

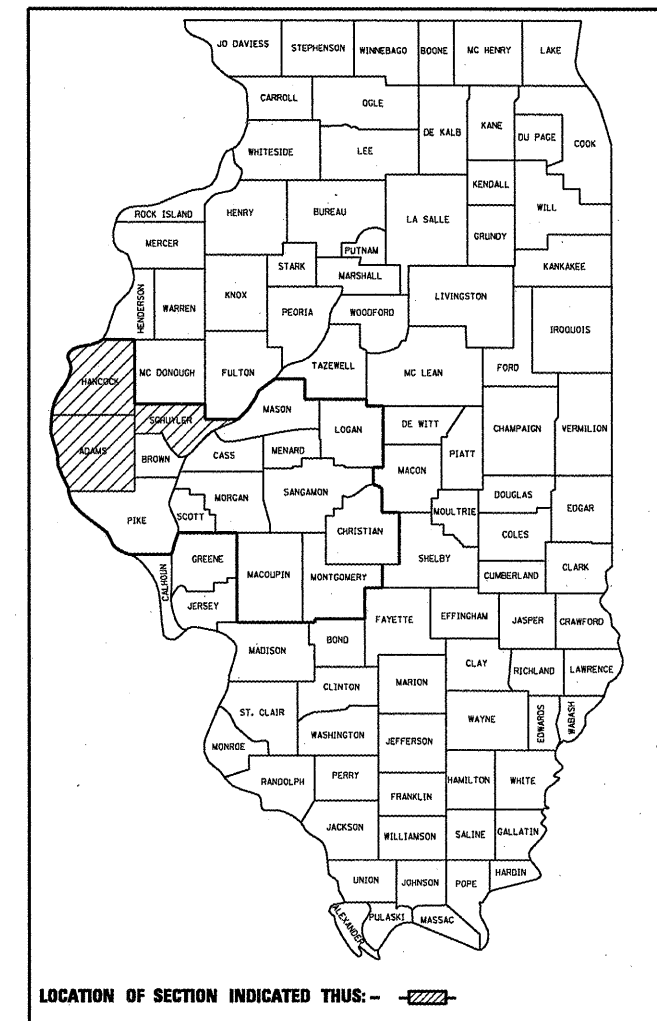
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

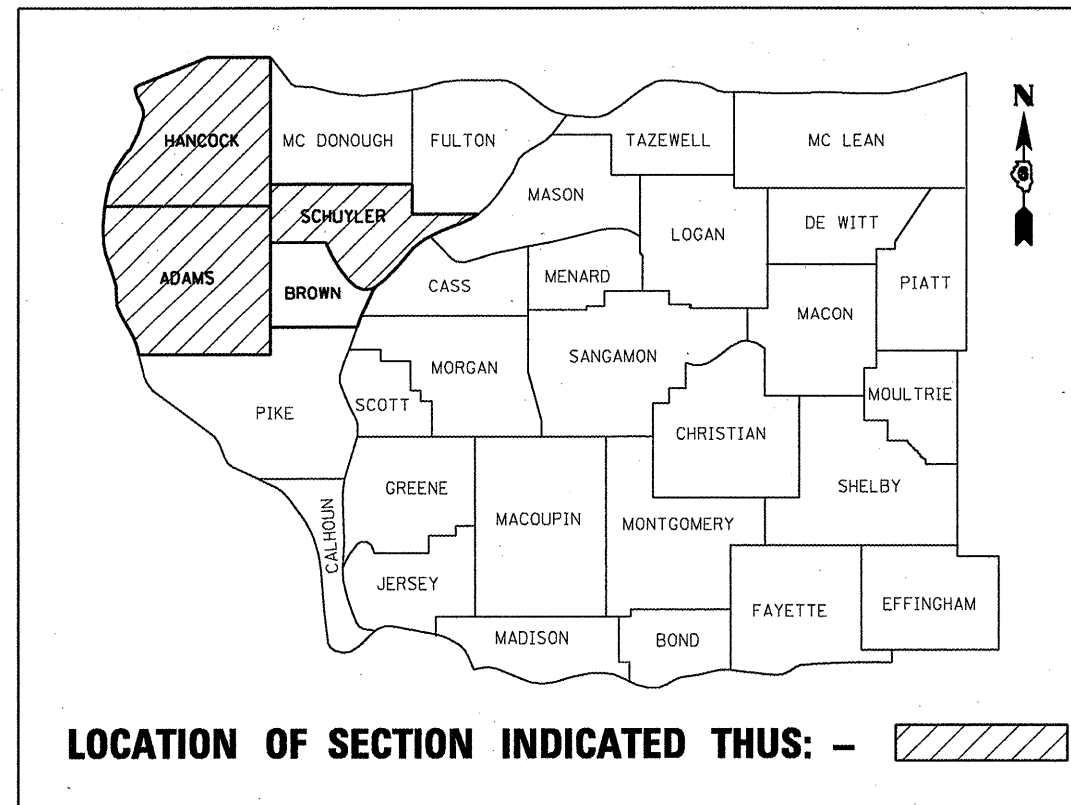
ROUTE: VARIOUS
SECTION: D6 GUARDRAIL END REPL 2011-3
PROJECT HSIP-000S(848)
ADAMS, HANCOCK, & SCHUYLER CO.

| | | | | |
|---------------------------------|---------|--------|----------------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR. | •• | • | 19 | 1 |
| ILLINOIS | | | CONTRACT NO. 72E17 | |
| •• D6 GUARDRAIL END REPL 2011-3 | | | • ADAMS, HANCOCK, & SCHUYLER CO. | |

D-96-038-11



C-96-038-11

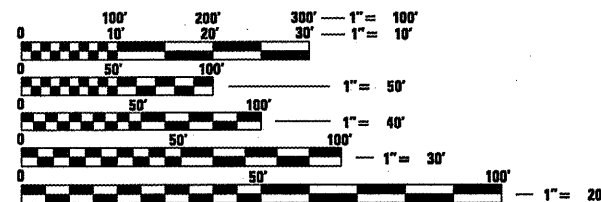


INDEX OF SHEETS

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- 19 EXISTING BRIDGERAIL MODIFICATION DETAIL SHEET

HIGHWAY STANDARDS

- 000001-06 635011-02
- 630001-09 701006-03
- 630301-05 701201-04
- 635006-03 701901-01



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: JEFF MYERS (217) 782-4761
 PROJECT MANAGER: BRIAN LANINGHAM (217) 524-0472

CONTRACT NO. 72E17

LOCATION MAP

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 25 20 11
Regan Z. Driskill
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 13 20 11
Scott E. Stitt P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 13 20 11
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

GENERAL NOTES

1. ALL OF THE DISTURBED AREAS WITHIN THE RIGHT OF WAY NOT COVERED BY SURFACING MATERIAL SHALL BE SEEDED.
2. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION PROTECTION FOR THE DURATION OF THIS PROJECT.
3. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED. ANY DAMAGE TO THE UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
5. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
6. IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
7. FINAL VERTICAL ADJUSTMENT OF GUARDRAIL IF REQUIRED SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE UNIT COSTS OF THE PROJECT.
8. GUARDRAIL REMOVAL SHALL INCLUDE TRAFFIC BARRIER BRIDGE TERMINALS AND TRAFFIC BARRIER END TERMINALS.
9. THE CONTRACTOR WILL BE REQUIRED TO CONTACT THE OPERATIONS ENGINEER (217) 782-7314 AT LEAST 72 HOURS PRIOR TO DRIVING ANY POSTS. TO MAKE SURE STATE OWNED UTILITIES ARE NOT IN THE WAY.
10. THE CONTRACTOR WILL BE REQUIRED TO REPAIR ANY AREAS OF TURF THAT ARE DAMAGED DURING THE EXECUTION OF THIS CONTRACT. THIS WORK WILL NOT BE MEASURED FOR PAYMENT AND WILL BE CONSIDERED IN THE UNIT COSTS OF THE PROJECT.
11. ALL GUARDRAIL SHALL HAVE A PRELIMINARY LAYOUT. GUARDRAIL POSTS SHALL BE ADJUSTED AS TO MISS ANY SHOULDER DRAINS, INLETS, PIPE CULVERTS, STORM SEWER OR ANY OTHER THAT MAY INTERFERE WITH GUARDRAIL CONSTRUCTION.
12. IN AREAS WHERE A "SOIL PAD" IS TO BE CONSTRUCTED, THE CONTRACTOR SHALL PROVIDE SOIL, CLASS 2 SEEDING, FERTILIZER, MULCH METHOD 1 AND ALL NECESSARY MATERIAL AND LABOR TO COMPLETE THE "SOIL PADS" AS SHOWN IN THE PLANS. THIS WORK WILL PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "FURNISHED EXCAVATION".

| | |
|---------------------------------|--------------|
| DISTRICT SIX | |
| EXAMINED <u>March 21</u> | 20 <u>11</u> |
| <i>Dir Welton</i> | |
| OPERATIONS ENGINEER | |
| EXAMINED <u>MARCH 16</u> | 20 <u>11</u> |
| <i>Tommy F...</i> | |
| PROJECT IMPLEMENTATION ENGINEER | |
| EXAMINED <u>MARCH 22</u> | 20 <u>11</u> |
| <i>John C. ...</i> | |
| PROGRAM DEVELOPMENT ENGINEER | |

| | | | | | | | | | | |
|--|------------------------------------|------------|-----------|---|--|----------------|---------|--------|-----------------------------|--------------|
| FILE NAME = | USER NAME = leninghembk | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | D6 GUARDRAIL END REPL GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ca:\prj_work\p1dot\leninghembk\d0247485\ | 0672E17-shit-gennote.dgn | DRAWN - | REVISED - | | | VAR. | ** | * | 19 | 2 |
| | PLOT SCALE = 100.0000' / IN. | CHECKED - | REVISED - | | SCALE: | | | | CONTRACT NO. 72E17 | |
| | PLOT DATE = Mar-21-2011 04:28:01PM | DATE - | REVISED - | | SHEET NO. OF SHEETS STA. TO STA. | | | | [ILLINOIS] FED. AID PROJECT | |

HANCOCK CO.

| | | |
|----------|---|-------|
| 20400800 | FURNISHED EXCAVATION | CU YD |
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | EACH |
| 63200310 | GUARDRAIL REMOVAL | FOOT |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH |
| 78201000 | TERMINAL MARKER, DIRECT APPLIED | EACH |

| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
|--------------|-------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|--------------|
| A | IL 96 | SN 034-0068 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| B | IL 96 | SN 034-2008 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| C | IL9 | ROADWAY | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | RIVER BRIDGE |
| TOTAL | | | | | | - | 9 | 450.00 | - | 9 | - | - | |

