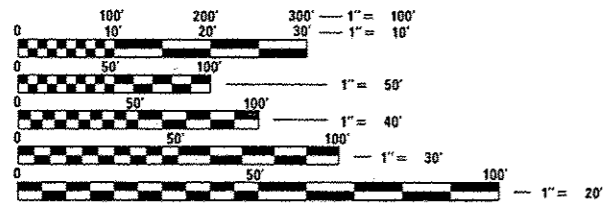


INDEX OF SHEETS

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FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

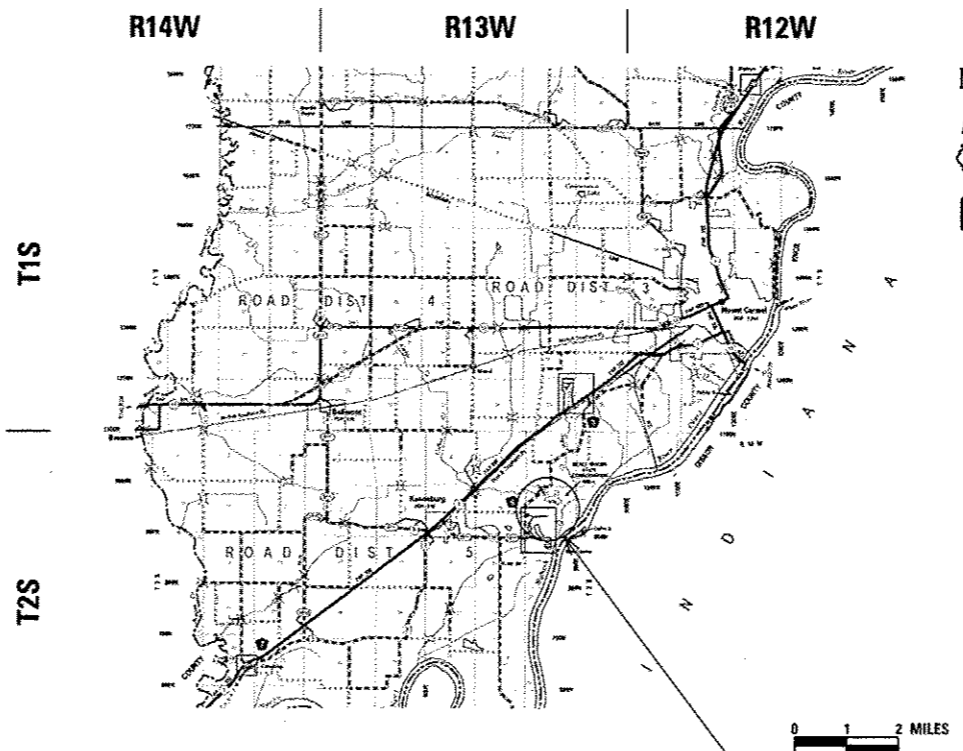
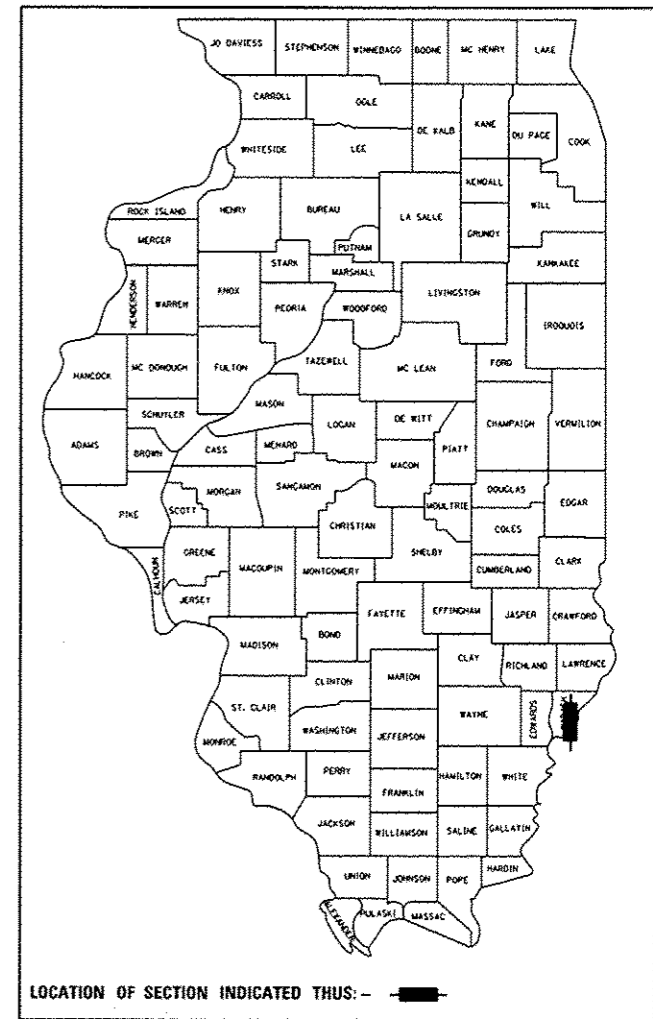
PROJECT ENGINEER: VINCE MADONIA

CONTRACT NO. 46418

STATE OF ILLINOIS 04-28-2017 LETTING ITEM 055  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**  
IDOT /IDNR STATEWIDE  
BEALL WOODS STATE PARK AND NATURE PRESERVE  
SECTION PARK ROADS 2017-02  
PARKING LOT AND ROADWAY IMPROVEMENT  
WABASH COUNTY  
I.D.N.R. FILE NO. 5-16-005  
C-30-020-16

| F.A. RTE. | SECTION            | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-----------|--------------------|----------|--------------------|-----------|
|           | PARK ROADS 2017-02 | WABASH   | 71                 | 1         |
|           |                    | ILLINOIS | CONTRACT NO. 46418 |           |

D-7



Professional Engineer Seal for Robert H. Dalton, State of Illinois, No. 044-0533, Expires 11/30/17, Signed 2/3/17.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 2/10 2017  
[Signature] 2  
REGIONAL ENGINEER

Mar 24 2017  
Maurice M. Addison  
ENGINEER OF DESIGN AND ENVIRONMENT

2/10 2017  
[Signature] 2  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

LIST OF STANDARDS

| STD. NO.  | DESCRIPTION   |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                            |
| 001001-02 | AREAS OF REINFORCEMENT BARS   |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT  |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS                                       |
| 420001-08 | PAVEMENT JOINTS   |
| 420601-06 | 24 FT PCC PAVEMENT  |
| 420701-03 | PAVEMENT WELDED WIRE REINFORCEMENT                                      |
| 424001-09 | PERPENDICULAR CURB RAMP FOR SIDEWALKS                                   |
| 442201-03 | CLASS C & D PATCHES   |
| 542301-03 | PRECAST REINFORCED CONCRETE FLARED END SECTION                          |
| 542401-02 | METAL END SECTIONS FOR PIPE CULVERTS                                    |
| 601001-05 | PIPE UNDERDRAINS  |
| 602401-03 | MANHOLES TYPE A   |
| 602601-04 | PRECAST REINFORCED CONCRETE FLAT SLAB TOP                               |
| 602701-02 | MANHOLE STEPS   |
| 606001-06 | CONCRETE CURB, TYPE B, AND COMBINATION CONCRETE CURB AND GUTTER         |
| 606301-04 | PC CONCRETE ISLANDS AND MEDIANS   |
| 701001-02 | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY                    |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS LESS THAN OR EQUAL TO 45 MPH  |
| 701301-04 | LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS                               |
| 701901-06 | TRAFFIC CONTROL DEVICES   |
| 720001-01 | SIGN PANEL MOUNTING DETAILS   |
| 720006-04 | SIGN PANEL ERECTION DETAILS   |
| 780001-05 | TYPICAL PAVEMENT MARKINGS   |
| 805001-01 | ELECTRICAL SERVICE INSTALLATION DETAILS                                 |
| 821101-02 | LUMINAIRE WIRING IN POLE  |
| 830001-03 | LIGHT POLE, ALUMINUM MAST ARM   |
| 836001-02 | LIGHT POLE FOUNDATION   |

LEGEND

|  |                         |  |                             |
|--|-------------------------|--|-----------------------------|
|  | PROPOSED STORM SEWER    |  | EXISTING POWER POLE         |
|  | EXISTING STORM SEWER    |  | EXISTING FIRE HYDRANT       |
|  | EXISTING DITCH          |  | EXISTING CATCH BASIN        |
|  | PROPOSED INLET          |  | EXISTING INLET              |
|  | EXISTING SIGN           |  | EXISTING MANHOLE            |
|  | EXISTING LIGHT POLE     |  | EXISTING FLARED END SECTION |
|  | EXISTING WATER VALVE    |  | EXISTING BOLLARD            |
|  | EXISTING DECIDUOUS TREE |  | EXISTING JUNCTION BOX       |

GENERAL NOTES

- 1) SPECIFICATIONS SHALL BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016.
- 2) ALL ELEVATIONS ARE REFERENCED TO ELEVATIONS ESTABLISHED BY OTHERS.
- 3) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
- 4) THE CONTRACTOR SHALL CONTACT J.U.L.I.E. TO HAVE PUBLIC AND PRIVATE UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS (800) 892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES, WITH UTILITY COMPANIES LISTED.
- 6) ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS INCLUDED IN THESE PLANS.
- 7) ALL DETAILS IN THE PLANS SHALL GOVERN CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL TAKE PRECEDENCE AND GOVERN.
- 8) THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, IDENTIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 9) ALL CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10) ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- 11) THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING SHALL BE CLASS I. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER 50 YD FOR "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH".
- 12) FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH".
- 13) MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF "TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH".
- 14) THE BASELINES SHOWN THROUGHOUT THE PLANS ARE A "BEST FIT" ALIGNMENT OF THE CENTER OF THE EXISTING ROADWAYS FOR THE PURPOSE OF STATIONING AND DETERMINATION OF OFFSETS. IN MOST CASES, IT DOES NOT REPRESENT THE PHYSICAL CENTER OF THE EXISTING ROADWAY SURFACE. THE QUANTITIES COMPUTED FOR BEALL WOODS PARK ROADS WERE DETERMINED BASED UPON THE "BEST-FIT" ALIGNMENT OF THE EXISTING ROADWAY.  
  
THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, SHALL WORK TO ACHIEVE THE NOTED ROADWAY WIDTHS WITH THE CONCEPT OF MINIMIZING THE PLACEMENT OF NEW MATERIALS.
- 15) CONSULT WITH THE SITE SUPERINTENDENT TO IDENTIFY STAGING AREAS AND MATERIAL STORAGE AREAS.
- 16) ALL SIGN LOCATIONS ARE TO BE STAKED IN THE FIELD BY THE RESIDENT ENGINEER.
- 17) PROVIDE DETECTABLE METALLIC UNDERGROUND TAPE ABOVE ALL NEW UTILITY LINES. COST INCIDENTAL TO NEW UTILITY PAY ITEM.
- 18) THE CONTRACTOR SHALL EXPOSE THE EXISTING SANITARY SEWER AT THE INLET TO THE EXISTING SEPTIC TANKS. THE CONTRACTOR SHALL COORDINATE THE PROPOSED ELEVATIONS AT THE DUMP STATION WITH THE RE PRIOR TO INITIATION OF WORK AT THE DUMP STATION.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| LOCATION(S)                | PARK ROADS  |         |
|----------------------------|-------------|---------|
| MIX USES                   | BINDER      | SURFACE |
| DESIGN AIR VOIDS           | 4.0% @ N=50 |         |
| MIXTURE COMPOSITION        | PG 64-22    |         |
| FRICTION AGGREGATE         | N/A         | MIX C   |
| QUALITY MANAGEMENT PROGRAM | QC/QA       |         |
| SUBLOT SIZE                | N/A         |         |

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | RURAL                   | 100% STATE |
|----------|--|-------|----------------|-------------------------|------------|
|          |  |       |                | CONSTR. CODE            |            |
|          |  |       |                | ROADWAY<br>0004<br>S.N. |            |
| 20200100 | EARTH EXCAVATION                             | CU YD | 811            | 811                     |            |
| 20800150 | TRENCH BACKFILL                              | CU YD | 63             | 63                      |            |
| 21101600 | TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH    | SQ YD | 14,329         | 14,329                  |            |
| 21400100 | GRADING AND SHAPING DITCHES                  | FOOT  | 120            | 120                     |            |
| 28000305 | TEMPORARY DITCH CHECKS                       | FOOT  | 113            | 113                     |            |
| 28000500 | INLET AND PIPE PROTECTION                    | EACH  | 2              | 2                       |            |
| 35101600 | AGGREGATE BASE COURSE, TYPE B, 4"            | SQ YD | 1,183          | 1,183                   |            |
| 35101800 | AGGREGATE BASE COURSE, TYPE B, 6"            | SQ YD | 1,526          | 1,526                   |            |
| 40200100 | AGGREGATE SURFACE COURSE, TYPE A             | TON   | 7              | 7                       |            |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT)            | POUND | 4,850          | 4,850                   |            |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)             | POUND | 10,697         | 10,697                  |            |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS   | TON   | 1.6            | 1.6                     |            |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 245            | 245                     |            |
| 40600990 | TEMPORARY RAMP                               | SQ YD | 36             | 36                      |            |

| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | RURAL                   | 100% STATE |
|----------|--|-------|----------------|-------------------------|------------|
|          |  |       |                | CONSTR. CODE            |            |
|          |  |       |                | ROADWAY<br>0004<br>S.N. |            |
| 40602978 | HOT-MIX ASPHALT BINDER COURSE, IL 9.5, N50   | TON   | 611            | 611                     |            |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON   | 2,691          | 2,691                   |            |
| 42000060 | WELDED WIRE REINFORCEMENT                    | SQ YD | 160            | 160                     |            |
| 42000100 | PORTLAND CEMENT CONCRETE PAVEMENT, 6"        | SQ YD | 128            | 128                     |            |
| 42000300 | PORTLAND CEMENT CONCRETE PAVEMENT, 8"        | SQ YD | 32             | 32                      |            |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH     | SQ FT | 1,183          | 1,183                   |            |
| 42400800 | DETECTABLE WARNINGS                          | SQ FT | 38             | 38                      |            |
| 44000100 | PAVEMENT REMOVAL                             | SQ YD | 262            | 262                     |            |
| 44000600 | SIDEWALK REMOVAL                             | SQ FT | 1,206          | 1,206                   |            |
| 44201761 | CLASS D PATCHES, TYPE I, 10 INCH             | SQ YD | 65             | 65                      |            |
| 44201765 | CLASS D PATCHES, TYPE II, 10 INCH            | SQ YD | 97             | 97                      |            |
| 48101500 | AGGREGATE SHOULDERS, TYPE B, 6"              | SQ YD | 263            | 263                     |            |
| 50105220 | PIPE CULVERT REMOVAL                         | FOOT  | 803            | 803                     |            |
| 54213447 | END SECTIONS 12"                             | EACH  | 24             | 24                      |            |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

| CODE NO. | ITEM  | UNIT   | TOTAL QUANTITY | RURAL        | 100 % STATE |
|----------|---|--------|----------------|--------------|-------------|
|          |   |        |                | CONSTR. CODE |             |
|          |   |        |                | ROADWAY      | 0004        |
| 54213450 | END SECTIONS 15"                                | EACH   | 6              | 6            | 6           |
| 54213453 | END SECTIONS 18"                                | EACH   | 10             | 10           | 10          |
| 54215543 | METAL END SECTIONS 8"                           | EACH   | 1              | 1            | 1           |
| 542C0213 | PIPE CULVERTS, CLASS C, TYPE 1 8"               | FOOT   | 34             | 34           | 34          |
| 542C0217 | PIPE CULVERTS, CLASS C, TYPE 1 12"              | FOOT   | 451            | 451          | 451         |
| 542C0220 | PIPE CULVERTS, CLASS C, TYPE 1 15"              | FOOT   | 86             | 86           | 86          |
| 542C0223 | PIPE CULVERTS, CLASS C, TYPE 1 18"              | FOOT   | 303            | 303          | 303         |
| 56200300 | WATER SERVICE LINE, 1"                          | FOOT   | 9              | 9            | 9           |
| 56200500 | WATER SERVICE LINE, 1 1/2"                      | FOOT   | 67             | 67           | 67          |
| 60605900 | COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12 | FOOT   | 76             | 76           | 76          |
| 63400105 | GUARD POSTS                                     | EACH   | 45             | 45           | 45          |
| 67000500 | ENGINEER'S FIELD OFFICE, TYPE B                 | CAL MO | 4              | 4            | 4           |
| 67100100 | MOBILIZATION                                    | LSUM   | 1              | 1            | 1           |
| 72000100 | SIGN PANEL - TYPE 1                             | SQ FT  | 82             | 82           | 82          |
| 73000100 | WOOD SIGN SUPPORT                               | FOOT   | 331            | 331          | 331         |

\* SPECIALTY ITEM

| CODE NO.   | ITEM   | UNIT  | TOTAL QUANTITY | RURAL        | 100 % STATE |
|------------|--|-------|----------------|--------------|-------------|
|            |  |       |                | CONSTR. CODE |             |
|            |  |       |                | ROADWAY      | 0004        |
| * 78001100 | PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS   | SQ FT | 102.8          | 102.8        | 102.8       |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4"   | FOOT  | 2,696          | 2,696        | 2,696       |
| * 78001130 | PAINT PAVEMENT MARKING - LINE 6"   | FOOT  | 2,665          | 2,665        | 2,665       |
| * 80400100 | ELECTRIC SERVICE INSTALLATION  | EACH  | 1              | 1            | 1           |
| * 81028720 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.                               | FOOT  | 110            | 110          | 110         |
| * 81028750 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.                               | FOOT  | 102            | 102          | 102         |
| * 81603010 | UNIT DUCT, 600V, 2-1/C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE | FOOT  | 642            | 642          | 642         |
| * 81603063 | UNIT DUCT, 600V, 4-1/C NO. 10, 1/C NO. GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE      | FOOT  | 292            | 292          | 292         |
| * 81702110 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10                                | FOOT  | 895            | 895          | 895         |
| * 83600200 | LIGHT POLE FOUNDATION, 24" DIAMETER  | FOOT  | 40             | 40           | 40          |
| * 84200600 | REMOVAL OF LIGHTING UNIT, NO SALVAGE   | EACH  | 4              | 4            | 4           |
| * 84500120 | REMOVAL OF ELECTRIC SERVICE INSTALLATION   | EACH  | 1              | 1            | 1           |
| * 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT  | 2,685          | 2,685        | 2,685       |
| X0300019   | REMOVE AND REINSTALL PARKING BLOCKS  | EACH  | 70             | 70           | 70          |

7103

| CODE NO.   | ITEM  | UNIT  | TOTAL QUANTITY | RURAL        |  | 100 % STATE |      |
|------------|---|-------|----------------|--------------|--|-------------|------|
|            |   |       |                | CONSTR. CODE |  | ROADWAY     |      |
|            |   |       |                |              |  | 0004        | S.N. |
| X0301339   | REMOVE EXISTING PARKING BLOCKS                | EACH  | 24             |              |  | 24          |      |
| X0301797   | GATE REMOVAL                                  | EACH  | 4              |              |  | 4           |      |
| X0321309   | CONCRETE PAD                                  | SQ YD | 8              |              |  | 8           |      |
| X0322939   | RELOCATE EXISTING FLARED END SECTION          | EACH  | 1              |              |  | 1           |      |
| X0323013   | TUBULAR STEEL GATE                            | EACH  | 2              |              |  | 2           |      |
| * X0324062 | ENTRANCE SIGN                                 | L SUM | 1              |              |  | 1           |      |
| X0325777   | BACKFLOW PREVENTER AND ENCLOSURE              | EACH  | 1              |              |  | 1           |      |
| X0325790   | WATER HYDRANT                                 | EACH  | 2              |              |  | 2           |      |
| * X0326498 | GFCI 20 AMP DUPLEX RECEPTACLE                 | EACH  | 4              |              |  | 4           |      |
| X0327680   | TRENCH DRAIN                                  | FOOT  | 44             |              |  | 44          |      |
| X0696100   | PARKING BLOCKS                                | EACH  | 36             |              |  | 36          |      |
| * X1400094 | LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE | EACH  | 7              |              |  | 7           |      |
| X2010400   | STUMP REMOVAL ONLY                            | UNIT  | 27             |              |  | 27          |      |
| X2200003   | FENCE SPECIAL                                 | FOOT  | 32             |              |  | 32          |      |
| * X2600016 | MINOR SIGN COMPLETE                           | EACH  | 16             |              |  | 16          |      |

\* SPECIALTY ITEM

14

| CODE NO.   | ITEM                                     | UNIT  | TOTAL QUANTITY | RURAL        |  | 100 % STATE |      |
|------------|--|-------|----------------|--------------|--|-------------|------|
|            |  |       |                | CONSTR. CODE |  | ROADWAY     |      |
|            |  |       |                |              |  | 0004        | S.N. |
| X4020900   | AGGREGATE SURFACE COURSE, TYPE B SPECIAL | SQ YD | 2,175          |              |  | 2,175       |      |
| X6061055   | CONCRETE ISLAND (SPECIAL)                | SQ FT | 370            |              |  | 370         |      |
| X6340205   | GUARD POSTS REMOVAL                      | EACH  | 58             |              |  | 58          |      |
| X7010216   | TRAFFIC CONTROL AND PROTECTION (SPECIAL) | L SUM | 1              |              |  | 1           |      |
| * X7240300 | SIGN REMOVAL                             | EACH  | 18             |              |  | 18          |      |
| * X7330064 | SIGN SUPPORT SPECIAL                     | EACH  | 16             |              |  | 16          |      |
| X8780105   | CONCRETE FOUNDATIONS (SPECIAL)           | EACH  | 4              |              |  | 4           |      |
| Z0004002   | BOLLARDS                                 | EACH  | 3              |              |  | 3           |      |
| Z0013300   | CONCRETE REMOVAL (SPECIAL)               | SQ YD | 6              |              |  | 6           |      |
| Z0056700   | SANITARY SEWER 4"                        | FOOT  | 40             |              |  | 40          |      |
| X0320055   | WATER TOWER (FREEZE-PROOF)               | EACH  | 1              |              |  | 1           |      |
| * X8570100 | DISCONNECT SWITCH                        | EACH  | 3              |              |  | 3           |      |
| * X1400224 | LIGHT POLE, SPECIAL, 30'                 | EACH  | 7              |              |  | 7           |      |
| * X1400225 | SOLAR LED LIGHTING UNIT COMPLETE         | EACH  | 1              |              |  | 1           |      |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

| DRAINAGE SCHEDULE |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
|-------------------|----------------------|-------------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|----------------------|------------------------------------|-------------------------------------|--------------------------------------|
| LOCATION          | PIPE CULV REM (FOOT) | METAL END SEC 8" (EACH) | END SEC 12" (EACH) | END SEC 15" (EACH) | END SEC 18" (EACH) | PIPE CULV, CL C, TY 1, 8" (FOOT) | PIPE CULV, CL C, TY 1, 12" (FOOT) | PIPE CULV, CL C, TY 1, 15" (FOOT) | PIPE CULV, CL C, TY 1, 18" (FOOT) | TRENCH BACKFILL (CU YD) | TRENCH DRAINS (FOOT) | CLASS D PATCHES, TY I, 10" (SQ YD) | CLASS D PATCHES, TY II, 10" (SQ YD) | RELOCATE EXIST FLARED END SEC (EACH) |
| Main Rd.          |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      | 50                                 | 50                                  |                                      |
| 123+35.22 LT      |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     | 1                                    |
| 137+54.00 RT      | 29                   |                         |                    | 2                  |                    |                                  |                                   | 29                                |                                   | 1.7                     |                      |                                    |                                     |                                      |
| 139+84.00 RT      | 33                   |                         |                    | 2                  |                    |                                  |                                   | 33                                |                                   | 1.7                     |                      |                                    |                                     |                                      |
| 141+10.00 LT      | 20                   |                         | 2                  |                    |                    |                                  | 20                                |                                   |                                   | 1.0                     |                      |                                    |                                     |                                      |
| 142+07.00 X-RD    | 24                   |                         |                    | 2                  |                    |                                  |                                   | 24                                |                                   |                         |                      |                                    |                                     |                                      |
| New Access Rd.    |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 200+13.00 X-RD    |                      |                         |                    |                    | 2                  |                                  |                                   |                                   | 78                                | 6.0                     |                      |                                    |                                     |                                      |
| 202+78.00 RT      | 74                   |                         |                    |                    | 2                  |                                  |                                   |                                   | 74                                | 2.2                     |                      |                                    |                                     |                                      |
| Site Office       |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 301+90.48 RT      | 66                   |                         | 2                  |                    |                    |                                  | 66                                |                                   |                                   | 2.2                     |                      |                                    |                                     |                                      |
| 302+93.00 LT      |                      | 1                       |                    |                    |                    | 34                               |                                   |                                   |                                   | 3.9                     | 44                   |                                    | 9                                   |                                      |
| Campground        |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 400+22.00 X-RD    | 61                   |                         |                    |                    | 2                  |                                  |                                   |                                   | 61                                | 4.8                     |                      |                                    | 10                                  |                                      |
| 402+70.00 RT      | 25                   |                         | 2                  |                    |                    |                                  | 25                                |                                   |                                   | 3.2                     |                      |                                    |                                     |                                      |
| 403+54.00 RT      | 74                   |                         | 2                  |                    |                    |                                  | 74                                |                                   |                                   | 5.5                     |                      |                                    |                                     |                                      |
| 404+94.00 X-RD    | 41                   |                         | 2                  |                    |                    |                                  | 41                                |                                   |                                   | 5.1                     |                      | 5                                  |                                     |                                      |
| 405+99.00 X-RD    | 37                   |                         |                    |                    | 2                  |                                  |                                   |                                   | 31                                | 2.5                     |                      | 5                                  |                                     |                                      |
| 406+47.00 LT      | 11                   |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 406+53.00 RT      | 25                   |                         | 2                  |                    |                    |                                  | 25                                |                                   |                                   | 2.8                     |                      | 5                                  |                                     |                                      |
| 409+31.00 RT      | 24                   |                         | 2                  |                    |                    |                                  | 24                                |                                   |                                   | 2.8                     |                      |                                    |                                     |                                      |
| 409+81.00 RT      | 24                   |                         | 2                  |                    |                    |                                  | 24                                |                                   |                                   | 2.8                     |                      |                                    |                                     |                                      |
| 412+06.00 LT      | 40                   |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 412+68.00 LT      |                      |                         | 2                  |                    |                    |                                  | 46                                |                                   |                                   | 3.7                     |                      |                                    |                                     |                                      |
| 413+94.00 X-RD    | 59                   |                         |                    |                    | 2                  |                                  |                                   |                                   | 59                                | 4.8                     |                      |                                    | 14                                  |                                      |
| Day Use Lot       |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 501+77.00 X-RD    | 34                   |                         | 2                  |                    |                    |                                  | 34                                |                                   |                                   | 3.2                     |                      |                                    | 7                                   |                                      |
| Boat Ramp         |                      |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 605+23.00 X-RD    | 46                   |                         | 2                  |                    |                    |                                  | 46                                |                                   |                                   | 3.2                     |                      |                                    | 7                                   |                                      |
| 607+77.00 RT      | 16                   |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 608+03.00 RT      | 14                   |                         |                    |                    |                    |                                  |                                   |                                   |                                   |                         |                      |                                    |                                     |                                      |
| 608+53.00 LT      | 26                   |                         | 2                  |                    |                    |                                  | 26                                |                                   |                                   |                         |                      |                                    |                                     |                                      |
|                   | <b>803</b>           | <b>1</b>                | <b>24</b>          | <b>6</b>           | <b>10</b>          | <b>34</b>                        | <b>451</b>                        | <b>86</b>                         | <b>303</b>                        | <b>63.1</b>             | <b>44</b>            | <b>65</b>                          | <b>97</b>                           | <b>1</b>                             |

| AGGREGATES SCHEDULE |    |                |                                |                                |                           |                                     |
|---------------------|----|----------------|--------------------------------|--------------------------------|---------------------------|-------------------------------------|
| LOCATION            |    |                | AGGR BSE CSE, TY B, 4" (SQ YD) | AGGR BSE CSE, TY B, 6" (SQ YD) | AGGR SURF CSE, TY A (TON) | AGGR SURF CSE, TY B, (SPCL) (SQ YD) |
| 112+75.00           | to | 116+76.00      | 921                            |                                |                           |                                     |
| 137+55.93           |    |                |                                | 40                             |                           |                                     |
| 139+84.77           |    |                |                                | 33                             |                           |                                     |
| 200+07.00           | to | 202+63.84      |                                | 591                            |                           |                                     |
| 202+87.59           |    |                |                                | 40                             |                           |                                     |
| 301+90.48           |    |                |                                | 32                             |                           |                                     |
| 302+90.28           | to | 303+12.25      |                                |                                | 7                         |                                     |
| 402+51.64           | to | 402+79.95      |                                |                                |                           | 84                                  |
| 403+09.71           | to | 403+57.33      |                                |                                |                           | 102                                 |
| 403+05.47           | to | 403+70.31      |                                |                                |                           | 100                                 |
| 403+47.73           | to | 403+91.24      |                                |                                |                           | 102                                 |
| 403+91.24           | to | 404+91.94      |                                |                                |                           | 201                                 |
| 404+13.10           | to | 404+82.60      |                                |                                |                           | 89                                  |
| 404+91.94           | to | 406+05.38      |                                |                                |                           | 189                                 |
| 405+17.74           | to | 405+70.31      |                                |                                |                           | 93                                  |
| 406+14.42           | to | 406+69.39      | 83                             |                                |                           |                                     |
| 407+37.90           | to | 408+92.09      |                                |                                |                           | 243                                 |
| 407+84.89           | to | 408+34.33      |                                |                                |                           | 87                                  |
| 408+33.24           | to | 408+88.55      |                                |                                |                           | 99                                  |
| 408+90.51           | to | 409+58.07      |                                |                                |                           | 93                                  |
| 409+28.92           | to | 409+96.76      |                                |                                |                           | 174                                 |
| 409+49.83           | to | 409+98.42      |                                |                                |                           | 103                                 |
| 409+98.42           | to | 410+84.61      |                                |                                |                           | 416                                 |
| 410+37.01           | to | 410+62.52      | 35                             |                                |                           |                                     |
| 606+94.80           | to | 608+32.71      |                                | 347                            |                           |                                     |
| 609+67.62           | to | 610+14.61      |                                | 36                             |                           |                                     |
| 700+00.00           | to | 703+20.38      | 144                            | 407                            |                           |                                     |
|                     |    | <b>TOTAL =</b> | <b>1,183</b>                   | <b>1,526</b>                   | <b>7</b>                  | <b>2,175</b>                        |

| DUMP STATION SCHEDULE |    |    |               |                            |                    |                    |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
|-----------------------|----|----|---------------|----------------------------|--------------------|--------------------|----------------------------|--------------------------------|-----------------------|--------------------------------|----------------------|----------------------------|----------------------------------|----------------------|------------------------|-----------|
| STA.                  |    |    |               | WELDED WIRE REINF. (SQ YD) | PCC PVT 8" (SQ YD) | PCC PVT 6" (SQ YD) | WATER SERV LINE, 1" (FOOT) | WATER SERV LINE, 1 1/2" (FOOT) | CC&G TY B-9.12 (FOOT) | BKFL PREV AND ENCLOSURE (EACH) | WATER HYDRANT (EACH) | CONC ISLAND (SPCL) (SQ FT) | WATER TOWER, FREEZE PROOF (EACH) | SAN SEWER, 4" (FOOT) | FENCE (SPECIAL) (FOOT) |           |
| 700+00.00             | CL | to | 703+20.38     | CL                         |                    |                    |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
| 701+24.46             | CL | to | 702+06.46     | CL                         | 128                | 128                |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
| 701+28.56             | LT | to | 701+65.62     | LT                         |                    |                    |                            |                                |                       |                                |                      | 370                        |                                  |                      |                        |           |
| 701+28.56             | LT | to | 701+42.13     | LT                         |                    |                    |                            |                                | 45                    |                                |                      |                            |                                  | 40                   |                        |           |
| 701+39.13             | LT |    |               |                            |                    |                    |                            |                                |                       |                                |                      |                            | 1                                |                      |                        |           |
| 701+45.00             | LT |    |               |                            |                    |                    |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
| 701+47.18             | LT |    |               |                            |                    |                    |                            |                                |                       |                                | 1                    |                            |                                  |                      |                        |           |
| 701+47.18             | LT | to | 701+54.18     | LT                         |                    |                    | 9                          |                                |                       | 1                              |                      |                            |                                  |                      |                        |           |
| 701+54.18             | LT |    |               |                            |                    |                    |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
| 701+54.18             | LT | to | 701+63.19     | RT                         |                    |                    |                            | 67                             |                       |                                |                      |                            |                                  |                      |                        |           |
| 701+58.96             | LT | to | 701+65.62     | LT                         |                    |                    |                            |                                | 31                    |                                |                      |                            |                                  |                      |                        |           |
| 701+62.19             | LT |    |               |                            |                    |                    |                            |                                |                       |                                | 1                    |                            |                                  |                      |                        |           |
| 702+26.41             | LT | to | 702+39.85     | LT                         |                    |                    |                            |                                |                       |                                |                      |                            |                                  |                      | 32                     |           |
| 702+35.80             | LT | to | 702+41.36     | LT                         | 32                 | 32                 |                            |                                |                       |                                |                      |                            |                                  |                      |                        |           |
|                       |    |    | <b>TOTAL=</b> |                            | <b>160</b>         | <b>32</b>          | <b>128</b>                 | <b>9</b>                       | <b>67</b>             | <b>76</b>                      | <b>1</b>             | <b>2</b>                   | <b>370</b>                       | <b>1</b>             | <b>40</b>              | <b>32</b> |

FILE NAME = sht\_06.Schedule of Quantities.dgn  
Default

USER NAME = stevek  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 2/1/2017

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
BEALL WOODS STATE PARK AND NATURE PRESERVE  
SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 6         |
| ILLINOIS FED. AID PROJECT |                    |        | CONTRACT NO. 46418 |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

| PAVING SCHEDULE   |    |           |  |   |  |  |  |   |                                     |  |   |
|-------------------|----|-----------|--|---|--|--|--|---|-------------------------------------|--|---|
|                   |    |           | MIX FOR JTS, CRACKS,<br>AND FLNGWYS<br>(TON)<br>40600400 | HMA SURF<br>REM- BUTT JT<br>(SQ YD)<br>40600982 | BIT MATLS<br>(PRIME COAT)<br>(POUND)<br>40600275 | TACK COAT<br>(PRIME COAT)<br>(POUND)<br>40600290 | HMA BIND CSE<br>IL-9.5, N50<br>(TON)<br>40602978 | HMA SURF CSE<br>MIX "C", N50<br>(TON)<br>40603310 | TEMP<br>RAMP<br>(SQ YD)<br>40600990 | PAVEMENT<br>PATCH TY I, 10"<br>(SQ YD)<br>44201761 | PAVEMENT<br>PATCH TY II, 10"<br>(SQ YD)<br>44201765 |
| Main Rd.          |    |           |  |   |  |  |  |   |                                     |  |   |
| 100+00.00         | to | 112+75.00 |  | 89  |  | 1,275  |  | 320   | 18                                  |  |   |
| 112+75.00         | to | 116+76.00 |  | 89  | 2,005  | 201  | 103  | 101   |                                     |  |   |
| 116+76.00         | to | 140+00.00 |  |   |  | 2,324  |  | 584   | 18                                  |  |   |
| Various Locations |    |           |  |   |  |  |  |   |                                     | 55   | 57  |
| Parking Lot       |    |           |  |   |  |  |  |   |                                     |  |   |
| 140+00.00         | to | 142+01.00 | 0.2  |   |  | 644  |  | 158   |                                     |  |   |
| New Access Rd.    |    |           |  |   |  |  |  |   |                                     |  |   |
| 200+07.00         | to | 202+63.84 |  |   | 1,451  | 132  | 64   | 64  |                                     |  |   |
| 202+63.84         | to | 210+20.04 | 0.3  |   |  | 756  |  | 190   |                                     |  |   |
| Site Office       |    |           |  |   |  |  |  |   |                                     |  |   |
| 300+00.00         | to | 302+90.73 | 0.3  |   |  | 291  |  | 73  |                                     |  |   |
| Parking Lot       |    |           |  |   |  |  |  |   |                                     |  |   |
| 302+90.73         | to | 303+15.85 |  |   |  | 109  |  | 31  |                                     |  |   |
| Campsite          |    |           |  |   |  |  |  |   |                                     |  |   |
| 400+00.00         | to | 414+20.30 |  |   |  | 1,491  | 247  | 304   |                                     |  |   |
| 400+20.00         | to | 400+23.00 |  |   |  |  |  |   |                                     |  | 10  |
| 404+93.50         | to | 404+96.50 |  |   |  |  |  |   | 5                                   |  |   |
| 405+97.00         | to | 406+00.00 |  |   |  |  |  |   | 5                                   |  |   |
| 413+97.50         | to | 414+00.50 |  |   |  |  |  |   |                                     |  | 10  |
| Host Site         |    |           |  |   |  |  |  |   |                                     |  |   |
| 406+56.00         |    |           |  | 188   | 78   | 19   | 19   |   |                                     |  |   |
| ADA Site          |    |           |  |   |  |  |  |   |                                     |  |   |
| 407+14.00         |    |           |  |   |  | 169  | 28   | 28  |                                     |  |   |
| Grp. Pkg. Lot     |    |           |  |   |  |  |  |   |                                     |  |   |
| 410+22.00         |    |           |  |   |  | 305  | 51   | 51  |                                     |  |   |
| Dump Station      |    |           |  |   |  |  |  |   |                                     |  |   |
| 410+12.65         | to | 413+04.01 |  | 1,206   | 121  | 60   | 60   |   |                                     |  |   |
| Day Use Lot       |    |           |  |   |  |  |  |   |                                     |  |   |
| 500+00.00         | to | 501+85.52 |  |   |  | 189  |  | 46  |                                     |  |   |
| 501+75.70         | to | 501.78.70 |  |   |  |  |  |   |                                     |  | 7   |
| 501+85.52         | to | 503+68.20 | 0.3  | 44  | 283  | 115  |  |   |                                     |  |   |
| Boat Ramp         |    |           |  |   |  |  |  |   |                                     |  |   |
| 600+00.00         | to | 605+65.14 |  |   |  | 565  |  | 141   |                                     |  |   |
| 605+22.00         | to | 605+25.00 |  |   |  |  |  |   |                                     |  | 7   |
| 605+65.14         | to | 610+79.96 | 0.5  | 23  | 1,764  | 39   | 389  |   |                                     |  |   |
| 608+89.00         | to | 608+15.40 |  |   |  |  |  |   |                                     |  | 6   |
| Entrances         |    |           |  |   |  |  |  |   |                                     |  |   |
| 137+55.93         | RT |           |  |   |  |  |  | 4.5   |                                     |  |   |
| 139+84.77         | RT |           |  |   |  |  |  | 4.5   |                                     |  |   |
| 202+87.59         | RT |           |  |   |  |  |  | 4.5   |                                     |  |   |
| 301+90.48         | RT |           |  |   |  |  |  | 3.5   |                                     |  |   |
|                   |    |           | 1.6  | 245   | 4,850  | 10,697   | 611  | 2,691   | 36                                  | 65   | 97  |

| EARTHWORK SCHEDULE |    |           |                                   |   |   |
|--------------------|----|-----------|-----------------------------------|---|---|
| LOCATION           |    |           | EARTH EXC.<br>(CU YD)<br>20200100 | TOPSOIL FURN &<br>PLACE, VAR DEPTH<br>(SQ YD)<br>21101600 | GRAD & SHAPING<br>DITCHES<br>(FOOT)<br>21400100 |
| 100+00.00          | to | 140+00.00 | 16                                | 4,444   |   |
| 140+00.00          | to | 142+01.16 |                                   | 270   |   |
| 200+00.00          | to | 202+63.84 | 294                               | 293   | 120   |
| 202+63.84          | to | 210+20.04 | 7                                 | 840   |   |
| 300+00.00          | to | 303+00.00 | 5                                 | 333   |   |
| 400+00.00          | to | 414+20.30 | 14                                | 6,298   |   |
| 410+35.00          | to | 410+64.00 | 6                                 |   |   |
| 500+00.00          | to | 501+85.00 |                                   | 669   |   |
| 600+00.00          | to | 610+63.33 | 64                                | 1,181   |   |
| DUMP STATION       |    |           | 405                               |   |   |
|                    |    |           | 811                               | 14,329  | 120   |

| MISCELLANEOUS ITEMS SCHEDULE |    |    |                                  |                                 |                                |   |   |  |
|------------------------------|----|----|----------------------------------|---------------------------------|--------------------------------|---|---|--|
| STA.                         |    |    | STUMP REM<br>(UNITS)<br>X2010400 | CONC PAD<br>(SQ YD)<br>X0321309 | PVT REM<br>(SQ YD)<br>44000100 | CONC FDNS<br>(SPCL)<br>(EACH)<br>X8780105 | CONC REM<br>(SPCL)<br>(SQ YD)<br>Z0013300 | AGGR SHLDRS<br>TY B, 6"<br>(SQ YD)<br>48101500 |
| 141+53.31                    | RT | to | 141+50.76                        | RT                              | 8                              | 4   |   |  |
| 141+62.64                    | RT |    |                                  |                                 | 27                             |   |   |  |
| 302+95.32                    | RT | to | 303+12.25                        | RT                              |                                | 27  |   |  |
| 410+58.22                    | LT | to | 412+45.37                        | LT                              |                                | 235                                       |   |  |
| 608+63.37                    | RT | to | 610+63.37                        | LT                              |                                |   |   | 107  |
| 701+48.78                    | RT |    |                                  |                                 |                                |   | 6   |  |
| Dump Station                 |    |    |                                  |                                 |                                |   |   | 156  |
| <b>TOTAL=</b>                |    |    | <b>27</b>                        | <b>8</b>                        | <b>262</b>                     | <b>4</b>                                  | <b>6</b>                                  | <b>263</b>                                     |

| EROSION CONTROL SCHEDULE |    |  |  |
|--------------------------|----|--|--|
| LOCATION                 |    | TEMP DITCH<br>CHECKS<br>(FOOT)<br>28000305 | INLET & PIPE<br>PROT<br>(EACH)<br>28000500 |
| 200+12.00                | RT |  | 1  |
| 200+50.00                | RT | 9  |  |
| Dump Station             |    |  |  |
| 410+95.00                | LT | 8  |  |
| 411+26.00                | LT | 8  |  |
| 411+59.00                | LT | 8  |  |
| 411+92.00                | LT | 8  |  |
| 412+25.00                | LT | 8  |  |
| 412+50.00                | LT |  | 1  |
| 413+45.00                | LT | 8  |  |
| 701+13.00                | LT | 8  |  |
| 701+42.00                | LT | 8  |  |
| 701+74.00                | LT | 8  |  |
| 702+06.00                | LT | 8  |  |
| 702+33.00                | LT | 8  |  |
| 702+55.00                | LT | 8  |  |
| 702+81.00                | LT | 8  |  |
| <b>TOTAL=</b>            |    | <b>113</b>                                 | <b>2</b>                                   |

|  |                             |            |           |
|--|-----------------------------|------------|-----------|
| FILE NAME =<br>sht_06.Schedule of Quantities.dgn | USER NAME = stevek          | DESIGNED - | REVISED - |
| Default  | PLOT SCALE = 40.0000' / in. | DRAWN -    | REVISED - |
|  | PLOT DATE = 2/1/2017        | CHECKED -  | REVISED - |
|  |                             | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

| SCHEDULE OF QUANTITIES                     |                     |      |         |
|--|---------------------|------|---------|
| BEALL WOODS STATE PARK AND NATURE PRESERVE |                     |      |         |
| SCALE: NTS                                 | SHEET 2 OF 3 SHEETS | STA. | TO STA. |

|                           |                    |        |                    |              |
|---------------------------|--------------------|--------|--------------------|--------------|
| F.A.<br>RTE.              | SECTION            | COUNTY | TOTAL<br>SHEETS    | SHEET<br>NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 7            |
|                           |                    |        | CONTRACT NO. 46418 |              |
| ILLINOIS FED. AID PROJECT |                    |        |                    |              |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

| SIGN SCHEDULE |    |                           |                            |                            |                       |                          |                     |                |
|---------------|----|---------------------------|----------------------------|----------------------------|-----------------------|--------------------------|---------------------|----------------|
| LOCATION      |    | SIGN PANEL - TY 1 (SQ FT) | MINOR SIGN COMPLETE (EACH) | SIGN SUPPORT (SPCL) (EACH) | ENTRANCE SIGN (L SUM) | WOOD SIGN SUPPORT (FOOT) | SIGN REMOVAL (EACH) | SIGN I.D. NO.  |
|               |    | 72000100                  | X2600016                   | Z0077805                   | X0324062              | 73000100                 | X7240300            |                |
| 100+19.57     | LT | 4                         |                            |                            |                       | 12.5                     | 1                   | R1-1           |
| 100+30.72     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 102+00.00     | RT | 3                         |                            |                            |                       | 12.5                     |                     | R2-1           |
| 102+50.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 107+00.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 107+68.22     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 109+50.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 111+50.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 118+50.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 124+00.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 125+13.02     | LT |                           |                            |                            |                       |                          | 1                   |                |
| 125+75.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 126+80.33     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 139+50.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 141+00.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 141+02.46     | RT | 2                         |                            |                            |                       | 11                       | 1                   | R7-8 & R7-1101 |
| 141+05.99     | LT |                           |                            |                            |                       |                          | 1                   |                |
| 141+30.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 141+54.59     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 141+59.76     | RT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 200+18.48     | LT |                           |                            |                            |                       |                          | 1                   |                |
| 200+21.30     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 200+28.83     | LT | 4                         |                            |                            |                       | 12.5                     |                     | R1-1           |
| 200+50.00     | LT |                           |                            |                            | 1                     |                          |                     |                |
| 201+20.00     | LT |                           | 1                          |                            |                       |                          |                     |                |
| 202+00.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 204+50.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 205+31.71     | RT |                           |                            |                            |                       |                          | 1                   |                |
| 208+50.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 209+85.36     | RT | 4                         |                            |                            |                       | 12.5                     |                     | R1-1           |
| 300+23.32     | RT | 4                         |                            |                            |                       | 12.5                     |                     | R1-1           |
| 303+27.28     | RT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 400+11.47     | RT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2R          |
| 400+11.47     | LT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2L          |
| 402+80.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 403+37.00     | LT |                           |                            | 1                          |                       |                          |                     |                |
| 403+51.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 403+89.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 404+12.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 404+43.00     | LT |                           |                            | 1                          |                       |                          |                     |                |
| 405+08.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 405+37.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 406+35.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 406+87.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 407+70.00     | LT |                           |                            | 1                          |                       |                          |                     |                |
| 408+26.00     | LT |                           |                            | 1                          |                       |                          |                     |                |
| 408+77.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 409+40.00     | LT |                           |                            | 1                          |                       |                          |                     |                |
| 409+89.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 409+90.00     | RT |                           |                            | 1                          |                       |                          |                     |                |
| 410+14.12     | LT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2R          |
| 410+20.00     | RT |                           | 1                          |                            |                       |                          |                     |                |
| 410+80.04     | RT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 410+83.30     | LT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2L          |
| 411+44.96     | LT |                           |                            |                            |                       |                          | 1                   |                |
| 411+52.49     | LT |                           |                            |                            |                       |                          | 1                   |                |
| 412+73.94     | RT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2L          |
| 412+74.86     | LT | 4                         |                            |                            |                       | 12.5                     |                     | R5-1           |
| 413+78.08     | LT | 4                         |                            |                            |                       | 12.5                     |                     | R5-1           |

| SIGN SCHEDULE  |    |                           |                            |                            |                       |                          |                     |                |
|----------------|----|---------------------------|----------------------------|----------------------------|-----------------------|--------------------------|---------------------|----------------|
| LOCATION       |    | SIGN PANEL - TY 1 (SQ FT) | MINOR SIGN COMPLETE (EACH) | SIGN SUPPORT (SPCL) (EACH) | ENTRANCE SIGN (L SUM) | WOOD SIGN SUPPORT (FOOT) | SIGN REMOVAL (EACH) | SIGN I.D. NO.  |
|                |    | 72000100                  | X2600016                   | Z0077805                   | X0324062              | 73000100                 | X7240300            |                |
| 413+88.11      | LT | 3                         |                            |                            |                       | 12.5                     |                     | R6-2L          |
| 413+90.18      | RT | 4                         |                            |                            |                       | 12.5                     |                     | R1-1           |
| 500+20.81      | LT | 4                         |                            |                            |                       | 12.5                     | 1                   | R1-1           |
| 503+47.65      | LT | 2                         |                            |                            |                       | 11                       | 1                   | R7-8 & R7-1101 |
| 600+29.61      | LT | 4                         |                            |                            |                       | 12.5                     | 1                   | R1-1           |
| 605+00.00      | LT |                           | 1                          |                            |                       |                          |                     |                |
| 605+06.00      | RT | 1.5                       |                            |                            |                       | 12.5                     |                     | R7-113b        |
| 606+28.99      | LT |                           |                            |                            |                       |                          | 1                   |                |
| 606+30.76      | LT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 609+66.84      | RT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 609+86.47      | LT | 2                         |                            |                            |                       | 11                       |                     | R7-8 & R7-1101 |
| 609+87.88      | LT |                           |                            |                            |                       |                          | 1                   |                |
| Dump Station   |    |                           |                            |                            |                       |                          |                     |                |
| 411+23.96      | LT | 1.5                       |                            |                            |                       | 11                       |                     |                |
| 411+26.64      | LT | 1.5                       |                            |                            |                       | 11                       |                     |                |
| 411+26.64      | LT | 1.5                       |                            |                            |                       |                          |                     |                |
| 411+68.42      | LT | 2.25                      |                            |                            |                       | 11                       |                     |                |
| 411+68.42      | LT | 2.25                      |                            |                            |                       |                          |                     |                |
| 411+73.00      | LT | 2                         |                            |                            |                       | 11                       |                     |                |
| 411+73.00      | LT | 2                         |                            |                            |                       |                          |                     |                |
| 411+77.19      | LT | 1.5                       |                            |                            |                       | 11                       |                     |                |
| <b>TOTAL =</b> |    | <b>82</b>                 | <b>16</b>                  | <b>16</b>                  | <b>1</b>              | <b>331</b>               | <b>18</b>           | <b>0</b>       |

| PAVEMENT MARKING SCHEDULE |                                  |                                |                                |
|---------------------------|----------------------------------|--------------------------------|--------------------------------|
| LOCATION                  | PAINT PVT MARK LET & SYM (SQ FT) | PAINT PVT MARK -LINE 4" (FOOT) | PAINT PVT MARK -LINE 6" (FOOT) |
|                           | 78001100                         | 78001110                       | 78001130                       |
| Visitor's Center Pkg Lot  | 6.2                              | 560                            | 324                            |
| Site Office Pkg Lot       | 3.1                              |                                | 134                            |
| Campground Rd             | 29.1                             | 80                             | 174                            |
| Day Use Lot               | 3.1                              | 440                            | 146                            |
| Boat Ramp Pkg Lot         | 61.3                             | 1,616                          | 1,887                          |
| <b>TOTAL =</b>            |                                  | <b>102.8</b>                   | <b>2,696</b>                   |

| SIDEWALK SCHEDULE |    |           |                      |                         |                             |
|-------------------|----|-----------|----------------------|-------------------------|-----------------------------|
| LOCATION          |    |           | SIDEWALK REM (SQ FT) | PCC SIDEWALK 5" (SQ FT) | DETECTABLE WARNINGS (SQ FT) |
|                   |    |           | 44000600             | 42400200                | 42400800                    |
| 140+96.96         | to | 141+02.39 | 65                   | 65                      |                             |
| 141+02.87         | to | 141+17.49 | 158                  | 158                     |                             |
| 141+49.08         | to | 141+53.54 | 48                   | 48                      |                             |
| 303+07.30         | to | 303+17.73 | 79                   | 79                      |                             |
| 406+38.00         | to | 407+16.00 | 274                  | 274                     | 38                          |
| 606+32.46         | to | 606+36.64 | 102                  | 79                      |                             |
| 610+05.35         | to | 610+34.27 | 480                  | 480                     |                             |
| <b>TOTAL =</b>    |    |           | <b>1,206</b>         | <b>1,183</b>            | <b>38</b>                   |

| PARKING BLOCKS, GUARD POSTS, GATES AND BOLLARDS SCHEDULE |                           |                                    |                 |                    |                    |                     |                           |                |
|--|---------------------------|------------------------------------|-----------------|--------------------|--------------------|---------------------|---------------------------|----------------|
| LOCATION   | REM EXIST PKG BLKS (EACH) | REM AND RE-INSTALL PKG BLKS (EACH) | PKG BLKS (EACH) | GUARD POSTS (EACH) | GUARD POSTS (EACH) | GATE REMOVAL (EACH) | TUBULAR STEEL GATE (EACH) | BOLLARD (EACH) |
|  | X0301339                  | X0300019                           | X0696100        | X6340205           | 63400105           | X0301797            | X0323013                  | Z0004002       |
| Visitor's Center Pkg Lot                                 |                           | 34                                 |                 |                    |                    | 2                   | 2                         |                |
| Site Office Pkg Lot                                      |                           | 2                                  |                 |                    |                    |                     |                           |                |
| Campground   |                           | 6                                  |                 |                    |                    | 2                   |                           |                |
| Day Use Pkg Lot  | 24                        |                                    | 25              |                    |                    |                     |                           |                |
| Boat Ramp  |                           | 28                                 | 11              | 58                 | 45                 |                     |                           |                |
| Dump Station   |                           |                                    |                 |                    |                    |                     |                           | 3              |
| <b>TOTAL =</b>   |                           | <b>24</b>                          | <b>70</b>       | <b>36</b>          | <b>58</b>          | <b>45</b>           | <b>4</b>                  | <b>3</b>       |

|   |                             |            |           |
|---|-----------------------------|------------|-----------|
| FILE NAME = sht_06.Schedule of Quantities.dgn | USER NAME = stevek          | DESIGNED - | REVISED - |
| Default                                       | PLOT SCALE = 40.0000' / in. | DRAWN -    | REVISED - |
|   | PLOT DATE = 2/1/2017        | CHECKED -  | REVISED - |
|   |                             | DATE -     | REVISED - |

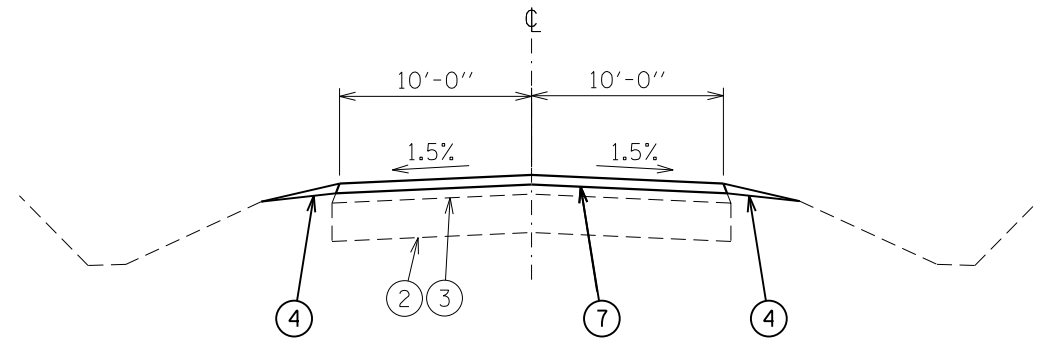
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| SCHEDULE OF QUANTITIES                     |                     |              |  |
|--|---------------------|--------------|--|
| BEALL WOODS STATE PARK AND NATURE PRESERVE |                     |              |  |
| SCALE: NTS                                 | SHEET 3 OF 3 SHEETS | STA. TO STA. |  |

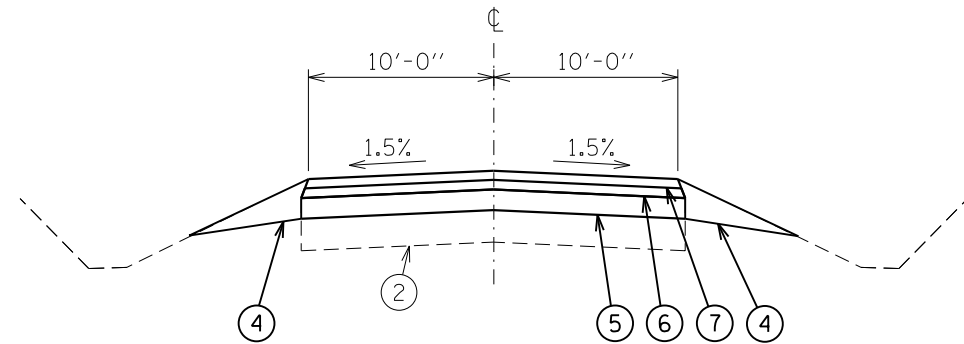
|                    |                    |        |                           |           |
|--------------------|--------------------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | PARK ROADS 2017-02 | WABASH | 71                        | 8         |
| CONTRACT NO. 46418 |                    |        | ILLINOIS FED. AID PROJECT |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

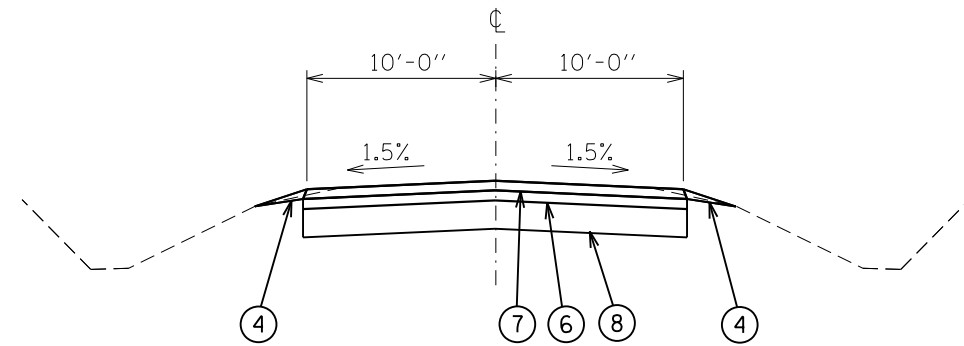




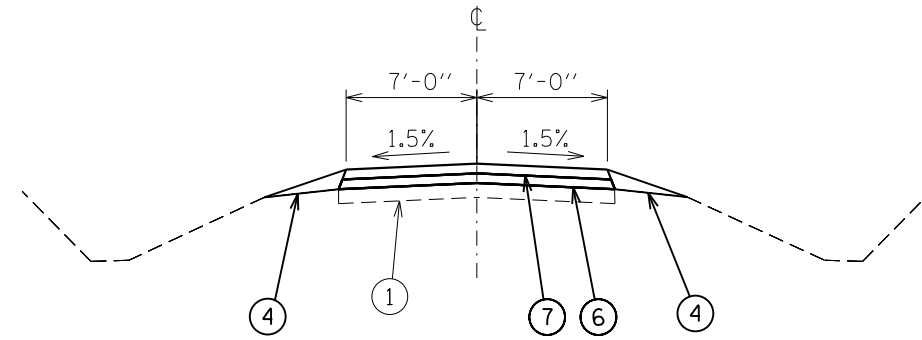
STA. 100+00.00 TO STA. 112+75.00  
 STA. 116+76.00 TO STA. 139+99.58  
 STA. 202+63.84 TO STA. 210+20.04  
 STA. 300+00.00 TO STA. 302+92.62  
 STA. 500+00.00 TO STA. 502+17.51  
 STA. 600+00.00 TO STA. 607+39.00



