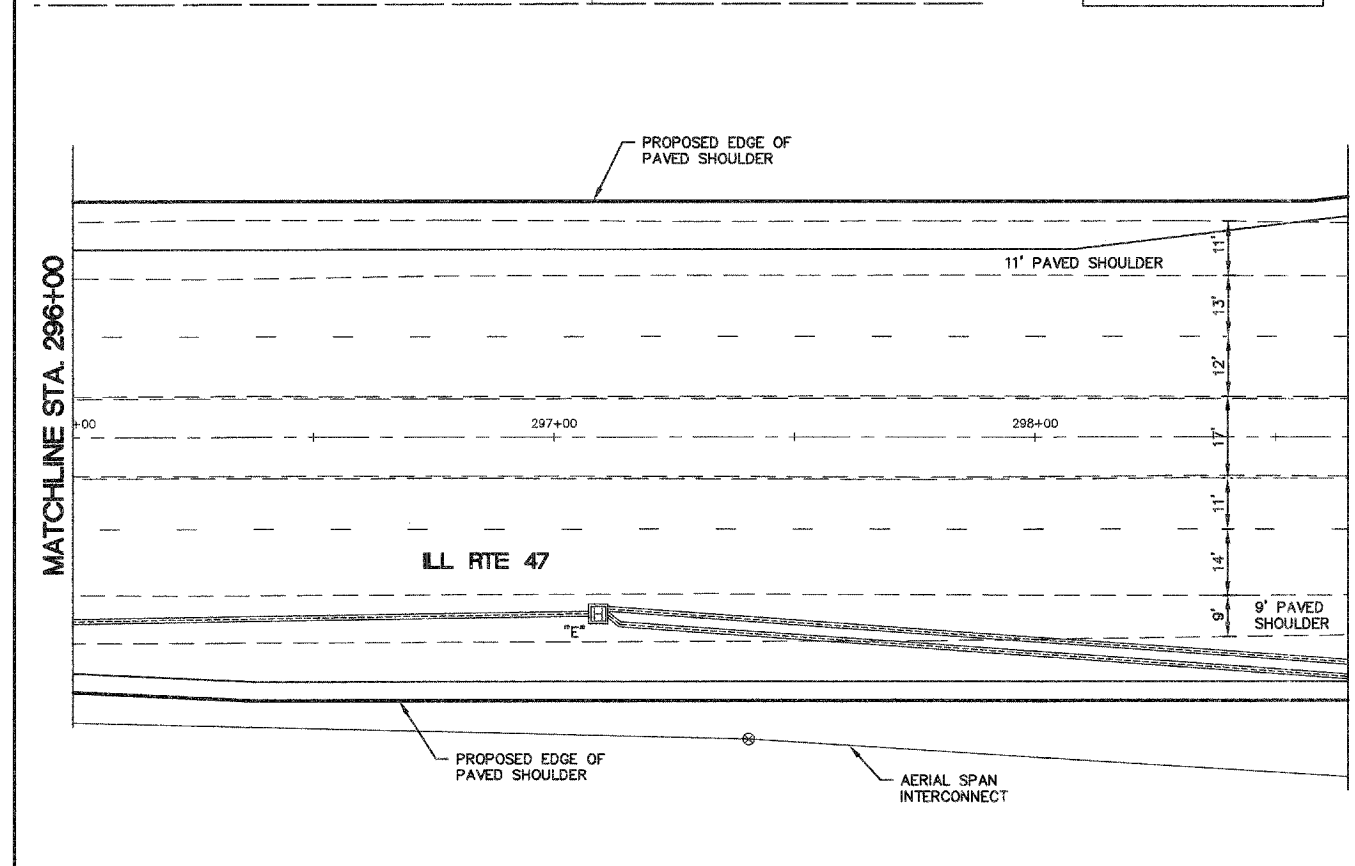
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| NOTE BOOK |  |
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Plotted: July 16, 2008 @ 10:57 AM By: Kris Pung - Tab: 120 TEMP SIGNAL (22x34)



MATCHLINE STA. 296+00



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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL AND REMOVAL PLAN (STAGE 1)**

SCALE: 1" = 20'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TWV

REVISED 7/17/08

PATH:\S05KPRCA\560546\DWG\560732.DWG FINAL ENG CONTRACT BY: 560546-TEMP-SIG



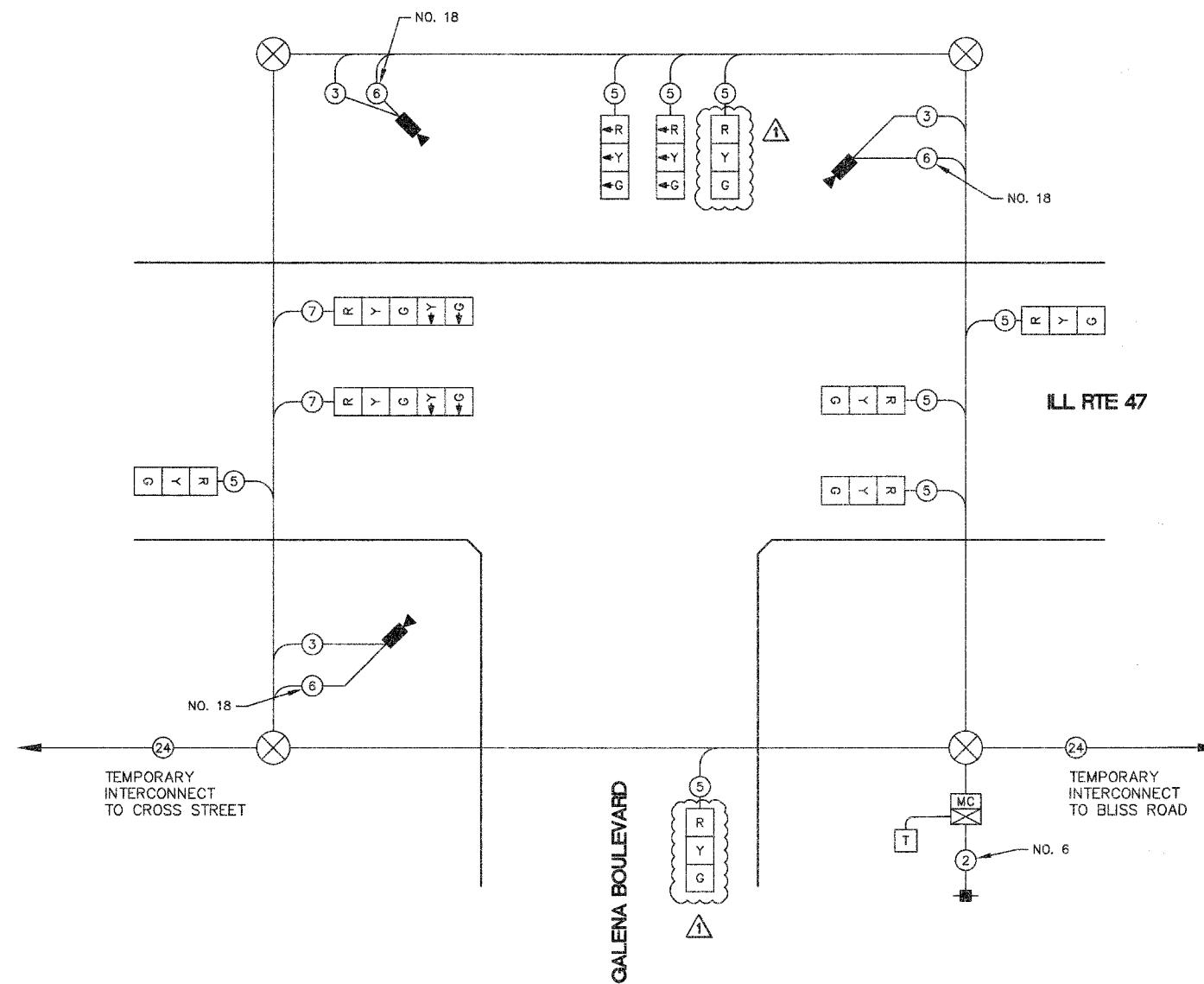
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| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE             | 232          | 121       |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |

**TEMPORARY CABLE PLAN**  
**STAGE 1**  
N.T.S.

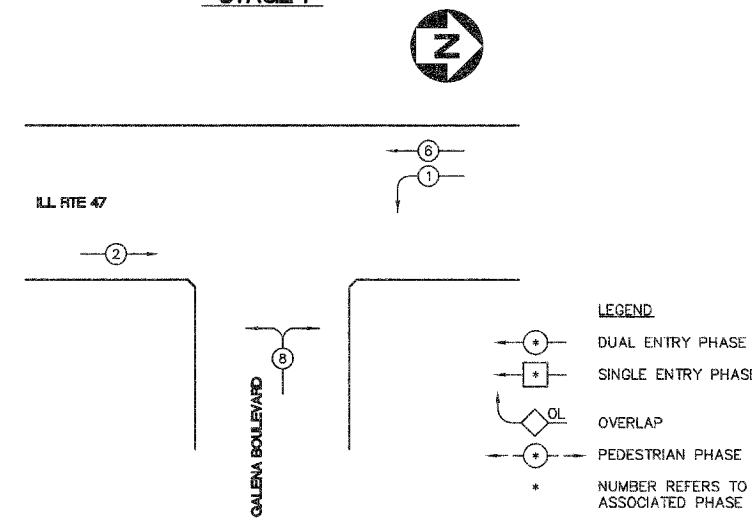


**TEMPORARY CABLE DIAGRAM LEGEND**

- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- [X] TEMPORARY CONTROLLER CABINET
- [MC] TEMPORARY MASTER CONTROLLER
- [+ ] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- (24) TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- [V] EMERGENCY VEHICLE DETECTOR
- [B] CONFIRMATION BEACON
- [ ] VEHICLE DETECTOR, INDUCTION LOOP
- [ ] PEDESTRIAN PUSHBUTTON DETECTOR
- [ ] 12" (300mm) PEDESTRIAN SIGNAL SECTION
- [V] VIDEO VEHICLE SENSOR
- [T] TELEPHONE CONNECTION



**TEMPORARY CONTROLLER SEQUENCE**  
**STAGE 1**



**TEMPORARY PHASE DESIGNATION DIAGRAM**

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION                                                                                                                     |                 |
|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| NAME      | DATE | <b>ILL RTE 47</b><br><b>AND</b><br><b>GALENA BOULEVARD</b><br><b>TEMPORARY SIGNAL CABLE PLAN,</b><br><b>PHASE DESIGNATION DIAGRAM</b><br><b>(STAGE 1)</b> |                 |
|           |      |                                                                                                                                                           |                 |
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|           |      | DATE: 05/16/08                                                                                                                                            | CHECKED BY: TVW |

REVISED 7/17/08

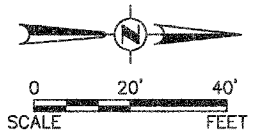
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| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                                   |              | TOTAL WATTAGE |
|----------------------------------------------------------------------|-----------|-----------------------------------|--------------|---------------|
| TYPE                                                                 | NO. LAMPS | WATTAGE                           | % OPERATIONS |               |
| SIGNAL (RED)                                                         | 10        | 17                                | 0.50         | 85.00         |
| (YELLOW)                                                             | 10        | 25                                | 0.25         | 62.50         |
| (GREEN)                                                              | 10        | 15                                | 0.25         | 37.50         |
| ARROW                                                                | 4         | 12                                | 0.10         | 4.80          |
| PED. SIGNAL                                                          | 1         | 25                                | 1.00         | -             |
| CONTROLLER                                                           | 1         | 100                               | 1.00         | 100.00        |
| ILLUM. SIGN                                                          | 1         | -                                 | 0.05         | -             |
| FLASHER                                                              |           |                                   | 0.50         | -             |
| TOTAL =                                                              |           |                                   |              | 289.80        |
| ENERGY COST -                                                        |           | BILLED TO: VILLAGE OF SUGAR GROVE |              |               |
|                                                                      |           | (ADDRESS) 10 MUNICIPAL DRIVE      |              |               |
|                                                                      |           | SUGAR GROVE, IL 60554             |              |               |
| ENERGY SUPPLY -                                                      |           | CONTACT: MARK SCHERIBEL           |              |               |
| PHONE:                                                               |           | 630-862-5160                      |              |               |
|                                                                      |           | COMPANY: COMED                    |              |               |

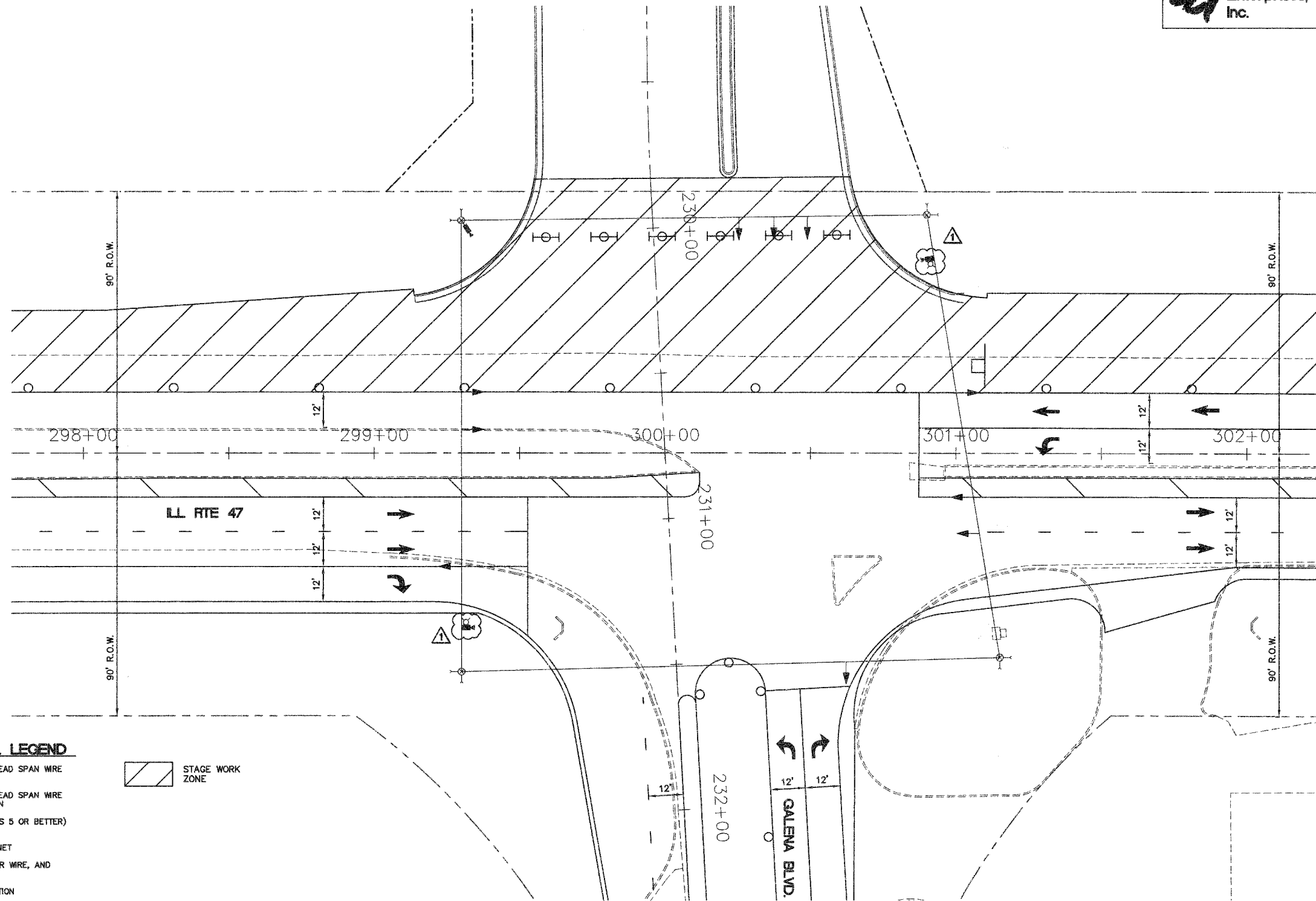


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| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE             | 232          | 122       |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |



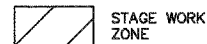
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**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↖ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ VIDEO VEHICLE SENSOR
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ⊞ HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- ⊞ DOWN GUY



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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 2)**

SCALE: 1" = 20'  
DATE: 02/07/08

DRAWN BY:  
CHECKED BY: TWV

REVISION 7/17/08



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| F.A. RTE.           | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                 | D6-00017-00-PV | KANE     | 232              | 123       |
| STA.                |                | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |                | ILLINOIS | FED. AID PROJECT |           |

TEMPORARY CABLE PLAN

STAGE 2

N.T.S.