HANCOCK CO.

| | | |
|----------|-----------------------|------|
| 50104000 | BRIDGE RAIL REMOVAL | FOOT |
| 50900205 | STEEL RAILING, TY S-1 | FOOT |

| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | BRIDGE RAIL REMOVAL | STEEL RAILING, TY S-1 | REMARKS |
|---------------|-------|----------------|-----------|-------------------------|---------------------------|---------------------|-----------------------|--------------|
| 1 | IL 96 | SN 034-0020 | EAST SIDE | MATCH EXISTING | MATCH EXISTING | 136.0 | 136.0 | RAILING ONLY |
| | | | WEST SIDE | MATCH EXISTING | MATCH EXISTING | 136.0 | 136.0 | |
| 2 | IL 96 | SN 034-0029 | EAST SIDE | MATCH EXISTING | MATCH EXISTING | 137.0 | 137.0 | RAILING ONLY |
| | | | WEST SIDE | MATCH EXISTING | MATCH EXISTING | 137.0 | 137.0 | |
| TOTALS | | | | | | 546.0 | 546.0 | |

ADAMS CO.

| | | |
|----------|---|-------|
| 20400800 | FURNISHED EXCAVATION | CU YD |
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | EACH |
| 63200310 | GUARDRAIL REMOVAL | FOOT |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH |
| 78201000 | TERMINAL MARKER, DIRECT APPLIED | EACH |

| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
|----------|--------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|-------------------|
| D | IL 104 | ROADWAY | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| E | IL 104 | ROADWAY | SW QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 100.00 | 1 | 150.00 | 2 | 1 | 1 | 5.0 | |
| | | | SE QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 100.00 | 1 | 150.00 | 2 | 1 | 1 | 5.0 | |
| F | IL 104 | ROADWAY | SW QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 225.00 | 1 | 275.00 | 6 | 1 | 1 | 5.0 | |
| | | | SE QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 225.00 | 1 | 275.00 | 6 | 1 | 1 | 5.0 | |
| G | IL 104 | ROADWAY | SW QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 62.50 | 1 | 112.50 | 2 | 1 | 1 | 5.0 | |
| | | | SE QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 62.50 | 1 | 112.50 | 2 | 1 | 1 | 5.0 | |
| H | IL 104 | ROADWAY | SW QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 75.00 | 1 | 125.00 | 2 | 1 | 1 | 5.0 | |
| | | | SE QUAD | 18' TO RAIL FACE | 25" TO CTR OF RAIL | 75.00 | 1 | 125.00 | 2 | 1 | 1 | 5.0 | |
| I | IL 96 | ROADWAY | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | RAIL ON BACKSLOPE |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| J | IL 57 | SN 001-0015 | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| K | IL 57 | SN 001-0015 | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |

ADAMS CO.

| | | |
|----------|---|-------|
| 20400800 | FURNISHED EXCAVATION | CU YD |
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | EACH |
| 63200310 | GUARDRAIL REMOVAL | FOOT |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH |
| 78201000 | TERMINAL MARKER, DIRECT APPLIED | EACH |

| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
|----------|-------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|---------|
| L | IL 96 | SN 001-0008 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| M | IL 96 | SN 001-0076 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| N | IL 96 | SN 001-0075 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| O | IL 96 | SN 001-0052 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |

ADAMS CO.

| | | |
|----------|---|-------|
| 20400800 | FURNISHED EXCAVATION | CU YD |
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | EACH |
| 63200310 | GUARDRAIL REMOVAL | FOOT |
| 78200410 | GUARDRAIL MARKERS, TYPE A | EACH |
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| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
|--------------|-------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|---------|
| P | IL 96 | ROADWAY | NE QUAD | MATCH EXISTING | MATCH EXISTING | 75.00 | 1 | 125.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | 75.00 | 1 | 125.00 | - | 1 | - | - | |
| Q | IL 96 | SN 001-0074 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| R | IL 61 | SN 001-0078 | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| S | IL 61 | SN 001-0077 | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| T | IL 61 | SN 001-0003 | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| TOTAL | | | | | | 1075.00 | 40 | 3075.00 | 24 | 40 | 8 | 40.0 | |

SCHUYLER CO.

| | | |
|----------|---|-------|
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|----------|--------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|---------|
| U | IL 101 | SN 085-0025 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | 1 | 5.0 | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | 1 | 5.0 | |
| V | IL 101 | SN 085-0020 | NW QUAD | MATCH EXISTING | MATCH EXISTING | 93.75 | 1 | 143.75 | 3 | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | 93.75 | 1 | 143.75 | 3 | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | 81.25 | 1 | 131.25 | 2 | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | 81.25 | 1 | 131.25 | 2 | 1 | - | - | |
| W | IL 101 | SN 085-0016 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| X | IL 101 | SN 085-0013 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| Y | IL 101 | SN 085-0026 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |

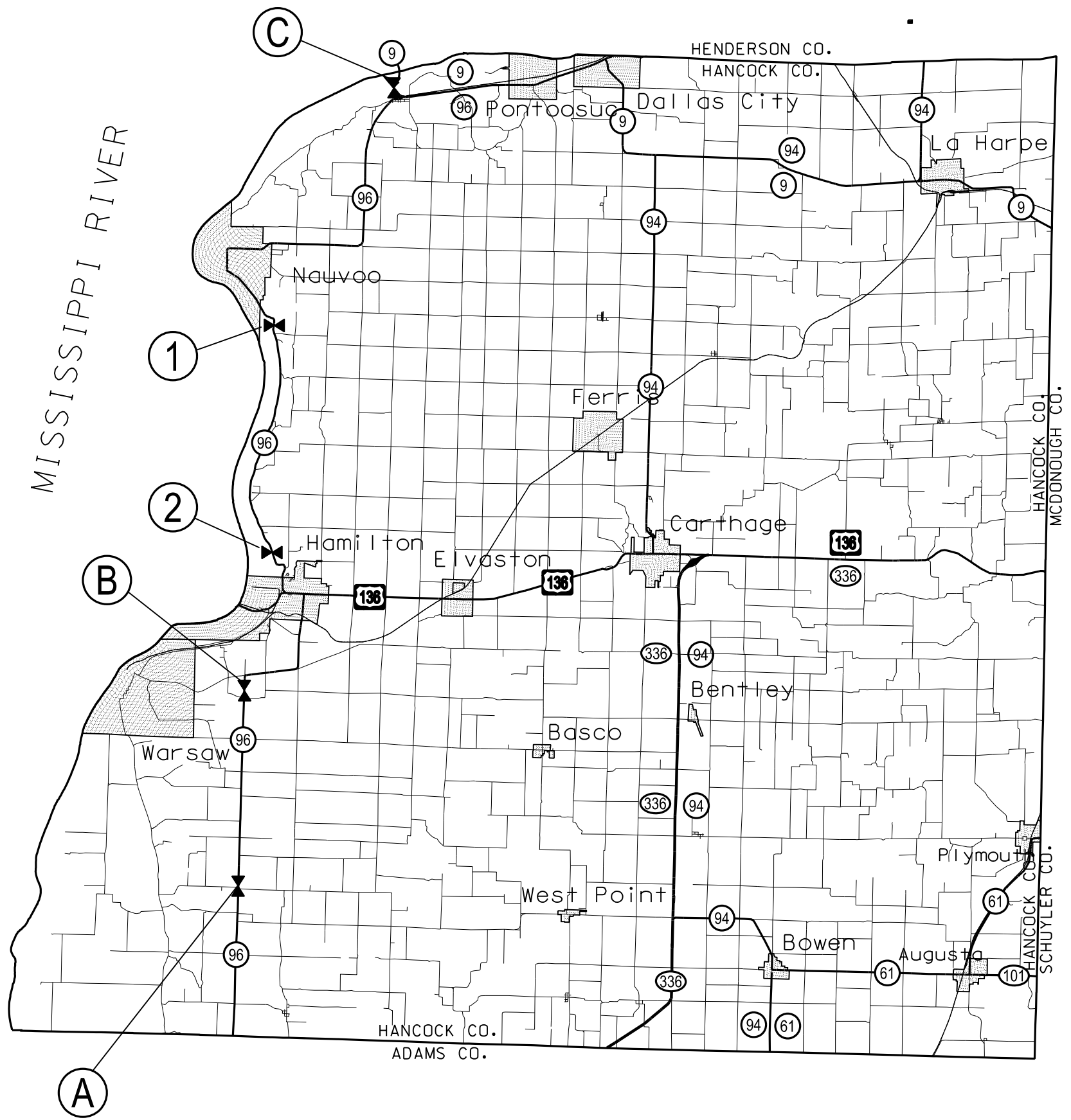
SCHUYLER CO.

| | | |
|----------|---|-------|
| 20400800 | FURNISHED EXCAVATION | CU YD |
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | EACH |
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| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
|----------|--------|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|---------|
| Z | IL 99 | SN 085-0029 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | 1 | 5.0 | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | 1 | 5.0 | |
| AA | IL 103 | SN 085-0027 | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| BB | IL 103 | SN 085-0028 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| CC | IL 103 | ROADWAY | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| DD | IL 103 | ROADWAY | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| EE | IL 103 | ROADWAY | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |

SCHUYLER CO.

| 20400800 | FURNISHED EXCAVATION | | | | | | | | | | | CU YD | |
|--------------|---|----------------|-----------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------|-------------------|---------|
| 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | | | | | | | | | | | FOOT | |
| 63100167 | TRAFFIC BARRIER TERMINAL, TY 1, SPECIAL (TANGENT) | | | | | | | | | | | EACH | |
| 63200310 | GUARDRAIL REMOVAL | | | | | | | | | | | FOOT | |
| 78200410 | GUARDRAIL MARKERS, TYPE A | | | | | | | | | | | EACH | |
| 78201000 | TERMINAL MARKER, DIRECT APPLIED | | | | | | | | | | | EACH | |
| LOCATION | ROUTE | STRUCTURE TYPE | DIRECTION | GUARDRAIL OFFSET (FOOT) | GUARDRAIL HEIGHT (INCHES) | SPBGR TY A, 9FT. POST (FOOT) | TERMINAL TY. 1 (SPL) (EACH) | GUARDRAIL REMOVAL (FOOT) | GUARDRAIL MARKERS, TY A (EACH) | TERMINAL MARKER (EACH) | SOIL PADS (EACH) | FURN. EX. (CU YD) | REMARKS |
| LL | IL 103 | SN 085-0004 | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| MM | IL 103 | ROADWAY | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| NN | IL 103 | ROADWAY | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| OO | IL 103 | ROADWAY | NW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | NE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| PP | IL 103 | ROADWAY | SW QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| | | | SE QUAD | MATCH EXISTING | MATCH EXISTING | - | 1 | 50.00 | - | 1 | - | - | |
| TOTAL | | | | | | 350.00 | 56 | 3150.00 | 10 | 56 | 4 | 20.0 | |



