

# PLANS FOR PROPOSED MAJOR BRIDGE PROGRAM

## CH 24 – FAU 7355 (REAS BRIDGE ROAD) MACON COUNTY SECTION 12-00251-00-BR PROJECT A2HA(541) JOB C-97-006-22

| F.A.U. RTE. | SECTION        | COUNTY   | TOTAL SHEETS       | SHEET NO. |
|-------------|----------------|----------|--------------------|-----------|
| 7355        | 12-00251-00-BR | MACON    | 196                | 1         |
|             |                | ILLINOIS | CONTRACT NO. 95912 |           |

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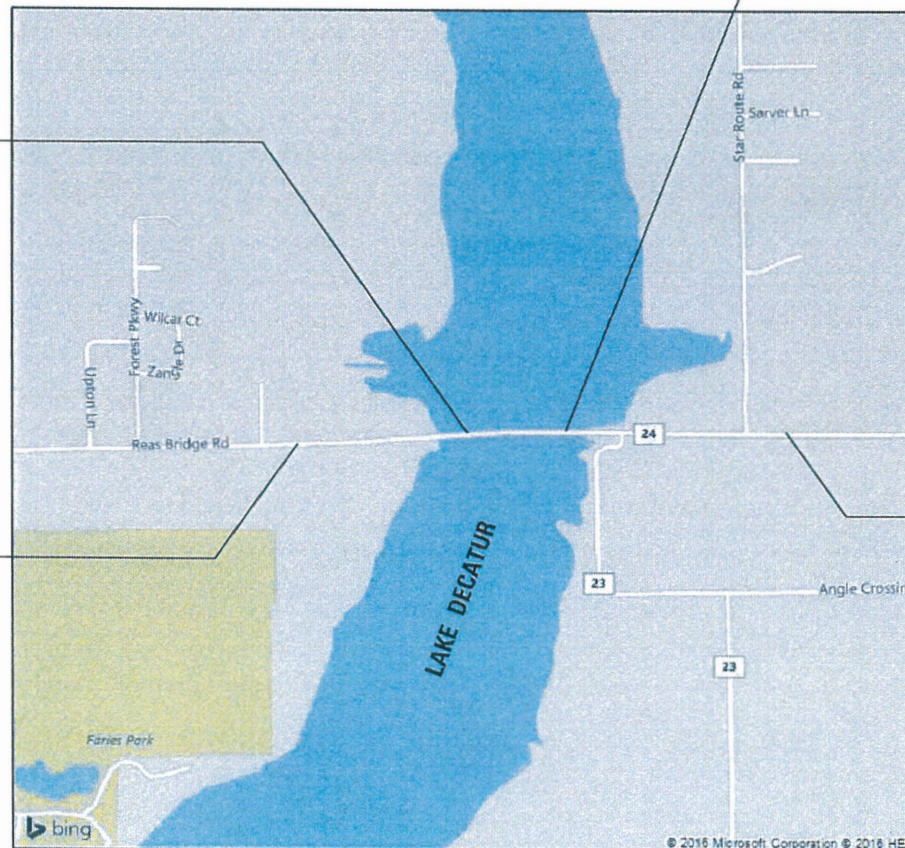
FUNCTIONAL CLASSIFICATION – RURAL MAJOR COLLECTOR  
 2022 ADT = 2450  
 2042 ADT = 2950  
 P.V. = 94% S.U. = 4% M.U. = 2%

PROPOSED STRUCTURE  
 STA 44 + 05.50  
 PROPOSED STRUCTURE NO. 058-3408  
 EXISTING STRUCTURE NO. 058-3032

PROPOSED STRUCTURE  
 STA 33 + 69.00  
 PROPOSED STRUCTURE NO. 058-3409  
 EXISTING STRUCTURE NO. 058-3033

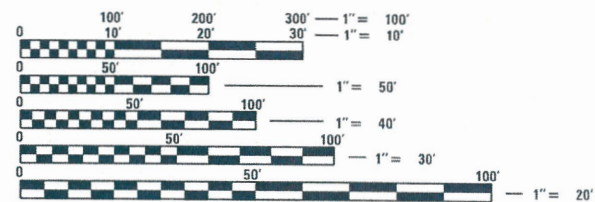
PROJECT ENDS  
 STA 59 + 25.00

PROJECT BEGINS  
 STA 16 + 50.00



LOCATION MAP

GROSS LENGTH = 4,275 FT. = 0.810 MILE  
 NET LENGTH = 4,275 FT. = 0.810 MILE



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

HLC PROJECT NO 6407  
 HLC FIELD BOOK NO 525

CONTRACT NO. 95912



Jeremy Buening 2/9/23  
 JEREMY BUENING, P.E., S.E. DATE  
 LICENSE EXPIRES 11/30/23

APPROVED: 2-24/23  
 COUNTY BOARD CHAIRMAN

PASSED: 02/24/23  
 DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

Releasing For Bid Based on Limited Review: 02/24/23  
 REGION FOUR ENGINEER

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS  
 DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397



GENERAL NOTES

GENERAL NOTES - CONT.

UTILITY GENERAL NOTES

1. REFERENCES TO THE "SSRB" SHALL BE INTERPRETED AS REFERENCES TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022. COPIES OF THESE SPECIFICATIONS CAN BE PURCHASED FROM THE FOLLOWING ORGANIZATION:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
2300 S. DIRKSEN PARKWAY  
SPRINGFIELD, IL 62764  
<http://www.idot.illinois.gov/home/resources/Manuals/Manuals-and-Guides>
2. ILLINOIS DEPARTMENT OF TRANSPORTATION HIGHWAY STANDARDS, WITH THE REVISION NUMBERS SHOWN IN THE STANDARDS LIST, SHALL APPLY TO THIS CONTRACT.
3. THE DESIGN ENGINEER SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR. SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY ACTS GOVERNING THE WORKPLACE. IN ADDITION, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL BE MODIFIED AS FOLLOWS:  
  
UNDER ARTICLE 105.01, ADD THE FOLLOWING SENTENCE: NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF HIS/HER DUTY TO OBSERVE AND COMPLY WITH ALL APPLICABLE LAWS, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S COMPLIANCE OR NON-COMPLIANCE WITH SUCH LAWS.  
  
UNDER ARTICLE 107.01, ADD THE FOLLOWING SENTENCE: THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S DUTY TO OBSERVE AND COMPLY WITH THE PROVISIONS OF THIS SECTION, OR FOR THE CONTRACTOR'S FAILURE TO DO SO.
4. THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS INCLUDES SAFETY OF ALL PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COUNTY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCE AND PROCEDURES OF CONSTRUCTION.
6. ALL CONTRACTORS WORKING WITHIN THE CITY OF DECATUR MUST BE LICENSED AND BONDED WITH THE CITY OF DECATUR.
7. ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND STATION CROSS-SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT LOCATIONS AS INDICATED.
8. ALL COORDINATES SHOWN ARE BASED ON THE ILLINOIS COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 2004 (NAD1983).
9. THE PLAN DIMENSIONS WERE DETERMINED FROM EXISTING PLANS AND FIELD SURVEYS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND EXISTING SITE CONDITIONS PRIOR TO BIDDING.

10. ENTRANCE RADII DIMENSIONS SHOWN ON PLAN SHEETS ARE TO EDGE OF PAVEMENT, ALL OTHER RADII SHOWN ON PLAN SHEETS ARE TO EDGE OF PAVEMENT.
11. ALL PAVEMENT ELEVATIONS SHOWN ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
12. STATION, OFFSET, AND ELEVATIONS OF CONCRETE PIPE CULVERTS ARE AT THE POINT OF CONNECTION TO THE FLARED END SECTION.
13. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES. ACCESS TO COMMERCIAL PROPERTIES SHALL REMAIN OPEN CONTINUOUSLY. ACCESS TO PRIVATE PROPERTIES SHALL NOT BE CLOSED FOR MORE THAN 8 HOURS. THE CONTRACTOR SHALL NOTIFY PRIVATE RESIDENTS A MINIMUM OF 24 HOURS IN ADVANCE OF ACCESS CLOSURE. MAINTAINING THE TEMPORARY ACCESS SHALL INCLUDE RELOCATING AND/OR REGRADING THE AGGREGATE SURFACE FOR ANY OPERATION THAT MAY DISTURB OR REMOVE THE TEMPORARY ACCESS. THE SAME TYPE AND GRADATION OF MATERIAL USED TO CONSTRUCT THE TEMPORARY ACCESS SHALL BE USED TO MAINTAIN IT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE FOR TEMPORARY ACCESS. QUANTITY SHOWN IS ESTIMATED.
15. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY, CITY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION.
16. ALL PERMANENT CHAIN LINK FENCE SHALL BE BLACK VINYL COATED TO MATCH BRIDGE RAILING.
16. CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL PERMITS FROM THE US ARMY CORP AND/OR IDNR FOR TEMPORARY CONSTRUCTION WORKS THAT INVOLVE PLACING FILL IN THE LAKE, SUCH AS TEMPORARY CAUSEWAYS, THAT IS BEYOND THE LIMITS OF THE PROPOSED EMBANKMENT. IF THROUGH COORDINATION WITH THOSE AGENCIES IT IS DETERMINED ADDITIONAL PERMITTING WOULD NOT BE REQUIRED, CONTRACTOR SHALL OBTAIN APPROVAL IN WRITING FROM THE THOSE THOSE AGENCIES AND SUBMIT TO THE ENGINEER.

1. THE CONTRACTOR SHALL COORDINATE WITH AMEREN PRIOR TO AND THROUGHOUT CONSTRUCTION ON STAGING FOR AMEREN TO RELOCATE HIGH VOLTAGE POLES LOCATED WITHIN PROJECT LIMITS.
2. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM RECORDS AND FIELD SURVEYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO EXCAVATION FOR THE PROJECT.
3. SOME UTILITY RELOCATIONS MAY HAVE ALREADY OCCURRED PRIOR TO CONSTRUCTION, THEREFORE ALL UTILITIES SHALL BE LOCATED PRIOR TO BEGINNING WORK TO IDENTIFY ANY CONFLICTS WHICH MAY EXIST.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES.

**COMMITMENTS**

1. TREE CLEARING RESTRICTION:  
TREES THREE INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30TH.
2. ENDANGERED SPECIES - KIRTLAND SNAKE:  
THE ENDANGERED KIRTLAND SNAKE MAY HAVE HABITAT WITHIN THE LIMITS OF CONSTRUCTION. AN INCIDENTAL TAKE AUTHORIZATION (ITA) HAS BEEN OBTAINED FROM THE IDNR AND SHALL BE ON SITE WITH THE CONTRACTOR AND RESIDENT ENGINEER AT ALL TIMES. ALL COMMITMENTS AND RESTRICTIONS OUTLINED IN THE FINAL SIGNED ITA MUST BE ADHERED TO AT ALL TIMES.
3. WETLAND IMPACTS:  
WETLANDS ARE DELINEATED WITHIN THE PROJECT LIMITS. IMPACTS TO THESE AREAS BY THE CONTRACTOR SHALL BE MINIMIZED AS MUCH AS POSSIBLE. WETLAND #2 IS CATEGORIZED AS A SEEP AND SHALL UNDER NO CIRCUMSTANCES BE IMPACTED BY CONSTRUCTION ACTIVITIES, AND THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS WHEN IN THE VICINITY OF THIS PARTICULAR WETLAND.

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
| PLOT SCALE = | DRAWN -    | REVISED - |
| PLOT DATE =  | CHECKED -  | REVISED - |
|              | DATE -     | REVISED - |



DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

|   |           |           |              |
|---|-----------|-----------|--------------|
| <b>GENERAL NOTES AND SPECIFICATIONS</b> |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b>         |           |           |              |
| SCALE:                                  | SHEET NO. | OF SHEETS | STA. TO STA. |

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 2         |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

HIGHWAY STANDARDS

|           |   |
|-----------|---|
| 000001-08 | 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   |
| 420001-10 | PAVEMENT JOINTS   |
| 420101-07 | 24' JOINTED PCC PAVEMENT  |
| 420401-13 | PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB                                     |
| 420701-03 | PAVEMENT WELDED WIRE REINFORCEMENT  |
| 424001-11 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS  |
| 482001-02 | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT  |
| 515001-04 | NAME PLATE FOR BRIDGES  |
| 542301-03 | PRECAST REINFORCED CONCRETE FLARED END SECTION  |
| 542401-04 | METAL FLARED END SECTIONS FOR PIPE CULVERTS   |
| 602301-04 | INLET TYPE A  |
| 602306-03 | INLET TYPE B  |
| 602401-07 | PRECAST MANHOLE TYPE A 4' DIAMETER  |
| 602701-02 | MANHOLE STEPS   |
| 604006-05 | FRAME AND GRATE TYPE 3  |
| 604036-03 | GRATE TYPE 8  |
| 606001-08 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER                         |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL  |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS                            |
| 631031-18 | TRAFFIC BARRIER TERMINAL, TYPE 6  |
| 664001-02 | CHAIN LINK FENCE  |
| 665001-02 | WOVEN WIRE FENCE  |
| 666001-01 | RIGHT OF WAY MARKERS  |
| 701001-02 | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY   |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE                              |
| 701011-04 | OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY  |
| 701101-05 | OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE                           |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS GREATER THEN 45 MPH                        |
| 701321-18 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER                                      |
| 701326-04 | LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH                          |
| 701901-08 | TRAFFIC CONTROL DEVICES   |
| 704001-08 | TEMPORARY CONCRETE BARRIER  |
| 720001-01 | SIGN PANEL MOUNTING DETAILS   |
| 720006-04 | SIGN PANEL ERECTION DETAILS   |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS  |
| 725001-01 | OBJECT AND TERMINAL MARKERS   |
| 729001-01 | APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)                         |
| 780001-05 | TYPICAL PAVEMENT MARKINGS   |
| 782001-01 | CURB REFLECTORS   |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                                 |
| BLR22-7   | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES - CONSTRUCTION ON RURAL LOCAL HIGHWAYS |

APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

|                                   |                                 |
|-----------------------------------|---------------------------------|
| TEMPORARY SEEDING                 | 100 LBS/ACRE ( 2 APP)           |
| RIPRAP                            | 1.50 TON/CU YD                  |
| ROCK FILL - EMBANKMENT            | 1.89 TON/CU YD                  |
| AGGREGATE DITCH CHECK             | 2.07 TON/CU YD                  |
| AGGREGATE FOR TEMPORARY ACCESS    | 2.03 TON/CU YD                  |
| BITUMINOUS MATERIALS (PRIME COAT) | 0.25 LBS/SO FT (ON AGG)         |
| BITUMINOUS MATERIALS (TACK COAT)  | 0.025 LBS/SO FT (BETWEEN LIFTS) |

HMA MIX DESIGN

| MIX DESIGN INFORMATION<br>(REAS BRIDGE ROAD) |                   |                   |                   |
|--|-------------------|-------------------|-------------------|
| MIXTURE USE(S)                               | • 9" HMA BINDER   | • 2" HMA SURFACE  | 6" HMA SHOULDERS  |
| PG   | PG 64-22          | PG 64-22          | PG 64-22          |
| DESIGN AIR VOIDS                             | 4.0 % @ Ndes = 70 | 4.0 % @ Ndes = 70 | 4.0 % @ Ndes = 30 |
| MIX COMP (GRADATION)                         | IL 19.0           | IL 9.5            | IL 19.0L          |
| FRICTION AGGREGATE                           | MIX C             | MIX C             |                   |

• PAID FOR AS HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"

| MIX DESIGN INFORMATION<br>(SANGAMON ROAD) |                   |                   |
|---|-------------------|-------------------|
| MIXTURE USE(S)                            | • 4" HMA BINDER   | • 2" HMA SURFACE  |
| PG  | PG 64-22          | PG 64-22          |
| DESIGN AIR VOIDS                          | 4.0 % @ Ndes = 70 | 4.0 % @ Ndes = 70 |
| MIX COMP (GRADATION)                      | IL 19.0           | IL 9.5            |
| FRICTION AGGREGATE                        | MIX C             | MIX C             |

• PAID FOR AS HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6"

5 FILES

|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |



DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**HIGHWAY STANDARDS & APPLICATION RATES  
CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 3         |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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| CODE NO.   | ITEM  | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|------------|---|-------|----------------|-------------------|------------------------|------------------------|
|            |   |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|            |   |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| * 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER)       | UNIT  | 203            | 203               |                        |                        |
| * 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER)       | UNIT  | 244            | 244               |                        |                        |
| * 20100500 | TREE REMOVAL, ACRES                         | ACRE  | 1.23           | 1.23              |                        |                        |
| 20200100   | EARTH EXCAVATION                            | CU YD | 14413          | 14413             |                        |                        |
| 20201200   | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 18932          | 18932             |                        |                        |
| 20400800   | FURNISHED EXCAVATION                        | CU YD | 63402          | 63402             |                        |                        |
| * 25100630 | EROSION CONTROL BLANKET                     | SO YD | 25208          | 25208             |                        |                        |
| 28000250   | TEMPORARY EROSION CONTROL SEEDING           | POUND | 500            | 500               |                        |                        |
| 28000315   | AGGREGATE DITCH CHECKS                      | TON   | 207            | 207               |                        |                        |
| 28000400   | PERIMETER EROSION BARRIER                   | FOOT  | 2248           | 2248              |                        |                        |
| 28000500   | INLET AND PIPE PROTECTION                   | EACH  | 47             | 47                |                        |                        |
| 28100207   | STONE RIPRAP, CLASS A4                      | TON   | 12562          | 12562             |                        |                        |
| 28200200   | FILTER FABRIC                               | SQ YD | 13704          | 13704             |                        |                        |
| 31100910   | SUBBASE GRANULAR MATERIAL, TYPE A 12"       | SQ YD | 20501          | 20501             |                        |                        |

\* SPECIALTY ITEMS

|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
| FLOT SCALE = | DRAWN -    | REVISED - |
| FLOT DATE =  | CHECKED -  | REVISED - |
|              | DATE -     | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHLAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

|                                 |                         |              |
|---------------------------------|-------------------------|--------------|
| <b>SUMMARY OF QUANTITIES</b>    |                         |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |                         |              |
| SCALE:                          | SHEET NO. 1 OF 9 SHEETS | STA. TO STA. |


|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 4         |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|----------|--|-------|----------------|-------------------|------------------------|------------------------|
|          |  |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|          |  |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 35101600 | AGGREGATE BASE COURSE, TYPE B 4"                   | SO YD | 2156           | 2156              |                        |                        |
| 35101800 | AGGREGATE BASE COURSE, TYPE B 6"                   | SO YD | 1187           | 1187              |                        |                        |
| 40201000 | AGGREGATE FOR TEMPORARY ACCESS                     | TON   | 480            | 480               |                        |                        |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT)                  | POUND | 17343          | 17343             |                        |                        |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)                   | POUND | 2762           | 2762              |                        |                        |
| 40701801 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"          | SO YD | 2092           | 2092              |                        |                        |
| 40701901 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"         | SO YD | 4997           | 4997              |                        |                        |
| 40800025 | BITUMINOUS MATERIALS (PRIME COAT)                  | POUND | 2671           | 2671              |                        |                        |
| 42000060 | WELDED WIRE REINFORCEMENT                          | SO YD | 13282          | 13282             |                        |                        |
| 42000080 | PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB  | SO YD | 440            | 440               |                        |                        |
| 42000401 | PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)     | SO YD | 13282          | 13282             |                        |                        |
| 42001300 | PROTECTIVE COAT                                    | SO YD | 15017          | 15017             |                        |                        |
| 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | SO YD | 325            | 325               |                        |                        |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH           | SO FT | 12805          | 12805             |                        |                        |

\* SPECIALTY ITEMS


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|              |            |           |   |  |   |  |  |                         |                           |         |                    |           |  |
|--------------|------------|-----------|---|--|---|--|--|-------------------------|---------------------------|---------|--------------------|-----------|--|
| USER NAME :  | DESIGNED - | REVISED - |  | DECATUR (217) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  |  | F.A.U. RTE.             | SECTION                   | COUNTY  | TOTAL SHEETS       | SHEET NO. |  |
| PLOT SCALE : | CHECKED -  | REVISED - |   |  |   |  |  | 7355                    | 12-00251-00-BR            | MACON   | 196                | 5         |  |
| PLOT DATE :  | DATE -     | REVISED - |   |  | SCALE:  |  |  | SHEET NO. 2 OF 9 SHEETS | STA.                      | TO STA. | CONTRACT NO. 95912 |           |  |
|              |            |           |   |  |   |  |  |                         | ILLINOIS FED. AID PROJECT |         |                    |           |  |

| CODE NO. | ITEM                                 | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|----------|--------------------------------------|-------|----------------|-------------------|------------------------|------------------------|
|          |                                      |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|          |                                      |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 42400800 | DETECTABLE WARNINGS                  | SO FT | 40             | 40                |                        |                        |
| 44000100 | PAVEMENT REMOVAL                     | SO YD | 7396           | 7396              |                        |                        |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL            | SO YD | 1391           | 1391              |                        |                        |
| 48100500 | AGGREGATE SHOULDERS, TYPE A 6"       | SO YD | 1119           | 1119              |                        |                        |
| 48101500 | AGGREGATE SHOULDERS, TYPE B 6"       | SO YD | 375            | 375               |                        |                        |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8"        | SO YD | 1490           | 1490              |                        |                        |
| 50100300 | REMOVAL OF EXISTING STRUCTURES NO. 1 | EACH  | 1              |                   |                        | 1                      |
| 50100400 | REMOVAL OF EXISTING STRUCTURES NO. 2 | EACH  | 1              |                   | 1                      |                        |
| 50105220 | PIPE CULVERT REMOVAL                 | FOOT  | 642            | 642               |                        |                        |
| 50200100 | STRUCTURE EXCAVATION                 | CU YD | 262            |                   | 109                    | 153                    |
| 50200300 | COFFERDAM EXCAVATION                 | CU YD | 1305           |                   | 832                    | 473                    |
| 50201121 | COFFERDAM (TYPE 2) (LOCATION - 1)    | EACH  | 1              |                   |                        | 1                      |
| 50201122 | COFFERDAM (TYPE 2) (LOCATION - 2)    | EACH  | 1              |                   | 1                      |                        |
| 50201123 | COFFERDAM (TYPE 2) (LOCATION - 3)    | EACH  | 1              |                   | 1                      |                        |