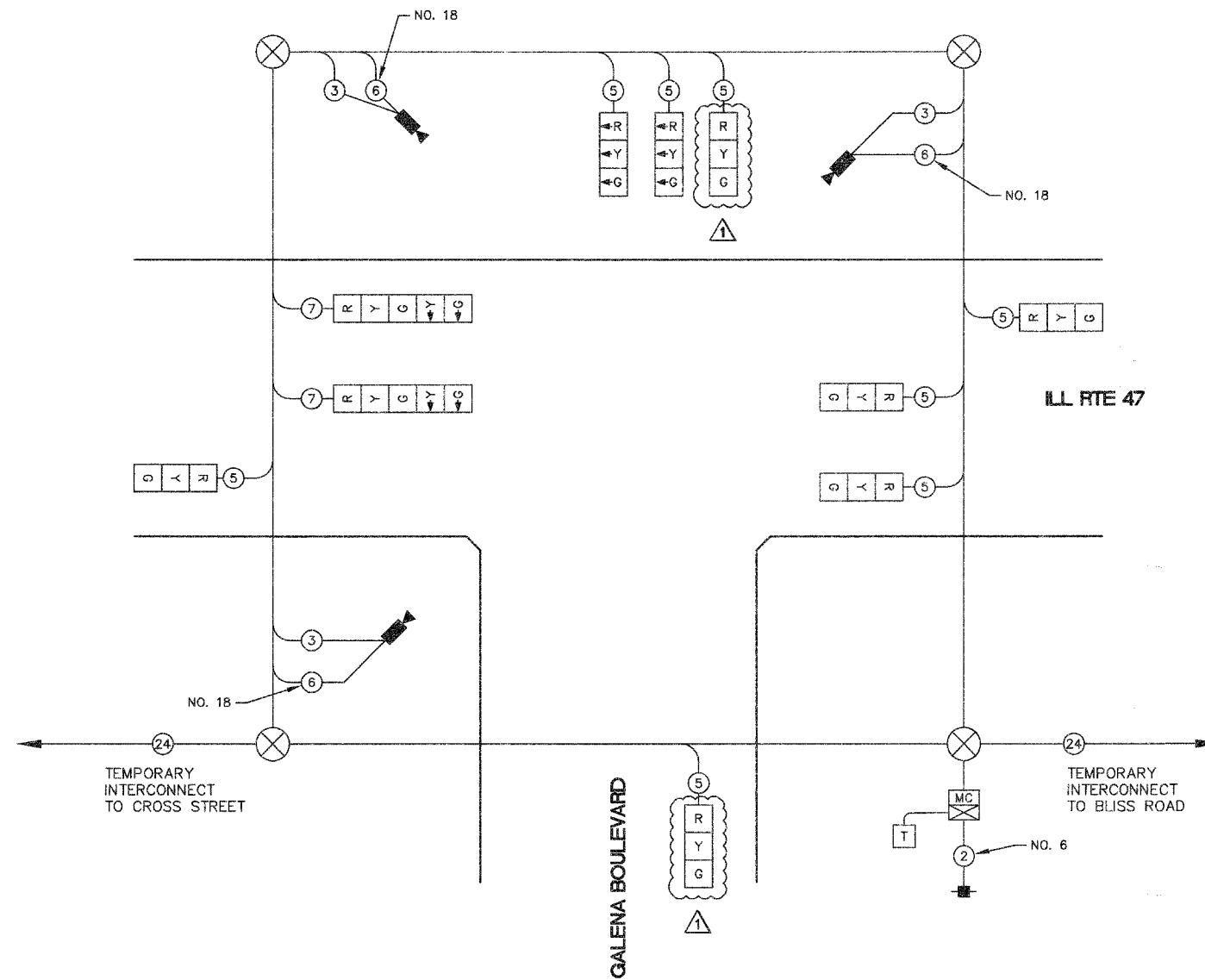


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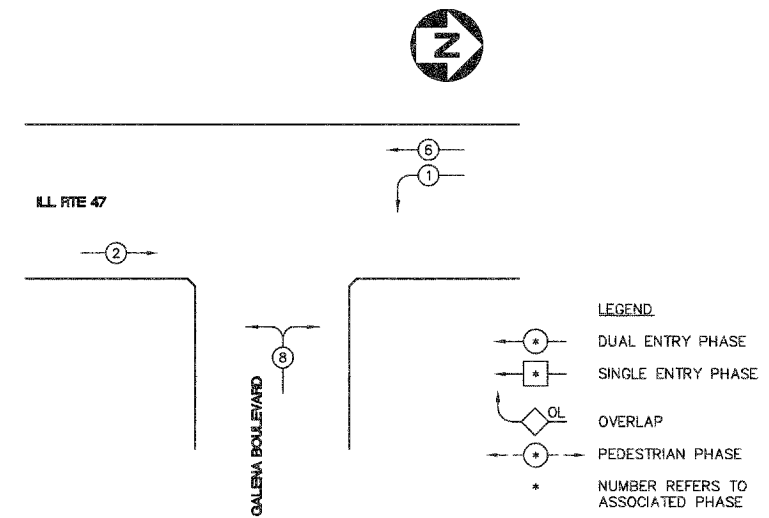
TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- MC TEMPORARY CONTROLLER CABINET
- MC TEMPORARY MASTER CONTROLLER
- T TEMPORARY SERVICE INSTALLATION
- ⊙ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ⊙<sub>24</sub> TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- EMERGENCY VEHICLE DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- T TELEPHONE CONNECTION



TEMPORARY CONTROLLER SEQUENCE

STAGE 2



- LEGEND
- DUAL ENTRY PHASE
  - SINGLE ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                 |      | TOTAL WATTAGE |
|----------------------------------------------------------------------|-----------|-----------------|------|---------------|
| TYPE                                                                 | NO. LAMPS | WATTAGE INCAND. | LED  | % OPERATIONS  |
| SIGNAL (RED)                                                         | 10        | 17              | 0.50 | 85.00         |
| (YELLOW)                                                             | 10        | 25              | 0.25 | 62.50         |
| (GREEN)                                                              | 10        | 15              | 0.25 | 37.50         |
| ARROW                                                                | 4         | 12              | 0.10 | 4.80          |
| PED. SIGNAL                                                          | 1         | 25              | 1.00 | -             |
| CONTROLLER                                                           | 1         | 100             | 1.00 | 100.00        |
| ILLUM. SIGN                                                          | 1         | -               | 0.05 | -             |
| FLASHER                                                              |           |                 | 0.50 | -             |
| TOTAL =                                                              |           |                 |      | 289.80        |

ENERGY COST -- BILLED TO: VILLAGE OF SUGAR GROVE (ADDRESS) 10 MUNICIPAL DRIVE SUGAR GROVE, IL 60554

ENERGY SUPPLY -- CONTACT: MARK SCHERIBEL 630-862-5160 COMPANY: COMED

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL RTE 47 AND GALENA BOULEVARD TEMPORARY SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM (STAGE 2)

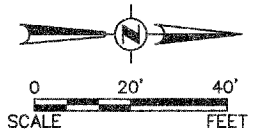
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DATE: 05/16/08      CHECKED BY: TWV

REVISION 7/17/08

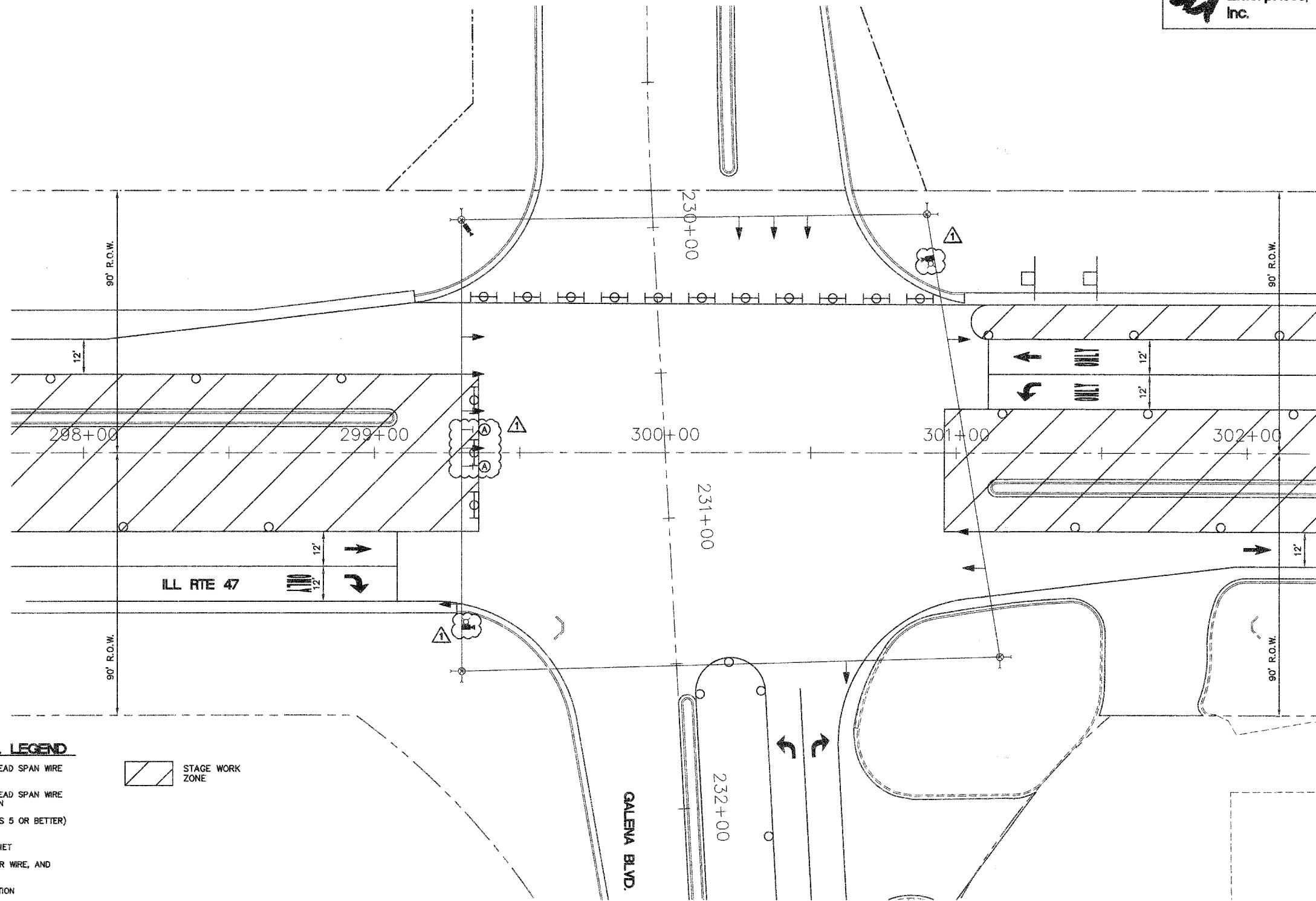


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| F.A. RTE.                                       | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| N/A                                             | 06-00017-00-PV | KANE   | 232          | 124       |
| STA.                                            | TO STA.        |        |              |           |
| FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT |                |        |              |           |



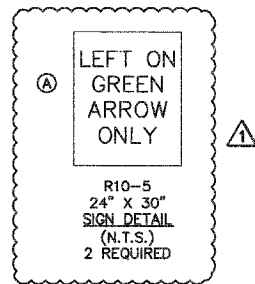
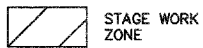
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| POSS. FILE NAME    |    |      |

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| GRADES CHECKED           |    |      |
| S.M. NOTED               |    |      |
| STRUCTURE NOTATIONS OK'D |    |      |



**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↖ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ VIDEO VEHICLE SENSOR
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ⊞ HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- T DOWN GUY



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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 3)**

SCALE: 1" = 20'  
DATE: 02/07/08

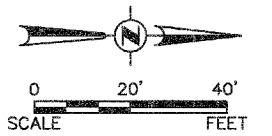
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REVISION 7/17/08



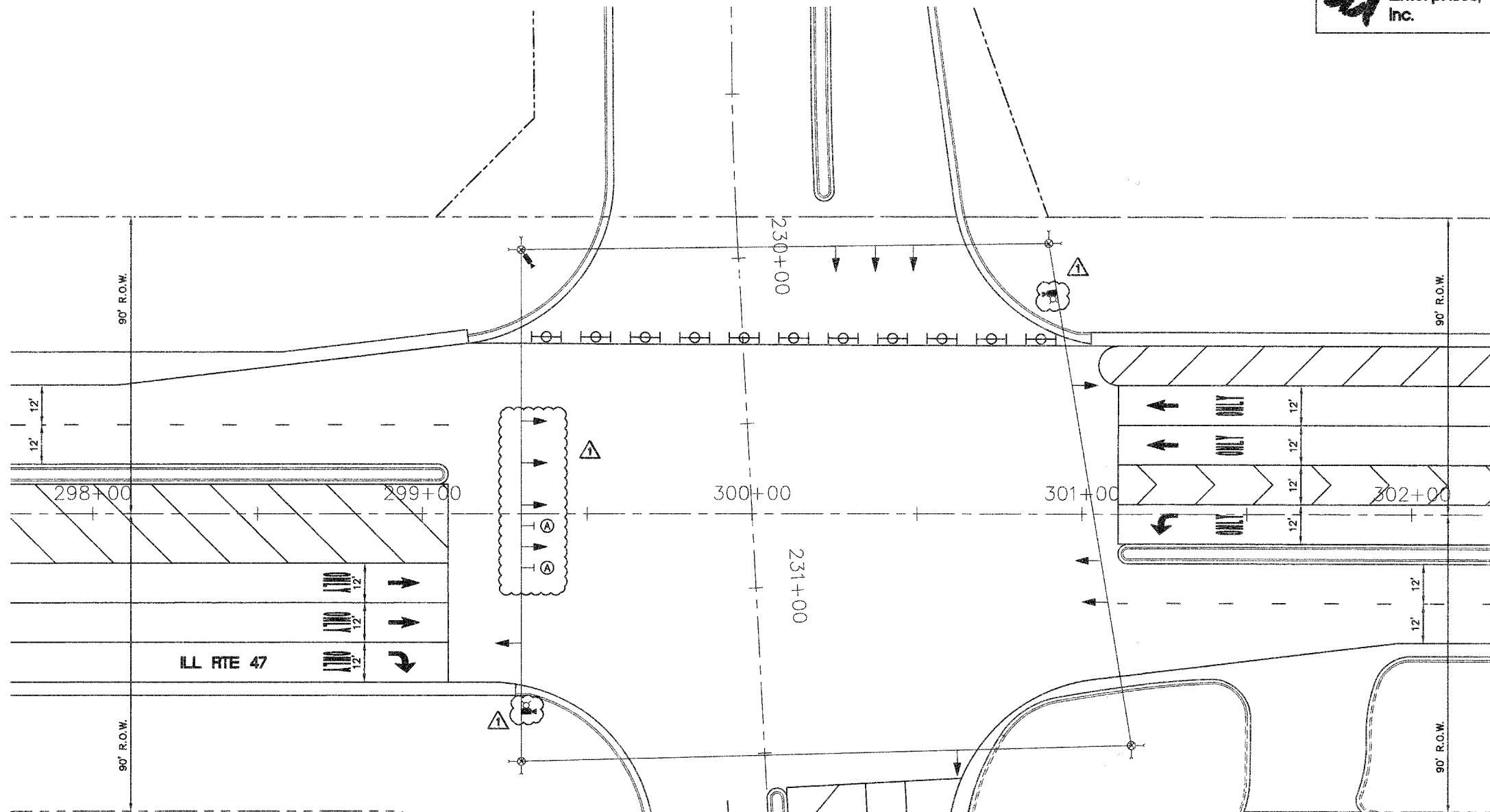


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| F.A. RTE.           | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE     | 232              | 126       |
| STA.                |                | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |                | ILLINOIS | FED. AID PROJECT |           |



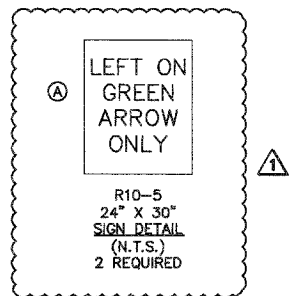
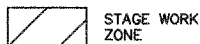
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**TEMPORARY TRAFFIC SIGNAL LEGEND**

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- VIDEO VEHICLE SENSOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH
- DOWN GUY



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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 4)**

SCALE: 1" = 20'  
DATE: 02/07/08

DRAWN BY:  
CHECKED BY: TWV





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|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE.             | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE                      | 232          | 127       |
| STA.                  |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. _ |                | ILLINOIS FED. AID PROJECT |              |           |

**TEMPORARY CABLE PLAN**

**STAGE 4**

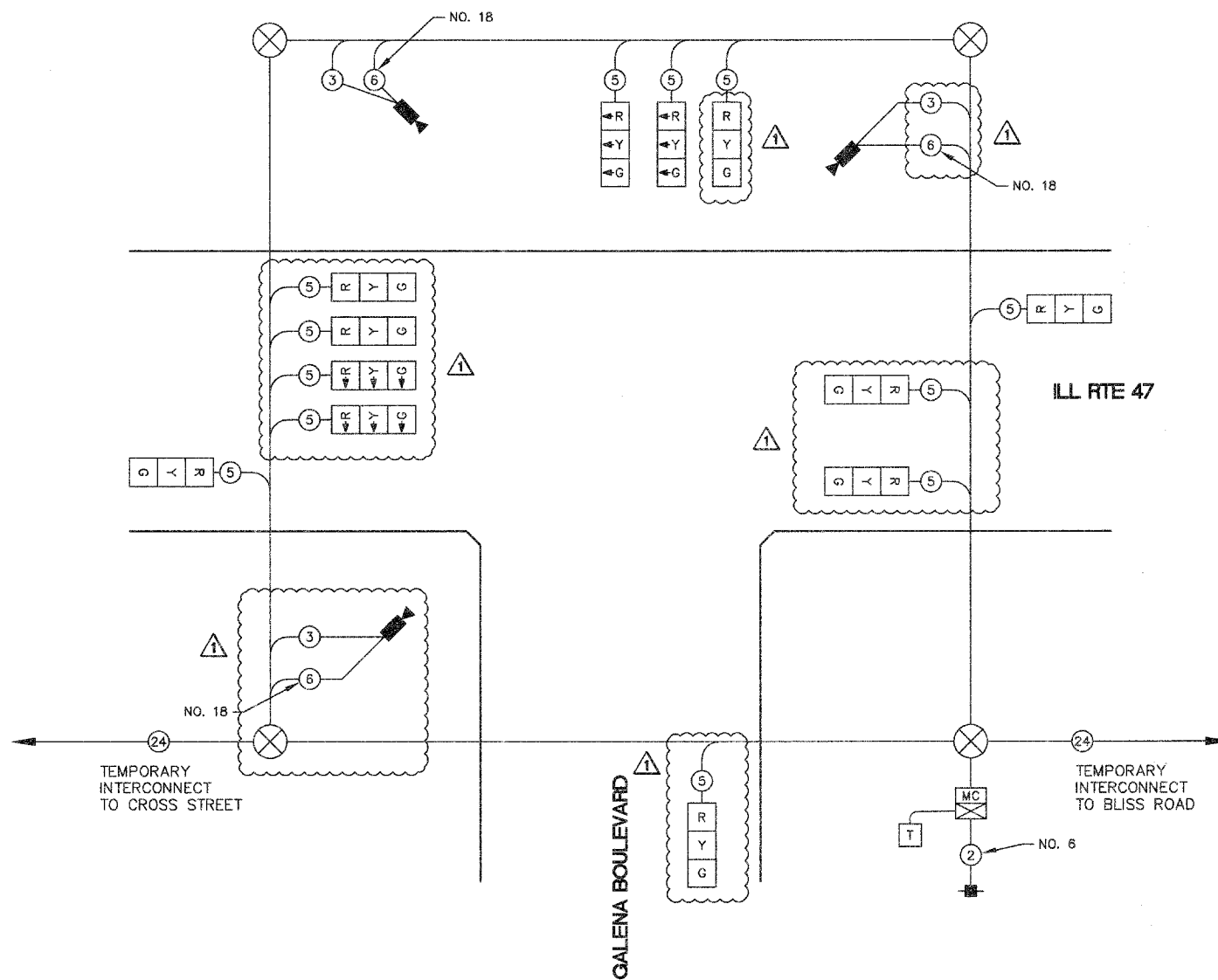
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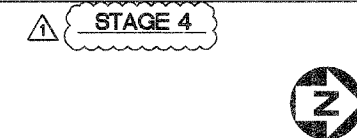
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**TEMPORARY CABLE DIAGRAM LEGEND**