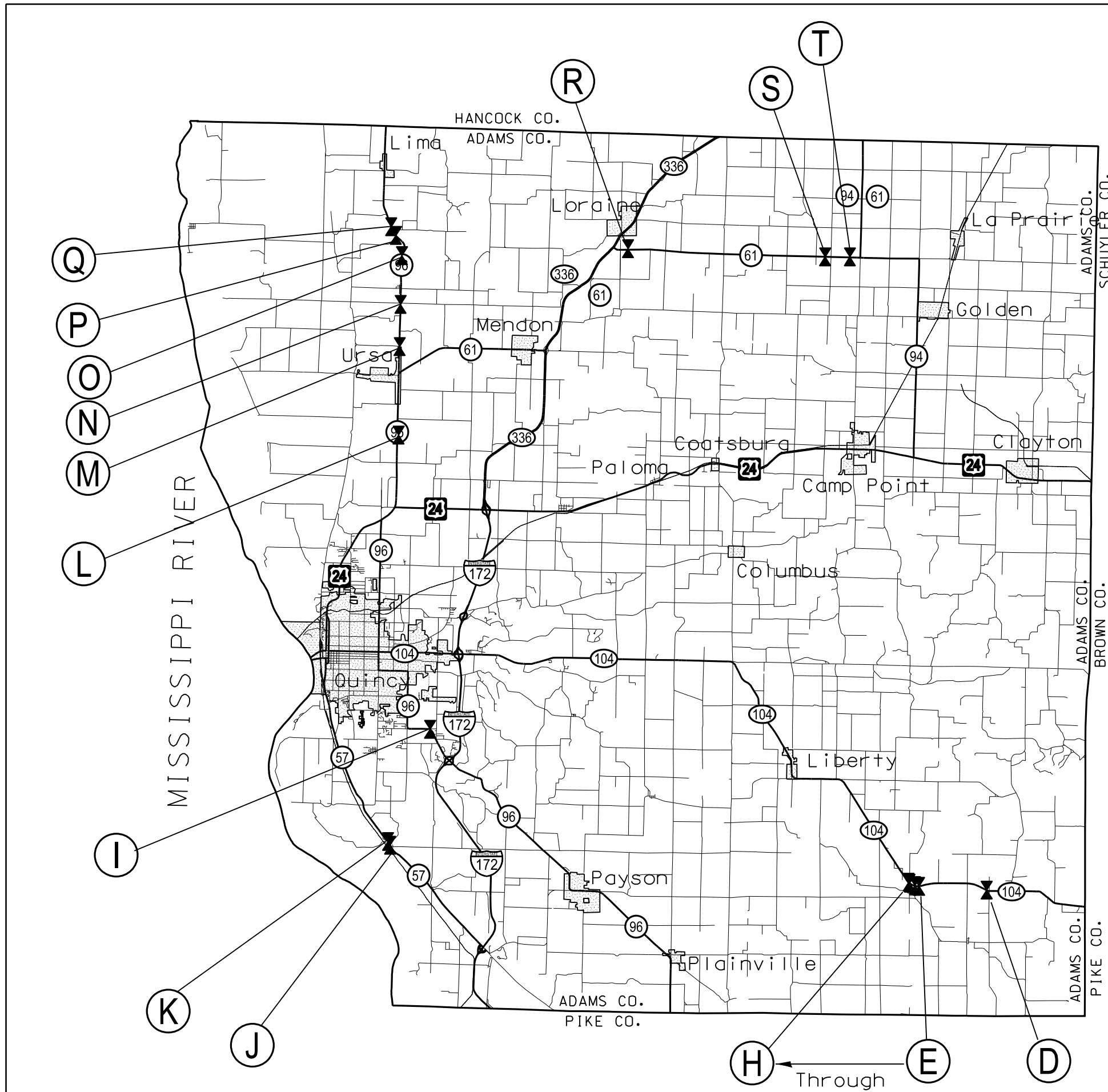
| HANCOCK COUNTY | | |
|----------------|--|-------|
| LOCATION | DESCRIPTION LOCATION | ROUTE |
| A | Proceeding 4.60 miles to the North from the Adams/Hancock Co. line on IL 96 | IL 96 |
| B | Proceeding 10.60 miles to the North from the Adams/Hancock Co. line on IL 96 | |
| C | Proceeding 0.40 miles to the Northwest from the Intersection of IL 9 / IL 96 toward Ft. Madison, IA. | IL 9 |
| 1 | Proceeding 24.60 miles to the North from the Adams/Hancock Co. line on IL 96 | IL 96 |
| 2 | Proceeding 17.30 miles to the North from the Adams/Hancock Co. line on IL 96 | |

| | | | |
|--|------------------------------------|------------|-----------|
| FILE NAME = | USER NAME = Sparksgw | DESIGNED - | REVISED - |
| c:\pwork\pwork\sparksgw\ad0247485\0672E17-sht-location.dgn | | DRAWN - | REVISED - |
| | PLOT SCALE = 20000.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = Mar-24-2011 08:31:54AM | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-----------|-----------|--------------|
| D6 GUARDRAIL END REPL GUARDRAIL LOCATION SHEETS | | | |
| SCALE: | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | ** | * | 19 | 11 |
| CONTRACT NO. 72E17 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



| ADAMS COUNTY | | |
|--------------|--|--------|
| LOCATION | DESCRIPTION | ROUTE |
| D | Proceeding 3.50 miles to the West from the Adams/Pike Co. line on IL 104 | IL 104 |
| E | Proceeding 5.90 miles to the West from the Adams/Pike Co. line on IL 104 | |
| F | Proceeding 6.05 miles to the West from the Adams/Pike Co. line on IL 104 | |
| G | Proceeding 6.25 miles to the West from the Adams/Pike Co. line on IL 104 | |
| H | Proceeding 6.30 miles to the West from the Adams/Pike Co. line on IL 104 | |
| I | Proceeding 1.25 miles to the Northwest from the Interchange of IL 96/I-172 on IL 96. | IL 96 |
| J | Proceeding 4.80 miles to the Northwest from the Interchange of IL 57/I-172 on IL 57. | IL 57 |
| K | Proceeding 4.95 miles to the Northwest from the Interchange of IL 57/I-172 on IL 57. | |
| L | Proceeding 7.80 miles to the North from the intersection of IL 96/IL 104 in Quincy | IL 96 |
| M | Proceeding 10.80 miles to the North from the intersection of IL 96/IL 104 in Quincy | |
| N | Proceeding 12.30 miles to the North from the intersection of IL 96/IL 104 in Quincy | |
| O | Proceeding 13.90 miles to the North from the intersection of IL 96/IL 104 in Quincy | |
| P | Proceeding 14.80 miles to the North from the intersection of IL 96/IL 104 in Quincy | |
| Q | Proceeding 15.15 miles to the North from the intersection of IL 96/IL 104 in Quincy | |
| R | Proceeding 0.50 miles to the East from the intersection of IL 61/IL 336 on IL 61 | IL 61 |
| S | Proceeding 7.20 miles to the East from the intersection of IL 61/IL 336 on IL 61 | |
| T | Proceeding 8.20 miles to the East from the intersection of IL 61/IL 336 on IL 61 | |

| | | | |
|---|------------------------------------|------------|-----------|
| FILE NAME = | USER NAME = Sparksgw | DESIGNED - | REVISED - |
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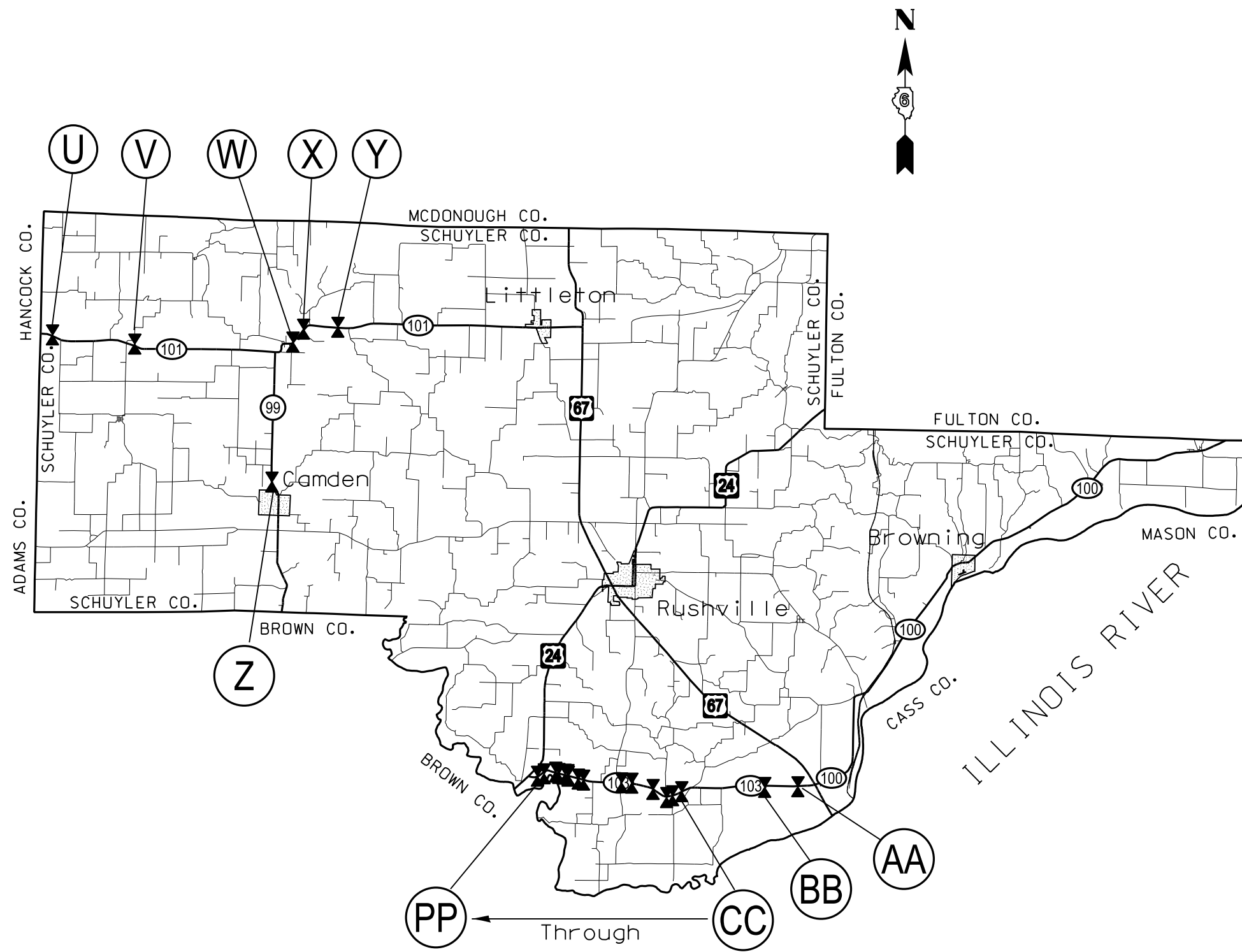
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-----------|-----------|--------------|
| D6 GUARDRAIL END REPL GUARDRAIL LOCATION SHEETS | | | |
| SCALE: | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | ** | * | 19 | 12 |
| CONTRACT NO. 72E17 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SCHUYLER COUNTY