\* SPECIALTY ITEMS


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|              |            |           |   |  |   |  |  |                    |                           |        |              |           |
|--------------|------------|-----------|---|--|---|--|--|--------------------|---------------------------|--------|--------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |  | DECATUR (217) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  |  | F.A.U. RTE.        | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| FLDT SCALE = | CHECKED -  | REVISED - |   |  |   |  |  | 7355               | 12-00251-00-BR            | MACDN  | 196          | 6         |
| PLDT DATE =  | DATE -     | REVISED - |   |  | SCALE: SHEET NO. 3 OF 9 SHEETS STA. TO STA.                     |  |  | CONTRACT NO. 95912 |                           |        |              |           |
|              |            |           |   |  |   |  |  |                    | ILLINOIS FED. AID PROJECT |        |              |           |

| CODE NO.   | ITEM                                     | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|------------|--|-------|----------------|-------------------|------------------------|------------------------|
|            |  |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|            |  |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 50300225   | CONCRETE STRUCTURES                      | CU YD | 921.4          |                   | 554.4                  | 367                    |
| 50300255   | CONCRETE SUPERSTRUCTURE                  | CU YD | 1623.7         |                   | 948.7                  | 675                    |
| 50300260   | BRIDGE DECK GROOVING                     | SO YD | 4026           |                   | 2316                   | 1710                   |
| 50300265   | SEAL COAT CONCRETE                       | CU YD | 557            |                   | 356                    | 201                    |
| 50300300   | PROTECTIVE COAT                          | SO YD | 6525           |                   | 3785                   | 2740                   |
| 50301350   | CONCRETE SUPERSTRUCTURE (APPROACH SLAB)  | CU YD | 232.8          |                   |                        | 232.8                  |
| 50500105   | FURNISHING AND ERECTING STRUCTURAL STEEL | L SUM | 1              |                   | 0.5                    | 0.5                    |
| 50500505   | STUD SHEAR CONNECTORS                    | EACH  | 15609          |                   | 9570                   | 6039                   |
| 50800205   | REINFORCEMENT BARS, EPOXY COATED         | POUND | 569220         |                   | 289990                 | 279230                 |
| 50800515   | BAR SPLICERS                             | EACH  | 3156           |                   | 1768                   | 1388                   |
| * 50901720 | BICYCLE RAILING                          | FOOT  | 651            |                   | 378                    | 273                    |
| * 50901750 | PARAPET RAILING                          | FOOT  | 651            |                   | 378                    | 273                    |
| 51201800   | FURNISHING STEEL PILES HP14X73           | FOOT  | 5900           |                   | 3290                   | 2610                   |
| 51202305   | DRIVING PILES                            | FOOT  | 5900           |                   | 3290                   | 2610                   |

\* SPECIALTY ITEMS

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|               |            |           |   |  |   |  |  |                         |                |         |                           |           |
|---------------|------------|-----------|---|--|---|--|--|-------------------------|----------------|---------|---------------------------|-----------|
| USER NAME :   | DESIGNED - | REVISED - |  | DECATUR (217) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  |  | F.A.U. RTE.             | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| PLLOT SCALE : | DRAWN -    | REVISED - |   |  |   |  |  | 7355                    | 12-00251-00-BR | MACON   | 196                       | 7         |
| PLLOT DATE :  | CHECKED -  | REVISED - |   |  |   |  |  | CONTRACT NO. 95912      |                |         |                           |           |
|               | DATE -     | REVISED - |   |  | SCALE:  |  |  | SHEET NO. 4 OF 9 SHEETS | STA.           | TO STA. | ILLINOIS FED. AID PROJECT |           |



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| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|----------|--|-------|----------------|-------------------|------------------------|------------------------|
|          |  |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|          |  |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 51203800 | TEST PILE STEEL HP14X73                        | EACH  | 7              |                   | 4                      | 3                      |
| 51500100 | NAME PLATES                                    | EACH  | 2              |                   | 1                      | 1                      |
| 52000110 | PREFORMED JOINT STRIP SEAL                     | FOOT  | 167            |                   | 167                    |                        |
| 52100520 | ANCHOR BOLTS, 1"                               | EACH  | 88             |                   | 44                     | 44                     |
| 52100530 | ANCHOR BOLTS, 1 1/4"                           | EACH  | 66             |                   | 44                     | 22                     |
| 52200020 | TEMPORARY SOIL RETENTION SYSTEM                | SO FT | 2955           |                   | 1692                   | 1263                   |
| 542A1063 | PIPE CULVERTS, CLASS A, TYPE 2 18"             | FOOT  | 140            | 140               |                        |                        |
| 542D0223 | PIPE CULVERTS, CLASS D, TYPE 1 18"             | FOOT  | 52             | 52                |                        |                        |
| 542D0229 | PIPE CULVERTS, CLASS D, TYPE 1 24"             | FOOT  | 93             | 93                |                        |                        |
| 542D1060 | PIPE CULVERTS, CLASS D, TYPE 2 15"             | FOOT  | 48             | 48                |                        |                        |
| 542D1066 | PIPE CULVERTS, CLASS D, TYPE 2 21"             | FOOT  | 90             | 90                |                        |                        |
| 542D1069 | PIPE CULVERTS, CLASS D, TYPE 2 24"             | FOOT  | 202            | 202               |                        |                        |
| 542D1099 | PIPE CULVERTS, CLASS D, TYPE 2 54"             | FOOT  | 96             | 96                |                        |                        |
| 542D0018 | PIPE CULVERTS, CLASS D, TYPE 1 18" (TEMPORARY) | FOOT  | 25             | 25                |                        |                        |


\* SPECIALTY ITEMS

|              |            |           |   |  |   |  |                         |         |         |                    |           |  |  |
|--------------|------------|-----------|---|--|---|--|-------------------------|---------|---------|--------------------|-----------|--|--|
| USER NAME =  | DESIGNED - | REVISED - |  | DECATUR (217) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  | F.A.U. RTE.             | SECTION | COUNTY  | TOTAL SHEETS       | SHEET NO. |  |  |
| DRAWN -      | REVISED -  | 7355      |   |  |   |  | 12-00251-00-BR          | MACON   | 196     | 8                  |           |  |  |
| PLOT SCALE = | CHECKED -  | REVISED - |   |  | SCALE:  |  | SHEET NO. 5 OF 9 SHEETS | STA.    | TO STA. | CONTRACT NO. 95912 |           |  |  |
| PLOT DATE =  | DATE -     | REVISED - |   |  | ILLINOIS FED. AID PROJECT                                       |  |                         |         |         |                    |           |  |  |

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| CODE NO. | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|----------|--|-------|----------------|-------------------|------------------------|------------------------|
|          |  |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|          |  |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 54213450 | END SECTIONS 15"                                       | EACH  | 2              | 2                 |                        |                        |
| 54213453 | END SECTIONS 18"                                       | EACH  | 4              | 4                 |                        |                        |
| 54213456 | END SECTIONS 21"                                       | EACH  | 4              | 4                 |                        |                        |
| 54213459 | END SECTIONS 24"                                       | EACH  | 12             | 12                |                        |                        |
| 54213489 | END SECTIONS 54"                                       | EACH  | 2              | 2                 |                        |                        |
| 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"    | EACH  | 20             | 20                |                        |                        |
| 54213663 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"    | EACH  | 1              | 1                 |                        |                        |
| 5422D054 | PIPE CULVERTS, CLASS D, TYPE 2 54" (TEMPORARY)         | FOOT  | 120            | 120               |                        |                        |
| 550A0050 | STORM SEWERS, CLASS A, TYPE 1 12"                      | FOOT  | 1163           | 1163              |                        |                        |
| 58600101 | GRANULAR BACKFILL FOR STRUCTURES                       | CU YD | 636            |                   | 313                    | 323                    |
| 59100100 | GEOCOMPOSITE WALL DRAIN                                | SO YD | 353            |                   | 175                    | 178                    |
| 60146304 | PIPE UNDERDRAINS FOR STRUCTURES 4"                     | FOOT  | 484            |                   | 242                    | 242                    |
| 60218500 | MANHOLES, TYPE A, 4' -DIAMETER, TYPE 3 FRAME AND GRATE | EACH  | 2              | 2                 |                        |                        |
| 60235700 | INLETS, TYPE A, TYPE 3 FRAME AND GRATE                 | EACH  | 26             | 26                |                        |                        |


\* SPECIALTY ITEMS

|              |            |           |  |   |   |  |  |                         |                |         |                    |           |  |
|--------------|------------|-----------|--|---|---|--|--|-------------------------|----------------|---------|--------------------|-----------|--|
| USER NAME =  | DESIGNED - | REVISED - |  <b>CHASTAIN &amp; ASSOCIATES LLC</b><br>CONSULTING ENGINEERS | DECATUR (217) 422-8544<br>SCHLAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  |  | F.A.U. RTE.             | SECTION        | COUNTY  | TOTAL SHEETS       | SHEET NO. |  |
| DRAWN -      | CHECKED -  | REVISED - |  |   |   |  |  | 7355                    | 12-00251-00-BR | MACON   | 196                | 9         |  |
| PLOT SCALE = | DATE -     | REVISED - |  |   | SCALE:  |  |  | SHEET NO. 6 OF 9 SHEETS | STA.           | TO STA. | CONTRACT NO. 95912 |           |  |
| PLOT DATE =  | DATE -     | REVISED - |  |   | [ILLINOIS] FED. AID PROJECT                                     |  |  |                         |                |         |                    |           |  |

| CODE NO.   | ITEM  | UNIT   | TOTAL QUANTITY | CONSTRUCTION CODE |                |                |
|------------|---|--------|----------------|-------------------|----------------|----------------|
|            |   |        |                | ROADWAY           | BRIDGE         | BRIDGE         |
|            |   |        |                | 0003              | 0010           | 0010           |
|            |   |        |                | RURAL             | S. N. 058-3408 | S. N. 058-3409 |
| 60605000   | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24     | FOOT   | 3890           | 3890              |                |                |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS      | FOOT   | 1117           | 1117              |                |                |
| * 63100085 | TRAFFIC BARRIER TERMINAL, TYPE 6                      | EACH   | 3              | 3                 |                |                |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT    | EACH   | 3              | 3                 |                |                |
| 63200310   | GUARDRAIL REMOVAL                                     | FOOT   | 2757           | 2757              |                |                |
| * 66400105 | CHAIN LINK FENCE, 4'                                  | FOOT   | 1383           | 1383              |                |                |
| * 66500105 | WOVEN WIRE FENCE, 4'                                  | FOOT   | 583            | 583               |                |                |
| 66600105   | FURNISHING AND ERECTING RIGHT OF WAY MARKERS          | EACH   | 14             | 14                |                |                |
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A                       | CAL MO | 24             | 24                |                |                |
| 67100100   | MOBILIZATION  | L SUM  | 1              | 1                 |                |                |
| 70106700   | TEMPORARY RUMBLE STRIPS                               | EACH   | 12             | 12                |                |                |
| 70300150   | SHORT TERM PAVEMENT MARKING REMOVAL                   | SO FT  | 8723           | 8723              |                |                |
| 70306120   | TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE  | FOOT   | 25767          | 25767             |                |                |
| 70306210   | TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE III TAPE | FOOT   | 67             | 67                |                |                |

\* SPECIALTY ITEMS

SFILES


|              |                |           |   |  |   |  |  |                           |                |        |              |           |
|--------------|----------------|-----------|---|--|---|--|--|---------------------------|----------------|--------|--------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |  | DECATUR (317) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  |  | F.A.J. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - RLK  | CHECKED - JMB  | REVISED - |   |  |   |  |  | 7355                      | 12-00251-00-BR | MACON  | 196          | 10        |
| PLOT SCALE = | DATE -         | REVISED - |   |  | SCALE: SHEET NO. 7 OF 9 SHEETS STA. TO STA.                     |  |  | CONTRACT NO. 95912        |                |        |              |           |
| PLOT DATE =  |                |           |   |  |   |  |  | ILLINOIS FED. AID PROJECT |                |        |              |           |



| CODE NO.   | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|------------|--|-------|----------------|-------------------|------------------------|------------------------|
|            |  |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|            |  |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| 70400100   | TEMPORARY CONCRETE BARRIER                                     | FOOT  | 2262.5         | 2262.5            |                        |                        |
| 70600240   | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2 | EACH  | 2              | 2                 |                        |                        |
| * 72000100 | SIGN PANEL - TYPE 1  | SO FT | 109.7          | 109.7             |                        |                        |
| * 72501000 | TERMINAL MARKER - DIRECT APPLIED                               | EACH  | 3              | 3                 |                        |                        |
| * 72900100 | METAL POST - TYPE A  | FOOT  | 262.5          | 262.5             |                        |                        |
| * 78008200 | POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS         | SO FT | 249            | 249               |                        |                        |
| * 78008210 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4"                     | FOOT  | 17303          | 17303             |                        |                        |
| * 78008230 | POLYUREA PAVEMENT MARKING TYPE I - LINE 6"                     | FOOT  | 54             | 54                |                        |                        |
| * 78008250 | POLYUREA PAVEMENT MARKING TYPE I - LINE 12"                    | FOOT  | 273            | 273               |                        |                        |
| * 78008270 | POLYUREA PAVEMENT MARKING TYPE I - LINE 24"                    | FOOT  | 27             | 27                |                        |                        |
| * 78200005 | GUARDRAIL REFLECTORS, TYPE A                                   | EACH  | 16             | 16                |                        |                        |
| * 78200010 | BARRIER WALL REFLECTORS, TYPE B                                | EACH  | 19             | 19                |                        |                        |
| * 78200011 | BARRIER WALL REFLECTORS, TYPE C                                | EACH  | 183            | 183               |                        |                        |
| X2010400   | STUMP REMOVAL ONLY   | UNIT  | 64             | 64                |                        |                        |

\* SPECIALTY ITEMS


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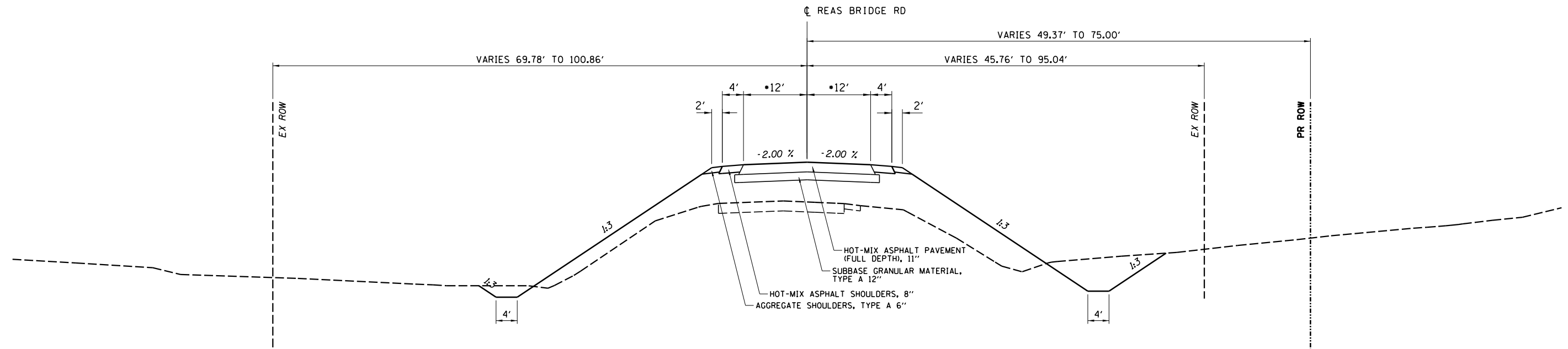
|              |                |           |   |   |              |                           |         |        |              |           |
|--------------|----------------|-----------|---|---|--------------|---------------------------|---------|--------|--------------|-----------|
| USER NAME :  | DESIGNED - TES | REVISED - |  <b>CHASTAIN &amp; ASSOCIATES LLC</b><br>CONSULTING ENGINEERS<br>DECATUR (217) 422-8544<br>SCHAMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |              | F.A.U. RTE.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - RLK  | REVISED -      | 7355      |   |   |              | 12-00251-0D-BR            | MACON   | 196    | 11           |           |
| FL0T SCALE : | CHECKED - JMB  | REVISED - |   |   |              | CONTRACT NO. 95912        |         |        |              |           |
| FL0T DATE :  | DATE -         | REVISED - |   |   |              | ILLINOIS FED. AID PROJECT |         |        |              |           |
|              |                |           | SCALE:  | SHEET NO. 8 OF 9 SHEETS   | STA. TO STA. |                           |         |        |              |           |

| CODE NO. | ITEM  | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |                        |                        |
|----------|---|-------|----------------|-------------------|------------------------|------------------------|
|          |   |       |                | ROADWAY           | BRIDGE                 | BRIDGE                 |
|          |   |       |                | 0003<br>RURAL     | 0010<br>S. N. 058-3408 | 0010<br>S. N. 058-3409 |
| X2501000 | SEEDING, CLASS 2 (SPECIAL)                      | ACRE  | 6              | 6                 |                        |                        |
| X4400110 | TEMPORARY PAVEMENT REMOVAL                      | SQ YD | 3317           | 3317              |                        |                        |
| X5030305 | CONCRETE WEARING SURFACE, 5"                    | SQ YD | 558            |                   | 558                    |                        |
| X5040100 | PRECAST BRIDGE APPROACH SLAB                    | SQ FT | 4800           |                   | 4800                   |                        |
| X6020050 | INLETS, TYPE B, SPECIAL, TYPE B FRAME AND GRATE | EACH  | 2              | 2                 |                        |                        |
| X6310214 | TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)      | EACH  | 2              | 2                 |                        |                        |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)       | L SUM | 1              | 1                 |                        |                        |
| XX006520 | AGGREGATE DRIVEWAY, 6"                          | SQ YD | 556            | 556               |                        |                        |
| Z0004510 | HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"           | SQ YD | 1187           | 1187              |                        |                        |
| Z0004638 | PAVEMENT BREAKING                               | SQ YD | 3140           | 3140              |                        |                        |
| Z0013798 | CONSTRUCTION LAYOUT                             | L SUM | 1              | 1                 |                        |                        |
| Z0018004 | DRAINAGE SCUPPERS, DS-12                        | EACH  | 26             |                   | 14                     | 12                     |
| Z0022800 | FENCE REMOVAL                                   | FOOT  | 648            | 648               |                        |                        |
| Z0054515 | ROCK FILL - EMBANKMENT                          | TON   | 90225          | 90225             |                        |                        |
| Z0062456 | TEMPORARY PAVEMENT                              | SQ YD | 1310           | 1310              |                        |                        |

\* SPECIALTY ITEMS

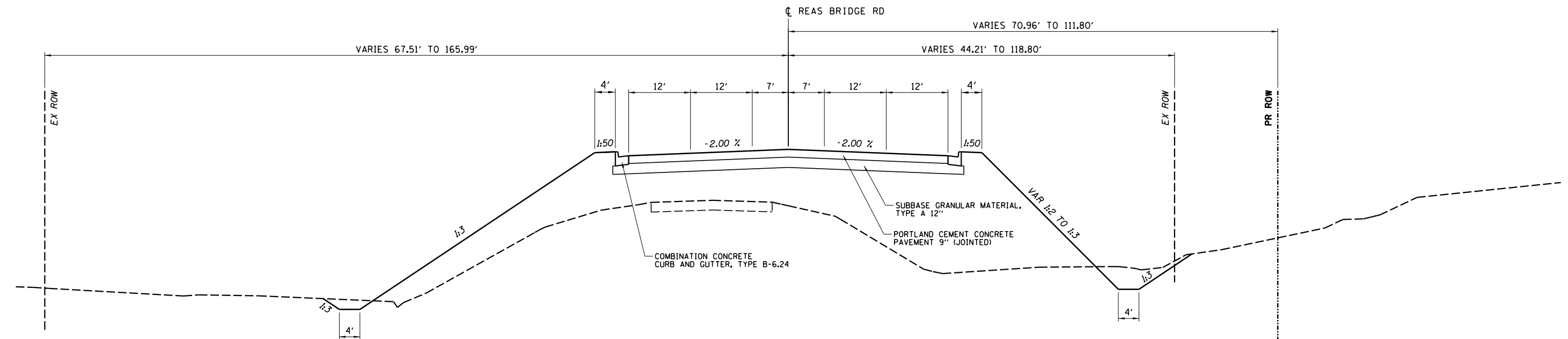
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|              |                |           |   |   |   |  |                    |                         |        |              |                           |
|--------------|----------------|-----------|---|---|---|--|--------------------|-------------------------|--------|--------------|---------------------------|
| USER NAME =  | DESIGNED - TES | REVISED - |  | DECATUR (217) 422-8544<br>SCHAMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>SUMMARY OF QUANTITIES</b><br><b>CH 24 (REAS BRIDGE ROAD)</b> |  | F.A.U. RTE.:       | SECTION                 | COUNTY | TOTAL SHEETS | SHEET NO.                 |
| DRAWN - RLK  | REVISED -      | 7355      |   |   |   |  | 12-00251-00-BR     | MACDN                   | 196    | 12           |                           |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |   |   |   |  | CONTRACT NO. 95912 |                         |        |              |                           |
| PLOT DATE =  | DATE -         | REVISED - |   |   |   |  | SCALE:             | SHEET NO. 9 OF 9 SHEETS | STA.   | TO STA.      | ILLINOIS FED. AID PROJECT |



**REAS BRIDGE ROAD**

STA 16+50.00 TO STA 26+00.33  
 STA 52+00.00 TO STA 59+25.00  
 • VARIES 12' TO 19' FROM STA 22+85.33 TO 26+00.33  
 AND 12' TO 19.5' FROM STA 52+00 TO 55+41.67



**REAS BRIDGE ROAD**

STA 26+00.33 TO STA 31+00.00  
 STA 46+86.67 TO STA 52+00.00

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (317) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**PROPOSED TYPICAL SECTIONS  
 CH 24 (REAS BRIDGE ROAD)**

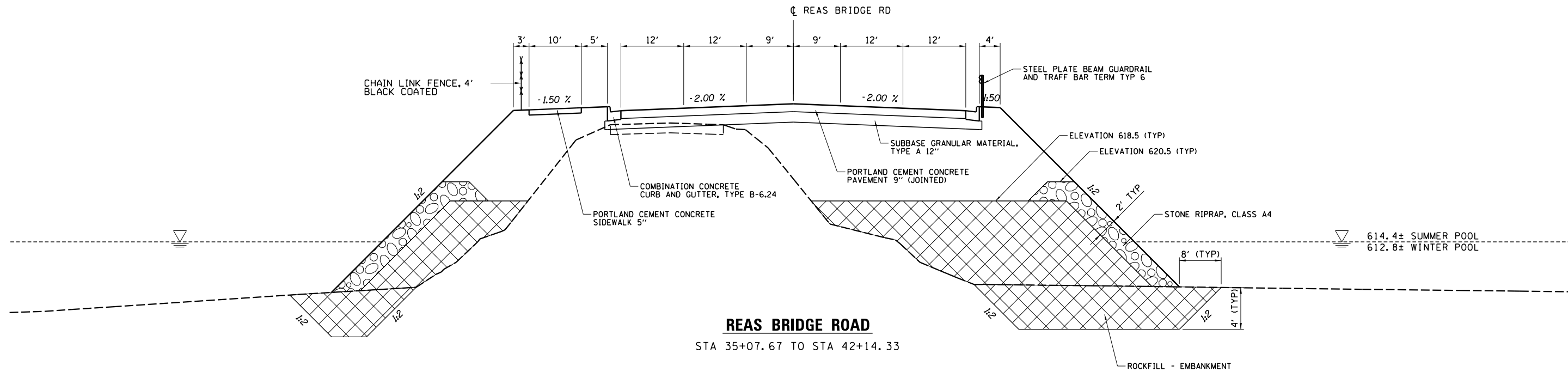
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 13        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