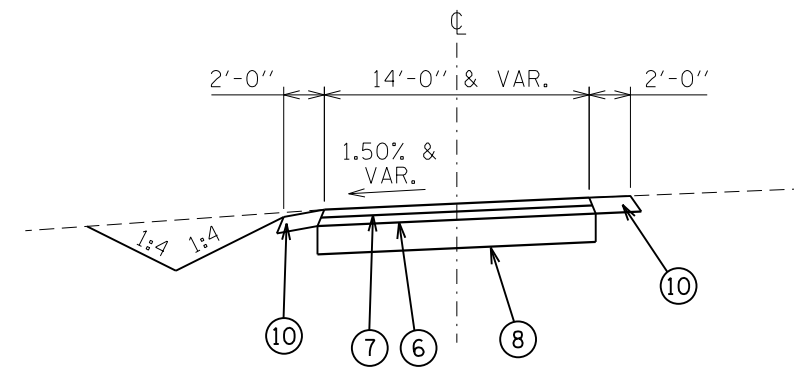
STA. 112+75.00 TO STA. 116+76.00



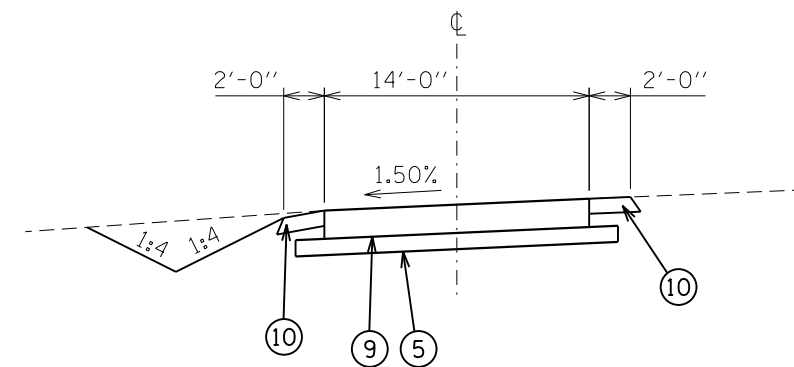
STA. 200+00.00 TO STA. 202+63.84



STA. 400+00.00 TO STA. 414+20.29



DUMP STATION  
 STA. 700+09.10 TO STA. 701+24.25  
 STA. 702+06.25 TO STA. 703+11.73



DUMP STATION  
 STA. 701+24.25 TO STA. 702+06.45

**LEGEND**

- ① EXIST AGGREGATE BASE COURSE, 3"
- ② EXIST CEMENT AGGREGATE MIXTURE SUBBASE, 8"
- ③ EXIST HOT-MIX ASPHALT SURFACE, 2"
- ④ 21101600 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH
- ⑤ 35101600 AGGREGATE BASE COURSE, TYPE B (THICKNESS 4" & VARIES)
- ⑥ 40602978 HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 2"
- ⑦ 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"
- ⑧ 35101800 AGGREGATE BASE COURSE, TYPE B, 6"
- ⑨ 42000100 PORTLAND CEMENT CONCRETE PAVEMENT, 6"
- ⑩ 48101500 AGGREGATE SHOULDERS, TYPE B 6"

|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
|                             | DRAWN - B.T.M.    | REVISED - |
| PLOT SCALE = 10.0000' / in. | CHECKED - R.H.D.  | REVISED - |
| PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - |

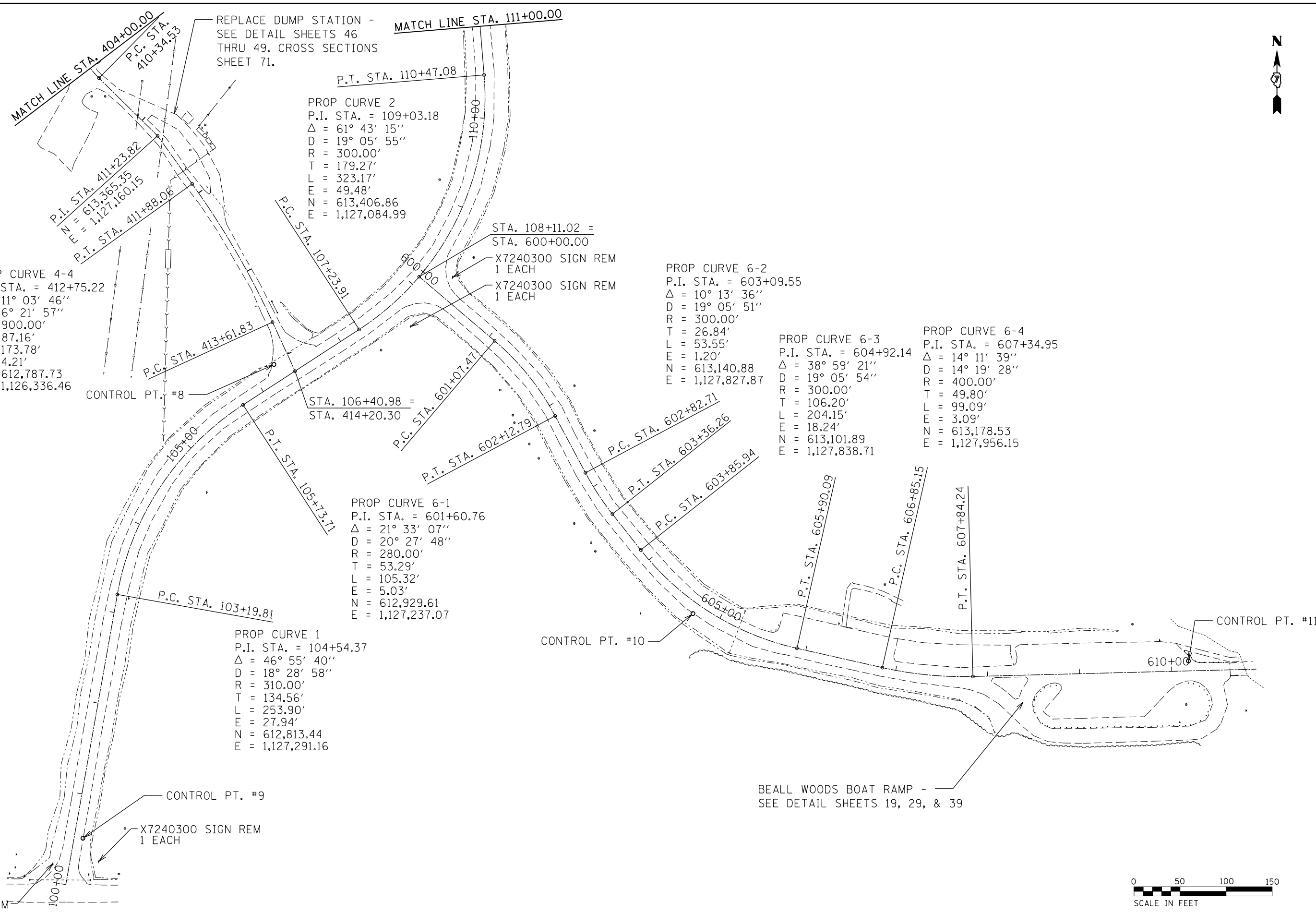
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

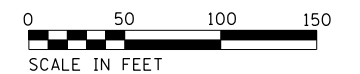
SCALE: NTS SHEET 9 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 9         |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



CONTROL POINTS:  
 CONTROL PT. #8  
 N = 613,117.33  
 E = 1,127,155.89  
 CONTROL PT. #9  
 N = 612,603.18  
 E = 1,126,948.57  
 CONTROL PT. #10  
 N = 612,846.97  
 E = 1,127,610.72  
 CONTROL PT. #11  
 N = 612,795.44  
 E = 1,128,148.46



|  |                              |                   |           |   |  |                       |   |                    |        |              |           |
|--|------------------------------|-------------------|-----------|---|--|-----------------------|---|--------------------|--------|--------------|-----------|
| FILE NAME =<br>sht.10.50 Plan.dgn<br>Default | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE.                                       | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|  | PLOT SCALE = 100.0000' / in. | CHECKED - R.H.D.  | REVISED - |   | SCALE: 1" = 50'  | SHEET 10 OF 71 SHEETS | STA. 100+00.00 TO STA. 111+00.00                | PARK ROADS 2017-02 | WABASH | 71           | 10        |
|  | PLOT DATE = 2/1/2017         | DATE - 2/3/17     | REVISED - |   |  |                       | CONTRACT NO. 46418<br>ILLINOIS FED. AID PROJECT |                    |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 4-1  
 P.I. STA. = 402+34.37  
 $\Delta = 67^\circ 22' 54''$   
 $D = 22^\circ 55' 07''$   
 $R = 75.00'$   
 $T = 50.00'$   
 $L = 88.20'$   
 $E = 15.14'$   
 $N = 614,127.46$   
 $E = 1,127,074.94$

PROP CURVE 4  
 P.I. STA. = 114+77.87  
 $\Delta = 57^\circ 14' 43''$   
 $D = 17^\circ 37' 47''$   
 $R = 325.00'$   
 $T = 177.36'$   
 $L = 324.71'$   
 $E = 45.25'$   
 $N = 614,109.53$   
 $E = 1,127,586.57$

PROP CURVE 4-2  
 P.I. STA. = 404+06.43  
 $\Delta = 30^\circ 21' 37''$   
 $D = 22^\circ 55' 07''$   
 $R = 250.00'$   
 $T = 67.83'$   
 $L = 132.47'$   
 $E = 9.04'$   
 $N = 613,980.85$   
 $E = 1,127,209.09$

PROP CURVE 3  
 P.I. STA. = 114+77.87  
 $\Delta = 22^\circ 18' 56''$   
 $D = 14^\circ 19' 27''$   
 $R = 400.00'$   
 $T = 78.90'$   
 $L = 155.79'$   
 $E = 7.71'$   
 $N = 613,749.35$   
 $E = 1,126,956.42$

PROP CURVE 4-3  
 P.I. STA. = 409+96.68  
 $\Delta = 46^\circ 01' 09''$   
 $D = 57^\circ 17' 41''$   
 $R = 100.00'$   
 $T = 42.47'$   
 $L = 80.32'$   
 $E = 8.64'$   
 $N = 613,499.26$   
 $E = 1,127,009.27$

CAMP SITE ROAD -  
 SEE DETAIL SHEETS  
 16, 17, 26, 27, 36 & 37

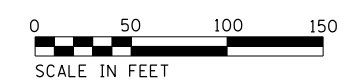
CONTROL PT. #7

VERTICAL PROFILE CORRECTION -  
 SEE PLAN & PROFILE SHEET 41

X7240300 SIGN REM  
 1 EACH

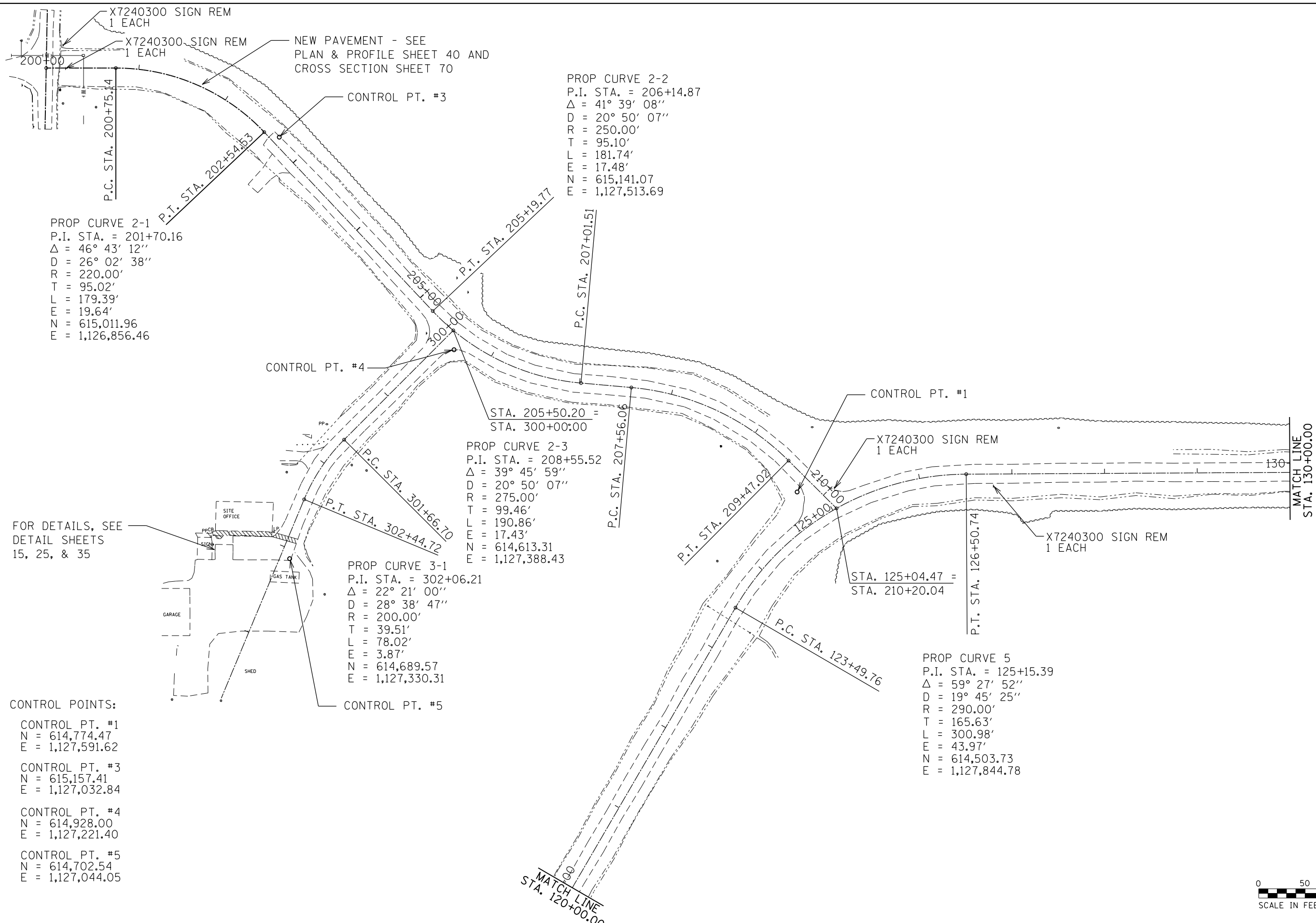
DAY USE PARKING LOT -  
 SEE DETAIL SHEET 18, 28, & 38

CONTROL POINTS:  
 CONTROL PT. #6  
 $N = 614,146.96$   
 $E = 1,127,251.71$   
 CONTROL PT. #7  
 $N = 613,760.11$   
 $E = 1,126,920.61$   
 CONTROL PT. #12  
 $N = 613,612.23$   
 $E = 1,127,507.38$



|                                   |                              |                      |           |   |  |                     |                                  |                    |         |        |                 |              |
|-----------------------------------|------------------------------|----------------------|-----------|---|--|---------------------|----------------------------------|--------------------|---------|--------|-----------------|--------------|
| FILE NAME =<br>sht.11.50 Plan.dgn | USER NAME =<br>stevek        | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                     |                                  | F.A.<br>RTÉ.       | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| Default                           | PLOT SCALE = 100.0000' / in. | CHECKED -<br>R.H.D.  | REVISED - |   | SCALE: 1" = 50'  | SHEET 2 OF 4 SHEETS | STA. 111+00.00 TO STA. 120+00.00 | PARK ROADS 2017-02 | WABASH  | 71     | 11              |              |
|                                   | PLOT DATE = 2/1/2017         | DATE -<br>2/3/17     | REVISED - |   | CONTRACT NO. 46418   |                     |                                  |                    |         |        |                 |              |
|                                   |                              |                      |           |   | ILLINOIS FED. AID PROJECT  |                     |                                  |                    |         |        |                 |              |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 2-1  
 P.I. STA. = 201+70.16  
 $\Delta = 46^\circ 43' 12''$   
 $D = 26^\circ 02' 38''$   
 $R = 220.00'$   
 $T = 95.02'$   
 $L = 179.39'$   
 $E = 19.64'$   
 $N = 615,011.96$   
 $E = 1,126,856.46$

PROP CURVE 2-2  
 P.I. STA. = 206+14.87  
 $\Delta = 41^\circ 39' 08''$   
 $D = 20^\circ 50' 07''$   
 $R = 250.00'$   
 $T = 95.10'$   
 $L = 181.74'$   
 $E = 17.48'$   
 $N = 615,141.07$   
 $E = 1,127,513.69$

PROP CURVE 2-3  
 P.I. STA. = 208+55.52  
 $\Delta = 39^\circ 45' 59''$   
 $D = 20^\circ 50' 07''$   
 $R = 275.00'$   
 $T = 99.46'$   
 $L = 190.86'$   
 $E = 17.43'$   
 $N = 614,613.31$   
 $E = 1,127,388.43$

PROP CURVE 3-1  
 P.I. STA. = 302+06.21  
 $\Delta = 22^\circ 21' 00''$   
 $D = 28^\circ 38' 47''$   
 $R = 200.00'$   
 $T = 39.51'$   
 $L = 78.02'$   
 $E = 3.87'$   
 $N = 614,689.57$   
 $E = 1,127,330.31$

PROP CURVE 5  
 P.I. STA. = 125+15.39  
 $\Delta = 59^\circ 27' 52''$   
 $D = 19^\circ 45' 25''$   
 $R = 290.00'$   
 $T = 165.63'$   
 $L = 300.98'$   
 $E = 43.97'$   
 $N = 614,503.73$   
 $E = 1,127,844.78$

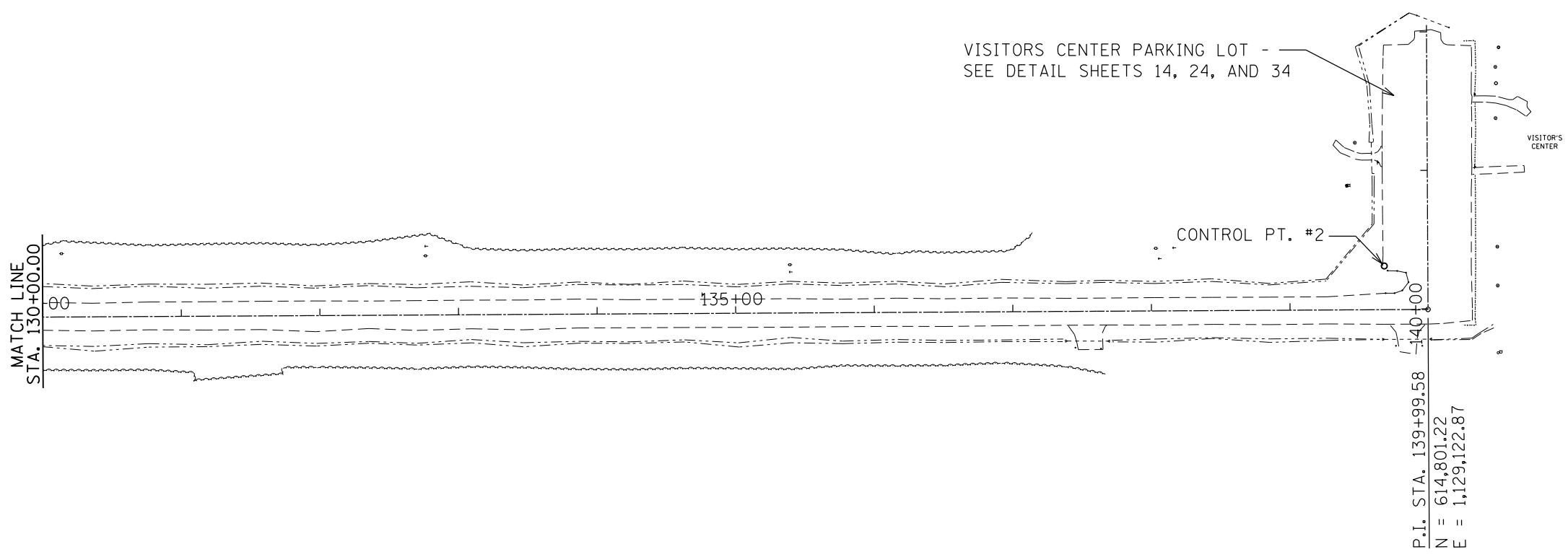
FOR DETAILS, SEE  
 DETAIL SHEETS  
 15, 25, & 35

CONTROL POINTS:  
 CONTROL PT. #1  
 $N = 614,774.47$   
 $E = 1,127,591.62$   
 CONTROL PT. #3  
 $N = 615,157.41$   
 $E = 1,127,032.84$   
 CONTROL PT. #4  
 $N = 614,928.00$   
 $E = 1,127,221.40$   
 CONTROL PT. #5  
 $N = 614,702.54$   
 $E = 1,127,044.05$

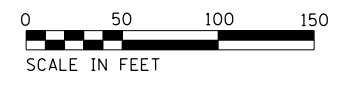


|                                   |                              |                      |           |   |  |         |             |                |                   |                    |                 |              |    |
|-----------------------------------|------------------------------|----------------------|-----------|---|--|---------|-------------|----------------|-------------------|--------------------|-----------------|--------------|----|
| FILE NAME =<br>sht.12.50 Plan.dgn | USER NAME =<br>stevek        | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |         |             | F.A.<br>RTÉ.   | SECTION           | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |    |
| Default                           | PLOT SCALE = 100.0000' / in. | CHECKED -<br>R.H.D.  | REVISED - |   | SCALE: 1" = 50'  | SHEET 3 | OF 4 SHEETS | STA. 120+00.00 | TO STA. 130+00.00 | PARK ROADS 2017-02 | WABASH          | 71           | 12 |
|                                   | PLOT DATE = 2/1/2017         | DATE -<br>2/3/17     | REVISED - |   | CONTRACT NO. 46418   |         |             |                |                   |                    |                 |              |    |
|                                   |                              |                      |           |   | ILLINOIS FED. AID PROJECT  |         |             |                |                   |                    |                 |              |    |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



CONTROL POINTS:  
 CONTROL PT. #2  
 N = 614,832.61  
 E = 1,129,091.30



|                                   |                              |                   |           |
|-----------------------------------|------------------------------|-------------------|-----------|
| FILE NAME =<br>sht.13.50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - |
| Default                           | PLOT SCALE = 100.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/1/2017         | CHECKED - R.H.D.  | REVISED - |
|                                   |                              | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING SITE LAYOUT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 50'    SHEET 4 OF 4 SHEETS    STA. 130+00.00 TO STA. 142+04.93

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 13        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



ELEV. = 436.67  
 N = 614,992.12  
 E = 1,129,090.81

50105220 PIPE CULV REM  
 STA. 142+11.65 6.29' LT TO  
 STA. 142+03.12 15.91' RT  
 24 FOOT

ELEV. = 436.67  
 N = 614,992.23  
 E = 1,129,154.15

X2010400 STUMP REM ONLY  
 STA. 141+62.64, 49.91' RT  
 27 UNITS

VISITOR'S  
 CENTER

SEE SHEET #44 FOR  
 SIDEWALK DETAILS

X7240300 SIGN REM  
 1 EACH

SEE SHEET #44 FOR  
 SIDEWALK DETAILS

X7240300 SIGN REM  
 1 EACH

X7240300 SIGN REM  
 1 EACH

SEE SHEET #44 FOR  
 SIDEWALK DETAILS

50105220 PIPE CULV REM  
 STA. 141+00.09 39.88' LT TO  
 STA. 141+19.48 40.20' LT  
 20 FOOT

CONTROL  
 PT. #2

ELEV. = 438.35  
 N = 614,831.05  
 E = 1,129,090.12

ELEV. = 438.66  
 N = 614,829.16  
 E = 1,129,093.70

X0300019 REMOVE AND  
 REINSTALL PARKING BLOCKS  
 34 EACH

ELEV. = 439.14  
 N = 614,791.40  
 E = 1,129,155.01

WH

N = 614,791.28  
 E = 1,129,134.03

50105220 PIPE CULV REM  
 STA. 139+68.16 21.47' RT TO  
 STA. 139+99.58 21.58' RT  
 33 FOOT

X0301797 GATE REMOVAL  
 STA. 139+76.39 RT TO  
 STA. 139+95.38 RT  
 1 EACH

50105220 PIPE CULV REM  
 STA. 137+39.41 21.38' RT TO  
 STA. 137+68.34 21.62' RT  
 29 FOOT

X0301797 GATE REMOVAL  
 STA. 137+45.07 RT TO  
 STA. 137+63.55 RT  
 1 EACH

CONTROL POINTS:

CONTROL PT. #2  
 N = 614,832.61  
 E = 1,129,091.30

FOR LIGHTING PLANS, SEE  
 SHEETS 59 TO 70



|                                   |                             |                   |           |
|-----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_14-20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                           |                             | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |
|                                   | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING VISITORS CENTER PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 20' SHEET OF SHEETS STA. 136+00.00 TO STA. 142+20.00

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 14        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



50105220 PIPE CULV REM  
 STA. 301+53.31 20.56' RT TO  
 STA. 302+14.16 23.93' RT  
 66 FOOT

44000100 PAVEMENT REMOVAL  
 STA. 302+90.28 18.78' RT  
 STA. 303+12.25 59.62' RT  
 27 SQ YD

+90.48

P.C. STA. 301+66.70

P.T. STA. 302+44.72

PROP CURVE 3-1  
 P.I. STA. = 302+06.21  
 $\Delta = 22^\circ 21' 00''$   
 $D = 28^\circ 38' 47''$   
 $R = 200.00'$   
 $T = 39.51'$   
 $L = 78.02'$   
 $E = 3.87'$   
 $N = 614,689.57$   
 $E = 1,127,330.31$

44201765 CL D PATCH,  
 TY II, 10"  
 STA. 302+90.00  
 9 SQ YD

SEE SHEET #44 FOR  
 SIDEWALK DETAILS

SITE OFFICE

PPCB  
 SIGN

X7240300 SIGN REM  
 1 EACH

CONTROL  
 PT. #5  
 GAS TANK

X0300019 REM & REINSTALL  
 PKG BLKS  
 STA. 303+26.95 68.42' RT  
 STA. 303+39.70 62.82 RT  
 2 EACH

ELEV. = 427.00  
 $N = 614,701.80$   
 $E = 1,126,963.83$

GARAGE

MOBILIZATION AREA

ELEV. = 426.15  
 $N = 614,700.60$   
 $E = 1,127,044.90$

SHED

LEGEND



CONTROL POINTS:

CONTROL PT. #5  
 $N = 614,702.54$   
 $E = 1,127,044.05$



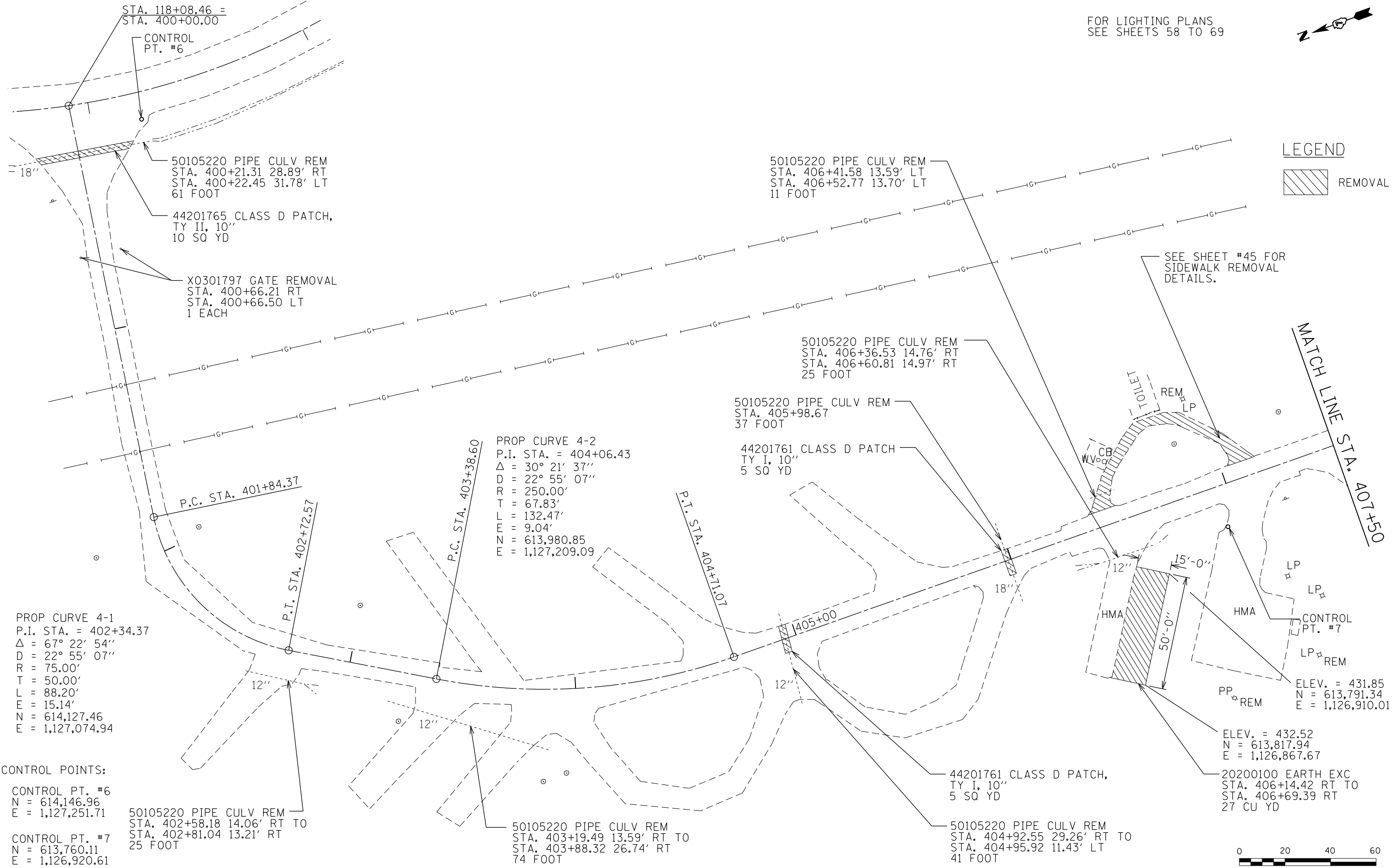
|                                   |                             |                   |           |   |  |                           |                    |         |        |              |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|--|---------------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.15.20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING SITE OFFICE PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                           | F.A. RTE.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |   |  |                           | PARK ROADS 2017-02 | WABASH  | 71     | 15           |           |
| Default                           | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - | SCALE: 1" = 20' SHEET 15 OF 71 SHEETS STA. TO STA.        |  | ILLINOIS FED. AID PROJECT |                    |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

FOR LIGHTING PLANS  
SEE SHEETS 58 TO 69



**LEGEND**



PROP CURVE 4-1  
P.I. STA. = 402+34.37  
Δ = 67° 22' 54"  
D = 22° 55' 07"  
R = 75.00'  
T = 50.00'  
L = 88.20'  
E = 15.14'  
N = 614,127.46  
E = 1,127,074.94

**CONTROL POINTS:**  
  
CONTROL PT. #6  
N = 614,146.96  
E = 1,127,251.71  
  
CONTROL PT. #7  
N = 613,760.11  
E = 1,126,920.61

PROP CURVE 4-2  
P.I. STA. = 404+06.43  
Δ = 30° 21' 37"  
D = 22° 55' 07"  
R = 250.00'  
T = 67.83'  
L = 132.47'  
E = 9.04'  
N = 613,980.85  
E = 1,127,209.09

50105220 PIPE CULV REM  
STA. 402+58.18 14.06' RT TO  
STA. 402+81.04 13.21' RT  
25 FOOT

50105220 PIPE CULV REM  
STA. 403+19.49 13.59' RT TO  
STA. 403+88.32 26.74' RT  
74 FOOT

50105220 PIPE CULV REM  
STA. 405+98.67  
37 FOOT

44201761 CLASS D PATCH  
TY I, 10"  
5 SQ YD

50105220 PIPE CULV REM  
STA. 406+41.58 13.59' LT  
STA. 406+52.77 13.70' LT  
11 FOOT

50105220 PIPE CULV REM  
STA. 406+36.53 14.76' RT  
STA. 406+60.81 14.97' RT  
25 FOOT

44201761 CLASS D PATCH,  
TY I, 10"  
5 SQ YD

50105220 PIPE CULV REM  
STA. 404+92.55 29.26' RT TO  
STA. 404+95.92 11.43' LT  
41 FOOT

ELEV. = 431.85  
N = 613,791.34  
E = 1,126,910.01

ELEV. = 432.52  
N = 613,817.94  
E = 1,126,867.67

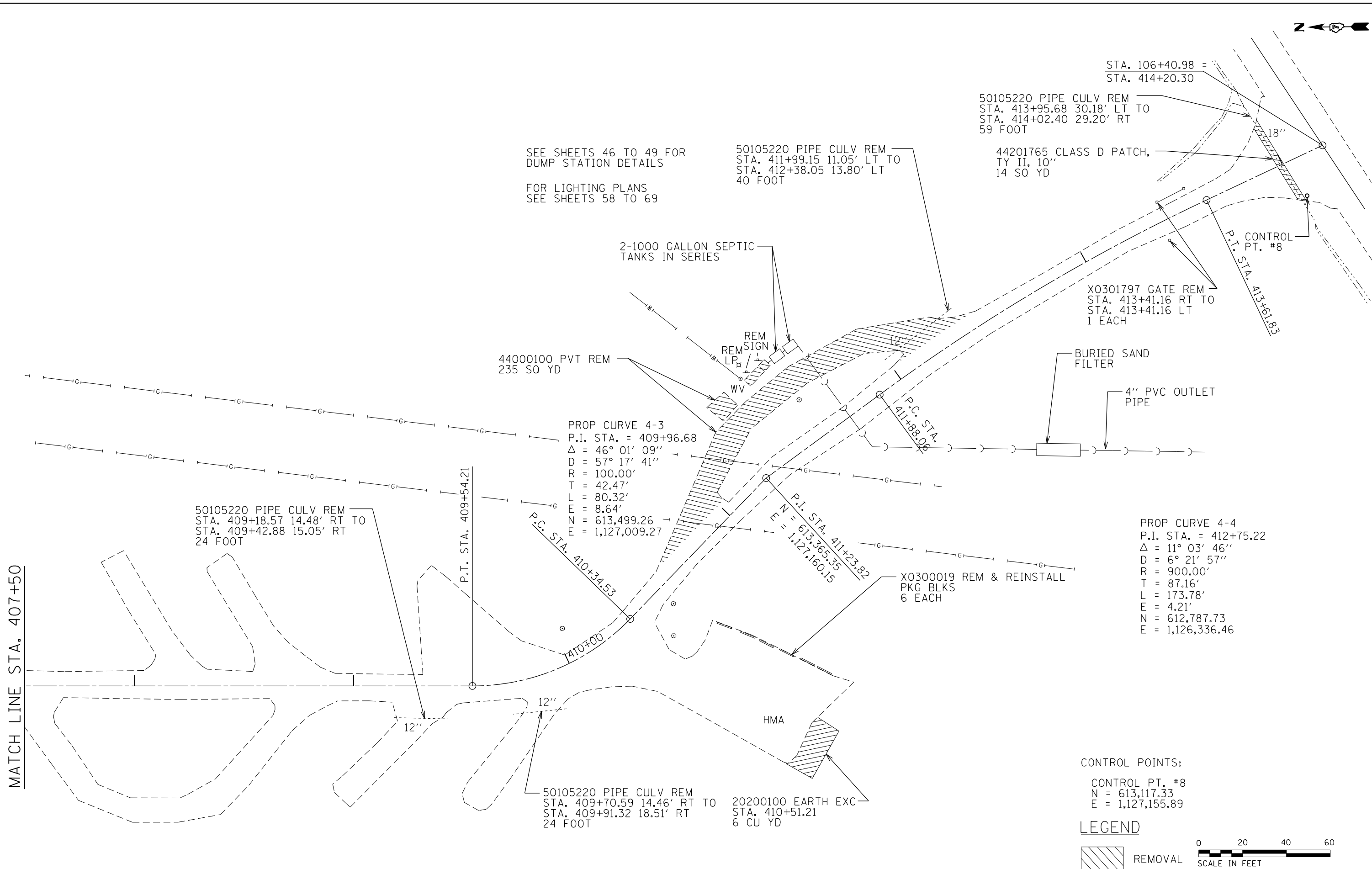
20200100 EARTH EXC  
STA. 406+14.42 RT TO  
STA. 406+69.39 RT  
27 CU YD



|                                   |                             |                   |           |   |   |                       |                                  |                    |        |                           |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|---|-----------------------|----------------------------------|--------------------|--------|---------------------------|-----------|
| FILE NAME =<br>sht.16.20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING CAMPGROUND PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE.                        | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |   |   |                       | PARK ROADS 2017-02               | WABASH             | 71     | 16                        |           |
| Default                           | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - | SCALE: 1" = 20'   |   | SHEET 16 OF 71 SHEETS | STA. 400+00.00 TO STA. 407+50.00 | CONTRACT NO. 46418 |        | ILLINOIS FED. AID PROJECT |           |

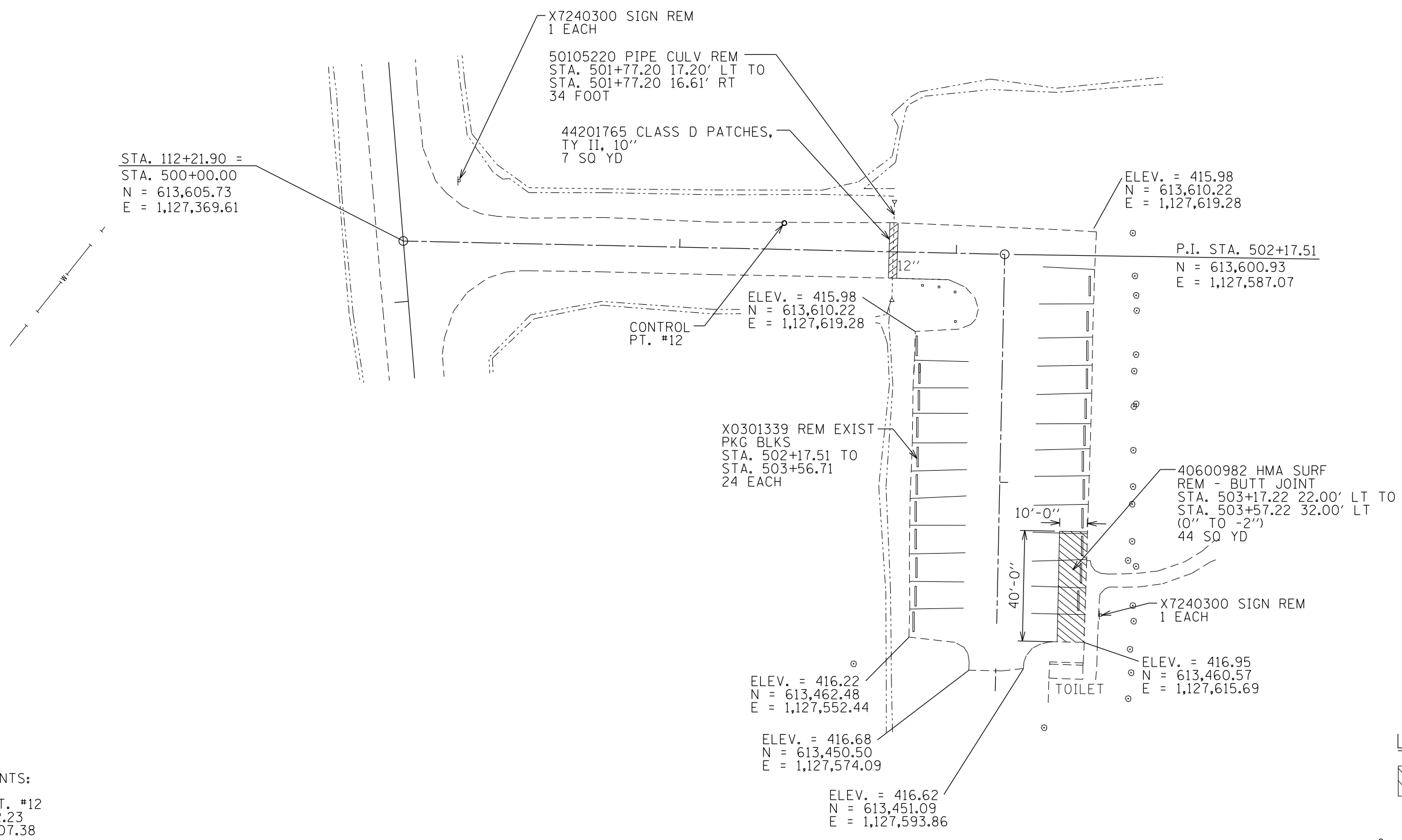
JOB NO. 250-141-E VASCONELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107





|                                   |                                |                      |           |   |   |                       |                                  |                    |         |        |              |           |
|-----------------------------------|--------------------------------|----------------------|-----------|---|---|-----------------------|----------------------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.17.20 Plan.dgn | USER NAME =<br>stevek          | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>EXISTING CAMPGROUND PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       |                                  | F.A. RTÉ.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                           | PLOT SCALE =<br>40.0000' / in. | CHECKED -<br>R.H.D.  | REVISED - |   | SCALE: 1" = 20'   | SHEET 17 OF 71 SHEETS | STA. 407+50.00 TO STA. 414+20.30 | PARK ROADS 2017-02 | WABASH  | 71     | 17           |           |
|                                   | PLOT DATE =<br>2/1/2017        | DATE -<br>2/3/17     | REVISED - |   | CONTRACT NO. 46418  |                       |                                  |                    |         |        |              |           |
| ILLINOIS FED. AID PROJECT         |                                |                      |           |   |   |                       |                                  |                    |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

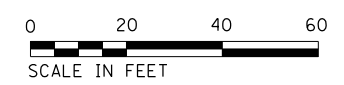


STA. 112+21.90 =  
 STA. 500+00.00  
 N = 613,605.73  
 E = 1,127,369.61

CONTROL POINTS:  
 CONTROL PT. #12  
 N = 613,612.23  
 E = 1,127,507.38

**LEGEND**

REMOVAL



|                                   |                                |                      |           |
|-----------------------------------|--------------------------------|----------------------|-----------|
| FILE NAME =<br>sht.18.20 Plan.dgn | USER NAME =<br>stevek          | DESIGNED -<br>R.H.D. | REVISED - |
| Default                           | PLOT SCALE =<br>40.0000' / in. | DRAWN -<br>B.T.M.    | REVISED - |
|                                   | PLOT DATE =<br>2/1/2017        | CHECKED -<br>R.H.D.  | REVISED - |
|                                   |                                | DATE -<br>2/3/17     | REVISED - |

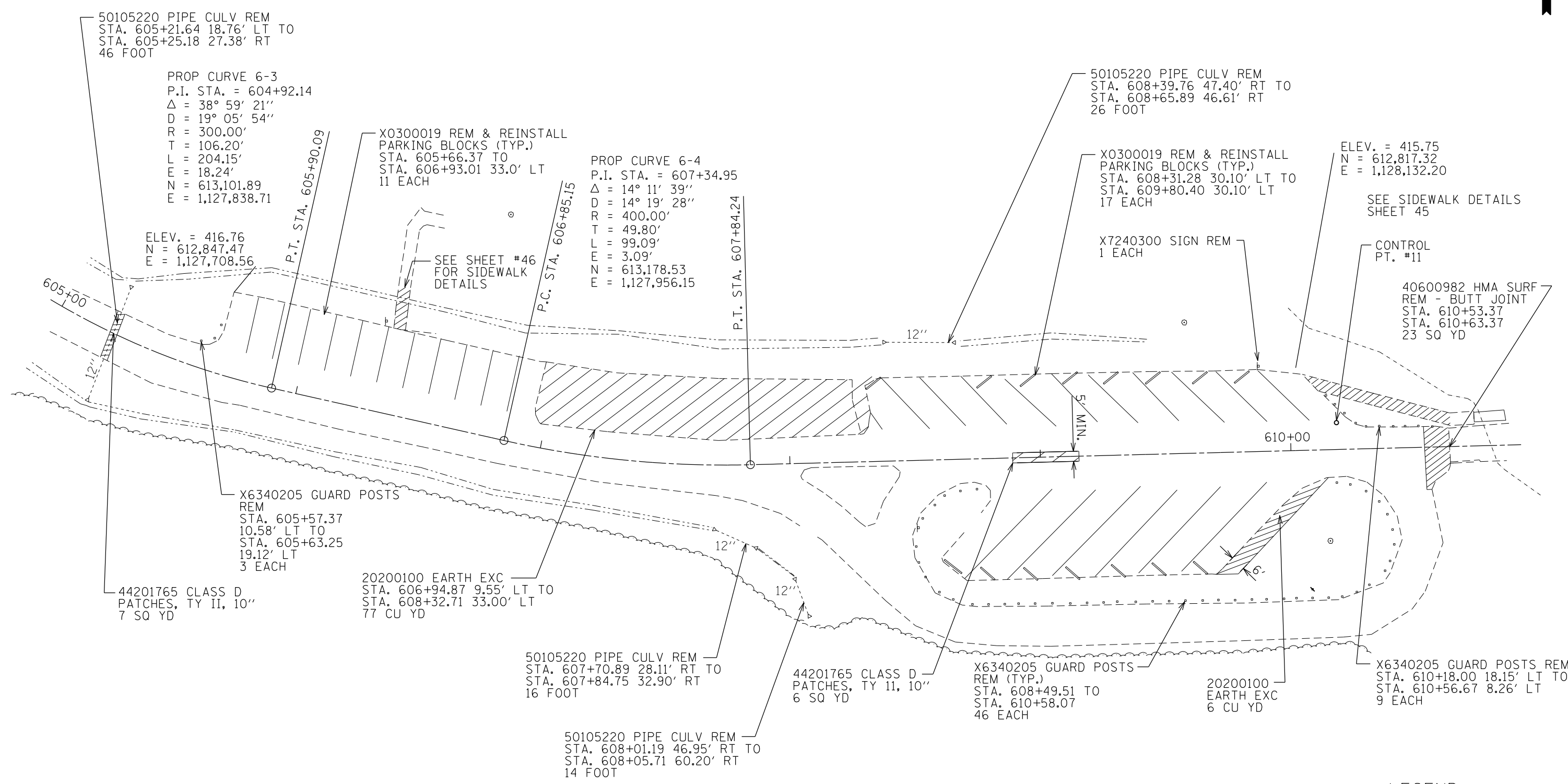
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING DAY USE PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

| F.A. RTE.          | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--------------------|--------------------|--------|---------------------------|-----------|
|                    | PARK ROADS 2017-02 | WABASH | 71                        | 18        |
| CONTRACT NO. 46418 |                    |        | ILLINOIS FED. AID PROJECT |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



50105220 PIPE CULV REM  
 STA. 605+21.64 18.76' LT TO  
 STA. 605+25.18 27.38' RT  
 46 FOOT

PROP CURVE 6-3  
 P.I. STA. = 604+92.14  
 $\Delta = 38^\circ 59' 21''$   
 $D = 19^\circ 05' 54''$   
 $R = 300.00'$   
 $T = 106.20'$   
 $L = 204.15'$   
 $E = 18.24'$   
 $N = 613,101.89$   
 $E = 1,127,838.71$

X0300019 REM & REINSTALL  
 PARKING BLOCKS (TYP.)  
 STA. 605+66.37 TO  
 STA. 606+93.01 33.0' LT  
 11 EACH

PROP CURVE 6-4  
 P.I. STA. = 607+34.95  
 $\Delta = 14^\circ 11' 39''$   
 $D = 14^\circ 19' 28''$   
 $R = 400.00'$   
 $T = 49.80'$   
 $L = 99.09'$   
 $E = 3.09'$   
 $N = 613,178.53$   
 $E = 1,127,956.15$

50105220 PIPE CULV REM  
 STA. 608+39.76 47.40' RT TO  
 STA. 608+65.89 46.61' RT  
 26 FOOT

X0300019 REM & REINSTALL  
 PARKING BLOCKS (TYP.)  
 STA. 608+31.28 30.10' LT TO  
 STA. 609+80.40 30.10' LT  
 17 EACH

ELEV. = 415.75  
 $N = 612,817.32$   
 $E = 1,128,132.20$

SEE SIDEWALK DETAILS  
 SHEET 45

ELEV. = 416.76  
 $N = 612,847.47$   
 $E = 1,127,708.56$

SEE SHEET #46  
 FOR SIDEWALK  
 DETAILS

X7240300 SIGN REM  
 1 EACH

CONTROL  
 PT. #11

40600982 HMA SURF  
 REM - BUTT JOINT  
 STA. 610+53.37  
 STA. 610+63.37  
 23 SQ YD

X6340205 GUARD POSTS  
 REM  
 STA. 605+57.37  
 10.58' LT TO  
 STA. 605+63.25  
 19.12' LT  
 3 EACH

44201765 CLASS D  
 PATCHES, TY II, 10''  
 7 SQ YD

20200100 EARTH EXC  
 STA. 606+94.87 9.55' LT TO  
 STA. 608+32.71 33.00' LT  
 77 CU YD

50105220 PIPE CULV REM  
 STA. 607+70.89 28.11' RT TO  
 STA. 607+84.75 32.90' RT  
 16 FOOT

44201765 CLASS D  
 PATCHES, TY II, 10''  
 6 SQ YD

X6340205 GUARD POSTS  
 REM (TYP.)  
 STA. 608+49.51 TO  
 STA. 610+58.07  
 46 EACH

20200100  
 EARTH EXC  
 6 CU YD

X6340205 GUARD POSTS REM  
 STA. 610+18.00 18.15' LT TO  
 STA. 610+56.67 8.26' LT  
 9 EACH

50105220 PIPE CULV REM  
 STA. 608+01.19 46.95' RT TO  
 STA. 608+05.71 60.20' RT  
 14 FOOT

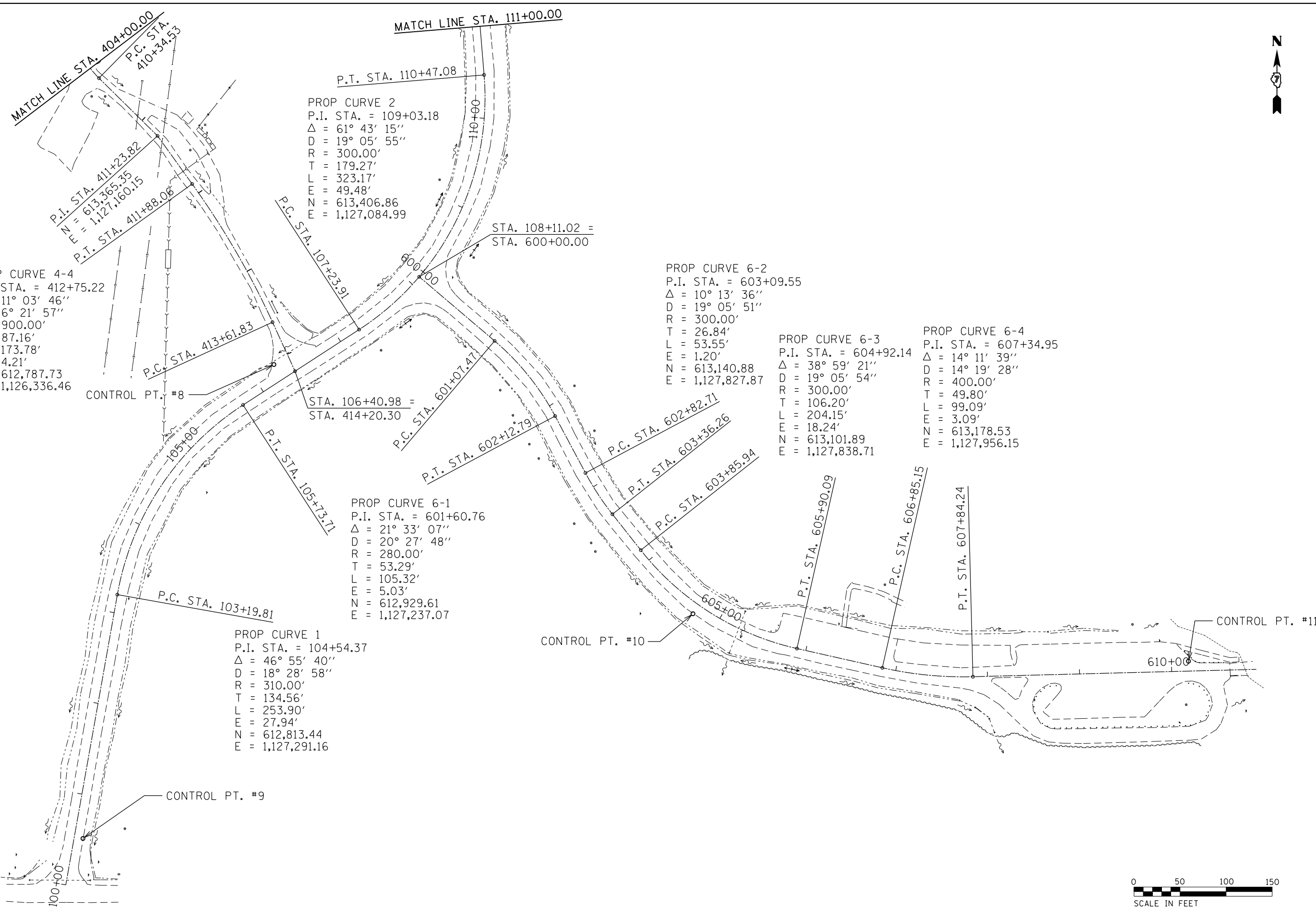
CONTROL POINTS:  
 CONTROL PT. #11  
 $N = 612,795.44$   
 $E = 1,128,148.46$

**LEGEND**



|                                   |                             |                   |           |   |   |                       |                                  |                    |        |              |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|---|-----------------------|----------------------------------|--------------------|--------|--------------|-----------|
| FILE NAME =<br>sht_19_20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>BOAT RAMP PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE.                        | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |   |   |                       | PARK ROADS 2017-02               | WABASH             | 71     | 19           |           |
| Default                           | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - | SCALE: 1" = 20'   |   | SHEET 19 OF 71 SHEETS | STA. 605+00.00 TO STA. 610+80.00 | CONTRACT NO. 46418 |        |              |           |
| ILLINOIS FED. AID PROJECT         |                             |                   |           |   |   |                       |                                  |                    |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 4-4  
 P.I. STA. = 412+75.22  
 $\Delta = 11^\circ 03' 46''$   
 $D = 6^\circ 21' 57''$   
 $R = 900.00'$   
 $T = 87.16'$   
 $L = 173.78'$   
 $E = 4.21'$   
 $N = 612,787.73$   
 $E = 1,126,336.46$

PROP CURVE 2  
 P.I. STA. = 109+03.18  
 $\Delta = 61^\circ 43' 15''$   
 $D = 19^\circ 05' 55''$   
 $R = 300.00'$   
 $T = 179.27'$   
 $L = 323.17'$   
 $E = 49.48'$   
 $N = 613,406.86$   
 $E = 1,127,084.99$

PROP CURVE 6-2  
 P.I. STA. = 603+09.55  
 $\Delta = 10^\circ 13' 36''$   
 $D = 19^\circ 05' 51''$   
 $R = 300.00'$   
 $T = 26.84'$   
 $L = 53.55'$   
 $E = 1.20'$   
 $N = 613,140.88$   
 $E = 1,127,827.87$

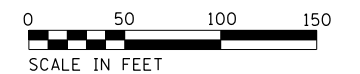
PROP CURVE 6-3  
 P.I. STA. = 604+92.14  
 $\Delta = 38^\circ 59' 21''$   
 $D = 19^\circ 05' 54''$   
 $R = 300.00'$   
 $T = 106.20'$   
 $L = 204.15'$   
 $E = 18.24'$   
 $N = 613,101.89$   
 $E = 1,127,838.71$

PROP CURVE 6-4  
 P.I. STA. = 607+34.95  
 $\Delta = 14^\circ 11' 39''$   
 $D = 14^\circ 19' 28''$   
 $R = 400.00'$   
 $T = 49.80'$   
 $L = 99.09'$   
 $E = 3.09'$   
 $N = 613,178.53$   
 $E = 1,127,956.15$

PROP CURVE 6-1  
 P.I. STA. = 601+60.76  
 $\Delta = 21^\circ 33' 07''$   
 $D = 20^\circ 27' 48''$   
 $R = 280.00'$   
 $T = 53.29'$   
 $L = 105.32'$   
 $E = 5.03'$   
 $N = 612,929.61$   
 $E = 1,127,237.07$

PROP CURVE 1  
 P.I. STA. = 104+54.37  
 $\Delta = 46^\circ 55' 40''$   
 $D = 18^\circ 28' 58''$   
 $R = 310.00'$   
 $T = 134.56'$   
 $L = 253.90'$   
 $E = 27.94'$   
 $N = 612,813.44$   
 $E = 1,127,291.16$