| LOCATION | DESCRIPTION LOCATION | ROUTE |
|----------|---|--------|
| U | Proceeding 0.40 miles to the East from the of Hancock/Schuyler Co. line on IL 101 | IL 101 |
| V | Proceeding 3.00 miles to the East from the of Hancock/Schuyler Co. line on IL 101 | |
| W | Proceeding 8.25 miles to the East from the of Hancock/Schuyler Co. line on IL 101 | |
| X | Proceeding 8.75 miles to the East from the of Hancock/Schuyler Co. line on IL 101 | |
| Y | Proceeding 9.85 miles to the East from the of Hancock/Schuyler Co. line on IL 101 | |
| Z | Proceeding 4.00 miles to the South from the intersection of IL 99/IL 101 | IL 99 |
| AA | Proceeding 0.45 miles to the West from the intersection of IL 103/US 67 | IL 103 |
| BB | Proceeding 1.30 miles to the West from the intersection of IL 103/US 67 | |
| CC | Proceeding 3.90 miles to the West from the intersection of IL 103/US 67 | |
| DD | Proceeding 4.20 miles to the West from the intersection of IL 103/US 67 | |
| EE | Proceeding 4.40 miles to the West from the intersection of IL 103/US 67 | |
| FF | Proceeding 4.90 miles to the West from the intersection of IL 103/US 67 | |
| GG | Proceeding 5.60 miles to the West from the intersection of IL 103/US 67 | |
| HH | Proceeding 5.90 miles to the West from the intersection of IL 103/US 67 | |
| II | Proceeding 7.10 miles to the West from the intersection of IL 103/US 67 | |
| JJ | Proceeding 7.25 miles to the West from the intersection of IL 103/US 67 | |
| KK | Proceeding 7.60 miles to the West from the intersection of IL 103/US 67 | |
| LL | Proceeding 7.70 miles to the West from the intersection of IL 103/US 67 | |
| MM | Proceeding 7.80 miles to the West from the intersection of IL 103/US 67 | |
| NN | Proceeding 8.00 miles to the West from the intersection of IL 103/US 67 | |
| OO | Proceeding 8.40 miles to the West from the intersection of IL 103/US 67 | |
| PP | Proceeding 8.60 miles to the West from the intersection of IL 103/US 67 | |

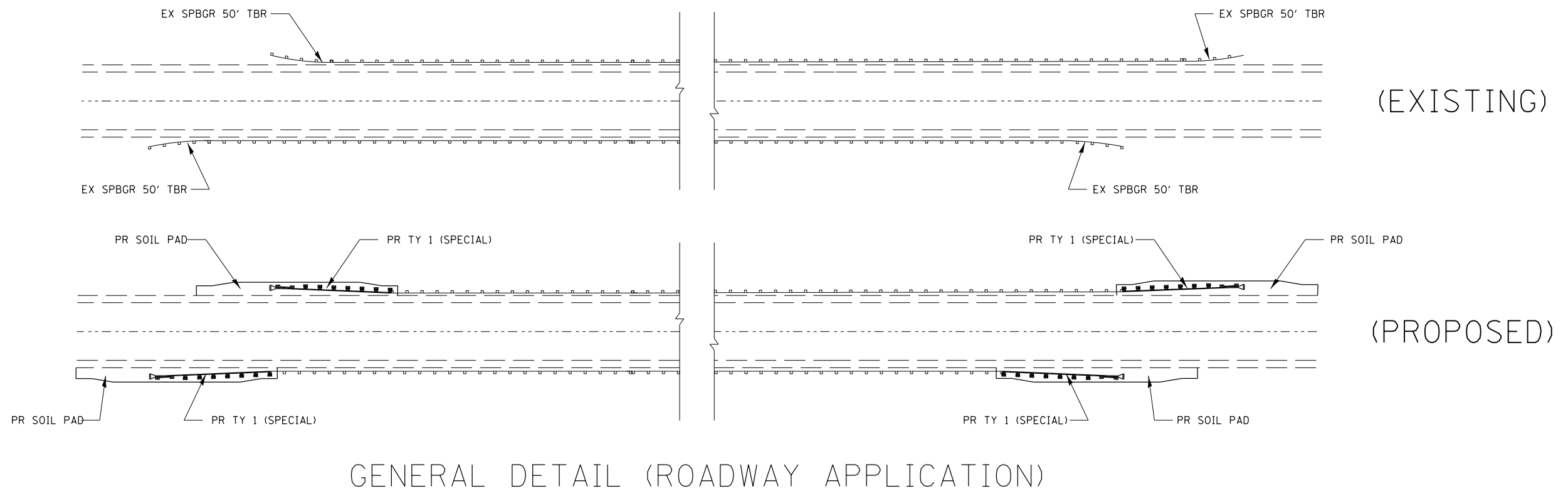
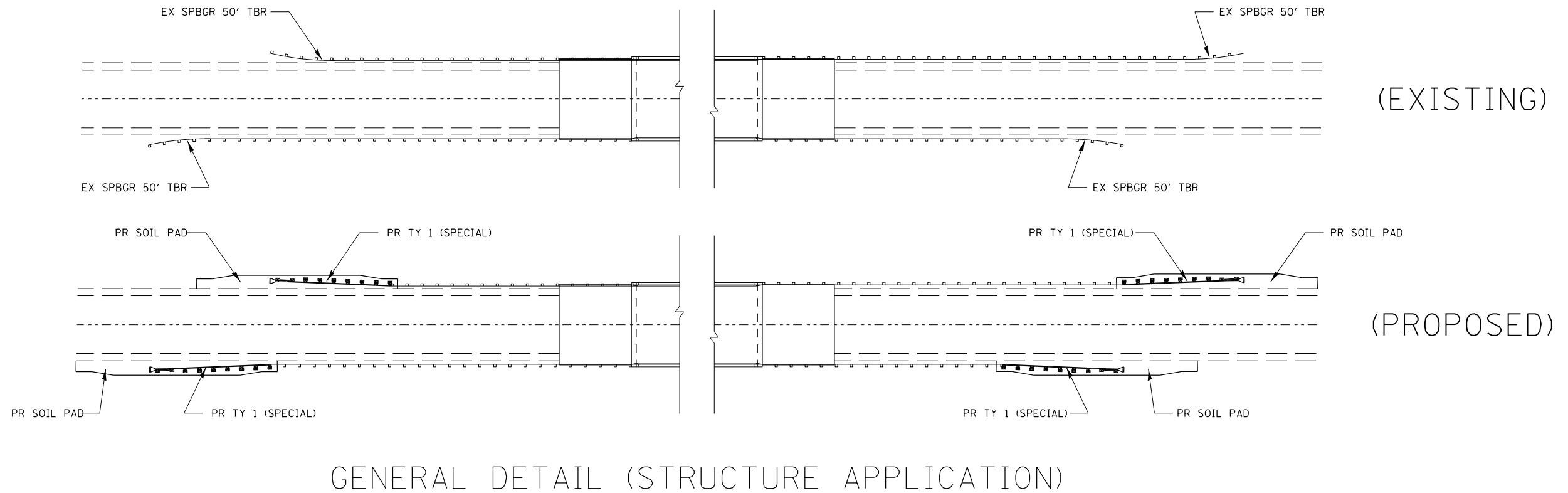


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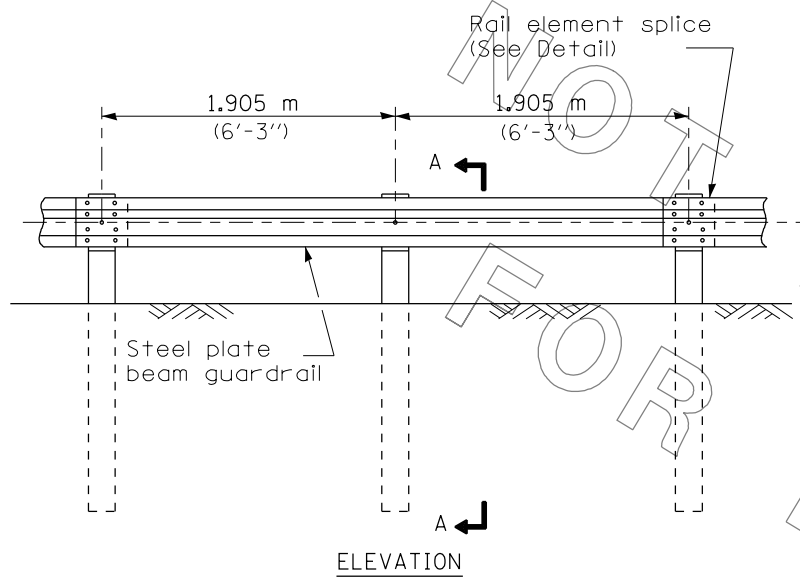
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-----------|-----------|--------------|
| D6 GUARDRAIL END REPL GUARDRAIL LOCATION SHEETS | | | |
| SCALE: | SHEET NO. | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | ** | * | 19 | 13 |
| CONTRACT NO. 72E17 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