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- X TEMPORARY CONTROLLER CABINET
- MC TEMPORARY MASTER CONTROLLER
- + TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ②④ TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- EMERGENCY VEHICLE DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- T TELEPHONE CONNECTION



**TEMPORARY CONTROLLER SEQUENCE**



ILL RTE 47

ILL RTE 47

GALENA BOULEVARD

- LEGEND**
- DUAL ENTRY PHASE
  - SINGLE ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY PHASE DESIGNATION DIAGRAM**

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                       |              | TOTAL WATTAGE |
|----------------------------------------------------------------------|-----------|-----------------------|--------------|---------------|
| TYPE                                                                 | NO. LAMPS | WATTAGE INCAND. / LED | % OPERATIONS |               |
| SIGNAL (RED)                                                         | 12        | 17                    | 0.50         | 102.00        |
| (YELLOW)                                                             | 12        | 23                    | 0.25         | 75.00         |
| (GREEN)                                                              | 12        | 15                    | 0.25         | 45.00         |
| ARROW                                                                | -         | 12                    | 0.10         | -             |
| PED. SIGNAL                                                          | -         | 25                    | 1.00         | -             |
| CONTROLLER                                                           | 1         | 100                   | 1.00         | 100.00        |
| ILLUM. SIGN                                                          | -         | -                     | 0.05         | -             |
| FLASHER                                                              | -         | -                     | 0.50         | -             |
| TOTAL =                                                              |           |                       |              | 322.00        |

ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
 (ADDRESS) 10 MUNICIPAL DRIVE  
 SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
 PHONE: 630-862-5160  
 COMPANY: COMED

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47  
AND  
GALENA BOULEVARD  
TEMPORARY SIGNAL CABLE PLAN,  
PHASE DESIGNATION DIAGRAM  
(STAGE 4)**

SCALE: NTS      DRAWN BY: KKP  
 DATE: 05/16/08      CHECKED BY: TWV

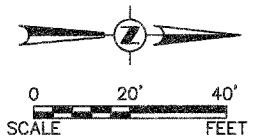
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|                       |                |                           |              |           |
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| F.A. R.T.E.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE                      | 232          | 128       |
| STA. 298+50           |                | TO STA. 303+50            |              |           |
| FED. ROAD DIST. NO. - |                | ILLINOIS FED. AID PROJECT |              |           |

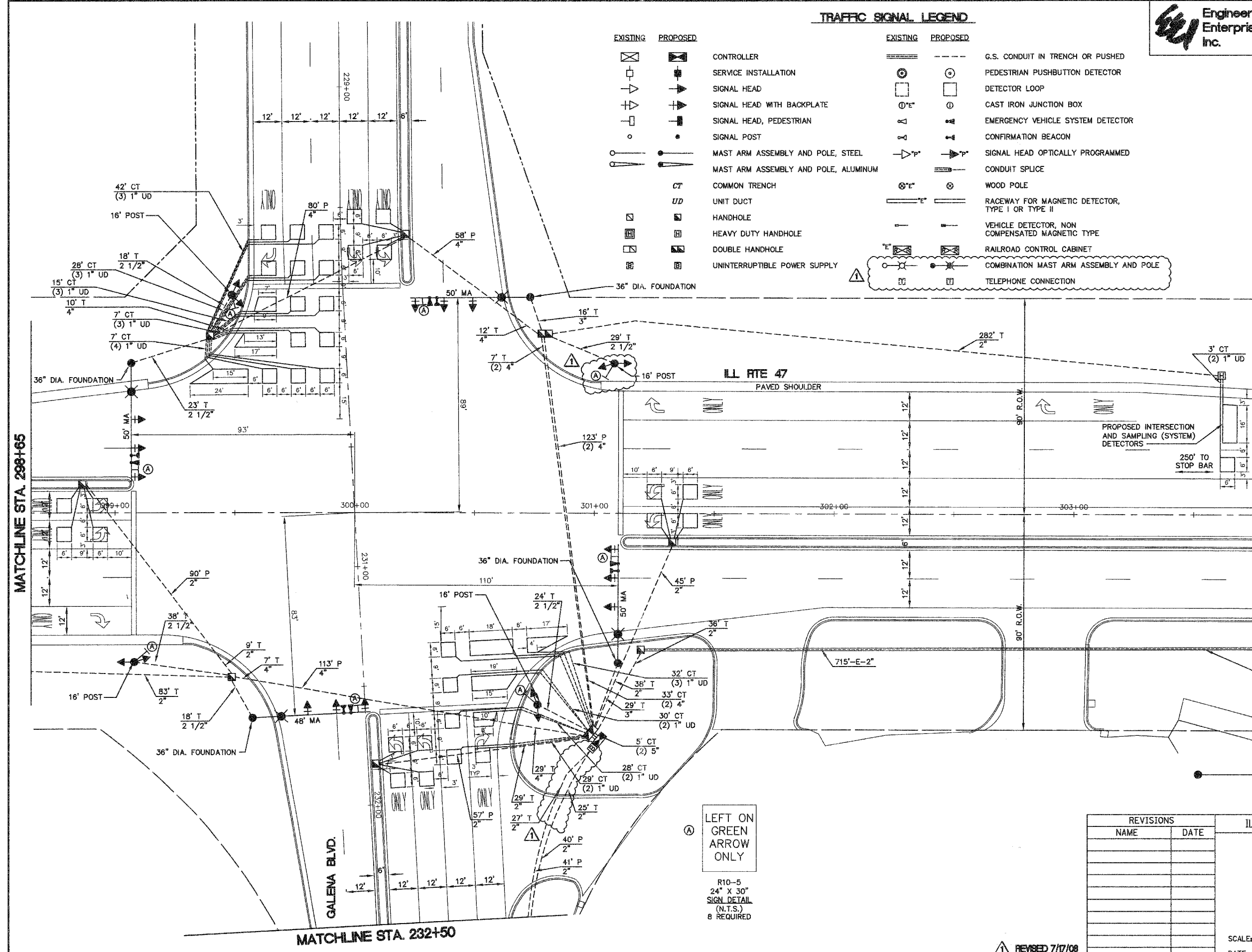
**TRAFFIC SIGNAL LEGEND**

| EXISTING | PROPOSED | EXISTING | PROPOSED | DESCRIPTION                                      |
|----------|----------|----------|----------|--------------------------------------------------|
|          |          |          |          | G.S. CONDUIT IN TRENCH OR PUSHED                 |
|          |          |          |          | PEDESTRIAN PUSHBUTTON DETECTOR                   |
|          |          |          |          | DETECTOR LOOP                                    |
|          |          |          |          | CAST IRON JUNCTION BOX                           |
|          |          |          |          | EMERGENCY VEHICLE SYSTEM DETECTOR                |
|          |          |          |          | CONFIRMATION BEACON                              |
|          |          |          |          | SIGNAL HEAD OPTICALLY PROGRAMMED                 |
|          |          |          |          | CONDUIT SPLICE                                   |
|          |          |          |          | WOOD POLE                                        |
|          |          |          |          | RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |
|          |          |          |          | VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE  |
|          |          |          |          | RAILROAD CONTROL CABINET                         |
|          |          |          |          | COMBINATION MAST ARM ASSEMBLY AND POLE           |
|          |          |          |          | TELEPHONE CONNECTION                             |



**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TRAFFIC SIGNAL MODERNIZATION PLAN**

SCALE: 1" = 20'  
 DATE: 05/16/08

DRAWN BY: KKP  
 CHECKED BY: TVW

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| PLAN          |  |
| NOTE BOOK NO. |  |
| FILE NO.      |  |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| PROFILE       |  |
| NOTE BOOK NO. |  |
| FILE NO.      |  |

REVISED 7/17/08

LEFT ON GREEN ARROW ONLY

R10-5  
 24" X 30"  
 SIGN DETAIL  
 (N.T.S.)  
 8 REQUIRED

MATCHLINE STA. 298+65

MATCHLINE STA. 232+50

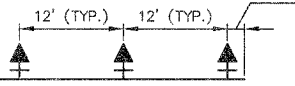
GALENA BLVD.

ILL. RTE 47  
 PAVED SHOULDER

715'-E-2"

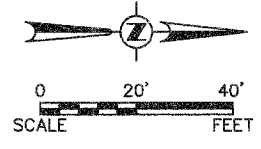
MAST ARM DETAIL (NTS)

INTERCONNECT TO BLISS RD./WHEELER RD.





|                       |                |                |                  |           |
|-----------------------|----------------|----------------|------------------|-----------|
| F.A. RTE.             | SECTION        | COUNTY         | TOTAL SHEETS     | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE           | 232              | 129       |
| STA. 292+00           |                | TO STA. 298+65 |                  |           |
| FED. ROAD DIST. NO. - |                | ILLINOIS       | FED. AID PROJECT |           |



TRAFFIC SIGNAL LEGEND

| EXISTING | PROPOSED |                                                  |
|----------|----------|--------------------------------------------------|
|          |          | CONTROLLER                                       |
|          |          | SERVICE INSTALLATION                             |
|          |          | SIGNAL HEAD                                      |
|          |          | SIGNAL HEAD WITH BACKPLATE                       |
|          |          | SIGNAL HEAD, PEDESTRIAN                          |
|          |          | SIGNAL POST                                      |
|          |          | MAST ARM ASSEMBLY AND POLE, STEEL                |
|          |          | MAST ARM ASSEMBLY AND POLE, ALUMINUM             |
|          |          | COMMON TRENCH                                    |
|          |          | UNIT DUCT                                        |
|          |          | HANDHOLE                                         |
|          |          | HEAVY DUTY HANDHOLE                              |
|          |          | DOUBLE HANDHOLE                                  |
|          |          | UNINTERRUPTIBLE POWER SUPPLY                     |
|          |          | G.S. CONDUIT IN TRENCH OR PUSHED                 |
|          |          | PEDESTRIAN PUSHBUTTON DETECTOR                   |
|          |          | DETECTOR LOOP                                    |
|          |          | CAST IRON JUNCTION BOX                           |
|          |          | EMERGENCY VEHICLE SYSTEM DETECTOR                |
|          |          | CONFIRMATION BEACON                              |
|          |          | SIGNAL HEAD OPTICALLY PROGRAMMED                 |
|          |          | CONDUIT SPLICE                                   |
|          |          | WOOD POLE                                        |
|          |          | RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |
|          |          | VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE  |
|          |          | RAILROAD CONTROL CABINET                         |
|          |          | COMBINATION MAST ARM ASSEMBLY AND POLE           |
|          |          | TELEPHONE CONNECTION                             |

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

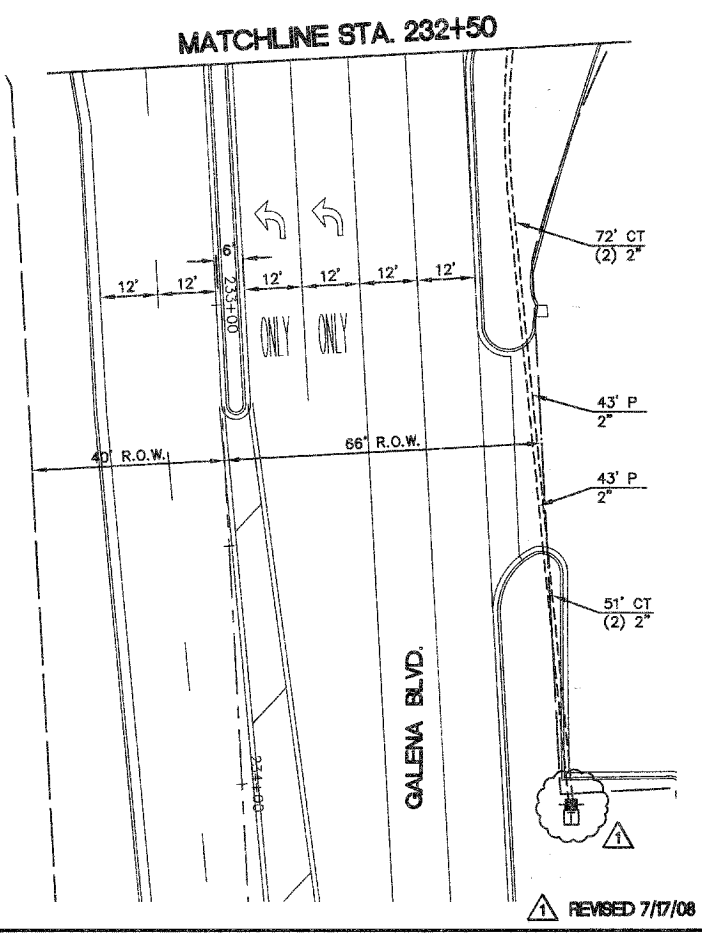
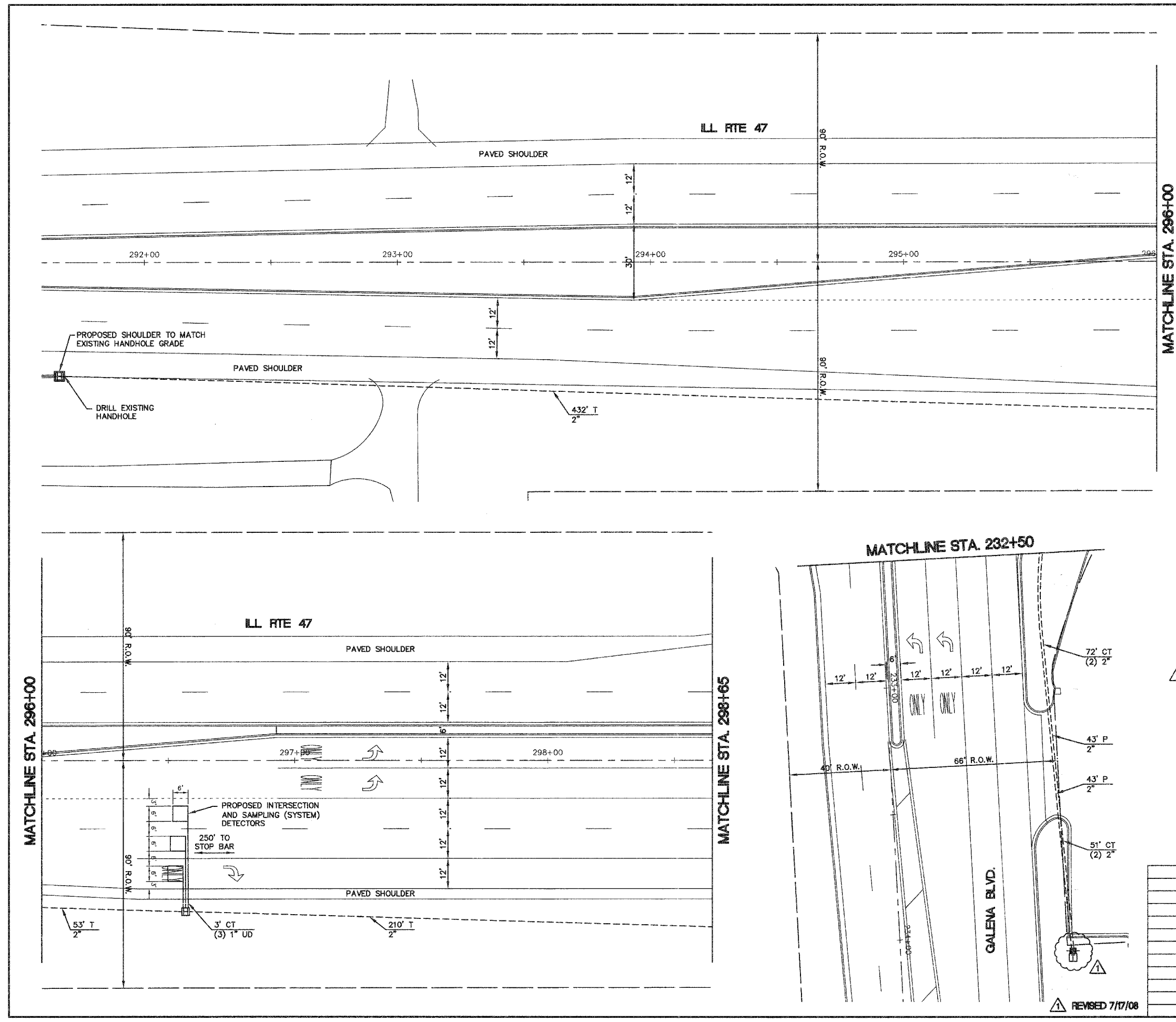
ILL RTE 47  
AND  
GALENA BOULEVARD  
TRAFFIC SIGNAL  
MODERNIZATION PLAN

SCALE: 1" = 20'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

|               |          |      |
|---------------|----------|------|
| PLAN          | SURVEYED | DATE |
| NOTE BOOK NO. | BY       |      |
| NO.           |          |      |

|               |          |      |
|---------------|----------|------|
| PROFILE       | SURVEYED | DATE |
| NOTE BOOK NO. | BY       |      |
| NO.           |          |      |



REVISED 7/17/08



|                     |                |                  |              |           |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE             | 232          | 130       |
| STA.                | TO STA.        |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS       | FED. AID PROJECT |              |           |