CONTROL POINTS:  
 CONTROL PT. #8  
 $N = 613,117.33$   
 $E = 1,127,155.89$   
 CONTROL PT. #9  
 $N = 612,603.18$   
 $E = 1,126,948.57$   
 CONTROL PT. #10  
 $N = 612,846.97$   
 $E = 1,127,610.72$   
 CONTROL PT. #11  
 $N = 612,795.44$   
 $E = 1,128,148.46$



|                                   |                              |                   |           |   |  |                       |                                  |                           |        |              |           |
|-----------------------------------|------------------------------|-------------------|-----------|---|--|-----------------------|----------------------------------|---------------------------|--------|--------------|-----------|
| FILE NAME =<br>sht.20_50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE SHEET - SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE.                        | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                           | PLOT SCALE = 100.0000' / in. | DRAWN - B.T.M.    | REVISED - |   | SCALE: 1" = 50'  | SHEET 20 OF 71 SHEETS | STA. 100+00.00 TO STA. 111+00.00 | PARK ROADS 2017-02        | WABASH | 71           | 20        |
|                                   | PLOT DATE = 2/1/2017         | CHECKED - R.H.D.  | REVISED - |   |  |                       |                                  | CONTRACT NO. 46418        |        |              |           |
|                                   |                              | DATE - 2/3/17     | REVISED - |   |  |                       |                                  | ILLINOIS FED. AID PROJECT |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 4-1  
 P.I. STA. = 402+34.37  
 $\Delta = 67^\circ 22' 54''$   
 $D = 22^\circ 55' 07''$   
 $R = 75.00'$   
 $T = 50.00'$   
 $L = 88.20'$   
 $E = 15.14'$   
 $N = 614,127.46$   
 $E = 1,127,074.94$

PROP CURVE 4  
 P.I. STA. = 114+77.87  
 $\Delta = 57^\circ 14' 43''$   
 $D = 17^\circ 37' 47''$   
 $R = 325.00'$   
 $T = 177.36'$   
 $L = 324.71'$   
 $E = 45.25'$   
 $N = 614,109.53$   
 $E = 1,127,586.57$

PROP CURVE 4-2  
 P.I. STA. = 404+06.43  
 $\Delta = 30^\circ 21' 37''$   
 $D = 22^\circ 55' 07''$   
 $R = 250.00'$   
 $T = 67.83'$   
 $L = 132.47'$   
 $E = 9.04'$   
 $N = 613,980.85$   
 $E = 1,127,209.09$

PROP CURVE 3  
 P.I. STA. = 114+77.87  
 $\Delta = 22^\circ 18' 56''$   
 $D = 14^\circ 19' 27''$   
 $R = 400.00'$   
 $T = 78.90'$   
 $L = 155.79'$   
 $E = 7.71'$   
 $N = 613,749.35$   
 $E = 1,126,956.42$

PROP CURVE 4-3  
 P.I. STA. = 409+96.68  
 $\Delta = 46^\circ 01' 09''$   
 $D = 57^\circ 17' 41''$   
 $R = 100.00'$   
 $T = 42.47'$   
 $L = 80.32'$   
 $E = 8.64'$   
 $N = 613,499.26$   
 $E = 1,127,009.27$

CONTROL PT. #7

CONTROL POINTS:  
 CONTROL PT. #6  
 $N = 614,146.96$   
 $E = 1,127,251.71$   
 CONTROL PT. #7  
 $N = 613,760.11$   
 $E = 1,126,920.61$   
 CONTROL PT. #12  
 $N = 613,612.23$   
 $E = 1,127,507.38$



FILE NAME =  
 sht.21.50 Plan.dgn  
 Default

USER NAME = stevek  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 2/1/2017

DESIGNED - R.H.D.  
 DRAWN - B.T.M.  
 CHECKED - R.H.D.  
 DATE - 2/3/17

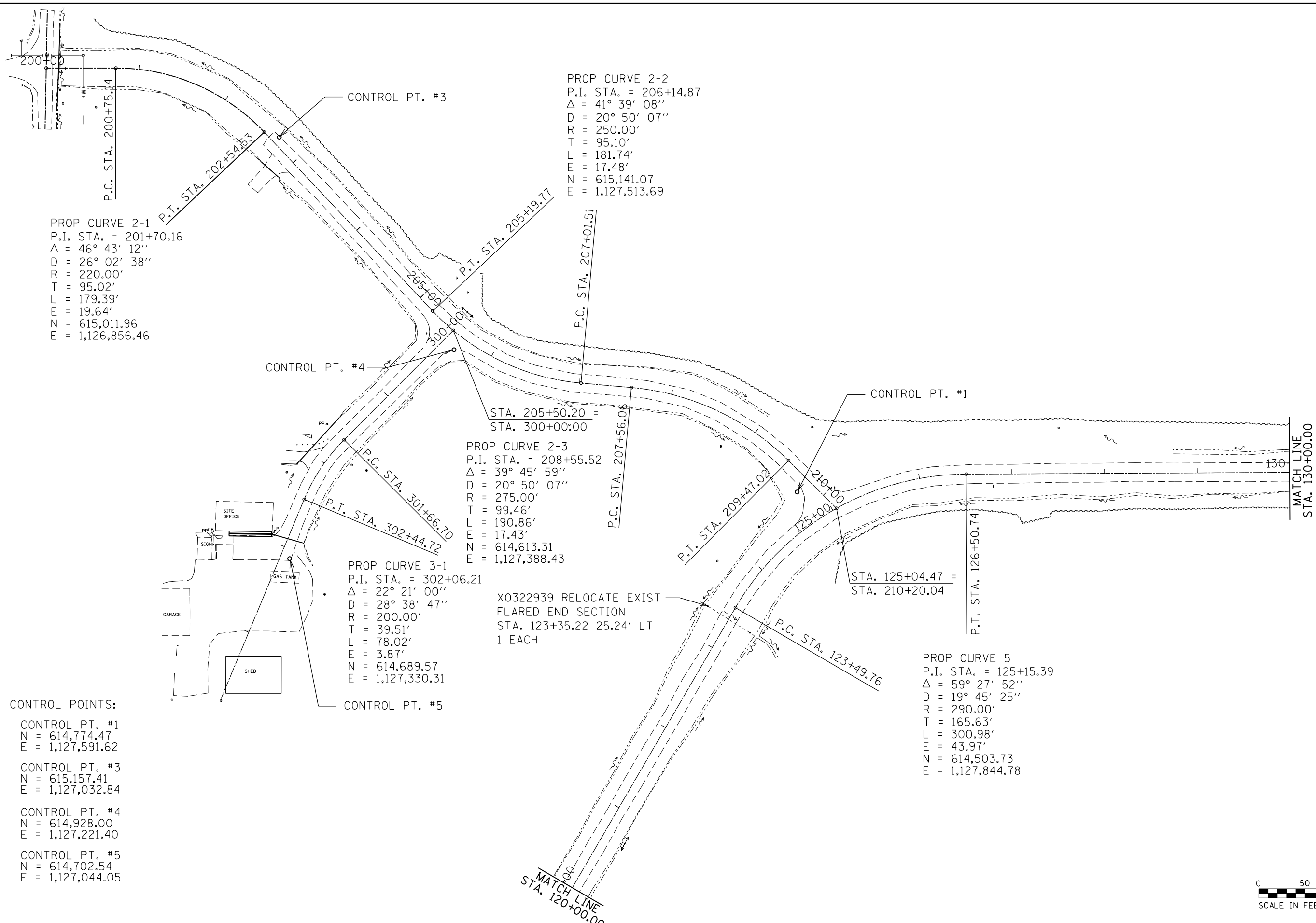
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SHEET - SITE LAYOUT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE  
 SCALE: 1" = 50' SHEET 21 OF 71 SHEETS STA. 111+00.00 TO STA. 120+00.00

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------|--------|--------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71           | 21        |
| CONTRACT NO. 46418        |                    |        |              |           |
| ILLINOIS FED. AID PROJECT |                    |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 2-1  
 P.I. STA. = 201+70.16  
 $\Delta = 46^\circ 43' 12''$   
 $D = 26^\circ 02' 38''$   
 $R = 220.00'$   
 $T = 95.02'$   
 $L = 179.39'$   
 $E = 19.64'$   
 $N = 615,011.96$   
 $E = 1,126,856.46$

PROP CURVE 2-2  
 P.I. STA. = 206+14.87  
 $\Delta = 41^\circ 39' 08''$   
 $D = 20^\circ 50' 07''$   
 $R = 250.00'$   
 $T = 95.10'$   
 $L = 181.74'$   
 $E = 17.48'$   
 $N = 615,141.07$   
 $E = 1,127,513.69$

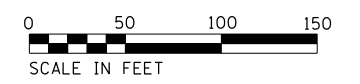
PROP CURVE 2-3  
 P.I. STA. = 208+55.52  
 $\Delta = 39^\circ 45' 59''$   
 $D = 20^\circ 50' 07''$   
 $R = 275.00'$   
 $T = 99.46'$   
 $L = 190.86'$   
 $E = 17.43'$   
 $N = 614,613.31$   
 $E = 1,127,388.43$

PROP CURVE 3-1  
 P.I. STA. = 302+06.21  
 $\Delta = 22^\circ 21' 00''$   
 $D = 28^\circ 38' 47''$   
 $R = 200.00'$   
 $T = 39.51'$   
 $L = 78.02'$   
 $E = 3.87'$   
 $N = 614,689.57$   
 $E = 1,127,330.31$

PROP CURVE 5  
 P.I. STA. = 125+15.39  
 $\Delta = 59^\circ 27' 52''$   
 $D = 19^\circ 45' 25''$   
 $R = 290.00'$   
 $T = 165.63'$   
 $L = 300.98'$   
 $E = 43.97'$   
 $N = 614,503.73$   
 $E = 1,127,844.78$

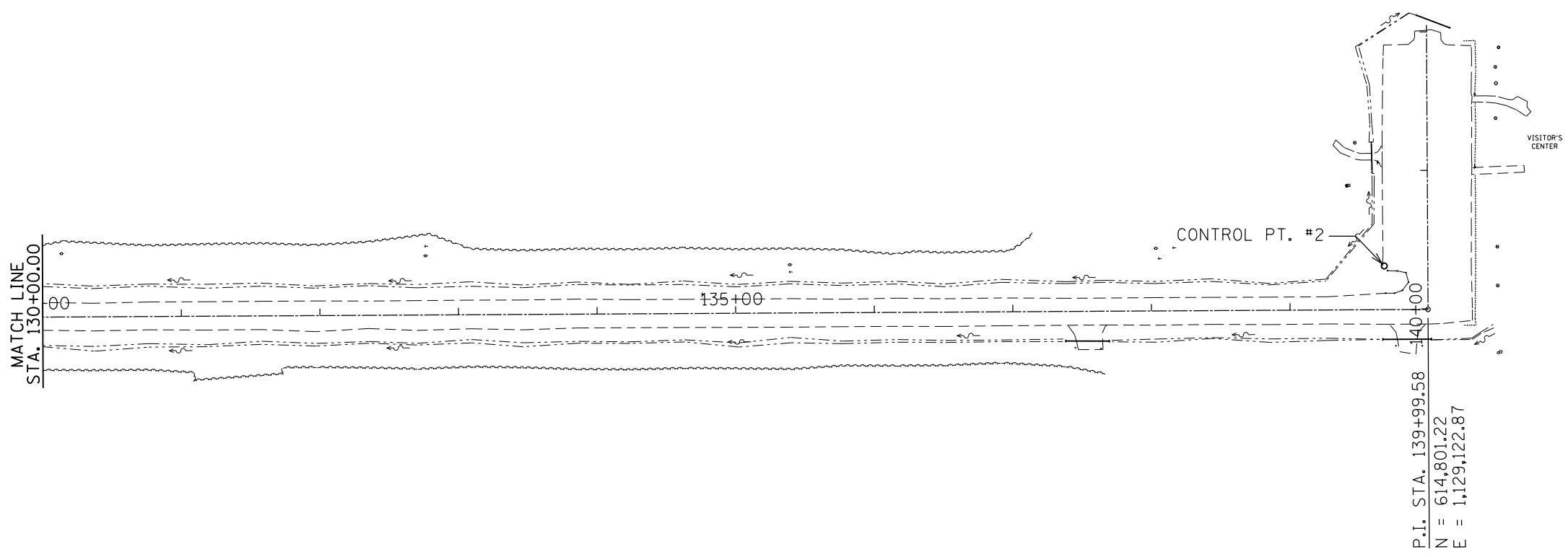
X0322939 RELOCATE EXIST  
 FLARED END SECTION  
 STA. 123+35.22 25.24' LT  
 1 EACH

CONTROL POINTS:  
 CONTROL PT. #1  
 $N = 614,774.47$   
 $E = 1,127,591.62$   
 CONTROL PT. #3  
 $N = 615,157.41$   
 $E = 1,127,032.84$   
 CONTROL PT. #4  
 $N = 614,928.00$   
 $E = 1,127,221.40$   
 CONTROL PT. #5  
 $N = 614,702.54$   
 $E = 1,127,044.05$

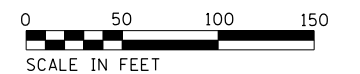


|                                   |                              |                   |           |   |  |                       |                                  |                    |        |              |           |
|-----------------------------------|------------------------------|-------------------|-----------|---|--|-----------------------|----------------------------------|--------------------|--------|--------------|-----------|
| FILE NAME =<br>sht.22_50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE SHEET - SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE.                        | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                   | PLOT SCALE = 100.0000' / in. | CHECKED - R.H.D.  | REVISED - |   |  |                       | PARK ROADS 2017-02               | WABASH             | 71     | 22           |           |
| Default                           | PLOT DATE = 2/1/2017         | DATE - 1/25/17    | REVISED - | SCALE: 1" = 50'   |  | SHEET 22 OF 71 SHEETS | STA. 120+00.00 TO STA. 130+00.00 | CONTRACT NO. 46418 |        |              |           |
| ILLINOIS FED. AID PROJECT         |                              |                   |           |   |  |                       |                                  |                    |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



CONTROL POINTS:  
 CONTROL PT. #2  
 N = 614,832.61  
 E = 1,129,091.30



|                                   |                              |                   |           |
|-----------------------------------|------------------------------|-------------------|-----------|
| FILE NAME =<br>sht_23_50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - |
| Default                           | PLOT SCALE = 100.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/1/2017         | CHECKED - R.H.D.  | REVISED - |
|                                   |                              | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

| DRAINAGE SHEET - SITE LAYOUT               |                       |
|--|-----------------------|
| BEALL WOODS STATE PARK AND NATURE PRESERVE |                       |
| SCALE: 1" = 50'                            | SHEET 23 OF 71 SHEETS |
| STA. 130+00.00 TO STA. 142+04.93           |                       |

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 23        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



542C0220 PIPE CULV, CL C  
 TY 1, 15"  
 STA. 142+11.65 6.29' LT TO  
 STA. 142+03.12 15.91' RT  
 24 FOOT  
 54213450 END SECTIONS, 15"  
 2 EACH  
 USFL = 435.44 +15.91  
 DSFL = 435.25 +6.29

542C0217 PIPE CULV, CL C,  
 TY 1, 12"  
 STA. 141+00.09 39.88' LT TO  
 STA. 141+19.48 40.20' LT  
 20 FOOT  
 54213447 END SECTIONS, 12"  
 2 EACH  
 USFL = 435.97 +00.09  
 DSFL = 435.79 +19.48

542C0220 PIPE CULV, CL C,  
 TY 1, 15"  
 STA. 139+68.16 21.47' RT TO  
 STA. 139+99.58 21.58' RT  
 33 FOOT  
 54213450 END SECTIONS, 15"  
 2 EACH  
 USFL = 436.44 +99.58  
 DSFL = 436.14 +68.16

542C0220 PIPE CULV, CL C,  
 TY 1, 15"  
 STA. 137+39.41 21.38' RT TO  
 STA. 137+68.34 21.62' RT  
 29 FOOT  
 54213450 END SECTIONS, 15"  
 2 EACH  
 USFL = 434.07 +68.34  
 DSFL = 433.48 +39.41

VISITOR'S  
 CENTER

P.I. STA. 139+99.58  
 N = 614,801.22  
 E = 1,129,122.87



|                                   |                             |                   |           |
|-----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_24_20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                           | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |
|                                   |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SHEET - VISITORS CENTER PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 20' SHEET 24 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 24        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



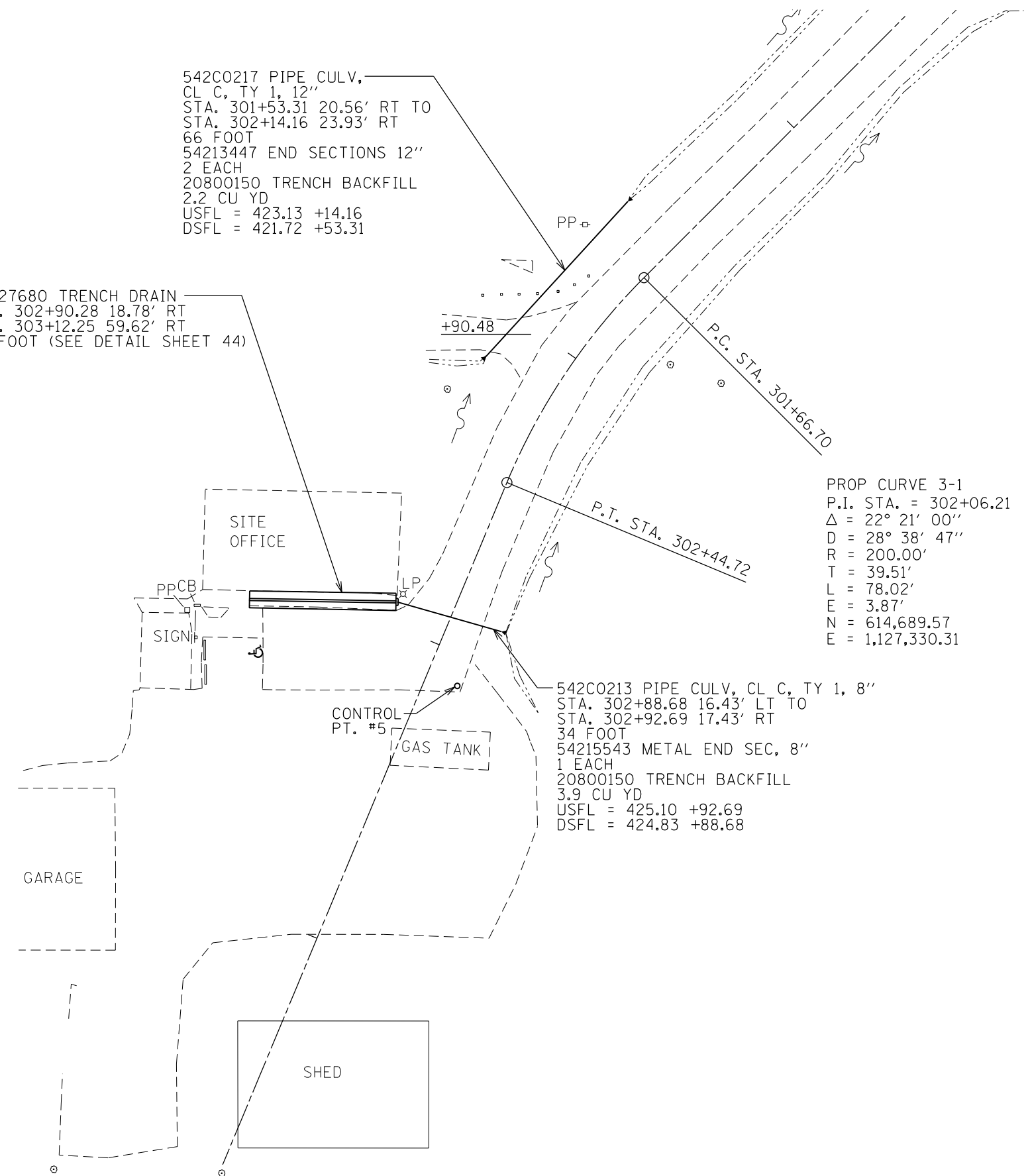


542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 301+53.31 20.56' RT TO  
STA. 302+14.16 23.93' RT  
66 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
2.2 CU YD  
USFL = 423.13 +14.16  
DSFL = 421.72 +53.31

X0327680 TRENCH DRAIN  
STA. 302+90.28 18.78' RT  
STA. 303+12.25 59.62' RT  
46 FOOT (SEE DETAIL SHEET 44)

PROP CURVE 3-1  
P.I. STA. = 302+06.21  
 $\Delta = 22^\circ 21' 00''$   
D = 28° 38' 47"  
R = 200.00'  
T = 39.51'  
L = 78.02'  
E = 3.87'  
N = 614,689.57  
E = 1,127,330.31

542C0213 PIPE CULV, CL C, TY 1, 8"  
STA. 302+88.68 16.43' LT TO  
STA. 302+92.69 17.43' RT  
34 FOOT  
54215543 METAL END SEC, 8"  
1 EACH  
20800150 TRENCH BACKFILL  
3.9 CU YD  
USFL = 425.10 +92.69  
DSFL = 424.83 +88.68



CONTROL POINTS:  
CONTROL PT. #5  
N = 614,702.54  
E = 1,127,044.05

LEGEND



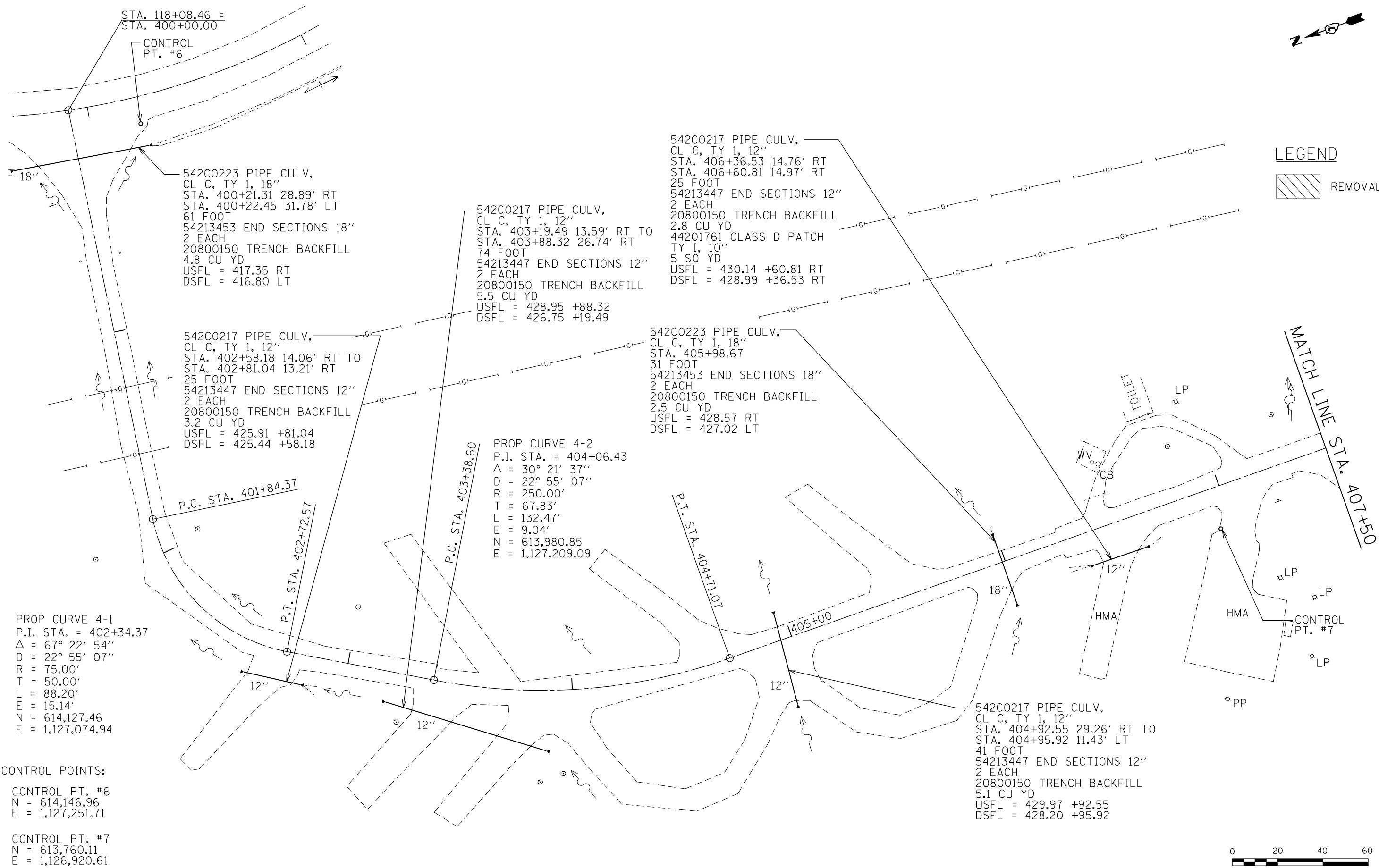
|                                   |                             |                   |           |   |  |   |         |        |              |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|--|---|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.25.20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE SHEET - SITE OFFICE PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTE.                                       | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |   |  | PARK ROADS 2017-02                              | WABASH  | 71     | 25           |           |
| Default                           | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - | SCALE: 1" = 20' SHEET 25 OF 71 SHEETS STA. TO STA.        |  | CONTRACT NO. 46418<br>ILLINOIS FED. AID PROJECT |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



**LEGEND**

 REMOVAL



STA. 118+08.46 =  
STA. 400+00.00

CONTROL  
PT. #6

542C0223 PIPE CULV,  
CL C, TY 1, 18"  
STA. 400+21.31 28.89' RT  
STA. 400+22.45 31.78' LT  
61 FOOT  
54213453 END SECTIONS 18"  
2 EACH  
20800150 TRENCH BACKFILL  
4.8 CU YD  
USFL = 417.35 RT  
DSFL = 416.80 LT

542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 403+19.49 13.59' RT TO  
STA. 403+88.32 26.74' RT  
74 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
5.5 CU YD  
USFL = 428.95 +88.32  
DSFL = 426.75 +19.49

542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 406+36.53 14.76' RT  
STA. 406+60.81 14.97' RT  
25 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
2.8 CU YD  
44201761 CLASS D PATCH  
TY 1, 10"  
5 SQ YD  
USFL = 430.14 +60.81 RT  
DSFL = 428.99 +36.53 RT

542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 402+58.18 14.06' RT TO  
STA. 402+81.04 13.21' RT  
25 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
3.2 CU YD  
USFL = 425.91 +81.04  
DSFL = 425.44 +58.18

542C0223 PIPE CULV,  
CL C, TY 1, 18"  
STA. 405+98.67  
31 FOOT  
54213453 END SECTIONS 18"  
2 EACH  
20800150 TRENCH BACKFILL  
2.5 CU YD  
USFL = 428.57 RT  
DSFL = 427.02 LT

PROP CURVE 4-2  
P.I. STA. = 404+06.43  
 $\Delta = 30^\circ 21' 37''$   
 $D = 22^\circ 55' 07''$   
 $R = 250.00'$   
 $T = 67.83'$   
 $L = 132.47'$   
 $E = 9.04'$   
 $N = 613,980.85$   
 $E = 1,127,209.09$

P.C. STA. 401+84.37

P.T. STA. 402+72.57

P.C. STA. 403+38.60

P.T. STA. 404+11.07

PROP CURVE 4-1  
P.I. STA. = 402+34.37  
 $\Delta = 67^\circ 22' 54''$   
 $D = 22^\circ 55' 07''$   
 $R = 75.00'$   
 $T = 50.00'$   
 $L = 88.20'$   
 $E = 15.14'$   
 $N = 614,127.46$   
 $E = 1,127,074.94$

CONTROL POINTS:

CONTROL PT. #6  
 $N = 614,146.96$   
 $E = 1,127,251.71$

CONTROL PT. #7  
 $N = 613,760.11$   
 $E = 1,126,920.61$



|                                   |                                |                      |           |   |   |                    |                       |                                  |                           |                    |
|-----------------------------------|--------------------------------|----------------------|-----------|---|---|--------------------|-----------------------|----------------------------------|---------------------------|--------------------|
| FILE NAME =<br>sht.26.20 Plan.dgn | USER NAME =<br>stevek          | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE SHEET - CAMPGROUND PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTÉ.          | SECTION               | COUNTY                           | TOTAL SHEETS              | SHEET NO.          |
| Default                           | PLOT SCALE =<br>40.0000' / in. | DRAWN -<br>B.T.M.    | REVISED - |   |   | PARK ROADS 2017-02 | WABASH                | 71                               | 26                        | CONTRACT NO. 46418 |
|                                   | PLOT DATE =<br>2/1/2017        | CHECKED -<br>R.H.D.  | REVISED - |   |   |                    |                       |                                  |                           |                    |
|                                   |                                | DATE -<br>2/3/17     | REVISED - |   |   | SCALE: 1" = 20'    | SHEET 26 OF 71 SHEETS | STA. 400+00.00 TO STA. 407+50.00 | ILLINOIS FED. AID PROJECT |                    |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

STA. 106+40.98 =  
STA. 414+20.30



542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 412+49.97 20.39' LT TO  
STA. 412+71.72 35.38' LT  
27 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
2.8 CU YD  
USFL = 416.07 +44.74  
DSFL = 415.83 +90.48

542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 409+18.57 14.48' RT TO  
STA. 409+42.88 15.05' RT  
24 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
2.8 CU YD  
USFL = 421.94 +18.48  
DSFL = 421.27 +42.88

PROP CURVE 4-3  
P.I. STA. = 409+96.68  
 $\Delta = 46^\circ 01' 09''$   
D = 57° 17' 41"  
R = 100.00'  
T = 42.47'  
L = 80.32'  
E = 8.64'  
N = 613,499.26  
E = 1,127,009.27

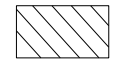
PROP CURVE 4-4  
P.I. STA. = 412+75.22  
 $\Delta = 11^\circ 03' 46''$   
D = 6° 21' 57"  
R = 900.00'  
T = 87.16'  
L = 173.78'  
E = 4.21'  
N = 612,787.73  
E = 1,126,336.46

542C0223 PIPE CULV,  
CL C, TY 1, 18"  
STA. 413+95.68 30.18' LT TO  
STA. 414+02.40 29.20' RT  
59 FOOT  
50105220 PIPE CULV REM  
59 FOOT  
54213453 END SECTIONS 18"  
2 EACH  
20800150 TRENCH BACKFILL  
4.8 CU YD  
USFL = 414.60 +95.68  
DSFL = 413.78 +02.40

542C0217 PIPE CULV,  
CL C, TY 1, 12"  
STA. 409+70.59 14.46' RT TO  
STA. 409+91.32 18.51' RT  
24 FOOT  
54213447 END SECTIONS 12"  
2 EACH  
20800150 TRENCH BACKFILL  
2.8 CU YD  
USFL = 421.94 +70.59  
DSFL = 421.27 +91.32

CONTROL POINTS:  
CONTROL PT. #8  
N = 613,117.33  
E = 1,127,155.89

**LEGEND**



REMOVAL



MATCH LINE STA. 407+50

FILE NAME =  
sht\_27\_20 Plan.dgn  
Default

USER NAME = stevek  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 2/1/2017

DESIGNED - R.H.D.  
DRAWN - B.T.M.  
CHECKED - R.H.D.  
DATE - 2/3/17

REVISED -  
REVISED -  
REVISED -  
REVISED -

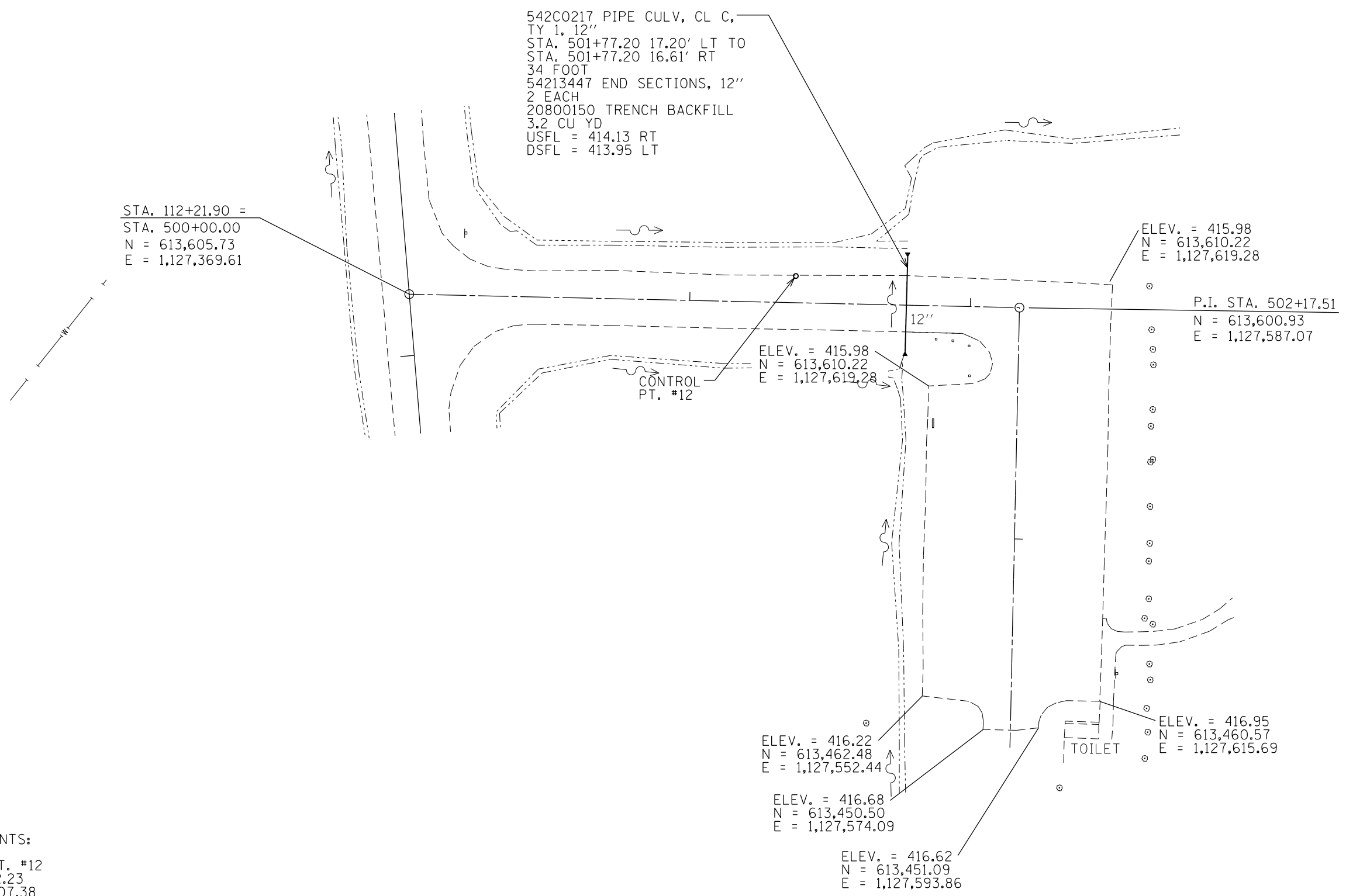
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLANS - CAMPGROUND PARKING LOT  
BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 20' SHEET 27 OF 71 SHEETS STA. 407+50.00 TO STA. 414+20.30

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 27        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



STA. 112+21.90 =  
 STA. 500+00.00  
 N = 613,605.73  
 E = 1,127,369.61

542C0217 PIPE CULV, CL C,  
 TY 1, 12"  
 STA. 501+77.20 17.20' LT TO  
 STA. 501+77.20 16.61' RT  
 34 FOOT  
 54213447 END SECTIONS, 12"  
 2 EACH  
 20800150 TRENCH BACKFILL  
 3.2 CU YD  
 USFL = 414.13 RT  
 DSFL = 413.95 LT

ELEV. = 415.98  
 N = 613,610.22  
 E = 1,127,619.28

P.I. STA. 502+17.51  
 N = 613,600.93  
 E = 1,127,587.07

ELEV. = 415.98  
 N = 613,610.22  
 E = 1,127,619.28

CONTROL  
 PT. #12

ELEV. = 416.22  
 N = 613,462.48  
 E = 1,127,552.44

ELEV. = 416.68  
 N = 613,450.50  
 E = 1,127,574.09

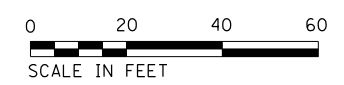
ELEV. = 416.62  
 N = 613,451.09  
 E = 1,127,593.86

ELEV. = 416.95  
 N = 613,460.57  
 E = 1,127,615.69

TOILET

CONTROL POINTS:  
 CONTROL PT. #12  
 N = 613,612.23  
 E = 1,127,507.38

**LEGEND**



|                                   |                             |                   |           |
|-----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht.28.20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                           | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |
|                                   |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SHEETS - DAY USE PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: 1" = 20' SHEET 28 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 28        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 6-3  
 P.I. STA. = 604+92.14  
 $\Delta = 38^\circ 59' 21''$   
 $D = 19^\circ 05' 54''$   
 $R = 300.00'$   
 $T = 106.20'$   
 $L = 204.15'$   
 $E = 18.24'$   
 $N = 613,101.89$   
 $E = 1,127,838.71$

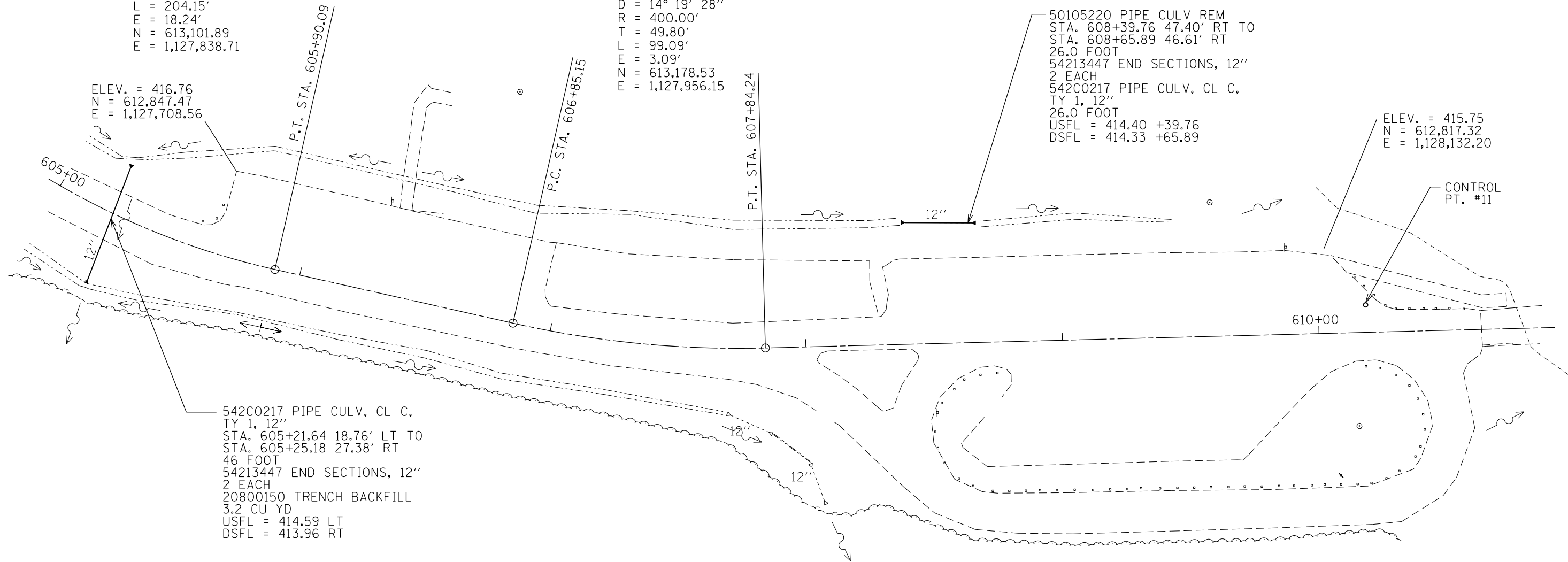
PROP CURVE 6-4  
 P.I. STA. = 607+34.95  
 $\Delta = 14^\circ 11' 39''$   
 $D = 14^\circ 19' 28''$   
 $R = 400.00'$   
 $T = 49.80'$   
 $L = 99.09'$   
 $E = 3.09'$   
 $N = 613,178.53$   
 $E = 1,127,956.15$

50105220 PIPE CULV REM  
 STA. 608+39.76 47.40' RT TO  
 STA. 608+65.89 46.61' RT  
 26.0 FOOT  
 54213447 END SECTIONS, 12"  
 2 EACH  
 542C0217 PIPE CULV, CL C,  
 TY 1, 12"  
 26.0 FOOT  
 USFL = 414.40 +39.76  
 DSFL = 414.33 +65.89

ELEV. = 415.75  
 $N = 612,817.32$   
 $E = 1,128,132.20$

ELEV. = 416.76  
 $N = 612,847.47$   
 $E = 1,127,708.56$

CONTROL  
 PT. #11

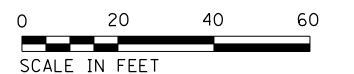


542C0217 PIPE CULV, CL C,  
 TY 1, 12"  
 STA. 605+21.64 18.76' LT TO  
 STA. 605+25.18 27.38' RT  
 46 FOOT  
 54213447 END SECTIONS, 12"  
 2 EACH  
 20800150 TRENCH BACKFILL  
 3.2 CU YD  
 USFL = 414.59 LT  
 DSFL = 413.96 RT

CONTROL POINTS:

CONTROL PT. #11  
 $N = 612,795.44$   
 $E = 1,128,148.46$

LEGEND



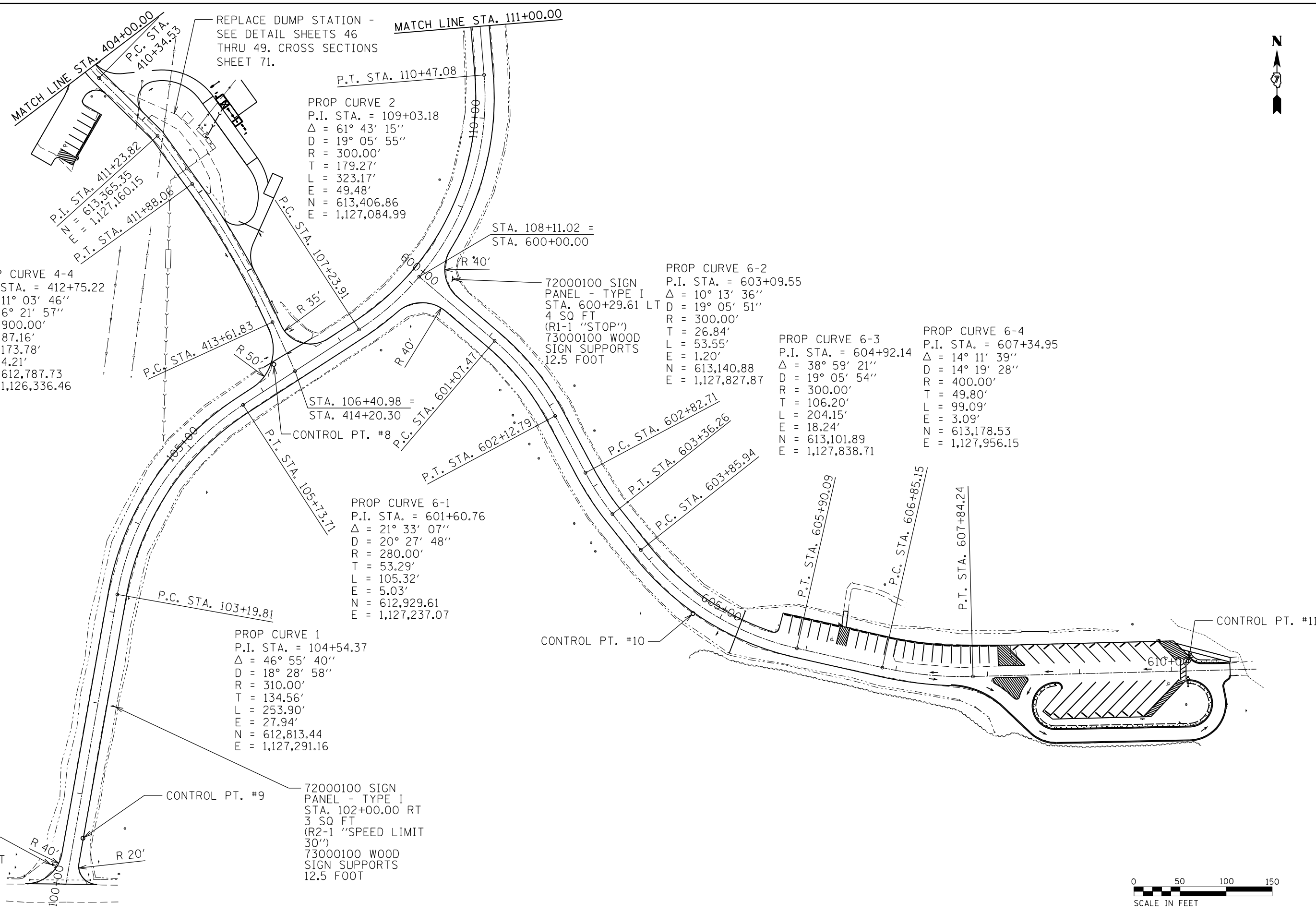
|                                   |                             |                   |           |
|-----------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht.29_20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                           |                             | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |
|                                   | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BOAT RAMP PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE

SCALE: 1" = 20' SHEET 29 OF 71 SHEETS STA. 605+00.00 TO STA. 610+80.00

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 29        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



PROP CURVE 4-4  
 P.I. STA. = 412+75.22  
 Δ = 11° 03' 46"  
 D = 6° 21' 57"  
 R = 900.00'  
 T = 87.16'  
 L = 173.78'  
 E = 4.21'  
 N = 612,787.73  
 E = 1,126,336.46

PROP CURVE 2  
 P.I. STA. = 109+03.18  
 Δ = 61° 43' 15"  
 D = 19° 05' 55"  
 R = 300.00'  
 T = 179.27'  
 L = 323.17'  
 E = 49.48'  
 N = 613,406.86  
 E = 1,127,084.99

PROP CURVE 6-2  
 P.I. STA. = 603+09.55  
 Δ = 10° 13' 36"  
 D = 19° 05' 51"  
 R = 300.00'  
 T = 26.84'  
 L = 53.55'  
 E = 1.20'  
 N = 613,140.88  
 E = 1,127,827.87

PROP CURVE 6-3  
 P.I. STA. = 604+92.14  
 Δ = 38° 59' 21"  
 D = 19° 05' 54"  
 R = 300.00'  
 T = 106.20'  
 L = 204.15'  
 E = 18.24'  
 N = 613,101.89  
 E = 1,127,838.71

PROP CURVE 6-4  
 P.I. STA. = 607+34.95  
 Δ = 14° 11' 39"  
 D = 14° 19' 28"  
 R = 400.00'  
 T = 49.80'  
 L = 99.09'  
 E = 3.09'  
 N = 613,178.53  
 E = 1,127,956.15

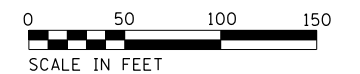
PROP CURVE 6-1  
 P.I. STA. = 601+60.76  
 Δ = 21° 33' 07"  
 D = 20° 27' 48"  
 R = 280.00'  
 T = 53.29'  
 L = 105.32'  
 E = 5.03'  
 N = 612,929.61  
 E = 1,127,237.07

PROP CURVE 1  
 P.I. STA. = 104+54.37  
 Δ = 46° 55' 40"  
 D = 18° 28' 58"  
 R = 310.00'  
 T = 134.56'  
 L = 253.90'  
 E = 27.94'  
 N = 612,813.44  
 E = 1,127,291.16

CONTROL POINTS:  
 CONTROL PT. #8  
 N = 613,117.33  
 E = 1,127,155.89  
 CONTROL PT. #9  
 N = 612,603.18  
 E = 1,126,948.57  
 CONTROL PT. #10  
 N = 612,846.97  
 E = 1,127,610.72  
 CONTROL PT. #11  
 N = 612,795.44  
 E = 1,128,148.46

72000100 SIGN  
 PANEL - TYPE I  
 STA. 100+19.57 LT  
 4 SQ FT  
 (R1-1 "STOP")  
 73000100 WOOD  
 SIGN SUPPORTS  
 12.5 FOOT

72000100 SIGN  
 PANEL - TYPE I  
 STA. 102+00.00 RT  
 3 SQ FT  
 (R2-1 "SPEED LIMIT  
 30")  
 73000100 WOOD  
 SIGN SUPPORTS  
 12.5 FOOT



|  |                              |                   |           |  |  |  |   |                    |         |        |              |           |
|--|------------------------------|-------------------|-----------|--|--|--|---|--------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.30_50 Plan.dgn<br>Default | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b>              | <b>PROPOSED SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |  |   | F.A. RTE.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|  | PLOT SCALE = 100.0000' / in. | CHECKED - R.H.D.  | REVISED - |  |  |  |   | PARK ROADS 2017-02 | WABASH  | 71     | 30           |           |
| PLOT DATE = 2/1/2017                         | DATE - 2/3/17                | REVISED -         | REVISED - | SCALE: 1" = 50' SHEET 30 OF 71 SHEETS STA. 100+00.00 TO STA. 111+00.00 |  |  | CONTRACT NO. 46418<br>ILLINOIS FED. AID PROJECT |                    |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 4-1  
 P.I. STA. = 402+34.37  
 $\Delta = 67^\circ 22' 54''$   
 $D = 22^\circ 55' 07''$   
 $R = 75.00'$   
 $T = 50.00'$   
 $L = 88.20'$   
 $E = 15.14'$   
 $N = 614,127.46$   
 $E = 1,127,074.94$

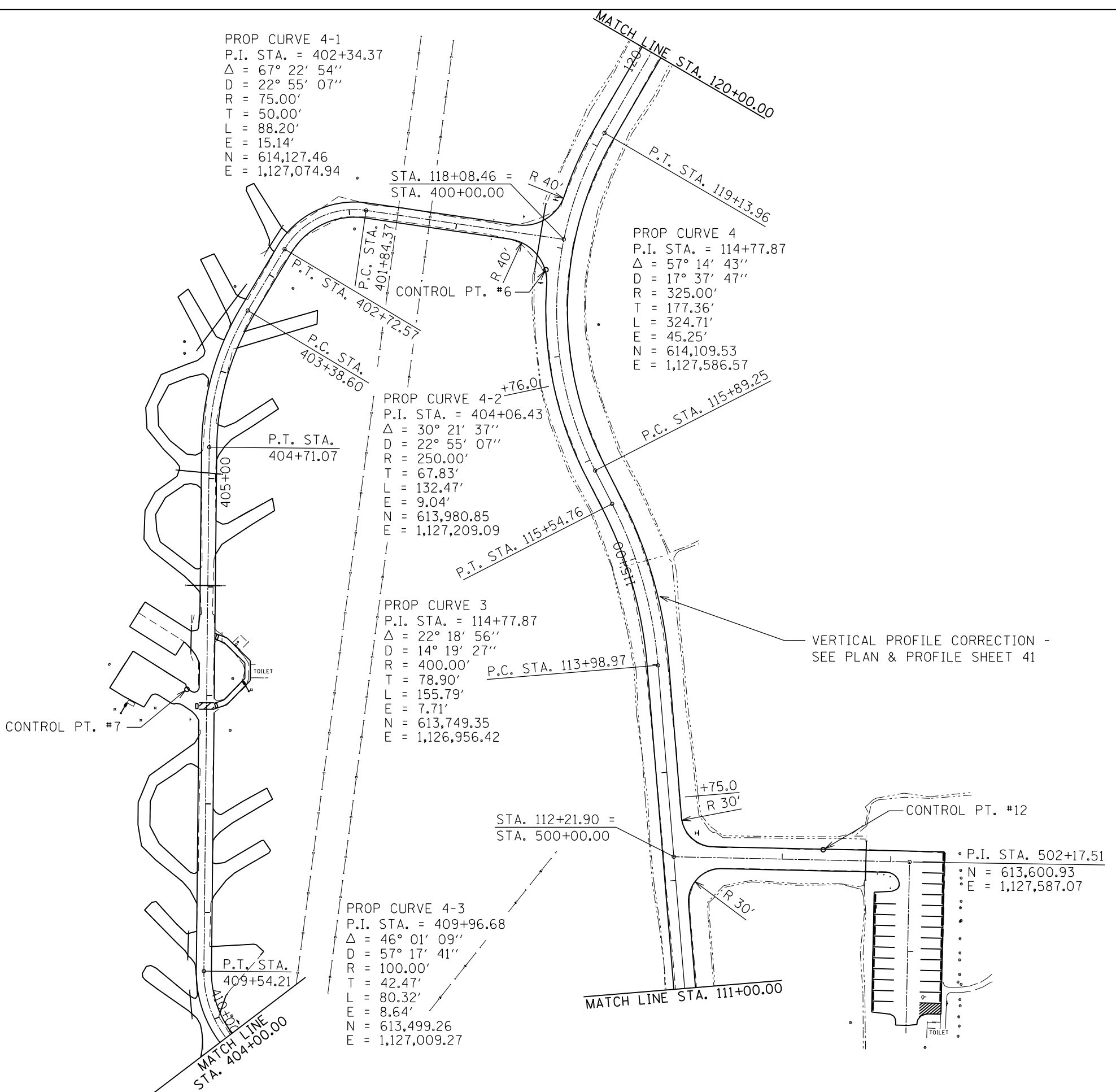
PROP CURVE 4  
 P.I. STA. = 114+77.87  
 $\Delta = 57^\circ 14' 43''$   
 $D = 17^\circ 37' 47''$   
 $R = 325.00'$   
 $T = 177.36'$   
 $L = 324.71'$   
 $E = 45.25'$   
 $N = 614,109.53$   
 $E = 1,127,586.57$

PROP CURVE 4-2  
 P.I. STA. = 404+06.43  
 $\Delta = 30^\circ 21' 37''$   
 $D = 22^\circ 55' 07''$   
 $R = 250.00'$   
 $T = 67.83'$   
 $L = 132.47'$   
 $E = 9.04'$   
 $N = 613,980.85$   
 $E = 1,127,209.09$

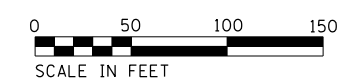
PROP CURVE 3  
 P.I. STA. = 114+77.87  
 $\Delta = 22^\circ 18' 56''$   
 $D = 14^\circ 19' 27''$   
 $R = 400.00'$   
 $T = 78.90'$   
 $L = 155.79'$   
 $E = 7.71'$   
 $N = 613,749.35$   
 $E = 1,126,956.42$

PROP CURVE 4-3  
 P.I. STA. = 409+96.68  
 $\Delta = 46^\circ 01' 09''$   
 $D = 57^\circ 17' 41''$   
 $R = 100.00'$   
 $T = 42.47'$   
 $L = 80.32'$   
 $E = 8.64'$   
 $N = 613,499.26$   
 $E = 1,127,009.27$

VERTICAL PROFILE CORRECTION -  
 SEE PLAN & PROFILE SHEET 41

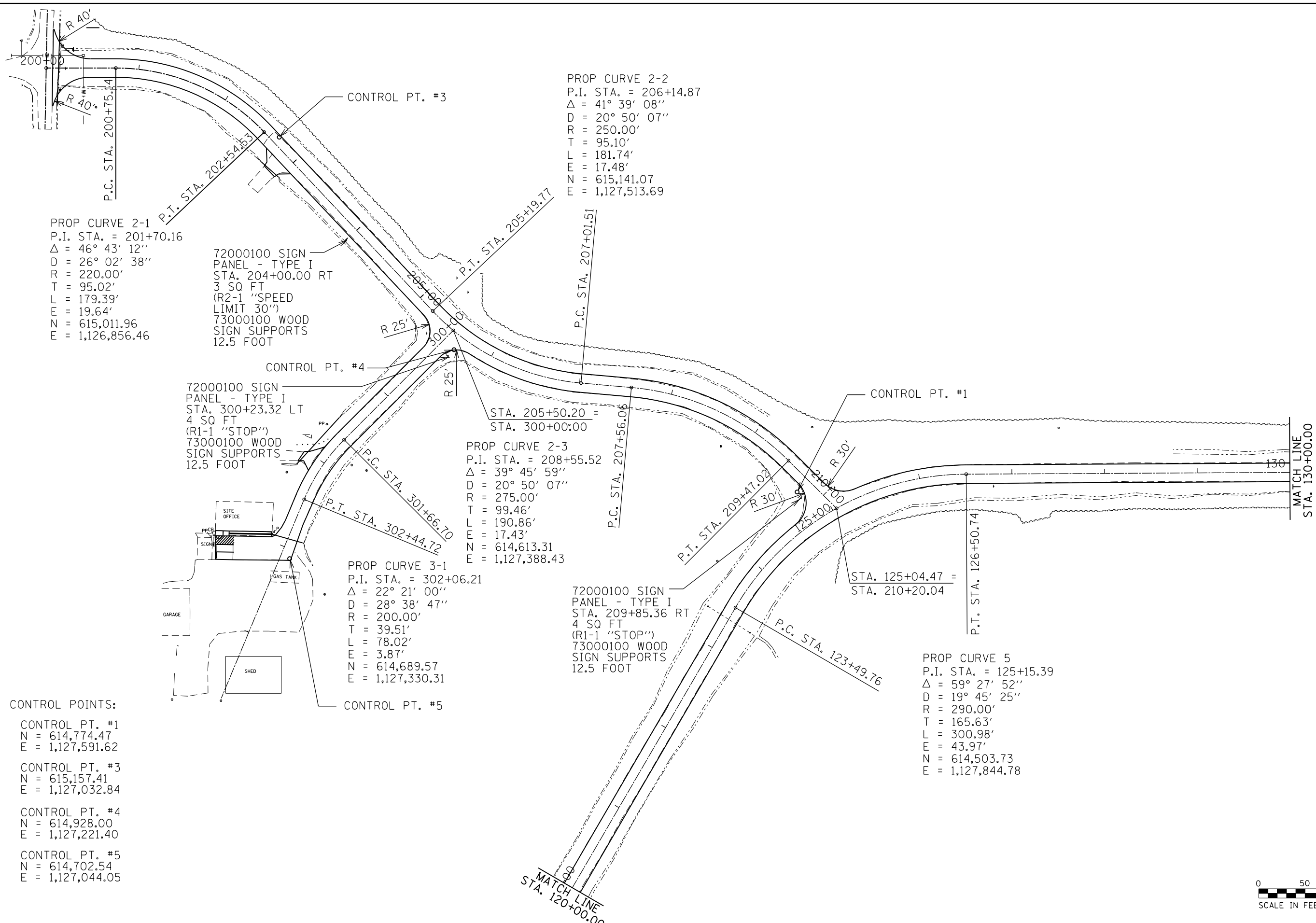


CONTROL POINTS:  
 CONTROL PT. #6  
 $N = 614,146.96$   
 $E = 1,127,251.71$   
 CONTROL PT. #7  
 $N = 613,760.11$   
 $E = 1,126,920.61$   
 CONTROL PT. #12  
 $N = 613,612.23$   
 $E = 1,127,507.38$



|                                   |                              |                   |           |  |  |  |                           |                    |         |        |              |           |
|-----------------------------------|------------------------------|-------------------|-----------|--|--|--|---------------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.31.50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b>              | <b>PROPOSED SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |  |                           | F.A. RTE.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                   | PLOT SCALE = 100.0000' / in. | CHECKED - R.H.D.  | REVISED - |  |  |  |                           | PARK ROADS 2017-02 | WABASH  | 71     | 31           |           |
| Default                           | PLOT DATE = 2/1/2017         | DATE - 2/3/17     | REVISED - | SCALE: 1" = 50' SHEET 31 OF 71 SHEETS STA. 111+00.00 TO STA. 120+00.00 |  |  | ILLINOIS FED. AID PROJECT |                    |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PROP CURVE 2-1  
 P.I. STA. = 201+70.16  
 Δ = 46° 43' 12"  
 D = 26° 02' 38"  
 R = 220.00'  
 T = 95.02'  
 L = 179.39'  
 E = 19.64'  
 N = 615,011.96  
 E = 1,126,856.46