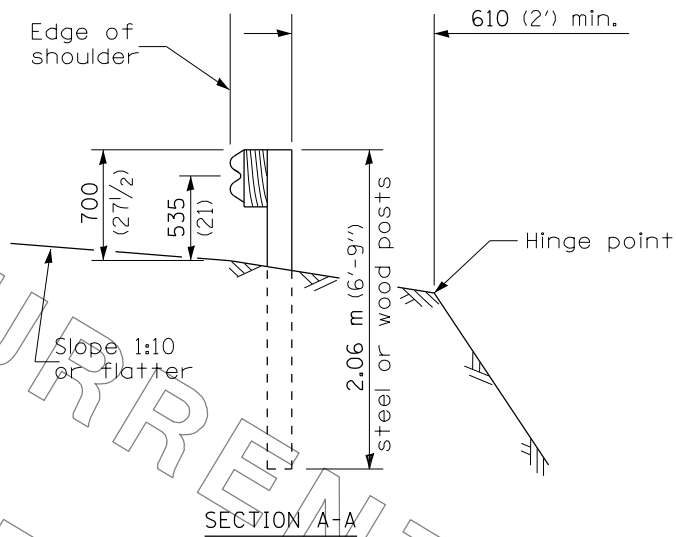


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| PLOT DATE = Mar-24-2011 08:32:20AM | DATE - | REVISED - | REVISED - | | SCALE: | SHEET NO. | OF SHEETS | STA. | TO STA. | ** D6 GUARDRAIL END REPL 2011-3 • ADAMS, HANCOCK & SCHUYLER CO. | | |

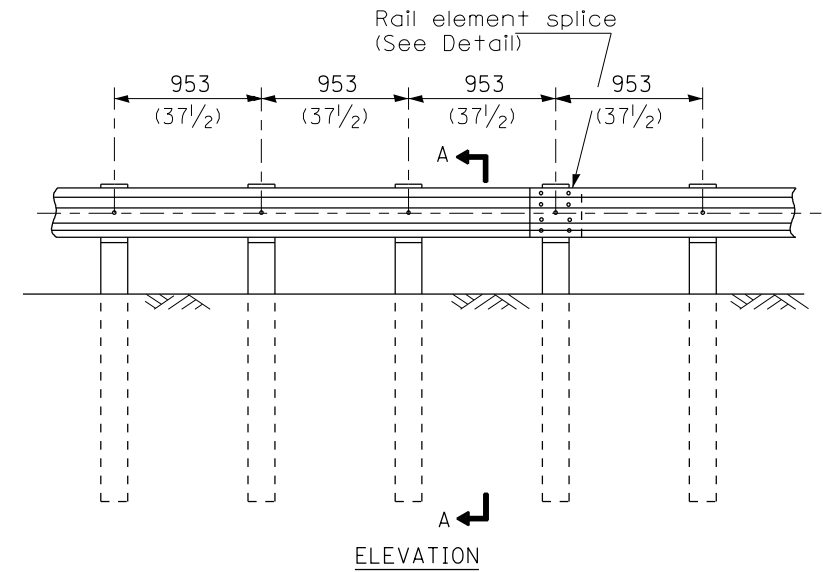


TYPE A

1.905 m (6'-3") Typical post spacing

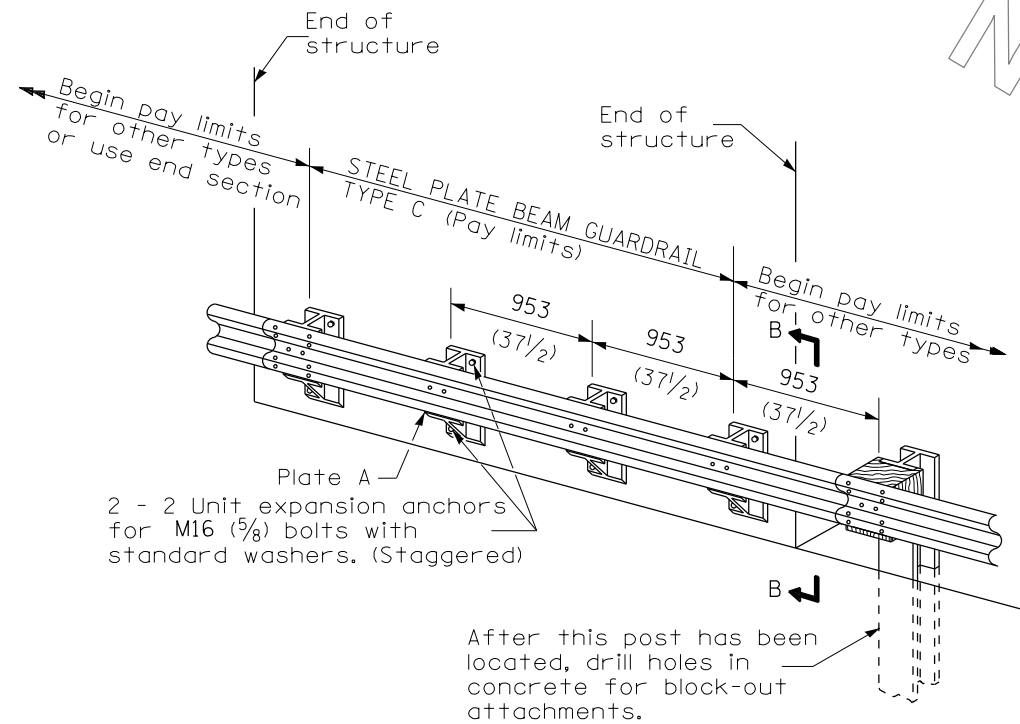


SECTION A-A



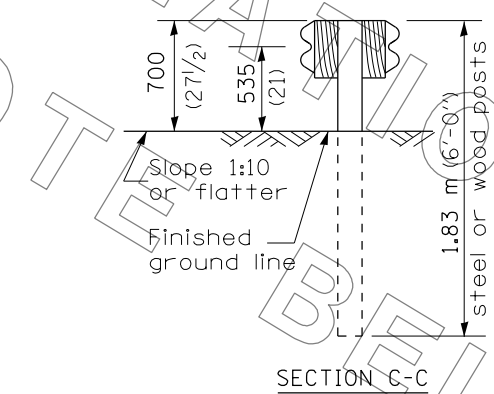
TYPE B

953 (37 1/2) Closed post spacing

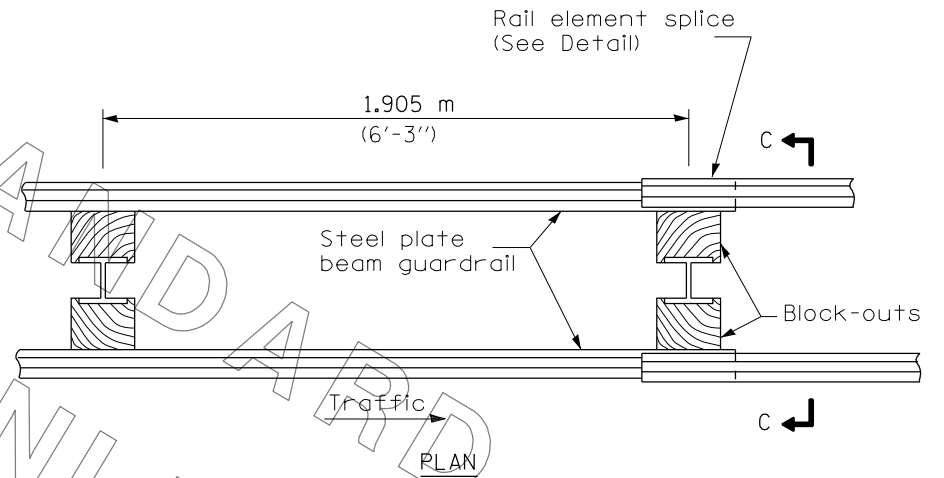


TYPE C

953 (37 1/2) Block-out spacing

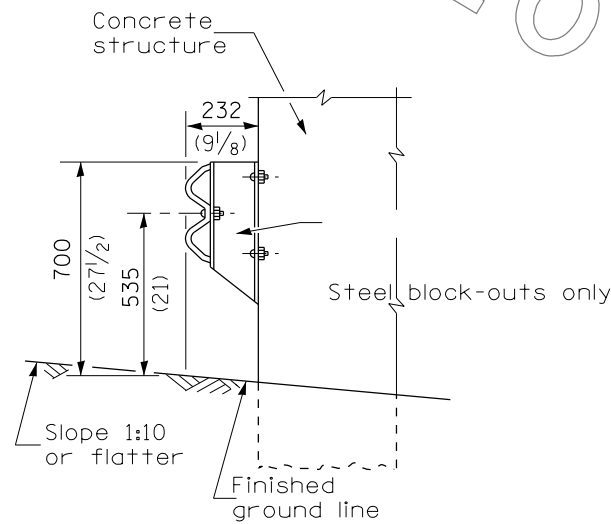


SECTION C-C



TYPE D

Double steel plate beam guardrail
1.905 m (6'-3") typical post spacing



SECTION B-B

NOTE:

THIS DETAIL SHALL BE USED FOR GUARDRAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING AND RE-ERECTING THE RAIL ELEMENT.