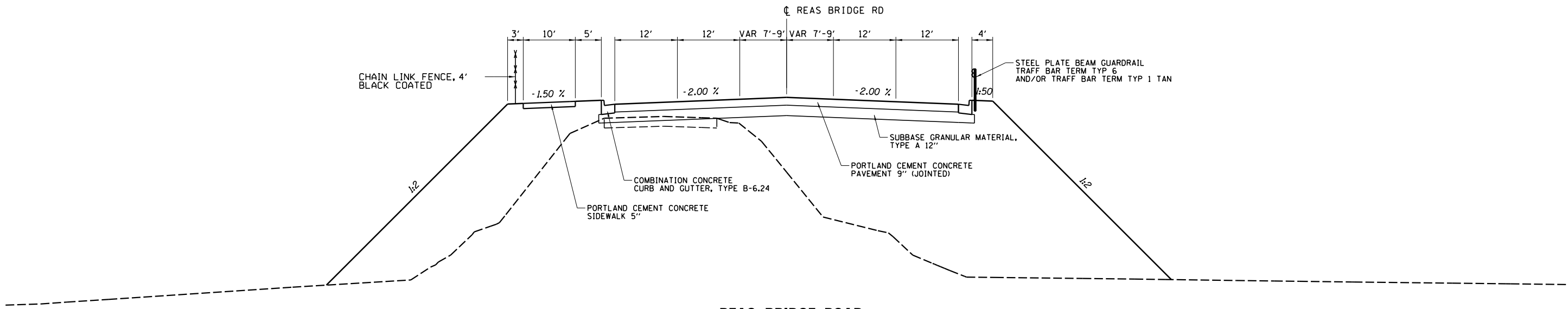
ILLINOIS FED. AID PROJECT



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**REAS BRIDGE ROAD**  
STA 35+07.67 TO STA 42+14.33



**REAS BRIDGE ROAD**  
STA 31+00.00 TO STA 32+30.33  
STA 45+96.67 TO STA 46+86.67

|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |

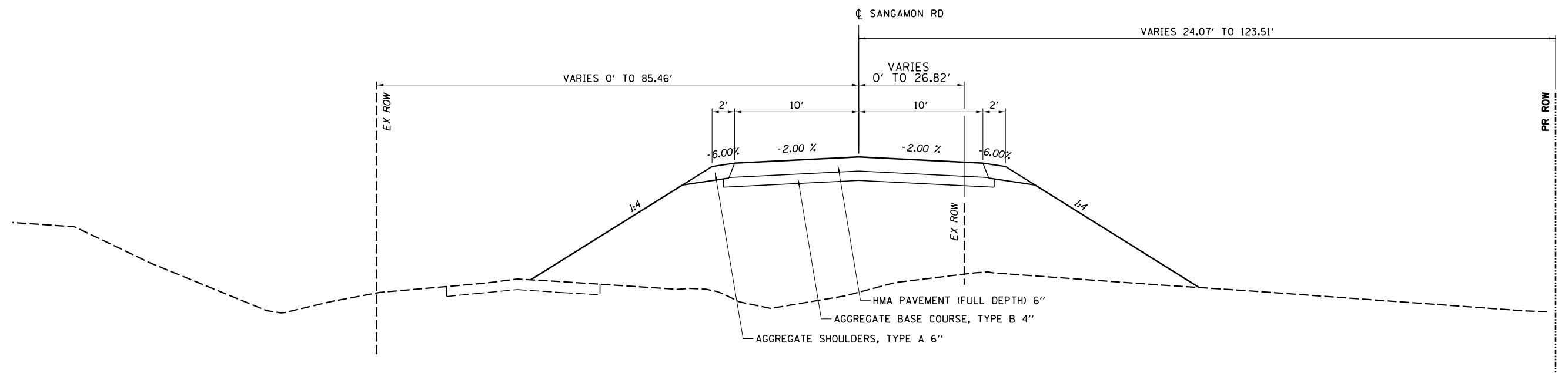
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

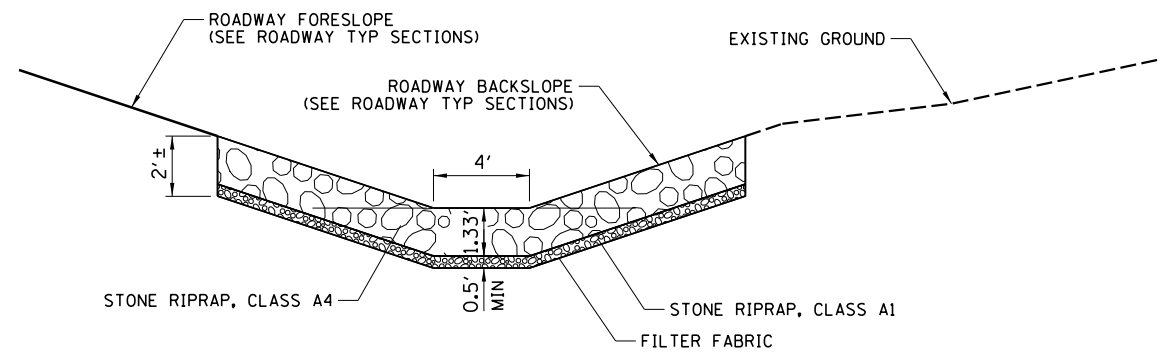
**PROPOSED TYPICAL SECTIONS**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 14        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**SANGAMON ROAD**  
 STA 73+50.00 TO STA 79+69.33



**DITCH LINING DETAIL**

RIGHT DITCH SHOWN  
 LEFT DITCH OPPOSITE HAND

|                |                |
|----------------|----------------|
| LEFT DITCH     | RIGHT DITCH    |
| 20+75 TO 21+50 | 19+50 TO 22+00 |
| 26+00 TO 28+00 | 46+50 TO 48+00 |
| 46+50 TO 50+00 |                |

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PROPOSED TYPICAL SECTIONS**  
**CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 15        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

TREE REMOVAL, UNIT

| STATION          | OFFSET (FT) | 20100110         | 20100210          | X2010400           |
|------------------|-------------|------------------|-------------------|--------------------|
|                  |             | 6 - 15 UNIT DIA. | OVER 15 UNIT DIA. | STUMP REMOVAL ONLY |
| REAS BRIDGE ROAD |             |                  |                   |                    |
| 20+48 to 22+05   | RT          |                  |                   |                    |
| 20+88 to 29+44   | LT          |                  |                   |                    |
| 22+74.74         | 106.82      |                  | 22                |                    |
| 23+22 to 24+84   | RT          |                  |                   |                    |
| 28+86.82         | 25.33       | 8                |                   |                    |
| 29+02.09         | 67.15       |                  | 24                |                    |
| 29+22.02         | 20.28       | 15               |                   |                    |
| 29+22.58         | 22.58       | 12               |                   |                    |
| 29+26.02         | 32.55       | 10               |                   |                    |
| 29+28.39         | 36.22       |                  | 18                |                    |
| 29+36.04         | 46.95       |                  | 18                |                    |
| 29+38.87         | 46.66       | 12               |                   |                    |
| 29+63.69         | 24.26       | 14               |                   |                    |
| 31+62.74         | 16.97       |                  | 40                |                    |
| 37+03.76         | 10.67       |                  | 16                |                    |
| 39+40.49         | 12.49       |                  | 20                |                    |
| 40+11.           | -56.55      |                  | 16                |                    |
| 41+09.84         | 7.18        |                  | 16                |                    |
| 46+63.69         | -83.02      | 6                |                   |                    |
| 46+64.69         | -83.02      | 6                |                   |                    |
| 46+65.69         | -83.02      | 6                |                   |                    |
| 47+23.18         | -77.69      | 6                |                   |                    |
| 47+24.18         | -77.69      | 6                |                   |                    |
| 47+25.18         | -77.69      | 6                |                   |                    |
| 45+85 to 51+29   | RT          |                  |                   |                    |
| 51+19 to 52+27   | RT          |                  |                   |                    |
| 52+13.8          | 15.2        | 12               |                   |                    |
| 52+75.6          | 43.64       | 14               |                   |                    |
| 52+92.6          | 24.42       | 12               |                   |                    |
| 53+02.11         | 30.91       | 6                |                   |                    |
| 53+63.91         | 34.43       | 12               |                   |                    |
| 54+79.07         | 46.54       | 8                |                   |                    |
| SANGAMON ROAD    |             |                  |                   |                    |
| 75+90.88         | -5.25       | 10               |                   |                    |
| 76+09.25         | -14.3       | 10               |                   |                    |
| 76+35.45         | -23.7       | 12               |                   |                    |
| 76+69.34         | -40.08      |                  | 18                |                    |
| 77+82.81         | -75.75      |                  |                   | 18                 |
| 77+86.84         | 5.88        |                  | 16                |                    |
| 78+11.41         | -44.85      |                  |                   | 30                 |
| 78+17.17         | -42.31      |                  |                   | 16                 |
| TOTAL            |             | 203              | 224               | 64                 |

TREE REMOVAL, ACRES

| STATION | STATION | OFFSET | 20100500<br>TREE REMOVAL ACRES |
|---------|---------|--------|--------------------------------|
| 20+48.  | 22+05.  | RT     | 0.07                           |
| 20+88.  | 29+44.  | LT     | 0.36                           |
| 23+22.  | 24+84.  | RT     | 0.02                           |
| 45+85.  | 51+29.  | RT     | 0.70                           |
| 51+19.  | 52+27.  | RT     | 0.08                           |
| TOTAL   |         |        | 1.23                           |

DITCH CHECKS

| STATION | OFFSET | 28000315<br>AGGREGATE DITCH CHECK CU FT |
|---------|--------|---|
| 26+43.5 | LT     | 18.8                                    |
| 26+87.0 | LT     | 18.8                                    |
| 27+30.5 | LT     | 18.8                                    |
| 48+50.0 | LT     | 18.8                                    |
| 48+86.7 | LT     | 18.8                                    |
| 49+23.3 | LT     | 18.8                                    |
| 49+60.0 | LT     | 18.8                                    |
| 46+88.0 | RT     | 18.8                                    |
| 47+16.0 | RT     | 18.8                                    |
| 47+44.0 | RT     | 18.8                                    |
| 47+72.0 | RT     | 18.8                                    |
| TOTAL   |        | 207                                     |

MISCELLANEOUS REMOVAL

| STATION          | OFFSET    | STATION  | OFFSET    | TYPE      | 44000100         | Z0004638          | 44000200                  | 50105220             | 63200310          | Z0022800      | X4400110                   |
|------------------|-----------|----------|-----------|-----------|------------------|-------------------|---------------------------|----------------------|-------------------|---------------|----------------------------|
|                  |           |          |           |           | PAVEMENT REMOVAL | PAVEMENT BREAKING | DRIVEWAY PAVEMENT REMOVAL | PIPE CULVERT REMOVAL | GUARDRAIL REMOVAL | FENCE REMOVAL | TEMPORARY PAVEMENT REMOVAL |
|                  |           |          |           |           | SO YD            | SO YD             | SO YD                     | FOOT                 | FOOT              | FOOT          | SO YD                      |
| REAS BRIDGE ROAD |           |          |           |           |                  |                   |                           |                      |                   |               |                            |
| 16+50.00         |           | 20+65.00 |           |           | 1276             |                   |                           |                      |                   |               |                            |
| 20+39.49         | 34.75 LT  | 20+71.88 | 35.26 LT  | 18" CMP   |                  |                   |                           | 32                   |                   |               |                            |
| 20+65.00         |           | 23+25.00 |           |           | 687              |                   |                           |                      |                   |               |                            |
| 21+26.74         | 57.19 LT  | 22+34.23 | 58.72 LT  |           |                  |                   |                           |                      |                   | 108           |                            |
| 22+43.31         | 39.99 RT  | 22+69.87 | 38.63 RT  | 18" CMP   |                  |                   |                           | 27                   |                   |               |                            |
| 22+55.80         | RT        | -        | -         | BIT       |                  |                   | 115                       |                      |                   |               |                            |
| 22+90.13         | 38.40 RT  | 23+20.63 | 39.14 RT  | 18" CMP   |                  |                   |                           | 31                   |                   |               |                            |
| 23+04.30         | RT        | -        | -         | BIT       |                  |                   | 191                       |                      |                   |               |                            |
| 24+91.66         | 35.71 RT  | 25+21.97 | 33.08 RT  | 30" CMP   |                  |                   |                           | 30                   |                   |               |                            |
| 26+47.36         | 101.57 RT | 27+54.95 | 92.45 RT  | 12" CMP   |                  |                   |                           | 108                  |                   |               |                            |
| 27+32.59         | 7.99 RT   | 32+84.91 | 9.15 LT   | SPBG      |                  |                   |                           |                      | 552               |               |                            |
| 27+50.00         |           | 32+85.70 |           |           |                  | 1377              |                           |                      |                   |               |                            |
| 28+39.26         | 69.42 RT  | 28+59.34 | 71.78 RT  | 12" PVC   |                  |                   |                           | 20                   |                   |               |                            |
| 28+52.12         | 87.07 LT  | 28+92.61 | 81.70 LT  |           |                  |                   |                           |                      |                   | 41            |                            |
| 28+92.61         | 81.70 LT  | 28+95.85 | 85.59 LT  |           |                  |                   |                           |                      |                   | 5             |                            |
| 28+94.10         | 67.94 LT  | 29+30.83 | 17.52 RT  | 54" CMP   |                  |                   |                           | 93                   |                   |               |                            |
| 30+05.49         | 39.41 LT  | 32+85.75 | 35.65 LT  | SPBG      |                  |                   |                           |                      | 280               |               |                            |
| 34+51.88         | 37.99 LT  | 42+62.04 | 37.40 LT  | SPBG      |                  |                   |                           |                      | 810               |               |                            |
| 34+52.25         |           | 39+75.00 |           |           | 1245             |                   |                           |                      |                   |               |                            |
| 34+52.49         | 12.18 LT  | 42+62.01 | 10.81 LT  | SPBG      |                  |                   |                           |                      | 810               |               |                            |
| 39+75.00         |           | 42+61.90 |           |           |                  | 675               |                           |                      |                   |               |                            |
| 45+62.28         | 36.24 LT  | 47+51.87 | 42.70 LT  | SPBG      |                  |                   |                           |                      | 190               |               |                            |
| 45+62.31         | 9.99 LT   | 46+76.73 | 2.37 LT   | SPBG      |                  |                   |                           |                      | 115               |               |                            |
| 46+75.00         |           | 48+25.00 |           |           |                  | 401               |                           |                      |                   |               |                            |
| 48+25.00         |           | 59+25.00 |           |           | 2941             |                   |                           |                      |                   |               |                            |
| 49+50.00         | RT        | 60+85.00 | RT        |           |                  |                   |                           |                      |                   |               | 3317                       |
| 50+28.00         | 11.00 RT  | 51+19.00 | 11.00 RT  | 18" CMP   |                  |                   |                           | 91                   |                   |               |                            |
| 50+71.10         | 51.43 LT  | 51+16.43 | 54.08 LT  | 24" CMP   |                  |                   |                           | 45                   |                   |               |                            |
| 50+87.80         | LT        |          |           | BIT       |                  |                   | 118                       |                      |                   |               |                            |
| 51+10.67         | RT        |          |           | BIT       |                  |                   | 30                        |                      |                   |               |                            |
| 52+19.63         | 15.65 RT  | 52+45.08 | 16.58 RT  | 18" CMP   |                  |                   |                           | 26                   |                   |               |                            |
| 52+34.70         | RT        |          |           | BIT       |                  |                   | 132                       |                      |                   |               |                            |
| 54+10.66         | 17.49 RT  | 54+43.80 | 17.08 RT  | 18" CMP   |                  |                   |                           | 33                   |                   |               |                            |
| 54+20.60         | LT        |          |           | BIT       |                  |                   | 156                       |                      |                   |               |                            |
| 54+26.10         | RT        |          |           | BIT/CONC  |                  |                   | 130                       |                      |                   |               |                            |
| 55+79.40         | RT        |          |           | BIT       |                  |                   | 114                       |                      |                   |               |                            |
| 56+80.40         | RT        |          |           | BIT       |                  |                   | 100                       |                      |                   |               |                            |
| 57+60.40         | RT        |          |           | BIT       |                  |                   | 88                        |                      |                   |               |                            |
| 58+25.50         | LT        |          |           | BIT/CONC  |                  |                   | 147                       |                      |                   |               |                            |
| 58+72.40         | RT        |          |           | BIT       |                  |                   | 38                        |                      |                   |               |                            |
| 58+95.00         | RT        |          |           | BIT       |                  |                   | 32                        |                      |                   |               |                            |
| SANGAMON ROAD    |           |          |           |           |                  |                   |                           |                      |                   |               |                            |
| 73+50.00         |           | 79+70.79 |           |           | 1934             |                   |                           |                      |                   |               |                            |
| 74+70.14         | 21.65 RT  | 77+29.90 | 85.17 LT  |           |                  |                   |                           |                      |                   | 282           |                            |
| 76+94.27         | 79.43 LT  | 76+67.99 | 125.42 LT | 2-18" CMP |                  |                   |                           | 106                  |                   |               |                            |
| 77+29.90         | 85.17 LT  | 77+91.53 | 68.78 LT  |           |                  |                   |                           |                      |                   | 55            |                            |
| 77+91.53         | 68.78 LT  | 78+55.14 | 74.83 RT  |           |                  |                   |                           |                      |                   | 157           |                            |
| TOTAL            |           |          |           |           | 7,396            | 3,140             | 1,391                     | 642                  | 2,757             | 648           | 3,317                      |

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
| PLOT SCALE = | DRAWN -    | REVISED - |
| PLOT DATE =  | CHECKED -  | REVISED - |
|              | DATE -     | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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ROCKFORD (815) 489-0050  
184-001397

SCHEDULE OF QUANTITIES  
CH 24 (REAS BRIDGE ROAD)

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

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 16        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



GUARDRAIL

| STATION  | STATION  | OFFSET | 63000001                                       | 63100085                         | 63100167                                     | 72501000                       | 78200005                    | 78200010                       | X6310214                               |
|----------|----------|--------|--|----------------------------------|--|--------------------------------|-----------------------------|--------------------------------|--|
|          |          |        | STEEL PLATE BEAM GUARD RAIL TYPE A, 6 FT POSTS | TRAFFIC BARRIER TERMINAL, TYPE 6 | TRAFFIC BARRIER TERMINAL, TY 1 (SPL) TANGENT | TERMINAL MARKER DIRECT APPLIED | GUARDRAIL REFLECTORS TYPE A | BARRIER WALL REFLECTORS TYPE B | TRAFFIC BARRIER TERMINAL, TYPE 6 (SPL) |
|          |          |        | FOOT   | EACH                             | EACH   | EACH                           | EACH                        | EACH                           | EACH                                   |
| 27+20.78 | 27+58.28 | RT     |  |                                  | 1  | 1                              |                             | 7                              |  |
| 27+20.78 | 32+46.08 | RT     | 450.0  |                                  |  |                                |                             |                                |  |
| 27+58.28 | 32+08.58 | RT     |  | 1                                |  |                                |                             |                                |  |
| 32+08.58 | 32+46.08 | RT     |  |                                  |  |                                |                             |                                |  |
| 32+46.08 | 34+91.83 | RT     |  | 1                                |  |                                |                             | 4                              |  |
| 34+91.83 | 35+29.33 | RT     |  |                                  |  |                                |                             |                                |  |
| 34+91.83 | 42+30.35 | RT     |  |                                  |  |                                | 5                           |                                |  |
| 35+29.33 | 41+92.85 | RT     | 667.0  |                                  |  |                                |                             |                                |  |
| 41+92.85 | 42+30.35 | RT     |  | 1                                |  |                                |                             |                                |  |
| 42+30.35 | 45+81.66 | RT     |  |                                  |  |                                |                             | 5                              |  |
| 31+30.33 | 35+05.83 | LT     |  |                                  |  |                                |                             | 5                              |  |
| 35+05.83 | 35+66.83 | LT     |  |                                  |  |                                | 2                           |                                |  |
| 35+05.83 | 35+43.33 | LT     |  |                                  |  |                                |                             |                                | 1                                      |
| 35+43.33 | 35+80.83 | LT     |  |                                  | 1  | 1                              |                             |                                |  |
| 42+14.00 | 45+96.06 | LT     |  |                                  |  |                                |                             | 5                              |  |
| 45+96.06 | 46+33.56 | LT     |  |                                  |  |                                |                             |                                | 1                                      |
| 45+96.06 | 46+71.06 | LT     |  |                                  |  |                                | 2                           |                                |  |
| 46+33.56 | 46+71.06 | LT     |  |                                  | 1  | 1                              |                             |                                |  |
| TOTAL    |          |        | 1,117  | 3                                | 3  | 3                              | 16                          | 19                             | 2                                      |

STORM SEWERS

| STATION | OFFSET    | STATION | OFFSET    | 550A0050                       | 54213657   | 60218500   | 60235700                           |
|---------|-----------|---------|-----------|--------------------------------|--|--|------------------------------------|
|         |           |         |           | STORM SEWER CLASS A TYPE 1 12" | PRECAST REINFORCED CONCRETE FLARED END SECTION 12" | MANHOLES TYPE A 4' DIAMETER TYPE 3 FRAME & GRATE | INLETS TYPE A TYPE 3 FRAME & GRATE |
|         |           |         |           | FOOT                           | EACH   | EACH   | EACH                               |
| 27+10.0 | -33.45 LT | 27+10.0 | -40.98 LT | 7.5                            | 1  |  | 1                                  |
| 27+10.0 | 33.45 RT  | 27+10.0 | 39.69 RT  | 6.2                            | 1  |  | 1                                  |
| 28+00.0 | -33.45 LT | 28+00.0 | -40.97 LT | 7.5                            | 1  |  | 1                                  |
| 28+00.0 | 33.45 RT  | 28+00.0 | 39.68 RT  | 6.2                            | 1  |  | 1                                  |
| 29+00.0 | -33.45 LT | 29+00.0 | -40.97 LT | 7.5                            | 1  |  | 1                                  |
| 29+00.0 | 33.45 RT  | 29+00.0 | 39.68 RT  | 6.2                            | 1  |  | 1                                  |
| 29+37.0 | -33.45 LT | 29+37.0 | -40.97 LT | 7.5                            | 1  |  | 1                                  |
| 30+00.0 | 33.45 RT  | 30+00.0 | 39.68 RT  | 6.2                            | 1  |  | 1                                  |
| 31+00.0 | 33.45 RT  | 31+00.0 | 39.68 RT  | 6.2                            | 1  |  | 1                                  |
| 31+75.0 | -33.45 LT | 31+75.0 | -53.51 LT | 20.1                           | 1  |  | 1                                  |
| 32+13.8 | -31.94 LT | 32+13.8 | -55.17 LT | 23.2                           | 1  |  | 1                                  |
| 32+13.8 | 33.94 RT  | 32+13.8 | 41.31 RT  | 7.4                            | 1  |  | 1                                  |
| 36+00.7 | -34.69 LT | 37+38.1 | -34.70 LT | 137.4                          |  |  | 1                                  |
| 37+40.0 | -37.58 LT | 37+40.0 | -60.55 LT | 23.0                           | 1  | 1  |                                    |
| 36+00.7 | 34.69 RT  | 37+38.1 | 34.70 RT  | 137.4                          |  |  | 1                                  |
| 37+40.0 | 37.58 RT  | 37+40.0 | 47.11 RT  | 9.5                            | 1  | 1  |                                    |
| 38+74.3 | -34.69 LT | 37+41.9 | -35.69 LT | 132.4                          |  |  | 1                                  |
| 38+74.3 | 34.69 RT  | 37+41.9 | 35.69 RT  | 132.4                          |  |  | 1                                  |
| 39+74.3 | -34.69 LT | 38+75.7 | -34.69 LT | 98.5                           |  |  | 1                                  |
| 39+74.3 | 34.69 RT  | 38+75.7 | 34.69 RT  | 98.5                           |  |  | 1                                  |
| 40+74.3 | -34.69 LT | 39+75.7 | -34.69 LT | 98.5                           |  |  | 1                                  |
| 40+74.3 | 34.69 RT  | 39+75.7 | 34.69 RT  | 98.5                           |  |  | 1                                  |
| 46+36.0 | -34.25 LT | 46+36.0 | -54.35 LT | 20.1                           | 1  |  | 1                                  |
| 46+36.0 | 34.25 RT  | 46+36.0 | 40.50 RT  | 6.3                            | 1  |  | 1                                  |
| 47+75.0 | -33.44 LT | 47+75.0 | -53.47 LT | 20.0                           | 1  |  | 1                                  |
| 47+75.0 | 33.44 RT  | 47+75.0 | 45.95 RT  | 12.5                           | 1  |  | 1                                  |
| 49+50.0 | -33.44 LT | 49+50.0 | -55.50 LT | 22.1                           | 1  |  | 1                                  |
| 49+50.0 | 33.44 RT  | 49+50.0 | 36.81 RT  | 3.4                            | 1  |  | 1                                  |
| TOTAL   |           |         |           | 1163                           | 20   | 2  | 26                                 |