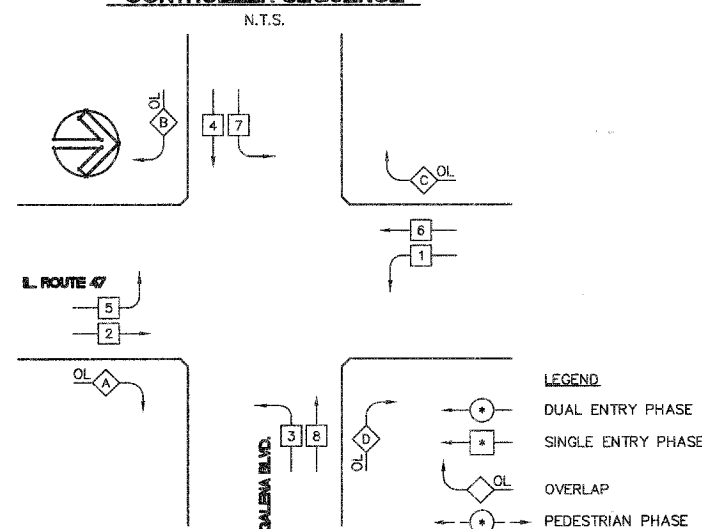
**SCHEDULE OF QUANTITIES**

| QUANTITY | UNIT  | ITEM DESCRIPTION                                                    |
|----------|-------|---------------------------------------------------------------------|
| 75       | SQ FT | SIGN PANEL - TYPE 1                                                 |
| 1        | EACH  | SERVICE INSTALLATION - POLE MOUNTED                                 |
| 1470     | FOOT  | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL                        |
| 150      | FOOT  | CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL                    |
| 45       | FOOT  | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL                        |
| 22       | FOOT  | CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL                        |
| 10       | FOOT  | CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL                        |
| 359      | FOOT  | CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL                           |
| 497      | FOOT  | CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL                           |
| 7        | EACH  | HANDHOLE                                                            |
| 2        | EACH  | HEAVY-DUTY HANDHOLE                                                 |
| 2        | EACH  | DOUBLE HANDHOLE                                                     |
| 1869     | FOOT  | TRENCH AND BACKFILL FOR ELECTRICAL WORK                             |
| 1        | EACH  | FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL                |
| 1286     | FOOT  | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C                      |
| 1116     | FOOT  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                         |
| 3159     | FOOT  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                         |
| 2044     | FOOT  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                         |
| 4186     | FOOT  | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                   |
| 239      | FOOT  | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C                        |
| 1116     | FOOT  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED     |
| 4        | EACH  | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                        |
| 1        | EACH  | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.                 |
| 3        | EACH  | STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.                 |
| 16       | FOOT  | CONCRETE FOUNDATION, TYPE A                                         |
| 4        | FOOT  | CONCRETE FOUNDATION, TYPE C                                         |
| 60       | FOOT  | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                        |
| 1        | EACH  | DRILL EXISTING HANDHOLE                                             |
| 8        | EACH  | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               |
| 4        | EACH  | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED               |
| 4        | EACH  | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 12       | EACH  | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        |
| 18       | EACH  | INDUCTIVE LOOP DETECTOR                                             |
| 2053     | FOOT  | DETECTOR LOOP, TYPE 1                                               |
| 4        | EACH  | LIGHT DETECTOR                                                      |
| 2        | EACH  | LIGHT DETECTOR AMPLIFIER                                            |
| 1        | EACH  | TEMPORARY TRAFFIC SIGNAL INSTALLATION                               |
| 1        | EACH  | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            |
| 7        | EACH  | REMOVE EXISTING HANDHOLE                                            |
| 7        | EACH  | REMOVE EXISTING CONCRETE FOUNDATION                                 |
| 1        | EACH  | TEMPORARY TRAFFIC SIGNAL TIMING                                     |
| 1        | EACH  | UNINTERRUPTIBLE POWER SUPPLY                                        |
| 1        | EACH  | TRANSCEIVER, FIBER OPTIC                                            |
| 2        | EACH  | RELOCATE EXISTING MASTER CONTROLLER                                 |

**CABLE PLAN LEGEND**

| EXISTING                                                                                                          | PROPOSED | DESCRIPTION                                                       |
|-------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------|
|                                                                                                                   |          | 8" (200mm) TRAFFIC SIGNAL SECTION                                 |
|                                                                                                                   |          | 12" (300mm) TRAFFIC SIGNAL SECTION                                |
|                                                                                                                   |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION                             |
|                                                                                                                   |          | CONTROLLER CABINET                                                |
|                                                                                                                   |          | SERVICE INSTALLATION                                              |
|                                                                                                                   |          | TELEPHONE CONNECTION                                              |
|                                                                                                                   |          | MAGNETIC DETECTOR                                                 |
|                                                                                                                   |          | EMERGENCY VEHICLE LIGHT DETECTOR                                  |
|                                                                                                                   |          | CONFIRMATION BEACON                                               |
|                                                                                                                   |          | PUSHBUTTON DETECTOR                                               |
|                                                                                                                   |          | VEHICLE DETECTOR, INDUCTION LOOP                                  |
| DENOTES NUMBER OF CONDUCTORS.<br>ALL CABLE NO. 14 EXCEPT AS INDICATED.<br>ALL LOOP DETECTOR CABLE TO BE SHIELDED. |          |                                                                   |
|                                                                                                                   |          | SIGNAL FACE WITH BACKPLATE                                        |
|                                                                                                                   |          | "P" INDICATES PROGRAMMED HEAD                                     |
|                                                                                                                   |          | RAILROAD CONTROL CABINET                                          |
|                                                                                                                   |          | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"                      |
|                                                                                                                   |          | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"                     |
|                                                                                                                   |          | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C) |
|                                                                                                                   |          | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)                      |
|                                                                                                                   |          | GROUND ROD AT ELECTRIC SERVICE INSTALLATION                       |
|                                                                                                                   |          | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)               |
|                                                                                                                   |          | NO.6.25/125 MM 12F & SM 12F, FIBER OPTIC CABLE                    |
|                                                                                                                   |          | NO.6.25/125 MM 24F & SM 12F, FIBER OPTIC CABLE                    |
|                                                                                                                   |          | UNINTERRUPTIBLE POWER SUPPLY                                      |

**CONTROLLER SEQUENCE**

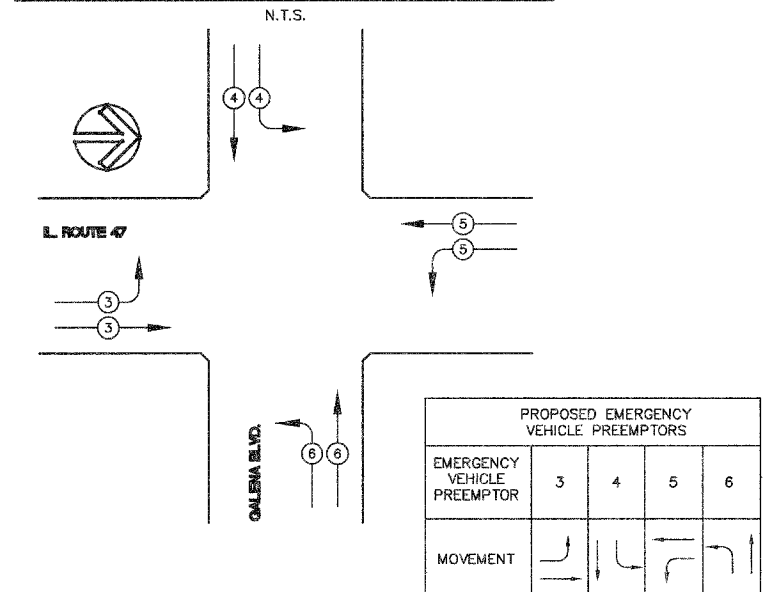


**PHASE DESIGNATION DIAGRAM**

| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | 2                | 3               |
| B              | 4                | 5               |
| C              | 6                | 7               |
| D              | 8                | 1               |

REVISOR: 7/17/08

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



| PROPOSED EMERGENCY VEHICLE PREEMPTORS |   |   |   |   |
|---------------------------------------|---|---|---|---|
| EMERGENCY VEHICLE PREEMPTOR           | 3 | 4 | 5 | 6 |
| MOVEMENT                              |   |   |   |   |

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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

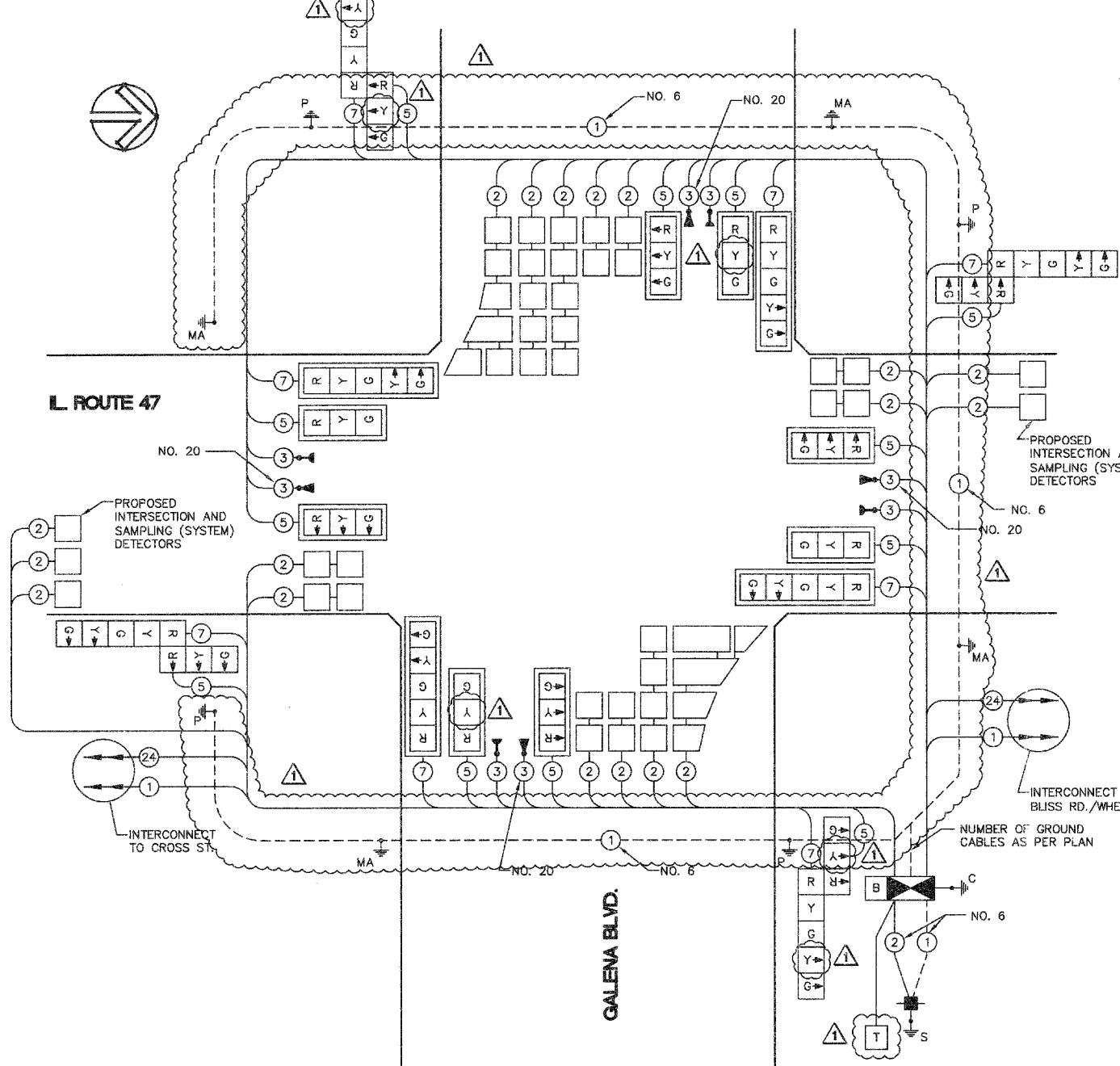
**ILL RTE 47 AND GALENA BOULEVARD CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES**

SCALE: NTS  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

**CABLE PLAN**

N.T.S.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE         | NO. LAMPS | WATTAGE INCAND. | LED  | % OPERATIONS | TOTAL WATTAGE |
|--------------|-----------|-----------------|------|--------------|---------------|
| SIGNAL (RED) | 20        | 17              | 0.50 | 170          |               |
| (YELLOW)     | 20        | 25              | 0.25 | 125          |               |
| (GREEN)      | 20        | 15              | 0.10 | 75           |               |
| ARROW        | 16        | 12              | 0.10 | 19.2         |               |
| CONTROLLER   | 1         | 100             | 1.00 | 100          |               |
| ILLUM. SIGN  | -         | -               | 0.05 | -            |               |
| FLASHER      | -         | -               | 0.50 | -            |               |
| TOTAL =      |           |                 |      | 489.2        |               |

ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
(ADDRESS) 10 MUNICIPAL DRIVE  
SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
PHONE: 630-862-5160  
COMPANY: COMED

| FOUNDATION (DEPTH) | FT. (m)  | CABLE SLACK      | FT. (m)   | VERTICAL          | FT. (m)    |
|--------------------|----------|------------------|-----------|-------------------|------------|
| TYPE A - POST      | 4 (1.2)  | HANDHOLE         | 6.5 (2.0) | ALL FOUNDATIONS   | 3.5 (1.1)  |
| D - CONTROLLER     | 4 (1.2)  | DOUBLE HANDHOLE  | 13 (4.0)  | MAST ARM (L) POLE | 20'+L-2 =  |
| E - M ARM POLE     | 2 (1.0)  | SIGNAL POST      | 2 (1.0)   | (6.1+L-1.0) =     |            |
| 36" (900mm)        | 15 (4.6) | CONTROLLER CAB.  | 1 (0.5)   | BRACKET MOUNTED   | 13 (4.0)   |
|                    |          | FIBER OPTIC      | 13 (4.0)  | PED. PUSHBUTTON   | 4 (1.2)    |
|                    |          | ELECTRIC SERVICE | 1 (0.5)   | ELECTRIC SERVICE  | 13.5 (4.1) |
|                    |          | GROUND CABLE     | 1 (0.5)   | SERVICE TO GROUND | 13.5 (4.1) |
|                    |          |                  |           | POST MOUNTED      | 6 (1.8)    |

PLAN

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NO. 101

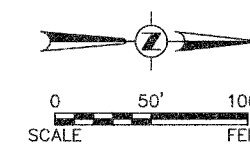
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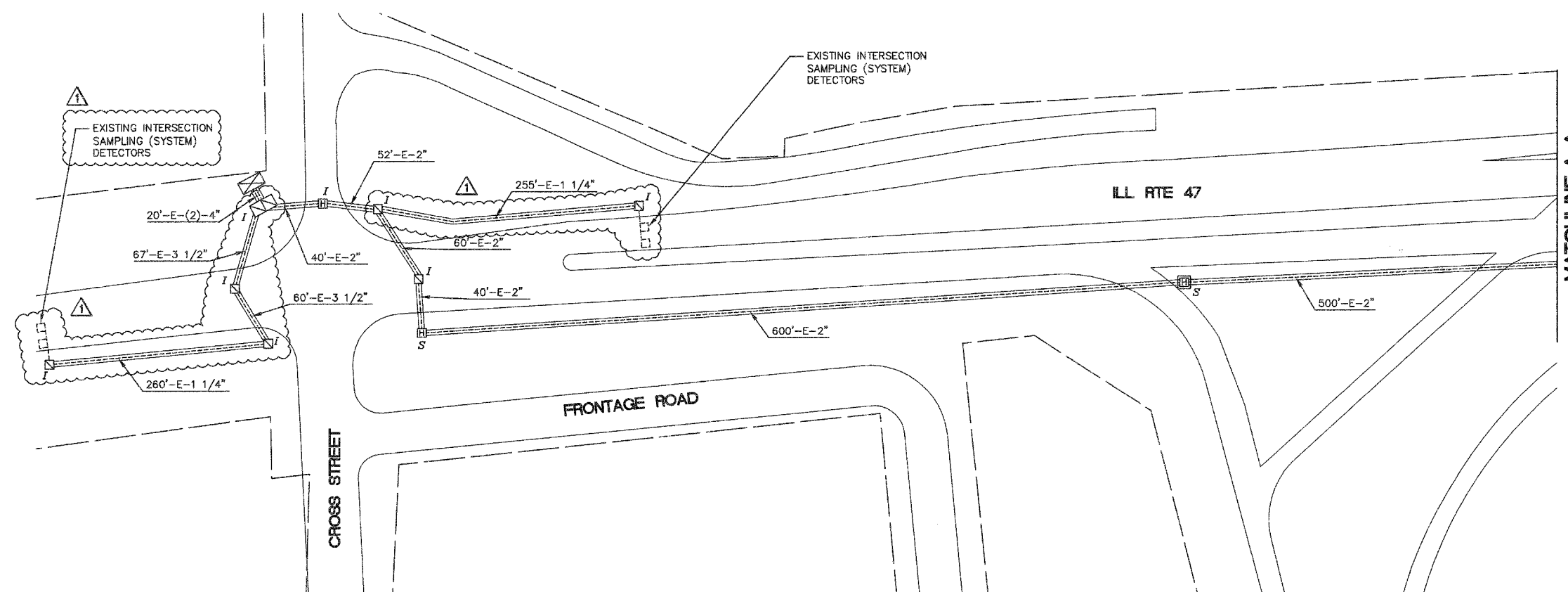
NO. 102

**Engineering Enterprises, Inc.**

|                     |                           |        |              |           |
|---------------------|---------------------------|--------|--------------|-----------|
| F.A. RTE.           | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV            | KANE   | 232          | 131       |
| STA.                | TO STA.                   |        |              |           |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |        |              |           |



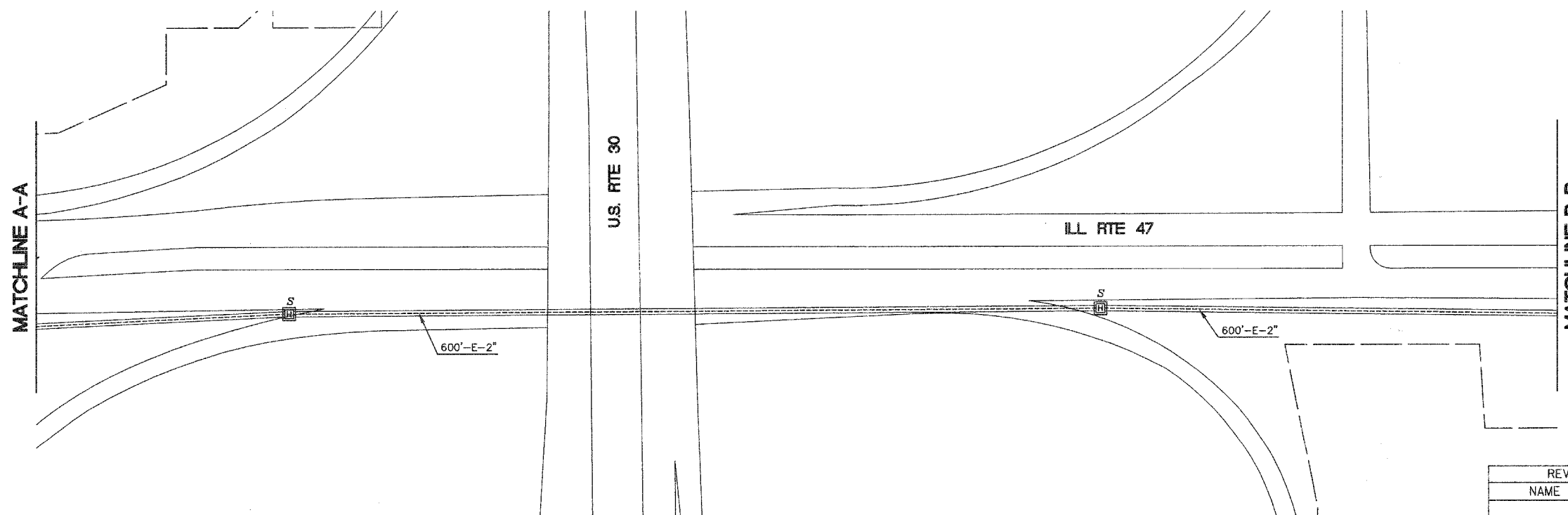
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| PLAN | SURVEYED           | BY | DATE |
|      | PLOTTED            |    |      |
|      | NOTED              |    |      |
|      | REVISIONS          |    |      |
|      | NO. OF WAY CHECKED |    |      |
|      | ROAD FILE NAME     |    |      |
|      | NO.                |    |      |