GENERAL NOTES

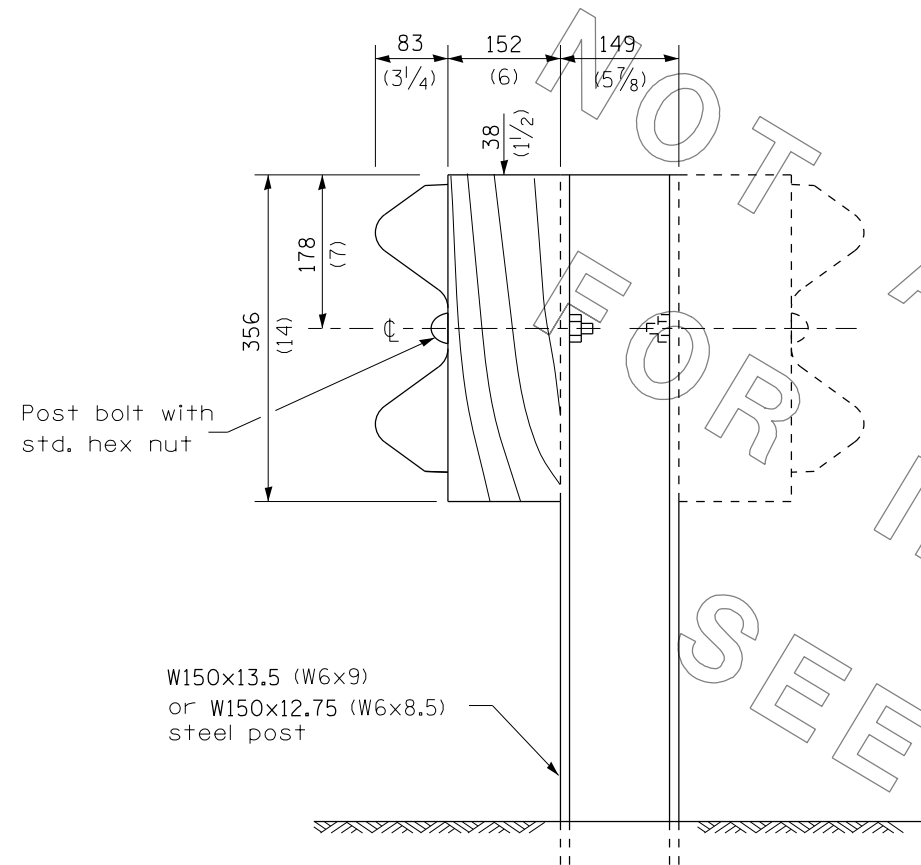
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

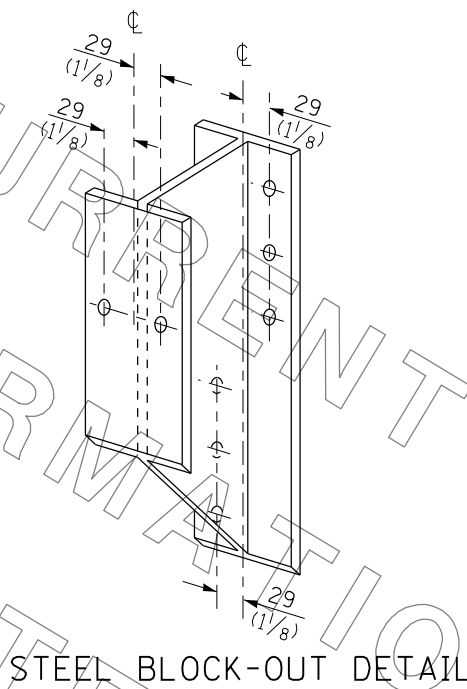
The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

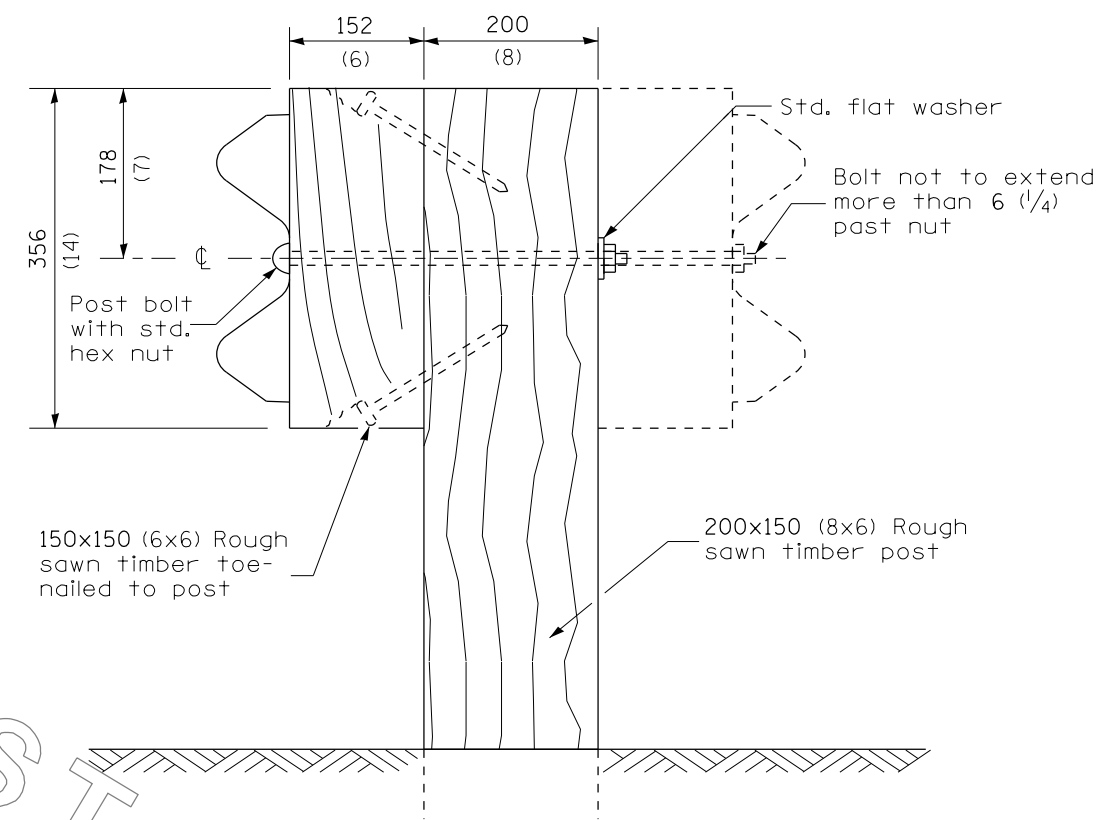
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| FILE NAME = | USER NAME = Sparksgw | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | D6 GUARDRAIL END REPL GUARDRAIL MODIFICATION SHEETS | | | | F.A.P. RT. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwork\pwork\sparksgw\0247485\0672E17-sht-guardrail-modification.dgn | | DRAWN - | REVISED - | | SCALE: | SHEET NO. | OF SHEETS | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | 19 | 15 |
| | | CHECKED - | REVISED - | | | | | | CONTRACT NO. 72E17 | | | | |
| | | DATE - | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | | | | |



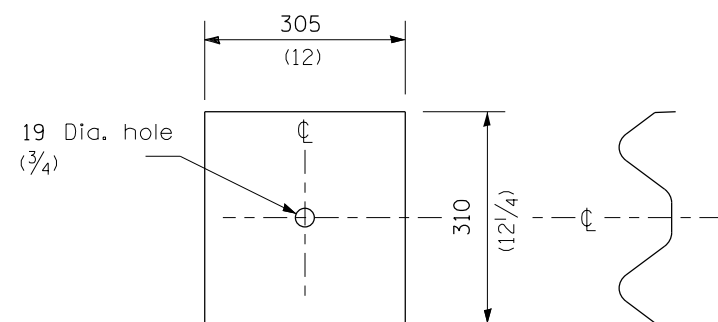
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



WOOD POST CONSTRUCTION



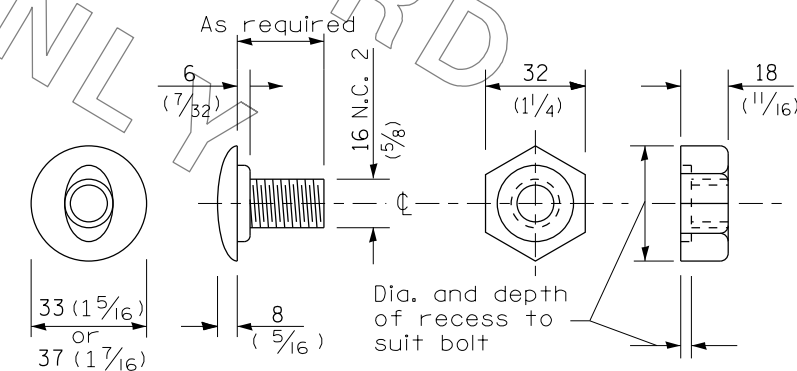
NOTE

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

PLATE A

NOTE:

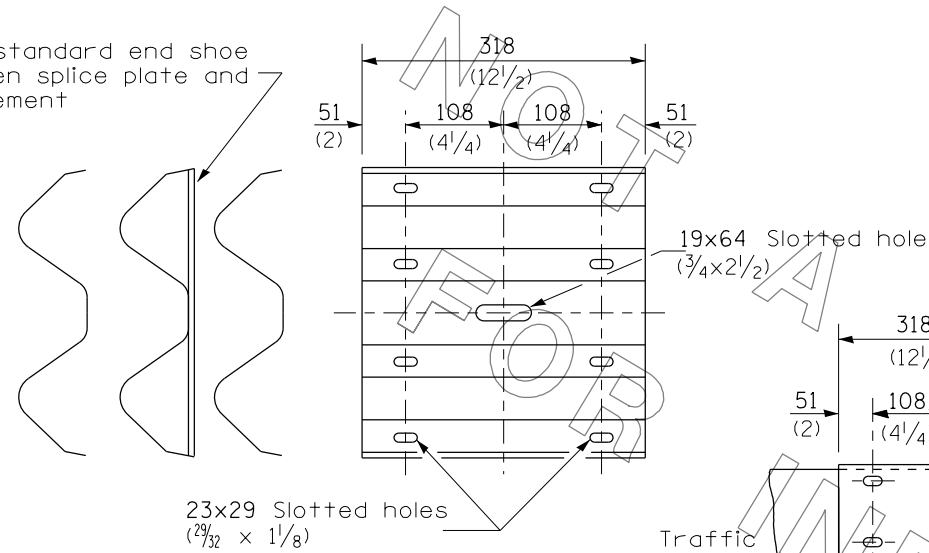
THIS DETAIL SHALL BE USED FOR GUARDRAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING AND RE-ERECTING THE RAIL ELEMENT.