RIPRAP

| STATION | STATION | OFFSET | TYPE         | 28100107              | 28200200      |
|---------|---------|--------|--------------|-----------------------|---------------|
|         |         |        |              | STONE RIPRAP CLASS A4 | FILTER FABRIC |
|         |         |        |              | TONS                  | SO YD         |
| 19+50.0 | 22+00.0 | RT     | DITCH LINING | 560                   | 611           |
| 20+75.0 | 21+50.0 | LT     | DITCH LINING | 168                   | 183           |
| 26+00.0 | 28+00.0 | LT     | DITCH LINING | 448                   | 489           |
| 27+00.0 | -       | LT     | PIPE OUTLET  | 13                    | 15            |
| 27+00.0 | -       | RT     | PIPE OUTLET  | 7                     | 8             |
| 28+00.0 | -       | LT     | PIPE OUTLET  | 23                    | 25            |
| 28+00.0 | -       | RT     | PIPE OUTLET  | 12                    | 13            |
| 29+00.0 | -       | LT     | PIPE OUTLET  | 23                    | 25            |
| 29+00.0 | -       | RT     | PIPE OUTLET  | 13                    | 14            |
| 29+37.0 | -       | LT     | PIPE OUTLET  | 23                    | 25            |
| 29+00.0 | 32+49.3 | RT     | CAUSEWAY     | 1251                  | 1364          |
| 30+00.0 | -       | RT     | PIPE OUTLET  | 9                     | 9             |
| 31+00.0 | -       | RT     | PIPE OUTLET  | 8                     | 9             |
| 31+51.0 | -       | LT     | PIPE OUTLET  | 13                    | 15            |
| 32+25.0 | -       | LT     | PIPE OUTLET  | 7                     | 7             |
| 32+25.0 | -       | RT     | PIPE OUTLET  | 7                     | 8             |
| 32+00.0 | 32+49.3 | LT     | CAUSEWAY     | 121                   | 132           |
| 32+49.3 | 33+04.6 |        | BRIDGE       | 853                   | 931           |
| 34+33.1 | 34+88.6 |        | BRIDGE       | 861                   | 938           |
| 34+88.6 | 42+33.0 | LT     | CAUSEWAY     | 2460                  | 2684          |
| 34+88.6 | 42+33.0 | RT     | CAUSEWAY     | 2347                  | 2560          |
| 42+33.0 | 42+91.0 |        | BRIDGE       | 904                   | 987           |
| 45+14.7 | 45+77.7 |        | BRIDGE       | 1086                  | 1185          |
| 45+77.7 | 46+50.0 | LT     | CAUSEWAY     | 227                   | 248           |
| 45+77.7 | 46+50.0 | RT     | CAUSEWAY     | 166                   | 181           |
| 46+05.0 | -       | LT     | PIPE OUTLET  | 15                    | 16            |
| 46+05.0 | -       | RT     | PIPE OUTLET  | 18                    | 20            |
| 46+50.0 | 50+00.0 | LT     | DITCH LINING | 570                   | 622           |
| 46+50.0 | 48+00.0 | RT     | DITCH LINING | 336                   | 367           |
| 47+75.0 | -       | LT     | PIPE OUTLET  | 13                    | 13            |
| TOTAL   |         |        |              | 12562                 | 13704         |

CONCRETE CURB AND GUTTER

| STATION | OFFSET  | STATION | OFFSET  | 60605000                             | 42001300        |
|---------|---------|---------|---------|--------------------------------------|-----------------|
|         |         |         |         | CONCRETE CURB AND GUTTER TYPE B-6.24 | PROTECTIVE COAT |
|         |         |         |         | FOOT                                 | SO YD           |
| 26+00.0 | 31 LT   | 29+38.8 | 31 LT   | 339                                  | 113             |
| 29+38.8 | 31 LT   | 30+13.4 | 47.7 LT | 77                                   | 25              |
| 30+13.4 | 47.7 LT | 30+39.9 | 89.2 LT | 53                                   | 18              |
| 30+86.3 | 86 LT   | 31+00.0 | 56 LT   | 34                                   | 11              |
| 31+00.0 | 56 LT   | 31+49.9 | 31.2 LT | 57                                   | 19              |
| 31+49.9 | 31.2 LT | 32+30.3 | 33 LT   | 81                                   | 27              |
| 26+00.3 | 31 RT   | 31+00.0 | 31 RT   | 500                                  | 166             |
| 31+00.0 | 31 RT   | 31+40.3 | 31 RT   | 40                                   | 13              |
| 31+40.3 | 31 RT   | 32+30.3 | 33 RT   | 90                                   | 30              |
| 35+07.8 | 33 LT   | 42+14.0 | 33 LT   | 706                                  | 236             |
| 35+07.5 | 33 RT   | 42+14.6 | 33 RT   | 707                                  | 236             |
| 45+96.7 | 33 LT   | 46+86.7 | 31 LT   | 90                                   | 30              |
| 46+86.7 | 31 LT   | 51+00.0 | 31 LT   | 413                                  | 138             |
| 51+00.0 | 31 LT   | 52+00.0 | 31 LT   | 100                                  | 33              |
| 45+96.7 | 33 RT   | 46+86.7 | 31 RT   | 90                                   | 30              |
| 46+86.7 | 31 RT   | 51+00.0 | 31 RT   | 413                                  | 138             |
| 51+00.0 | 31 RT   | 52+00.0 | 31 RT   | 100                                  | 33              |
| TOTAL   |         |         |         | 3890                                 | 1296            |

INLET & PIPE PROTECTION

| STATION          | OFFSET |    | 28000500                       |
|------------------|--------|----|--------------------------------|
|                  |        |    | INLET AND PIPE PROTECTION EACH |
| REAS BRIDGE ROAD |        |    |                                |
| 18+62.0          | 33.8   | RT | 1                              |
| 20+41.4          | 34.8   | RT | 1                              |
| 22+00.0          | 47.0   | RT | 1                              |
| 22+80.0          | 54.9   | RT | 1                              |
| 24+69.0          | 59.9   | RT | 1                              |
| 26+28.0          | 76.1   | RT | 1                              |
| 27+10.0          | 32.7   | RT | 1                              |
| 27+10.0          | 32.7   | RT | 1                              |
| 28+00.0          | 32.7   | RT | 1                              |
| 28+00.0          | 32.7   | RT | 1                              |
| 29+00.0          | 32.7   | RT | 1                              |
| 29+00.0          | 32.7   | RT | 1                              |
| 29+37.0          | 32.7   | RT | 1                              |
| 30+00.0          | 32.7   | RT | 1                              |
| 31+00.0          | 32.7   | RT | 1                              |
| 31+00.0          | 32.7   | RT | 1                              |
| 31+75.0          | 33.0   | RT | 1                              |
| 32+13.8          | 34.6   | RT | 1                              |
| 32+13.8          | 34.6   | RT | 1                              |
| 36+00.0          | 34.7   | RT | 1                              |
| 36+00.0          | 34.7   | RT | 1                              |
| 37+40.0          | 34.7   | RT | 1                              |
| 37+40.0          | 34.7   | RT | 1                              |
| 38+75.0          | 34.7   | RT | 1                              |
| 38+75.0          | 34.7   | RT | 1                              |
| 39+75.0          | 34.7   | RT | 1                              |
| 39+75.0          | 34.7   | RT | 1                              |
| 40+75.0          | 34.7   | RT | 1                              |
| 40+75.0          | 34.7   | RT | 1                              |
| 46+36.0          | 34.5   | RT | 1                              |
| 46+36.0          | 34.5   | RT | 1                              |
| 47+75.0          | 32.7   | RT | 1                              |
| 47+75.0          | 32.7   | RT | 1                              |
| 49+50.0          | 32.7   | RT | 1                              |
| 49+50.0          | 32.7   | RT | 1                              |
| 50+14.7          | 46.6   | RT | 1                              |
| 51+16.5          | 62.6   | RT | 1                              |
| 51+57.8          | 46.6   | RT | 1                              |
| 52+46.0          | 36.4   | RT | 1                              |
| 54+38.0          | 31.9   | RT | 1                              |
| 54+48.7          | 47.3   | RT | 1                              |
| 55+96.3          | 33.4   | RT | 1                              |
| 56+95.2          | 36.2   | RT | 1                              |
| 58+49.3          | 47.7   | RT | 1                              |
| 59+10.3          | 35.0   | RT | 1                              |
| SANGAMON ROAD    |        |    |                                |
| 76+00.0          | 22.0   | RT | 1                              |
| 77+40.0          | 39.3   | RT | 1                              |
| 79+00.0          | 37.5   | RT | 1                              |
| TOTAL            |        |    | 47                             |

FILES

|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

SCHEDULE OF QUANTITIES  
 CH 24 (REAS BRIDGE ROAD)

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

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 17        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**DRAINAGE**

| STATION                 | OFFSET   | STATION | OFFSET   | 542A1063      | 542D0223 | 542D0229 | 542D1060 | 542D1066 | 542D1069 | 542D1099 | 54210018 | 5422D054 | 54213663 | 54213450                           | 54213453     | 54213456     | 54213459     | 54213489     | X6020050     |              |                              |
|-------------------------|----------|---------|----------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------------------|
|                         |          |         |          | PIPE CULVERTS |          |          |          |          |          |          |          |          |          | PRECAST REINFORCED CONCRETE FLARED | END SECTIONS | END SECTIONS | END SECTIONS | END SECTIONS | END SECTIONS | END SECTIONS | INLETS TYPE B SPL TYPE 8 F&G |
|                         |          |         |          | CLASS A       |          | CLASS D  |          |          |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
|                         |          |         |          | TYPE 2        | TYPE 1   | TYPE 2   |          |          |          | TYPE 1   | TYPE 2   |          |          |                                    |              |              |              |              |              |              |                              |
| 18"                     | 18"      | 24"     | 15"      | 21"           | 24"      | 54"      | 18"      | 54"      |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
| FOOT                    | FOOT     | FOOT    | FOOT     | FOOT          | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | EACH     | EACH                               | EACH         | EACH         | EACH         | EACH         | EACH         |              |                              |
| <b>REAS BRIDGE ROAD</b> |          |         |          |               |          |          |          |          |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
| 20+41.3                 | 34.80 LT | 20+71.3 | 35.50 LT |               |          | 30       |          |          |          |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 22+01.5                 | 47.70 RT | 22+78.5 | 54.90 RT | 78            |          |          |          |          |          |          |          |          |          |                                    |              |              |              |              | 1            |              |                              |
| 22+81.5                 | 54.90 RT | 23+43.0 | 55.40 RT | 62            |          |          |          |          |          |          |          |          | 1        |                                    |              |              |              |              | 1            |              |                              |
| 21+90.0                 | 27.50 RT | 22+00.0 | 47.70 RT |               |          |          |          |          |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
| 24+56.4                 | 80.10 RT | 24+70.5 | 59.40 RT |               |          |          |          |          |          |          | 25       |          |          |                                    |              |              |              |              |              |              |                              |
| 24+69.0                 | 59.90 RT | 25+44.0 | 63.70 RT |               |          |          |          |          | 75       |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 26+28.0                 | 76.10 RT | 27+04.0 | 65.20 RT |               |          |          |          |          | 77       |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 29+02.3                 | 74.70 LT | 30+22.2 | 80.30 LT |               |          |          |          |          |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
| 49+85.8                 | 46.60 RT | 50+11.8 | 46.60 RT |               |          | 26       |          |          |          |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 50+64.0                 | 62.60 LT | 51+14.0 | 62.60 LT |               |          |          |          |          | 50       |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 51+13.0                 | 46.60 RT | 51+50.0 | 46.60 RT |               |          | 37       |          |          |          |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 52+20.0                 | 42.20 RT | 52+46.0 | 36.40 RT |               |          | 26       |          |          |          |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| 54+12.0                 | 32.40 RT | 54+38.0 | 31.90 RT |               |          | 26       |          |          |          |          |          |          |          |                                    |              |              |              | 2            |              |              |                              |
| <b>SANGAMON ROAD</b>    |          |         |          |               |          |          |          |          |          |          |          |          |          |                                    |              |              |              |              |              |              |                              |
| 76+00.0                 | 22.00 RT | 76+00.0 | 23.00 LT |               |          |          |          | 90       |          |          |          |          |          |                                    |              |              |              | 4            |              |              |                              |
| 76+92.0                 | 39.30 LT | 77+40.0 | 39.30 LT |               |          | 48       |          |          |          |          |          |          |          | 2                                  |              |              |              |              |              |              |                              |
| 79+00.0                 | 37.50 RT | 79+00.0 | 58.50 LT |               |          |          |          |          | 96       |          |          |          |          |                                    |              |              |              |              | 2            |              |                              |
| <b>TOTAL</b>            |          |         |          | 140           | 52       | 93       | 48       | 90       | 202      | 96       | 25       | 120      | 1        | 2                                  | 4            | 4            | 12           | 2            | 2            |              |                              |

**SIGNAGE**

| STATION                 | OFFSET | SIDE | LANE | FACING | TYPE OF SIGN                                      | SIGN CODE | SIGN SIZE | 72000100          | 72900100          |       |
|-------------------------|--------|------|------|--------|---|-----------|-----------|-------------------|-------------------|-------|
|                         |        |      |      |        |   |           |           | SIGN PANEL TYPE 1 | METAL POST TYPE A |       |
|                         |        |      |      |        |   |           | INCH      | SO FT             | NUMBER            | FT    |
| <b>REAS BRIDGE ROAD</b> |        |      |      |        |   |           |           |                   |                   |       |
| 21+95.7                 | 24.0   | RT   | WB   | EAST   | SIDE ROAD ( TO LEFT )                             | W2-2      | 30x30     | 6.25              | 1                 | 20.5  |
|                         |        |      |      |        | SANGAMON RD                                       | W16-8P    |           |                   |                   |       |
| 25+78.8                 | 30.5   | LT   | EB   | WEST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 21.0  |
| 26+53.9                 | 36.1   | LT   | EB   | WEST   | SIDE ROAD ( TO LEFT )                             | W2-2      | 30x30     | 6.25              | 1                 | 14.5  |
| 26+98.8                 | 36.1   | LT   | EB   | WEST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.5  |
| 28+18.8                 | 36.1   | LT   | EB   | WEST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.5  |
| 29+38.8                 | 36.1   | LT   | EB   | WEST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.5  |
| 31+49.8                 | 36.2   | LT   | EB   | WEST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 12.5  |
| 35+51.2                 | 37.8   | LT   | EB   | WEST   | LANE ENDS   | W4-2      | 36x36     | 9.00              | 1                 | 14.6  |
| 37+63.1                 | 37.8   | LT   | EB   | WEST   | SIDE ROAD ( TO RIGHT )                            | W2-2      | 30x30     | 6.25              | 1                 | 15.0  |
|                         |        |      |      |        | SANGAMON RD                                       | W16-8P    |           |                   |                   |       |
| 41+65.7                 | 38.1   | RT   | WB   | EAST   | LANE ENDS   | W4-2      | 36x36     | 9.00              | 1                 | 12.6  |
| 46+86.7                 | 36.1   | RT   | WB   | EAST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.7  |
| 47+47.0                 | 35.6   | LT   | EB   | WEST   | SPEED LIMIT 55                                    | R2-1      | 30x36     | 7.50              | 1                 | 16.0  |
|                         |        |      |      |        | ADOPT-A-STREET " IZAAK WALTON LEAGUE OF AMERICA " | D14-2     | 36x30     | 7.50              |                   |       |
| 47+47.0                 | 36.1   | RT   | WB   | EAST   | SPEED LIMIT 45                                    | R2-1      | 30x36     | 7.50              | 1                 | 11.7  |
| 47+47.0                 | 40.6   | RT   | WB   | EAST   | TRUCK ENTRANCE                                    | W11-22    | 36x36     | 9.00              | 1                 | 14.3  |
| 48+06.7                 | 36.1   | RT   | WB   | EAST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.7  |
| 49+26.7                 | 36.1   | RT   | WB   | EAST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.7  |
| 49+86.7                 | 36.1   | RT   | WB   | EAST   | HIDDEN DRIVE                                      | W11-Y13   | 30x30     | 6.25              | 1                 | 12.0  |
| 50+46.7                 | 36.1   | RT   | WB   | EAST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.7  |
| 51+66.7                 | 36.1   | RT   | WB   | EAST   | CHEVERON  | W1-8      | 18x24     | 3.00              | 1                 | 10.7  |
| <b>SANGAMON ROAD</b>    |        |      |      |        |   |           |           |                   |                   |       |
| 79+44.8                 | 32.5   | RT   | NB   | SOUTH  | STOP  | R1-1      | 30x30     | 5.2               | 1                 | 12.8  |
|                         |        |      |      |        | 6200 REAS BRIDGE RD                               | D3-1      |           |                   |                   |       |
|                         |        |      |      |        | 3100 SANGAMON RD                                  | D3-1      |           |                   |                   |       |
| <b>TOTAL</b>            |        |      |      |        |   |           |           | 109.7             |                   | 262.5 |

**ENTRANCES**

| LOCATION                | RT/LT | TYPE  | 35101800                        | 40800025                            | 42300400                      | XX006520              | Z0004510                 |
|-------------------------|-------|-------|---------------------------------|-------------------------------------|-------------------------------|-----------------------|--------------------------|
|                         |       |       | AGGREGATE BASE COURSE TYPE B 6" | BITUMINOUS MATERIALS ( PRIME COAT ) | P. C. C. DRIVEWAY PAVEMENT 8" | AGGREGATE DRIVEWAY 6" | HMA DRIVEWAY PAVEMENT 3" |
|                         |       |       | SO YD                           | LBS                                 | SO YD                         | SO YD                 | SO YD                    |
| <b>REAS BRIDGE ROAD</b> |       |       |                                 |                                     |                               |                       |                          |
| 20+55.00                | LT    | F. E. |                                 |                                     |                               | 59                    |                          |
| 22+55.80                | RT    | P. E. | 71                              | 160                                 |                               |                       | 71                       |
| 23+04.30                | RT    | P. E. | 154                             | 347                                 |                               |                       | 154                      |
| 25+02.60                | RT    | C. E. | 167                             | 377                                 |                               |                       | 167                      |
| 26+65.50                | RT    | C. E. | 132                             | 297                                 |                               |                       | 132                      |
| 50+00.00                | RT    | P. E. | 70                              | 158                                 |                               |                       | 70                       |
| 50+87.80                | LT    | C. E. | 160                             | 361                                 |                               |                       | 160                      |
| 51+37.00                | RT    | F. E. | 79                              | 177                                 |                               |                       | 79                       |
| 52+34.70                | RT    | P. E. | 60                              | 134                                 |                               |                       | 60                       |
| 54+20.60                | LT    | C. E. |                                 |                                     | 180                           |                       |                          |
| 54+26.10                | RT    | P. E. | 81                              | 182                                 |                               |                       | 81                       |
| 55+79.40                | RT    | P. E. | 60                              | 134                                 |                               |                       | 60                       |
| 56+80.40                | RT    | P. E. | 65                              | 146                                 |                               |                       | 65                       |
| 57+60.40                | RT    | P. E. | 50                              | 113                                 |                               |                       | 50                       |
| 58+25.50                | LT    | C. E. |                                 |                                     | 145                           |                       |                          |
| 58+72.40                | RT    | P. E. | 20                              | 45                                  |                               |                       | 20                       |
| 58+95.00                | RT    | P. E. | 18                              | 40                                  |                               |                       | 18                       |
| <b>SANGAMON ROAD</b>    |       |       |                                 |                                     |                               |                       |                          |
| 77+15.30                | LT    | C. E. |                                 |                                     |                               | 192                   |                          |
| 78+42.00                | RT    | F. E. |                                 |                                     |                               | 161                   |                          |
| 78+42.00                | LT    | C. E. |                                 |                                     |                               | 144                   |                          |
| <b>TOTAL</b>            |       |       | 1187                            | 2671                                | 325                           | 556                   | 1187                     |

I:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Civil\Sheet\6487.dgn

|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

| SCHEDULE OF QUANTITIES   |           |           |              |
|--------------------------|-----------|-----------|--------------|
| CH 24 (REAS BRIDGE ROAD) |           |           |              |
| SCALE:                   | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 18        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