**INTERCONNECT PLAN LEGEND**

| EXISTING | PROPOSED |                                                                 |
|----------|----------|-----------------------------------------------------------------|
|          |          | CONTROLLER                                                      |
|          |          | HANDHOLE                                                        |
|          |          | DOUBLE HANDHOLE                                                 |
|          |          | HEAVY-DUTY HANDHOLE                                             |
|          |          | G.S. CONDUIT IN TRENCH OR PUSHED                                |
|          |          | DETECTOR LOOP                                                   |
|          |          | COMMON TRENCH                                                   |
|          |          | UNIT DUCT                                                       |
|          |          | SYSTEM                                                          |
|          |          | INTERSECTION                                                    |
|          |          | TELEPHONE                                                       |
|          |          | TEMPORARY WOOD POLE (GLASS 5 OR BETTER)<br>45 FOOT (13.7m MIN.) |

|         |                          |    |      |
|---------|--------------------------|----|------|
| PROFILE | SURVEYED                 | BY | DATE |
|         | PLOTTED                  |    |      |
|         | NOTED                    |    |      |
|         | REVISIONS                |    |      |
|         | NO. OF WAY CHECKED       |    |      |
|         | STRUCTURE NOTATIONS CHRD |    |      |
|         | NO.                      |    |      |



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISED 7/17/08

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

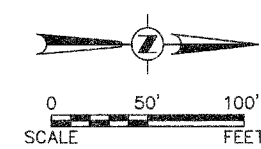
**INTERCONNECT PLAN**  
**ILL. RTE 47 FROM**  
**△ CROSS STREET TO**  
**BLISS RD./WHEELER RD.**  
**(1 OF 3)**

SCALE: 1" = 50'  
 DATE: 05/16/08

DRAWN BY: KKP  
 CHECKED BY: TVW

**Engineering Enterprises, Inc.**

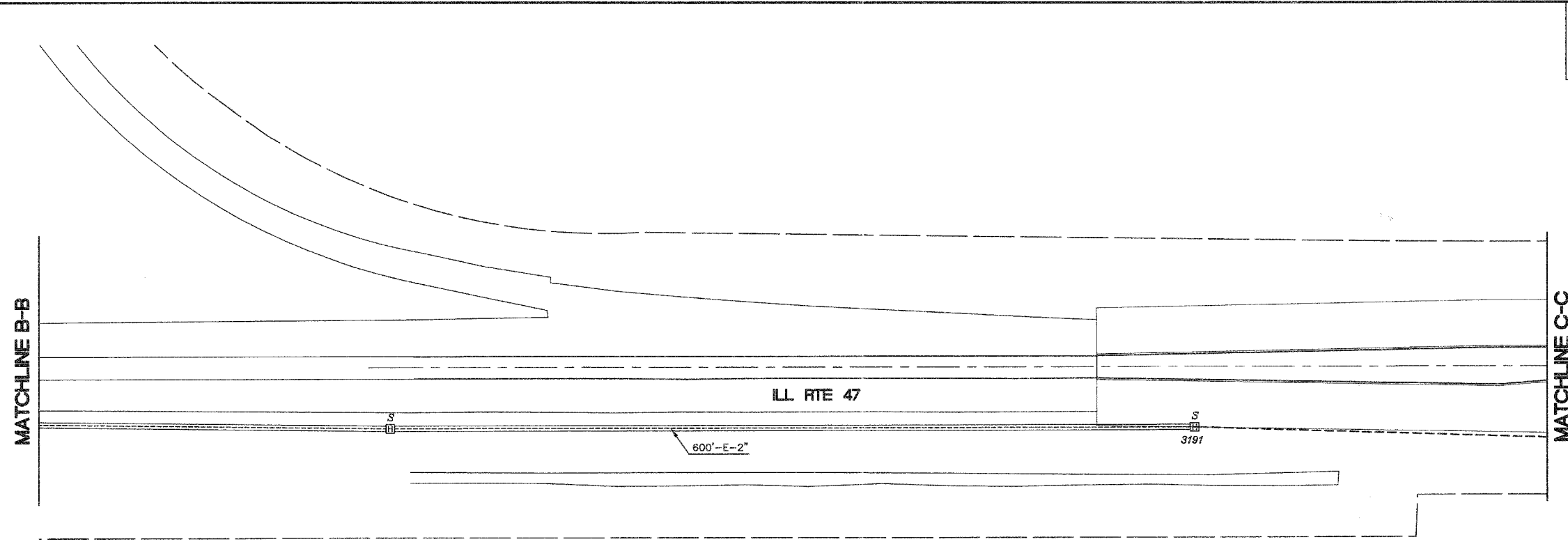
|                     |                |          |                  |           |
|---------------------|----------------|----------|------------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE     | 232              | 132       |
| STA.                |                | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |                | ILLINOIS | FED. AID PROJECT |           |



|               |          |      |
|---------------|----------|------|
| PLAN          | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED  | BY   |
| NO.           | CHECKED  |      |
|               | ALIGNED  |      |
|               | AS BUILT |      |
|               | FILED    |      |
|               | DATE     |      |

MATCHLINE B-B

MATCHLINE C-C



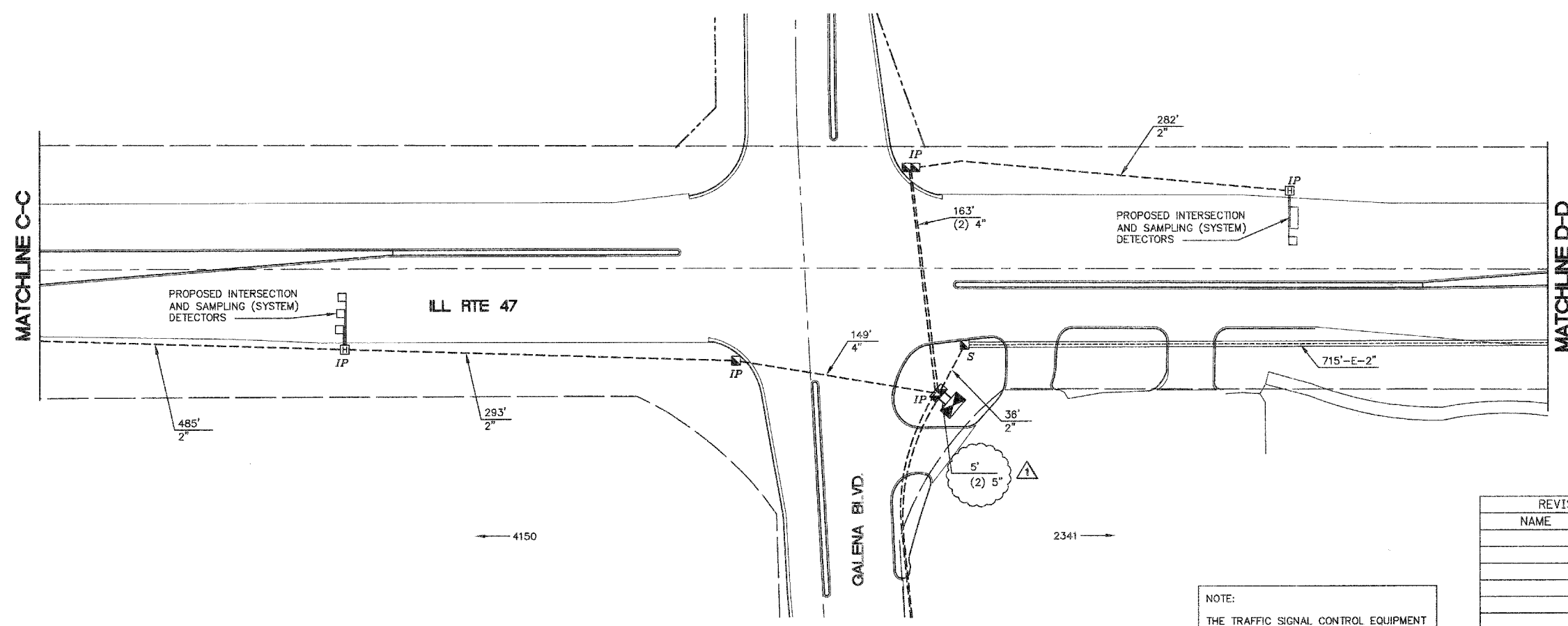
**INTERCONNECT PLAN LEGEND**

- | EXISTING | PROPOSED |                                                                 |
|----------|----------|-----------------------------------------------------------------|
|          |          | CONTROLLER                                                      |
|          |          | HANDHOLE                                                        |
|          |          | DOUBLE HANDHOLE                                                 |
|          |          | HEAVY-DUTY HANDHOLE                                             |
|          |          | G.S. CONDUIT IN TRENCH OR PUSHED                                |
|          |          | DETECTOR LOOP                                                   |
|          |          | COMMON TRENCH                                                   |
|          |          | UNIT DUCT                                                       |
|          |          | SYSTEM                                                          |
|          |          | INTERSECTION                                                    |
|          |          | TELEPHONE                                                       |
|          |          | TEMPORARY WOOD POLE (CLASS 5 OR BETTER)<br>45 FOOT (13.7m MIN.) |

|               |          |      |
|---------------|----------|------|
| PROFILE       | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED  | BY   |
| NO.           | CHECKED  |      |
|               | ALIGNED  |      |
|               | AS BUILT |      |
|               | FILED    |      |
|               | DATE     |      |

MATCHLINE C-C

MATCHLINE D-D



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISD 7/17/08

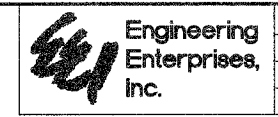
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ILLINOIS DEPARTMENT OF TRANSPORTATION

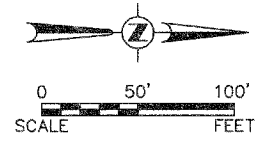
**INTERCONNECT PLAN**  
ILL RTE 47 FROM  
△ CROSS STREET TO  
BLISS RD./WHEELER RD.  
(2 OF 3)

SCALE: 1" = 50'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TWV

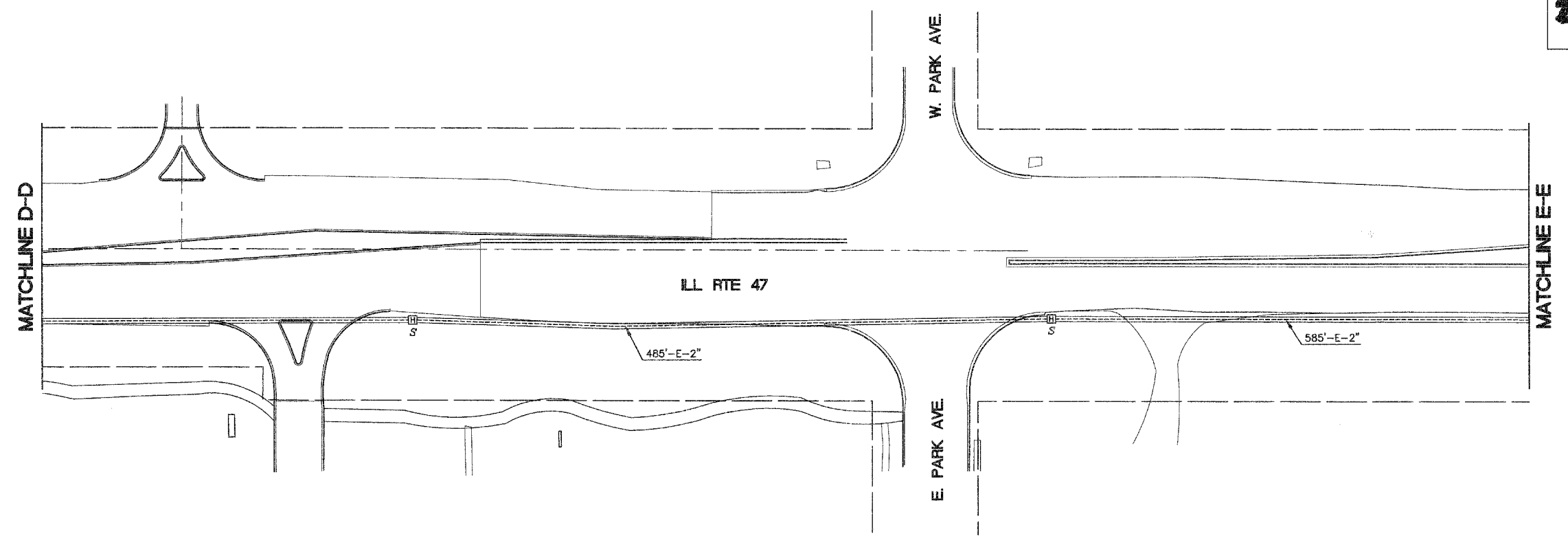


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| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE                      | 232          | 133       |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



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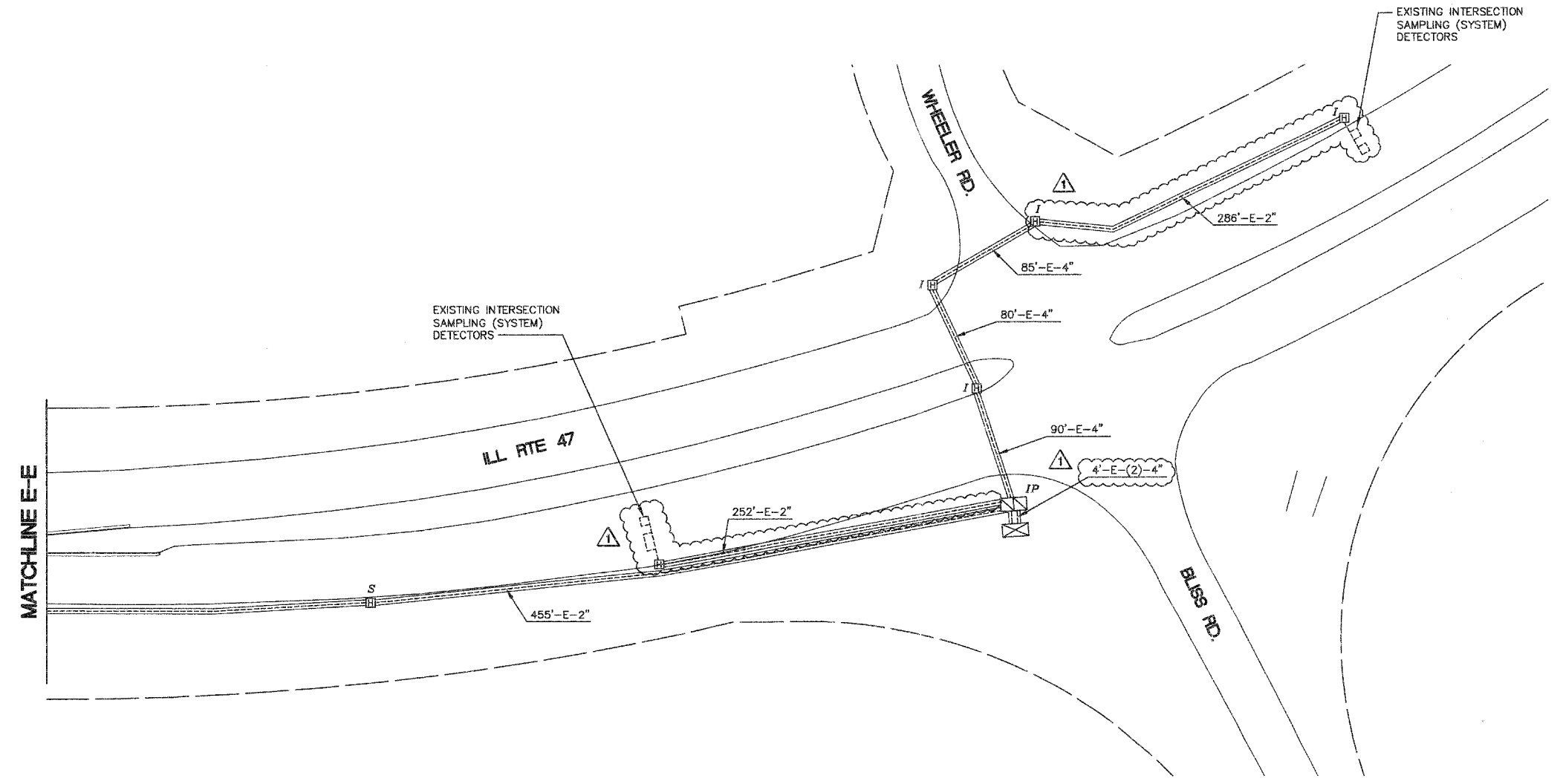
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**INTERCONNECT PLAN LEGEND**

- |                 |                 |                                                                 |
|-----------------|-----------------|-----------------------------------------------------------------|
| <b>EXISTING</b> | <b>PROPOSED</b> |                                                                 |
|                 |                 | CONTROLLER                                                      |
|                 |                 | HANDHOLE                                                        |
|                 |                 | DOUBLE HANDHOLE                                                 |
|                 |                 | HEAVY-DUTY HANDHOLE                                             |
|                 |                 | G.S. CONDUIT IN TRENCH OR PUSHED                                |
|                 |                 | DETECTOR LOOP                                                   |
|                 |                 | CT COMMON TRENCH                                                |
|                 |                 | UD UNIT DUCT                                                    |
|                 |                 | S SYSTEM                                                        |
|                 |                 | I IP INTERSECTION                                               |
|                 |                 | TELEPHONE                                                       |
|                 |                 | TEMPORARY WOOD POLE (CLASS 5 OR BETTER)<br>45 FOOT (13.7m MIN.) |