PROP CURVE 2-2  
 P.I. STA. = 206+14.87  
 Δ = 41° 39' 08"  
 D = 20° 50' 07"  
 R = 250.00'  
 T = 95.10'  
 L = 181.74'  
 E = 17.48'  
 N = 615,141.07  
 E = 1,127,513.69

72000100 SIGN  
 PANEL - TYPE I  
 STA. 204+00.00 RT  
 3 SQ FT  
 (R2-1 "SPEED  
 LIMIT 30")  
 73000100 WOOD  
 SIGN SUPPORTS  
 12.5 FOOT

72000100 SIGN  
 PANEL - TYPE I  
 STA. 300+23.32 LT  
 4 SQ FT  
 (R1-1 "STOP")  
 73000100 WOOD  
 SIGN SUPPORTS  
 12.5 FOOT

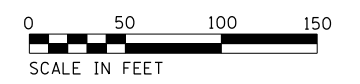
PROP CURVE 2-3  
 P.I. STA. = 208+55.52  
 Δ = 39° 45' 59"  
 D = 20° 50' 07"  
 R = 275.00'  
 T = 99.46'  
 L = 190.86'  
 E = 17.43'  
 N = 614,613.31  
 E = 1,127,388.43

PROP CURVE 3-1  
 P.I. STA. = 302+06.21  
 Δ = 22° 21' 00"  
 D = 28° 38' 47"  
 R = 200.00'  
 T = 39.51'  
 L = 78.02'  
 E = 3.87'  
 N = 614,689.57  
 E = 1,127,330.31

72000100 SIGN  
 PANEL - TYPE I  
 STA. 209+85.36 RT  
 4 SQ FT  
 (R1-1 "STOP")  
 73000100 WOOD  
 SIGN SUPPORTS  
 12.5 FOOT

PROP CURVE 5  
 P.I. STA. = 125+15.39  
 Δ = 59° 27' 52"  
 D = 19° 45' 25"  
 R = 290.00'  
 T = 165.63'  
 L = 300.98'  
 E = 43.97'  
 N = 614,503.73  
 E = 1,127,844.78

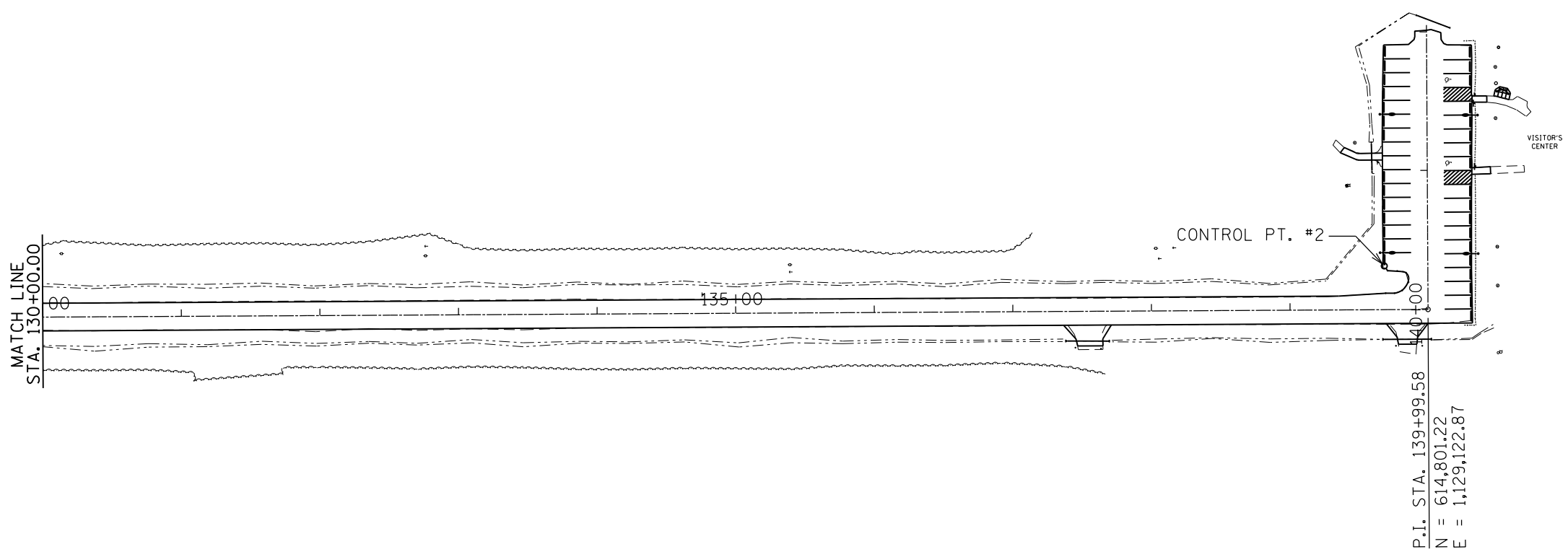
CONTROL POINTS:  
 CONTROL PT. #1  
 N = 614,774.47  
 E = 1,127,591.62  
 CONTROL PT. #3  
 N = 615,157.41  
 E = 1,127,032.84  
 CONTROL PT. #4  
 N = 614,928.00  
 E = 1,127,221.40  
 CONTROL PT. #5  
 N = 614,702.54  
 E = 1,127,044.05



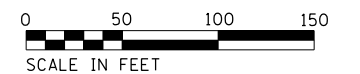
|                                   |                              |                   |           |   |   |                       |                                  |                    |         |        |              |           |
|-----------------------------------|------------------------------|-------------------|-----------|---|---|-----------------------|----------------------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht.32_50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SITE LAYOUT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       |                                  | F.A. RTE.          | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                           | PLOT SCALE = 100.0000' / in. | CHECKED - R.H.D.  | REVISED - |   | SCALE: 1" = 50'   | SHEET 32 OF 71 SHEETS | STA. 120+00.00 TO STA. 130+00.00 | PARK ROADS 2017-02 | WABASH  | 71     | 32           |           |
|                                   | PLOT DATE = 2/1/2017         | DATE - 2/3/17     | REVISED - |   |   |                       |                                  | CONTRACT NO. 46418 |         |        |              |           |
|                                   |                              |                   |           |   |   |                       | ILLINOIS FED. AID PROJECT        |                    |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107





CONTROL POINTS:  
 CONTROL PT. #2  
 N = 614,832.61  
 E = 1,129,091.30



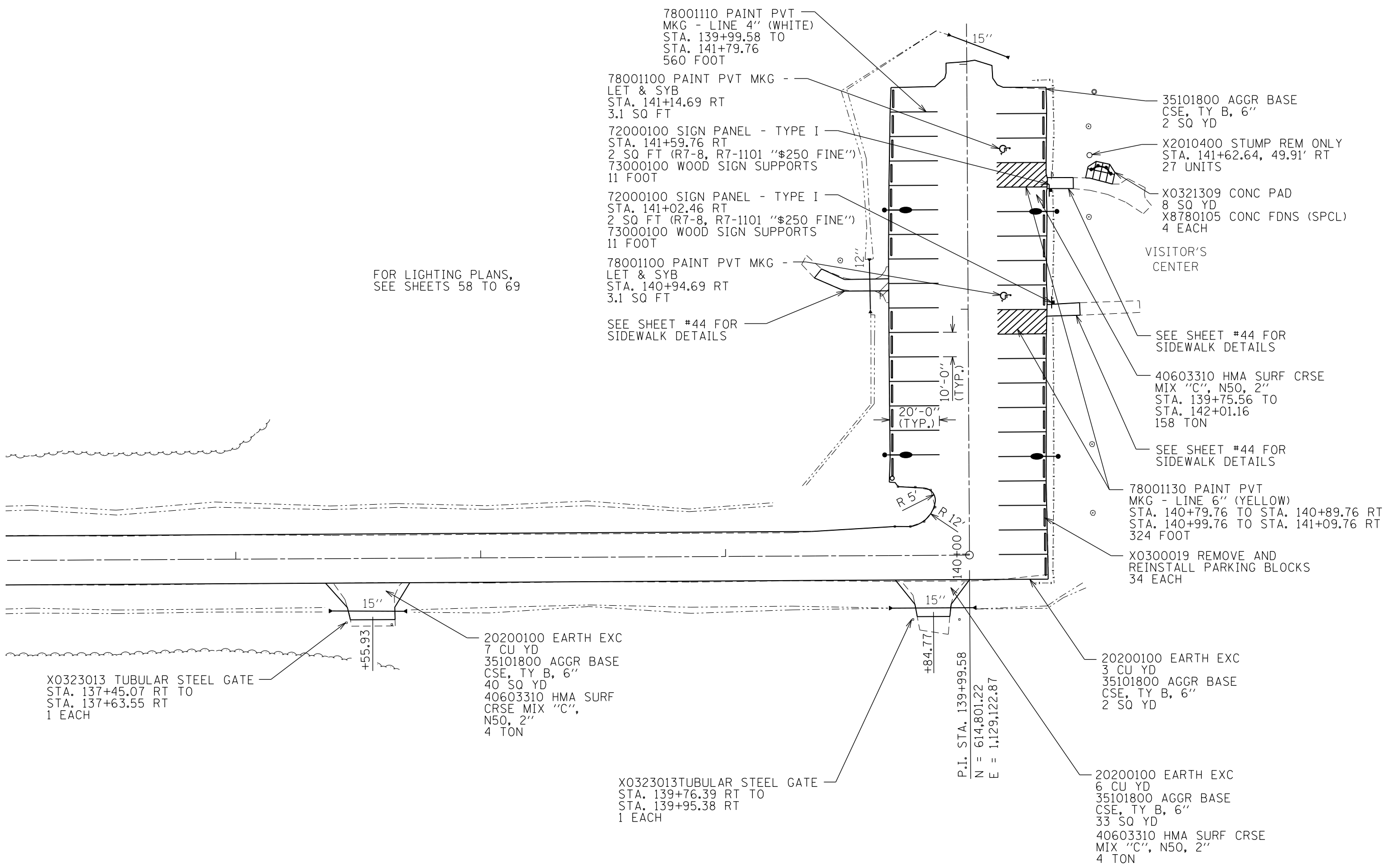
|                                   |                              |                   |           |
|-----------------------------------|------------------------------|-------------------|-----------|
| FILE NAME =<br>sht_33_50 Plan.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - |
| Default                           | PLOT SCALE = 100.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/1/2017         | CHECKED - R.H.D.  | REVISED - |
|                                   |                              | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|   |                       |                                  |  |
|---|-----------------------|----------------------------------|--|
| <b>SITE LAYOUT</b>                                |                       |                                  |  |
| <b>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       |                                  |  |
| SCALE: 1" = 50'                                   | SHEET 33 OF 71 SHEETS | STA. 130+00.00 TO STA. 142+04.93 |  |

|                           |                    |        |                           |           |
|---------------------------|--------------------|--------|---------------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                        | 33        |
|                           |                    |        | <b>CONTRACT NO. 46418</b> |           |
| ILLINOIS FED. AID PROJECT |                    |        |                           |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



FOR LIGHTING PLANS,  
SEE SHEETS 58 TO 69

SEE SHEET #44 FOR  
SIDEWALK DETAILS

SEE SHEET #44 FOR  
SIDEWALK DETAILS

SEE SHEET #44 FOR  
SIDEWALK DETAILS



|                                   |                                |                      |           |
|-----------------------------------|--------------------------------|----------------------|-----------|
| FILE NAME =<br>sht_34_20 Plan.dgn | USER NAME =<br>stevek          | DESIGNED -<br>R.H.D. | REVISED - |
| Default                           | PLOT SCALE =<br>40.0000' / in. | DRAWN -<br>B.T.M.    | REVISED - |
|                                   | PLOT DATE =<br>2/1/2017        | CHECKED -<br>R.H.D.  | REVISED - |
|                                   |                                | DATE -<br>2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED VISITORS CENTER PARKING LOT  
BEALL WOODS STATE PARK AND NATURE PRESERVE**

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTÉ.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 34        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

SCALE: 1" = 20' SHEET 34 OF 71 SHEETS STA. TO STA.

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



20200100 EARTH EXC  
5 CU YD  
35101800 AGGR BASE  
CSE, TY B, 6"  
31 SQ YD  
40603310 HMA SURF  
CRSE MIX "C",  
N50, 2"  
3 TON

78001100 PAINT PVT  
MKG - LET & SYB  
STA. 303+24.25 51.64' RT  
3.1 SQ FT

SEE SHEET #44 FOR  
SIDEWALK DETAILS

78001130 PAINT PVT  
MKG - LINE 6" (YELLOW)  
STA. 303+11.03 RT TO  
STA. 303+33.78 RT  
143 FOOT

72000100 SIGN PANEL - TYPE I  
STA. 303+27.28, 71.59' RT  
2 SQ FT (R7-8, R7-1101 "\$250 FINE")  
73000100 WOOD SIGN SUPPORTS  
11 FOOT

X0300019 REM & REINSTALL  
PKG BLKS  
STA. 303+26.95 68.42' RT  
STA. 303+39.70 62.82 RT  
2 EACH

ELEV. = 427.00  
N = 614,701.80  
E = 1,126,963.83

40200100 AGGR SURF  
CSE, TYPE A  
VAR. LOCATIONS (TO BUILD  
UP AGGR ADJACENT  
TO RESURFACED PVT)  
7 TON

40603310 HMA SURF CRSE  
MIX "C", N50, 2"  
STA. 302+73.35 TO  
STA. 303+15.85  
31 TON

CONTROL POINTS:  
CONTROL PT. #5  
N = 614,702.54  
E = 1,127,044.05

PROP CURVE 3-1  
P.I. STA. = 302+06.21  
 $\Delta = 22^\circ 21' 00''$   
D = 28° 38' 47"  
R = 200.00'  
T = 39.51'  
L = 78.02'  
E = 3.87'  
N = 614,689.57  
E = 1,127,330.31

+90.48

P.C. STA. 301+66.70

P.T. STA. 302+44.72

SITE OFFICE

PPCB

SIGN

LP

CONTROL  
PT. #5

GAS TANK

ELEV. = 426.15  
N = 614,700.60  
E = 1,127,044.90

SHED

GARAGE

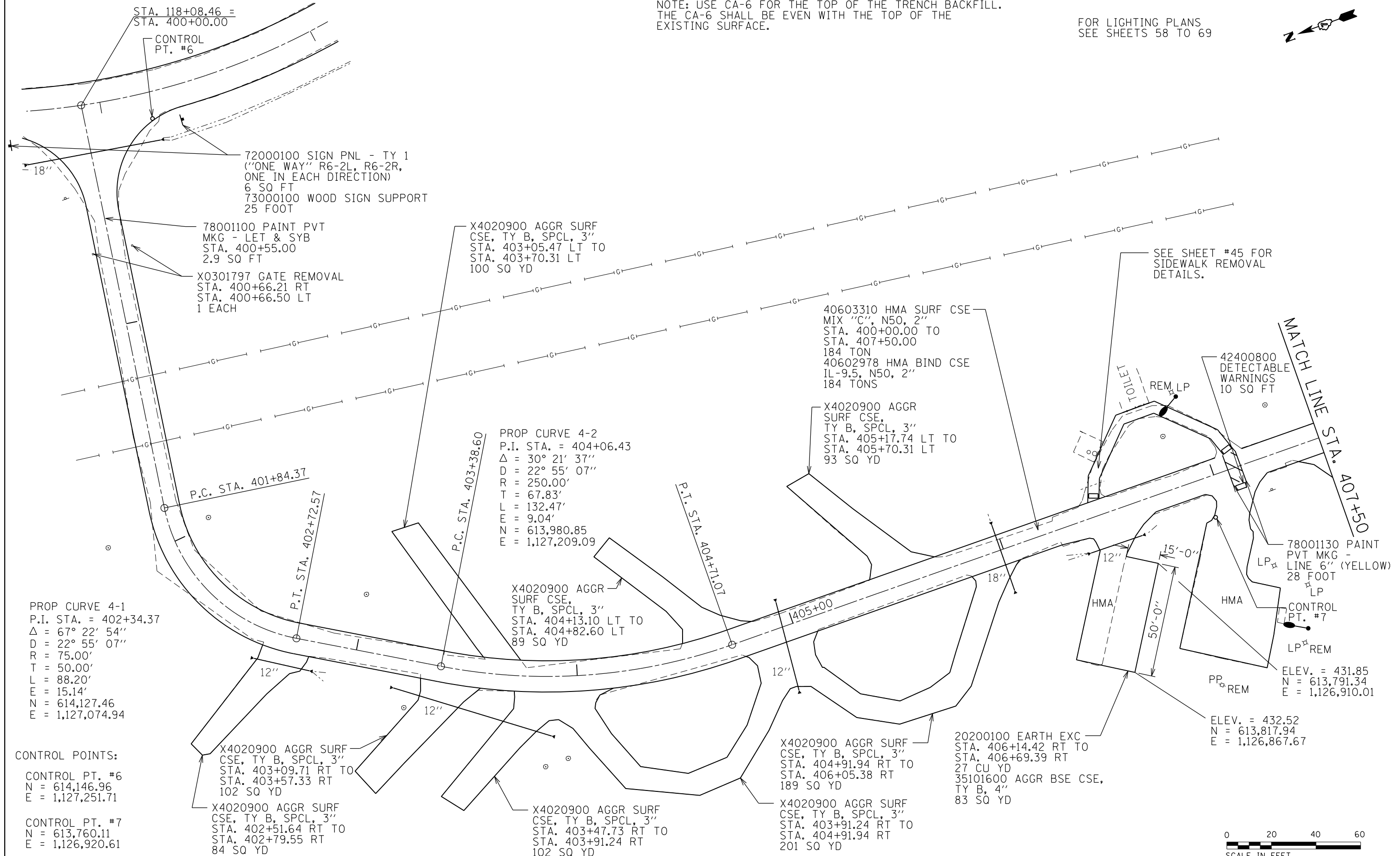


|                                   |                      |                             |                  |   |  |                       |                    |         |                           |           |
|-----------------------------------|----------------------|-----------------------------|------------------|---|--|-----------------------|--------------------|---------|---------------------------|-----------|
| FILE NAME =<br>sht.35.20 Plan.dgn | USER NAME = stevek   | DESIGNED - R.H.D.           | REVISED -        | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | PROPOSED SITE OFFICE PARKING LOT<br>BEALL WOODS STATE PARK AND NATURE PRESERVE | F.A. RTE.             | SECTION            | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|                                   | Default              | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D. |   |  | REVISED -             | PARK ROADS 2017-02 | WABASH  | 71                        | 35        |
|                                   | PLOT DATE = 2/1/2017 | DATE - 2/3/17               | REVISED -        |   | SCALE: 1" = 20'  | SHEET 35 OF 71 SHEETS | STA.               | TO STA. | ILLINOIS FED. AID PROJECT |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

NOTE: USE CA-6 FOR THE TOP OF THE TRENCH BACKFILL.  
THE CA-6 SHALL BE EVEN WITH THE TOP OF THE  
EXISTING SURFACE.

FOR LIGHTING PLANS  
SEE SHEETS 58 TO 69



CONTROL POINTS:  
CONTROL PT. #6  
N = 614,146.96  
E = 1,127,251.71  
CONTROL PT. #7  
N = 613,760.11  
E = 1,126,920.61

FILE NAME =  
sht.36.20 Plan.dgn  
Default

USER NAME = stevek  
DESIGNED - R.H.D.  
DRAWN - B.T.M.  
PLOT SCALE = 40.0000' / in.  
CHECKED - R.H.D.  
PLOT DATE = 2/1/2017

DESIGNED - R.H.D.  
DRAWN - B.T.M.  
CHECKED - R.H.D.  
DATE - 2/3/17

REVISED -  
REVISED -  
REVISED -  
REVISED -

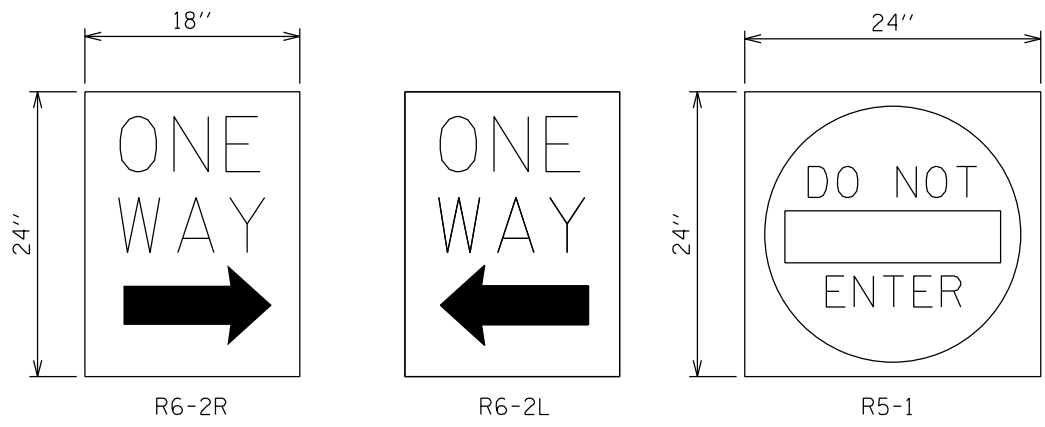
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CAMPGROUND PARKING LOT  
BEALL WOODS STATE PARK AND NATURE PRESERVE

SCALE: 1" = 20' SHEET 36 OF 71 SHEETS STA. 400+00.00 TO STA. 407+50.00

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------------|--------|--------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71           | 36        |
| CONTRACT NO. 46418        |                    |        |              |           |
| ILLINOIS FED. AID PROJECT |                    |        |              |           |

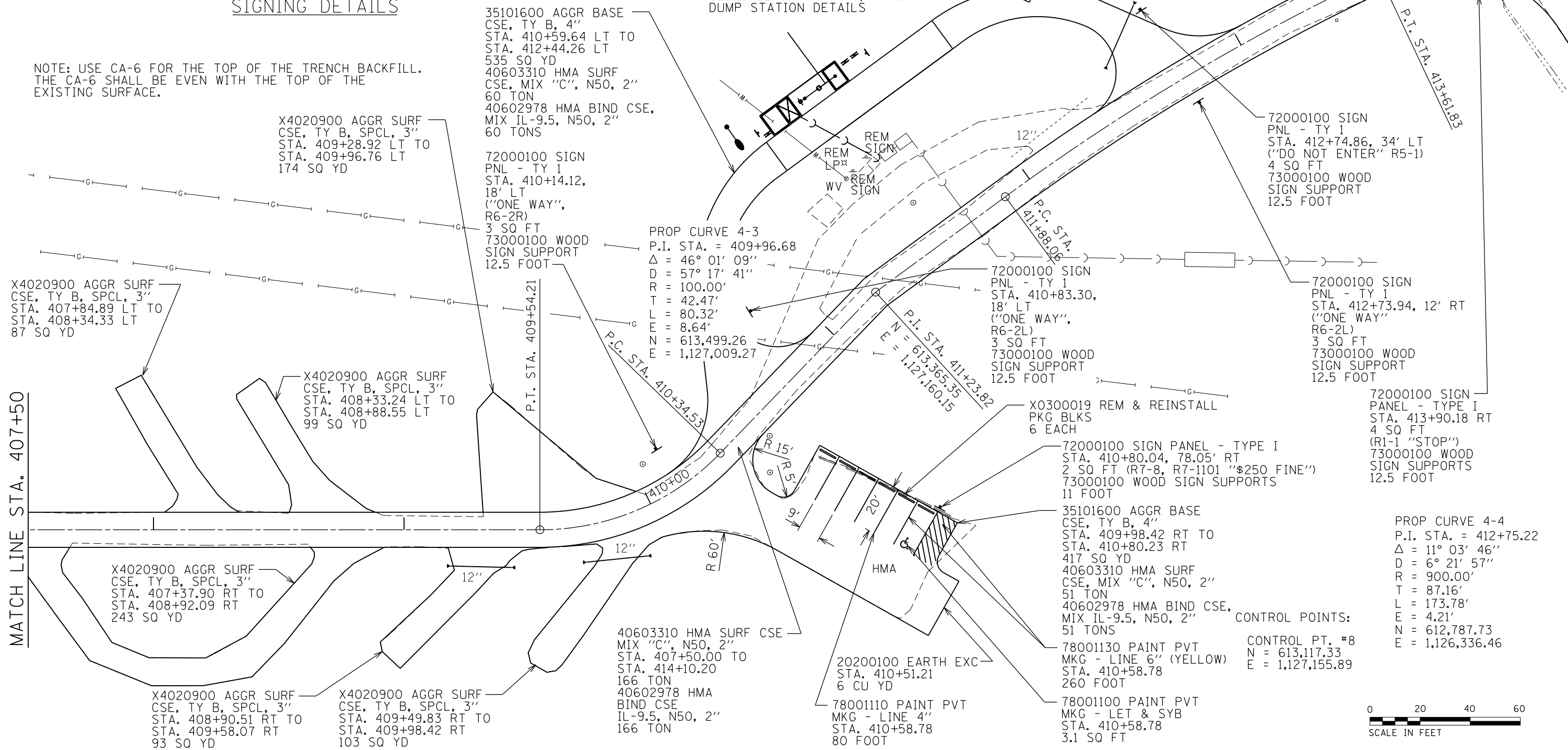
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



- X7330064 SIGN SUPPORT SPECIAL (BY CAMPSITE) 16 EACH
- 1 - 402+80
  - 2 - 403+37
  - 3 - 403+51
  - 4 - 403+89
  - 5 - 404+12
  - 6 - 404+43
  - 7 - 405+08
  - 8 - 405+37
  - 9 - 406+35
  - 10 - 406+87
  - 11 - 407+70
  - 12 - 408+26
  - 13 - 408+77
  - 14 - 409+40
  - 15 - 409+89
  - 16 - 409+90

SIGNING DETAILS

NOTE: USE CA-6 FOR THE TOP OF THE TRENCH BACKFILL. THE CA-6 SHALL BE EVEN WITH THE TOP OF THE EXISTING SURFACE.



FOR LIGHTING PLANS SEE SHEETS 58 TO 69

SEE SHEETS 46 TO 49, & 71 FOR DUMP STATION DETAILS

STA. 106+40.98 = STA. 414+20.30

- 72000100 SIGN PNL - TY 1 STA. 413+88.11, 23' LT ("ONE WAY" R6-2R, R6-2L) 3 SQ FT
- 73000100 WOOD SIGN SUPPORT 12.5 FOOT
- 72000100 SIGN PNL - TY 1 STA. 413+78.08, 15' LT ("DO NOT ENTER" R5-1) 4 SQ FT
- 73000100 WOOD SIGN SUPPORT 12.5 FOOT

PROP CURVE 4-4  
 P.I. STA. = 412+75.22  
 $\Delta = 11^\circ 03' 46''$   
 $D = 6^\circ 21' 57''$   
 $R = 900.00'$   
 $T = 87.16'$   
 $L = 173.78'$   
 $E = 4.21'$   
 $N = 612,787.73$   
 $E = 1,126,336.46$



MATCH LINE STA. 407+50

|                                |
|--------------------------------|
| FILE NAME = sht.37_20 Plan.dgn |
| Default                        |

|                             |                   |           |
|-----------------------------|-------------------|-----------|
| USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |
| PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |
|                             | DATE - 2/3/17     | REVISED - |

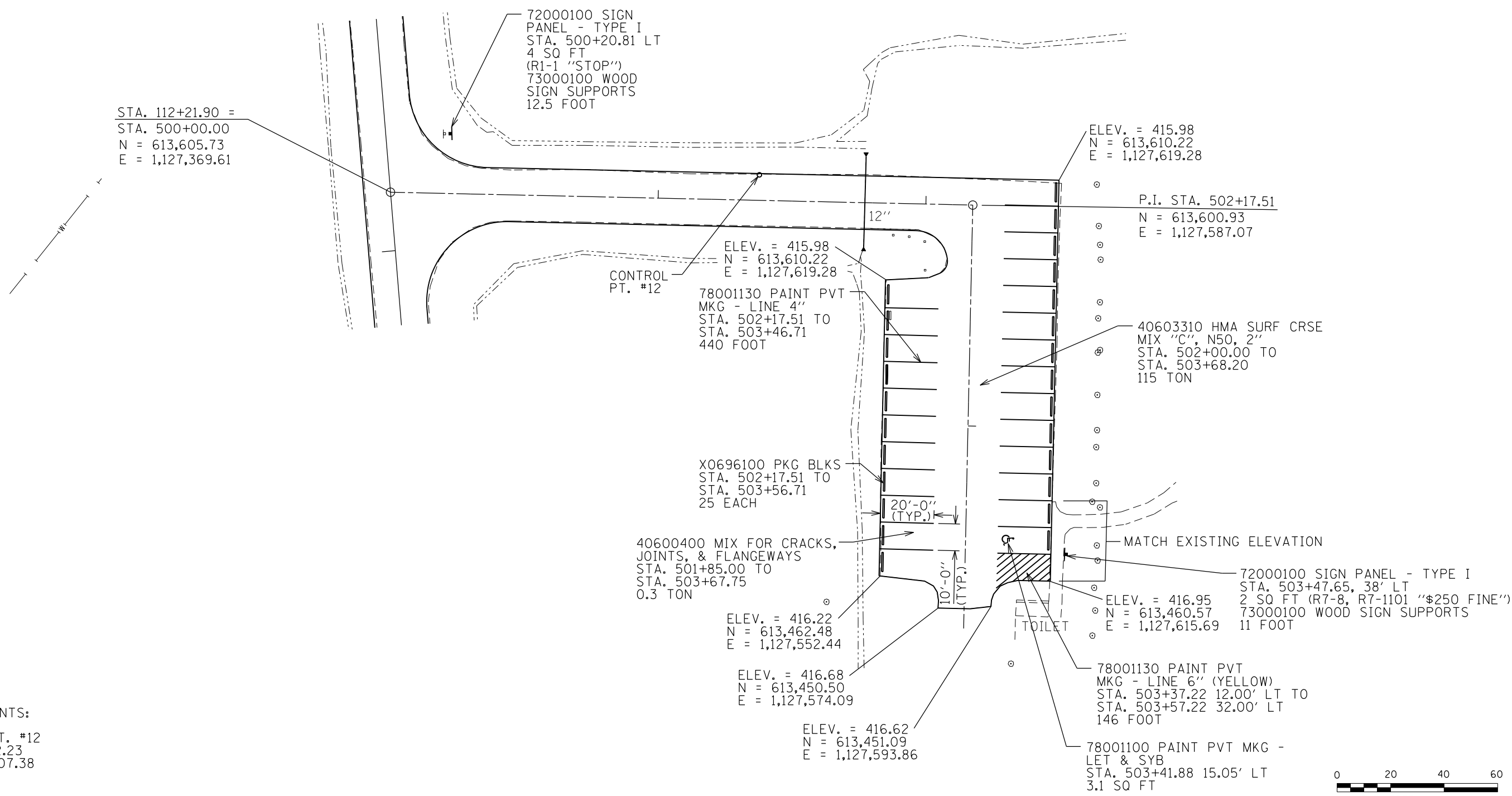
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CAMPGROUND PARKING LOT  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**

|                           |                    |        |              |           |
|---------------------------|--------------------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71           | 37        |
| CONTRACT NO. 46418        |                    |        |              |           |
| ILLINOIS FED. AID PROJECT |                    |        |              |           |

SCALE: 1" = 20' SHEET 37 OF 71 SHEETS STA. 407+50.00 TO STA. 414+20.30

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



STA. 112+21.90 =  
 STA. 500+00.00  
 N = 613,605.73  
 E = 1,127,369.61

ELEV. = 415.98  
 N = 613,610.22  
 E = 1,127,619.28

P.I. STA. 502+17.51  
 N = 613,600.93  
 E = 1,127,587.07

CONTROL  
 PT. #12

ELEV. = 415.98  
 N = 613,610.22  
 E = 1,127,619.28

78001130 PAINT PVT  
 MKG - LINE 4''  
 STA. 502+17.51 TO  
 STA. 503+46.71  
 440 FOOT

40603310 HMA SURF CRSE  
 MIX "C", N50, 2''  
 STA. 502+00.00 TO  
 STA. 503+68.20  
 115 TON

X0696100 PKG BLKS  
 STA. 502+17.51 TO  
 STA. 503+56.71  
 25 EACH

40600400 MIX FOR CRACKS,  
 JOINTS, & FLANGEWAYS  
 STA. 501+85.00 TO  
 STA. 503+67.75  
 0.3 TON

ELEV. = 416.22  
 N = 613,462.48  
 E = 1,127,552.44

72000100 SIGN PANEL - TYPE I  
 STA. 503+47.65, 38' LT  
 2 SQ FT (R7-8, R7-1101 "\$250 FINE")  
 73000100 WOOD SIGN SUPPORTS  
 11 FOOT

ELEV. = 416.68  
 N = 613,450.50  
 E = 1,127,574.09

ELEV. = 416.62  
 N = 613,451.09  
 E = 1,127,593.86

78001130 PAINT PVT  
 MKG - LINE 6'' (YELLOW)  
 STA. 503+37.22 12.00' LT TO  
 STA. 503+57.22 32.00' LT  
 146 FOOT

78001100 PAINT PVT MKG -  
 LET & SYB  
 STA. 503+41.88 15.05' LT  
 3.1 SQ FT

CONTROL POINTS:

CONTROL PT. #12  
 N = 613,612.23  
 E = 1,127,507.38

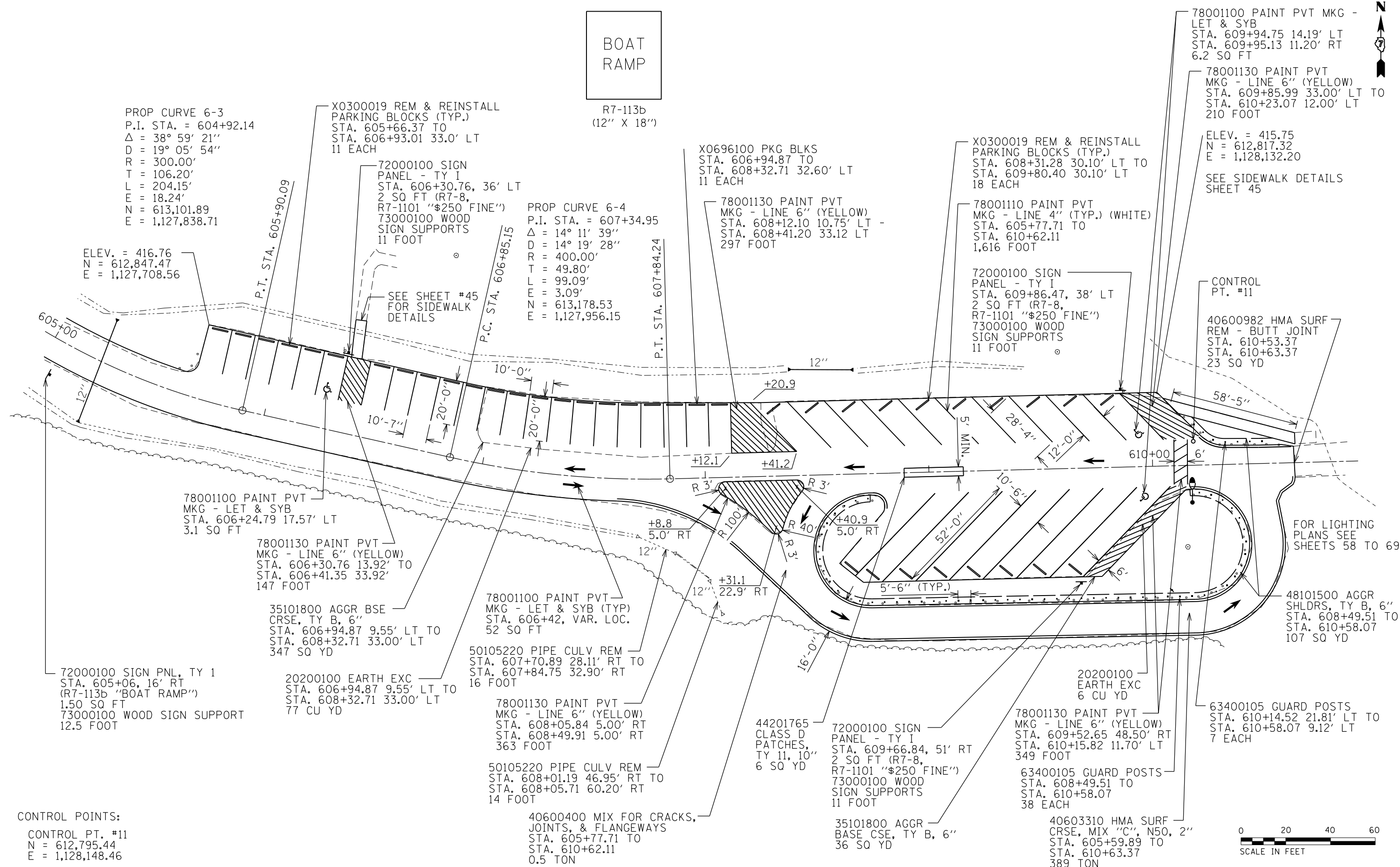


|                                   |                       |                      |           |   |  |                       |              |                           |         |        |                 |              |
|-----------------------------------|-----------------------|----------------------|-----------|---|--|-----------------------|--------------|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME =<br>sht.38.20 Plan.dgn | USER NAME =<br>stevek | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PROPOSED DAY USE PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       |              | F.A.<br>RTÉ.              | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| Default                           |                       | DRAWN -<br>B.T.M.    | REVISED - |   | SCALE: 1" = 20'  | SHEET 38 OF 71 SHEETS | STA. TO STA. | PARK ROADS 2017-02        | WABASH  | 71     | 38              |              |
|                                   |                       | CHECKED -<br>R.H.D.  | REVISED - |   |  |                       |              | CONTRACT NO. 46418        |         |        |                 |              |
|                                   |                       | DATE -<br>2/3/17     | REVISED - |   |  |                       |              | ILLINOIS FED. AID PROJECT |         |        |                 |              |

JOB NO. 250-141-E VASCCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



BOAT  
RAMP



PROP CURVE 6-3  
P.I. STA. = 604+92.14  
Δ = 38° 59' 21''  
D = 19° 05' 54''  
R = 300.00'  
T = 106.20'  
L = 204.15'  
E = 18.24'  
N = 613,101.89  
E = 1,127,838.71

ELEV. = 416.76  
N = 612,847.47  
E = 1,127,708.56

X0300019 REM & REINSTALL  
PARKING BLOCKS (TYP.)  
STA. 605+66.37 TO  
STA. 606+93.01 33.0' LT  
11 EACH

R7-113b  
(12" X 18")

72000100 SIGN  
PANEL - TY I  
STA. 606+30.76, 36' LT  
2 SQ FT (R7-8,  
R7-1101 "\$250 FINE")  
73000100 WOOD  
SIGN SUPPORTS  
11 FOOT

PROP CURVE 6-4  
P.I. STA. = 607+34.95  
Δ = 14° 11' 39''  
D = 14° 19' 28''  
R = 400.00'  
T = 49.80'  
L = 99.09'  
E = 3.09'  
N = 613,178.53  
E = 1,127,956.15

X0696100 PKG BLKS  
STA. 606+94.87 TO  
STA. 608+32.71 32.60' LT  
11 EACH

78001130 PAINT PVT  
MKG - LINE 6'' (YELLOW)  
STA. 608+12.10 10.75' LT -  
STA. 608+41.20 33.12 LT  
297 FOOT

X0300019 REM & REINSTALL  
PARKING BLOCKS (TYP.)  
STA. 608+31.28 30.10' LT TO  
STA. 609+80.40 30.10' LT  
18 EACH

78001110 PAINT PVT  
MKG - LINE 4'' (TYP.) (WHITE)  
STA. 605+77.71 TO  
STA. 610+62.11  
1,616 FOOT

72000100 SIGN  
PANEL - TY I  
STA. 609+86.47, 38' LT  
2 SQ FT (R7-8,  
R7-1101 "\$250 FINE")  
73000100 WOOD  
SIGN SUPPORTS  
11 FOOT

78001100 PAINT PVT MKG -  
LET & SYB  
STA. 609+94.75 14.19' LT  
STA. 609+95.13 11.20' RT  
6.2 SQ FT

78001130 PAINT PVT  
MKG - LINE 6'' (YELLOW)  
STA. 609+85.99 33.00' LT TO  
STA. 610+23.07 12.00' LT  
210 FOOT

ELEV. = 415.75  
N = 612,817.32  
E = 1,128,132.20

SEE SIDEWALK DETAILS  
SHEET 45

CONTROL  
PT. #11

40600982 HMA SURF  
REM - BUTT JOINT  
STA. 610+53.37  
STA. 610+63.37  
23 SQ YD

78001100 PAINT PVT  
MKG - LET & SYB  
STA. 606+24.79 17.57' LT  
3.1 SQ FT

78001130 PAINT PVT  
MKG - LINE 6'' (YELLOW)  
STA. 606+30.76 13.92' TO  
STA. 606+41.35 33.92'  
147 FOOT

35101800 AGGR BSE  
CRSE, TY B, 6''  
STA. 606+94.87 9.55' LT TO  
STA. 608+32.71 33.00' LT  
347 SQ YD

72000100 SIGN PNL, TY 1  
STA. 605+06, 16' RT  
(R7-113b "BOAT RAMP")  
1.50 SQ FT  
73000100 WOOD SIGN SUPPORT  
12.5 FOOT

20200100 EARTH EXC  
STA. 606+94.87 9.55' LT TO  
STA. 608+32.71 33.00' LT  
77 CU YD

78001100 PAINT PVT  
MKG - LET & SYB (TYP)  
STA. 606+42, VAR. LOC.  
52 SQ FT

50105220 PIPE CULV REM  
STA. 607+70.89 28.11' RT TO  
STA. 607+84.75 32.90' RT  
16 FOOT

78001130 PAINT PVT  
MKG - LINE 6'' (YELLOW)  
STA. 608+05.84 5.00' RT  
STA. 608+49.91 5.00' RT  
363 FOOT

50105220 PIPE CULV REM  
STA. 608+01.19 46.95' RT TO  
STA. 608+05.71 60.20' RT  
14 FOOT

40600400 MIX FOR CRACKS,  
JOINTS, & FLANGEWAYS  
STA. 605+77.71 TO  
STA. 610+62.11  
0.5 TON

44201765  
CLASS D  
PATCHES,  
TY 11, 10''  
6 SQ YD

72000100 SIGN  
PANEL - TY I  
STA. 609+66.84, 51' RT  
2 SQ FT (R7-8,  
R7-1101 "\$250 FINE")  
73000100 WOOD  
SIGN SUPPORTS  
11 FOOT

35101800 AGGR  
BASE CSE, TY B, 6''  
36 SQ YD

78001130 PAINT PVT  
MKG - LINE 6'' (YELLOW)  
STA. 609+52.65 48.50' RT  
STA. 610+15.82 11.70' LT  
349 FOOT

63400105 GUARD POSTS  
STA. 608+49.51 TO  
STA. 610+58.07  
38 EACH

40603310 HMA SURF  
CRSE, MIX 'C', N50, 2''  
STA. 605+59.89 TO  
STA. 610+63.37  
389 TON

FOR LIGHTING  
PLANS SEE  
SHEETS 58 TO 69

48101500 AGGR  
SHLDRS, TY B, 6''  
STA. 608+49.51 TO  
STA. 610+58.07  
107 SQ YD

63400105 GUARD POSTS  
STA. 610+14.52 21.81' LT TO  
STA. 610+58.07 9.12' LT  
7 EACH

CONTROL POINTS:  
CONTROL PT. #11  
N = 612,795.44  
E = 1,128,148.46

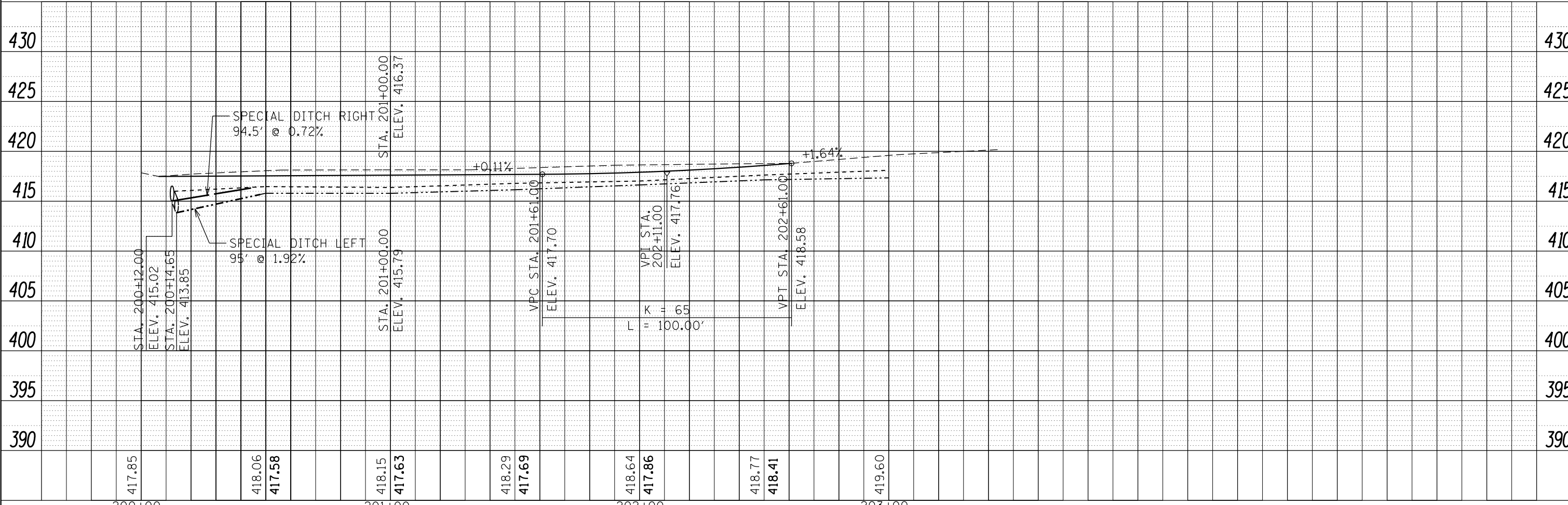
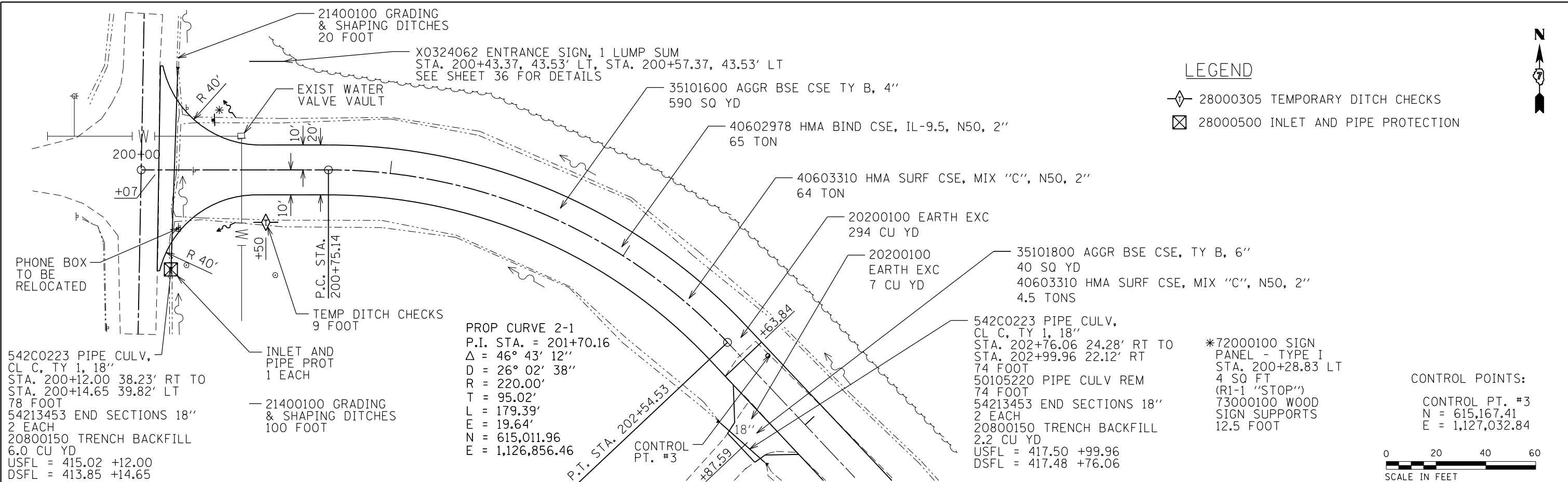


|                                   |                             |                   |           |   |   |                       |                                  |                           |         |        |              |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|---|-----------------------|----------------------------------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =<br>sht_39_20 Plan.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>BOAT RAMP PARKING LOT<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       |                                  | F.A. RTE.                 | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                           | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |   | SCALE: 1" = 20'   | SHEET 39 OF 71 SHEETS | STA. 605+00.00 TO STA. 610+80.00 | PARK ROADS 2017-02        | WABASH  | 71     | 39           |           |
|                                   | PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |   |   |                       |                                  | CONTRACT NO. 46418        |         |        |              |           |
|                                   |                             | DATE - 2/3/17     | REVISED - |   |   |                       |                                  | ILLINOIS FED. AID PROJECT |         |        |              |           |

JOB NO. 250-141-E VASCONECLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

|      |                          |      |
|------|--------------------------|------|
| PLAN | SURVEYED                 | DATE |
|      | PLOTTED                  |      |
|      | GRADES CHECKED           |      |
|      | STRUCTURE NOTATIONS CHFD |      |
|      | NOTE BOOK                |      |
|      | NO.                      |      |

|         |                          |      |
|---------|--------------------------|------|
| PROFILE | SURVEYED                 | DATE |
|         | PLOTTED                  |      |
|         | GRADES CHECKED           |      |
|         | STRUCTURE NOTATIONS CHFD |      |
|         | NOTE BOOK                |      |
|         | NO.                      |      |



|   |                             |                   |            |   |  |                    |                       |                                  |                           |           |
|---|-----------------------------|-------------------|------------|---|--|--------------------|-----------------------|----------------------------------|---------------------------|-----------|
| FILE NAME = sht_40 Plan and Profile.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISIED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>PLAN AND PROFILE NEW ACCESS RD</b><br><b>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTE.          | SECTION               | COUNTY                           | TOTAL SHEETS              | SHEET NO. |
| Default                                 | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISIED - |   |  | PARK ROADS 2017-02 | WABASH                | 71                               | 40                        |           |
|   | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISIED - |   |  | CONTRACT NO. 46418 |                       |                                  | ILLINOIS FED. AID PROJECT |           |
|   |                             |                   |            |   |  | SCALE: 1" = 20'    | SHEET 40 OF 71 SHEETS | STA. 200+00.00 TO STA. 203+29.00 |                           |           |

JOB NO. 250-141-1 VASCONEILLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



|      |           |    |      |
|------|-----------|----|------|
| PLAN | SURVEYED  | BY | DATE |
|      | PLOTTED   |    |      |
|      | ALIGNED   |    |      |
|      | CHECKED   |    |      |
|      | FILE NAME |    |      |
|      | NO.       |    |      |

|         |                |    |      |
|---------|----------------|----|------|
| PROFILE | SURVEYED       | BY | DATE |
|         | PLOTTED        |    |      |
|         | GRADES CHECKED |    |      |
|         | STRUCTURE      |    |      |
|         | NOTATIONS      |    |      |
|         | CHFD           |    |      |
|         | NO.            |    |      |

PROP CURVE 3  
P.I. STA. = 114+77.87  
 $\Delta = 22^\circ 18' 56''$   
D = 14° 19' 27"  
R = 400.00'  
T = 78.90'  
L = 155.79'  
E = 7.71'  
N = 613,749.35  
E = 1,126,956.42

40600982 HMA SURF  
REM - BUTT JT,  
44 SQ YD

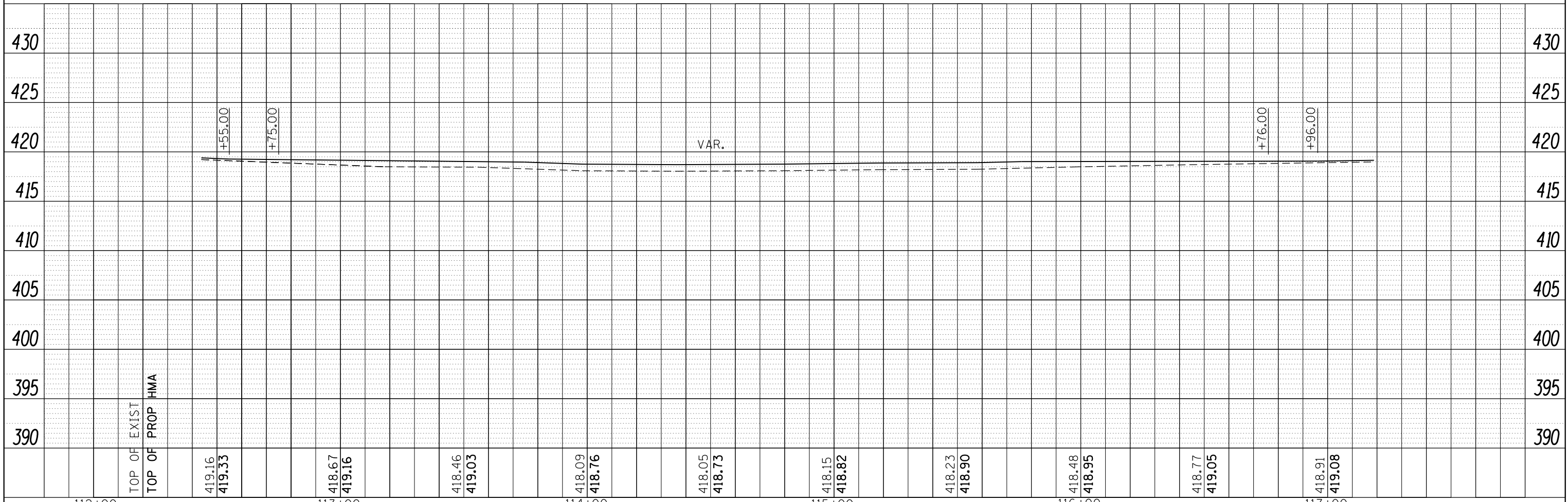
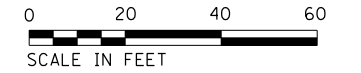
35101600 AGGR BSE CSE, TY B, 4"  
921 SQ YD

40603310 HMA SURF  
CSE, MIX "C", N50, 2"  
101 TON  
40602978 HMA BIND CSE,  
MIX IL-9.5, N50, 2"  
101 TON

40600982 HMA SURF  
REM - BUTT JT,  
44 SQ YD

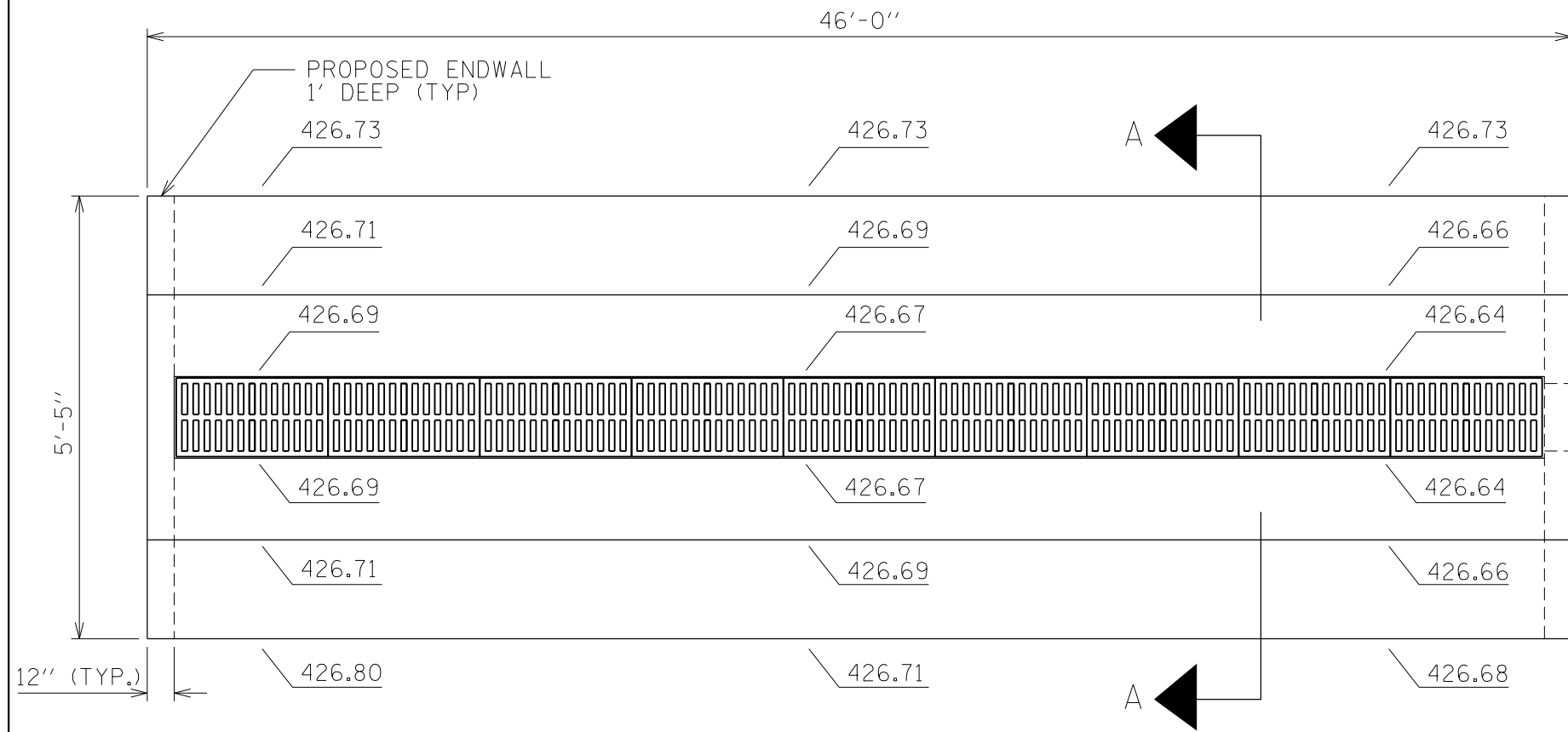
PROP CURVE 4  
P.I. STA. = 114+77.87  
 $\Delta = 57^\circ 14' 43''$   
D = 17° 37' 47"  
R = 325.00'  
T = 177.36'  
L = 324.71'  
E = 45.25'  
N = 614,109.53  
E = 1,127,586.57