PAVEMENT MARKINGS

| STATION TO STATION | DIRECTION | 78008210                          |           | 78000230       |           | 78008250      |      | 78008270       |                | 78008200            |  |
|--------------------|-----------|-----------------------------------|-----------|----------------|-----------|---------------|------|----------------|----------------|---------------------|--|
|                    |           | POLYUREA PAVEMENT MARKING, TYPE 1 |           |                |           |               |      |                |                |                     |  |
|                    |           | 4" WHITE LINE                     |           | 4" YELLOW LINE |           | 6" WHITE LINE |      | 12" WHITE LINE | 24" WHITE LINE | LETTERS AND SYMBOLS |  |
|                    |           | SOLID                             | SKIP-DASH | SOLID          | SKIP-DASH | SKIP-DASH     |      |                |                |                     |  |
| (FOOT)             |           |                                   |           |                |           |               |      |                |                | (SQ FT)             |  |
| REAS BRIDGE ROAD   |           |                                   |           |                |           |               |      |                |                |                     |  |
| 16+50.0            | 22+85.3   | EB                                | 635.3     |                |           | 158.8         |      |                |                |                     |  |
| 16+50.0            | 22+85.3   | WB                                | 635.3     |                |           |               |      |                |                |                     |  |
| 22+85.3            | 26+00.0   | EB                                | 314.8     | 314.8          |           |               |      |                |                |                     |  |
| 22+85.3            | 26+00.0   | WB                                | 314.8     | 314.8          |           |               |      |                |                |                     |  |
| 26+00.3            | 29+34.2   | EB                                | 334.0     |                |           |               |      |                |                |                     |  |
| 26+00.3            | 31+40.3   | EB                                |           | 540.0          |           |               |      |                |                |                     |  |
| 26+00.3            | 31+40.3   | WB                                | 540.1     | 540.0          |           |               |      |                |                |                     |  |
| 26+00.3            | 29+38.8   | EB                                |           |                |           |               |      |                |                |                     |  |
| 29+34.2            | 31+49.9   | EB                                |           |                |           | 53.9          |      | 130.6          |                |                     |  |
| 31+49.9            | 32+30.3   | EB                                | 80.5      |                |           |               |      |                |                |                     |  |
| 31+40.3            | 32+30.3   | EB                                |           | 90.0           |           |               |      |                |                |                     |  |
| 31+40.3            | 32+30.3   | WB                                | 90.0      | 22.5           | 90.0      |               |      |                |                |                     |  |
| 32+30.3            | 35+07.8   | WB                                |           | 69.3           |           |               |      |                |                |                     |  |
| 32+30.3            | 45+96.7   | EB                                | 1,366.3   |                | 1,366.3   |               |      |                |                |                     |  |
| 32+30.3            | 45+96.7   | WB                                | 1,366.3   |                | 1,366.3   |               |      |                |                |                     |  |
| 31+87.8            |           | EB                                |           |                |           |               |      |                |                | 41.5                |  |
| 32+81.2            | 35+07.8   | EB                                |           | 56.7           |           |               |      |                |                |                     |  |
| 33+08.2            |           | EB                                |           |                |           |               |      |                |                | 41.5                |  |
| 34+26.2            |           | EB                                |           |                |           |               |      |                |                | 41.5                |  |
| 35+07.8            | 42+14.0   | EB                                |           | 176.6          |           |               |      |                |                |                     |  |
| 35+07.8            | 42+14.0   | WB                                |           | 176.6          |           |               |      |                |                |                     |  |
| 42+14.0            | 45+96.7   | EB                                |           | 95.7           |           |               |      |                |                |                     |  |
| 42+14.0            | 45+55.4   | WB                                |           | 85.3           |           |               |      |                |                |                     |  |
| 44+00.8            |           | WB                                |           |                |           |               |      |                |                | 41.5                |  |
| 45+21.2            |           | WB                                |           |                |           |               |      |                |                | 41.5                |  |
| 45+96.7            | 46+86.7   | EB                                | 90.0      | 22.5           | 90.0      |               |      |                |                |                     |  |
| 45+96.7            | 46+86.7   | WB                                | 90.0      |                | 90.0      |               |      |                |                |                     |  |
| 46+41.6            |           | WB                                |           |                |           |               |      |                |                | 41.5                |  |
| 46+86.7            | 52+00.0   | EB                                | 513.5     |                | 513.3     |               |      |                |                |                     |  |
| 46+86.7            | 52+00.0   | WB                                | 513.5     |                | 513.3     |               |      | 141.6          |                |                     |  |
| 52+00.0            | 54+94.2   | EB                                | 294.3     |                | 294.2     |               |      |                |                |                     |  |
| 52+00.0            | 54+94.2   | WB                                | 294.3     |                | 294.2     |               |      |                |                |                     |  |
| 54+94.2            | 55+41.7   | EB                                | 47.5      |                | 47.5      |               |      |                |                |                     |  |
| 54+94.2            | 55+41.7   | WB                                | 47.5      |                | 47.5      |               |      |                |                |                     |  |
| 55+41.7            | 59+25.0   | EB                                | 383.3     |                |           | 95.9          |      |                |                |                     |  |
| 55+41.7            | 59+25.0   | WB                                | 383.3     |                |           |               |      |                |                |                     |  |
| SANGAMON ROAD      |           |                                   |           |                |           |               |      |                |                |                     |  |
| 73+50.0            | 77+19.1   | SB                                | 369.1     |                |           |               |      |                |                |                     |  |
| 77+19.1            | 79+11.7   | SB                                | 187.6     |                |           |               |      |                |                |                     |  |
| 79+11.7            | 79+68.8   | SB                                | 92.8      |                |           |               |      |                |                |                     |  |
| 73+50.0            | 79+46.5   |                                   |           |                |           | 149.1         |      |                |                |                     |  |
| 73+50.0            | 79+11.7   | NB                                | 561.7     |                |           |               |      |                |                |                     |  |
| 79+11.7            | 79+65.4   | NB                                | 95.3      |                |           |               |      |                |                |                     |  |
| 79+65.4            | 79+73.6   | SB                                | 40.6      |                |           |               |      |                |                |                     |  |
| 79+45.4            |           | NB                                |           |                |           |               |      | 26.2           |                |                     |  |
| TOTAL              |           |                                   | 9,681.7   | 705.2          | 6,512.2   | 403.8         | 53.9 | 272.2          | 26.2           | 249.0               |  |
| USE                |           |                                   | 17,303    |                |           | 54            | 273  | 27             | 249            |                     |  |

SEEDING

| STATION          | STATION | OFFSET | AREA (SQ FT) | X25001000                 |                               |                                 |                                |                 | 28000250                          |  |
|------------------|---------|--------|--------------|---------------------------|-------------------------------|---------------------------------|--------------------------------|-----------------|-----------------------------------|--|
|                  |         |        |              | SEEDING CLASS 2 (SPECIAL) | *NITROGEN FERTILIZER NUTRIENT | *PHOSPHORUS FERTILIZER NUTRIENT | *POTASSIUM FERTILIZER NUTRIENT | *MULCH METHOD 2 | TEMPORARY EROSION CONTROL SEEDING |  |
|                  |         |        |              | ACRE                      | POUNDS                        | POUNDS                          | POUNDS                         | ACRE            | POUNDS                            |  |
| REAS BRIDGE ROAD |         |        |              |                           |                               |                                 |                                |                 |                                   |  |
| 16+50.0          | 18+72.5 | RT     | 1360         | 0.031                     | 2                             | 7                               | 4                              | 0.031           |                                   |  |
| 16+50.0          | 20+49.0 | LT     | 1762         | 0.040                     | 2                             | 10                              | 5                              | 0.040           |                                   |  |
| 19+14.1          | 22+49.8 | RT     | 8212         | 0.189                     | 11                            | 45                              | 23                             | 0.189           |                                   |  |
| 22+44.4          | 22+98.1 | RT     | 2241         | 0.051                     | 3                             | 12                              | 6                              | 0.051           |                                   |  |
| 20+61.0          | 29+38.8 | LT     | 29029        | 0.666                     | 40                            | 160                             | 80                             | 0.666           |                                   |  |
| 23+10.3          | 24+96.6 | RT     | 10896        | 0.250                     | 15                            | 60                              | 30                             | 0.250           |                                   |  |
| 25+08.6          | 26+59.5 | RT     | 10308        | 0.237                     | 14                            | 57                              | 28                             | 0.237           |                                   |  |
| 26+71.5          | 32+49.3 | RT     | 18991        | 0.436                     | 26                            | 105                             | 52                             | 0.436           |                                   |  |
| 31+24.5          | 32+66.2 | LT     | 3549         | 0.081                     | 5                             | 20                              | 10                             | 0.081           |                                   |  |
| 35+07.7          | 42+14.3 | RT     | 14373        | 0.330                     | 20                            | 79                              | 40                             | 0.330           |                                   |  |
| 35+07.7          | 42+14.3 | LT     | 16733        | 0.384                     | 23                            | 92                              | 46                             | 0.384           |                                   |  |
| 45+44.0          | 50+80.4 | LT     | 13056        | 0.300                     | 18                            | 72                              | 36                             | 0.300           |                                   |  |
| 45+99.2          | 49+94.0 | RT     | 10762        | 0.247                     | 15                            | 59                              | 30                             | 0.247           |                                   |  |
| 49+94.0          | 51+30.8 | RT     | 5456         | 0.125                     | 8                             | 30                              | 15                             | 0.125           |                                   |  |
| 50+95.7          | 54+13.2 | LT     | 10068        | 0.231                     | 14                            | 55                              | 28                             | 0.231           |                                   |  |
| 51+40.0          | 52+27.8 | RT     | 2859         | 0.066                     | 4                             | 16                              | 8                              | 0.066           |                                   |  |
| 52+35.7          | 54+19.4 | RT     | 5655         | 0.130                     | 8                             | 31                              | 16                             | 0.130           |                                   |  |
| 54+37.1          | 58+10.7 | LT     | 9351         | 0.215                     | 13                            | 52                              | 26                             | 0.215           |                                   |  |
| 54+29.1          | 55+73.3 | RT     | 2442         | 0.056                     | 3                             | 13                              | 7                              | 0.056           |                                   |  |
| 55+85.4          | 56+74.7 | RT     | 1035         | 0.024                     | 1                             | 6                               | 3                              | 0.024           |                                   |  |
| 56+85.7          | 57+55.4 | RT     | 556          | 0.013                     | 1                             | 3                               | 2                              | 0.013           |                                   |  |
| 57+65.4          | 58+67.4 | RT     | 351          | 0.008                     | 0                             | 2                               | 1                              | 0.008           |                                   |  |
| 58+40.6          | 59+25.0 | LT     | 1525         | 0.035                     | 2                             | 8                               | 4                              | 0.035           |                                   |  |
| 58+77.4          | 59+25.0 | RT     | 137          | 0.003                     | 0                             | 1                               | 0                              | 0.003           |                                   |  |
| SANGAMON ROAD    |         |        |              |                           |                               |                                 |                                |                 |                                   |  |
| 73+50.0          | 77+09.1 | LT     | 11851        | 0.272                     | 16                            | 65                              | 33                             | 0.272           |                                   |  |
| 73+50.0          | 78+34.3 | RT     | 9821         | 0.225                     | 14                            | 54                              | 27                             | 0.225           |                                   |  |
| 77+21.6          | 78+35.7 | LT     | 10478        | 0.241                     | 14                            | 58                              | 29                             | 0.241           |                                   |  |
| 78+49.7          | 79+66.4 | RT     | 9519         | 0.219                     | 13                            | 52                              | 26                             | 0.219           |                                   |  |
| 78+48.4          | 79+51.2 | LT     | 4974         | 0.114                     | 7                             | 27                              | 14                             | 0.114           |                                   |  |
| TOTAL            |         |        |              | 5.22                      | 313                           | 1253                            | 626                            | 5.22            | 500                               |  |

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

| SCHEDULE OF QUANTITIES   |           |           |              |
|--------------------------|-----------|-----------|--------------|
| CH 24 (REAS BRIDGE ROAD) |           |           |              |
| SCALE:                   | SHEET NO. | OF SHEETS | STA. TO STA. |

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 19        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

PAVEMENT

| STATION                  | STATION | 31100910<br>SUB-BASE<br>GRANULAR<br>MATERIAL<br>12"<br>SQ YD | 35101600<br>AGGREGATE<br>BASE<br>COURSE<br>TYPE B 4"<br>SQ YD | 40201000<br>AGGREGATE<br>FOR<br>TEMPORARY<br>ACCESS<br>TON | 40600275<br>BITUMINOUS<br>MATERIAL<br>PRIME<br>COAT<br>LBS | 40600290<br>BITUMINOUS<br>MATERIAL<br>TACK<br>COAT<br>LBS | 40701801<br>HOT-MIX<br>ASPHALT<br>PAVEMENT<br>(FD), 6"<br>SQ YD | 40701901<br>HOT-MIX<br>ASPHALT<br>PAVEMENT<br>(FD), 11"<br>SQ YD | 42000060<br>WELDED<br>WIRE<br>REINFORCEMENT<br>SQ YD | 42000080<br>PAVEMENT<br>CONNECTOR<br>(PCC) FOR BRIDGE<br>APPROACH SLAB<br>SQ YD | 42000401<br>PORTLAND CEMENT<br>CONCRETE<br>PAVEMENT<br>9" (JOINTED)<br>SQ YD | 42001300<br>PROTECTIVE<br>COAT<br>SQ YD | 42400200<br>PORTLAND CEMENT<br>CONCRETE<br>SIDEWALK<br>5 INCH, SPECIAL<br>SQ FT | 42400800<br>DETECTABLE<br>WARNINGS<br>SQ FT | 48100500<br>AGGREGATE<br>SHOULDERS<br>TYPE A, 6"<br>SQ YD | 481001500<br>AGGREGATE<br>SHOULDERS<br>TYPE B, 6"<br>SQ YD | 48203029<br>HOT-MIX<br>ASPHALT<br>SHOULDERS, 8"<br>SQ YD | 20062456<br>TEMPORARY<br>PAVEMENT<br>SQ YD |       |
|--------------------------|---------|--|---|--|--|---|---|--|--|---|--|---|---|---|---|--|--|--|-------|
| <b>REA'S BRIDGE ROAD</b> |         |  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 16+50.0                  | 26+00.0 | 3,129  |   |  | 7,041  | 1,250   |   | 2,779  |  |   |  |   |   |   | 475   |  | 91   | 845  |       |
| 19+50.0                  | 26+00.0 |  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 26+00.0                  | 31+00.0 | 3,787  |   |  |  |   |   |  | 3,444  |   | 3,444  | 3,444                                   |   |   |   |  |  |  |       |
| 31+00.0                  | 32+15.3 |  |   |  |  |   |   |  | 808  |   | 808  | 808                                     |   |   |   |  |  |  |       |
| 31+00.0                  | 32+27.3 | 983  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 31+08.1                  | 32+30.3 |  |   |  |  |   |   |  |  |   |  |   | 1,120   | 40  |   |  |  |  |       |
| 32+15.3                  | 32+30.3 |  |   |  |  |   |   |  |  | 110   |  | 110                                     |   |   |   |  |  |  |       |
| 35+07.7                  | 35+22.7 |  |   |  |  |   |   |  |  | 110   |  | 110                                     |   |   |   |  |  |  |       |
| 35+07.7                  | 42+13.9 |  |   |  |  |   |   |  |  |   |  |   | 6,961   |   |   |  |  |  |       |
| 35+10.7                  | 42+11.3 | 5,618  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 35+22.7                  | 41+99.3 |  |   |  |  |   |   |  | 4,962  |   | 4,962  | 4,962                                   |   |   |   |  |  |  |       |
| 41+99.3                  | 42+14.3 |  |   |  |  |   |   |  |  | 110   |  | 110                                     |   |   |   |  |  |  |       |
| 45+96.7                  | 46+11.7 |  |   |  |  |   |   |  |  | 110   |  | 110                                     |   |   |   |  |  |  |       |
| 45+96.7                  | 50+76.0 |  |   |  |  |   |   |  |  |   |  |   | 4,724   |   |   |  |  |  |       |
| 45+99.7                  | 46+86.7 | 673  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 46+11.7                  | 46+86.7 |  |   |  |  |   |   |  | 531  |   | 531  | 531                                     |   |   |   |  |  |  |       |
| 46+86.7                  | 51+00.0 | 3,130  |   |  |  |   |   |  | 2,848  |   | 2,848  | 2,847                                   |   |   |   |  |  |  |       |
| 49+50.0                  | 60+85.0 |  |   |  |  |   |   |  |  |   |  |   |   |   |   |  | 284  |  | 1,310 |
| 51+00.0                  | 52+00.0 | 758  |   |  |  |   |   |  | 689  |   | 689  | 689                                     |   |   |   |  |  |  |       |
| 52+00.0                  | 59+25.0 | 2,423  |   |  | 5,452  | 998   |   | 2,218  |  |   |  |   |   |   | 363   |  |  | 645  |       |
| 18+94.9                  |         |  | 193   |  | 435  | 86  | 191   |  |  |   |  |   |   |   |   |  |  |  |       |
| 19+04.8                  | 25+00.0 |  |   | 480  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| <b>SANGAMON ROAD</b>     |         |  |   |  |  |   |   |  |  |   |  |   |   |   |   |  |  |  |       |
| 73+50.0                  | 77+19.1 |  | 862   |  | 1,938  | 185   | 820   |  |  |   |  |   |   |   | 185   |  |  |  |       |
| 77+19.1                  | 79+11.7 |  | 225   |  | 506  | 48  | 214   |  |  |   |  |   |   |   | 96  |  |  |  |       |
| 77+19.1                  | 79+69.0 |  | 682   |  | 1,533  | 151   | 673   |  |  |   |  |   |   |   |   |  |  |  |       |
| 79+11.7                  | 79+69.0 |  | 194   |  | 438  | 44  | 194   |  |  |   |  |   |   |   |   |  |  |  |       |
| TOTAL                    |         | 20,501   | 2,156   | 480  | 17,343   | 2,762   | 2,092   | 4,997  | 13,282   | 440   | 13,282   | 13,721                                  | 12,805  | 40  | 1,119   | 375  | 1,490  | 1,310                                      |       |

EARTHWORK

| LOCATION      | 20200100            | 20400800   | 20201200              | 20054515  |  |                            |
|---------------|---------------------|--|-----------------------|---|--|----------------------------|
|               | 1                   |  |                       |   | 2  | 3                          |
|               | EARTH<br>EXCAVATION | *EXCAVATION TO BE<br>USED IN EMBANKMENT<br>(ADJUSTED FOR<br>SHRINKAGE)<br>(COL 1 X 0.85) | *EMBANKMENT<br>(FILL) | EARTHWORK BAL<br>WASTE (+) OR<br>FURNISHED<br>EXCAVATION (-)<br>(COL 2 - COL 3) | REMOVAL &<br>DISPOSAL OF<br>UNSUITABLE<br>MATERIAL | ROCK<br>FILL<br>EMBANKMENT |
|               | CU YD               | CU YD  | CU YD                 | CU YD   | CU YD  | TON                        |
| PRE STAGE 1   | 324                 | 243  | 1,793                 | -1,550  | 0  | 0                          |
| STAGE 1       | 8,511               | 6,383  | 45,410                | -39,027   | 14,502   | 70,552                     |
| STAGE 2       | 4,485               | 3,364  | 25,578                | -22,214   | 4,430  | 19,673                     |
| STAGE 3       | 1,093               | 820  | 1,431                 | -611  | 0  | 0                          |
| PROJECT TOTAL | 14,413              | 10,810   | 74,212                | -63,402   | 18,932   | 90,225                     |

EARTH EXCAVATION SHRINKAGE FACTOR = 25%  
ITEMS MARKED WITH AN ASTERISK (\*) ARE FOR INFORMATION ONLY.

PERIMETER EROSION BARRIER

| STATION | OFFSET   | STATION | OFFSET    | 28000400                                |
|---------|----------|---------|-----------|---|
|         |          |         |           | PERIMETER<br>EROSION<br>BARRIER<br>FOOT |
| 28+00.0 | 88' LT   | 29+00.0 | 85.2' LT  | 100                                     |
| 29+00.0 | 85.2' LT | 29+32.6 | 133.3' LT | 58                                      |
| 29+00.0 | 58.5' RT | 29+00.0 | 75.6' RT  | 17                                      |
| 29+00.0 | 58.5' RT | 32+49.3 | 58.1' RT  | 352                                     |
| 31+40.4 | 86.5' LT | 32+00.0 | 88' LT    | 60                                      |
| 32+00.0 | 88' LT   | 32+00.0 | 70.7' LT  | 17                                      |
| 32+00.0 | 70.7' LT | 32+49.3 | 71.3' LT  | 49                                      |
| 32+49.3 | 58.1' RT | 32+49.3 | 36.6' RT  | 22                                      |
| 32+49.3 | 71.3' LT | 32+49.3 | 47.6' LT  | 24                                      |
| 34+88.7 | 47.6' LT | 34+88.7 | 68.5' LT  | 21                                      |
| 34+88.7 | 68.5' LT | 42+32.9 | 72' LT    | 737                                     |
| 34+88.7 | 36.6' RT | 34+88.7 | 55' RT    | 18                                      |
| 34+88.7 | 55' RT   | 42+32.9 | 58.2' RT  | 751                                     |
| 42+32.9 | 58.2' RT | 42+32.9 | 36.7' RT  | 22                                      |
| TOTAL   |          |         |           | 2,248                                   |

RIGHT OF WAY MARKERS

| STATION                 | OFFSET    | 66600105                                    |
|-------------------------|-----------|---|
|                         |           | FURNISH AND<br>ERECT ROW<br>MARKERS<br>EACH |
| <b>REAS BRIDGE ROAD</b> |           |   |
| 27+56.33                | 111.80 RT | 1   |
| 29+32.55                | 133.31 LT | 1   |
| 46+81.98                | 95.11 RT  | 1   |
| 47+58.42                | 105.00 LT | 1   |
| 47+52.52                | 87.77 LT  | 1   |
| 48+50.00                | 65.00 RT  | 1   |
| 49+45.32                | 72.19 LT  | 1   |
| 50+00.00                | 85.00 RT  | 1   |
| 52+13.66                | 70.00 RT  | 1   |
| 52+53.75                | 60.00 RT  | 1   |
| 54+11.75                | 60.05 RT  | 1   |
| 54+65.00                | 45.37 RT  | 1   |
| <b>SANGAMON ROAD</b>    |           |   |
| 74+51.15                | 24.07 RT  | 1   |
| 76+00.00                | 40.00 RT  | 1   |
| TOTAL                   |           | 14  |

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |



DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

|                                 |           |           |              |
|---------------------------------|-----------|-----------|--------------|
| <b>SCHEDULE OF QUANTITIES</b>   |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |           |           |              |
| SCALE:                          | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 20        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**MAINTENANCE OF TRAFFIC**

| STATION TO STATION | DIRECTION | 70306120                                  |                               | 70306210         | 70400100                   | 78200011                       | 70600240  | 70106700               |
|--------------------|-----------|---|-------------------------------|------------------|----------------------------|--------------------------------|---|------------------------|
|                    |           | TEMPORARY PAVEMENT MARKING TAPE, TYPE III |                               |                  | TEMPORARY CONCRETE BARRIER | BARRIER WALL REFLECTOR, TYPE C | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2 | TEMPORARY RUMBLE STRIP |
|                    |           | 4" WHITE - LINE SOLID                     | 4" YELLOW - LINE SOLID DOUBLE | 24" WHITE - LINE |                            |                                |   |                        |
|                    |           | ( FOOT )                                  |                               |                  | ( FOOT )                   | ( EACH )                       | ( EACH )  | ( EACH )               |
| Stage 1            |           |   |                               |                  |                            |                                |   |                        |
| BEFORE WORK ZONE   | EB & WB   |   |                               |                  |                            |                                |   | 6                      |
| 29+00              | 47+65     |   |                               | 3730             |                            |                                |   |                        |
| 29+00              | 47+85     | WB  | 1885                          |                  |                            |                                |   |                        |
| 29+00              | 49+50     | EB  | 2050                          |                  |                            |                                |   |                        |
| 47+85              | 51+00     | WB  | 316                           |                  |                            |                                |   |                        |
| 49+50              | 50+96     | EB  | 146                           |                  |                            |                                |   |                        |
| 50+96              | 59+25     | EB  | 830                           |                  |                            |                                |   |                        |
| 51+00              | 59+25     | WB  | 825                           |                  |                            |                                |   |                        |
| 59+25              | 60+84     | EB  | 159                           |                  |                            |                                |   |                        |
| 59+25              | 61+95     | WB  | 271                           |                  |                            |                                |   |                        |
| Stage 2            |           |   |                               |                  |                            |                                |   |                        |
| BEFORE WORK ZONE   | EB & WB   |   |                               |                  |                            |                                |   | 6                      |
| 16+50              | 26+00     | EB & WB                                   | 1900                          | 1900             |                            |                                |   |                        |
| 18+05              |           | WB  |                               |                  | 11                         |                                |   |                        |
| 19+11              |           | STAR RT RD                                |                               |                  | 18                         |                                |   |                        |
| 26+00              | 29+00     | EB & WB                                   | 602                           | 601              |                            |                                |   |                        |
| 29+00              |           | EB  |                               |                  | 11                         |                                |   |                        |
| 29+00              | 31+40     | EB & WB                                   | 480                           | 480              |                            |                                |   |                        |
| 31+40              | 32+30     | EB & WB                                   | 180                           | 180              |                            |                                |   |                        |
| 32+30              | 45+97     | EB & WB                                   | 2734                          | 2733             |                            |                                |   |                        |
| 45+97              | 46+87     | EB & WB                                   | 180                           | 180              |                            |                                |   |                        |
| 46+87              | 49+80     | EB & WB                                   |                               | 587              |                            |                                |   |                        |
| 46+87              | 50+00     | WB  | 313                           |                  |                            |                                |   |                        |
| 46+87              | 54+74     | EB  | 787                           |                  |                            |                                |   |                        |
| 50+00              |           | WB  |                               |                  | 11                         |                                |   |                        |
| 50+00              | 52+27     | WB  | 227                           |                  |                            |                                |   |                        |
| 52+27              | 55+42     | WB  | 315                           |                  |                            |                                |   |                        |
| 54+74              | 59+32     | EB  | 459                           |                  |                            |                                |   |                        |
| 55+42              | 59+33     | WB  | 391                           |                  |                            |                                |   |                        |
| 56+19              |           | EB  |                               |                  | 16                         |                                |   |                        |
| 59+33              | 60+76     | EB  | 144                           |                  |                            |                                |   |                        |
| 61+04              | 61+95     | EB & WB                                   |                               | 182              |                            |                                |   |                        |
| 26+39              | 29+00     |   |                               |                  | 262.5                      | 22                             | 1   |                        |
| 29+00              | 31+41     |   |                               |                  | 237.5                      | 19                             |   |                        |
| 31+41              | 32+28     |   |                               |                  | 87.5                       | 7                              |   |                        |
| 32+28              | 45+97     |   |                               |                  | 1375                       | 110                            |   |                        |
| 45+97              | 46+84     |   |                               |                  | 87.5                       | 7                              |   |                        |
| 46+84              | 48+97     |   |                               |                  | 212.5                      | 18                             | 1   |                        |
| <b>SUBTOTAL</b>    |           |   | 15194                         | 10573            | 67                         | 2262.5                         | 183   | 2                      |
| <b>TOTAL</b>       |           |   |                               | 25767            | 67                         | 2262.5                         | 183   | 2                      |