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT PLAN**  
ILL RTE 47 FROM  
CROSS STREET TO  
BLISS RD./WHEELER RD.  
(3 OF 3)

SCALE: 1" = 50'  
DATE: 05/16/08

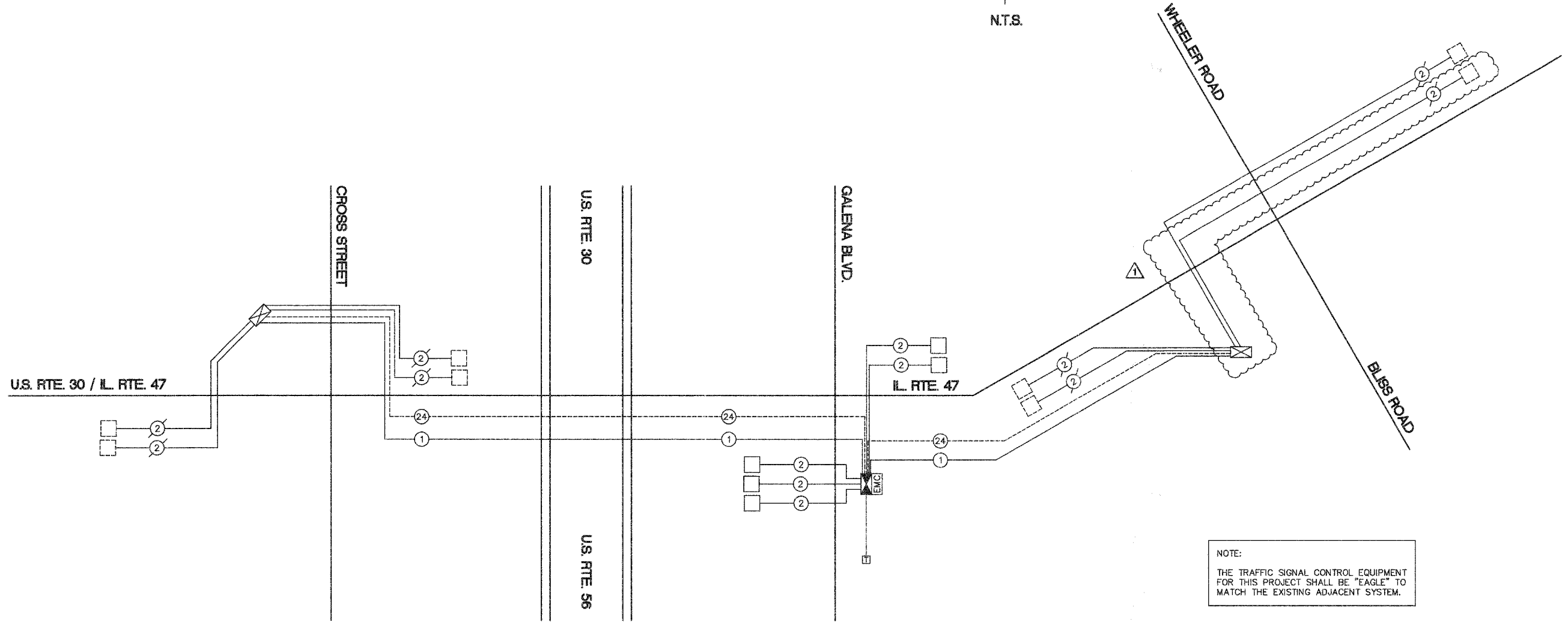
DRAWN BY: KKP  
CHECKED BY: TVW

REVISD 7/17/08





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| F.A. RTE.                      | SECTION         | COUNTY           | TOTAL SHEETS | SHEET NO. |
| N/A                            | 06-00017-00-PVI | KANE             | 232          | 134       |
| STA.                           |                 | TO STA.          |              |           |
| FED. ROAD DIST. NO. - ILLINOIS |                 | FED. AID PROJECT |              |           |



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**INTERCONNECT SCHEMATIC LEGEND**

- |  |                                                                                  |  |                                                                    |
|--|----------------------------------------------------------------------------------|--|--------------------------------------------------------------------|
|  | PROPOSED INTERSECTION CONTROLLER                                                 |  | PROPOSED INTERCONNECT CABLE - NO.62.5/1256 12F - FIBER OPTIC CABLE |
|  | EXISTING INTERSECTION CONTROLLER                                                 |  | EXISTING INTERCONNECT CABLE - NO.62.5/1256 12F - FIBER OPTIC CABLE |
|  | PROPOSED MASTER CONTROLLER                                                       |  | PROPOSED INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED       |
|  | EXISTING MASTER CONTROLLER                                                       |  | EXISTING INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED       |
|  | MASTER MASTER CONTROLLER                                                         |  | PROPOSED LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED               |
|  | PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTOR                               |  | EXISTING LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED               |
|  | EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTOR                               |  | PROPOSED TRACER CABLE NO. 14 1/C                                   |
|  | EXISTING INTERSECTION DETECTOR AND PROPOSED SAMPLING (SYSTEM) DETECTOR           |  | EXISTING TRACER CABLE NO. 14 1/C                                   |
|  | EXISTING SAMPLING (SYSTEM) DETECTOR                                              |  | PROPOSED TELEPHONE CONNECTION                                      |
|  | PROPOSED SAMPLING (SYSTEM) DETECTOR                                              |  | EXISTING TELEPHONE CONNECTION                                      |
|  | PROPOSED INTERCONNECT CABLE - NO.62.5/1256 2 MM 12F & SM 12F - FIBER OPTIC CABLE |  | DOME P.T.Z. CAMERA                                                 |
|  | EXISTING INTERCONNECT CABLE - NO.62.5/1256 2 MM 12F & SM 12F - FIBER OPTIC CABLE |  |                                                                    |

**INTERCONNECT SCHEDULE OF QUANTITIES**

| QUANTITY | UNIT | ITEM DESCRIPTION                                       |
|----------|------|--------------------------------------------------------|
| 6491     | FOOT | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM 12F |
| 6491     | FOOT | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C          |
| 5432     | FOOT | REMOVE ELECTRIC CABLE FROM CONDUIT                     |
| 1        | EACH | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2              |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT SCHEMATIC AND INTERCONNECT QUANTITIES**  
U.S. RTE. 30/IL. RTE. 47 FROM CROSS ST. TO BLISS RD./WHEELER RD.

SCALE: NTS  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

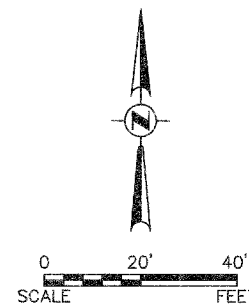
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| NOTE BOOK NO. | BY                 |      |
|               | ALIGNED            |      |
|               | CHECKED            |      |
|               | RT. OF WAY CHECKED |      |
|               | ADD FILE NAME      |      |

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| PROFILE       | SURVEYED                 | DATE |
| NOTE BOOK NO. | BY                       |      |
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|               | E.M. NOTED               |      |
|               | STRUCTURE NOTATIONS CHFD |      |

**Engineering Enterprises, Inc.**

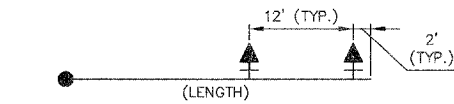
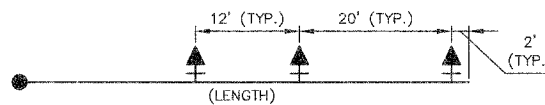
| F.A. RTE.             | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|---------------------------|--------------|-----------|
| N/A                   | 06-00017-00-PV | KANE                      | 232          | 135       |
| STA. 641+50           |                | TO STA. 646+00            |              |           |
| FED. ROAD DIST. NO. _ |                | ILLINOIS FED. AID PROJECT |              |           |



**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**NOTES:**

1. STOP BARS ON U.S. RTE 30 TO BE INSTALLED CONCURRENTLY WITH SIGNAL TURN ON.
2. CHANGEABLE MESSAGE SIGNS WILL BE REQUIRED FOR BOTH DIRECTIONS OF U.S. RTE 30 IN ADVANCE OF THE INTERSECTION ONE WEEK BEFORE AND ONE WEEK AFTER THE TURN ON THE TRAFFIC SIGNAL.



LEFT ON GREEN ARROW ONLY

R10-5  
 24" X 30"  
 SIGN DETAIL  
 (N.T.S.)  
 4 REQUIRED

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 PLOTTED  
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MATCHLINE STA. 641+50

MATCHLINE STA. 50+00

**FUTURE SUGAR GROVE POLICE STATION**

**SUGAR GROVE FIRE DEPARTMENT**

**SUGAR GROVE VILLAGE HALL**

**MUNICIPAL DRIVE**

**U.S. RTE 30**

**TRAFFIC SIGNAL LEGEND**

| EXISTING | PROPOSED | EXISTING | PROPOSED | DESCRIPTION                                      |
|----------|----------|----------|----------|--------------------------------------------------|
|          |          |          |          | G.S. CONDUIT IN TRENCH OR PUSHED                 |
|          |          |          |          | PEDESTRIAN PUSHBUTTON DETECTOR                   |
|          |          |          |          | DETECTOR LOOP                                    |
|          |          |          |          | CAST IRON JUNCTION BOX                           |
|          |          |          |          | EMERGENCY VEHICLE SYSTEM DETECTOR                |
|          |          |          |          | CONFIRMATION BEACON                              |
|          |          |          |          | SIGNAL HEAD OPTICALLY PROGRAMMED                 |
|          |          |          |          | CONDUIT SPLICE                                   |
|          |          |          |          | WOOD POLE                                        |
|          |          |          |          | RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |
|          |          |          |          | VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE  |
|          |          |          |          | RAILROAD CONTROL CABINET                         |
|          |          |          |          | STREET LIGHT                                     |
|          |          |          |          |                                                  |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: 1" = 20'  
 DATE: 05/16/08

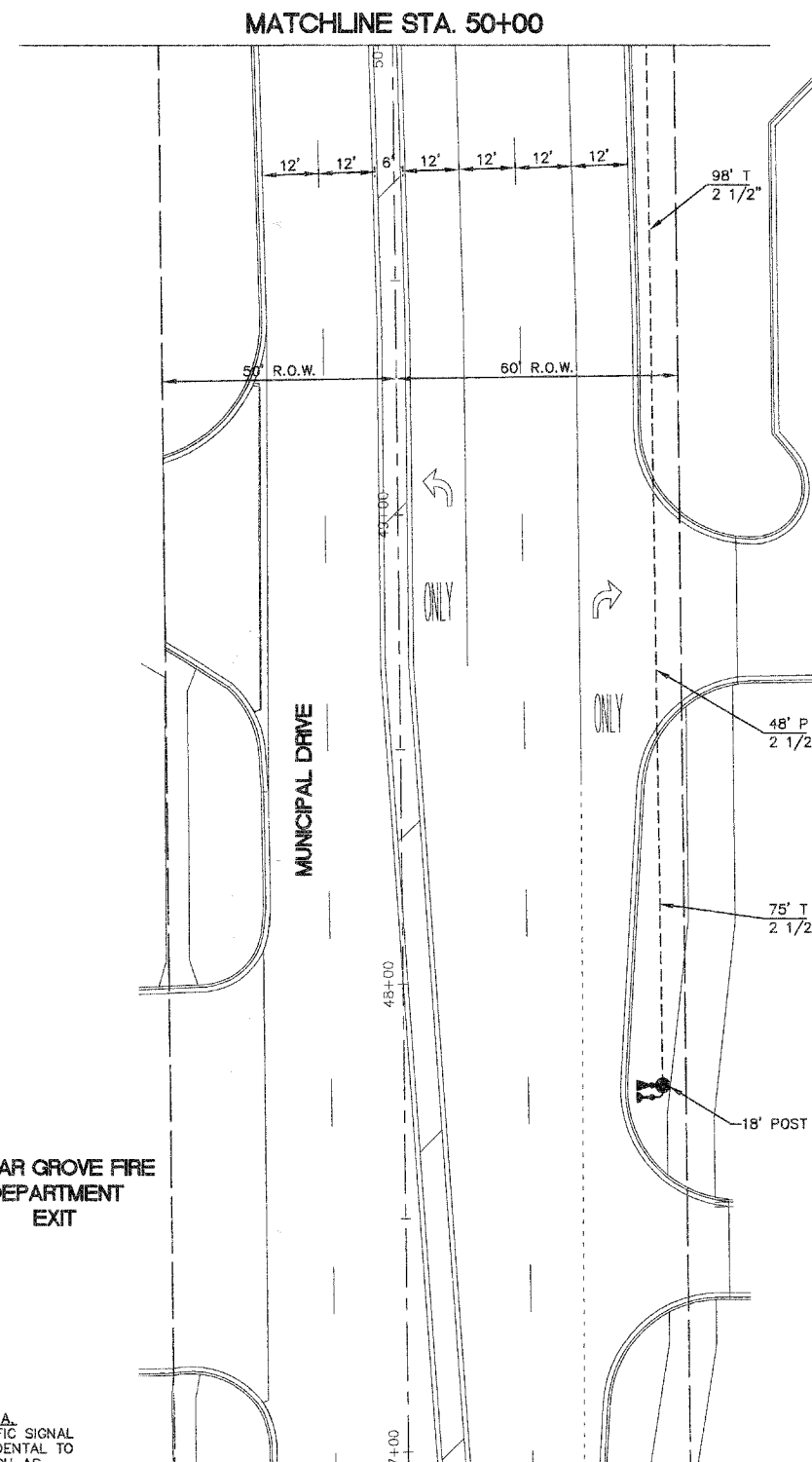
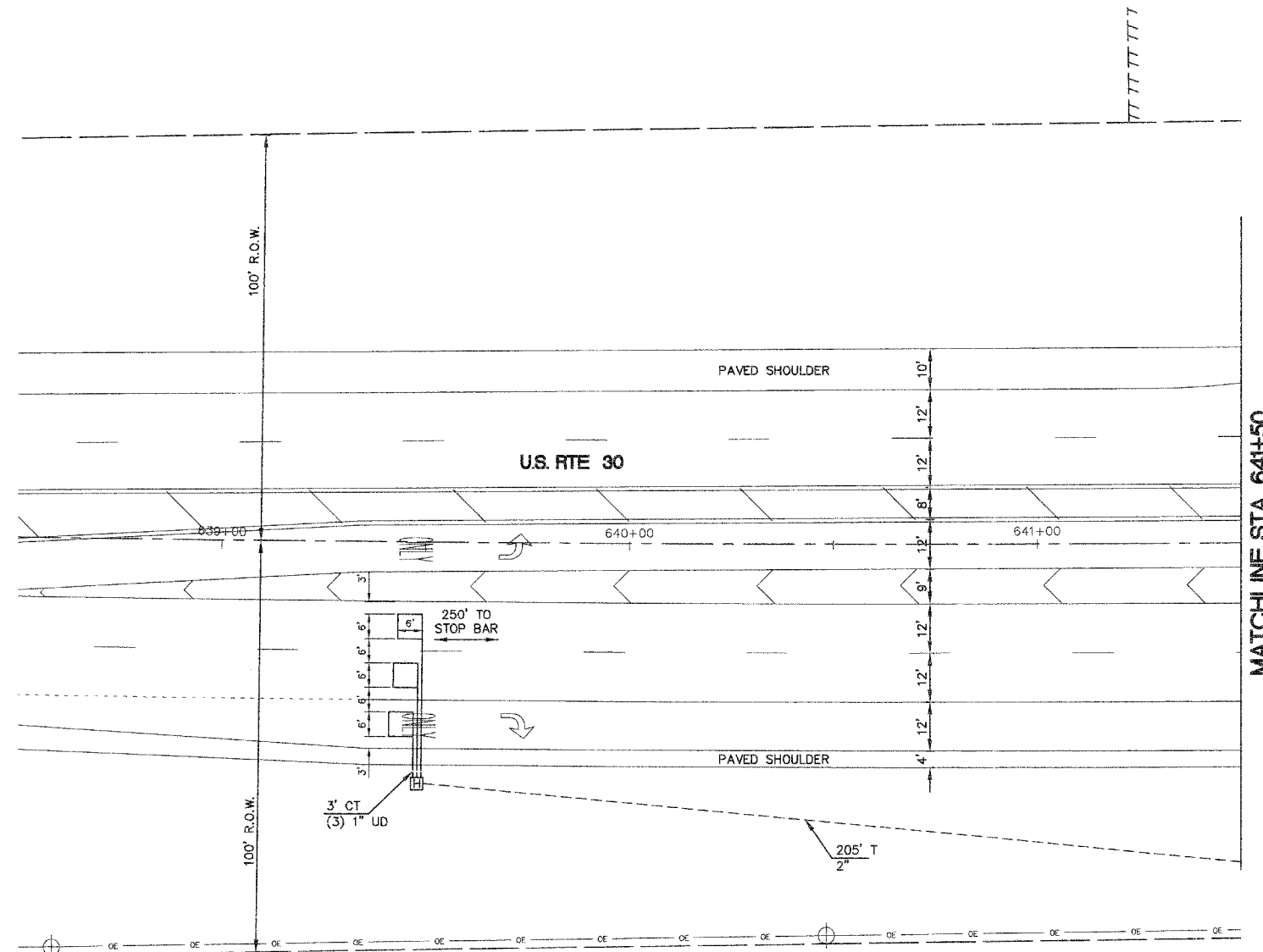
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| F.A. RTE.             | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE                      | 232          | 136       |
| STA. 639+00           |                | TO STA. 641+50            |              |           |
| FED. ROAD DIST. NO. _ |                | ILLINOIS FED. AID PROJECT |              |           |

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| PLAN                        | DATE |
| SURVEYED                    | BY   |
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| GRADES CHECKED              |      |
| STRUCTURE NOTATIONS CHECKED |      |
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| GRADES CHECKED              |      |
| STRUCTURE NOTATIONS CHECKED |      |
| NO.                         |      |