LEGEND

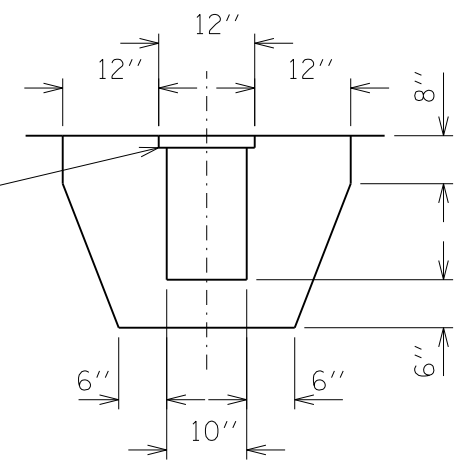


|   |                             |                   |          |   |   |           |                       |        |              |                           |  |
|---|-----------------------------|-------------------|----------|---|---|-----------|-----------------------|--------|--------------|---------------------------|--|
| FILE NAME = sht.41 Plan and Profile.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISD - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>PLAN AND PROFILE DIP CORRECTION MAIN RD</b><br><b>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTÉ. | SECTION               | COUNTY | TOTAL SHEETS | SHEET NO.                 |  |
| Default                                 | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISD - |   |   |           | PARK ROADS 2017-02    | WABASH | 71           | 41                        |  |
|   | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISD - |   |   | SCALE:    | SHEET 41 OF 71 SHEETS | STA.   | TO STA.      | CONTRACT NO. 46418        |  |
|   |                             |                   |          |   |   |           |                       |        |              | ILLINOIS FED. AID PROJECT |  |

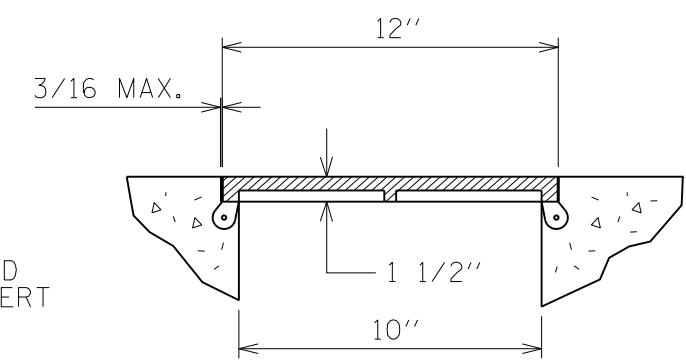
JOB NO. 250-141-1 VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



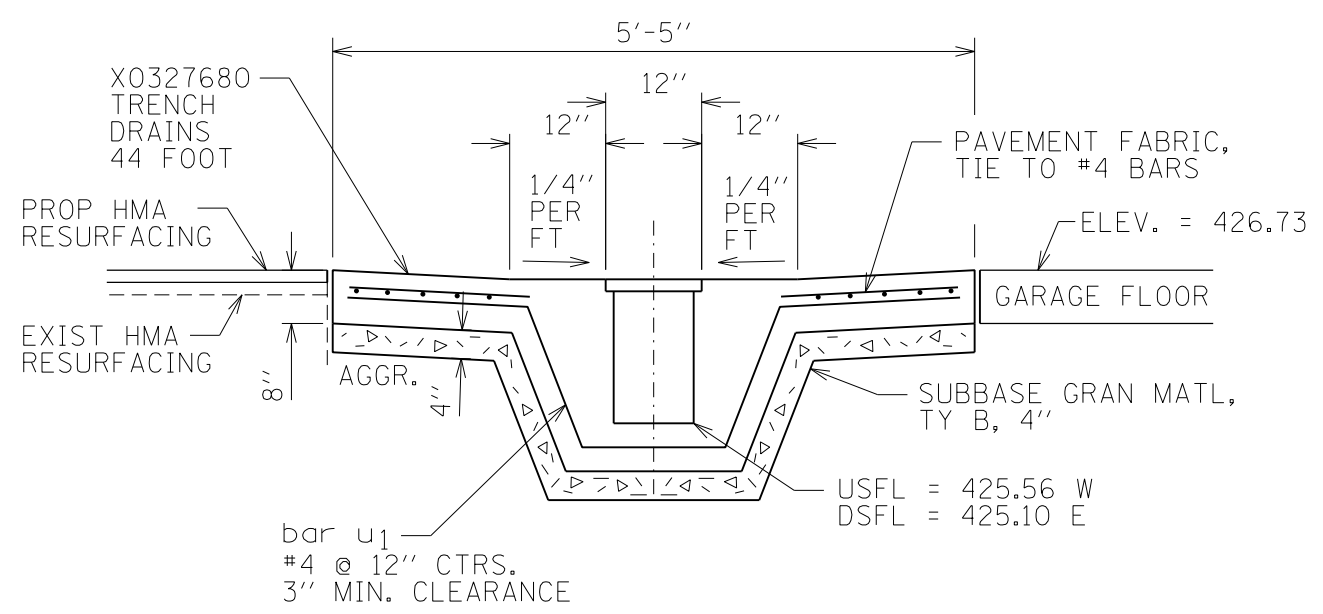
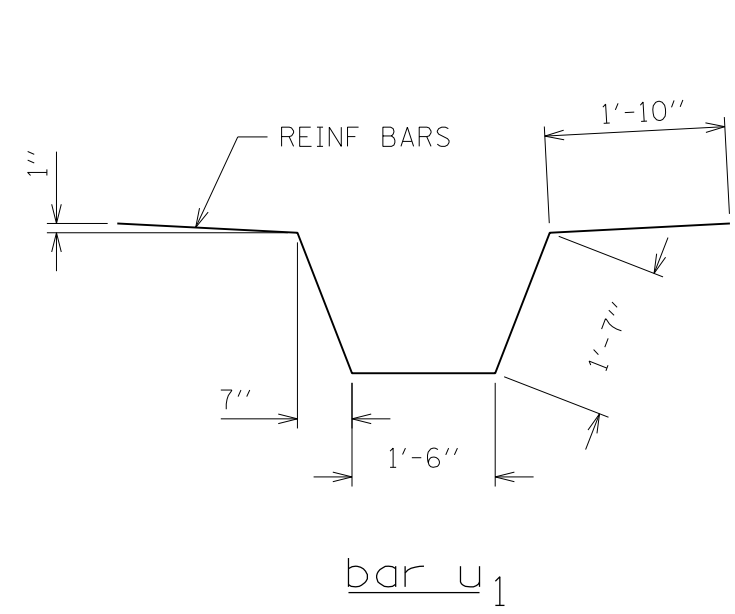
HEAVY DUTY TRENCH  
DRAIN FRAME AND GRATE  
(INSTALLATION SHALL BE  
DONE IN ACCORDANCE  
WITH MANUFACTURER'S  
INSTRUCTIONS)



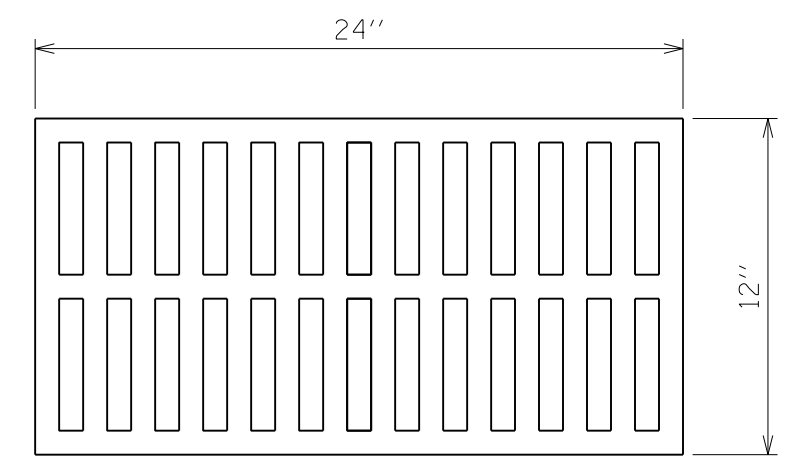
TRENCH DETAILS



FRAME



SECTION A-A

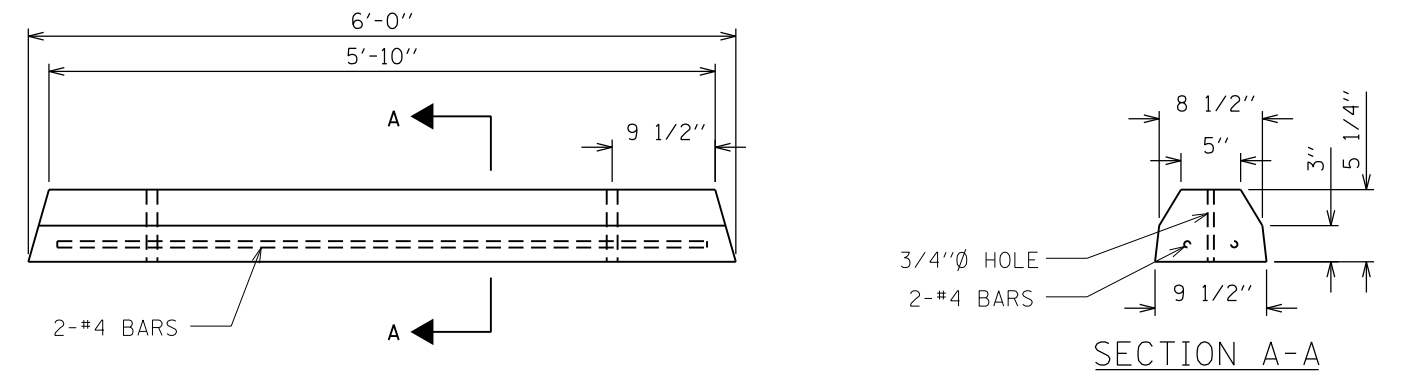
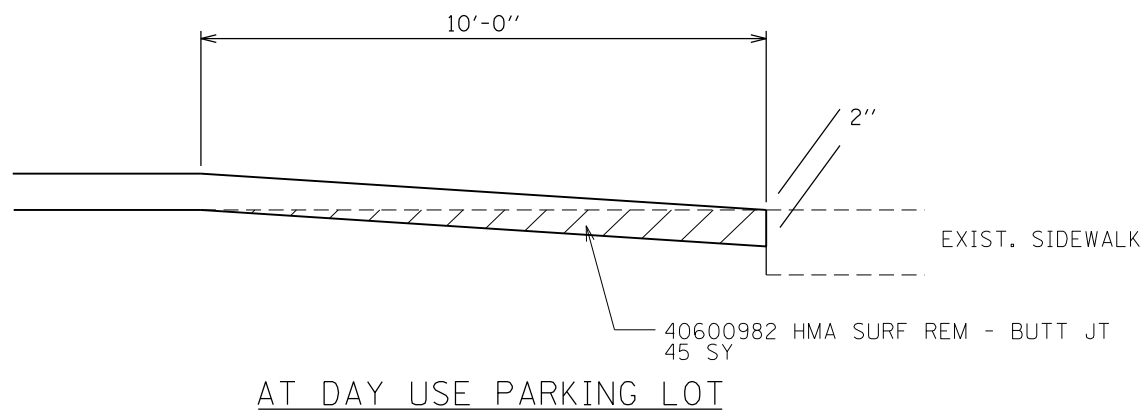


TRENCH DRAIN  
FRAME AND LID

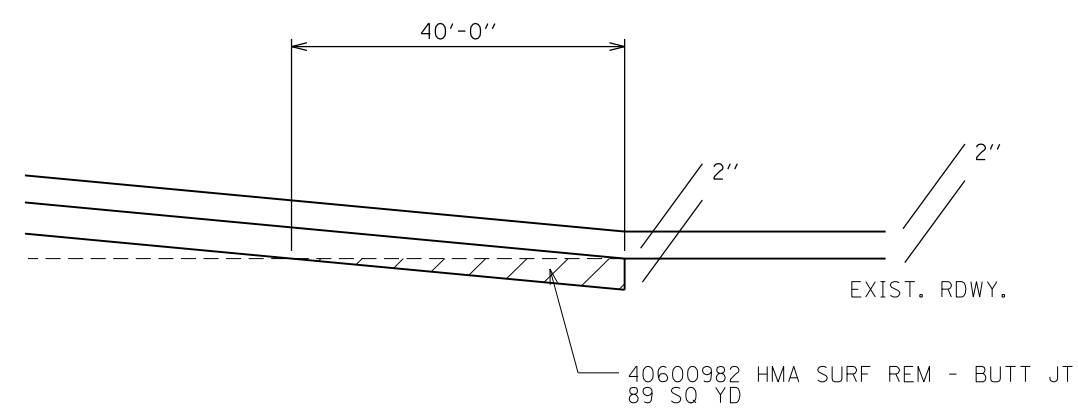
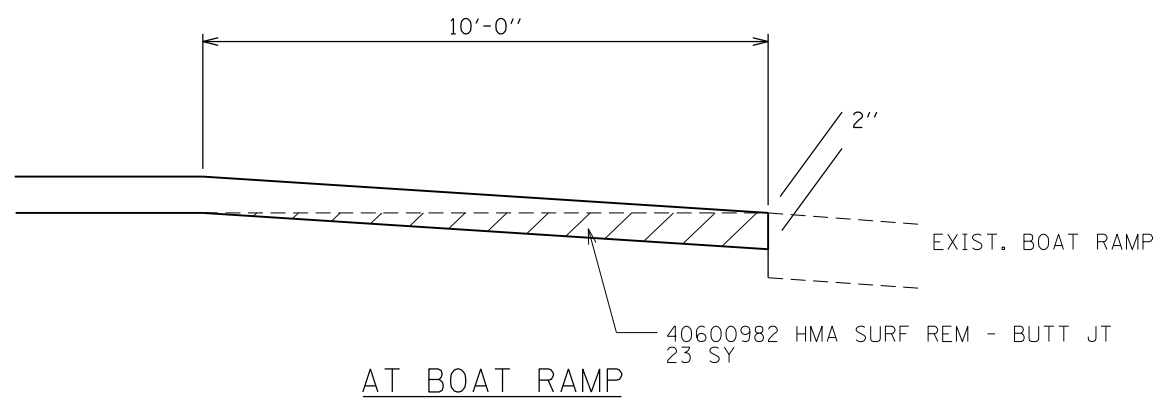
OPEN LID, TYPE  
A GRATE OPENING  
NEENAH R-4990-AX  
OR APPROVED EQUIVALENT

|  |                            |                   |           |   |  |                       |           |         |                    |              |           |    |
|--|----------------------------|-------------------|-----------|---|--|-----------------------|-----------|---------|--------------------|--------------|-----------|----|
| FILE NAME =<br>sht_42 Trench Drain Details.dgn | USER NAME = stevek         | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>TRENCH DRAIN DETAILS<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE. | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |    |
| Default  | PLOT SCALE = 2.0000' / in. | DRAWN - S.D.K.    | REVISED - |   | SCALE: NTS   | SHEET 42 OF 71 SHEETS | STA.      | TO STA. | PARK ROADS 2017-02 | WABASH       | 71        | 42 |
|  | PLOT DATE = 2/1/2017       | CHECKED - R.H.D.  | REVISED - |   |  |                       |           |         |                    |              |           |    |
|  |                            | DATE - 2/3/17     | REVISED - |   |  |                       |           |         |                    |              |           |    |
| CONTRACT NO. 42418                             |                            |                   |           |   |  |                       |           |         |                    |              |           |    |
| ILLINOIS FED. AID PROJECT                      |                            |                   |           |   |  |                       |           |         |                    |              |           |    |

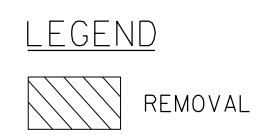
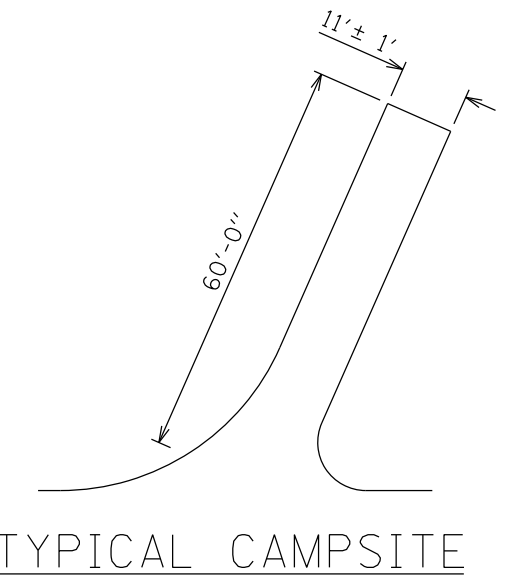
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



PARKING BLOCK DETAIL



BUTT JOINT DETAILS



|   |                            |                   |           |
|---|----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_43 Butt Jt Details.dgn | USER NAME = stevek         | DESIGNED - R.H.D. | REVISED - |
| Default                                   | PLOT SCALE = 2.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|   | PLOT DATE = 2/1/2017       | CHECKED - R.H.D.  | REVISED - |
|   |                            | DATE - 2/3/17     | REVISED - |

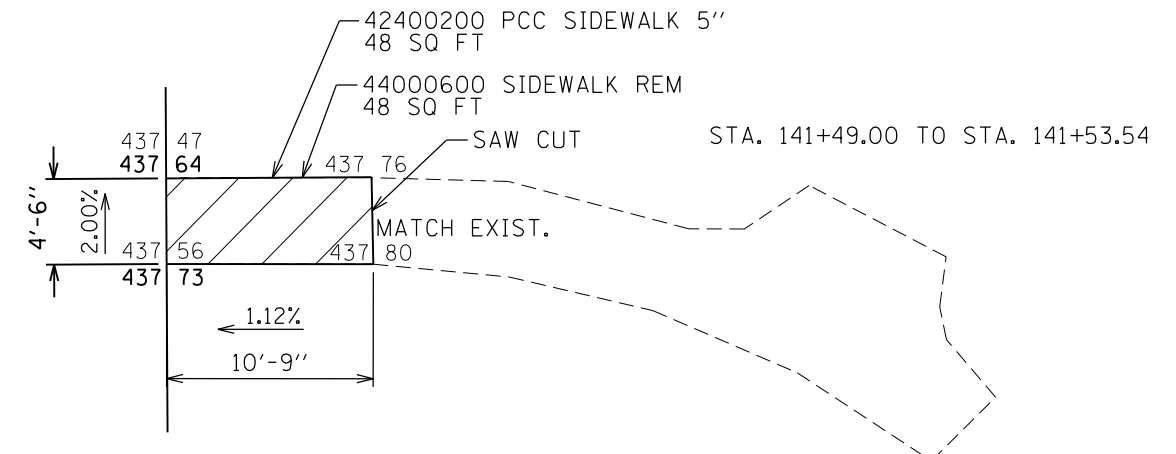
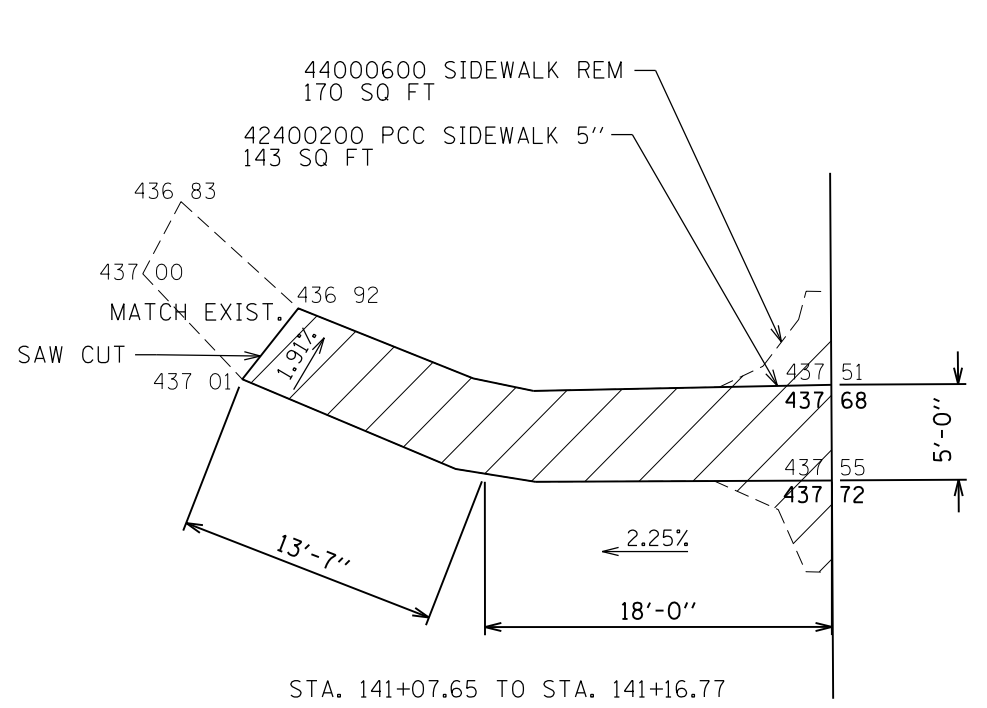
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND CONCRETE PARKING BLOCK DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE**

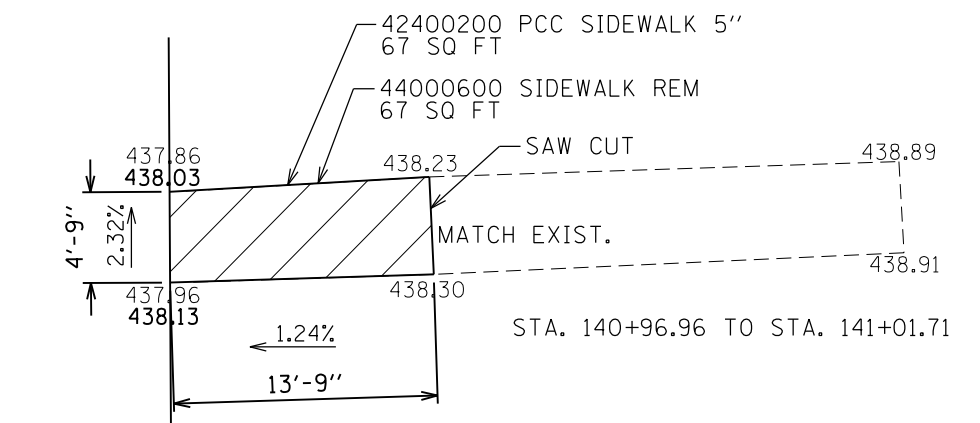
SCALE: NTS SHEET 45 OF 71 SHEETS STA. TO STA.

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 43        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



VISITOR'S  
CENTER  
PARKING  
LOT

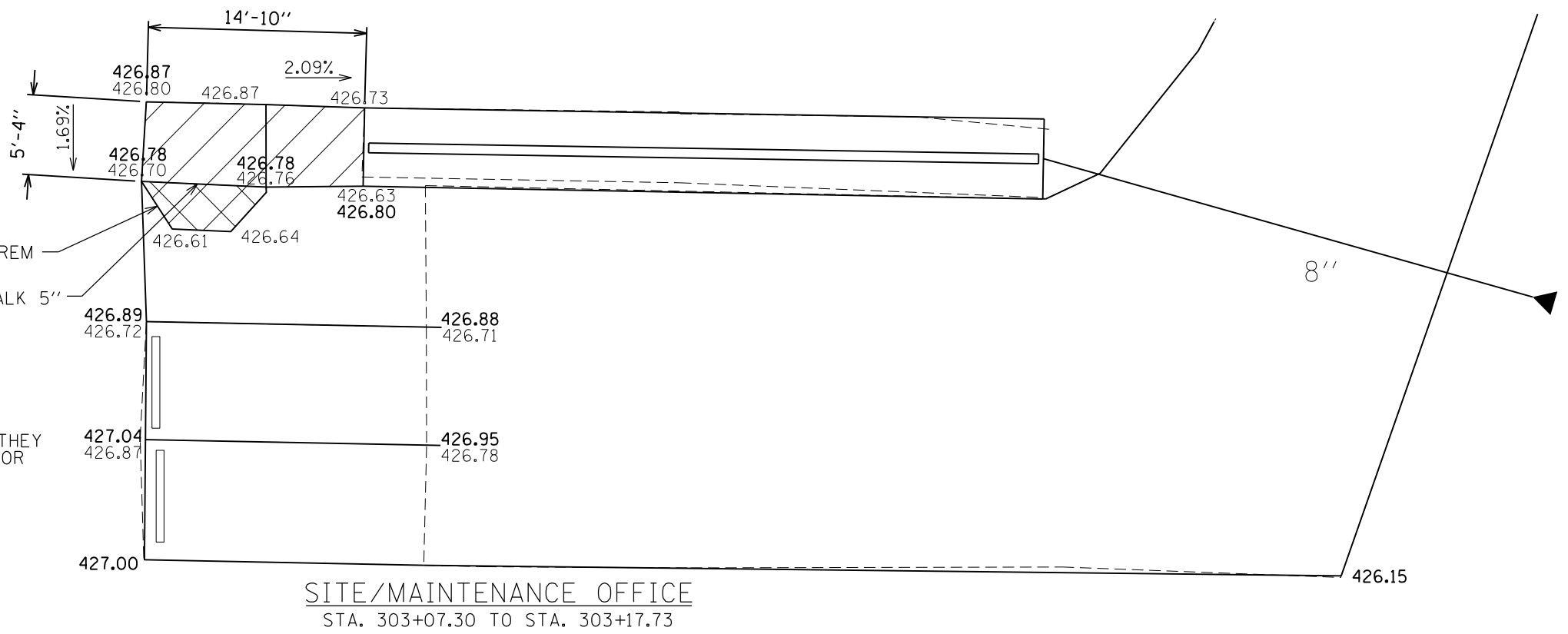


LEGEND  
 REMOVAL

SCALE: 1" = 5'

NOTES:

- 1) COMPLETELY REMOVE BUILT-UP HANDICAP RAMP
- 2) RE-POUR OTHER SLABS SO THAT THEY DRAIN AWAY FROM THE BUILDING OR INTO THE TRENCH DRAIN



SCALE: 1" = 5'

FILE NAME = sht\_44 Sidewalk Ramps.dgn  
 Default

USER NAME = stevek  
 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 2/1/2017

DESIGNED - R.H.D.  
 DRAWN - S.D.K.  
 CHECKED - R.H.D.  
 DATE - 2/3/17

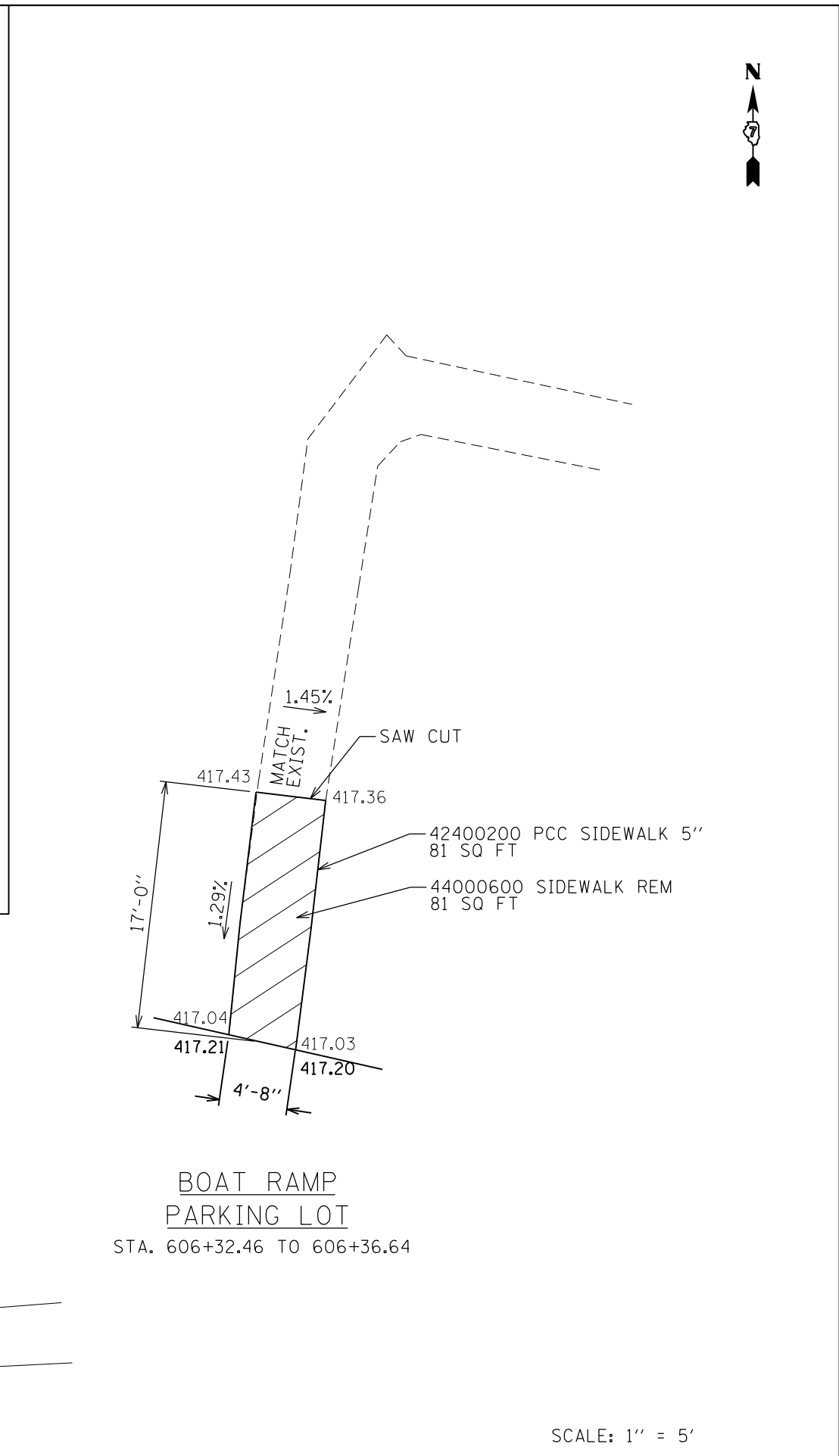
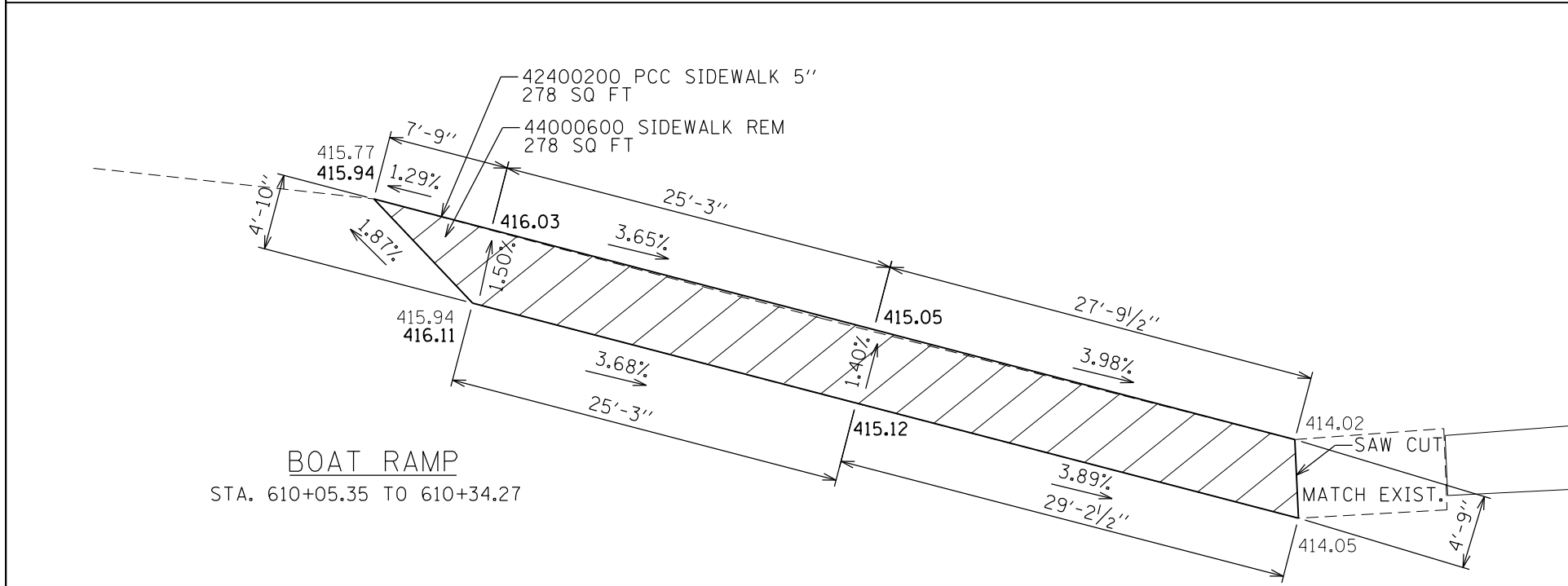
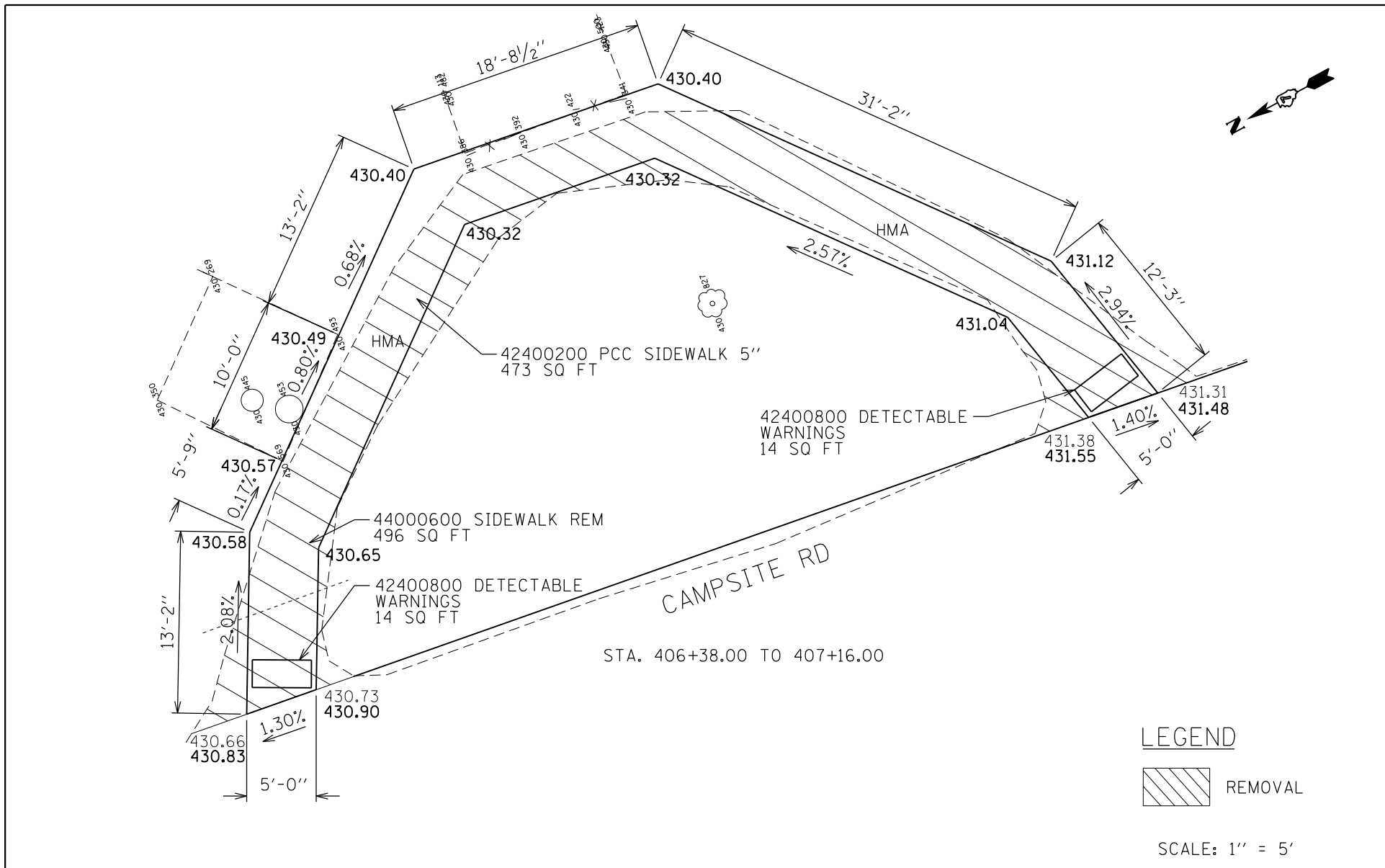
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMPS  
 BEALL WOODS STATE PARK AND NATURE PRESERVE  
 SCALE: 1" = 5' SHEET 44 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 44        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



FILE NAME = sht\_45 Sidewalk Ramps.dgn  
 Default

USER NAME = stevek  
 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 2/1/2017

DESIGNED - R.H.D.  
 DRAWN - B.T.M.  
 CHECKED - R.H.D.  
 DATE - 2/3/17

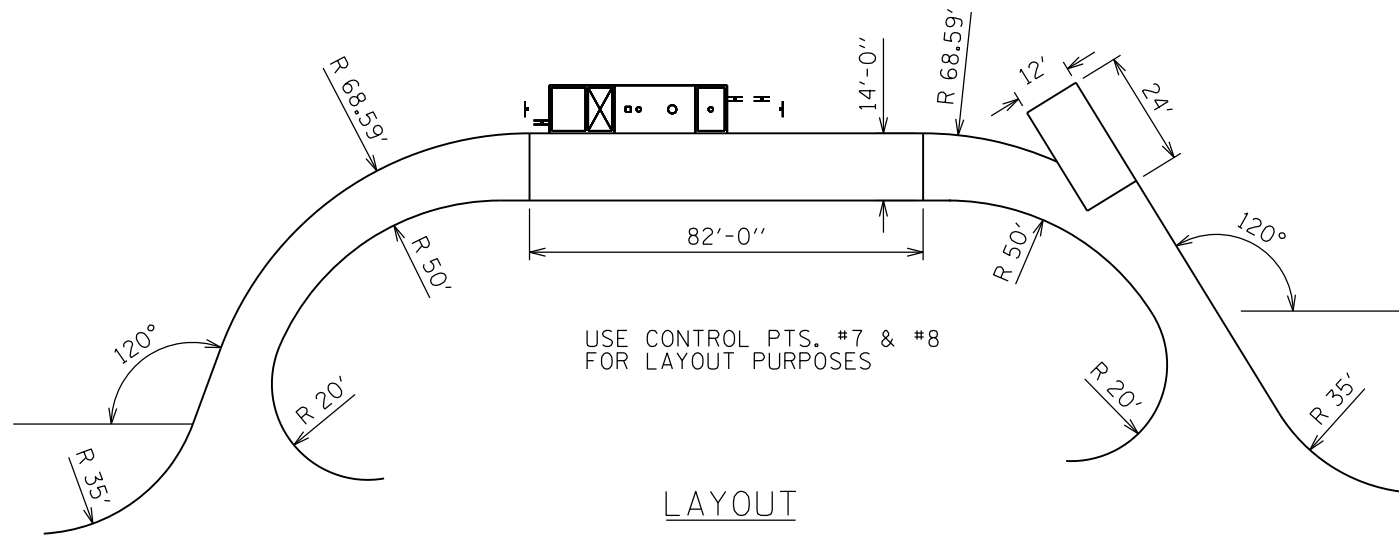
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

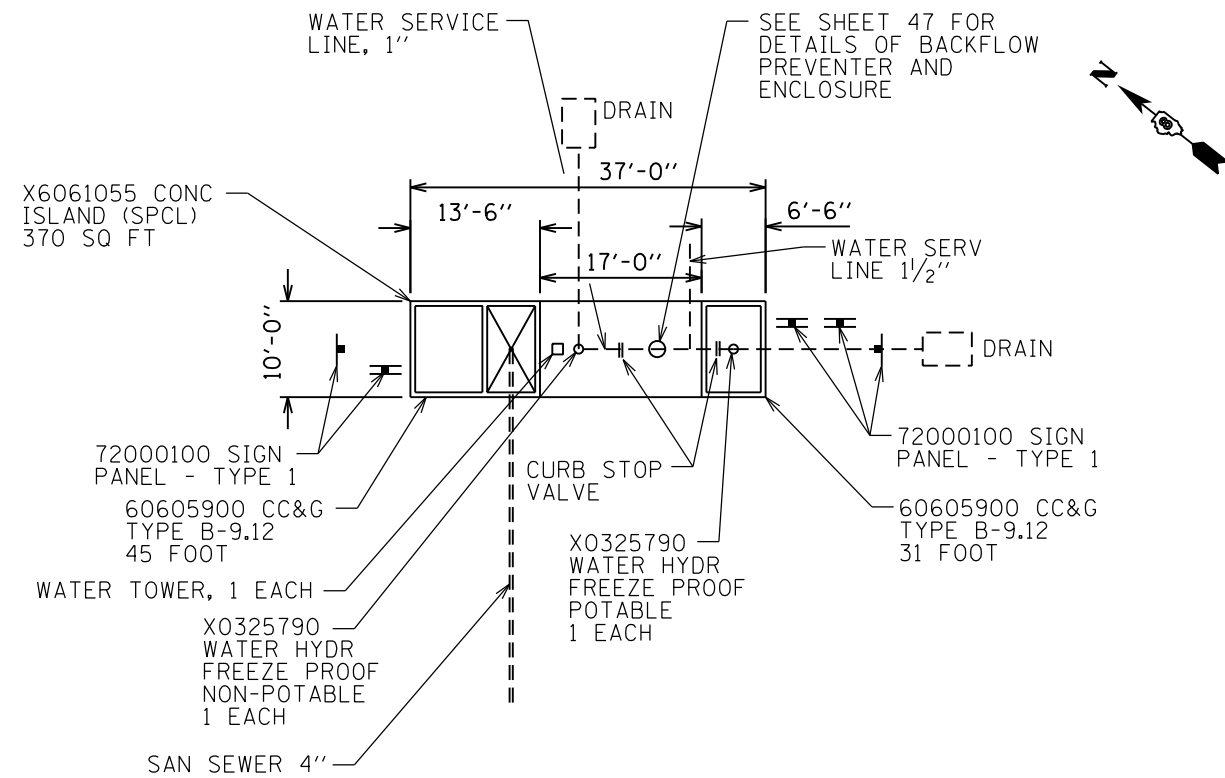
**SIDEWALK RAMPS  
 BEALL WOODS STATE PARK AND NATURE PRESERVE**  
 SCALE: 1" = 5' SHEET 45 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 45        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

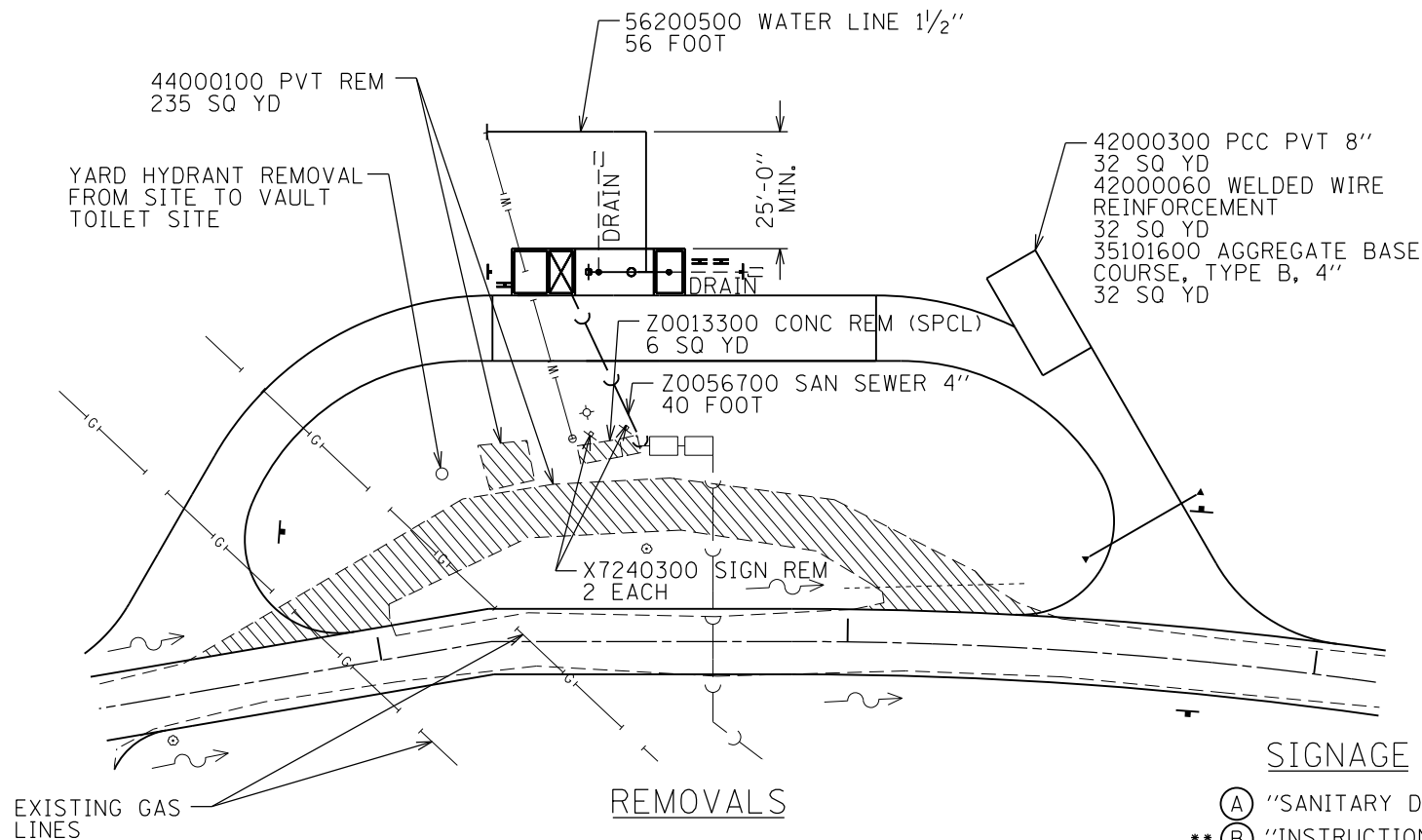
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



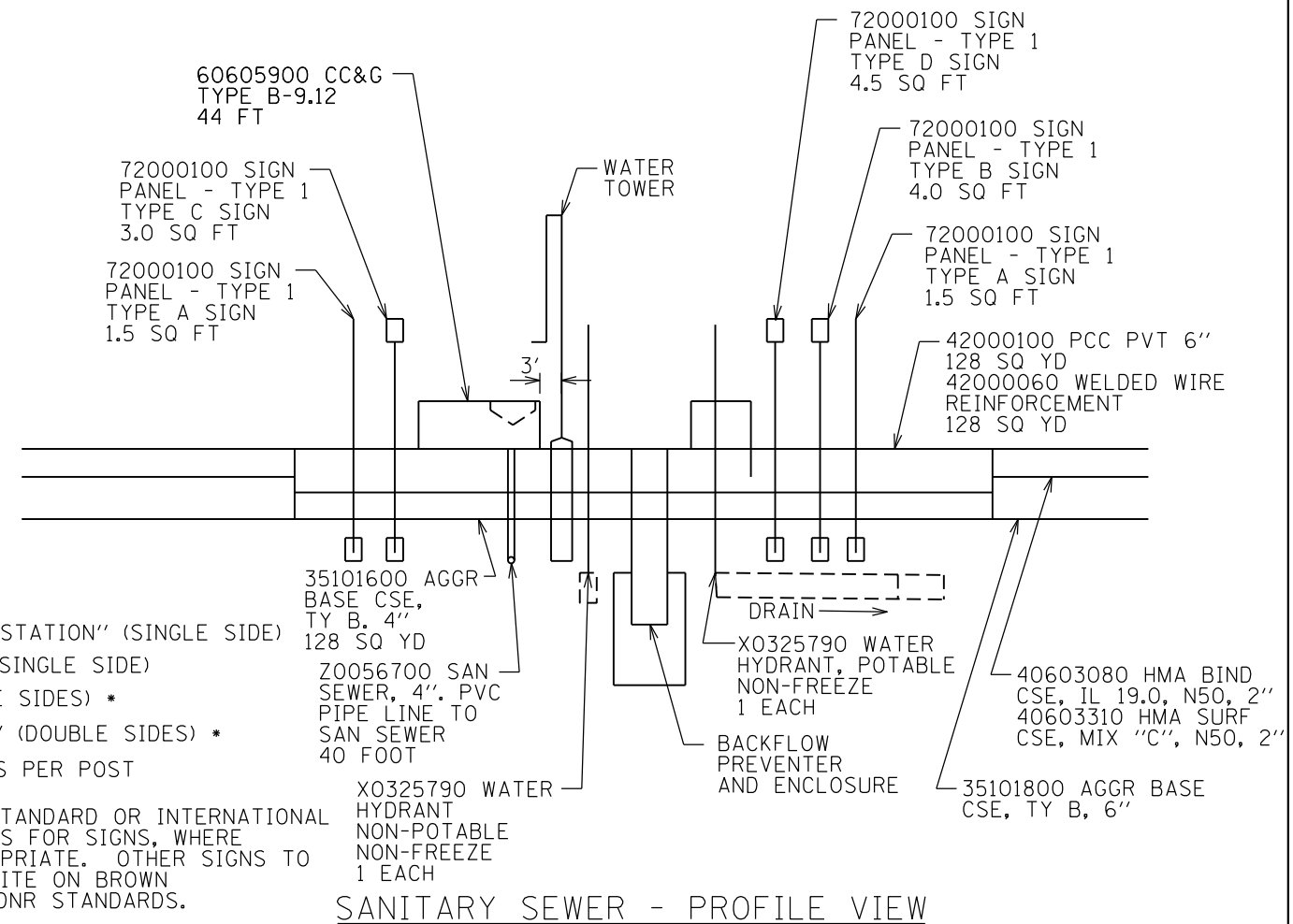
LAYOUT



SANITARY SEWER - PLAN VIEW



REMOVALS



SANITARY SEWER - PROFILE VIEW

LEGEND



SIGNAGE

- (A) "SANITARY DUMP STATION" (SINGLE SIDE)
  - \*\* (B) "INSTRUCTIONS" (SINGLE SIDE)
  - (C) "DANGER" (DOUBLE SIDES) \*
  - (D) "DRINKING WATER" (DOUBLE SIDES) \*
- \* TWO SIGNS PER POST
- (A) 12" X 18" USE STANDARD OR INTERNATIONAL COLORS FOR SIGNS, WHERE APPROPRIATE. OTHER SIGNS TO BE WHITE ON BROWN PER IDNR STANDARDS.
  - (B) 24" X 12"
  - (C) 18" X 12"
  - (D) 18" X 18"

\*\* TRAILERS HOLDING TANK DISPOSAL INSTRUCTIONS - CONNECT YOUR HOSE TO HOLDING TANK. PLACE END SECURELY IN DRAIN HATCH WHILE HOLDING COVER OPEN WITH FOOT. OPEN TRAILER WASTE VALVE. FLUSH AWAY ANY SPILLAGE ON CONCRETE INTO DRAIN.

|  |                             |                   |           |
|--|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_46 Dump Station.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                                | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|  | PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |
|  |                             | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DUMP STATION DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE

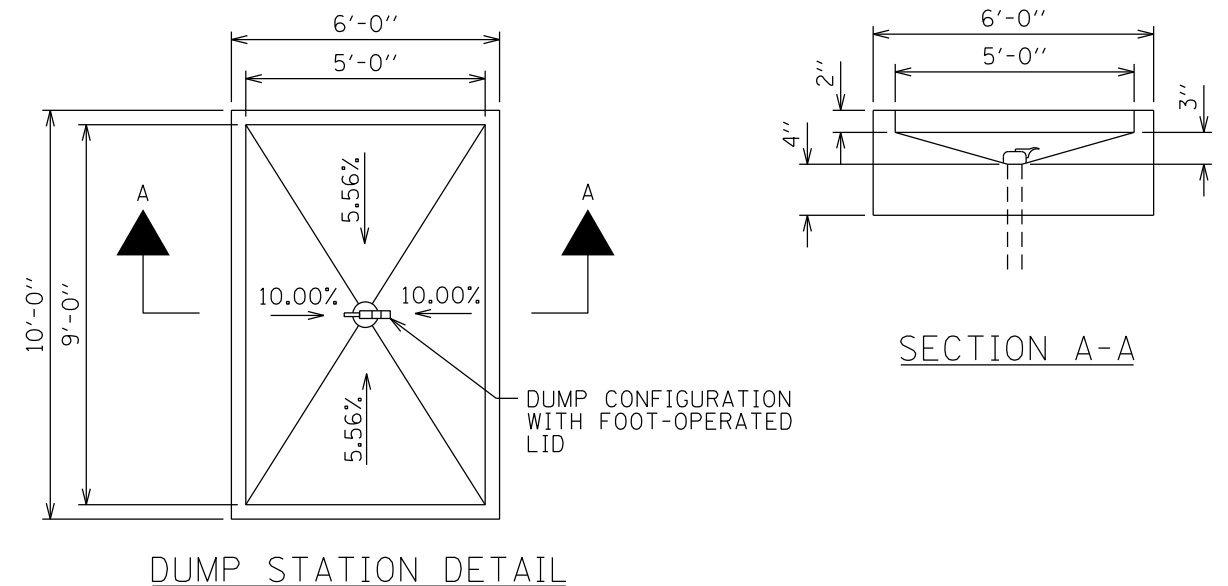
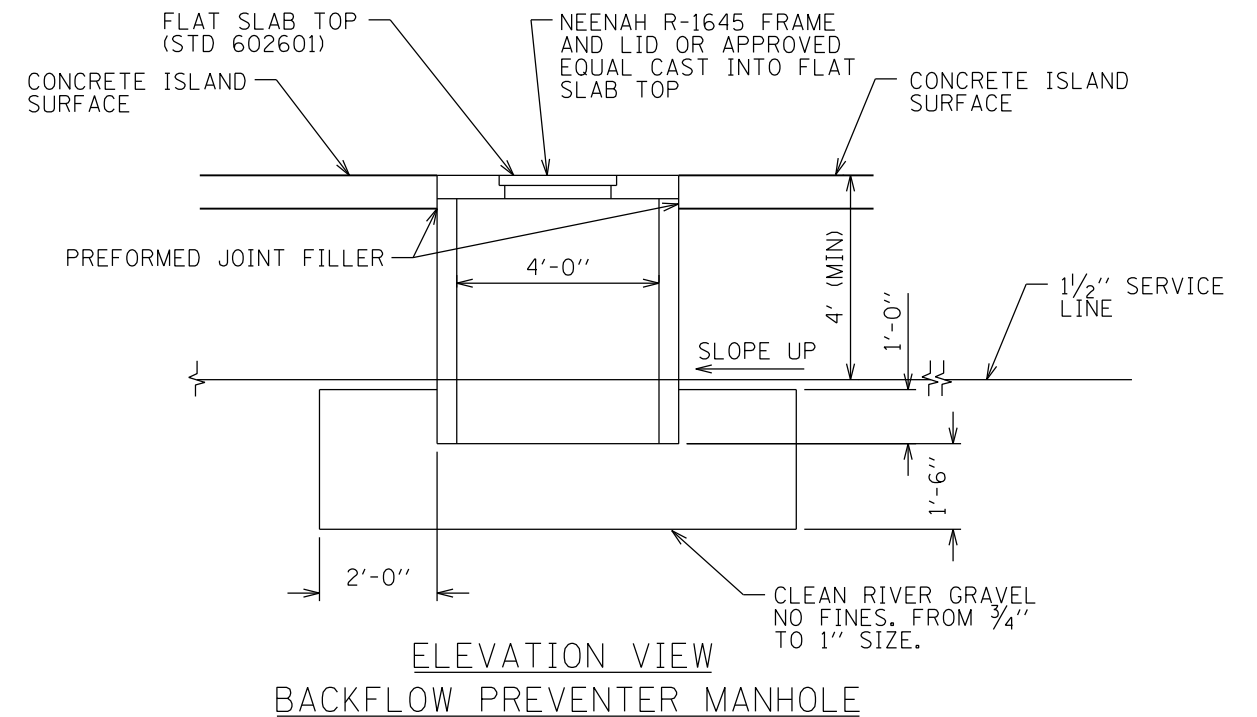
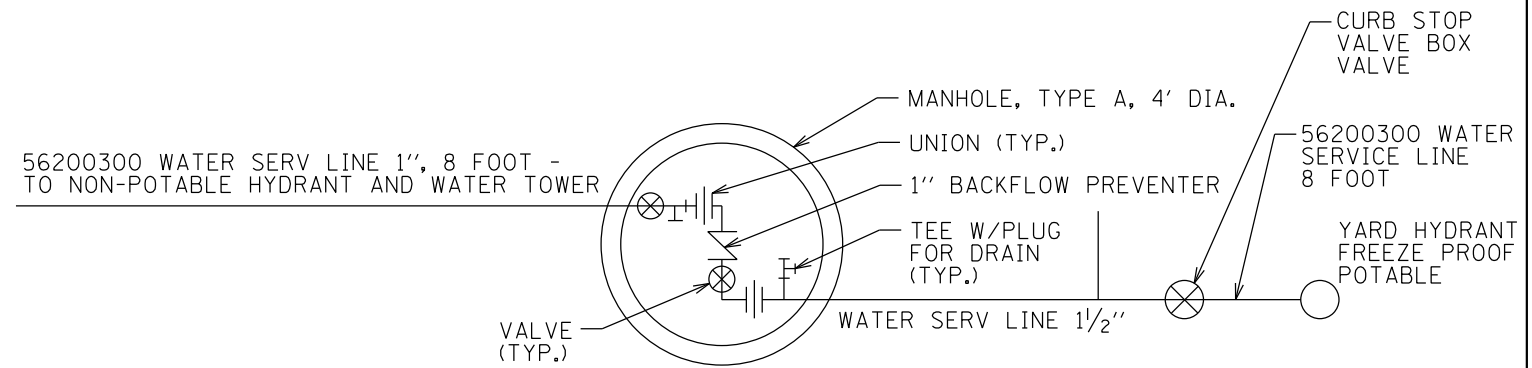
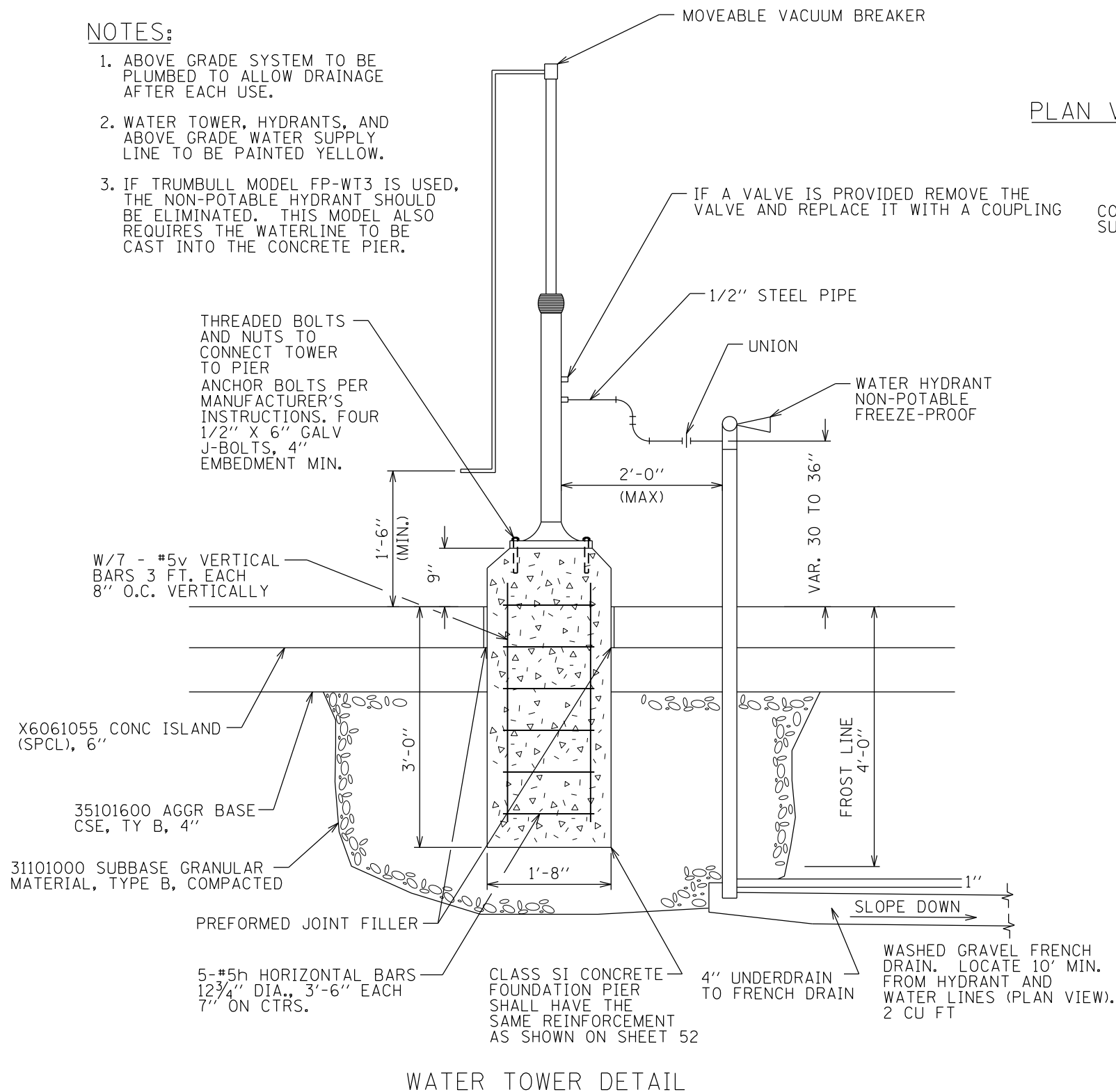
SCALE: SHEET 46 OF 71 SHEETS STA. TO STA.