**FENCE**

| STATION          | OFFSET   | STATION  | OFFSET   | 66400105                 | 66500105                 |
|------------------|----------|----------|----------|--------------------------|--------------------------|
|                  |          |          |          | CHAIN LINK FENCE 4' FOOT | WOVEN WIRE FENCE 4' FOOT |
| REAS BRIDGE ROAD |          |          |          |                          |                          |
| 21+27.25         | 56.98 LT | 22+32.39 | 58.78 LT |                          | 107                      |
| 28+50.66         | 87.00 LT | 28+95.63 | 85.41 LT |                          | 45                       |
| 31+08.11         | 49.50 LT | 31+87.17 | 50.63 LT | 197                      |                          |
| 35+07.75         | 47.58 LT | 42+14.03 | 47.37 LT | 707                      |                          |
| 45+96.6          | 47.61 LT | 50+75.53 | 49.58 LT | 479                      |                          |
| SANGAMON ROAD    |          |          |          |                          |                          |
| 74+51.15         | 24.07 RT | 78+70.86 | 116.86   |                          | 431                      |
| <b>TOTAL</b>     |          |          |          | 1,383                    | 583                      |

**EROSION CONTROL BLANKET**

| STATION          | STATION | OFFSET | 25100630                      |
|------------------|---------|--------|-------------------------------|
|                  |         |        | EROSION CONTROL BLANKET SO YD |
| REAS BRIDGE ROAD |         |        |                               |
| 16+50.           | 18+72.5 | RT     | 149                           |
| 16+50.           | 20+49.  | LT     | 196                           |
| 19+14.1          | 22+49.8 | RT     | 1004                          |
| 22+58.7          | 22+98.1 | RT     | 249                           |
| 20+61.           | 29+38.8 | LT     | 3612                          |
| 23+10.3          | 24+96.6 | RT     | 1082                          |
| 25+08.6          | 26+59.5 | RT     | 1068                          |
| 26+71.5          | 32+30.3 | RT     | 2095                          |
| 31+49.5          | 32+30.3 | LT     | 336                           |
| 35+07.5          | 42+14.8 | RT     | 1433                          |
| 35+07.9          | 42+13.7 | LT     | 1911                          |
| 45+96.7          | 50+80.  | LT     | 1891                          |
| 45+96.7          | 51+30.8 | RT     | 2052                          |
| 50+95.4          | 54+11.6 | LT     | 1091                          |
| 51+40.           | 52+25.7 | RT     | 336                           |
| 52+35.7          | 54+19.4 | RT     | 628                           |
| 54+37.1          | 58+10.7 | LT     | 309                           |
| 54+29.1          | 55+73.3 | RT     | 247                           |
| 55+85.4          | 56+74.9 | RT     | 46                            |
| 56+86.           | 57+55.4 | RT     | 69                            |
| 57+65.4          | 58+67.4 | RT     | 37                            |
| 58+40.6          | 59+25.  | LT     | 63                            |
| 58+77.4          | 59+25.  | RT     | 15                            |
| SANGAMON ROAD    |         |        |                               |
| 73+50.           | 77+09.1 | LT     | 1317                          |
| 73+50.           | 78+34.3 | RT     | 1109                          |
| 77+21.6          | 78+35.7 | LT     | 1163                          |
| 78+49.7          | 79+66.4 | RT     | 1122                          |
| 78+48.4          | 79+51.2 | LT     | 579                           |
| <b>TOTAL</b>     |         |        | 25,208                        |

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
|              | DRAWN -    | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DATE -     | REVISED - |



DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**SCHEDULE OF QUANTITIES  
CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 21        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

BM NO. 1  
CHISELED LINE ON SE WINGWALL  
OF EAST BRIDGE  
STA 32+83.3, 3, 40.0' LT  
ELEV. 617.17

BM NO. 2  
RAILROAD SPIKE SET IN SW FACE  
OF POWER POLE BY SUBSTATION  
FOR DREDGING OPERATIONS  
STA 28+35.0, 78.3' RT  
ELEV. 623.44

BM NO. 3  
RAILROAD SPIKE SET IN N FACE  
POWER POLE SOUTH SIDE OF REAS  
BRIDGE ROAD EAST OF BEGINNING OF PROJECT  
STA 9+76.9, 57.7' LT  
ELEV. 680.90

BM NO. 4  
CHISELED SQUARE ON SE ABUTMENT  
OF EAST BRIDGE  
STA 32+84.7, 38.0' LT  
ELEV. 627.32

BM NO. 5  
CHISELED SQUARE ON SW WINGWALL  
OF WEST BRIDGE  
STA 45+61.9, 39.5' LT  
ELEV. 627.44

BM NO. 6  
RAILROAD SPIKE SET IN N FACE  
POWER POLE AT E ENTRANCE TO ADM  
WATER FACILITY  
STA 51+35.4, 75.3' LT  
ELEV. 645.28

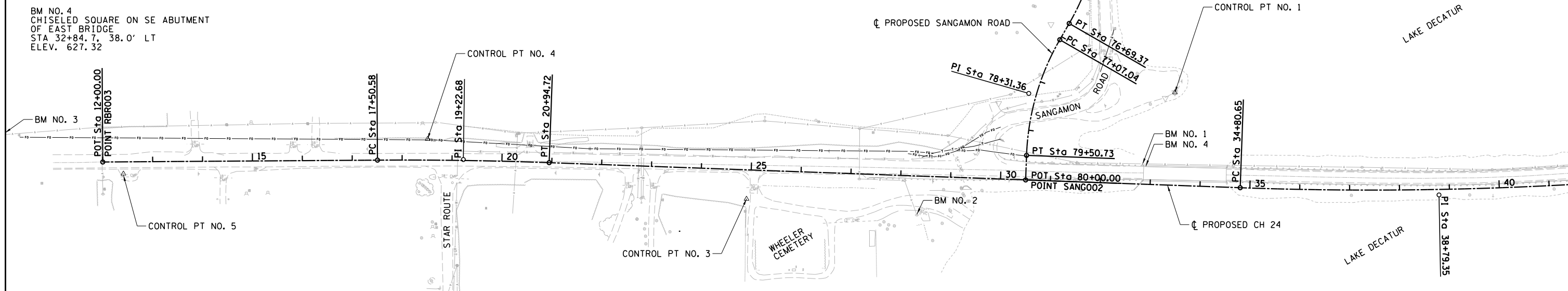
BM NO. 7  
RAILROAD SPIKE SET IN S FACE  
POWER POLE ON N SIDE AT  
5440 REAS BRIDGE RD  
STA 60+62.2, 41.2' RT  
ELEV. 666.33

PROP. CURVE PR\_RBR-1  
PI STA. = 19+22.68  
 $\Delta = 2^\circ 27' 53''$  (RT)  
D = 0° 42' 58"  
R = 8,000.00'  
T = 172.10'  
L = 344.14'  
E = 1.85'  
P.C. STA = 17+50.58  
P.T. STA = 20+94.72

PROP. CURVE SANGAMON-1  
PI STA. = 75+37.51  
 $\Delta = 30^\circ 59' 56''$  (RT)  
D = 11° 27' 33"  
R = 500.00'  
T = 138.66'  
L = 270.52'  
E = 18.87'  
P.C. STA = 73+98.85  
P.T. STA = 76+69.37

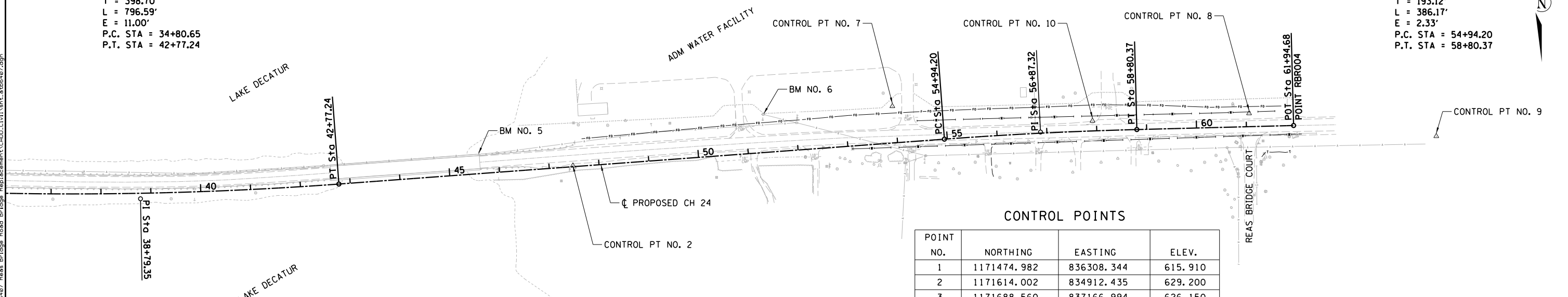
PROP. CURVE SANGAMON-2  
PI STA. = 78+31.36  
 $\Delta = 27^\circ 55' 30''$  (LT)  
D = 11° 27' 33"  
R = 500.00'  
T = 124.32'  
L = 243.69'  
E = 15.22'  
P.C. STA = 77+07.04  
P.T. STA = 79+50.73

PROP. CURVE PR\_RBR-2  
PI STA. = 38+79.35  
 $\Delta = 6^\circ 19' 17''$  (LT)  
D = 0° 47' 37"  
R = 7,220.00'  
T = 398.70'  
L = 796.59'  
E = 11.00'  
P.C. STA = 34+80.65  
P.T. STA = 42+77.24



PROP. CURVE PR\_RBR-2  
PI STA. = 38+79.35  
 $\Delta = 6^\circ 19' 17''$  (LT)  
D = 0° 47' 37"  
R = 7,220.00'  
T = 398.70'  
L = 796.59'  
E = 11.00'  
P.C. STA = 34+80.65  
P.T. STA = 42+77.24

PROP. CURVE PR\_RBR-3  
PI STA. = 56+87.32  
 $\Delta = 2^\circ 45' 57''$  (RT)  
D = 0° 42' 58"  
R = 8,000.00'  
T = 193.12'  
L = 386.17'  
E = 2.33'  
P.C. STA = 54+94.20  
P.T. STA = 58+80.37



CONTROL POINTS

| POINT NO. | NORTHING    | EASTING    | ELEV.   |
|-----------|-------------|------------|---------|
| 1         | 1171474.982 | 836308.344 | 615.910 |
| 2         | 1171614.002 | 834912.435 | 629.200 |
| 3         | 1171688.560 | 837166.994 | 626.150 |
| 4         | 1171568.228 | 837806.007 | 656.100 |
| 5         | 1171646.999 | 838415.747 | 677.130 |
| 7         | 1171619.799 | 835069.380 | 626.521 |
| 8         | 1171509.056 | 833557.248 | 661.820 |
| 9         | 1171554.883 | 833182.036 | 662.200 |
| 10        | 1171524.066 | 833871.046 | 658.260 |

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|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
| PLOT SCALE = | DRAWN -    | REVISED - |
| PLOT DATE =  | CHECKED -  | REVISED - |
|              | DATE -     | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**ALIGNMENT, TIES AND BENCHMARKS  
CH 24 (REAS BRIDGE ROAD)**

SCALE: 1"=100' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 22        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



CENTERLINE CH 24

Point RBR003 N 1, 171, 614.363 E 838, 457.156 Sta 12+00.00  
 Course from RBR003 to PC PR\_RBR-1 S 89° 36' 44" W Dist 550.581

Curve Data

Curve PR\_RBR-1  
 P.I. Station = 19+22.68 N 1, 171, 609.470 E 837, 734.494  
 Delta = 2° 27' 53" (RT)  
 Degree = 0° 42' 58"  
 Tangent = 172.097  
 Length = 344.141  
 Radius = 8,000.000  
 External = 1.851  
 Long Chord = 344.115  
 Mid. Ord. = 1.850  
 P.C. Station = 17+50.58 N 1, 171, 610.635 E 837, 906.587  
 P.T. Station = 20+94.72 N 1, 171, 615.707 E 837, 562.510  
 C.C. = N 1, 179, 610.452 E 837, 852.426  
 Back = S 89° 36' 44" W  
 Ahead = N 87° 55' 23" W  
 Chord Bear = N 89° 09' 20" W

Course from PT PR\_RBR-1 to PC PR\_RBR-2 N 87° 55' 23" W Dist 1,385.929

Curve Data

Curve PR\_RBR-2  
 P.I. Station = 38+79.35 N 1, 171, 680.381 E 835, 779.054  
 Delta = 6° 19' 17" (LT)  
 Degree = 0° 47' 37"  
 Tangent = 398.698  
 Length = 796.588  
 Radius = 7,220.000  
 External = 11.000  
 Long Chord = 796.184  
 Mid. Ord. = 10.983  
 P.C. Station = 34+80.65 N 1, 171, 665.932 E 836, 177.491  
 P.T. Station = 42+77.24 N 1, 171, 650.871 E 835, 381.449  
 C.C. = N 1, 164, 450.675 E 835, 915.842  
 Back = N 87° 55' 23" W  
 Ahead = S 85° 45' 19" W  
 Chord Bear = S 88° 54' 58" W

Course from PT PR\_RBR-2 to PC PR\_RBR-3 S 85° 45' 19" W Dist 1,216.960

Curve Data

Curve PR\_RBR-3  
 P.I. Station = 56+87.32 N 1, 171, 546.503 E 833, 975.233  
 Delta = 2° 45' 57" (RT)  
 Degree = 0° 42' 58"  
 Tangent = 193.124  
 Length = 386.173  
 Radius = 8,000.000  
 External = 2.331  
 Long Chord = 386.136  
 Mid. Ord. = 2.330  
 P.C. Station = 54+94.20 N 1, 171, 560.797 E 834, 167.828  
 P.T. Station = 58+80.37 N 1, 171, 541.519 E 833, 782.173  
 C.C. = N 1, 179, 538.854 E 833, 575.703  
 Back = S 85° 45' 19" W  
 Ahead = S 88° 31' 16" W  
 Chord Bear = S 87° 08' 18" W

Course from PT PR\_RBR-3 to RBR004 S 88° 31' 16" W Dist 314.306

Point RBR004 N 1, 171, 533.407 E 833, 467.972 Sta 61+94.68

CENTERLINE SANGAMON ROAD

Point SANG001 N 1, 170, 979.034 E 836, 455.006 Sta 73+00.00  
 Course from SANG001 to PC SANGAMON-1 N 0° 59' 49" W Dist 98.855

Curve Data

Curve SANGAMON-1  
 P.I. Station = 75+37.51 N 1, 171, 216.510 E 836, 450.873  
 Delta = 30° 59' 56" (RT)  
 Degree = 11° 27' 33"  
 Tangent = 138.658  
 Length = 270.518  
 Radius = 500.000  
 External = 18.870  
 Long Chord = 267.230  
 Mid. Ord. = 18.184  
 P.C. Station = 73+98.85 N 1, 171, 077.873 E 836, 453.286  
 P.T. Station = 76+69.37 N 1, 171, 336.589 E 836, 520.206  
 C.C. = N 1, 171, 086.574 E 836, 953.210  
 Back = N 0° 59' 49" W  
 Ahead = N 30° 00' 07" E  
 Chord Bear = N 14° 30' 09" E

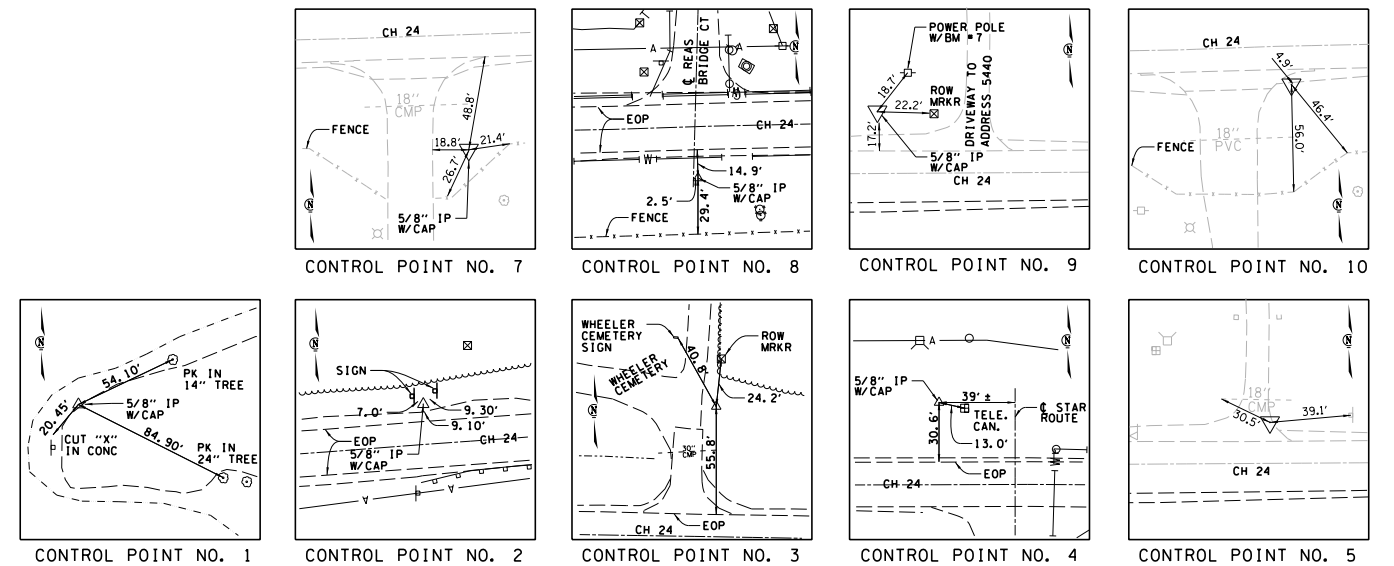
Course from PT SANGAMON-1 to PC SANGAMON-2 N 30° 00' 07" E Dist 37.670

Curve Data

Curve SANGAMON-2  
 P.I. Station = 78+31.36 N 1, 171, 476.870 E 836, 601.204  
 Delta = 27° 55' 30" (LT)  
 Degree = 11° 27' 33"  
 Tangent = 124.317  
 Length = 243.693  
 Radius = 500.000  
 External = 15.223  
 Long Chord = 241.288  
 Mid. Ord. = 14.773  
 P.C. Station = 77+07.04 N 1, 171, 369.211 E 836, 539.042  
 P.T. Station = 79+50.73 N 1, 171, 601.106 E 836, 605.709  
 C.C. = N 1, 171, 619.225 E 836, 106.037  
 Back = N 30° 00' 07" E  
 Ahead = N 2° 04' 37" E  
 Chord Bear = N 16° 02' 22" E