**TRAFFIC SIGNAL LEGEND**

|  |  |                                      |  |  |                                                  |
|--|--|--------------------------------------|--|--|--------------------------------------------------|
|  |  | CONTROLLER                           |  |  | G.S. CONDUIT IN TRENCH OR PUSHED                 |
|  |  | SERVICE INSTALLATION                 |  |  | PEDESTRIAN PUSHBUTTON DETECTOR                   |
|  |  | SIGNAL HEAD                          |  |  | DETECTOR LOOP                                    |
|  |  | SIGNAL HEAD WITH BACKPLATE           |  |  | CAST IRON JUNCTION BOX                           |
|  |  | SIGNAL HEAD, PEDESTRIAN              |  |  | EMERGENCY VEHICLE SYSTEM DETECTOR                |
|  |  | SIGNAL POST                          |  |  | CONFIRMATION BEACON                              |
|  |  | MAST ARM ASSEMBLY AND POLE, STEEL    |  |  | SIGNAL HEAD OPTICALLY PROGRAMMED                 |
|  |  | MAST ARM ASSEMBLY AND POLE, ALUMINUM |  |  | CONDUIT SPLICE                                   |
|  |  | COMMON TRENCH                        |  |  | WOOD POLE                                        |
|  |  | UNIT DUCT                            |  |  | RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II |
|  |  | HANDHOLE                             |  |  | VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE  |
|  |  | HEAVY DUTY HANDHOLE                  |  |  | RAILROAD CONTROL CABINET                         |
|  |  | DOUBLE HANDHOLE                      |  |  | STREET LIGHT                                     |
|  |  | UNINTERRUPTIBLE POWER SUPPLY         |  |  |                                                  |

**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE TRAFFIC SIGNAL INSTALLATION PLAN**

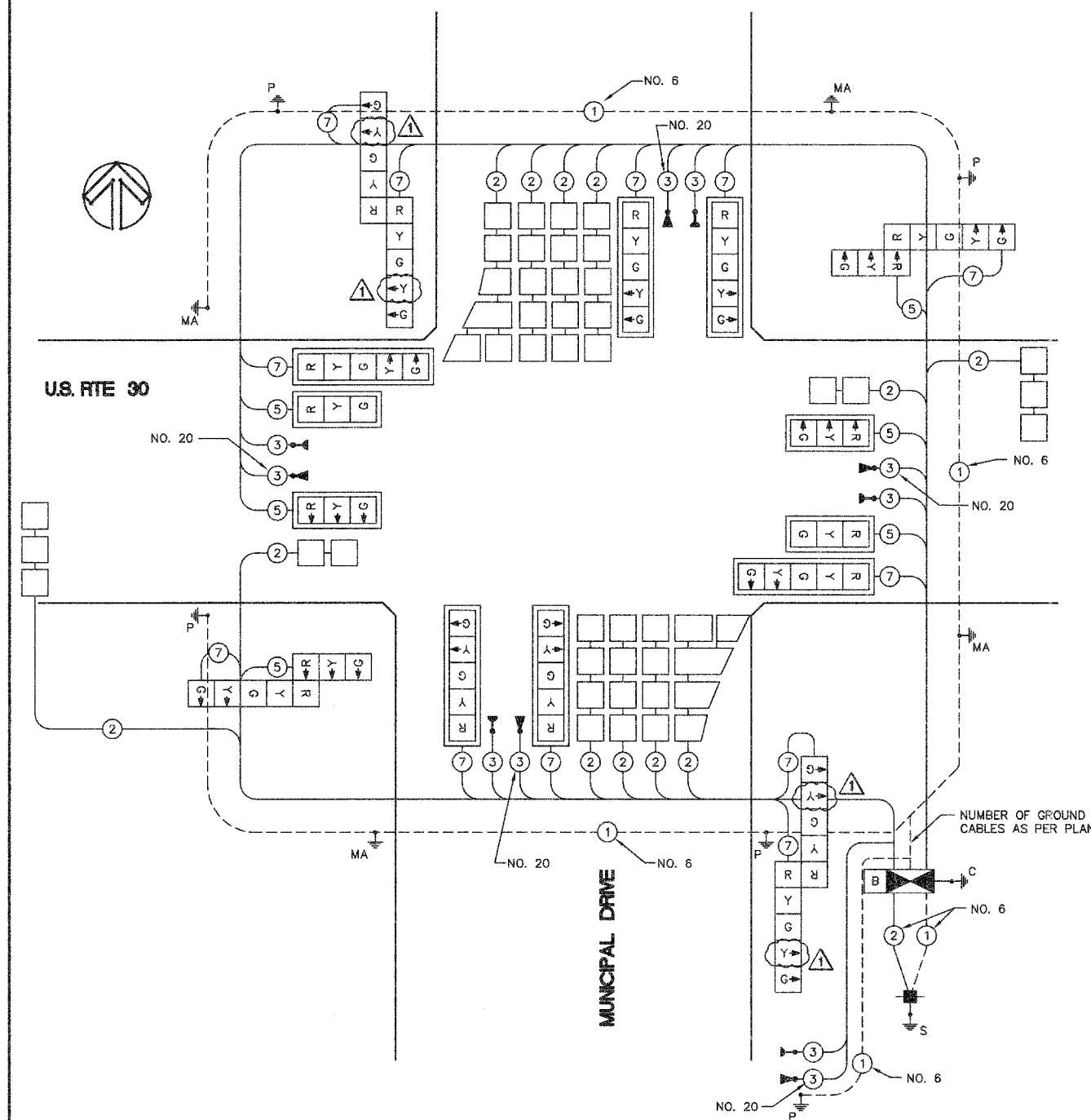
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DRAWN BY: KKP  
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| F.A. RTE.             | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                   | 06-00017-00-PV | KANE                      | 232          | 137       |
| STA.                  |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. _ |                | ILLINOIS FED. AID PROJECT |              |           |

**CABLE PLAN**  
N.T.S.



**CABLE PLAN LEGEND**

| EXISTING | PROPOSED | DESCRIPTION                                                       | QUANTITY | UNIT  |
|----------|----------|-------------------------------------------------------------------|----------|-------|
| [Symbol] | [Symbol] | 8" (200mm) TRAFFIC SIGNAL SECTION                                 |          |       |
| [Symbol] | [Symbol] | 12" (300mm) TRAFFIC SIGNAL SECTION                                | 53       | SQ FT |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION                             | 625      | FOOT  |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMERS       | 446      | FOOT  |
| [Symbol] | [Symbol] | CONTROLLER CABINET                                                | 10       | FOOT  |
| [Symbol] | [Symbol] | SERVICE INSTALLATION                                              | 48       | FOOT  |
| [Symbol] | [Symbol] | TELEPHONE CONNECTION                                              | 412      | FOOT  |
| [Symbol] | [Symbol] | MAGNETIC DETECTOR                                                 | 3        | EACH  |
| [Symbol] | [Symbol] | EMERGENCY VEHICLE LIGHT DETECTOR                                  | 5        | EACH  |
| [Symbol] | [Symbol] | CONFIRMATION BEACON                                               | 2        | EACH  |
| [Symbol] | [Symbol] | PUSHBUTTON DETECTOR                                               | 1346     | FOOT  |
| [Symbol] | [Symbol] | VEHICLE DETECTOR, INDUCTION LOOP                                  | 1        | EACH  |
| [Symbol] | [Symbol] | DENOTES NUMBER OF CONDUCTORS.                                     | 1        | EACH  |
| [Symbol] | [Symbol] | ALL CABLE NO. 14 EXCEPT AS INDICATED.                             | 1        | EACH  |
| [Symbol] | [Symbol] | ALL LOOP DETECTOR CABLE TO BE SHIELDED.                           | 1        | EACH  |
| [Symbol] | [Symbol] | SIGNAL FACE WITH BACKPLATE                                        | 20       | FOOT  |
| [Symbol] | [Symbol] | "P" INDICATES PROGRAMMED HEAD                                     | 4        | FOOT  |
| [Symbol] | [Symbol] | RAILROAD CONTROL CABINET                                          | 60       | FOOT  |
| [Symbol] | [Symbol] | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"                      | 4        | EACH  |
| [Symbol] | [Symbol] | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"                     | 6        | EACH  |
| [Symbol] | [Symbol] | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C) | 2        | EACH  |
| [Symbol] | [Symbol] | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)                      | 10       | EACH  |
| [Symbol] | [Symbol] | GROUND ROD AT ELECTRIC SERVICE INSTALLATION                       | 12       | EACH  |
| [Symbol] | [Symbol] | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)               | 2069     | FOOT  |
| [Symbol] | [Symbol] | NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE                    | 5        | EACH  |
| [Symbol] | [Symbol] | NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE                    | 2        | EACH  |
| [Symbol] | [Symbol] | UNINTERRUPTIBLE POWER SUPPLY                                      | 1        | EACH  |

**SCHEDULE OF QUANTITIES**

| QUANTITY | UNIT | ITEM DESCRIPTION                                                    |
|----------|------|---------------------------------------------------------------------|
| 1        | EACH | SIGN PANEL - TYPE 1                                                 |
| 1        | EACH | SERVICE INSTALLATION - POLE MOUNTED                                 |
| 446      | FOOT | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL                        |
| 625      | FOOT | CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL                    |
| 10       | FOOT | CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL                        |
| 48       | FOOT | CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL                        |
| 412      | FOOT | CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL                           |
| 3        | FOOT | CONDUIT, PUSHED 2-1/2" DIA., GALVANIZED STEEL                       |
| 5        | FOOT | CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL                           |
| 2        | EACH | HANDHOLE                                                            |
| 1346     | FOOT | HEAVY-DUTY HANDHOLE                                                 |
| 1        | EACH | DOUBLE HANDHOLE                                                     |
| 1172     | FOOT | TRENCH AND BACKFILL FOR ELECTRICAL WORK                             |
| 1272     | FOOT | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET                        |
| 1488     | FOOT | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C                      |
| 2807     | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                         |
| 3354     | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                         |
| 98       | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                         |
| 1446     | FOOT | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                   |
| 4        | FOOT | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C                        |
| 1        | FOOT | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED     |
| 1        | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                        |
| 1        | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.                        |
| 1        | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.                            |
| 1        | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.                            |
| 1        | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.                            |
| 1        | EACH | STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.                            |
| 20       | FOOT | CONCRETE FOUNDATION, TYPE A                                         |
| 4        | FOOT | CONCRETE FOUNDATION, TYPE C                                         |
| 60       | FOOT | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                        |
| 4        | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               |
| 6        | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED               |
| 2        | EACH | SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED                |
| 2        | EACH | SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED |
| 10       | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        |
| 12       | EACH | INDUCTIVE LOOP DETECTOR                                             |
| 2069     | FOOT | DETECTOR LOOP, TYPE I                                               |
| 5        | EACH | LIGHT DETECTOR                                                      |
| 2        | EACH | LIGHT DETECTOR AMPLIFIER                                            |
| 1        | EACH | UNINTERRUPTIBLE POWER SUPPLY                                        |

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| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |                 |      |              | TOTAL WATTAGE |
|----------------------------------------------------------------------|-----------|-----------------|------|--------------|---------------|
| TYPE                                                                 | NO. LAMPS | WATTAGE INCAND. | LED  | % OPERATIONS |               |
| SIGNAL (RED)                                                         | 18        | 17              | 0.50 | 0.50         | 153           |
| SIGNAL (YELLOW)                                                      | 18        | 25              | 0.25 | 0.25         | 112.5         |
| SIGNAL (GREEN)                                                       | 18        | 15              | 0.25 | 0.25         | 67.5          |
| ARROW                                                                | 24        | 12              | 0.10 | 0.10         | 28.8          |
| PED. SIGNAL                                                          | 0         | 25              | 1.00 | 1.00         | 0             |
| CONTROLLER                                                           | 1         | 100             | 1.00 | 1.00         | 100           |
| ILLUM. SIGN                                                          | 1         |                 | 0.05 | 0.05         |               |
| FLASHER                                                              |           |                 | 0.50 |              |               |
| TOTAL =                                                              |           |                 |      |              | 461.8         |

**RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

| FOUNDATION (DEPTH) | FT. (m)  | CABLE SLACK      | FT. (m)   | VERTICAL          | FT. (m)      |
|--------------------|----------|------------------|-----------|-------------------|--------------|
| TYPE A - POST      | 4 (1.2)  | HANDHOLE         | 6.5 (2.0) | ALL FOUNDATIONS   | 3.5 (1.1)    |
| D - CONTROLLER     | 4 (1.2)  | DOUBLE HANDHOLE  | 13 (4.0)  | MAST ARM (L) POLE | 20'+L-2 =    |
| F - M ARM POLE     | 2 (1.0)  | SIGNAL POST      | 2 (1.0)   |                   | (6.1+L-1.0)= |
| 36" (900mm)        | 15 (4.6) | CONTROLLER CAB.  | 1 (0.5)   | BRACKET MOUNTED   | 13 (4.0)     |
|                    |          | FIBER OPTIC      | 13 (4.0)  | PED. PUSHBUTTON   | 4 (1.2)      |
|                    |          | ELECTRIC SERVICE | 1 (0.5)   | ELECTRIC SERVICE  | 13.5 (4.1)   |
|                    |          | GROUND CABLE     | 1 (0.5)   | SERVICE TO GROUND | 13.5 (4.1)   |
|                    |          |                  |           | POST MOUNTED      | 6 (1.8)      |

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE**

**CABLE PLAN, AND SCHEDULE OF QUANTITIES**

SCALE: NTS      DRAWN BY: KKP  
DATE: 05/16/08      CHECKED BY: TW



|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| N/A                 | 06-00017-00-PV | KANE                      | 232          | 138       |
| STA.                |                | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

**PROPOSED SEQUENCE OF OPERATION**

| MOVEMENT                                                   | Diagram 1 | Diagram 2 | Diagram 3 | Diagram 4 | Diagram 5                       | Diagram 6 | Diagram 7 | Diagram 8 |            |     |     |     |            |     |     |     |            |     |                                 |     |     |     |     |     |                   |     |                          |     |     |     |                          |     |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |   |
|------------------------------------------------------------|-----------|-----------|-----------|-----------|---------------------------------|-----------|-----------|-----------|------------|-----|-----|-----|------------|-----|-----|-----|------------|-----|---------------------------------|-----|-----|-----|-----|-----|-------------------|-----|--------------------------|-----|-----|-----|--------------------------|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
| PHASE                                                      | 1+5       |           | 1+6       |           | 2+5                             |           | 2+6       |           | 3+7        |     | 3+8 |     | 4+7        |     | 4+8 |     |            |     |                                 |     |     |     |     |     |                   |     |                          |     |     |     |                          |     |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |   |
| INTERVAL                                                   | 1         | 2A        | 2B        | 3A        | 3B                              | 4A        | 4B        | 5         | 5A         | 5B  | 6A  | 6B  | 7          | 8A  | 8B  | 9A  | 9B         | 10  | 11A                             | 11B | 12A | 12B | 13A | 13B | 14                | 15  | 16                       | 17  | 18A | 18B | 19                       | 20  | 21A                      | 21B | 22  | 23  | 24A | 24B | 25  | 26A | 26B |     |     |     |     |     |   |   |   |
| CHANGE TO                                                  | 1+6       |           | 2+5       |           | 2+6<br>3+7<br>3+8<br>4+7<br>4+8 |           | 1+5       |           | ALL OTHERS |     | 1+5 |     | ALL OTHERS |     | 1+5 |     | ALL OTHERS |     | 1+5<br>3+8<br>3+7<br>4+7<br>4+8 |     | 2+5 |     | 1+6 |     | 3+8<br>4+7<br>4+8 |     | 1+5<br>1+6<br>2+5<br>2+6 |     | 4+8 |     | 1+5<br>1+6<br>2+5<br>2+6 |     | 1+5<br>1+6<br>2+5<br>2+6 |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |   |
| MUNICIPAL DRIVE END MAST ARM AND FAR LEFT SIGNALS          | N/B       | R         | R         | R         | R                               | R         | R         | R         | R          | R   | R   | R   | R          | R   | R   | R   | R          | R   | R                               | R   | R   | R   | R   | R   | R                 | R   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R |   |   |
| MUNICIPAL DRIVE NEAR MOUNT MAST ARM AND NEAR RIGHT SIGNALS | N/B       | G->       | G->       | G->       | Y->                             | Y->       | Y->       | G->       | G->        | G-> | Y-> | Y-> | G->        | G-> | G-> | Y-> | Y->        | G-> | G->                             | G-> | Y-> | Y-> | Y-> | Y-> | G->               | G-> | G->                      | Y-> | Y-> | Y-> | G->                      | G-> | G->                      | Y-> | Y-> | Y-> | Y-> | Y-> | G-> | G-> | G-> | Y-> | Y-> | Y-> | Y-> | Y-> |   |   |   |
| MUNICIPAL DRIVE END MAST ARM AND FAR LEFT SIGNALS          | S/B       | R         | R         | R         | R                               | R         | R         | R         | R          | R   | R   | R   | R          | R   | R   | R   | R          | R   | R                               | R   | R   | R   | R   | R   | R                 | R   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R |   |   |
| MUNICIPAL DRIVE NEAR MOUNT MAST ARM AND NEAR RIGHT SIGNALS | S/B       | R         | R         | R         | R                               | R         | R         | R         | R          | R   | R   | R   | R          | R   | R   | R   | R          | R   | R                               | R   | R   | R   | R   | R   | R                 | R   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R |   |   |
| US RTE 30 END MAST ARM AND FAR LEFT SIGNALS                | E/B       | <-G       | <-Y       | <-R       | <-G                             | <-G       | <-Y       | <-R       | <-R        | <-R | <-R | <-R | <-G        | <-G | <-Y | <-R | <-R        | <-R | <-R                             | <-R | <-R | <-R | <-R | <-R | <-R               | <-R | <-R                      | <-R | <-R | <-R | <-R                      | <-R | <-R                      | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R |     |   |   |   |
| US RTE 30 MID MAST ARM SIGNAL                              | E/B       | R         | R         | R         | R                               | R         | R         | R         | R          | R   | R   | R   | R          | G   | Y   | R   | Y          | R   | G                               | Y   | R   | Y   | R   | G   | G                 | Y   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R | R | R |
| US RTE 30 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS        | E/B       | R         | R         | R         | R                               | R         | R         | R         | R          | R   | R   | R   | R          | G   | Y   | R   | Y          | R   | G                               | Y   | R   | Y   | R   | G   | G                 | Y   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R | R | R |
| US RTE 30 END MAST ARM AND FAR LEFT SIGNALS                | W/B       | <-G       | <-G       | <-G       | <-Y                             | <-R       | <-Y       | <-R       | <-G        | <-G | <-G | <-Y | <-R        | <-R | <-R | <-R | <-R        | <-R | <-R                             | <-R | <-R | <-R | <-R | <-R | <-R               | <-R | <-R                      | <-R | <-R | <-R | <-R                      | <-R | <-R                      | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R |   |   |   |
| US RTE 30 MID MAST ARM SIGNAL                              | W/B       | R         | R         | R         | R                               | R         | R         | G         | Y          | R   | Y   | R   | R          | R   | R   | R   | R          | G   | Y                               | R   | Y   | R   | G   | G   | Y                 | R   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R | R |   |
| US RTE 30 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS        | W/B       | R         | R         | R         | R                               | R         | R         | G         | Y          | R   | Y   | R   | R          | R   | R   | R   | R          | G   | Y                               | R   | Y   | R   | G   | G   | Y                 | R   | R                        | R   | R   | R   | R                        | R   | R                        | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R | R |   |