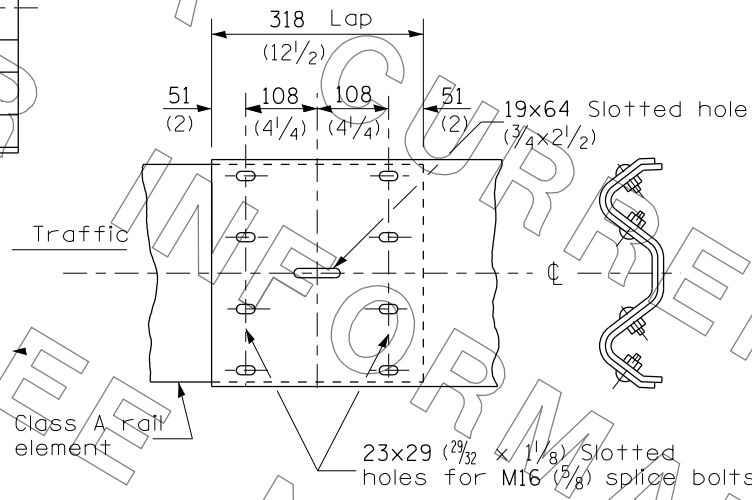
POST OR SPLICE BOLT & NUT

| | | | | | | | | | | | | |
|--|----------------------|------------|---------------------------|---|--|-----------|-----------|-------------|---------|---------------------------|--------------|-----------|
| FILE NAME = | USER NAME = Sparksgw | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | D6 GUARDRAIL END REPL GUARDRAIL MODIFICATION SHEETS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| PLOT SCALE = 100.0000' / 1in. | CHECKED - | REVISED - | CONTRACT NO. 72E17 | | | | | | | | | |
| PLOT DATE = Mar-24-2011 08:32:25AM | DATE - | REVISED - | ILLINOIS FED. AID PROJECT | | | | | | | | | |
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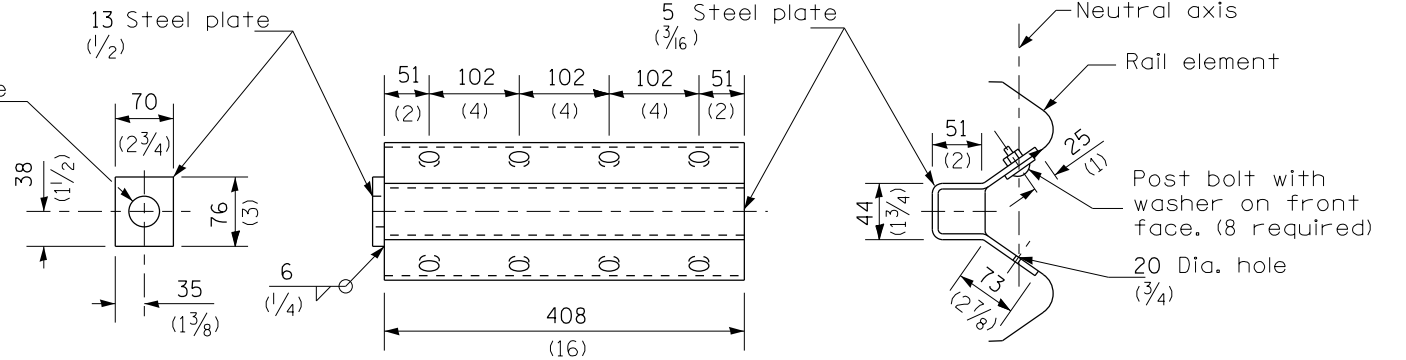
Place standard end shoe between splice plate and rail element



SPLICE PLATE

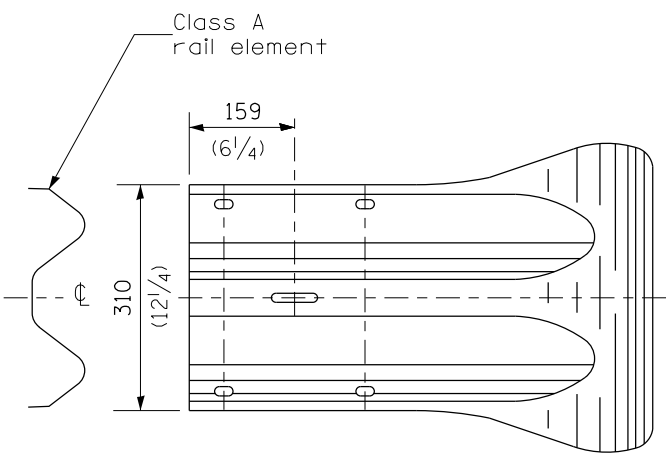
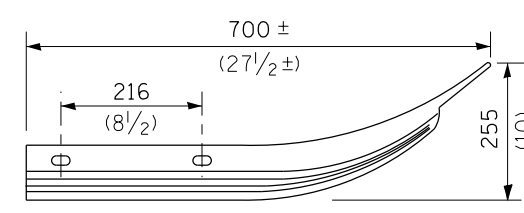


RAIL ELEMENT SPLICE

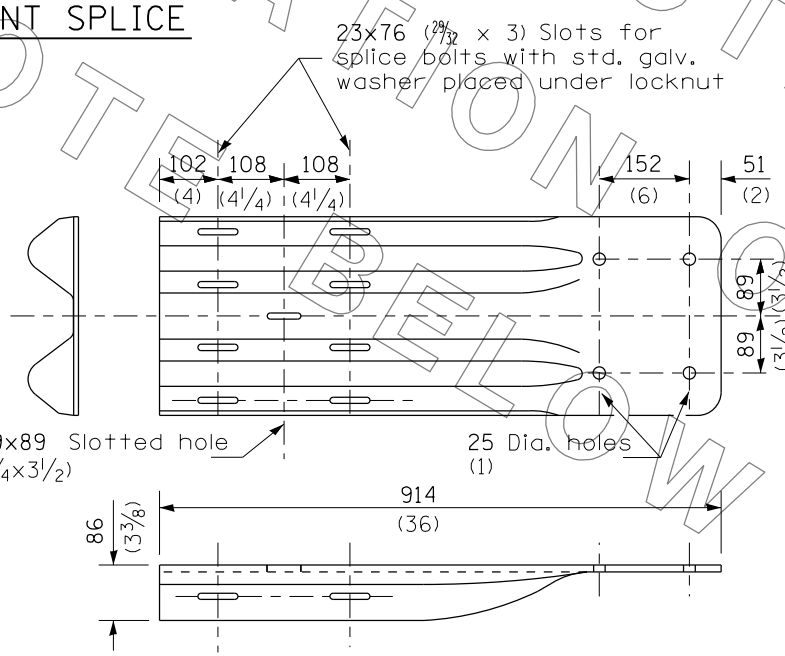


NOTE
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

ANCHOR PLATE T DETAILS



END SECTION

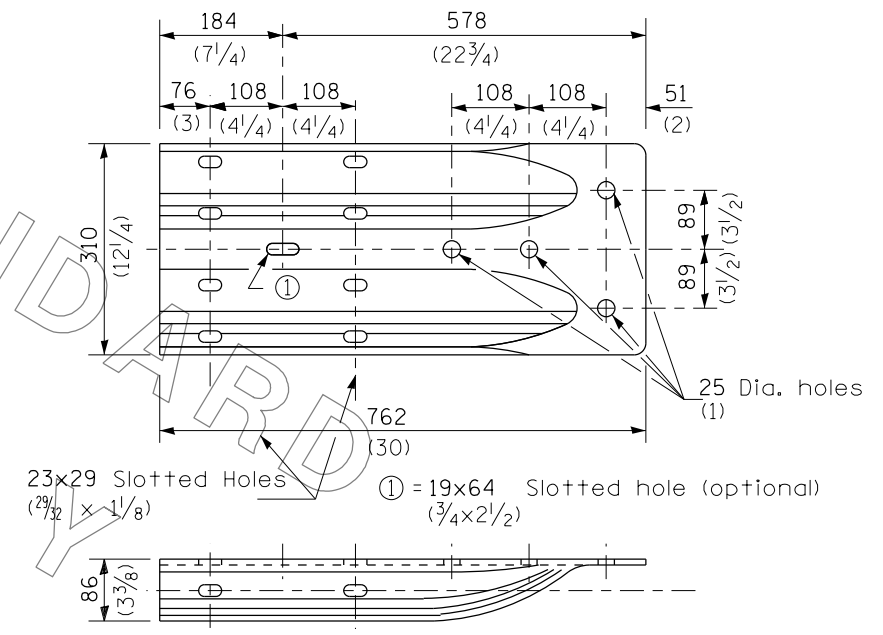


NOTE
When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

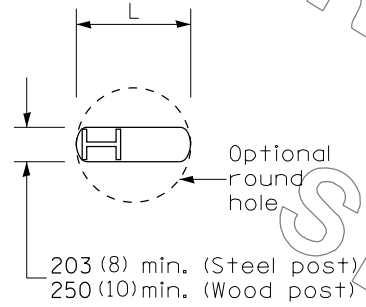
END SHOE



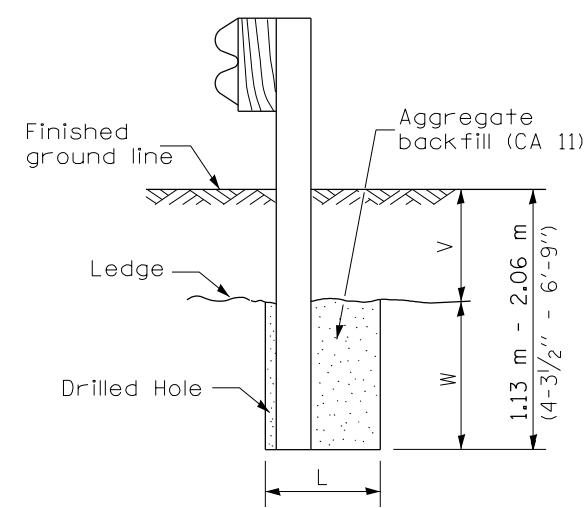
ALTERNATE END SHOE

NOTE:
THIS DETAIL SHALL BE USED FOR GUARDRAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING AND RE-ERECTING THE RAIL ELEMENT.

| | | | | | | | | | | | | | |
|---|----------------------|------------|-----------|---|--|-----------|-----------|------|------------|----------|------------------|--------------|-----------|
| FILE NAME = | USER NAME = Sparksgw | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | D6 GUARDRAIL END REPL GUARDRAIL MODIFICATION SHEETS | | | | F.A.P. RE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwwork\pwwork\sparksgw\d0247485\0672E17-sht-guardrail-modification.dgn | | DRAWN - | REVISED - | | SCALE: | SHEET NO. | OF SHEETS | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | 19 | 17 |
| | | CHECKED - | REVISED - | | | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | | |



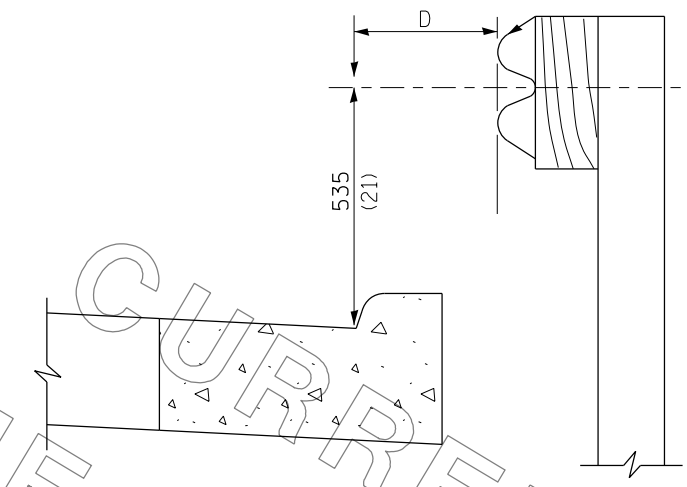
PLAN



ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

Note:
Ledge line is top of rock ledge or hard slag fill.