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 46        |
| ILLINOIS FED. AID PROJECT |                    |        | CONTRACT NO. 46418 |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

**NOTES:**

1. ABOVE GRADE SYSTEM TO BE PLUMBED TO ALLOW DRAINAGE AFTER EACH USE.
2. WATER TOWER, HYDRANTS, AND ABOVE GRADE WATER SUPPLY LINE TO BE PAINTED YELLOW.
3. IF TRUMBULL MODEL FP-WT3 IS USED, THE NON-POTABLE HYDRANT SHOULD BE ELIMINATED. THIS MODEL ALSO REQUIRES THE WATERLINE TO BE CAST INTO THE CONCRETE PIER.



|                                     |                             |                   |           |
|-------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = sht_47 Dump Station.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
|                                     |                             | DRAWN - B.T.M.    | REVISED - |
|                                     | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |
| Default                             | PLOT DATE = 2/1/2017        | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|   |                                    |
|---|------------------------------------|
| <b>DUMP STATION DETAILS</b>                       |                                    |
| <b>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                                    |
| SCALE: NTS  | SHEET 47 OF 71 SHEETS STA. TO STA. |

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 47        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

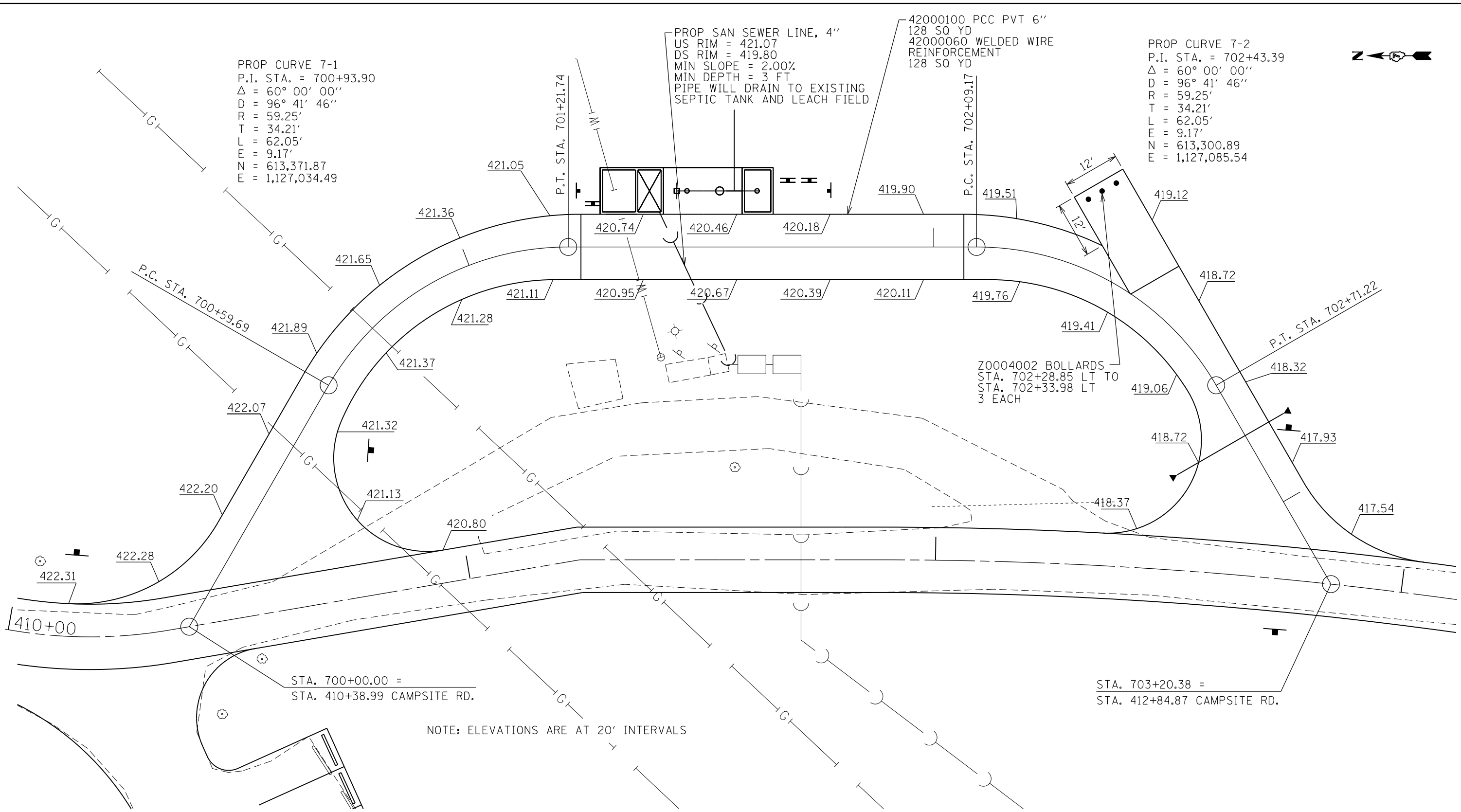


PROP CURVE 7-1  
 P.I. STA. = 700+93.90  
 $\Delta = 60^\circ 00' 00''$   
 D = 96' 41' 46"  
 R = 59.25'  
 T = 34.21'  
 L = 62.05'  
 E = 9.17'  
 N = 613,371.87  
 E = 1,127,034.49

PROP SAN SEWER LINE, 4"  
 US RIM = 421.07  
 DS RIM = 419.80  
 MIN SLOPE = 2.00%  
 MIN DEPTH = 3 FT  
 PIPE WILL DRAIN TO EXISTING  
 SEPTIC TANK AND LEACH FIELD

42000100 PCC PVT 6"  
 128 SQ YD  
 42000060 WELDED WIRE  
 REINFORCEMENT  
 128 SQ YD

PROP CURVE 7-2  
 P.I. STA. = 702+43.39  
 $\Delta = 60^\circ 00' 00''$   
 D = 96' 41' 46"  
 R = 59.25'  
 T = 34.21'  
 L = 62.05'  
 E = 9.17'  
 N = 613,300.89  
 E = 1,127,085.54



STA. 700+00.00 =  
 STA. 410+38.99 CAMP SITE RD.

STA. 703+20.38 =  
 STA. 412+84.87 CAMP SITE RD.

NOTE: ELEVATIONS ARE AT 20' INTERVALS

SCALE: 1" = 10'

|  |                                |                      |           |   |   |                           |                       |        |              |                    |
|--|--------------------------------|----------------------|-----------|---|---|---------------------------|-----------------------|--------|--------------|--------------------|
| FILE NAME =<br>sht_48 Dump Station.dgn | USER NAME =<br>stevek          | DESIGNED -<br>R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PROPOSED DUMP STATION PAVEMENT ELEVATIONS<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTE.                 | SECTION               | COUNTY | TOTAL SHEETS | SHEET NO.          |
| Default                                | PLOT SCALE =<br>20.0000' / in. | DRAWN -<br>B.T.M.    | REVISED - |   |   | PARK ROADS 2017-02        | WABASH                | 71     | 48           | CONTRACT NO. 46418 |
|  | PLOT DATE =<br>2/1/2017        | CHECKED -<br>R.H.D.  | REVISED - |   |   | ILLINOIS FED. AID PROJECT |                       |        |              |                    |
|  |                                | DATE -<br>2/3/17     | REVISED - |   |   | SCALE:                    | SHEET 48 OF 71 SHEETS | STA.   | TO STA.      |                    |

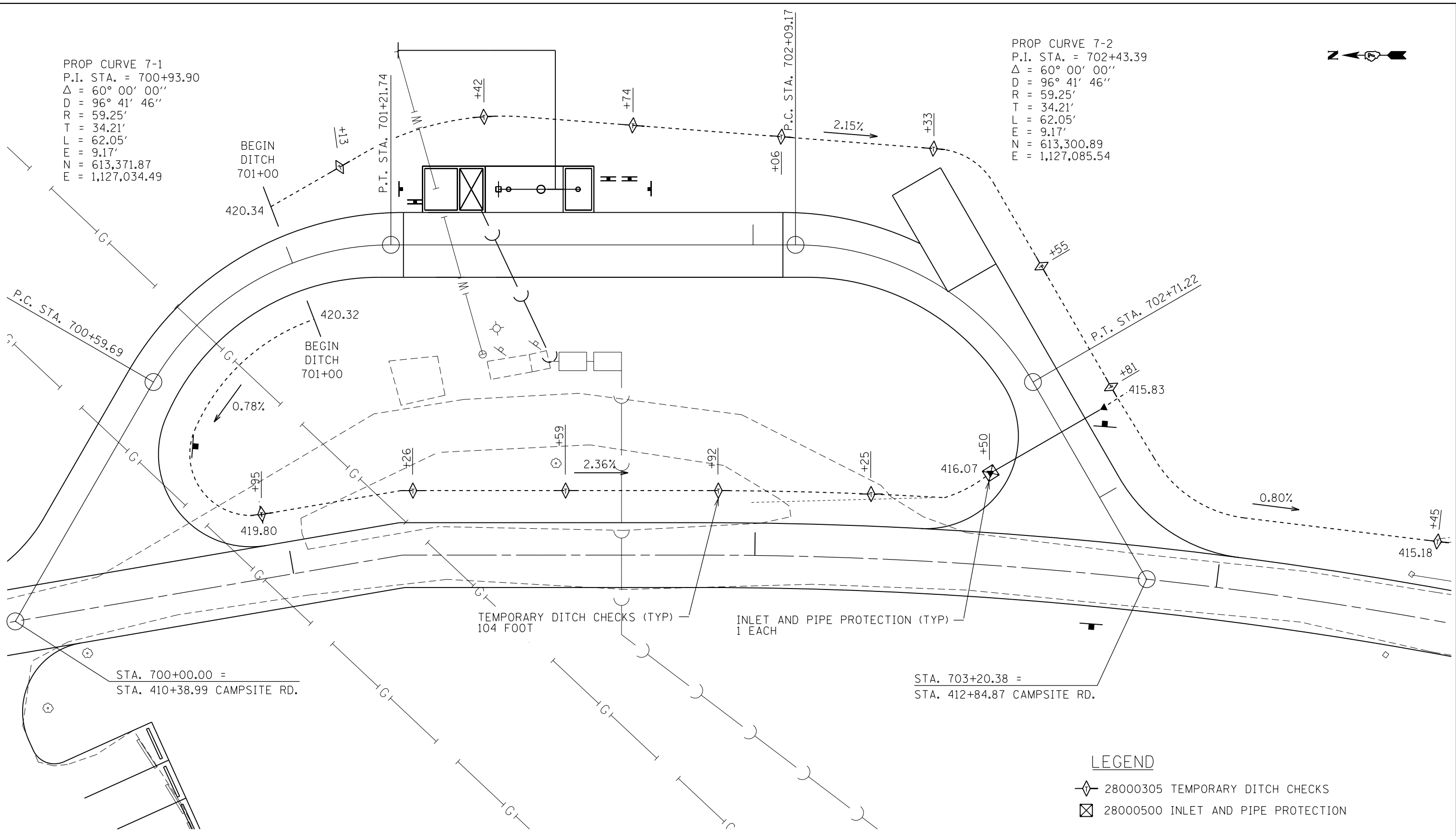
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107





PROP CURVE 7-1  
 P.I. STA. = 700+93.90  
 $\Delta = 60^\circ 00' 00''$   
 $D = 96^\circ 41' 46''$   
 $R = 59.25'$   
 $T = 34.21'$   
 $L = 62.05'$   
 $E = 9.17'$   
 $N = 613,371.87$   
 $E = 1,127,034.49$

PROP CURVE 7-2  
 P.I. STA. = 702+43.39  
 $\Delta = 60^\circ 00' 00''$   
 $D = 96^\circ 41' 46''$   
 $R = 59.25'$   
 $T = 34.21'$   
 $L = 62.05'$   
 $E = 9.17'$   
 $N = 613,300.89$   
 $E = 1,127,085.54$



TEMPORARY DITCH CHECKS (TYP)  
 104 FOOT

INLET AND PIPE PROTECTION (TYP)  
 1 EACH

- LEGEND**
- ◆ 28000305 TEMPORARY DITCH CHECKS
  - ⊠ 28000500 INLET AND PIPE PROTECTION

NOTE: CONTRACTOR TO ADJUST DITCH SLOPES AS NECESSARY TO ASSURE ADEQUATE COVER FOR THE SANITARY SEWER

FILE NAME =  
 sht\_49 Dump Station.dgn

USER NAME = stevek

PLOT SCALE = 20.0000' / in.

PLOT DATE = 2/1/2017

DESIGNED - R.H.D.

DRAWN - B.T.M.

CHECKED - R.H.D.

DATE - 2/3/17

REVISED -

REVISED -

REVISED -

REVISED -

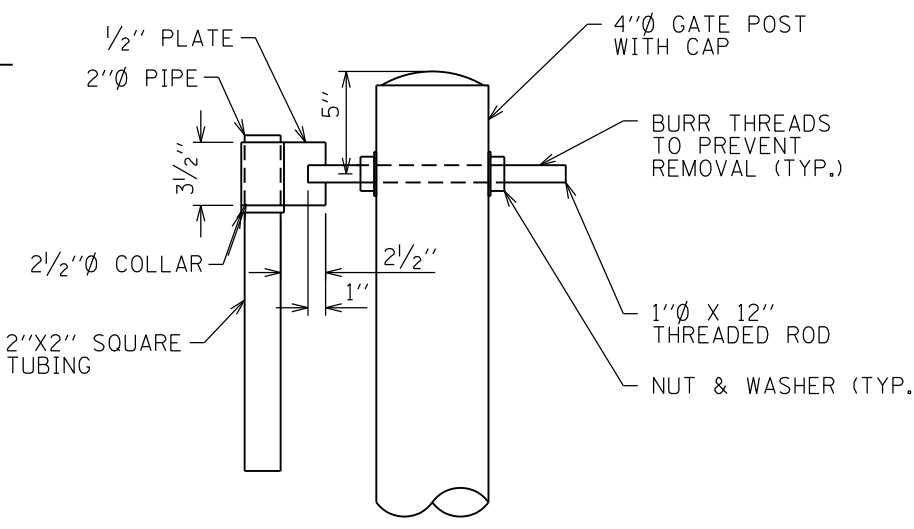
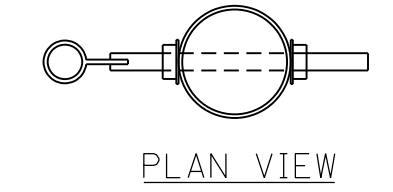
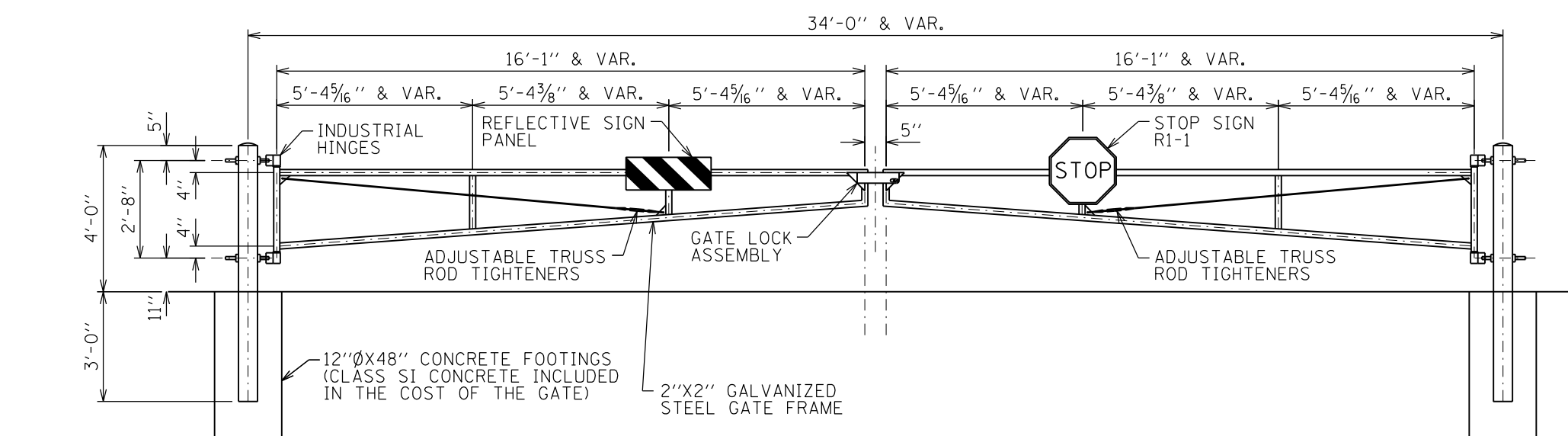
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED DUMP STATION DITCH LAYOUT**  
**BEALL WOODS STATE PARK AND NATURE PRESERVE**

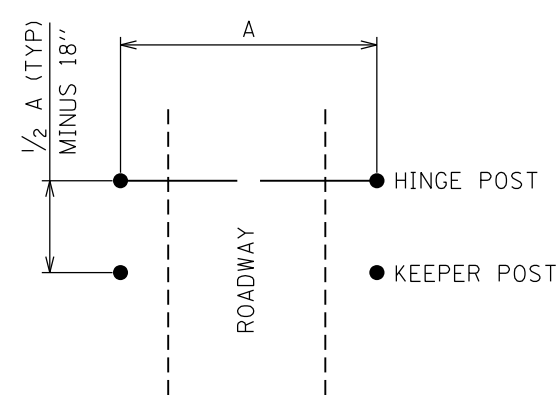
SCALE: 1" = 10' SHEET 49 OF 71 SHEETS STA. TO STA.

| F.A. RTÉ.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 49        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



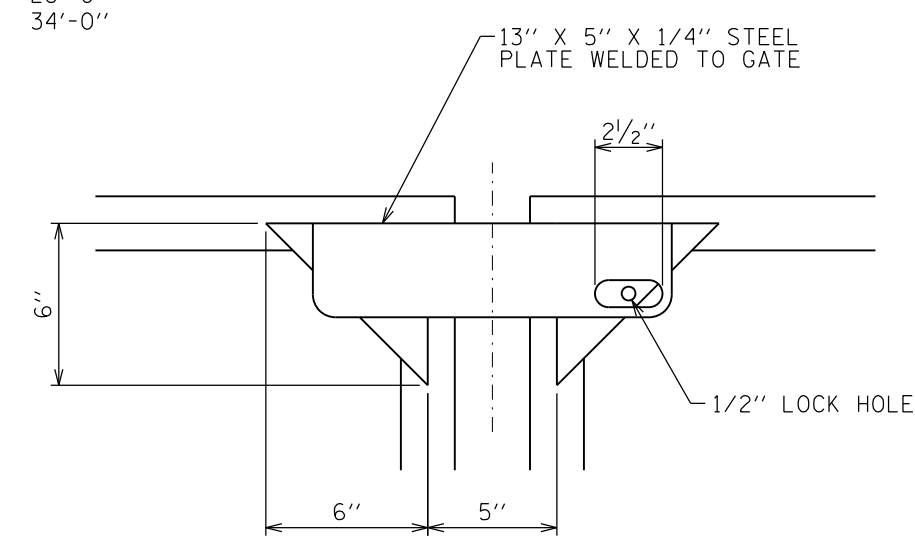
TOP GATE HINGE



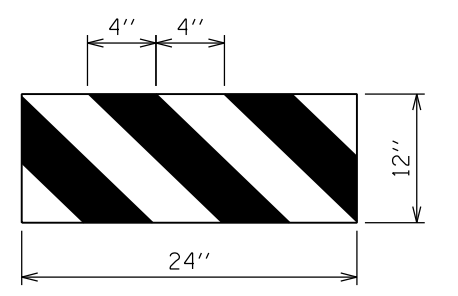
PLAN VIEW

X0323013 TUBULAR STEEL GATE

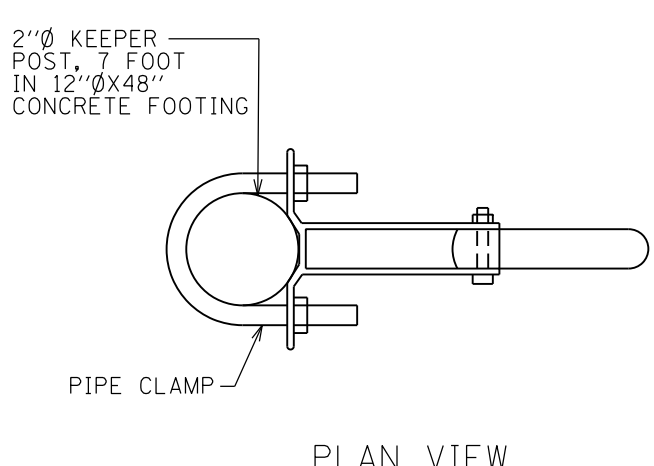
|           |        |
|-----------|--------|
| STA.      | A      |
| 137+59.93 | 28'-0" |
| 139+84.77 | 34'-0" |



GATE LOCK ASSEMBLY

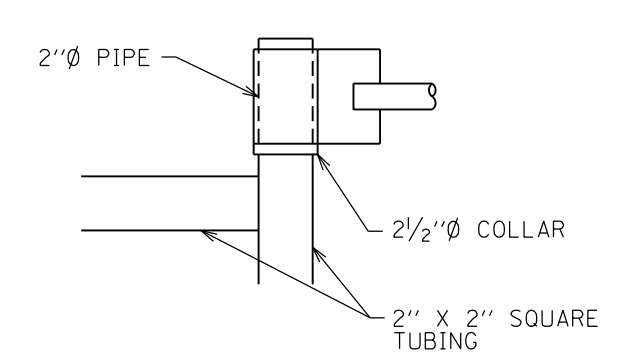
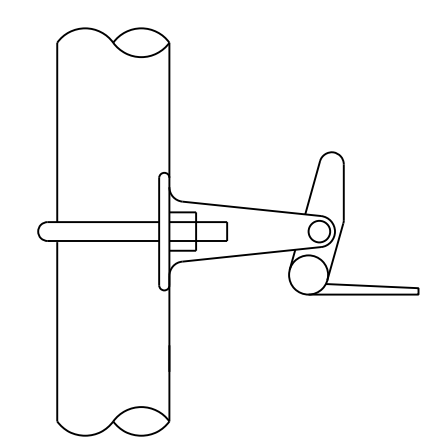


HORIZONTAL PANEL DETAIL

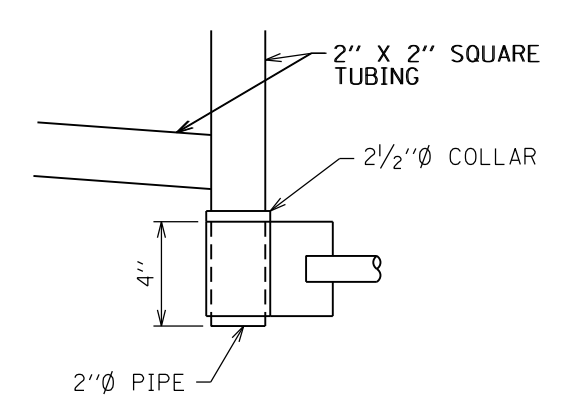


PLAN VIEW

AUTOMATIC GATE KEEPER



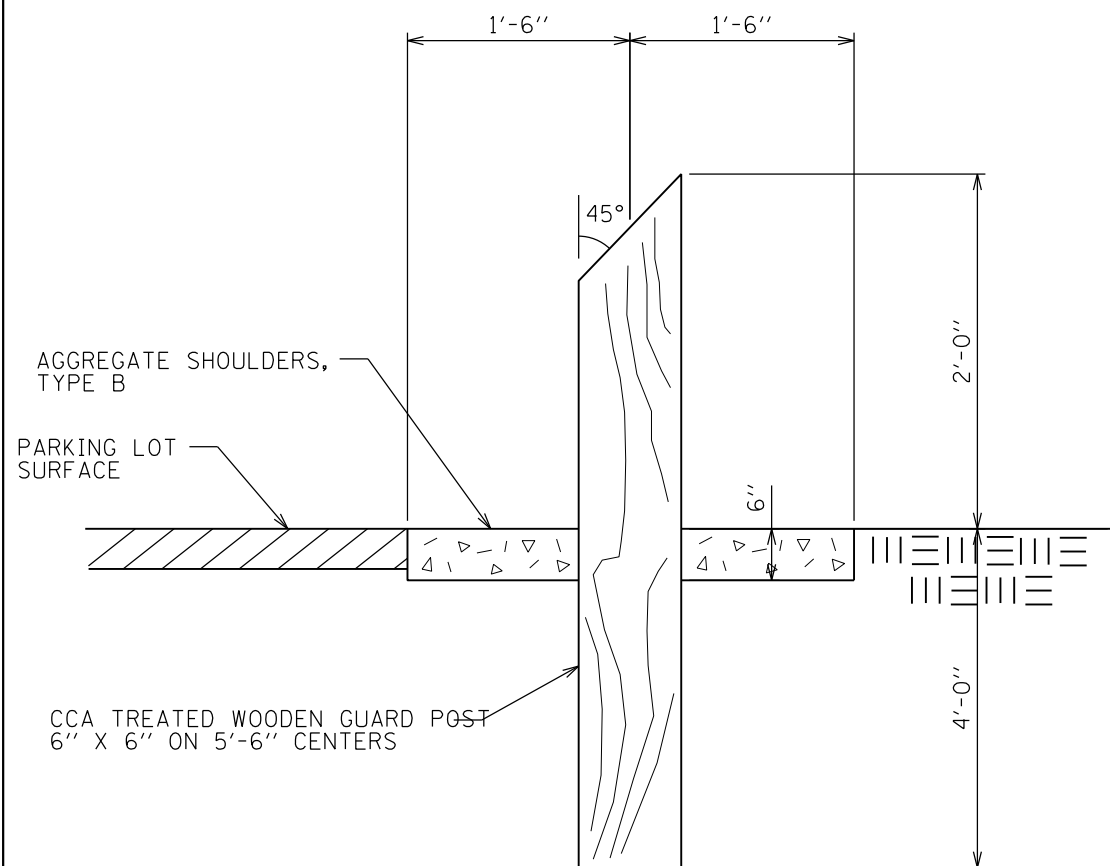
DETAIL AT TOP HINGE



DETAIL AT BOTTOM HINGE

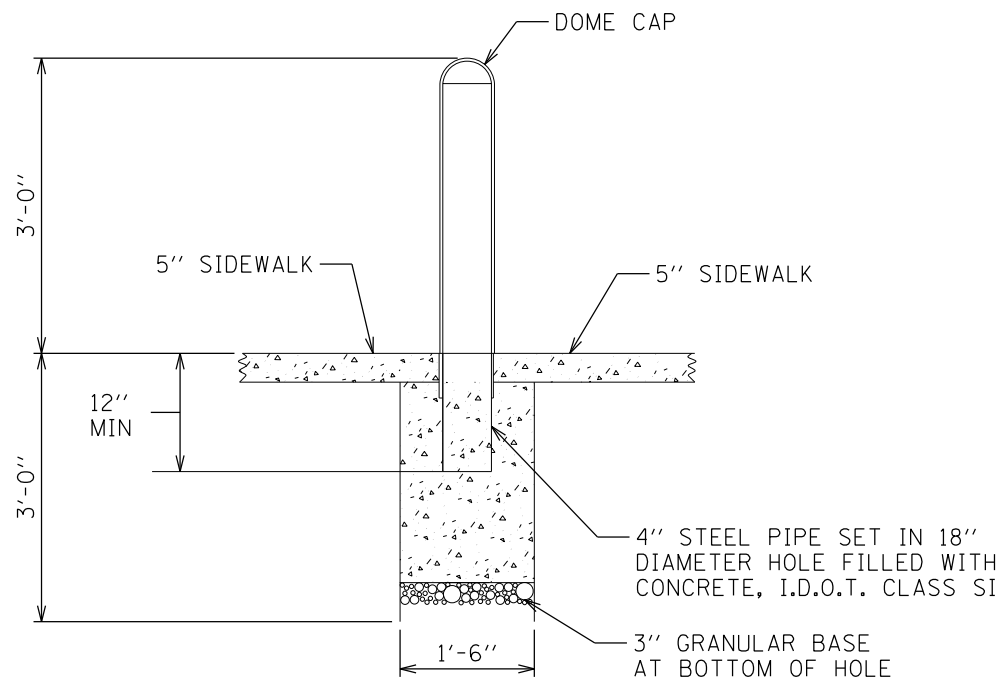
|                                   |                             |                   |           |   |  |                           |         |        |              |           |
|-----------------------------------|-----------------------------|-------------------|-----------|---|--|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = sht.50 Steel Gate.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>TUBULAR STEEL GATE DETAILS<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> | F.A. RTE.                 | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default                           | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |   |  | PARK ROADS 2017-02        | WABASH  | 71     | 50           |           |
|                                   | PLOT DATE = 2/1/2017        | CHECKED - R.H.D.  | REVISED - |   |  | CONTRACT NO. 46418        |         |        |              |           |
|                                   |                             | DATE - 2/3/17     | REVISED - |   |  | ILLINOIS FED. AID PROJECT |         |        |              |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

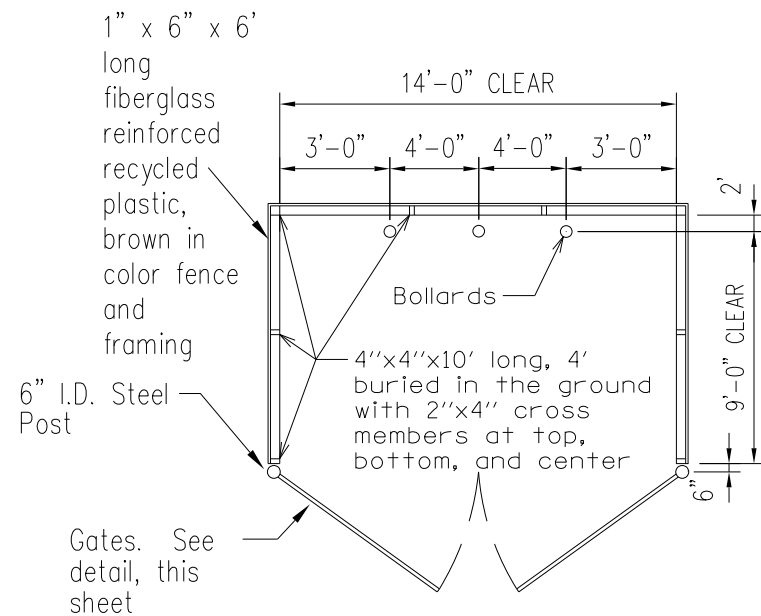


NOTE: 3' AGGR SHOULDERS, TYPE B, SHALL BE CONSTRUCTED A UNIFORM 6" THICK AT GUARD POST LOCATIONS.

**GUARD POST**

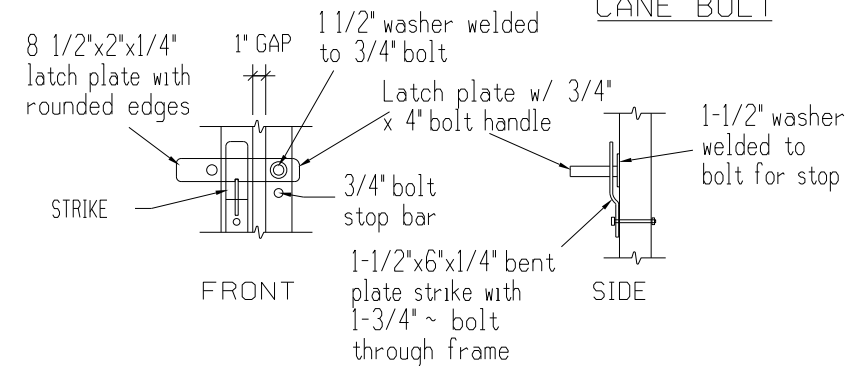
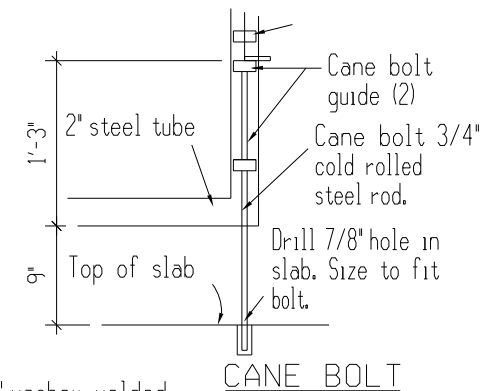


**BOLLARD DETAIL**



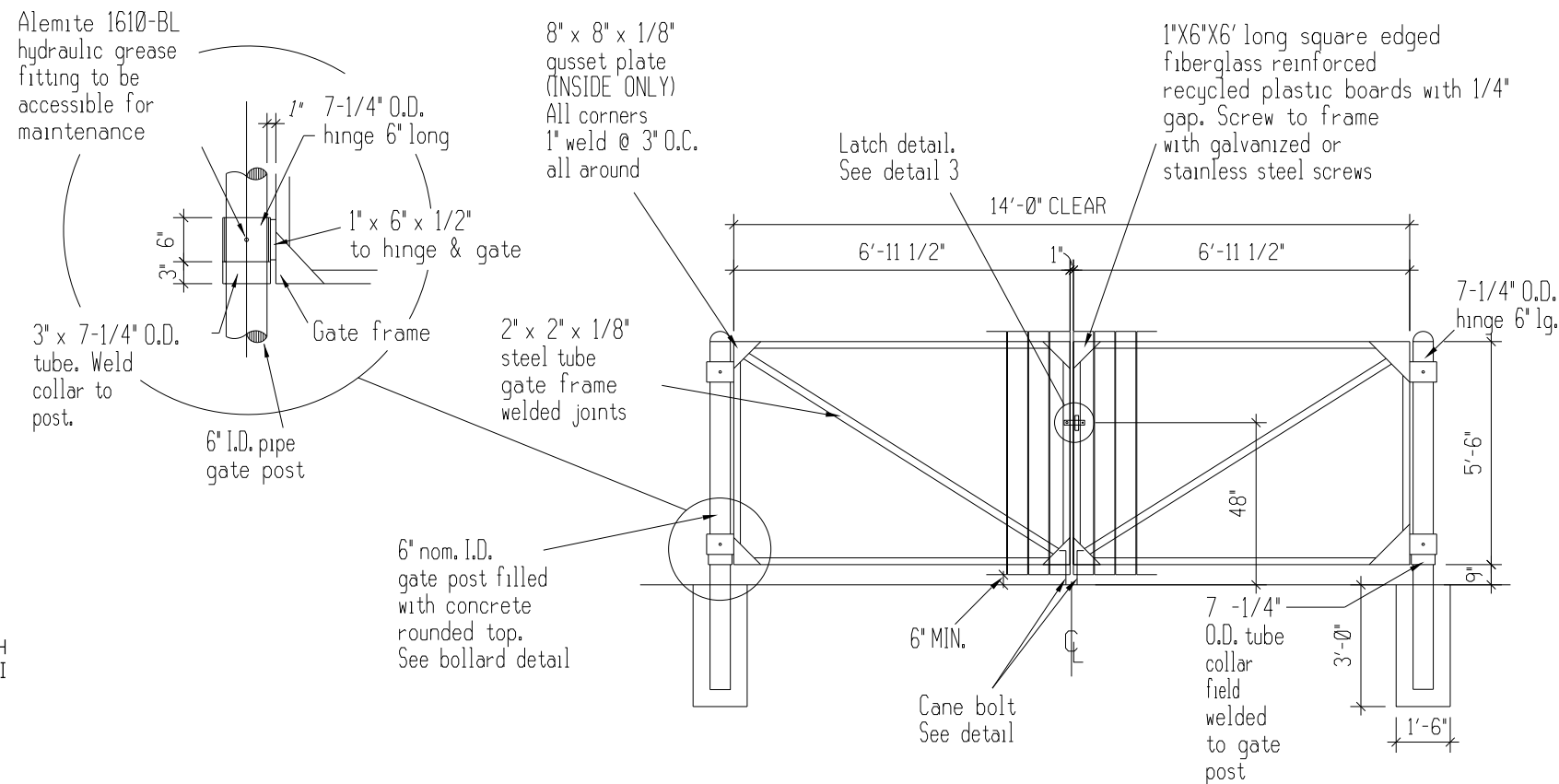
**X2200003 FENCE (SPECIAL)**

NOTE:  
MOUNT CANE BOLT AND GATE LATCH ASSEMBLIES THROUGH FACE BOARDS INTO STEEL FRAME



**DOUBLE GATE LATCH**

**GATE LATCH/BOLT DETAIL**



**GATE DETAIL FOR DUMPSTER ENCLOSURE**

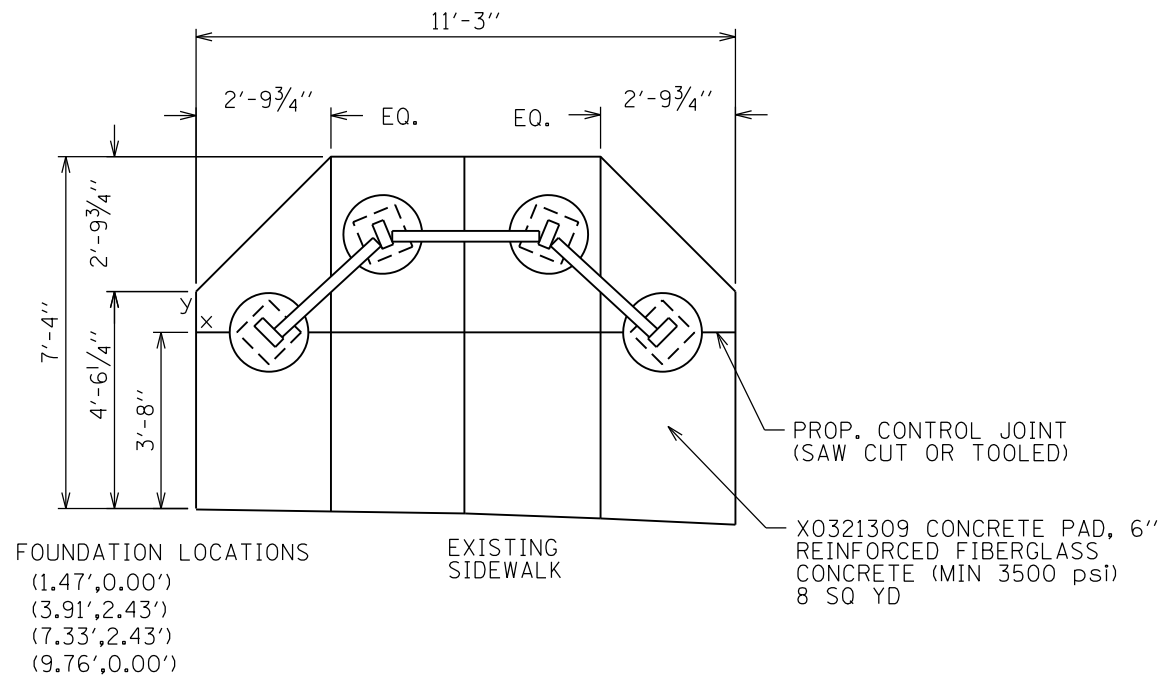
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| FILE NAME = sht.51 Bollards.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
|                                 |                             | DRAWN - B.T.M.    | REVISED - |
|                                 | PLOT SCALE = 40.0000' / in. | CHECKED - R.H.D.  | REVISED - |
| Default                         | PLOT DATE = 2/2/2017        | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

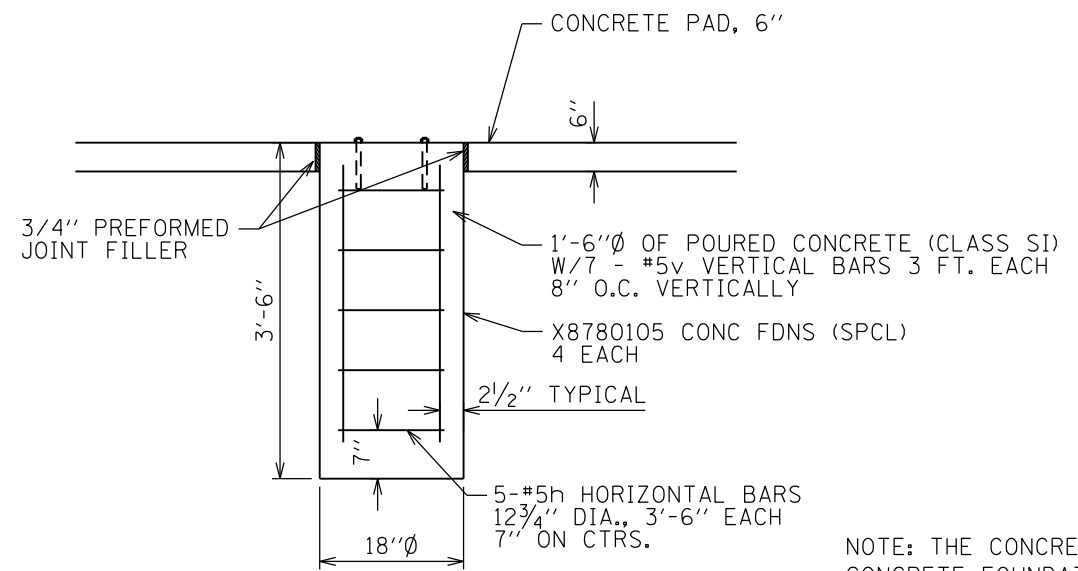
**BOLLARD, GUARD POSTS AND DUMPSTER ENCLOSURE DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: NTS SHEET 51 OF 71 SHEETS STA. TO STA.

|                    |                    |        |                           |           |
|--------------------|--------------------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | PARK ROADS 2017-02 | WABASH | 71                        | 51        |
| CONTRACT NO. 46418 |                    |        | ILLINOIS FED. AID PROJECT |           |

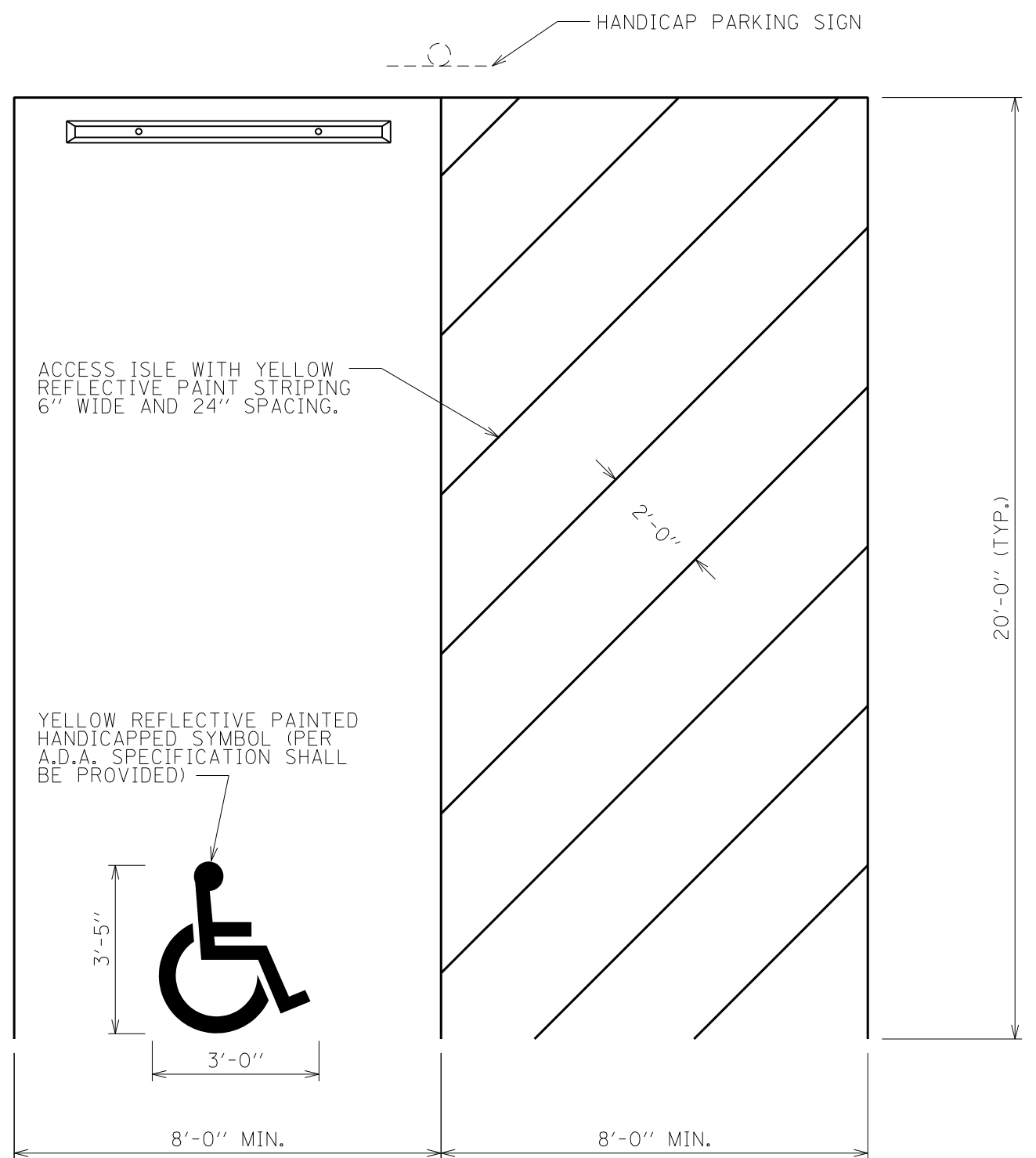


CONCRETE PAD DETAILS



PIER FOUNDATION DETAIL

NOTE: THE CONCRETE PAD AND THE CONCRETE FOUNDATIONS SHALL BE CONSTRUCTED AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL SET THE EXISTING KIOSK ANCHORS IN THE NEW CONCRETE. SITE STAFF WILL PROVIDE THE ANCHORS TO THE CONTRACTOR, AND WILL INSTALL THE KIOSK AT A LATER TIME.



HANDICAP PARKING SPACE DETAIL

|                              |                             |                   |           |
|------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME = sht_52 Kiosk.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                      | PLOT SCALE = 40.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                              | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                              |                             | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KIOSK AND HANDICAP STRIPING DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE  
SCALE: SHEET 52 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 52        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

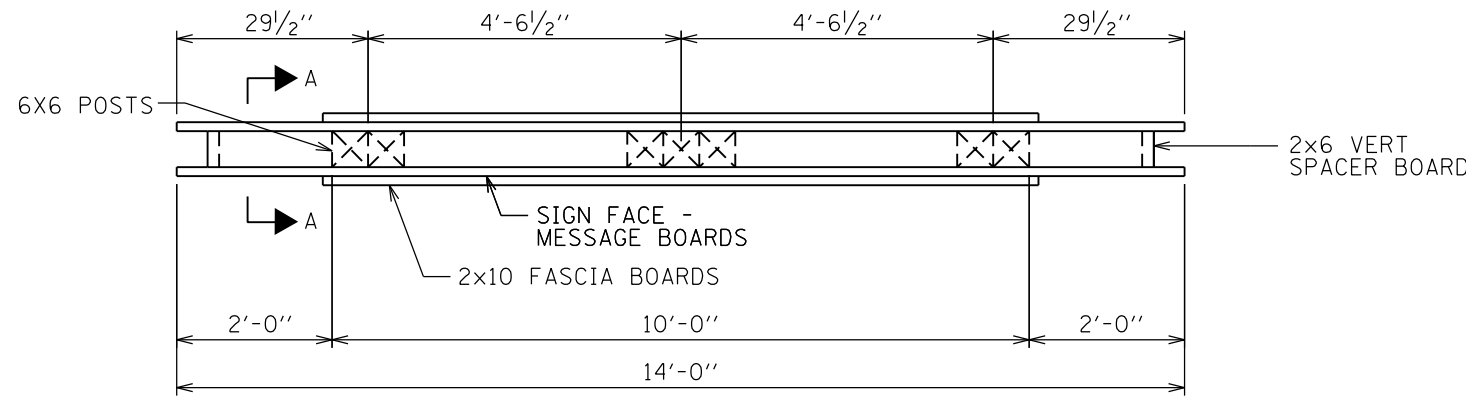
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

FIBERGLASS REINFORCED RECYCLED PLASTIC LUMBER MATERIALS LIST:  
ALL ITEMS TO BE BROWN IN COLOR

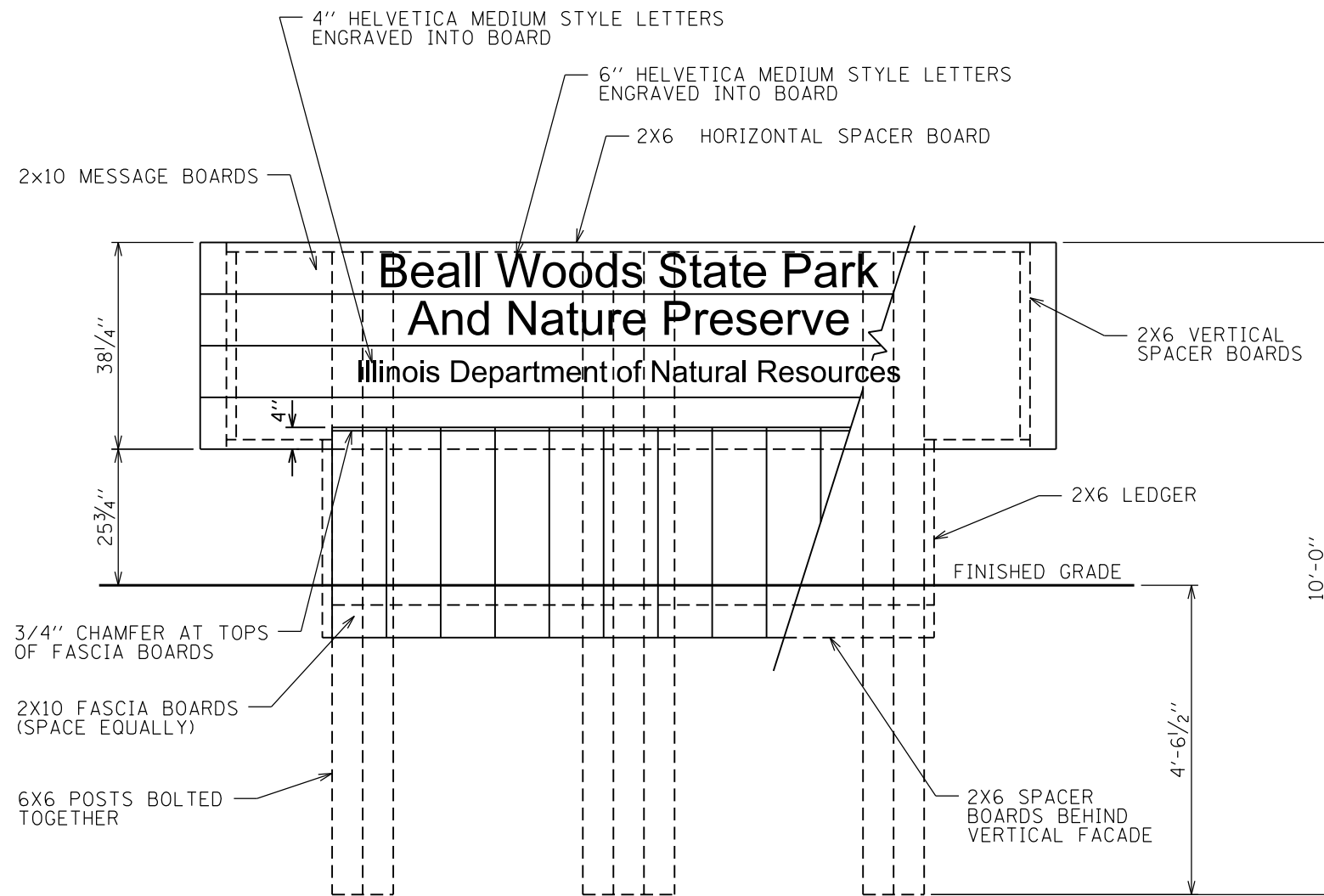
| ITEM                        | LENGTH | QUAN.  | REMARKS                                |
|-----------------------------|--------|--------|--|
| 6X6 POST                    | 10'-0" | 7 EA.  | 10'-0"                                 |
| 2X6 SPACER AND LEDGER BOARD | 14'-0" | 4 EA.  | CUT VARIOUS LENGTHS TO FIT             |
| 2X10 MESSAGE BOARD          | 14'-0" | 8 EA.  | 14'-0"                                 |
| 2X10 BOTTOM FASCIA BOARDS   | 3'-4"  | 28 EA. | SEE DETAIL VIEW - CHAMFER TOP OF BOARD |

GENERAL NOTES:

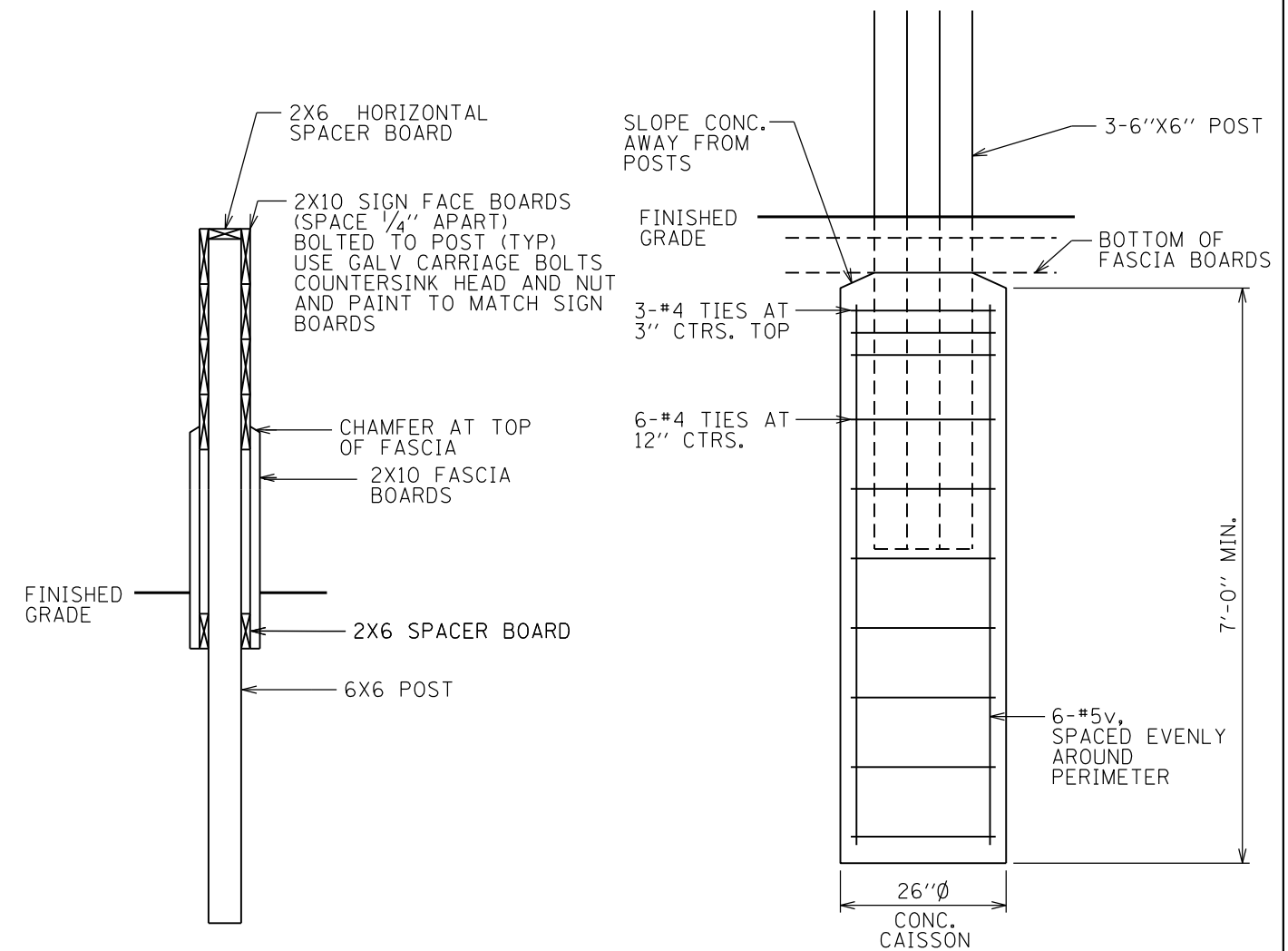
- ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR WITH A WHITE CORE. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
- ALL LETTERING IS TO BE HELVETICA MEDIUM W/UPPER AND LOWER CASE LETTERS. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM.