NOTE: PHASE 2 AND 6 SHALL BE PLACED ON MINIMUM RECALL

|      |      |
|------|------|
| PLAN | DATE |
| BY   |      |
| NO.  |      |
| NO.  |      |
| NO.  |      |
| NO.  |      |

**PROPOSED EMERGENCY VEHICLE SEQUENCE OF OPERATION**

| CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER                     | 1   | 1   | 1   | 5   | 5   | 7   | 7   | 10    | 10  | 10  | 14    | 14  | 14  | 19  | 19  | 19  | 22  | 22  | 22  | 25  | 25  | PREEMPTOR NUMBER 3 | PREEMPTOR NUMBER 4 | PREEMPTOR NUMBER 5 | PREEMPTOR NUMBER 6 | CLEAR TO NORMAL SEQUENCE |     |     |     |     |     |     |       |     |     |     |     |     |   |
|------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|--------------------|--------------------|--------------------|--------------------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|---|
| EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER           | 1A  | 1B  | 1C  | 1D  | 1E  | 1F  | 1G  | 1H    | 1I  | 1J  | 1K    | 1L  | 1M  | 1N  | 1O  | 1P  | 1Q  | 1R  | 1S  | 1T  | 1U  | 1V                 | 1W                 | 1X                 | 1Y                 | 1Z                       | 1AA | 1BB | 1CC | 1DD | 1EE | 1FF | 1GG   | 1HH | 2   | 3   | 4   | 5   |   |
| CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER | 1B  | 2,3 | 1D  | 4   | 1F  | 5   | 1H  | 2,3,4 | 5   | 1K  | 2,3,5 | 4   | 1N  | 2,3 | 1P  | 4   | 1R  | 5   | 2   | 3   | 1V  | 4,5                | 2                  | 3                  | 1Z                 | 4,5                      | 1BB | 2   | 3   | 1EE | 4,5 | 1GG | 2,4,5 | 3   |     |     |     |     |   |
| MUNICIPAL DRIVE END MAST ARM AND FAR LEFT SIGNALS                            | N/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   | R |
| MUNICIPAL DRIVE NEAR MOUNT MAST ARM AND NEAR RIGHT SIGNALS                   | N/B | Y-> | R   | Y-> | R   | Y-> | R   | Y->   | R   | Y-> | R     | Y-> | R   | Y-> | R   | Y-> | R   | Y-> | R   | Y-> | R   | Y->                | R                  | Y->                | R                  | Y->                      | R   | Y-> | R   | Y-> | R   | Y-> | R     | Y-> | R   | Y-> | R   | Y-> |   |
| MUNICIPAL DRIVE END MAST ARM AND FAR LEFT SIGNALS                            | S/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   |   |
| MUNICIPAL DRIVE NEAR MOUNT MAST ARM AND NEAR RIGHT SIGNALS                   | S/B | Y-> | R   | Y-> | R   | Y-> | R   | Y->   | R   | Y-> | R     | Y-> | R   | Y-> | R   | Y-> | R   | Y-> | R   | Y-> | R   | Y->                | R                  | Y->                | R                  | Y->                      | R   | Y-> | R   | Y-> | R   | Y-> | R     | Y-> | R   | Y-> | R   | Y-> |   |
| US RTE 30 END MAST ARM AND FAR LEFT SIGNALS                                  | E/B | <-Y | <-R | <-G | <-G | <-Y | <-R | <-R   | <-R | <-R | <-Y   | <-R | <-G | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R                | <-R                | <-R                | <-R                | <-R                      | <-R | <-R | <-R | <-R | <-R | <-R | <-R   | <-R | <-R | <-R | <-R | <-R |   |
| US RTE 30 MID MAST ARM SIGNAL                                                | E/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   |   |
| US RTE 30 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS                          | E/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   |   |
| US RTE 30 END MAST ARM AND FAR LEFT SIGNALS                                  | W/B | <-Y | <-R | <-Y | <-R | <-G | <-G | <-Y   | <-R | <-G | <-R   | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R | <-R                | <-R                | <-R                | <-R                | <-R                      | <-R | <-R | <-R | <-R | <-R | <-R | <-R   | <-R | <-R | <-R | <-R | <-R |   |
| US RTE 30 MID MAST ARM SIGNAL                                                | W/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   |   |
| US RTE 30 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS                          | W/B | R   | R   | R   | R   | R   | R   | R     | R   | R   | R     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R                  | R                  | R                  | R                  | R                        | R   | R   | R   | R   | R   | R   | R     | R   | R   | R   | R   | R   |   |

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

| REVISIONS |        |
|-----------|--------|
| NAME      | DATE   |
| SWG       | 7/9/08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE SEQUENCE OF OPERATION EMERGENCY VEHICLE SEQUENCE OF OPERATION**

SCALE: NTS      DRAWN BY: KKP

DATE: 05/16/08      CHECKED BY: TVW

REVISED 7/17/08

|         |      |
|---------|------|
| PROFILE | DATE |
| BY      |      |
| NO.     |      |
| NO.     |      |
| NO.     |      |





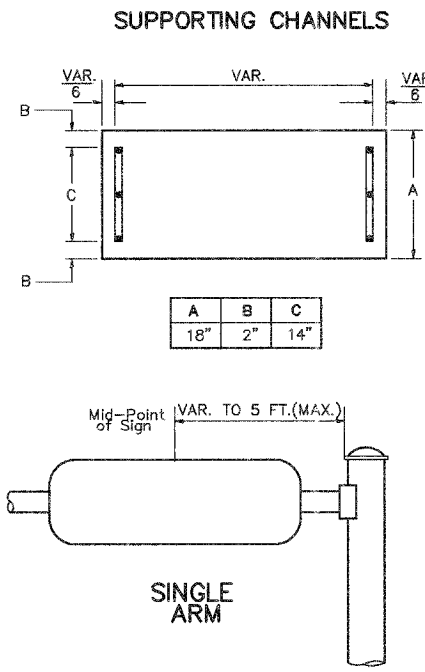
| F.A. RTE. | SECTION        | COUNTY | TOTAL SHEETS                                    | SHEET NO. |
|-----------|----------------|--------|-------------------------------------------------|-----------|
| N/A       | D6-00017-00-PV | KANE   | 232                                             | 139       |
| STA.      | TO STA.        |        | FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT |           |
|           |                |        |                                                 |           |

Upper Case To Lower Case Spacing Chart 8-8 Inch Series "C & D" EXAMPLE, 2<sup>3</sup> DENOTES  $\frac{3}{8}$ "

UPPER AND LOWER CASE LETTER WIDTHS

| LETTERS | 6 INCH UPPER CASE LETTERS |                | 8 INCH UPPER CASE LETTERS |                | 6 INCH LOWER CASE LETTERS |                               |
|---------|---------------------------|----------------|---------------------------|----------------|---------------------------|-------------------------------|
|         | SERIES                    |                | SERIES                    |                | SERIES                    |                               |
|         | C                         | D              | C                         | D              | C                         | D                             |
| A       | 3 <sup>6</sup>            | 5 <sup>0</sup> | 5 <sup>0</sup>            | 6 <sup>5</sup> | a                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| B       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | b                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| C       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | c                         | 3 <sup>5</sup> 4 <sup>1</sup> |
| D       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | d                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| E       | 3 <sup>0</sup>            | 3 <sup>5</sup> | 4 <sup>0</sup>            | 4 <sup>7</sup> | e                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| F       | 3 <sup>0</sup>            | 3 <sup>5</sup> | 4 <sup>0</sup>            | 4 <sup>7</sup> | f                         | 2 <sup>3</sup> 2 <sup>6</sup> |
| G       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | g                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| H       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | h                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| I       | 0 <sup>7</sup>            | 0 <sup>7</sup> | 1 <sup>1</sup>            | 1 <sup>2</sup> | i                         | 1 <sup>1</sup> 1 <sup>1</sup> |
| J       | 3 <sup>0</sup>            | 3 <sup>6</sup> | 4 <sup>0</sup>            | 5 <sup>0</sup> | j                         | 2 <sup>0</sup> 2 <sup>2</sup> |
| K       | 3 <sup>2</sup>            | 4 <sup>1</sup> | 4 <sup>3</sup>            | 5 <sup>4</sup> | k                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| L       | 3 <sup>0</sup>            | 3 <sup>5</sup> | 4 <sup>0</sup>            | 4 <sup>7</sup> | l                         | 1 <sup>1</sup> 1 <sup>1</sup> |
| M       | 3 <sup>7</sup>            | 4 <sup>5</sup> | 5 <sup>1</sup>            | 6 <sup>1</sup> | m                         | 6 <sup>0</sup> 7 <sup>0</sup> |
| N       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | n                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| O       | 3 <sup>4</sup>            | 4 <sup>2</sup> | 4 <sup>5</sup>            | 5 <sup>5</sup> | o                         | 3 <sup>6</sup> 4 <sup>3</sup> |
| P       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | p                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| Q       | 3 <sup>4</sup>            | 4 <sup>2</sup> | 4 <sup>5</sup>            | 5 <sup>5</sup> | q                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| R       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | r                         | 2 <sup>6</sup> 3 <sup>2</sup> |
| S       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | s                         | 3 <sup>6</sup> 4 <sup>2</sup> |
| T       | 3 <sup>0</sup>            | 3 <sup>5</sup> | 4 <sup>0</sup>            | 4 <sup>7</sup> | t                         | 2 <sup>7</sup> 3 <sup>2</sup> |
| U       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | u                         | 3 <sup>5</sup> 4 <sup>2</sup> |
| V       | 3 <sup>5</sup>            | 4 <sup>4</sup> | 4 <sup>7</sup>            | 6 <sup>0</sup> | v                         | 4 <sup>2</sup> 4 <sup>7</sup> |
| W       | 4 <sup>4</sup>            | 5 <sup>2</sup> | 6 <sup>0</sup>            | 7 <sup>0</sup> | w                         | 5 <sup>5</sup> 6 <sup>4</sup> |
| X       | 3 <sup>4</sup>            | 4 <sup>0</sup> | 4 <sup>5</sup>            | 5 <sup>3</sup> | x                         | 4 <sup>4</sup> 5 <sup>1</sup> |
| Y       | 3 <sup>6</sup>            | 5 <sup>0</sup> | 5 <sup>0</sup>            | 6 <sup>6</sup> | y                         | 4 <sup>6</sup> 5 <sup>3</sup> |
| Z       | 3 <sup>2</sup>            | 4 <sup>0</sup> | 4 <sup>3</sup>            | 5 <sup>3</sup> | z                         | 3 <sup>6</sup> 4 <sup>3</sup> |

| SERIES  | SECOND LETTER  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|         | a c d e        |                |                | b h j k l      |                |                | f w            |                | j s t          |                | v y            |                | x z            |                |                |                |
|         | g              | o              | q              | m              | n              | r              | u              |                |                |                |                |                |                |                |                |                |
| A W X   | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| B       | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> |
| C E G   | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |
| D O Q R | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |
| F       | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| H I M N | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>2</sup> | 2 <sup>4</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> |
| J U     | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> |
| K L     | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| P       | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| S       | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| T       | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| V       | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| Y       | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>5</sup> | 0 <sup>7</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| Z       | 1 <sup>6</sup> | 1 <sup>7</sup> | 2 <sup>2</sup> | 2 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> |



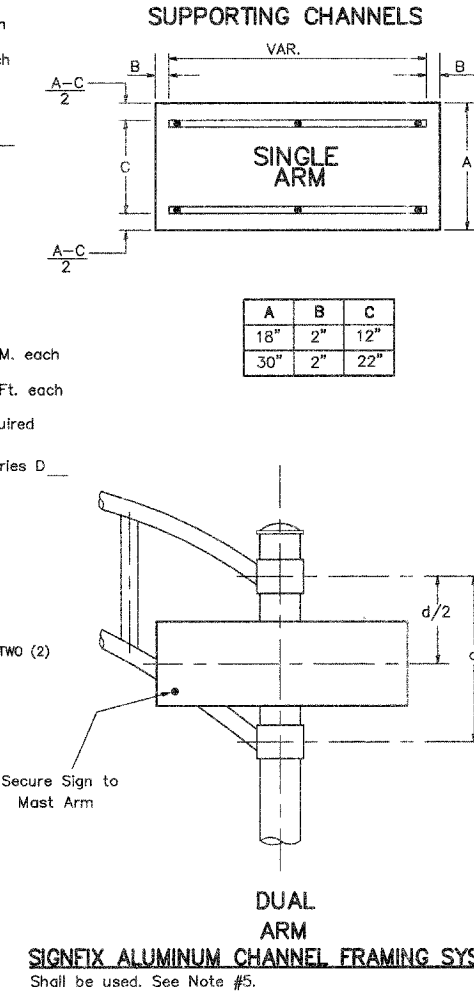
Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

| SERIES | SECOND LETTER  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|        | a c d e        |                |                | b h j k l      |                |                | f w            |                | j s t          |                | v y            |                | x z            |                |                |                |
|        | g              | o              | q              | m              | n              | r              | u              |                |                |                |                |                |                |                |                |                |
| adhgij | 1 <sup>6</sup> | 1 <sup>7</sup> | 2 <sup>2</sup> | 2 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> |
| lmnqu  | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| bfkops | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| ce     | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| r      | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>3</sup> | 0 <sup>3</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> |
| tz     | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| vy     | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 0 <sup>6</sup> | 1 <sup>0</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| w      | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |
| x      | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> |

Number To Number Spacing Chart 8 Inch Series "C & D"

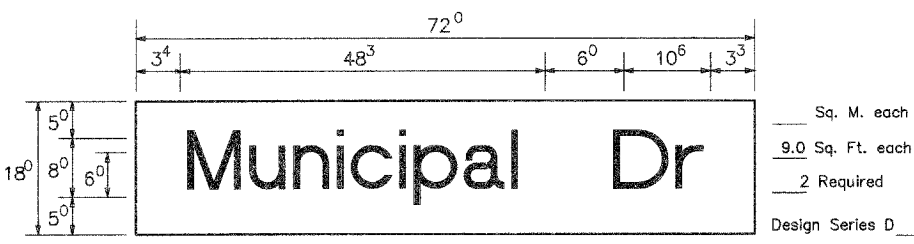
| SERIES | SECOND NUMBER  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|        | 0              | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | C              | D              | C              | D              | C              | D              | C              | D              |
| 0 9    | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> |
| 1      | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> | 2 <sup>1</sup> |
| 2 3 4  | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |
| 5      | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |
| 6      | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |
| 7      | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>5</sup> | 0 <sup>5</sup> | 0 <sup>6</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> |
| 8      | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>6</sup> | 1 <sup>7</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 1 <sup>1</sup> | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> |

| NUMBER | 6 INCH SERIES  |                | 8 INCH SERIES  |                |
|--------|----------------|----------------|----------------|----------------|
|        | C              | D              | C              | D              |
| 1      | 1 <sup>2</sup> | 1 <sup>4</sup> | 1 <sup>5</sup> | 2 <sup>0</sup> |
| 2      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 3      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 4      | 3 <sup>5</sup> | 4 <sup>3</sup> | 4 <sup>7</sup> | 5 <sup>7</sup> |
| 5      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 6      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 7      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 8      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 9      | 3 <sup>2</sup> | 4 <sup>0</sup> | 4 <sup>3</sup> | 5 <sup>3</sup> |
| 0      | 3 <sup>4</sup> | 4 <sup>2</sup> | 4 <sup>5</sup> | 5 <sup>5</sup> |

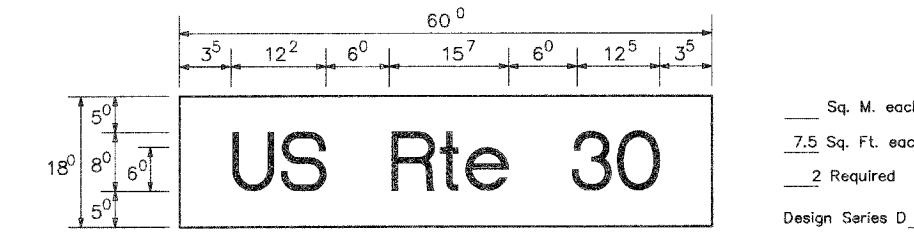


REVISED 7/17/08

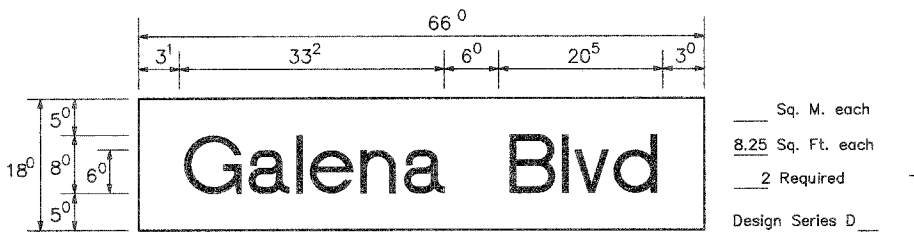
PANEL SIGN DESIGN TYPE 1



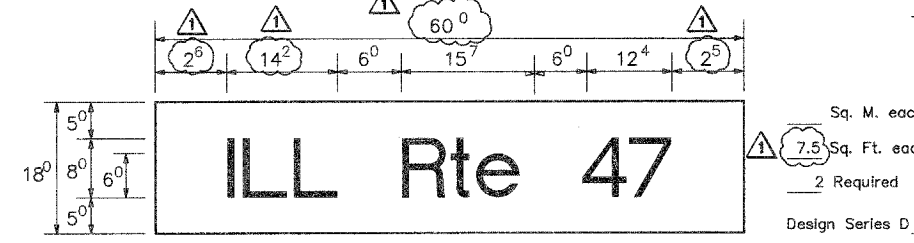
PANEL SIGN DESIGN TYPE 1



PANEL SIGN DESIGN TYPE 1



PANEL SIGN DESIGN TYPE 1



GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
  - ALL BORDERS SHALL BE 1/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNIFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNIFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
    - \* A.K.T. CORPORATION SCHAUMBURG, IL
    - \* TUCKER COMPANY, INC. WAUWATOSA, WI
    - \* AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
    - \* WESTERN TRAFFIC CONTROL INC. CICERO, IL
- PARTS LISTING:
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
  - SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
  - BRACKETS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
  - CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.