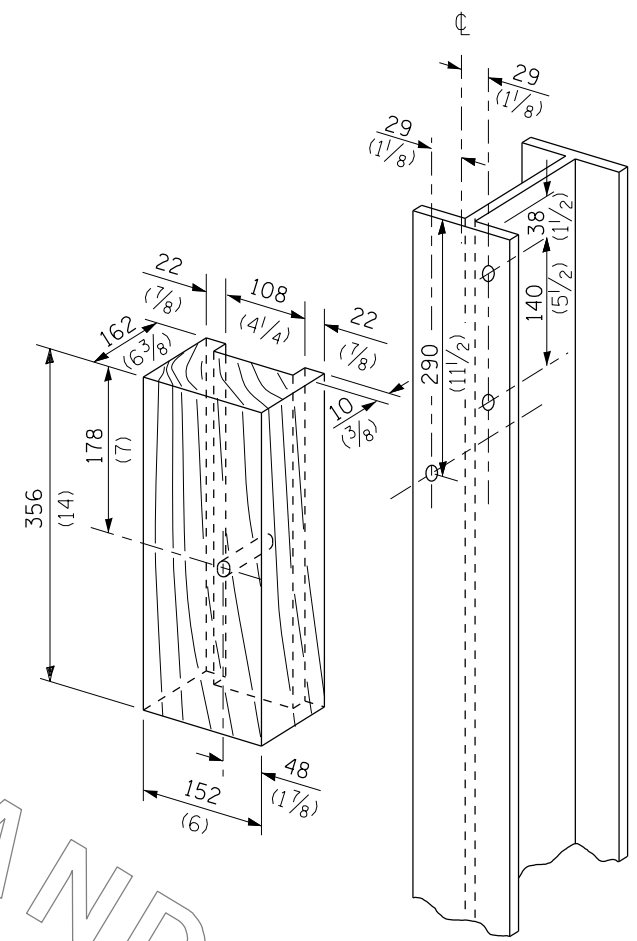
Note:
If it is necessary for D to be more than 300 (12) and less than 3.0 m (10'-0'') type M-5 (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

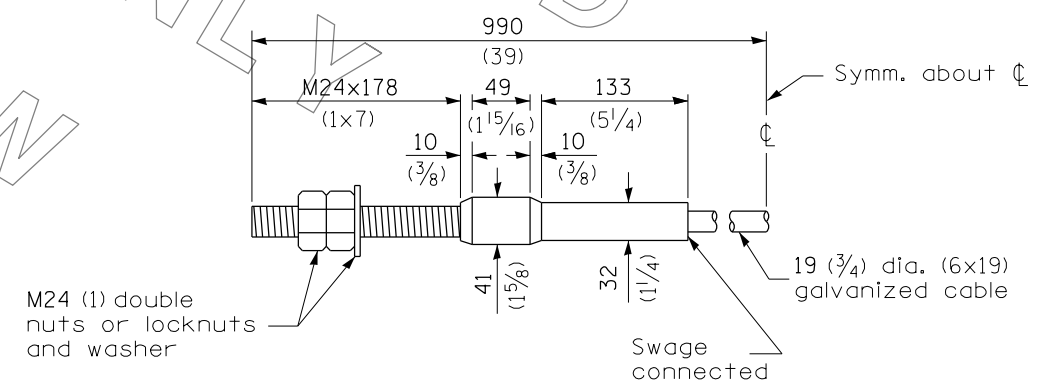
(D = 0 desirable to 300 (12) maximum)

| V | W | L | |
|---------------------------------|---------------------|-------------|-------------|
| | | Steel Post | Wood Post |
| 0 - 460 (0 - 18) | 610 (24) | 530 (21) | 580 (23) |
| >460 - 825 (>18 - 41.5) | 305 (12) | 203 (8) | 250 (10) |
| >825 - 1.13 m (>41.5 - 53.5) | 305 - 0 (12 - 0) | 203 (8) | 250 (10) |

NOTE:
THIS DETAIL SHALL BE USED FOR GUARDRAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING AND RE-ERECTING THE RAIL ELEMENT.



WOOD BLOCK-OUT AND STEEL POST DETAILS

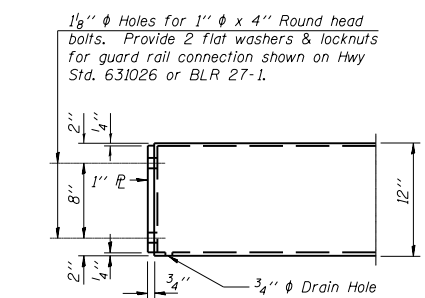
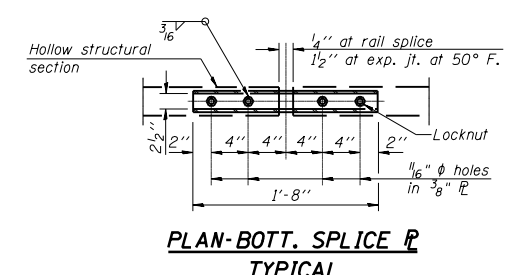
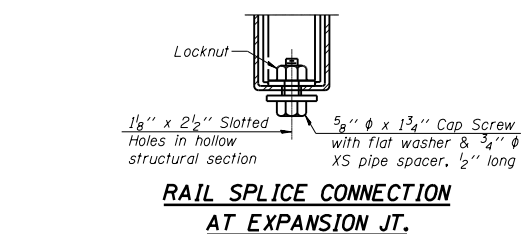
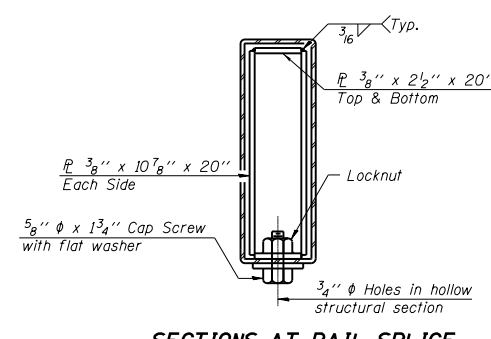
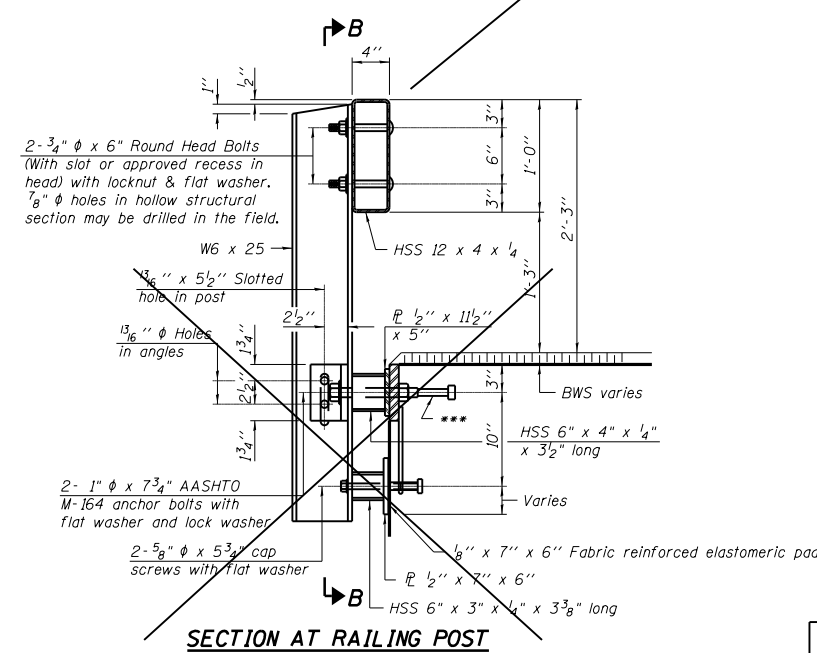
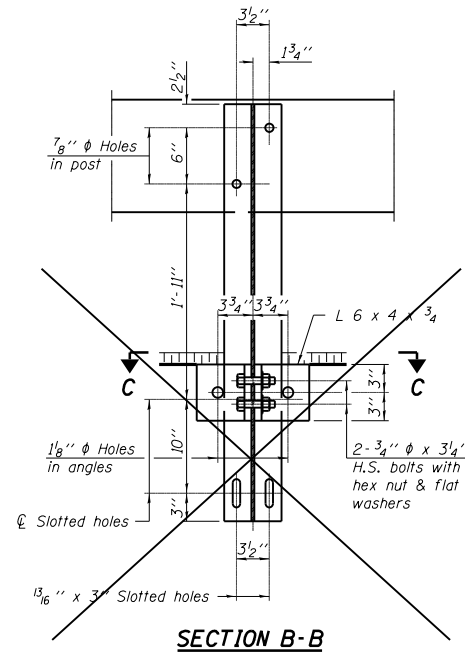
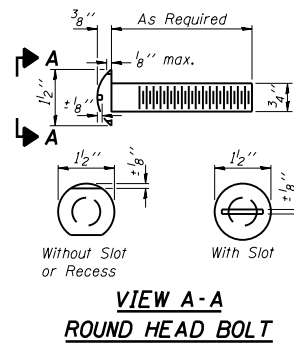


CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)
Tighten to taut tension.

BRIDGERAIL MODIFICATION DETAIL

NOTE:
BRIDGE RAIL ONLY REPLACEMENT



STEEL RAILING, TYPE S-1
STRUCTURE NO.

NOTE:
THIS DETAIL SHALL BE USED FOR BRIDGERAIL REPAIRS WHERE NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE TIED INTO EXISTING STEEL PLATE BEAM GUARDRAIL AS WELL AS FOR REMOVING EXISTING RAIL AND ERECTING THE NEW RAIL ELEMENT.

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

| Item | Unit | Quantity |
|-------------------------|------|----------|
| Bridge Rail Removal | Foot | 546.0 |
| Steel Railing, Type S-1 | Foot | 546.0 |