TOP VIEW



**E**  
1 FRONT VIEW (LETTERING IS REPEATED ON OPPOSITE SIDE)



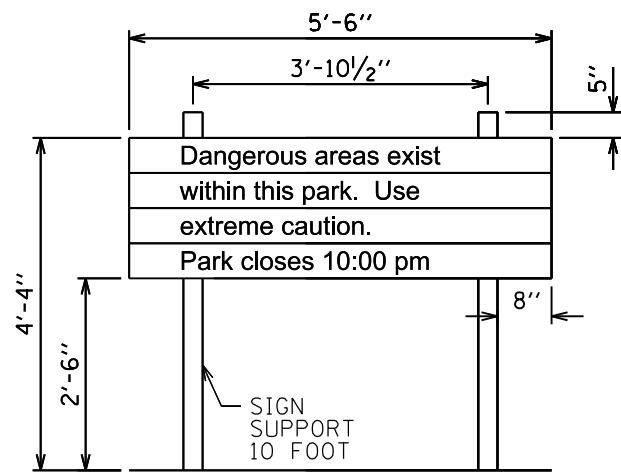
SECTION A-A

SECTION THRU FOUNDATION

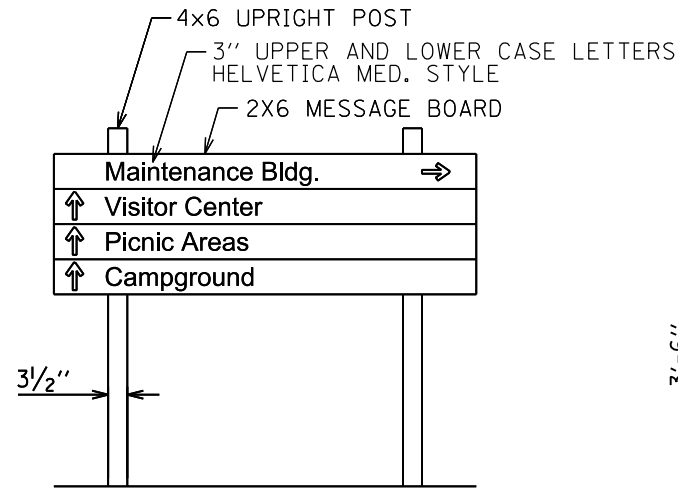
f'c = 4,000 PSI  
Fy = 60,000 PSI (REINF.)

|                              |                             |                   |           |   |   |                       |           |         |                    |              |           |    |
|------------------------------|-----------------------------|-------------------|-----------|---|---|-----------------------|-----------|---------|--------------------|--------------|-----------|----|
| FILE NAME = sht_53 Signs.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ENTRANCE SIGN DETAILS<br/>BEALL WOODS STATE PARK AND NATURE PRESERVE</b> |                       | F.A. RTE. | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |    |
| Default                      | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |   | SCALE:  | SHEET 53 OF 71 SHEETS | STA.      | TO STA. | PARK ROADS 2017-02 | WABASH       | 71        | 53 |
|                              | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |   | CONTRACT NO. 46418  |                       |           |         |                    |              |           |    |
|                              |                             | DATE - 2/3/17     | REVISED - |   | ILLINOIS FED. AID PROJECT   |                       |           |         |                    |              |           |    |

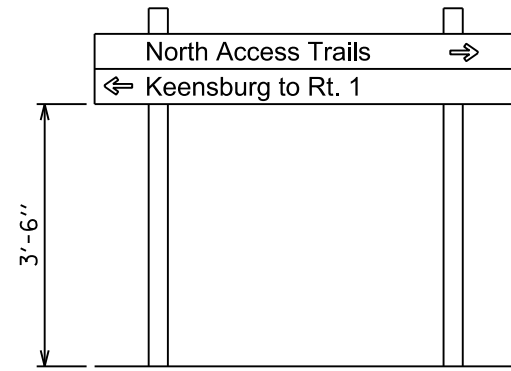
JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



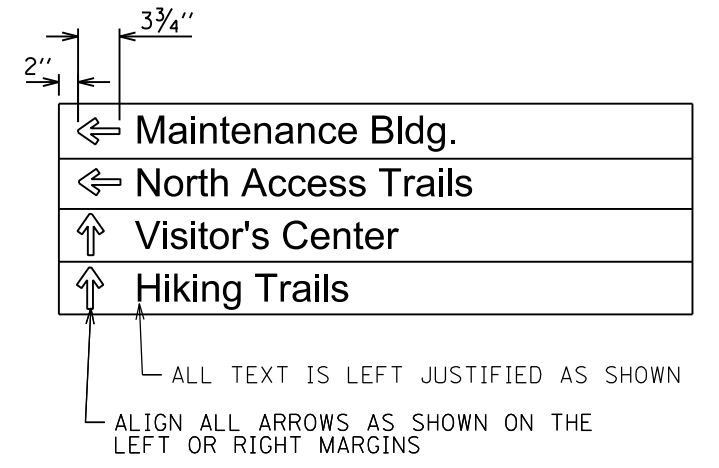
D 102+50 RT  
1 202+00 RT



D 204+50 RT  
2



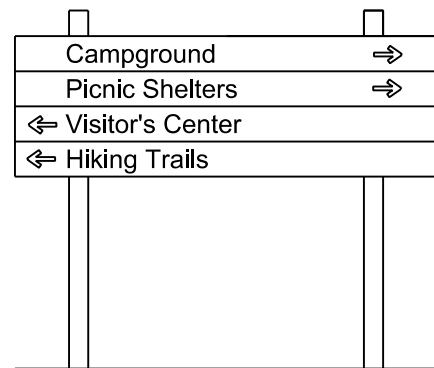
D 201+20 LT  
3



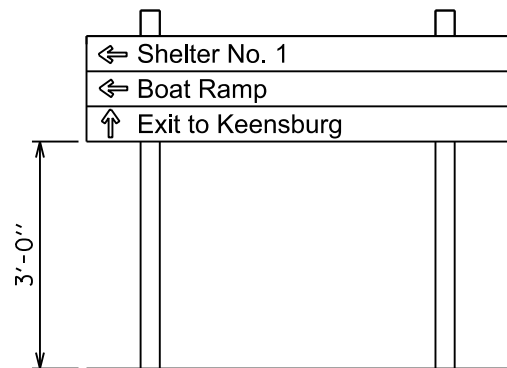
ALIGNMENT DIMENSIONS DETAIL

GENERAL NOTES:

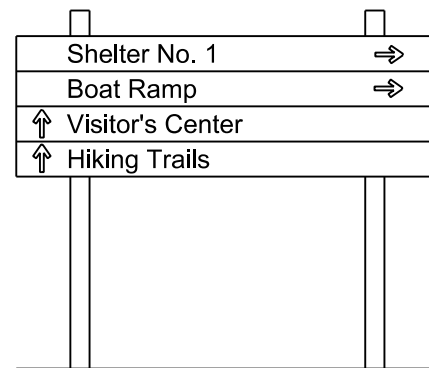
1. ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR WITH A WHITE CORE. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.
2. ALL LETTERING IS TO BE HELVETICA MEDIUM W/UPPER AND LOWER CASE LETTERS. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM.
3. SIGNS SHOULD FACE THE ONCOMING TRAFFIC IN THE LANE CLOSEST TO THE SIGN.



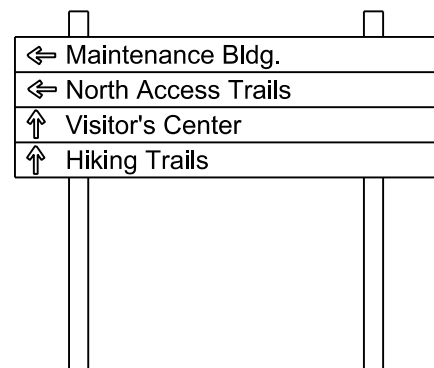
D 208+50 RT  
4



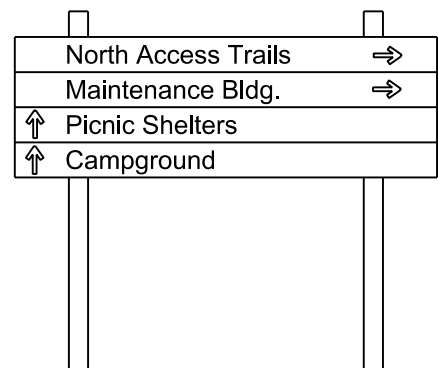
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5



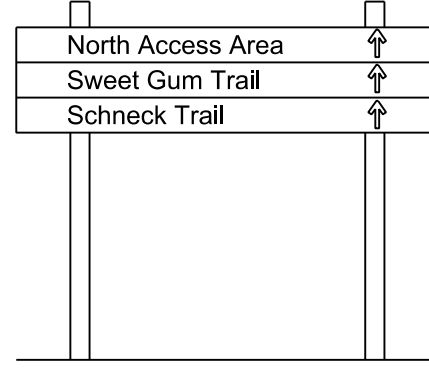
D 107+00 RT  
6



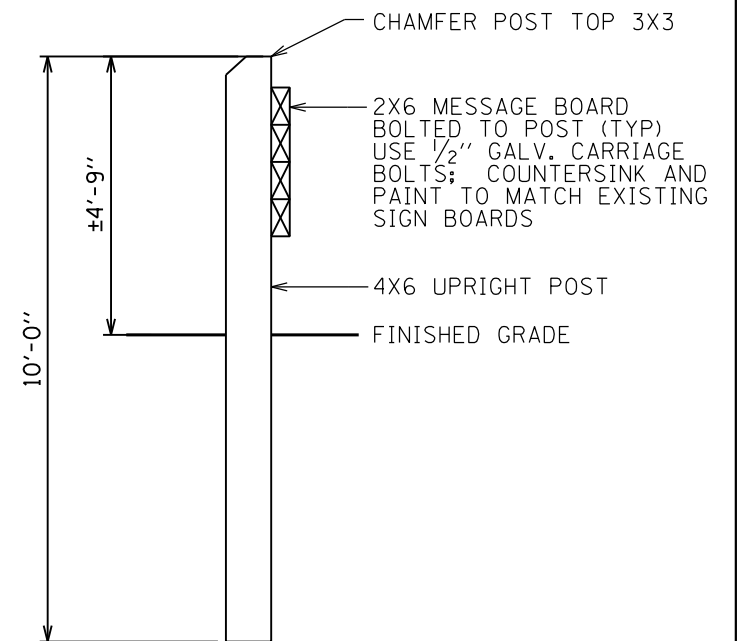
D 124+00 RT  
7



D 125+75 LT  
8



D 141+00 LT  
9



SIDE VIEW

X2600016 MINOR SIGN COMPLETE

|                              |                              |                   |           |
|------------------------------|------------------------------|-------------------|-----------|
| FILE NAME = sht_54 Signs.dgn | USER NAME = stevek           | DESIGNED - R.H.D. | REVISED - |
| Default                      | PLOT SCALE = 10.0000 ' / in. | DRAWN - B.T.M.    | REVISED - |
|                              | PLOT DATE = 2/2/2017         | CHECKED - R.H.D.  | REVISED - |
|                              |                              | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE

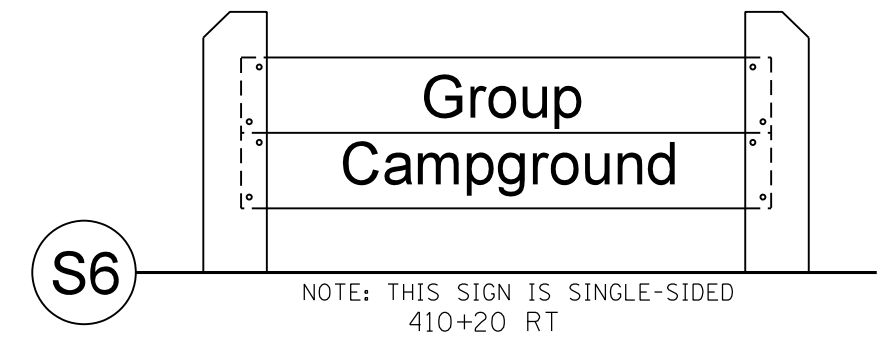
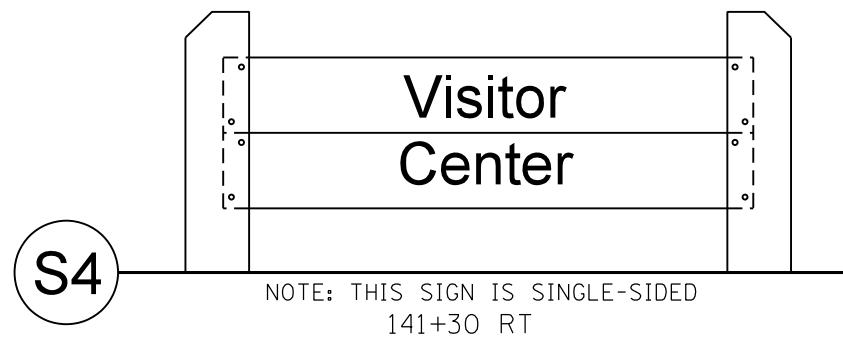
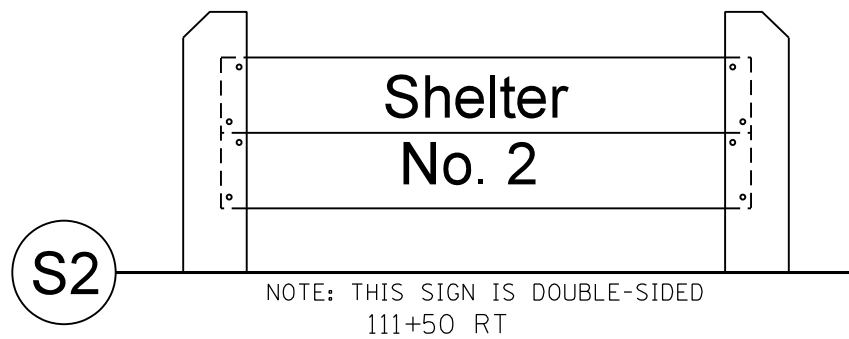
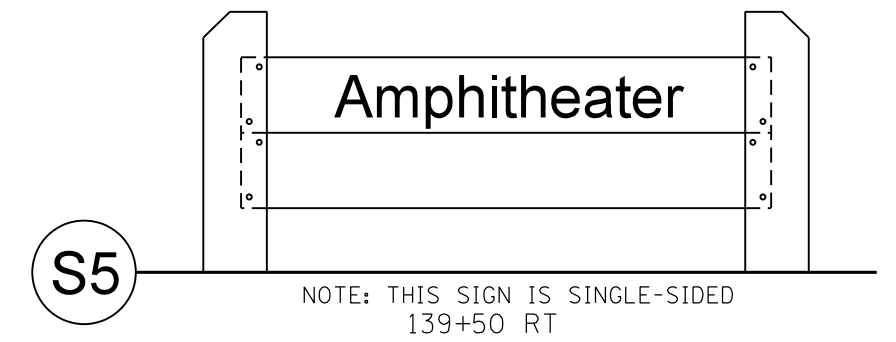
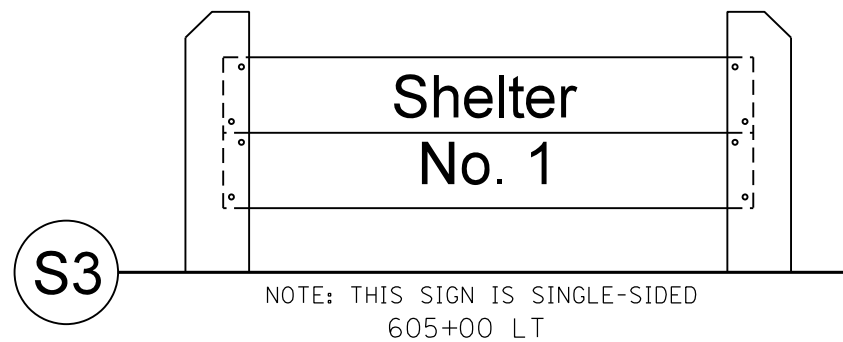
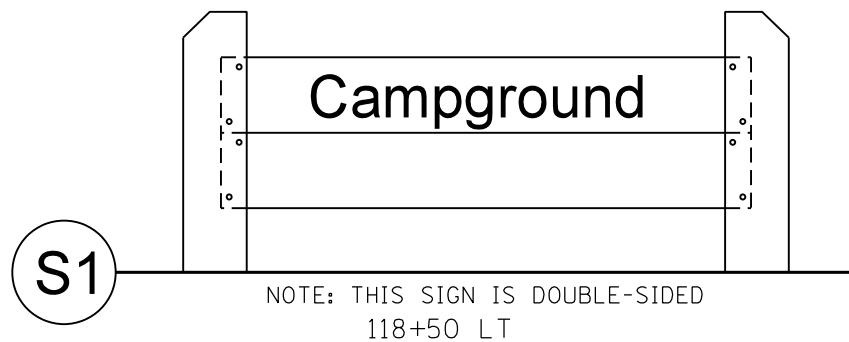
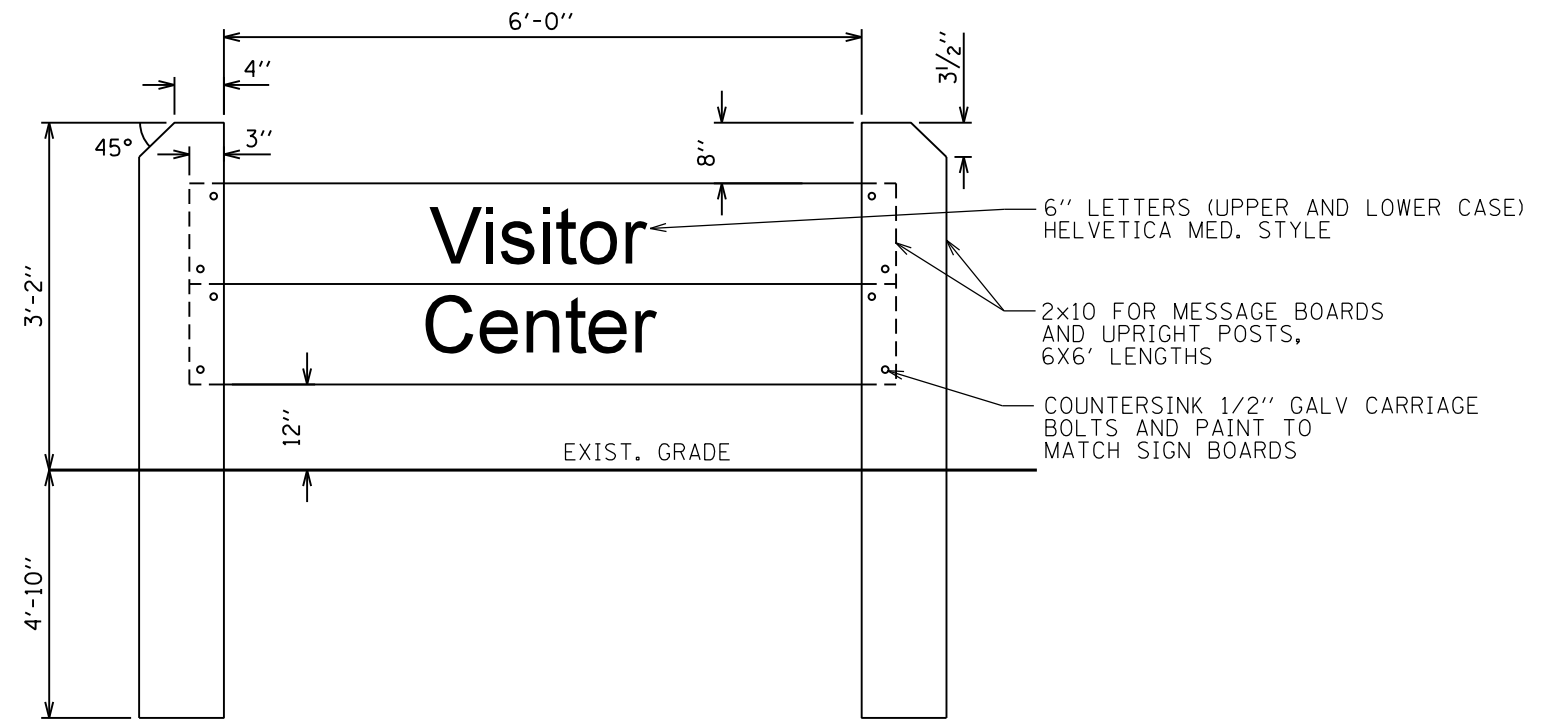
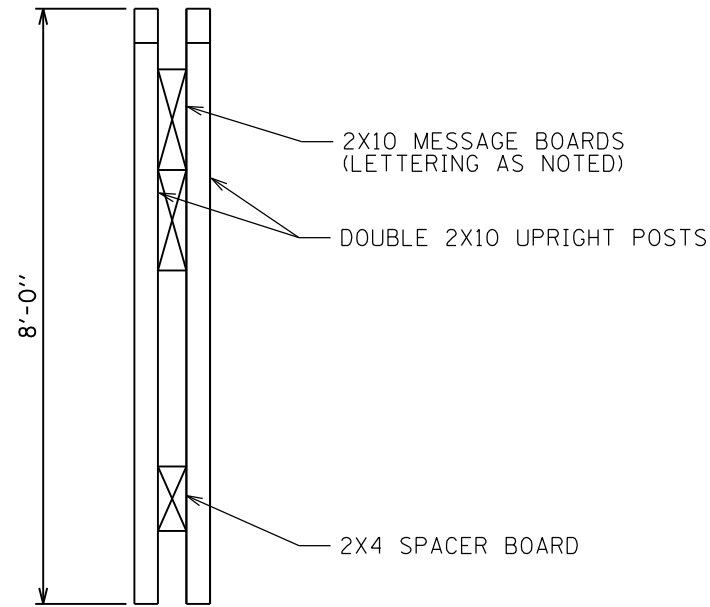
SCALE: SHEET 54 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 54        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

**GENERAL NOTES:**

1. ALL LUMBER IS FIBERGLASS REINFORCED RECYCLED PLASTIC, BROWN IN COLOR. SUBMIT SAMPLES TO IDNR LANDSCAPE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION.

2. ALL LETTERING IS TO BE HELVETICA MEDIUM W/UPPER AND LOWER CASE LETTERS. LETTERS ARE TO BE ENGRAVED WITH A COMPUTER OR TEMPLATE DRIVER ROUTER SYSTEM.



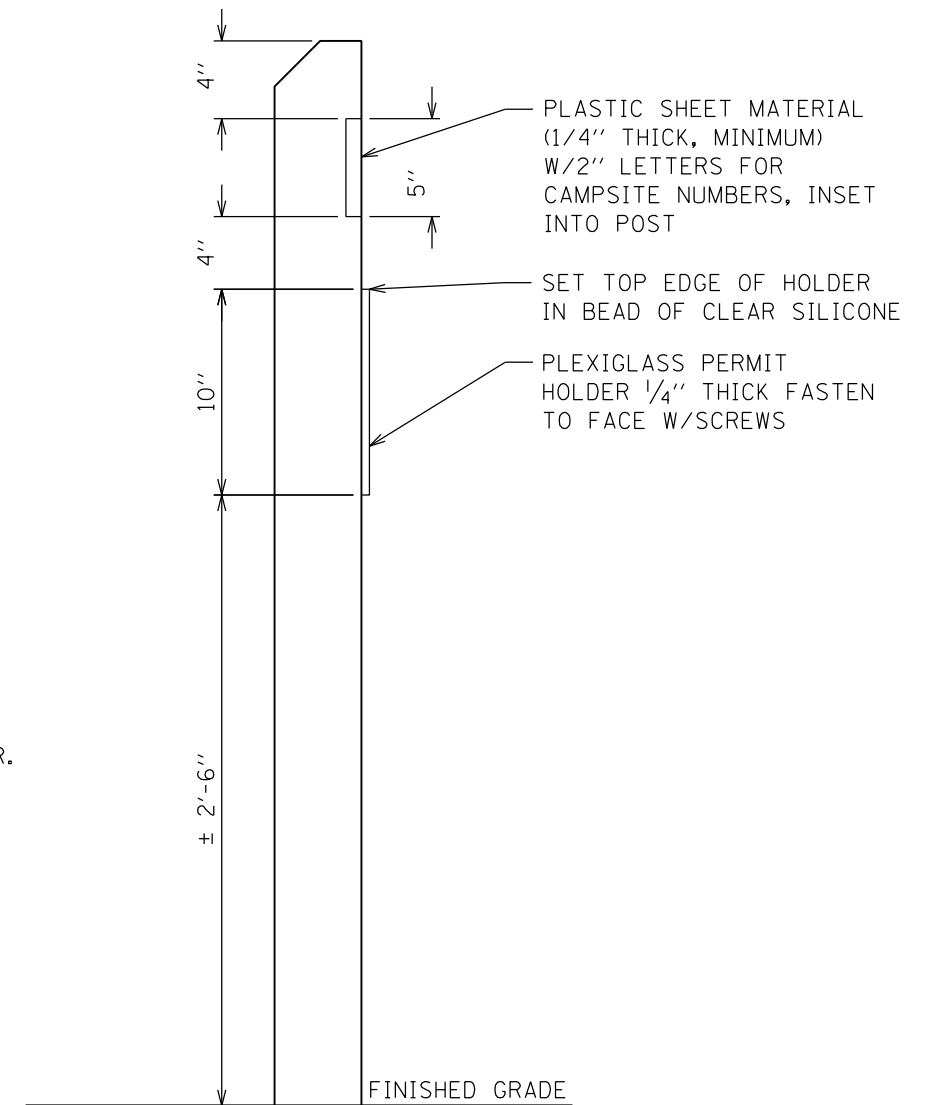
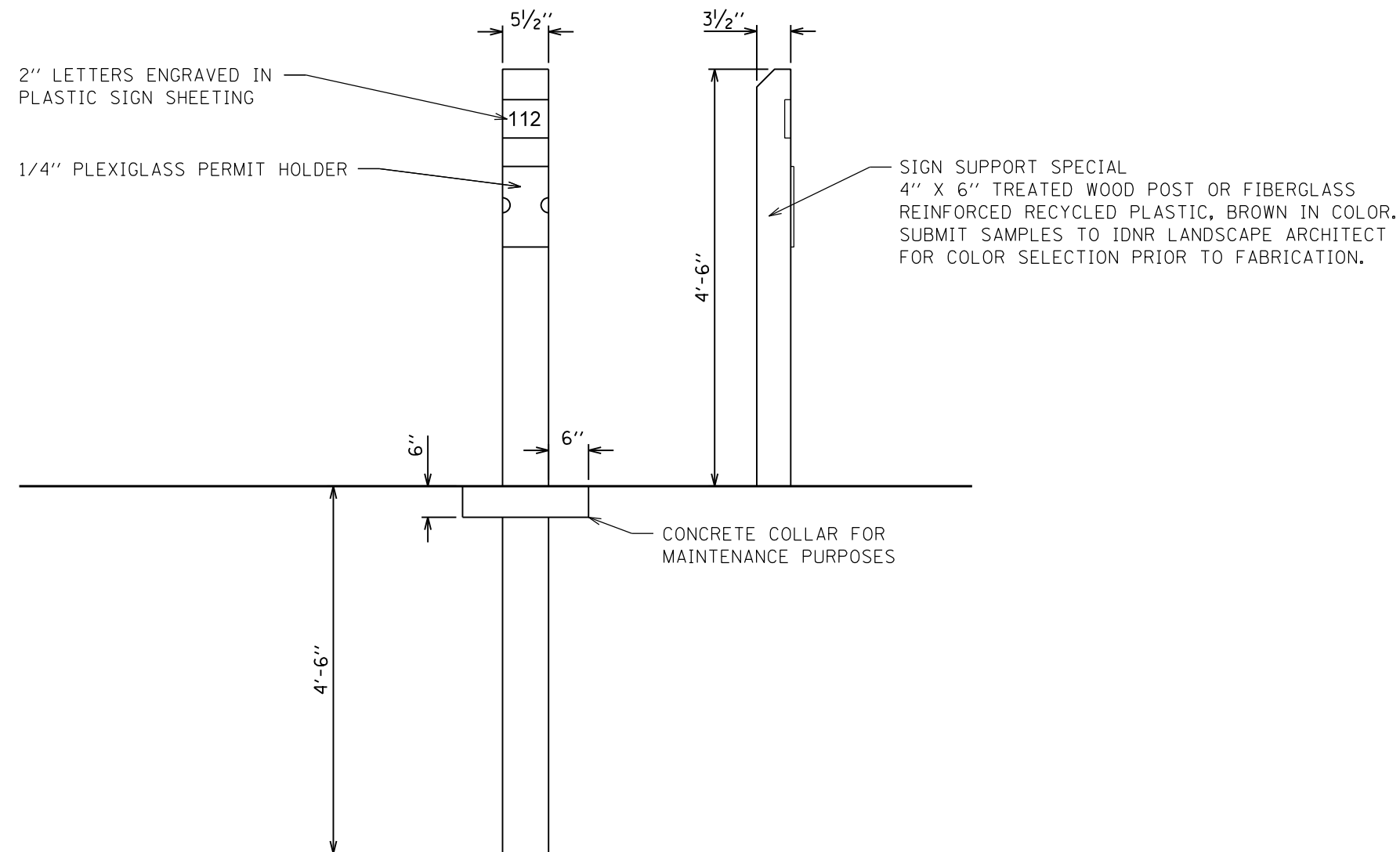
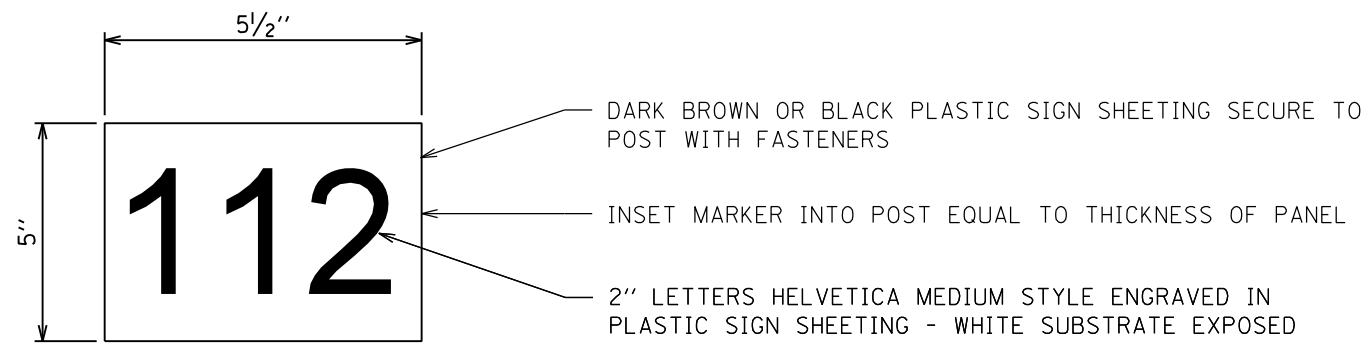
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| Default                         | PLOT SCALE = 10.0000' / 1" | DRAWN - B.T.M.    | REVISED - |
|                                 | PLOT DATE = 2/2/2017       | CHECKED - R.H.D.  | REVISED - |
|                                 |                            | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNS DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE

SCALE: SHEET 55 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 55        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



|                                 |                             |                   |           |
|---------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_56 Signs.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                         | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                 | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                 |                             | DATE - 2/3/17     | REVISED - |

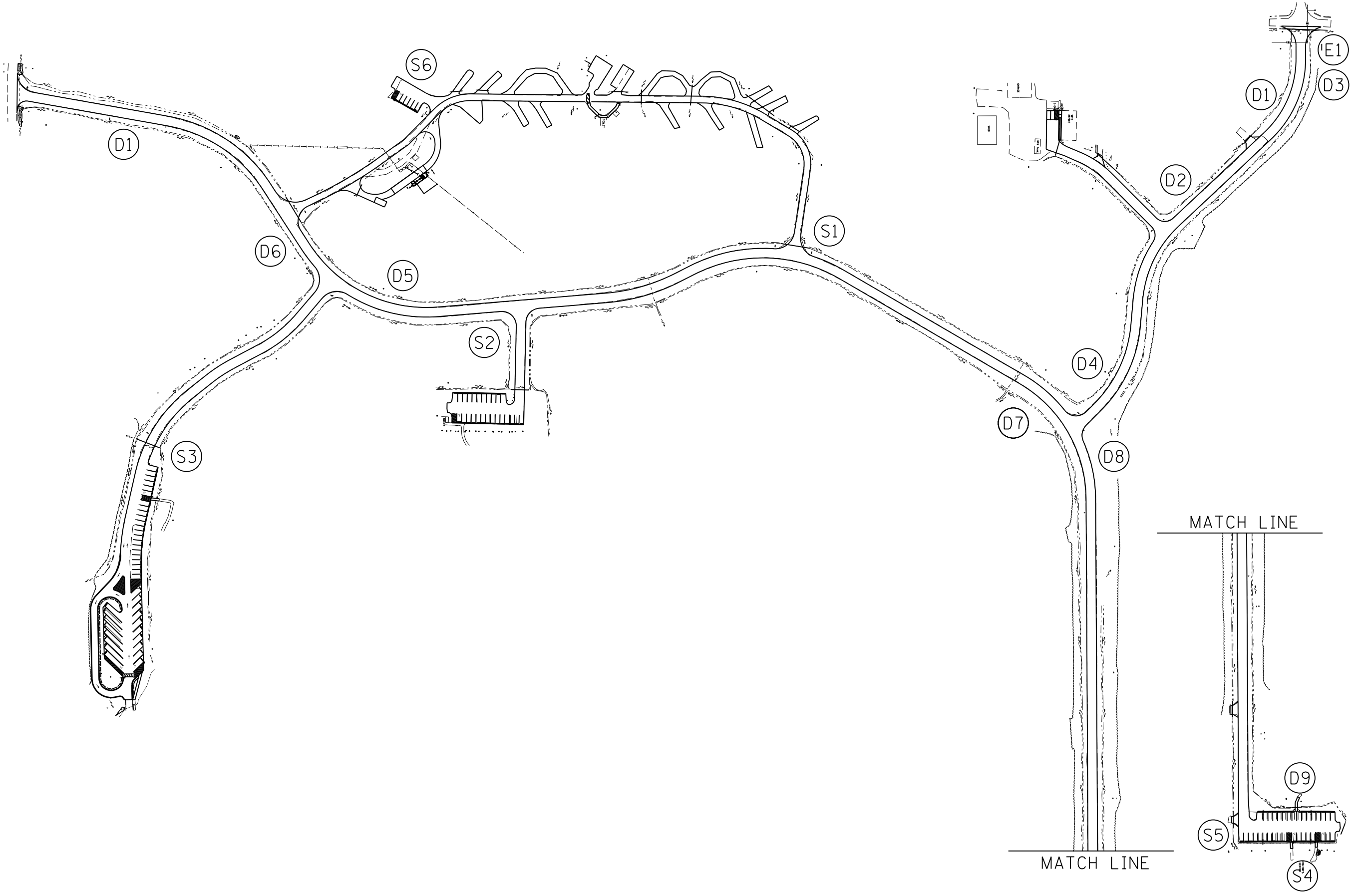
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN DETAILS  
BEALL WOODS STATE PARK AND NATURE PRESERVE**

SCALE: NTS      SHEET 56 OF 71 SHEETS      STA.      TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 56        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |





FILE NAME = sht\_57 Signs.dgn  
 Default

USER NAME = stevek  
 PLOT SCALE = 200.0000' / in.  
 PLOT DATE = 2/2/2017

DESIGNED - R.H.D.  
 DRAWN - B.T.M.  
 CHECKED - R.H.D.  
 DATE - 2/3/17

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGN DETAILS**  
**BEALL WOODS STATE PARK AND NATURE PRESERVE**  
 SCALE: SHEET 57 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 57        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107

## LIGHTING SUMMARY OF QUANTITIES

### INDEX OF SHEETS

- L-1 GENERAL NOTES, SCHEDULES, AND INDEX OF SHEETS
- L-2 EXISTING LIGHTING REMOVAL PLAN
- L-3 EXISTING LIGHTING REMOVAL PLAN
- L-4 PROPOSED LIGHTING PLAN
- L-5 PROPOSED LIGHTING PLAN
- L-6 PROPOSED LIGHTING PLAN
- L-7 WIRING DIAGRAMS
- L-8 LIGHT POLE ALUMINUM DETAIL (SHEET 1 OF 2)
- L-9 LIGHT POLE ALUMINUM DETAIL (SHEET 2 OF 2)
- L-10 CONDUIT ROUTING DETAIL
- L-11 ELECTRICAL DETAILS
- L-12 ELECTRICAL DETAILS

### HIGHWAY STANDARDS

- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 821101-02 LUMINAIRE WIRING IN POLE
- 836001-02 LIGHT POLE FOUNDATION

|            |  |      |                | CONSTR. CODE            |
|------------|--|------|----------------|-------------------------|
| CODE NO.   | ITEM   | UNIT | TOTAL QUANTITY | ROADWAY<br>0001<br>S.N. |
| 80400100   | ELECTRIC SERVICE INSTALLATION  | EACH | 1              |                         |
| 81028720   | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.                               | FOOT | 110            |                         |
| 81028750   | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.                               | FOOT | 102            |                         |
| 81603010   | UNIT DUCT, 600V, 2-1/C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE | FOOT | 642            |                         |
| 81603063   | UNIT DUCT, 600V, 4-1/C NO. 10, 1/C NO. GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE      | FOOT | 292            |                         |
| 81702110   | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10                                | FOOT | 895            |                         |
| 83600200   | LIGHT POLE FOUNDATION, 24" DIAMETER  | FOOT | 40             |                         |
| 84200600   | REMOVAL OF LIGHTING UNIT, NO SALVAGE   | EACH | 4              |                         |
| 84500120   | REMOVAL OF ELECTRIC SERVICE INSTALLATION   | EACH | 1              |                         |
| 89502300   | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT | 2,685          |                         |
| * X0326498 | GFCI 20 AMP DUPLEX RECEPTACLE  | EACH | 4              |                         |
| * X1400094 | LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE  | EACH | 7              |                         |
| *          | DISCONNECT SWITCH  | EACH | 3              |                         |
| *          | LIGHT POLE, SPECIAL, 30'   | EACH | 7              |                         |
| *          | SOLAR LED LIGHTING UNIT COMPLETE   | EACH | 1              |                         |

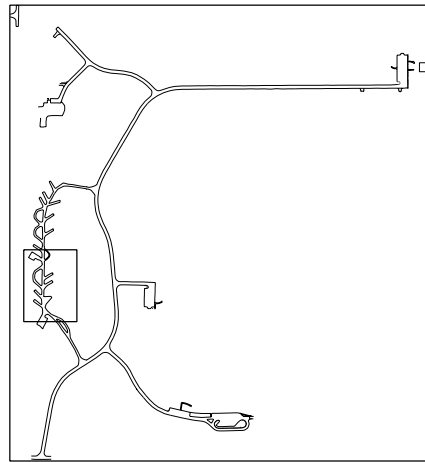
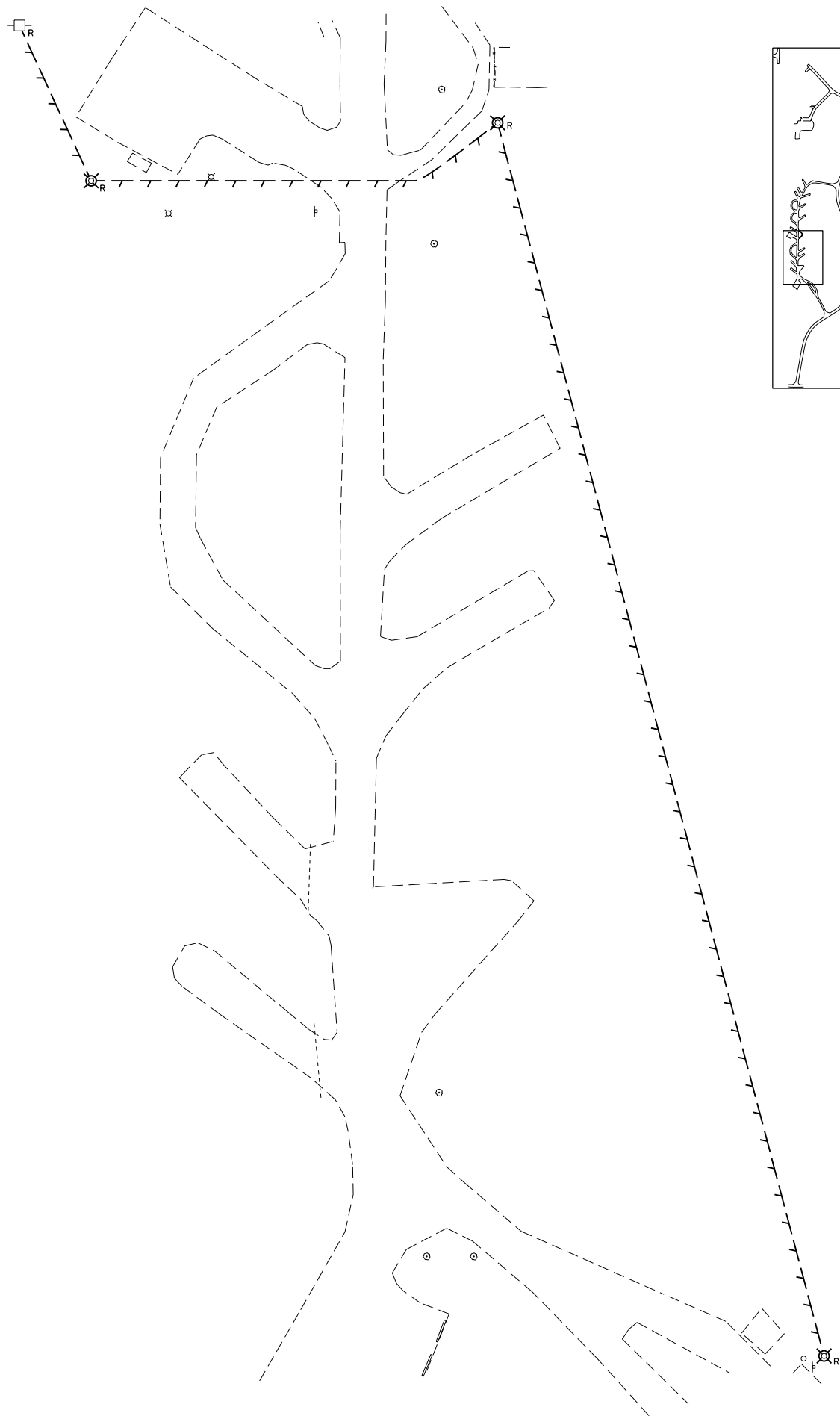
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| FILE NAME =<br>sht_58 Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
|                                      |                             | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT SCALE = 10.0000' / in. | CHECKED - R.H.D.  | REVISED - |
| Default                              | PLOT DATE = 2/2/2017        | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND LIGHTING SUMMARY OF QUANTITIES  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS      SHEET 58 OF 71 SHEETS      STA.      TO STA.

| F.A. RTE.                                | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--|--------------------|--------|---------------------------|-----------|
|  | PARK ROADS 2017-02 | WABASH | 71                        | 58        |
|  |                    |        | <b>CONTRACT NO. 46418</b> |           |
| <small>ILLINOIS FED. AID PROJECT</small> |                    |        |                           |           |



- LIGHTING LEGEND**
- ⊗<sub>R</sub> EXISTING LIGHTING UNIT WITH SERVICE DISCONNECT TO BE REMOVED
  - <sub>R</sub> EXISTING ELECTRIC SERVICE TO BE REMOVED
  - <sub>R</sub> EXISTING CABLE TO BE REMOVED

- NOTES**
1. REMOVE EXISTING CABLE IN CONDUIT. ABANDON CONDUIT IN PLACE.
  2. THE COST OF REMOVAL OF THE SERVICE DISCONNECT SHALL BE INCLUDED IN THE COST OF REMOVAL OF THE LIGHT POLE.

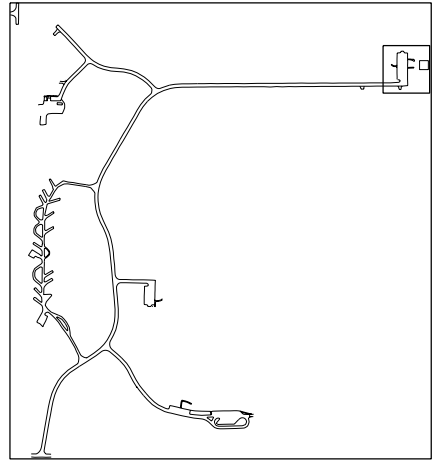
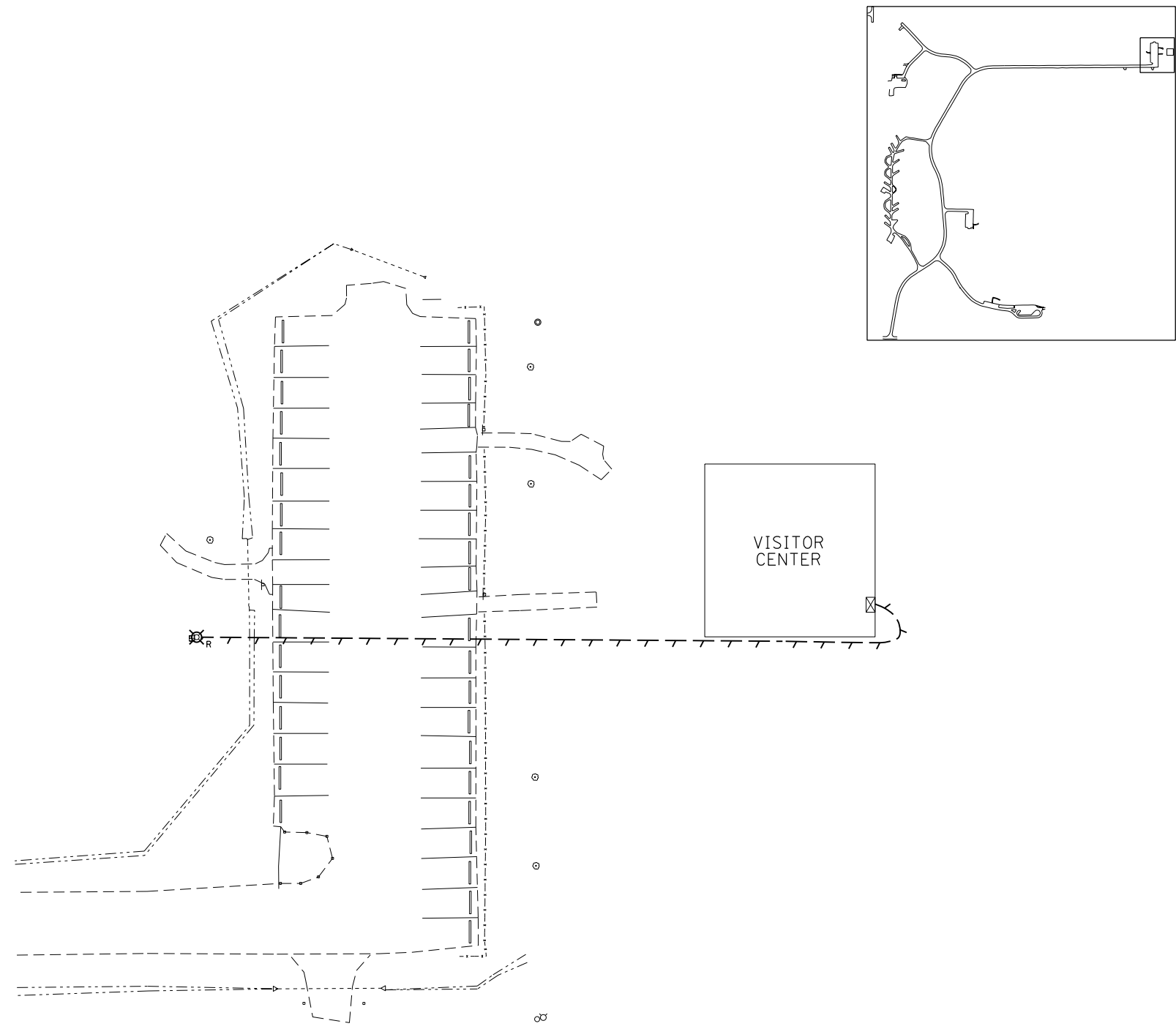
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| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL PLAN  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS      SHEET 59 OF 71 SHEETS      STA.      TO STA.

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 59        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



- LIGHTING LEGEND**
- ⊗<sub>R</sub> EXISTING LIGHTING UNIT WITH SERVICE DISCONNECT TO BE REMOVED
  - ⊠ EXISTING ELECTRICAL PANEL TO REMAIN IN PLACE
  - - - EXISTING CABLE TO BE REMOVED

- NOTES**
1. REMOVE EXISTING CABLE IN CONDUIT. ABANDON CONDUIT IN PLACE.
  2. THE COST OF REMOVAL OF THE SERVICE DISCONNECT SHALL BE INCLUDED IN THE COST OF REMOVAL OF THE LIGHT POLE.

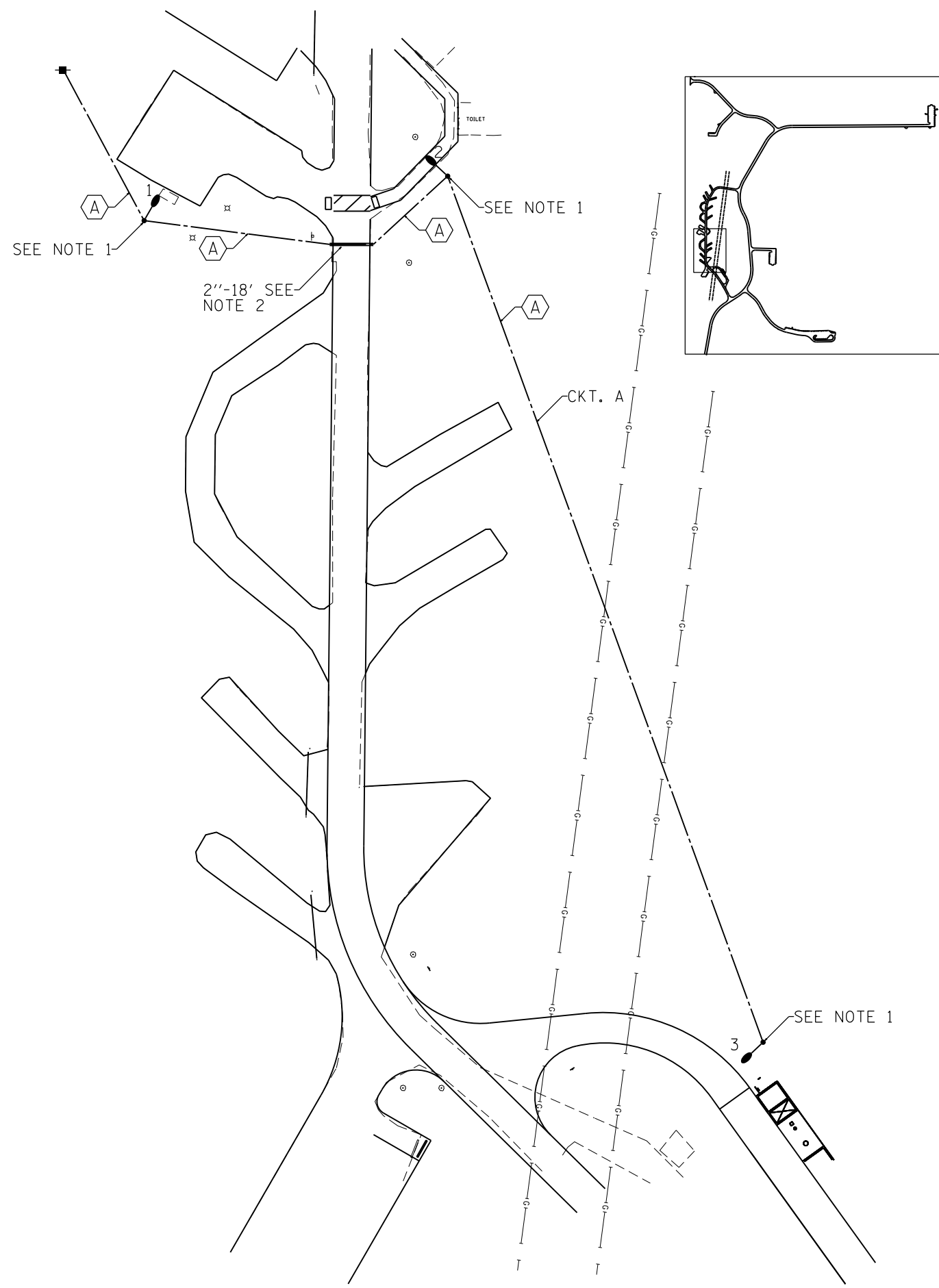
|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_60_Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL PLAN  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS      SHEET 60 OF 71 SHEETS      STA.      TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 60        |
| ILLINOIS FED. AID PROJECT |                    |        | CONTRACT NO. 46418 |           |



**LIGHTING LEGEND**

- PROPOSED LIGHTING UNIT  
ALUMINUM, 30' M.H., 1' M.A., 120V LED LUMINAIRE 1, WITH  
11-1/2" B.C. ON 5' x 24" DIA. CONCRETE FOUNDATION
- UNIT DUCT, SIZE AS INDICATED ON PLAN
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT,  
SCHEDULE 80, SIZE AS INDICATED ON PLAN
- PROPOSED ELECTRIC SERVICE INSTALLATION, 30 AMP,  
120/240 VOLT, SINGLE PHASE, 3 WIRE

**CABLE/CONDUIT SCHEDULE**

- ⬡ UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND,  
(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

**LIGHTING POLE LOCATION**

| STATION   | OFFSET    | DIST. |
|-----------|-----------|-------|
| 406+95.18 | 38.83' LT |       |
| 407+17.15 | 78.94' RT |       |
| 701+17.04 | 21.51' LT |       |

**NOTES**

1. INSTALL NEW DISCONNECT SWITCH ON THE NEW LIGHT POLE. SEE SHEETS L-11 AND L-12 FOR ELECTRICAL DETAILS.
2. 2" DIA. CNC, TO BE BORED UNDER DRIVEWAY.