Course from PT SANGAMON-2 to SANG002 N 2° 04' 37" E Dist 49.266

Point SANG002 N 1, 171, 650.339 E 836, 607.494 Sta 80+00.00



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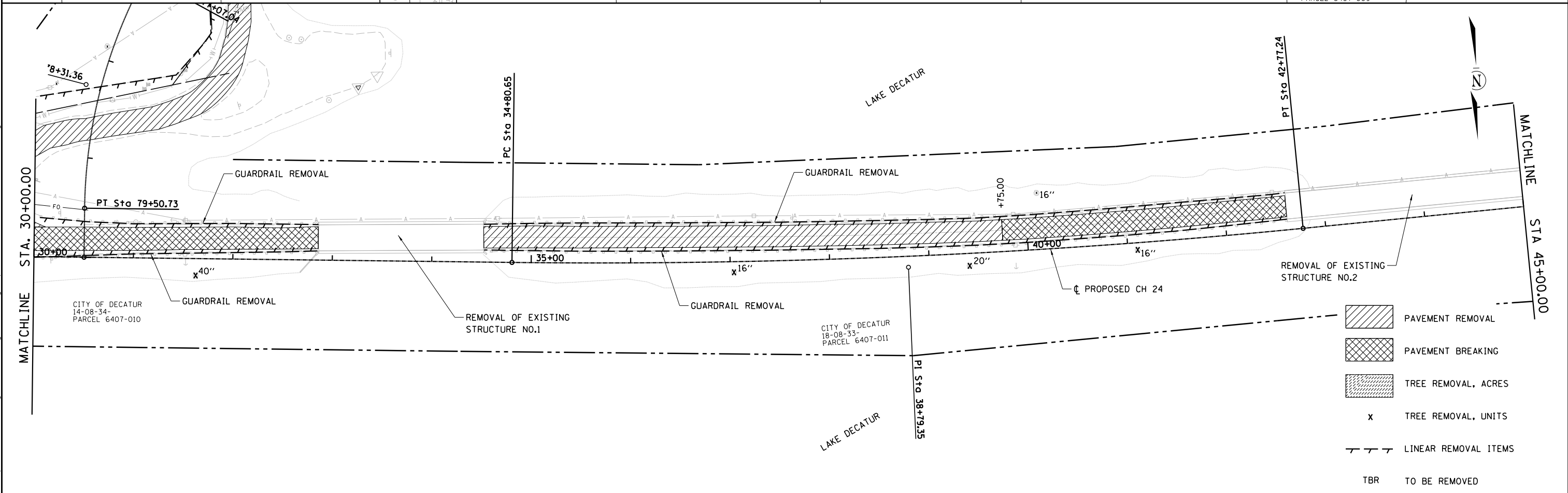
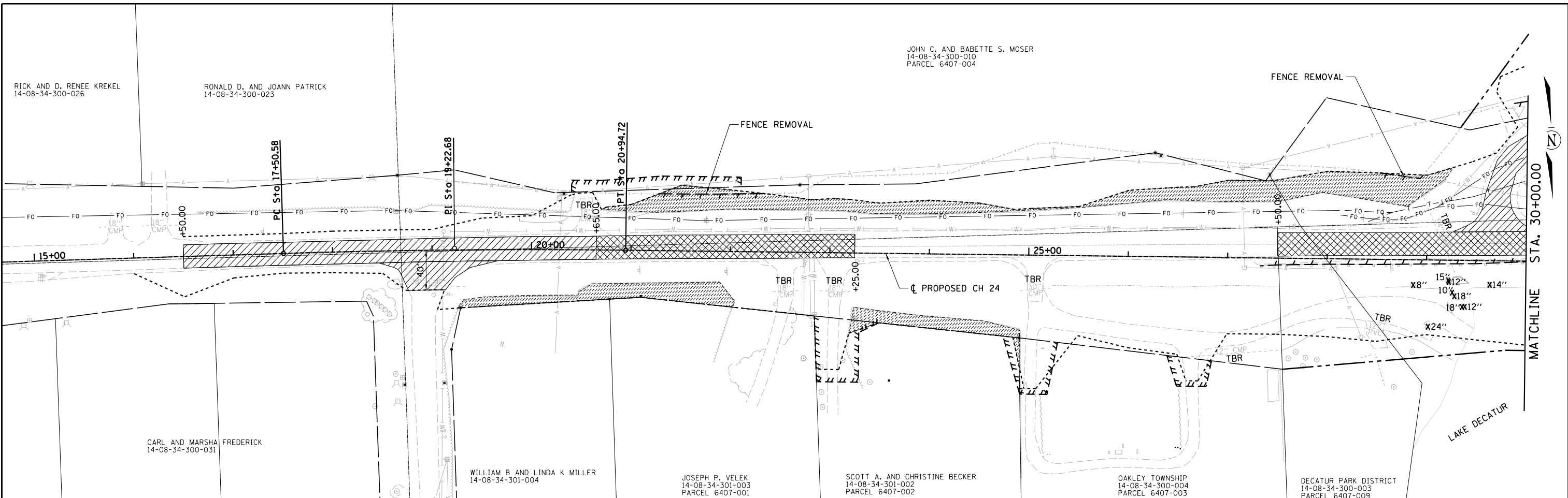
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|--------------|-------------|-----------|
| USER NAME =  | DESIGNED -  | REVISED - |
| DRAWN -      | REVISIONS - |           |
| PLOT SCALE = | CHECKED -   | REVISED - |
| PLOT DATE =  | DATE -      | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**ALIGNMENT, TIES AND BENCHMARKS**  
**CH 24 (REAS BRIDGE ROAD)**  
 SCALE: 1"=100' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 23        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



- PAVEMENT REMOVAL
- PAVEMENT BREAKING
- TREE REMOVAL, ACRES
- TREE REMOVAL, UNITS
- LINEAR REMOVAL ITEMS
- TO BE REMOVED

|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

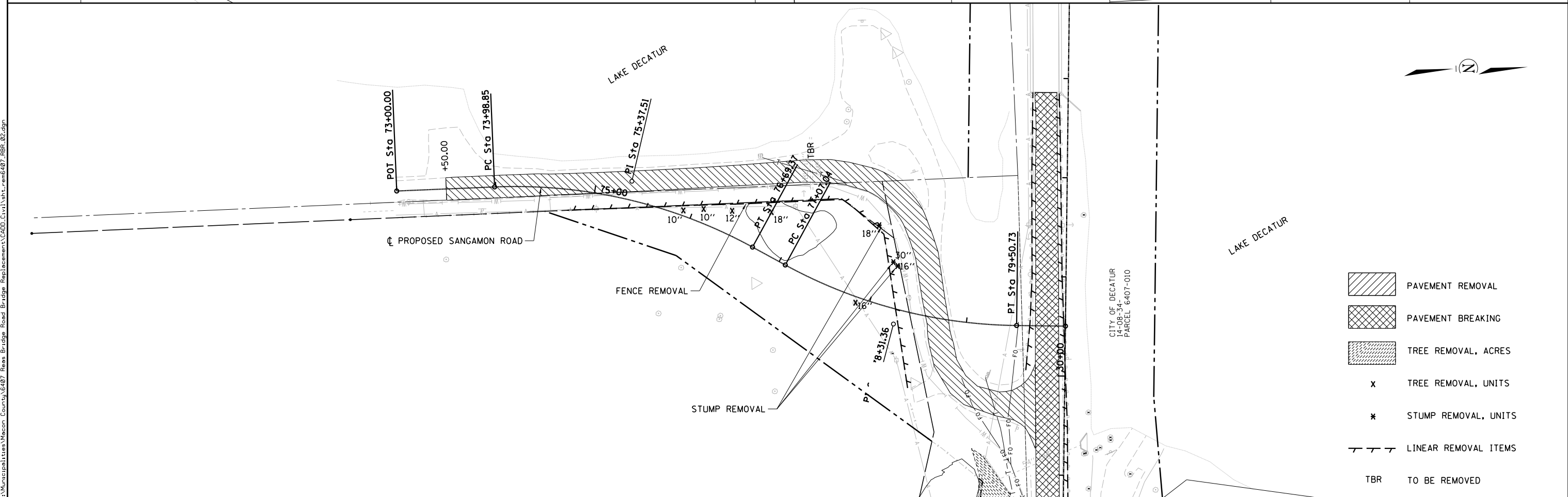
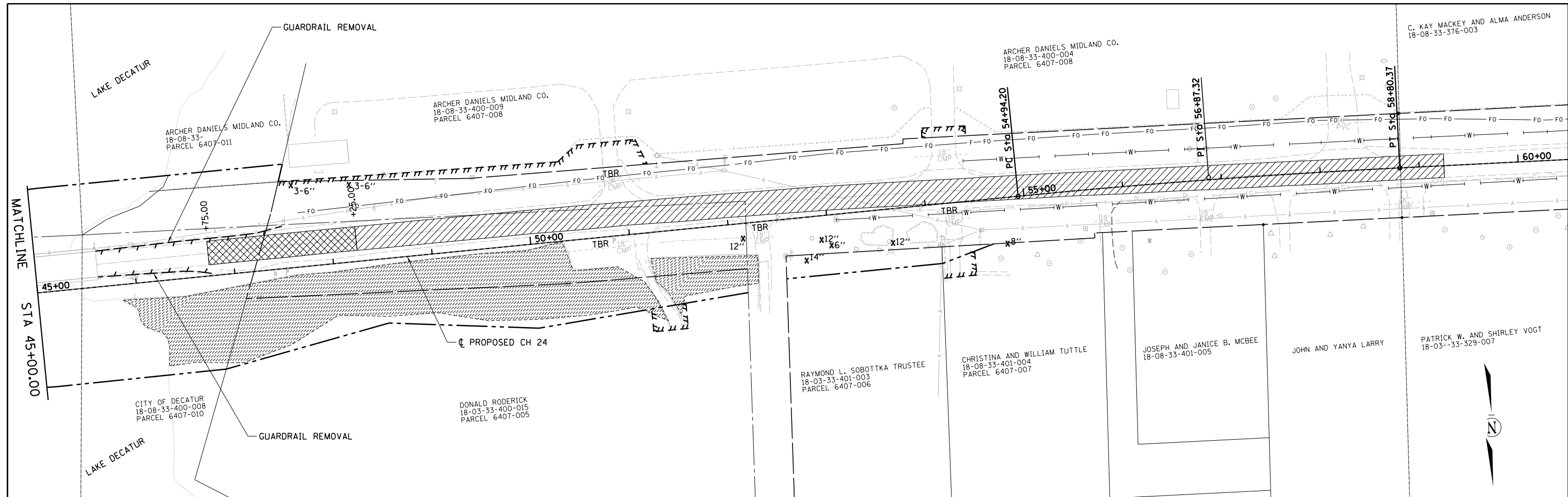
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**REMOVAL PLAN**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE:      SHEET NO. 1 OF 2 SHEETS      STA.      TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 24        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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- PAVEMENT REMOVAL
- PAVEMENT BREAKING
- TREE REMOVAL, ACRES
- TREE REMOVAL, UNITS
- STUMP REMOVAL, UNITS
- LINEAR REMOVAL ITEMS
- TO BE REMOVED

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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184-001397

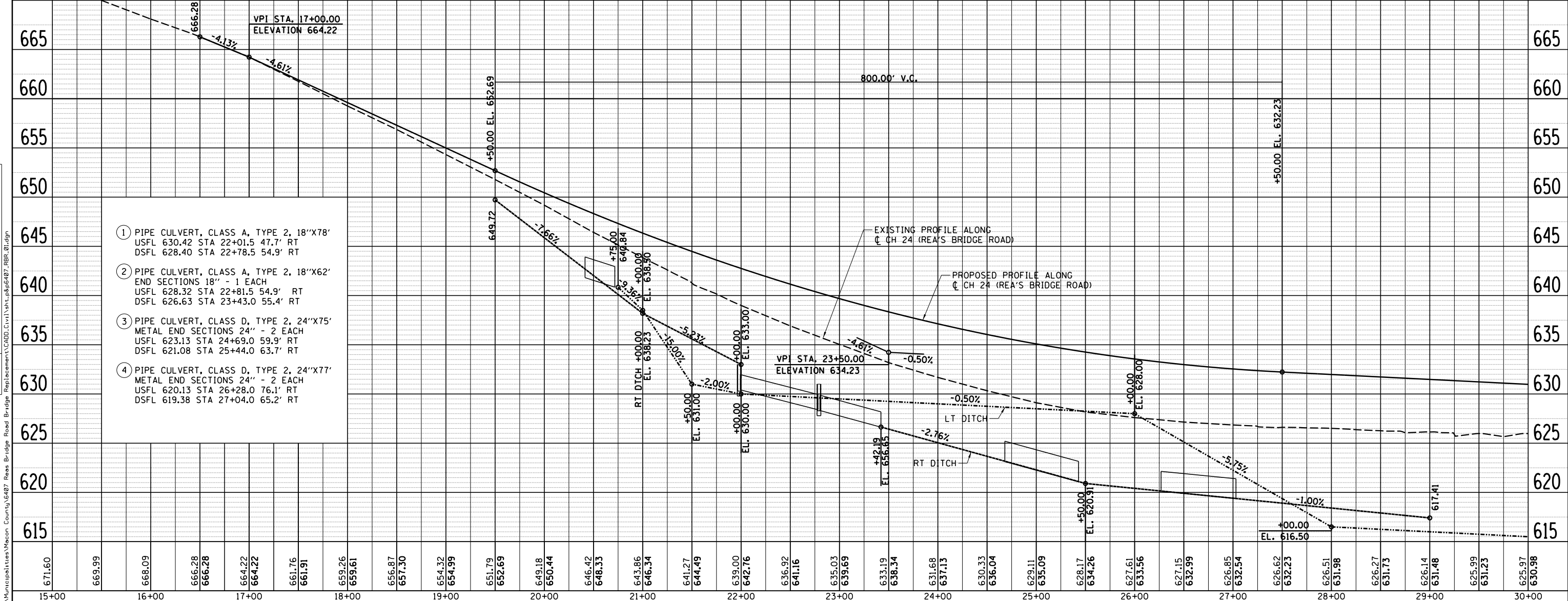
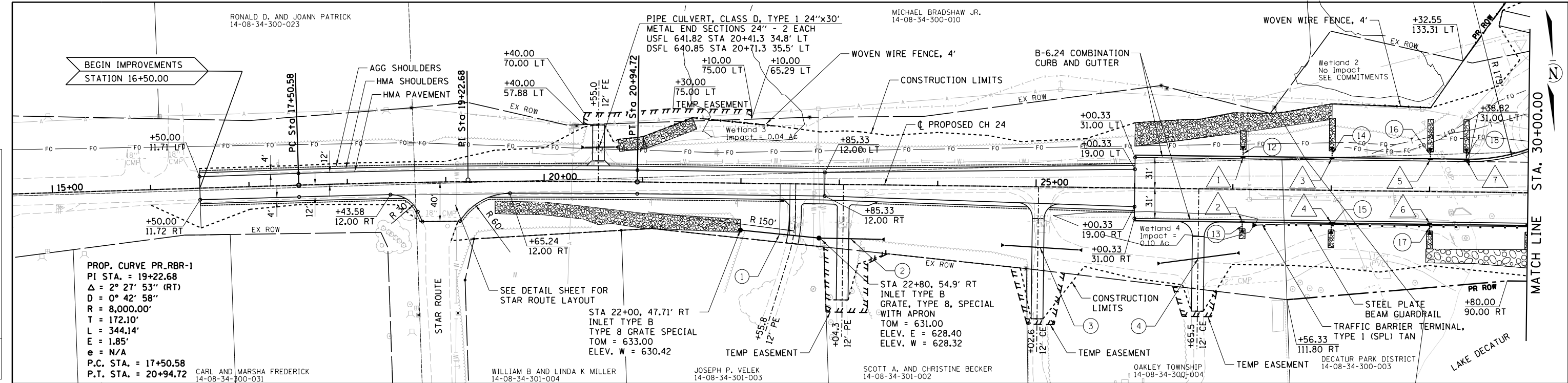
**REMOVAL PLAN**  
**CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 25        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

|      |          |
|------|----------|
| DATE |          |
| BY   |          |
| PLAN | SURVEYED |
|      | PLOTTED  |
|      | ALIGNED  |
|      | CHECKED  |
|      | DESIGNED |
|      | NO. 1    |
|      | NO. 2    |
|      | NO. 3    |
|      | NO. 4    |
|      | NO. 5    |
|      | NO. 6    |
|      | NO. 7    |
|      | NO. 8    |
|      | NO. 9    |
|      | NO. 10   |

|         |                             |
|---------|-----------------------------|
| DATE    |                             |
| BY      |                             |
| PROFILE | SURVEYED                    |
|         | PLOTTED                     |
|         | GRADES CHECKED              |
|         | STRUCTURE NOTATIONS CHECKED |
|         | NO. 1                       |
|         | NO. 2                       |
|         | NO. 3                       |
|         | NO. 4                       |
|         | NO. 5                       |
|         | NO. 6                       |
|         | NO. 7                       |
|         | NO. 8                       |
|         | NO. 9                       |
|         | NO. 10                      |



- ① PIPE CULVERT, CLASS A, TYPE 2, 18"x78'  
USFL 630.42 STA 22+01.5 47.7' RT  
DSFL 628.40 STA 22+78.5 54.9' RT
- ② PIPE CULVERT, CLASS A, TYPE 2, 18"x62'  
END SECTIONS 18" - 1 EACH  
USFL 628.32 STA 22+81.5 54.9' RT  
DSFL 626.63 STA 23+43.0 55.4' RT
- ③ PIPE CULVERT, CLASS D, TYPE 2, 24"x75'  
METAL END SECTIONS 24" - 2 EACH  
USFL 623.13 STA 24+69.0 59.9' RT  
DSFL 621.08 STA 25+44.0 63.7' RT
- ④ PIPE CULVERT, CLASS D, TYPE 2, 24"x77'  
METAL END SECTIONS 24" - 2 EACH  
USFL 620.13 STA 26+28.0 76.1' RT  
DSFL 619.38 STA 27+04.0 65.2' RT

|        |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 671.60 | 669.99 | 668.09 | 666.28 | 666.28 | 664.22 | 664.22 | 661.76 | 661.91 | 659.26 | 659.161 | 656.87 | 657.30 | 654.32 | 654.99 | 651.79 | 652.69 | 649.18 | 650.44 | 646.42 | 648.33 | 643.86 | 646.34 | 641.27 | 644.49 | 639.00 | 642.76 | 636.92 | 641.16 | 635.03 | 639.69 | 633.19 | 638.34 | 631.68 | 637.13 | 630.33 | 636.04 | 629.11 | 635.09 | 628.17 | 634.26 | 627.61 | 633.56 | 627.15 | 632.99 | 626.85 | 632.54 | 626.62 | 632.23 | 626.51 | 631.98 | 626.27 | 631.73 | 626.14 | 631.48 | 625.99 | 631.23 | 625.97 | 630.98 |
| 15+00  | 16+00  | 17+00  | 18+00  | 19+00  | 20+00  | 21+00  | 22+00  | 23+00  | 24+00  | 25+00   | 26+00  | 27+00  | 28+00  | 29+00  | 30+00  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

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|------------------------------|----------------|-----------|
| USER NAME = j_buening        | DESIGNED - TES | REVISED - |
|                              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - JMB  | REVISED - |
| PLOT DATE = 1/25/2022        | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

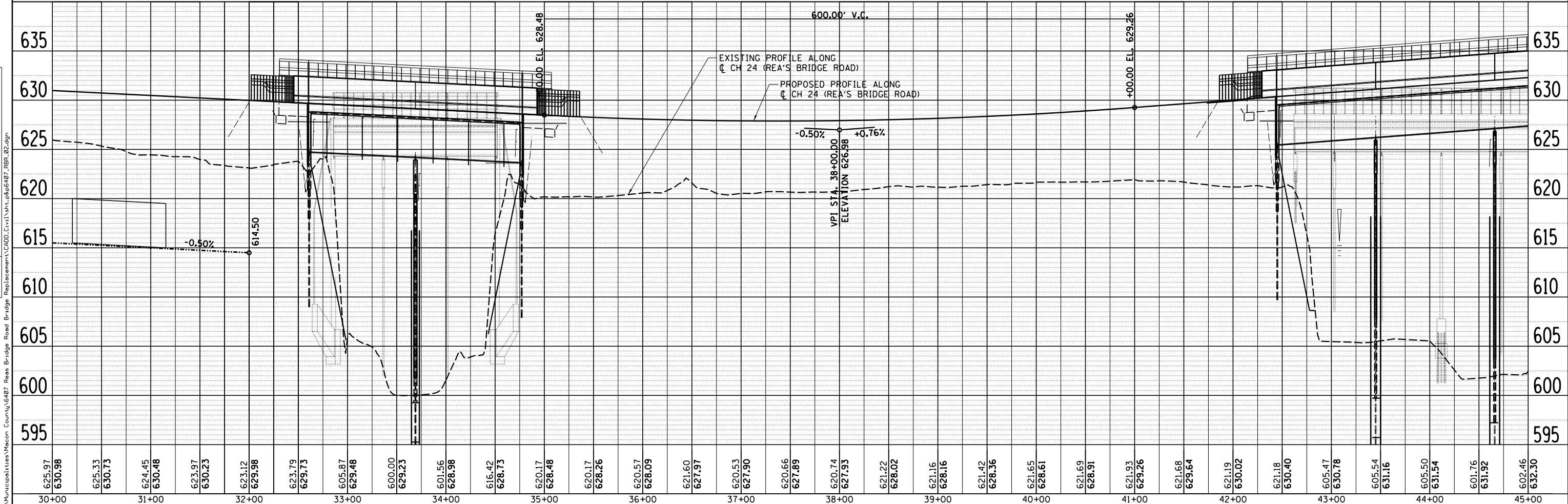
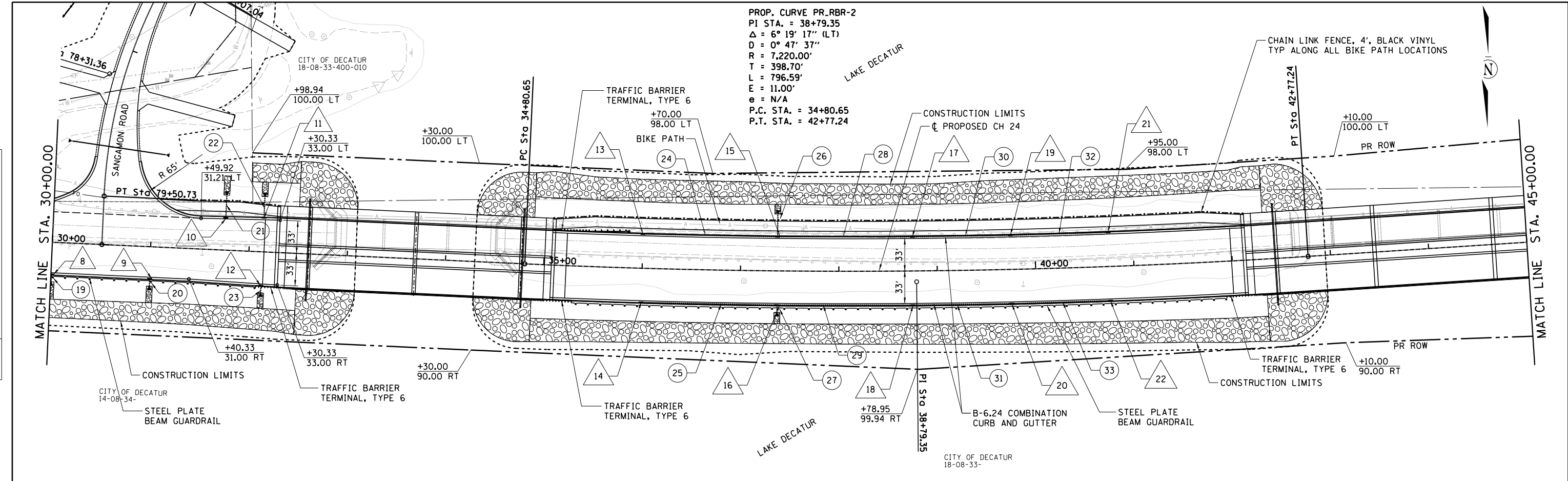
DECATUR (217) 492-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

|                                  |           |           |              |
|----------------------------------|-----------|-----------|--------------|
| <b>PLAN AND PROFILE</b>          |           |           |              |
| <b>CH 24 (REA'S BRIDGE ROAD)</b> |           |           |              |
| SCALE:                           | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 26        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

|      |          |      |
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| PLAN | SURVEYED | DATE |
|      | PLOTTED  | BY   |
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|         |           |      |
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| PROFILE | SURVEYED  | DATE |
|         | PLOTTED   | BY   |
|         | GRADES    |      |
|         | CHECKED   |      |
|         | STRUCTURE |      |
|         | NOTATIONS |      |
|         | CHKD      |      |
|         | NO.       |      |



|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 625.97 | 630.98 | 625.33 | 630.73 | 624.45 | 630.48 | 623.97 | 630.23 | 623.12 | 629.98 | 623.79 | 629.73 | 605.87 | 629.48 | 600.00 | 629.23 | 601.56 | 628.98 | 616.42 | 628.73 | 620.17 | 628.48 | 620.17 | 628.26 | 620.57 | 628.09 | 621.60 | 627.97 | 620.53 | 627.90 | 620.66 | 627.89 | 620.74 | 627.93 | 621.22 | 628.02 | 621.16 | 628.16 | 621.42 | 628.36 | 621.65 | 628.61 | 621.69 | 628.91 | 621.93 | 629.26 | 621.68 | 629.64 | 621.19 | 630.02 | 621.18 | 630.40 | 605.47 | 630.78 | 605.54 | 631.16 | 605.50 | 631.54 | 601.76 | 631.92 | 602.46 | 632.30 |
| 30+00  | 31+00  | 32+00  | 33+00  | 34+00  | 35+00  | 36+00  | 37+00  | 38+00  | 39+00  | 40+00  | 41+00  | 42+00  | 43+00  | 44+00  | 45+00  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