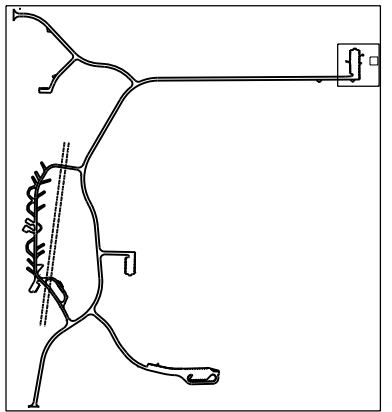
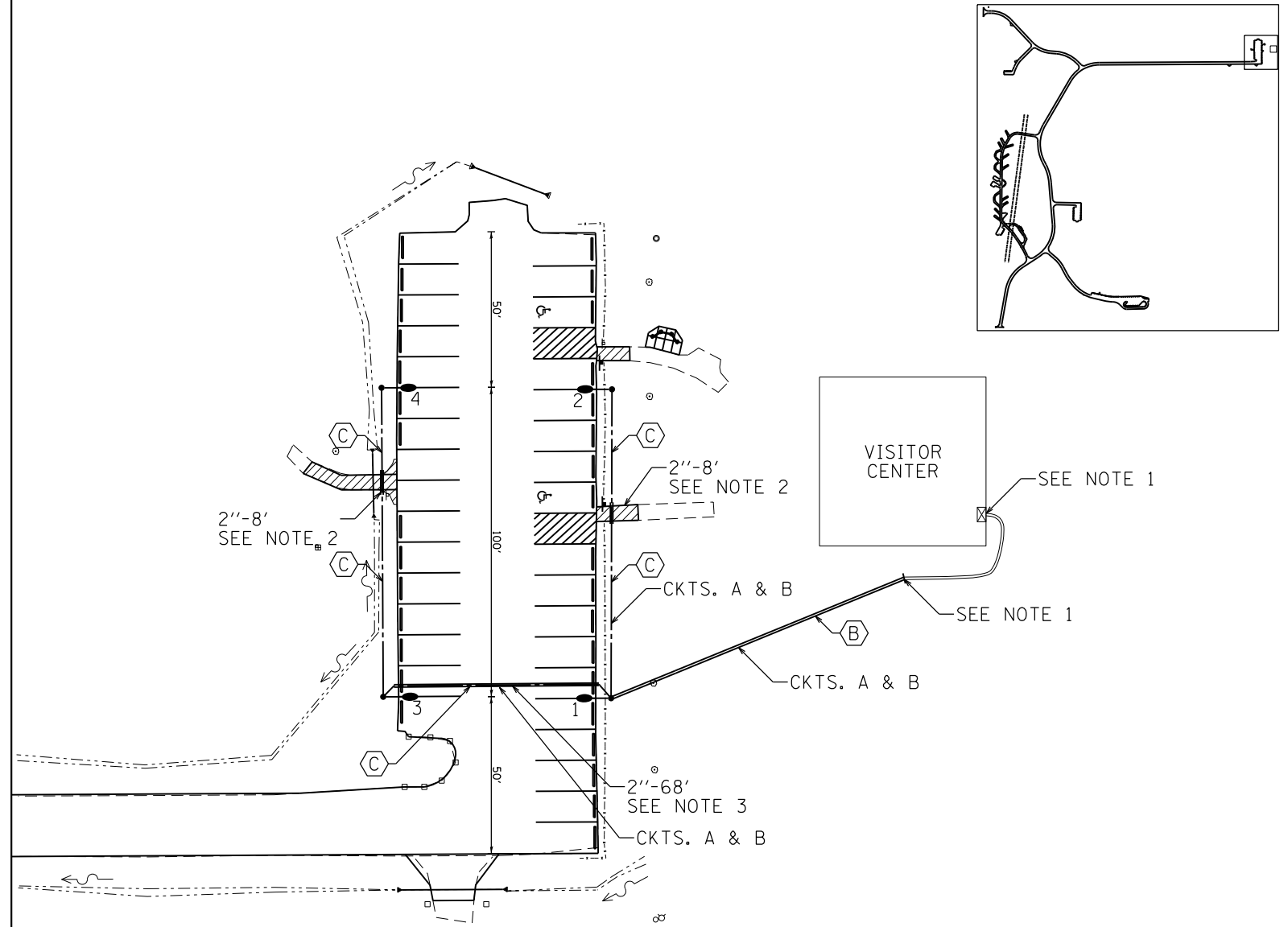
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| FILE NAME =<br>sht_61 Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS SHEET 61 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 61        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



- LIGHTING LEGEND**
- PROPOSED LIGHTING UNIT  
ALUMINUM, 30' M.H., 1' M.A., 120V LED LUMINAIRE 1,  
120V POLE RECEPTACLE, WITH 11-1/2" B.C. ON  
5' x 24" DIA. CONCRETE FOUNDATION
  - EXISTING ELECTRICAL PANEL TO REMAIN IN PLACE
  - UNIT DUCT, SIZE AS INDICATED ON PLAN
  - UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT,  
SCHEDULE 40, UNLESS OTHERWISE NOTED, SIZE AS INDICATED  
ON PLAN
- CABLE/CONDUIT SCHEDULE**
- 600V (XLP-TYPE USE) 4-1C NO.10, 1/C NO.10 GROUND  
IN UNDERGROUND CONDUIT, COILABLE NONMETALLIC  
CONDUIT, 1" DIA., SCHEDULE 40
  - UNIT DUCT, 600V, 4-1C NO.10, 1/C NO.10 GROUND,  
(XLP-TYPE USE), 1" DIA. POLYETHYLENE

**LIGHTING POLE LOCATION**

| STATION   | OFFSET | DIST. |
|-----------|--------|-------|
| 140+39.70 | 36.45' | RT    |
| 140+40.69 | 34.37' | LT    |
| 141+39.73 | 36.48' | RT    |
| 141+40.69 | 33.95' | LT    |

- NOTES**
- THE CONTRACTOR SHALL INTERCEPT EXISTING CONDUIT FOR PARKING LOT OUTSIDE OF BUILDING. INSTALL NEW 1" DIA. CNC, SCH. 40. USE METALLIC TO NON-METALLIC COUPLER/REDUCER. THE NEW CABLE FOR THE PARKING LOT LIGHTING AND RECEPTACLES SHALL BE CONNECTED TO 2-20AMP BREAKERS IN THE EXISTING ELECTRICAL PANEL INSIDE THE VISITOR CENTER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED ELECTRIC CABLE.
  - 2" DIA. CNC, SCH. 80, TO BE BORED UNDER SIDEWALK.
  - 2" DIA. CNC, SCH. 80, TO BE BORED UNDER PARKING LOT.
  - THE CONTRACTOR SHALL SET POLES 5' BEHIND EDGE OF PAVEMENT.
  - SEE SHEET L-10 FOR ELECTRICAL DETAILS.

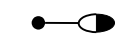
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| FILE NAME =<br>sht.62 Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

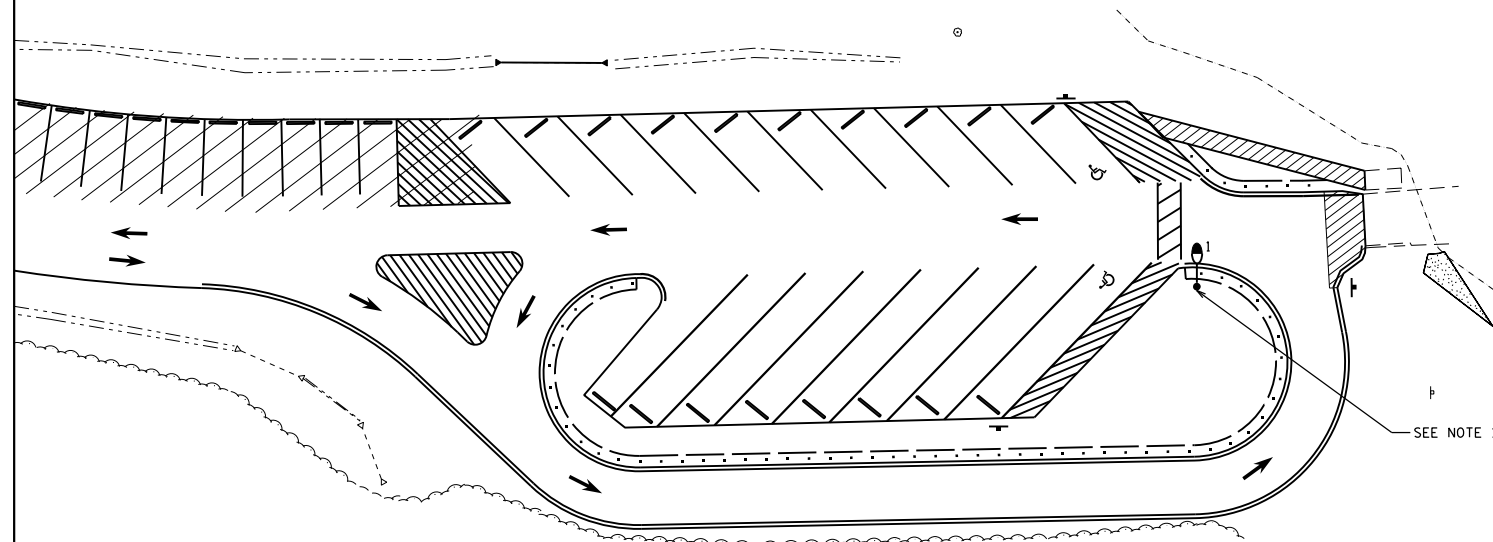
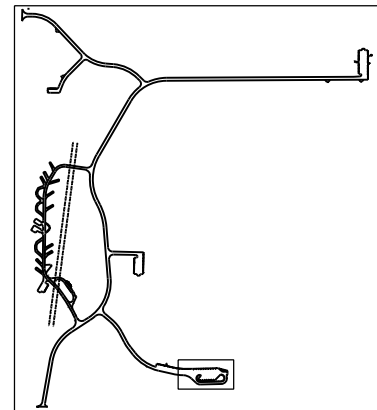
**PROPOSED LIGHTING PLAN  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS      SHEET 62 OF 71 SHEETS      STA.      TO STA.

|                           |                    |        |                    |           |
|---------------------------|--------------------|--------|--------------------|-----------|
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 62        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

**LIGHTING LEGEND**  
 PROPOSED SOLAR LED LIGHTING UNIT  
 GALVANIZED STEEL, 26' M.H., 1' M.A., 12/24V DC LED  
 LUMINAIRE 2, WITH 11-1/2" B.C. ON 5' x 24" DIA.  
 CONCRETE FOUNDATION

**LIGHTING POLE LOCATION**  
 STATION OFFSET DIST.  
 610+17.38 16.56' RT



**NOTES**

1. THE CONTRACTOR SHALL SET POLE AT LEAST 5' BEHIND EDGE OF PAVEMENT. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.

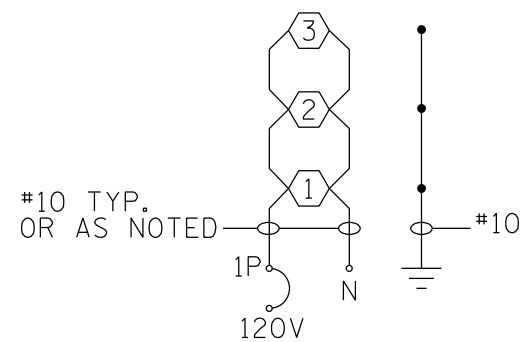
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| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

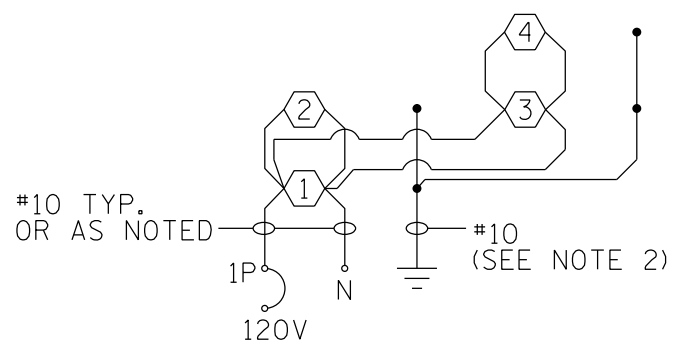
**PROPOSED LIGHTING PLAN  
 BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS SHEET 63 OF 71 SHEETS STA. TO STA.

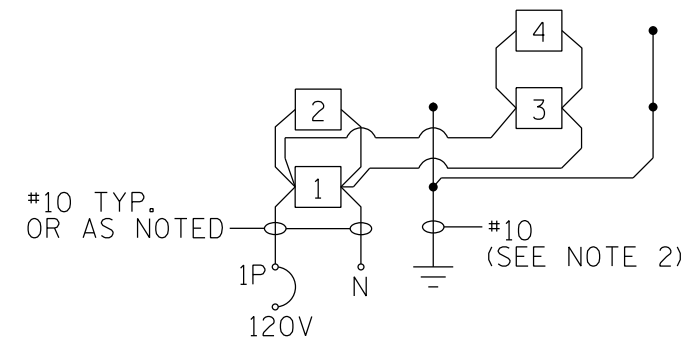
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 63        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



CKT A - FIELD LIGHTING  
PROPOSED ELECTRIC SERVICE



CKT A - PARKING LOT LIGHTING  
EXISTING ELECTRICAL PANEL



CKT B - GFCI PARKING LOT RECEPTACLES  
EXISTING ELECTRICAL PANEL

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.
2. #10 EQUIPMENT GROUNDING CONDUCTOR SHARED BETWEEN CIRCUITS A AND B.

⬡ PROPOSED LUMINAIRE, LED

□ PROPOSED GFCI POLE RECEPTACLE

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_64 Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

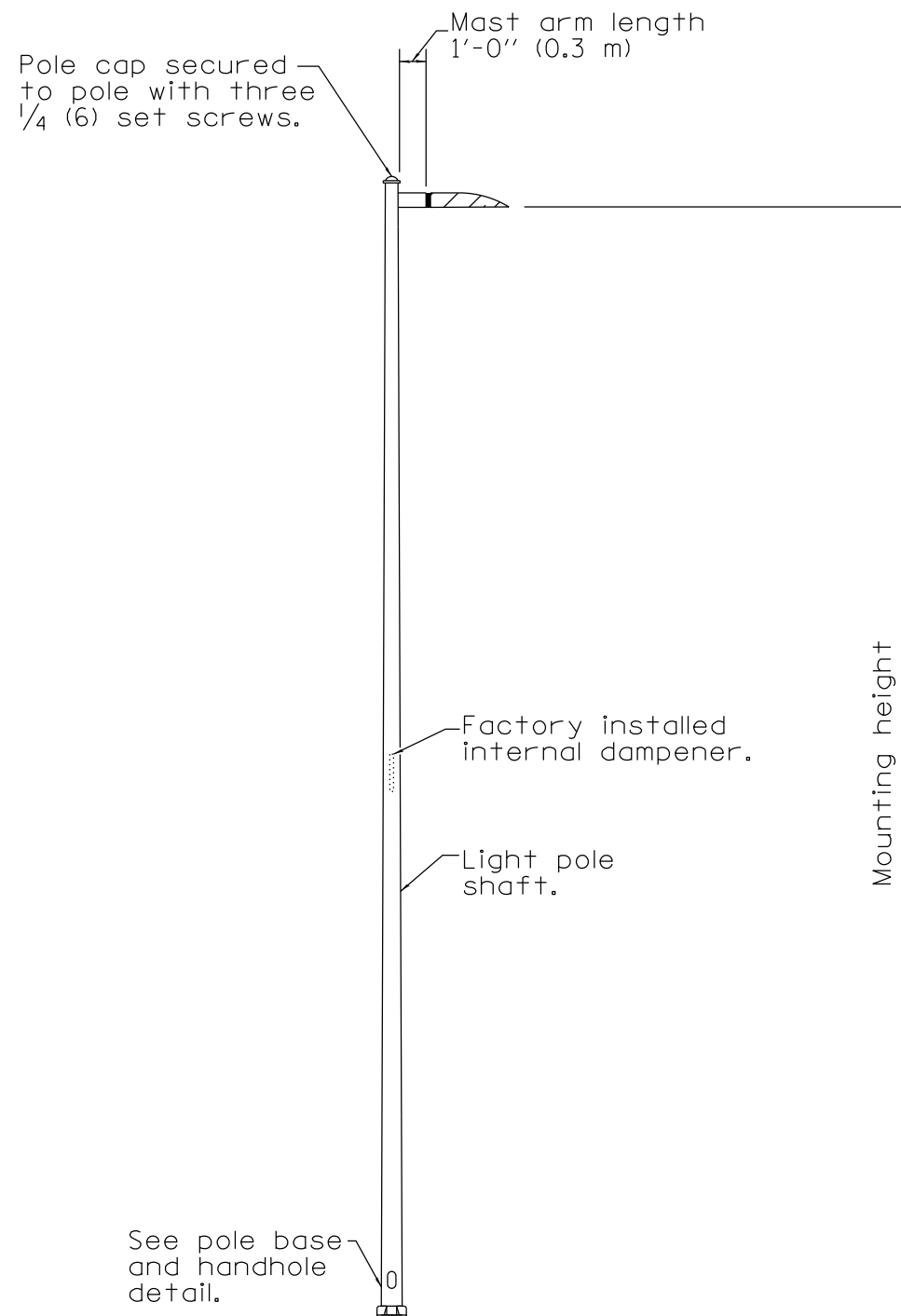
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAMS  
BEALL WOODS STATE CONSERVATION AREA

SCALE: NTS SHEET 64 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 64        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |





**LIGHT POLE**

| POLE            |                                       |                        |
|-----------------|---------------------------------------|------------------------|
| MOUNTING HEIGHT | MINIMUM SHAFT DIAMETER                | MINIMUM WALL THICKNESS |
| 30'<br>(9.1 m)  | 8 tapered<br>to 4 1/2<br>(200 to 114) | 0.25<br>(6)            |

| BASE PLATE      |                      |
|-----------------|----------------------|
| MOUNTING HEIGHT | BOLT CIRCLE DIAMETER |
| 30'<br>(9.1 m)  | 11 1/2<br>(290)      |

**GENERAL NOTES**

See Standard 836001 for Light Pole Foundation and grounding electrode.

Voids in light pole base shall be sealed to prevent rodent entry.

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

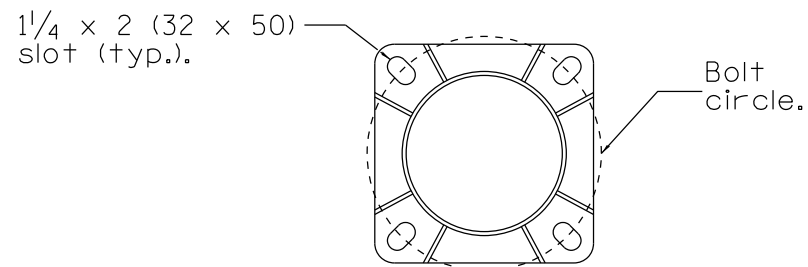
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| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

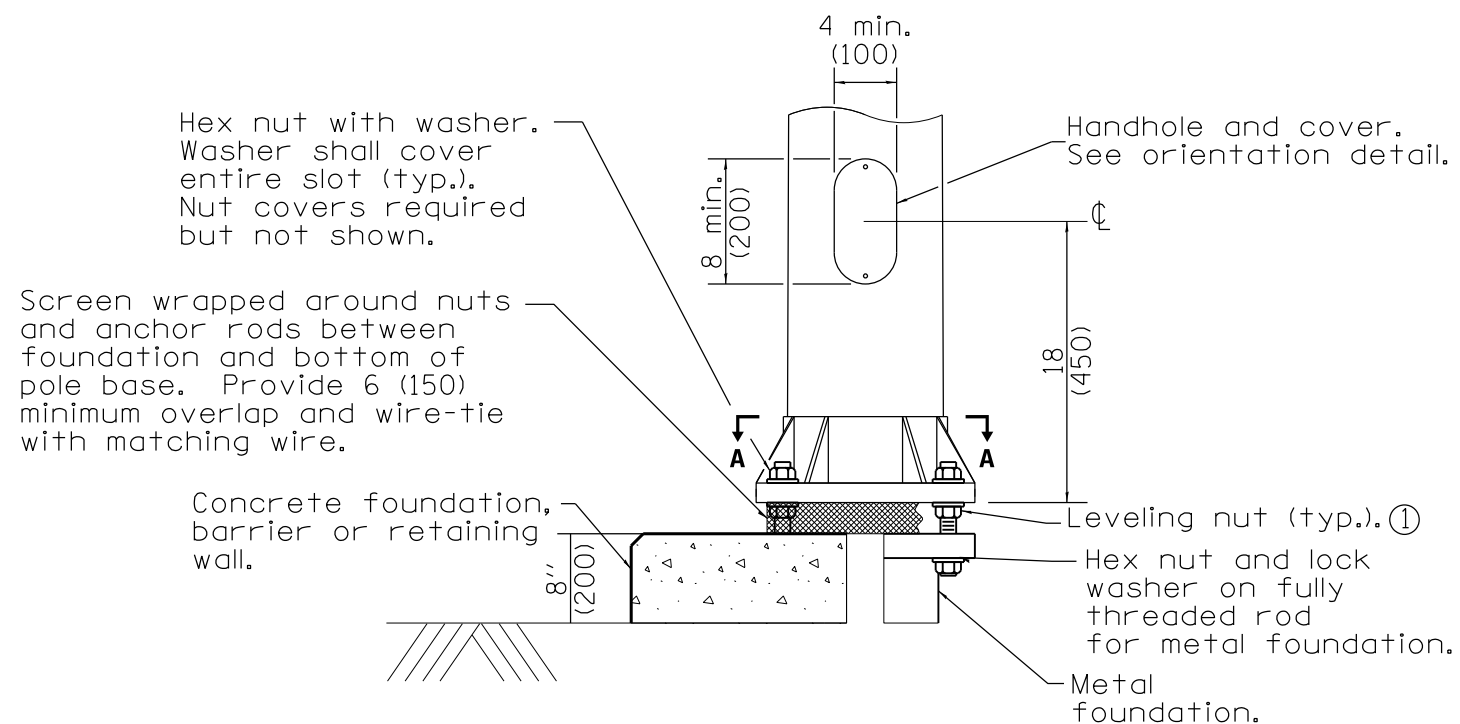
**LIGHT POLE ALUMINUM DETAIL  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS SHEET 65 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 65        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



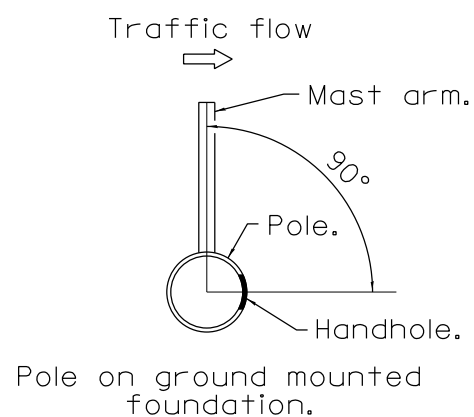
**SECTION A-A**  
(Bolts not shown)



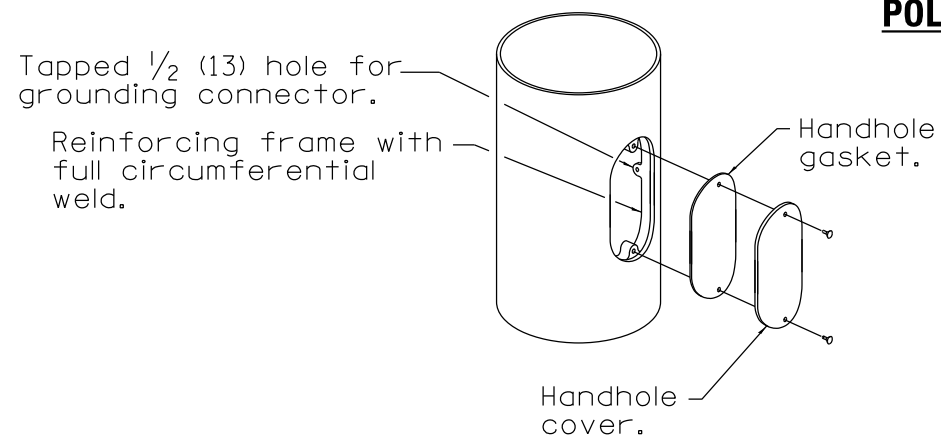
**ELEVATION AT CONCRETE FOUNDATION, METAL FOUNDATION OR RETAINING WALL**

① Omit leveling nuts when breakaway devices are required.

**POLE BASE DETAILS**



**HANDHOLE ORIENTATION DETAIL**



**HANDHOLE DETAIL**

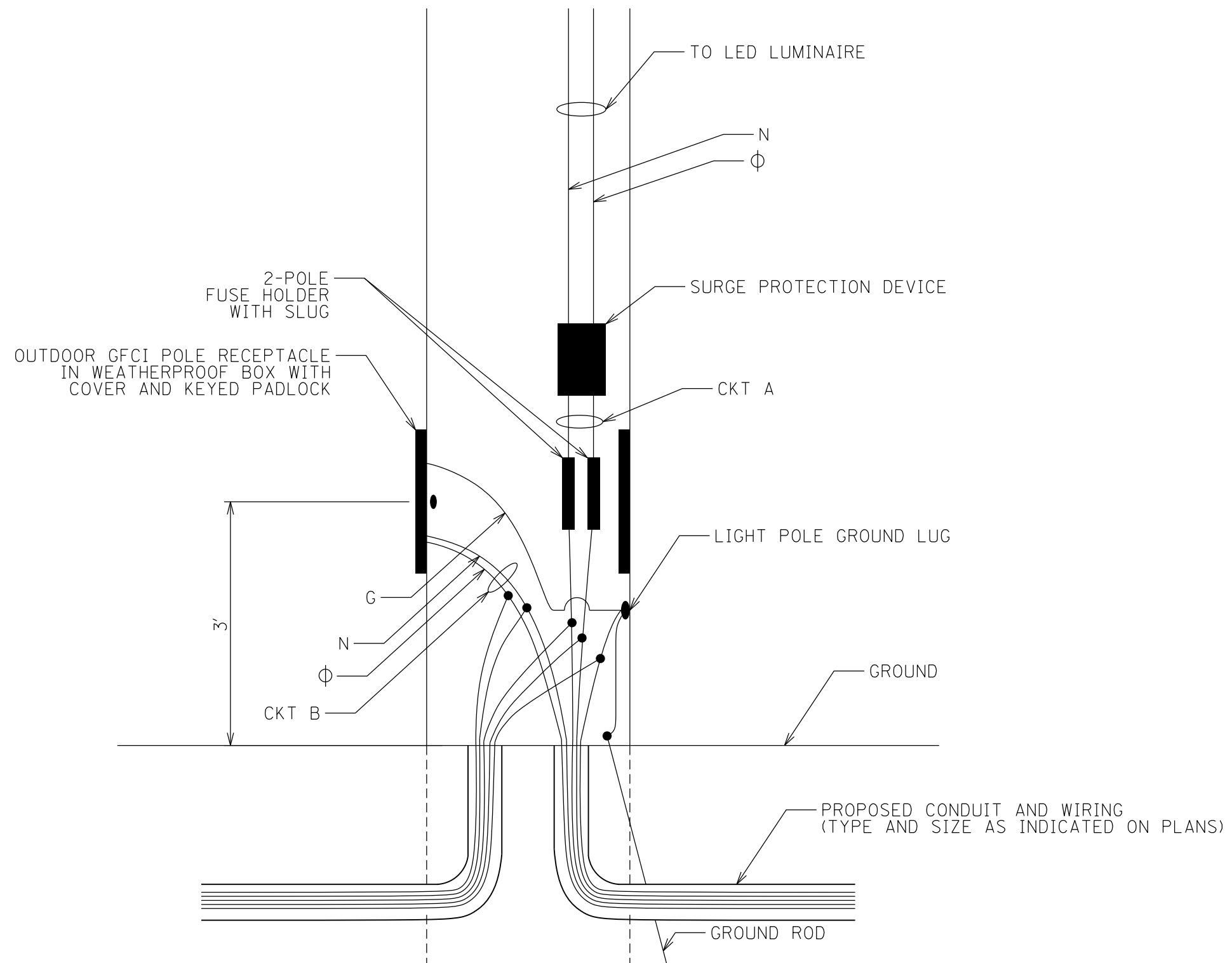
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| Default                           | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                   | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                   |                             | DATE - 2/3/17     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHT POLE ALUMINUM DETAIL  
BEALL WOODS STATE CONSERVATION AREA**

SCALE: NTS SHEET 66 OF 71 SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 66        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |



L-10

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_67_Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              |                             | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT SCALE = 10.0000' / in. | CHECKED - R.H.D.  | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | DATE - 2/3/17     | REVISED - |

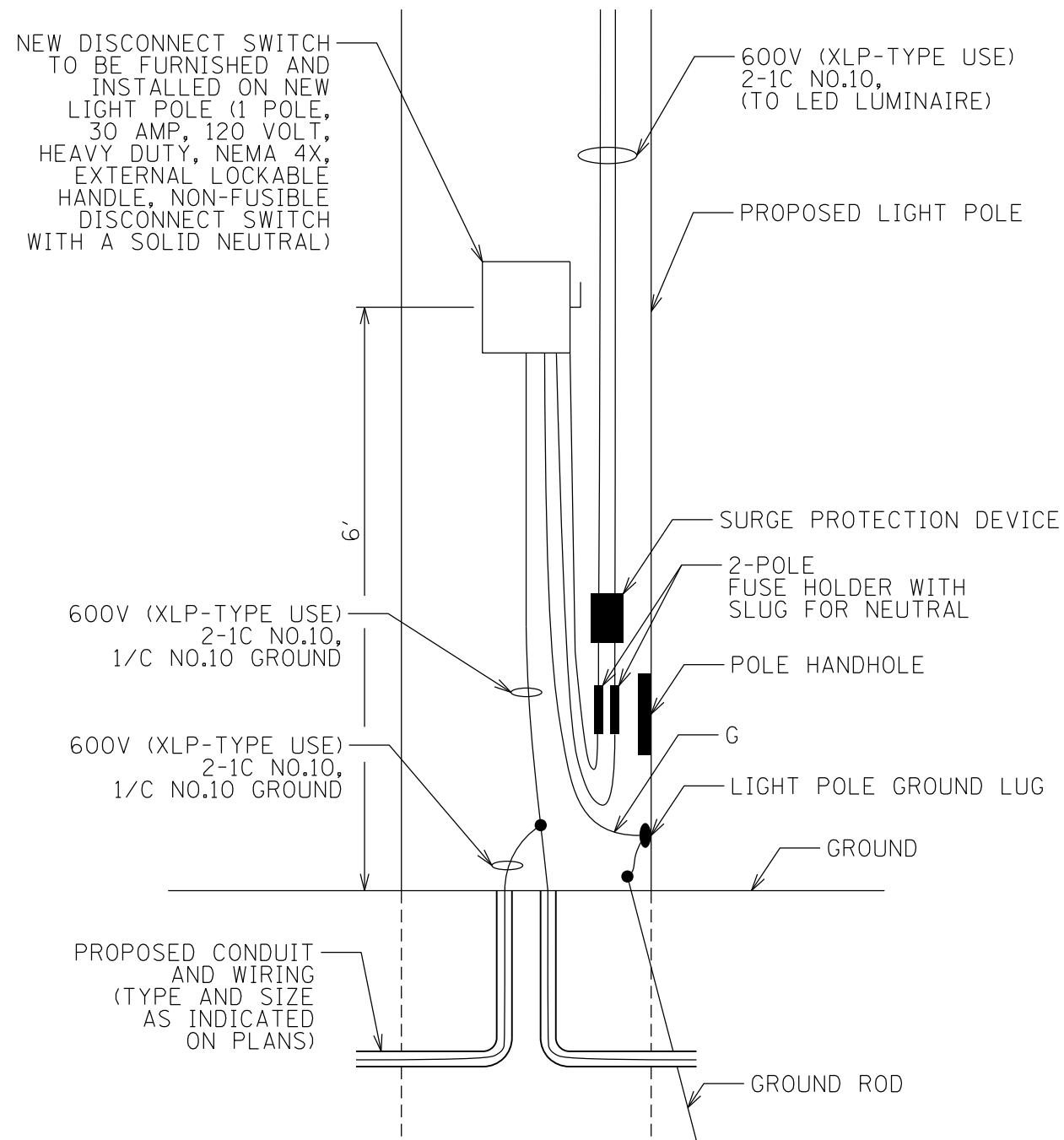
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONDUIT ROUTING DETAIL  
BEALL WOODS STATE CONSERVATION AREA**

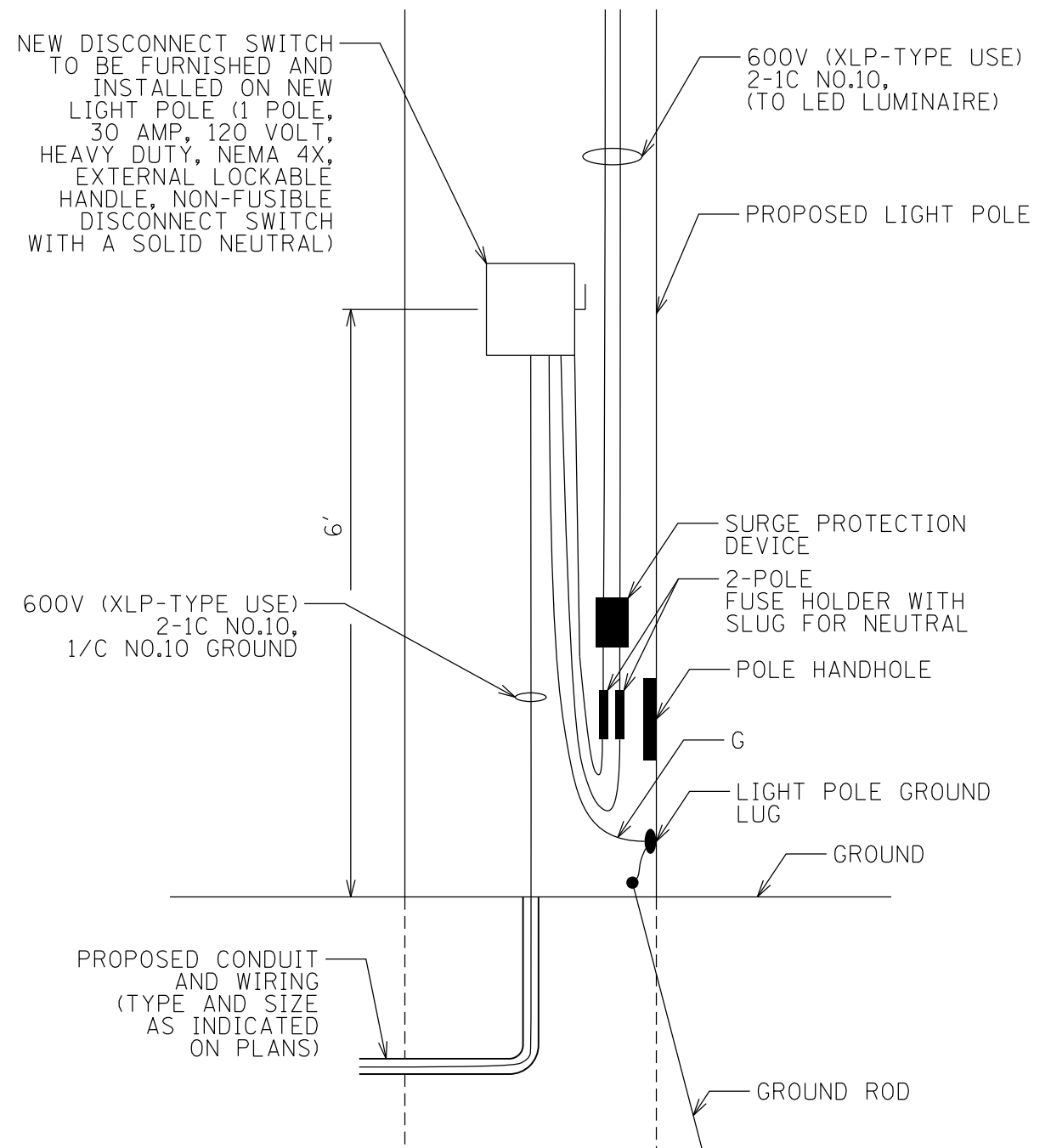
SCALE: NTS      SHEET 67 OF 71 SHEETS      STA.      TO STA.

| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 67        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

JOB NO. 250-141-E VASCONCELLES ENGINEERING CORP. DESIGN FIRM REGISTRATION NUMBER 184-002107



LIGHT POLES #1 AND #2  
(NOT TO SCALE)



LIGHT POLE #3  
(NOT TO SCALE)

|                                      |                             |                   |           |
|--------------------------------------|-----------------------------|-------------------|-----------|
| FILE NAME =<br>sht_68 Electrical.dgn | USER NAME = stevek          | DESIGNED - R.H.D. | REVISED - |
| Default                              | PLOT SCALE = 10.0000' / in. | DRAWN - B.T.M.    | REVISED - |
|                                      | PLOT DATE = 2/2/2017        | CHECKED - R.H.D.  | REVISED - |
|                                      |                             | DATE - 2/3/17     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS  
BEALL WOODS STATE CONSERVATION AREA

SCALE: NTS SHEET 68 OF 71 SHEETS STA. TO STA.

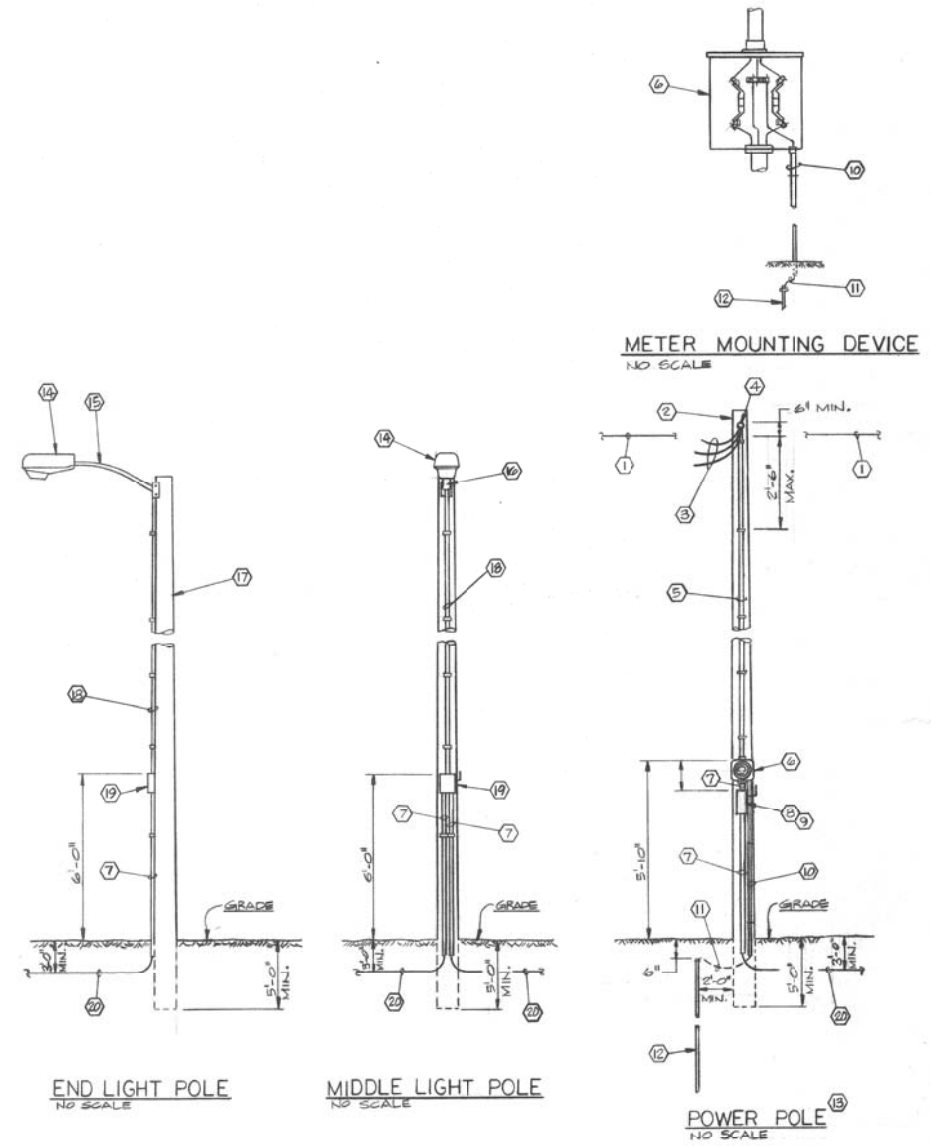
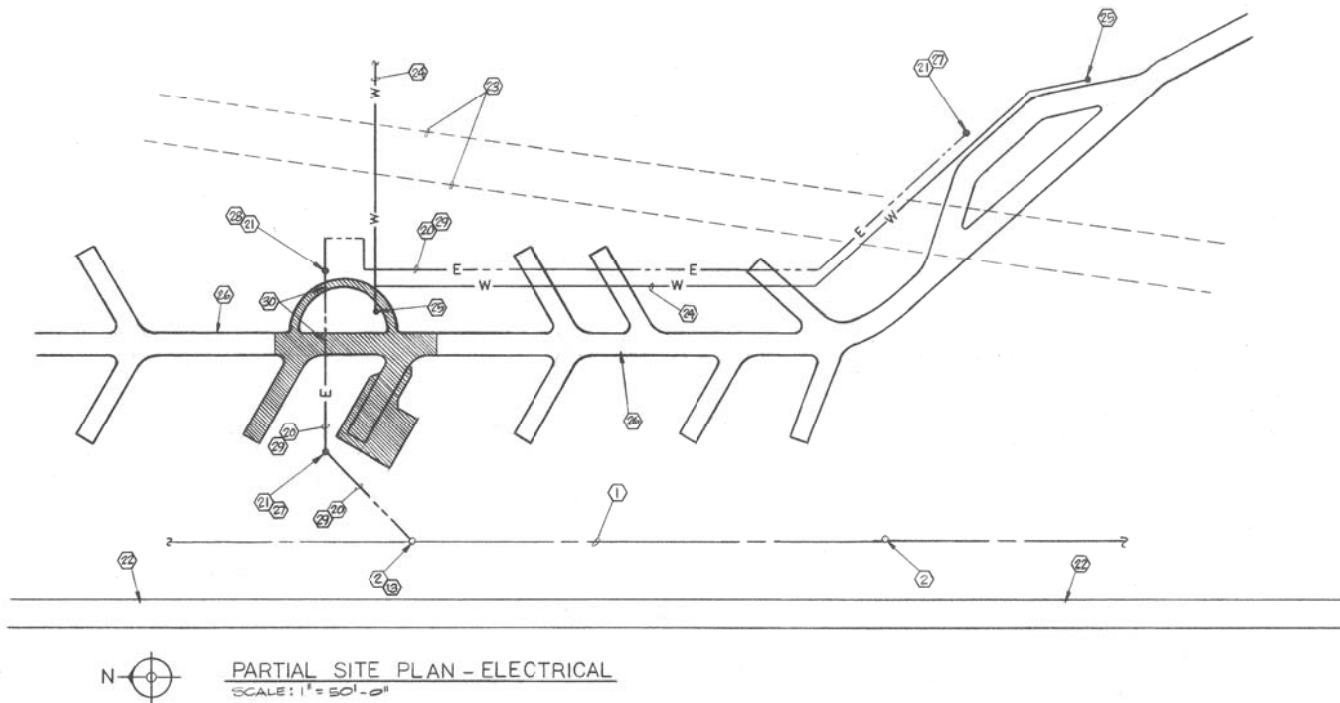
| F.A. RTE.                 | SECTION            | COUNTY | TOTAL SHEETS       | SHEET NO. |
|---------------------------|--------------------|--------|--------------------|-----------|
|                           | PARK ROADS 2017-02 | WABASH | 71                 | 68        |
|                           |                    |        | CONTRACT NO. 46418 |           |
| ILLINOIS FED. AID PROJECT |                    |        |                    |           |

**NOTES**

1. EXISTING MT. CARMEL PUBLIC UTILITY POWER LINE.
2. EXISTING MT. CARMEL PUBLIC UTILITY POWER POLE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE 5'-0" OF CABLE FOR FINAL CONNECTION TO UTILITY LINE BY MT. CARMEL PUBLIC UTILITY CO.
4. WEATHERHEAD AND CONDUIT MAST FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. 3 #6 THIN IN 1 1/2" SCHEDULE 40 PVC CONDUIT.
6. 100 AMP. METER BASE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SPECIFICATIONS. METER SHALL BE FURNISHED AND INSTALLED BY MT. CARMEL PUBLIC UTILITY. FACE TOWARD CAMPGROUND.
7. #6 3-CONDUCTOR (COPPER) TYPE USE, 600 VOLT CABLE WITH A GROUND WIRE IN 1 1/2" SCHEDULE 40 PVC CONDUIT.
8. FURNISH AND INSTALL A 2 POLE, 30 AMP., 240 VOLT, NEMA 3R, HEAVY DUTY, FUSIBLE DISCONNECT SWITCH WITH A SOLID NEUTRAL.
9. FUSE WITH 20 AMP., DUAL ELEMENT, LOW PEAK FUSES (CLASS RK1).
10. #6 BARE COPPER WIRE IN 3/4" SCHEDULE 40 PVC CONDUIT FROM GROUND WLG OF METER BASE TO GROUND ROD.
11. #6 BARE COPPER GROUNDING CONDUCTOR. BOND TO GROUND ROD WITH EXOTHERMIC WELD.
12. 5/8" DIA. x 10'-0" LONG COPPERWELD GROUND ROD.
13. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ARRANGEMENTS FOR A 20 AMP., 120/240 VOLT, SINGLE PHASE, 3 WIRE, 3/4" ELECTRICAL SERVICE WITH MT. CARMEL PUBLIC UTILITY CO., MT. CARMEL, ILLINOIS BEFORE STARTING ANY WORK.
14. L-1 LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.
15. 2" DIA. LIGHTING FIXTURE L-1 MAST ARM.
16. BRACKET AND CONDUIT CONNECTION TO L-1 MAST ARM.
17. LIGHTING FIXTURE POLE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. FACE TOWARD ROADWAY. SEE SPECIFICATIONS.
18. 2 #10 THIN AND 1 #10 THIN GREEN GROUND WIRE IN 1 1/2" SCHEDULE 40 PVC CONDUIT.
19. FURNISH AND INSTALL A 2 POLE, 30 AMP., 240 VOLT, NEMA 3R, HEAVY DUTY, NON-FUSIBLE DISCONNECT SWITCH WITH A SOLID NEUTRAL. FACE TOWARD ROADWAY.
20. #6 3-CONDUCTOR (COPPER) TYPE USE, 600 VOLT CABLE WITH A GROUND WIRE.
21. LIGHTING FIXTURE POLE.
22. EXISTING PUBLIC ROAD.
23. PATH OF TWO PETROLEUM PIPELINES.
24. 1/2" PVC WATER LINE FURNISHED AND INSTALLED BY OTHERS.
25. WATER HYDRANT FURNISHED AND INSTALLED BY OTHERS.
26. ROAD BY OTHERS - TYPICAL.
27. FEED FIXTURE FROM PHASE A.
28. FEED FIXTURE FROM PHASE B.
29. DIRECT BURIAL CABLE SHALL BE CONTINUOUS WITHOUT SPLICES FROM POLE TO POLE OR UTILITY SUPPLY (ELECTRICAL SERVICE POLE).
30. DIRECT BURIAL CABLE SHALL BE INSTALLED IN 3" DIA. SCHEDULE 80 PVC CONDUIT UNDER ROADS AND SIDEWALKS. CONDUIT SHALL EXTEND 5'-0" BEYOND EDGE OF ROADS AND SIDEWALKS ON EACH SIDE.

| LIGHTING FIXTURE SCHEDULE |                   |             |           |              |         |             |  |
|---------------------------|-------------------|-------------|-----------|--------------|---------|-------------|--|
| SYMBOL                    | MANUFACTURER      | CATALOG NO. | MOUNTING  | LAMPS        | VOLTAGE | FINISH      | REMARKS  |
| L-1                       | GRUOSE-HINDS      | 0VS15SH22E  | WOOD POLE | 150 WATT HPS | 120     | GRAY ENAMEL | TYPE 2 PHOTOMETRIC DISTRIBUTION, PHOTOCONTROL, REFRRACTIVE AND PHOTOSELE, POLYCARBONATE LENS, SHIMS-DOWN BALL JOINT BRIDGE AND 2" DIA. MAST ARM 6'-0" LONG |
|                           | GENERAL ELECTRIC  | 6574 N40S   |           |              |         |             |  |
|                           | AMERICAN ELECTRIC | 11B-55962-B |           |              |         |             |  |

FOR INFORMATION ONLY



| REVISIONS |      |         | DRAWN | PREPARED |
|-----------|------|---------|-------|----------|
| NO.       | DATE | REMARKS | JNA   | JNA      |
|           |      |         | JNA   | HRL      |
|           |      |         | HRL   | HRL      |



**LEEDS ENGINEERING**  
CONSULTING ENGINEERS  
407 1/2 MARKET ST. - MT. CARMEL, ILLINOIS 62863 (618) 262-4526



STATE OF ILLINOIS  
CAPITAL DEVELOPMENT BOARD

**ELECTRICAL PLAN & DETAILS**  
ILLINOIS DEPARTMENT OF CONSERVATION  
BEALL WOODS CAMPGROUND ADDITION

|               |             |
|---------------|-------------|
| 100% FILE NO. | 5-90-1      |
| PROJECT NO.   | 102-703-007 |
| DATE          | 7-7-95      |
| SHEET NO.     | E-1         |
| OF            | 1 SHEETS    |

FILE NAME = sht\_69 Electrical.dgn  
Default

USER NAME = stevek  
PLOT SCALE = 2.2734 in / in.  
PLOT DATE = 2/2/2017

|            |        |           |  |
|------------|--------|-----------|--|
| DESIGNED - | R.H.D. | REVISED - |  |
| DRAWN -    | B.T.M. | REVISED - |  |
| CHECKED -  | R.H.D. | REVISED - |  |
| DATE -     | 2/3/17 | REVISED - |  |

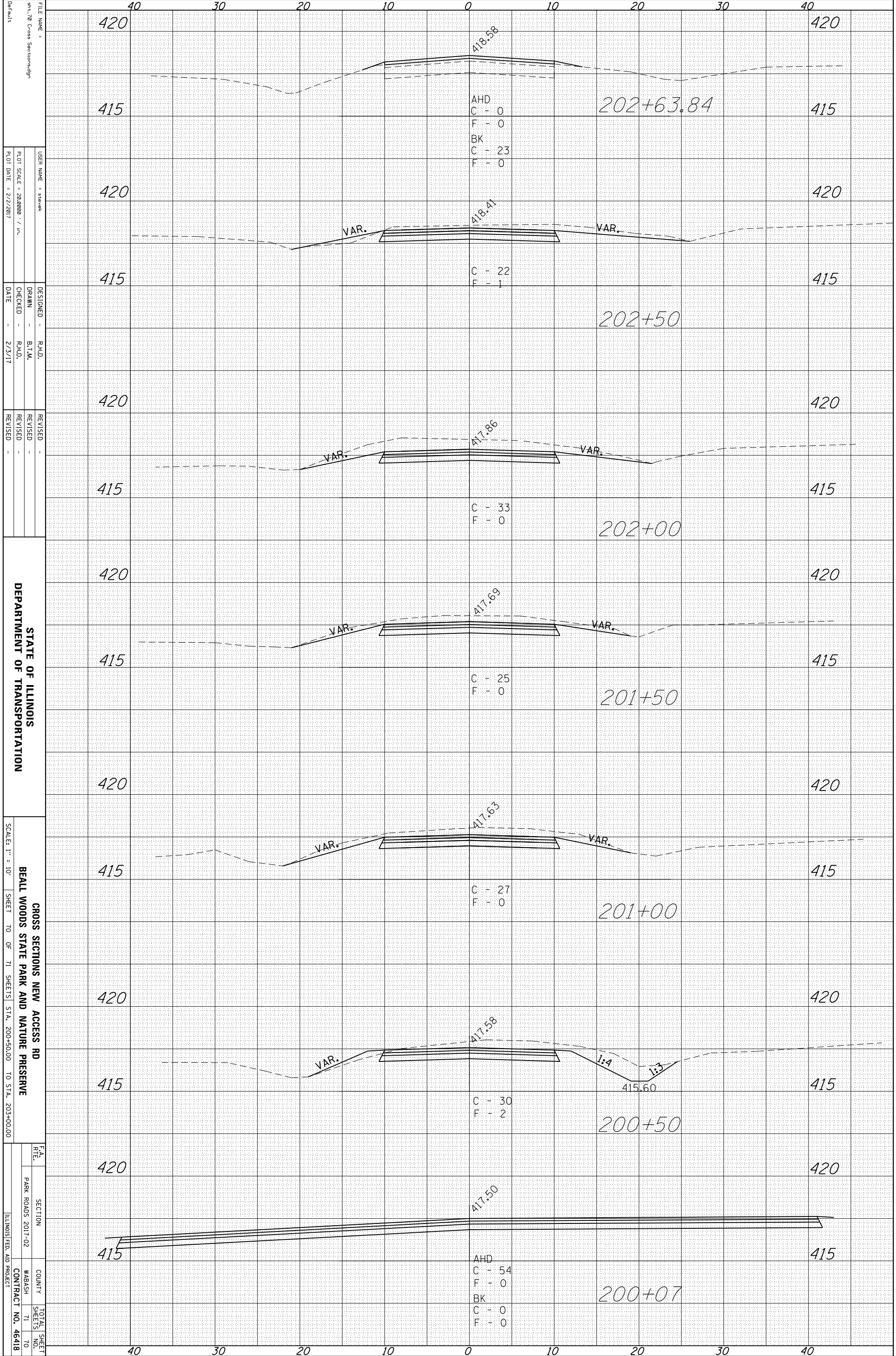
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL DETAILS**  
BEALL WOODS STATE CONSERVATION AREA  
SCALE: NTS SHEET 69 OF 71 SHEETS STA. TO STA.

|                    |                    |        |                           |           |
|--------------------|--------------------|--------|---------------------------|-----------|
| F.A. RTE.          | SECTION            | COUNTY | TOTAL SHEETS              | SHEET NO. |
|                    | PARK ROADS 2017-02 | WABASH | 71                        | 69        |
| CONTRACT NO. 46418 |                    |        | ILLINOIS FED. AID PROJECT |           |

|                 |               |    |      |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK       | PLOTTED       |    |      |
|                 | TEMPLATE      |    |      |
|                 | AREAS         |    |      |
|                 | AREAS CHECKED |    |      |

|              |               |    |      |
|--------------|---------------|----|------|
| FINAL SURVEY | SURVEYED      | BY | DATE |
| NOTE BOOK    | PLOTTED       |    |      |
|              | TEMPLATE      |    |      |
|              | AREAS         |    |      |
|              | AREAS CHECKED |    |      |



FILE NAME:   
 USER NAME:   
 DESIGNER:   
 CHECKED:   
 DATE:   
 REVISIONS:   
 REVISION 1:   
 REVISION 2:   
 REVISION 3:

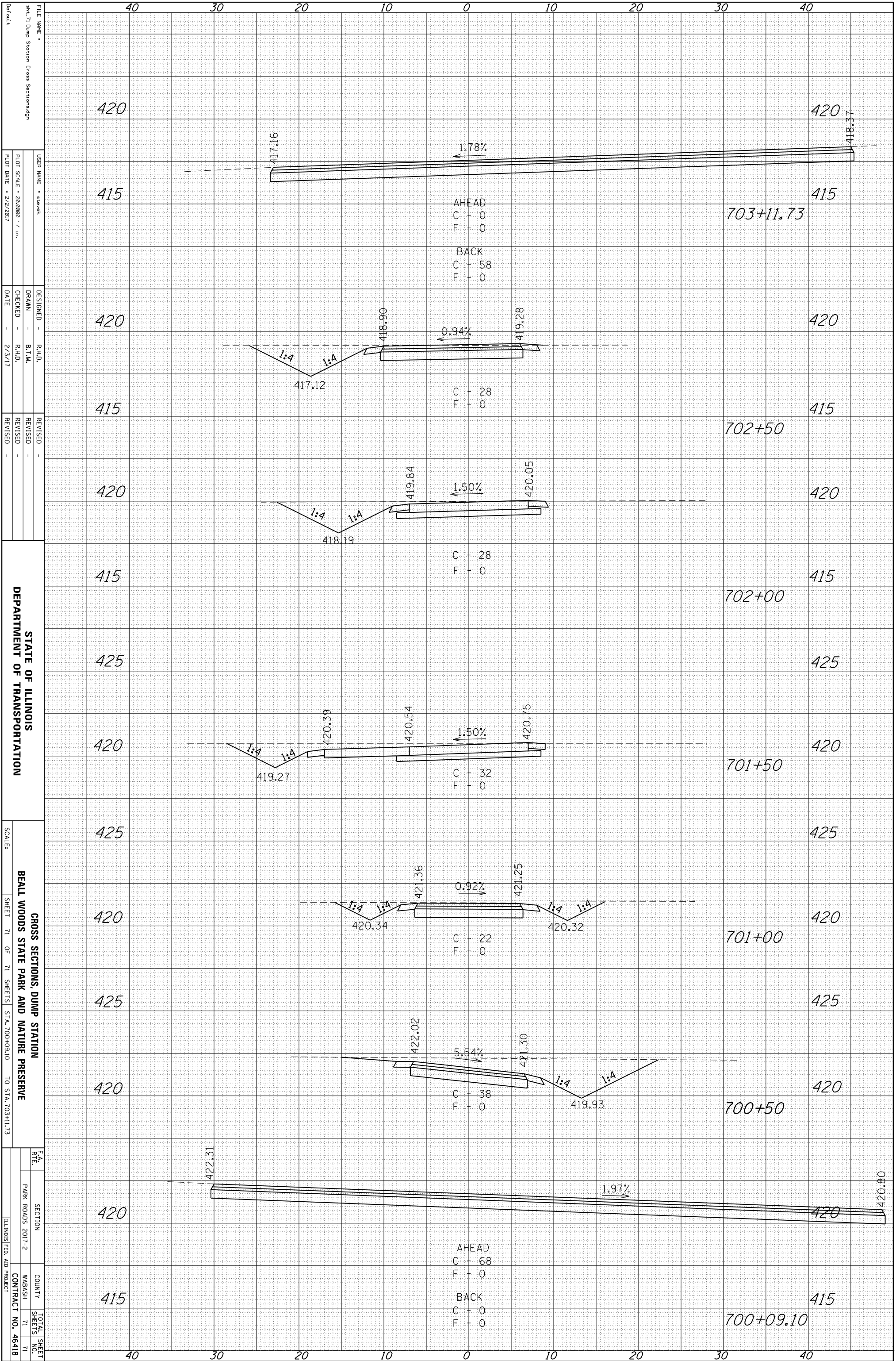
STATE OF ILLINOIS   
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS NEW ACCESS RD   
 BALL WOODS STATE PARK AND NATURE PRESERVE   
 SCALE: 1" = 10'   
 SHEET 70 OF 71 SHEETS   
 STA. 200+50.00 TO STA. 203+00.00

SECTION:   
 COUNTY:   
 CONTRACT NO. 46418   
 TOTAL SHEETS: 71   
 SHEET NO. 70

|                 |          |    |      |
|-----------------|----------|----|------|
| ORIGINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK       | PLOTTED  |    |      |
|                 | TEMPLATE |    |      |
|                 | AREAS    |    |      |
|                 | CHECKED  |    |      |

|              |          |    |      |
|--------------|----------|----|------|
| FINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK    | PLOTTED  |    |      |
|              | TEMPLATE |    |      |
|              | AREAS    |    |      |
|              | CHECKED  |    |      |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS, DUMP STATION  
BALL WOODS STATE PARK AND NATURE PRESERVE

FILE NAME: 414\_71 Dump Station Cross Sections.dgn  
USER NAME: sarak  
DESIGNED: R.H.D.  
DRAWN: B.J.M.  
CHECKED: R.H.D.  
DATE: 2/3/17  
REVISIONS:  
SCALE: 1"=20'-0"SHEET 71 OF 71 SHEETS  
STA. 700+09.10 TO STA. 703+11.73  
F.A. RTE. SECTION COUNTY TOTAL SHEET NO. 71 71  
PARK ROADS 2017-2 WABASH ILLINOIS FED. AID PROJECT CONTRACT NO. 46418