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|-----------------------|----------------|------------|
| USER NAME = j_buening | DESIGNED - TES | REVISIED - |
|                       | DRAWN - RLK    | REVISIED - |
|                       | CHECKED - JMB  | REVISIED - |
|                       | DATE -         | REVISIED - |

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**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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 ROCKFORD (815) 489-0050  
 184-001397

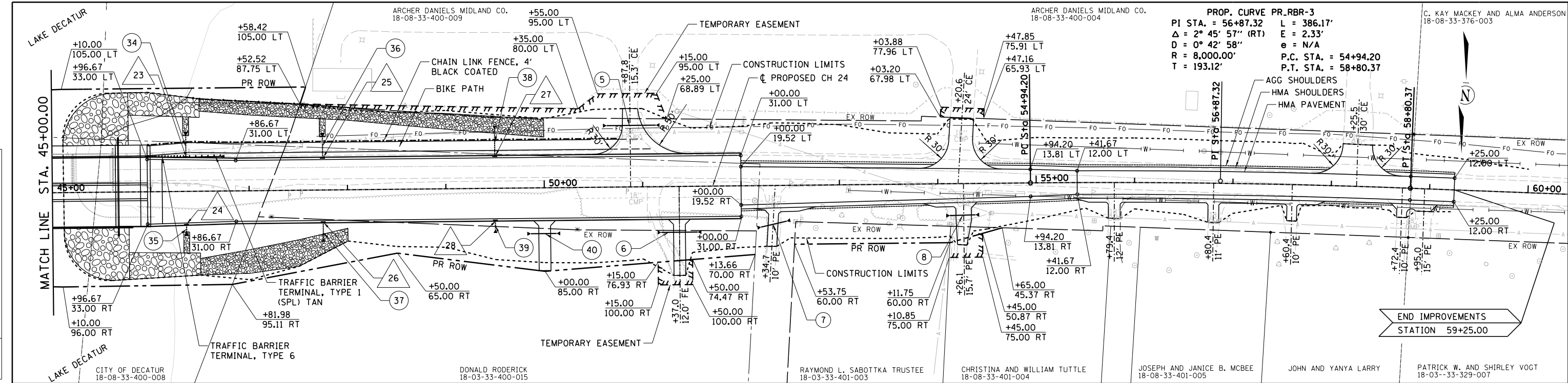
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|---------------------------|-----------|-----------|--------------|
| PLAN AND PROFILE          |           |           |              |
| CH 24 (REA'S BRIDGE ROAD) |           |           |              |
| SCALE:                    | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                        |              |                  |              |
|---------------------------|------------------------|--------------|------------------|--------------|
| F.A.U. RTE. 7355          | SECTION 12-00251-00-BR | COUNTY MACON | TOTAL SHEETS 196 | SHEET NO. 27 |
| CONTRACT NO. 95912        |                        |              |                  |              |
| ILLINOIS FED. AID PROJECT |                        |              |                  |              |

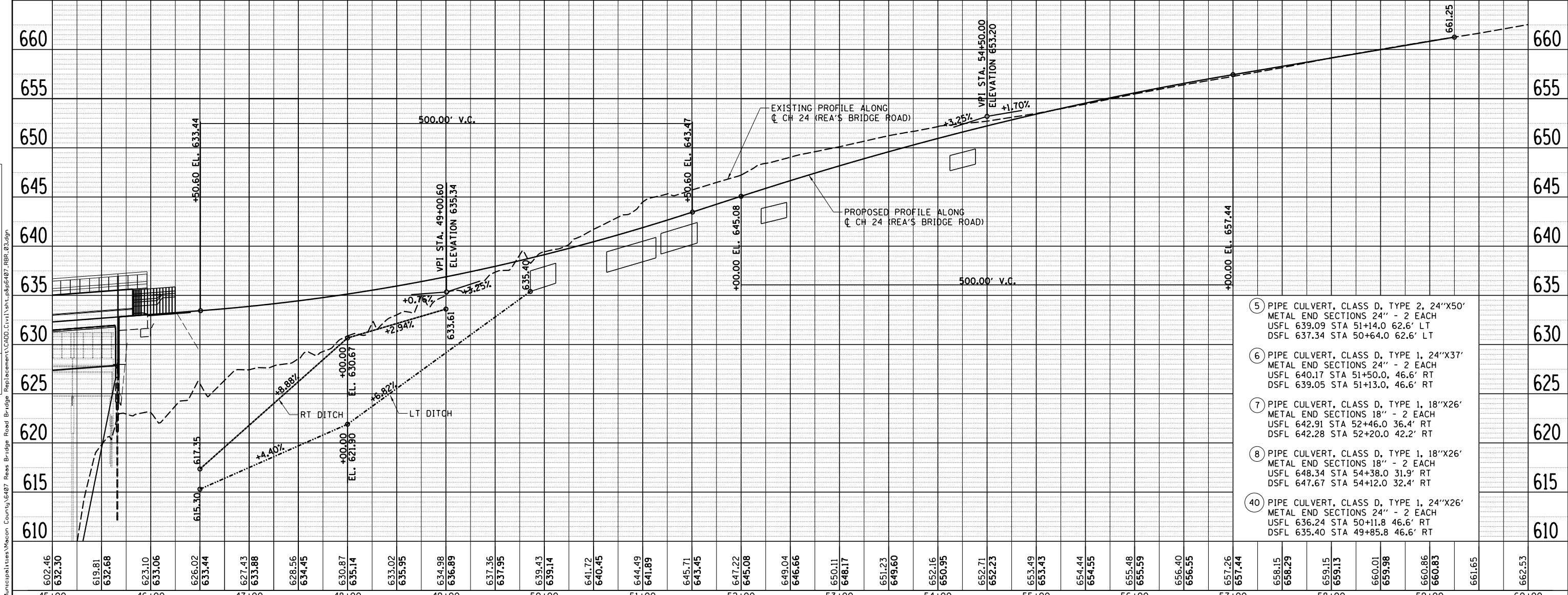


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| PLAN | SURVEYED                    | DATE |
|      | PLOTTED                     |      |
|      | GRADES CHECKED              |      |
|      | ALIGNMENT CHECKED           |      |
|      | STRUCTURE NOTATIONS CHECKED |      |
|      | NO. _____                   |      |
|      | FILE NAME                   |      |

|         |                             |      |
|---------|-----------------------------|------|
| PROFILE | SURVEYED                    | DATE |
|         | PLOTTED                     |      |
|         | GRADES CHECKED              |      |
|         | ALIGNMENT CHECKED           |      |
|         | STRUCTURE NOTATIONS CHECKED |      |
|         | NO. _____                   |      |
|         | FILE NAME                   |      |



ARCHER DANIELS MIDLAND CO. 18-08-33-400-009  
 ARCHER DANIELS MIDLAND CO. 18-08-33-400-004  
 PROP. CURVE PR\_RBR-3  
 PI STA. = 56+87.32 L = 386.17'  
 $\Delta = 2^\circ 45' 57''$  (RT) E = 2.33'  
 $D = 0^\circ 42' 58''$  e = N/A  
 R = 8,000.00' P.C. STA. = 54+94.20  
 T = 193.12' P.T. STA. = 58+80.37  
 C. KAY MACKEY AND ALMA ANDERSON 18-08-33-376-003



- 5) PIPE CULVERT, CLASS D, TYPE 2, 24"X50' METAL END SECTIONS 24" - 2 EACH USFL 639.09 STA 51+14.0 62.6' LT DSFL 637.34 STA 50+64.0 62.6' LT
- 6) PIPE CULVERT, CLASS D, TYPE 1, 24"X37' METAL END SECTIONS 24" - 2 EACH USFL 640.17 STA 51+50.0, 46.6' RT DSFL 639.05 STA 51+13.0, 46.6' RT
- 7) PIPE CULVERT, CLASS D, TYPE 1, 18"X26' METAL END SECTIONS 18" - 2 EACH USFL 642.91 STA 52+46.0 36.4' RT DSFL 642.28 STA 52+20.0 42.2' RT
- 8) PIPE CULVERT, CLASS D, TYPE 1, 18"X26' METAL END SECTIONS 18" - 2 EACH USFL 648.34 STA 54+38.0 31.9' RT DSFL 647.67 STA 54+12.0 32.4' RT
- 40) PIPE CULVERT, CLASS D, TYPE 1, 24"X26' METAL END SECTIONS 24" - 2 EACH USFL 636.24 STA 50+11.8 46.6' RT DSFL 635.40 STA 49+85.8 46.6' RT

|  |  |  |  |  |   |   |   |
|--|--|--|--|--|---|---|---|
| USER NAME = j_buening<br>PLOT SCALE = 100.0000' / in.<br>PLOT DATE = 1/26/2022 | DESIGNED - TES<br>DRAWN - RLK<br>CHECKED - JMB<br>DATE - | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>CHASTAIN &amp; ASSOCIATES LLC</b><br>CONSULTING ENGINEERS | DECATUR (217) 422-8544<br>SCHAUMBURG (773) 714-0050<br>ROCKFORD (815) 489-0050<br>184-001397 | <b>PLAN AND PROFILE</b><br><b>CH 24 (REA'S BRIDGE ROAD)</b> | SCALE: _____<br>SHEET NO. _____ OF _____ SHEETS<br>STA. _____ TO STA. _____ | F.A.U. R.T.E. 7355<br>SECTION 12-00251-00-BR<br>COUNTY MACON<br>COUNTY MACON<br>TOTAL SHEETS 196<br>SHEET NO. 28<br>CONTRACT NO. 95912<br>ILLINOIS FED. AID PROJECT |
|--|--|--|--|--|---|---|---|

FILE NAME = I:\Municipalities\Macon County\427 Reas Bridge Road Bridge Replacement\CADD\Civil\18-08-33-400-009\_RBR\_03.dgn



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| PLAN | SURVEYED | DATE |
|      | PLOTTED  |      |
|      | ALIGNED  |      |
|      | CHECKED  |      |
|      | FILED    |      |
| NO.  | NO.      | NO.  |

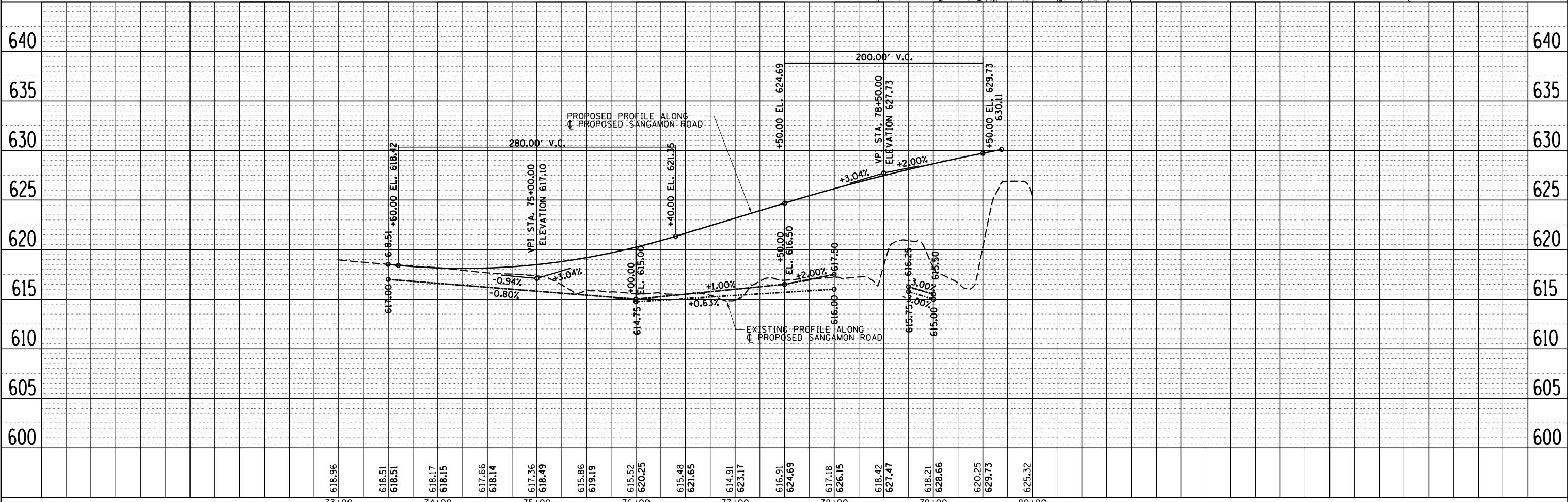
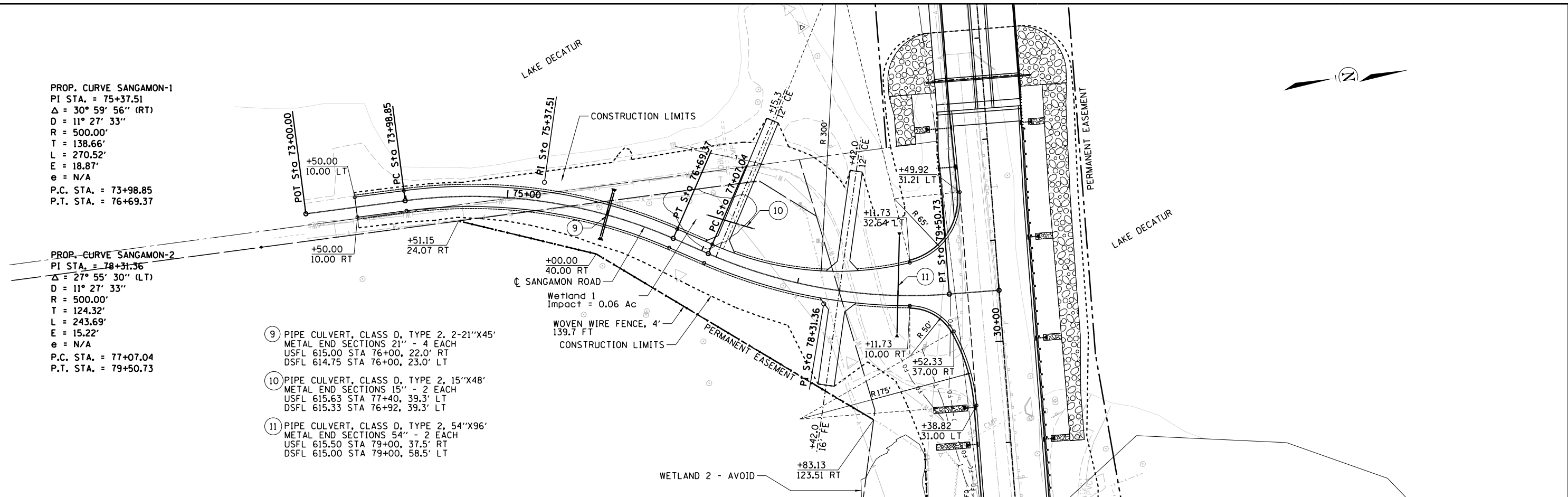
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| PROFILE | SURVEYED  | DATE |
|         | PLOTTED   |      |
|         | GRADES    |      |
|         | CHECKED   |      |
|         | STRUCTURE |      |
|         | NOTATIONS |      |
| NO.     | NO.       | NO.  |

FILE NAME = I:\Municipalities\Macon County\407 Reas Bridge Road Bridge Replacement\CADD\Civil\Int\_LaSp407\_Sang\_01.dgn

PROP. CURVE SANGAMON-1  
 PI STA. = 75+37.51  
 $\Delta = 30^\circ 59' 56''$  (RT)  
 D = 111' 27" 33"  
 R = 500.00'  
 T = 138.66'  
 L = 270.52'  
 E = 18.87'  
 e = N/A  
 P.C. STA. = 73+98.85  
 P.T. STA. = 76+69.37

PROP. CURVE SANGAMON-2  
 PI STA. = 78+31.36  
 $\Delta = 27^\circ 55' 30''$  (LT)  
 D = 111' 27" 33"  
 R = 500.00'  
 T = 124.32'  
 L = 243.69'  
 E = 15.22'  
 e = N/A  
 P.C. STA. = 77+07.04  
 P.T. STA. = 79+50.73

- 9 PIPE CULVERT, CLASS D, TYPE 2, 2'-21"X45'  
 METAL END SECTIONS 21" - 4 EACH  
 USFL 615.00 STA 76+00, 22.0' RT  
 DSFL 614.75 STA 76+00, 23.0' LT
- 10 PIPE CULVERT, CLASS D, TYPE 2, 15"X48"  
 METAL END SECTIONS 15" - 2 EACH  
 USFL 615.63 STA 77+40, 39.3' LT  
 DSFL 615.33 STA 76+92, 39.3' LT
- 11 PIPE CULVERT, CLASS D, TYPE 2, 54"X96"  
 METAL END SECTIONS 54" - 2 EACH  
 USFL 615.50 STA 79+00, 37.5' RT  
 DSFL 615.00 STA 79+00, 58.5' LT



USER NAME = jbuening  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 1/26/2022

DESIGNED - TES  
 DRAWN - RLK  
 CHECKED - JMB  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 492-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PLAN AND PROFILE SANGAMON ROAD**  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|                           | 12-00251-00-BR | MACON  | 196          | 29        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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|             |              |              |              |              |                       |                       |              |              |              |              |
|-------------|--------------|--------------|--------------|--------------|-----------------------|-----------------------|--------------|--------------|--------------|--------------|
| STRUC. NO.  | 1            | 2            | 3            | 4            | 5                     | 6                     | 7            | 8            | 9            | 10           |
| TYPE        | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A            | INLET TY A            | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A   |
| FRAME & LID | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G          | TYPE 3 F & G          | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G |
| STATION     | 27+10.00     | 27+10.00     | 28+00.00     | 28+00.00     | 29+00.00              | 29+00.00              | 29+37.00     | 30+00.00     | 31+00.00     | 31+75.00     |
| OFFSET      | 32.7' LT     | 32.7' RT     | 32.7' LT     | 32.7' RT     | 32.7' LT              | 32.7' RT              | 32.7' LT     | 32.7' RT     | 32.7' RT     | 32.95' LT    |
| RIM ELEV.   | 631.66       | 631.66       | 631.17       | 631.17       | 630.67                | 630.67                | 630.49       | 630.17       | 629.67       | 629.30       |
| T. O. M.    | 630.83       | 630.83       | 630.34       | 630.34       | 629.84                | 629.84                | 629.66       | 629.34       | 628.84       | 628.47       |
| NORTH INV.  |              | 628.00       |              | 627.51       |                       | 627.01                |              | 626.51       | 626.01       |              |
| SOUTH INV.  | 628.00       |              |              |              | 627.01                |                       | 626.83       |              |              | 625.64       |
| EAST INV.   |              |              |              |              |                       |                       |              |              |              |              |
| WEST INV.   |              |              |              |              |                       |                       |              |              |              |              |
| PIPE NO.    | 12           | 13           | 14           | 15           | 16                    | 17                    | 18           | 19           | 20           | 21           |
| SIZE        | 12           | 12           | 12           | 12           | 12                    | 12                    | 12           | 12           | 12           | 12           |
| LENGTH      | 7.5          | 6.2          | 7.5          | 6.2          | 7.5                   | 6.2                   | 7.5          | 6.2          | 6.2          | 20           |
| TYPE        | 1            | 1            | 1            | 1            | 1                     | 1                     | 1            | 1            | 1            | 1            |
| STRUC. NO.  | 11           | 12           | 13           | 14           | 15                    | 16                    | 17           | 18           | 19           | 20           |
| TYPE        | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A   | MANHOLE TY A, 4' DIA. | MANHOLE TY A, 4' DIA. | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A   |
| FRAME & LID | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G          | TYPE 3 F & G          | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G |
| STATION     | 32+13.75     | 32+13.75     | 36+00.00     | 36+00.00     | 37+40.00              | 37+40.00              | 38+75.00     | 38+75.00     | 39+75.00     | 39+75.00     |
| OFFSET      | 34.6' LT     | 34.6' RT     | 34.7' LT     | 34.7' RT     | 34.7' LT              | 34.7' RT              | 34.7' LT     | 34.7' RT     | 34.7' LT     | 34.7' RT     |
| RIM ELEV.   | 629.25       | 629.25       | 627.24       | 627.24       | 627.03                | 627.03                | 627.23       | 627.23       | 627.62       | 627.62       |
| T. O. M.    | 628.38       | 628.38       | 626.41       | 626.41       | 626.20                | 626.20                | 626.40       | 626.40       | 626.79       | 626.79       |
| NORTH INV.  |              | 625.55       |              |              |                       | 621.25                |              |              |              |              |
| SOUTH INV.  | 625.55       |              |              |              | 621.25                |                       |              |              |              |              |
| EAST INV.   |              |              |              |              | 622.18                | 622.18                | 622.17       | 622.17       | 622.87       | 622.87       |
| WEST INV.   |              |              | 623.58       | 623.58       | 621.35                | 621.35                | 622.27       | 622.27       | 622.97       | 622.97       |
| PIPE NO.    | 22           | 23           | 24           | 25           | 26                    | 27                    | 28           | 29           | 30           | 31           |
| SIZE        | 12           | 12           | 12           | 12           | 12                    | 12                    | 12           | 12           | 12           | 12           |
| LENGTH      | 23.2         | 7.4          | 134          | 135.5        | 23                    | 9.5                   | 134          | 135.5        | 97.5         | 99           |
| TYPE        | 1            | 1            | 1            | 1            | 1                     | 1                     | 1            | 1            | 1            | 1            |
| STRUC. NO.  | 21           | 22           | 23           | 24           | 25                    | 26                    | 27           | 28           |              |              |
| TYPE        | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A   | INLET TY A            | INLET TY A            | INLET TY A   | INLET TY A   |              |              |
| FRAME & LID | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G | TYPE 3 F & G          | TYPE 3 F & G          | TYPE 3 F & G | TYPE 3 F & G |              |              |
| STATION     | 40+75.00     | 40+75.00     | 46+36.00     | 46+36.00     | 47+75.00              | 47+75.00              | 49+50.00     | 49+50.00     |              |              |
| OFFSET      | 34.7' LT     | 34.7' RT     | 34.7' LT     | 34.7' RT     | 32.7' LT              | 32.7' RT              | 32.7' LT     | 32.7' RT     |              |              |
| RIM ELEV.   | 628.23       | 628.23       | 632.48       | 632.48       | 633.97                | 633.97                | 637.14       | 637.14       |              |              |
| T. O. M.    | 627.40       | 627.40       | 631.65       | 631.65       | 633.14                | 633.14                | 636.31       | 636.31       |              |              |
| NORTH INV.  |              |              |              | 628.82       | 628.82                | 630.31                | 630.31       | 633.48       |              |              |
| SOUTH INV.  |              |              |              |              |                       |                       |              |              |              |              |
| EAST INV.   | 624.57       | 624.57       |              |              |                       |                       |              |              |              |              |
| WEST INV.   |              |              |              |              |                       |                       |              |              |              |              |
| PIPE NO.    | 32           | 33           | 34           | 35           | 36                    | 37                    | 38           | 39           |              |              |
| SIZE        | 12           | 12           | 12           | 12           | 12                    | 12                    | 12           | 12           |              |              |
| LENGTH      | 97.5         | 99           | 20.1         | 6.3          | 20                    | 12.5                  | 22.1         | 3.4          |              |              |
| TYPE        | 1            | 1            | 1            | 1            | 1                     | 1                     | 1            | 1            |              |              |

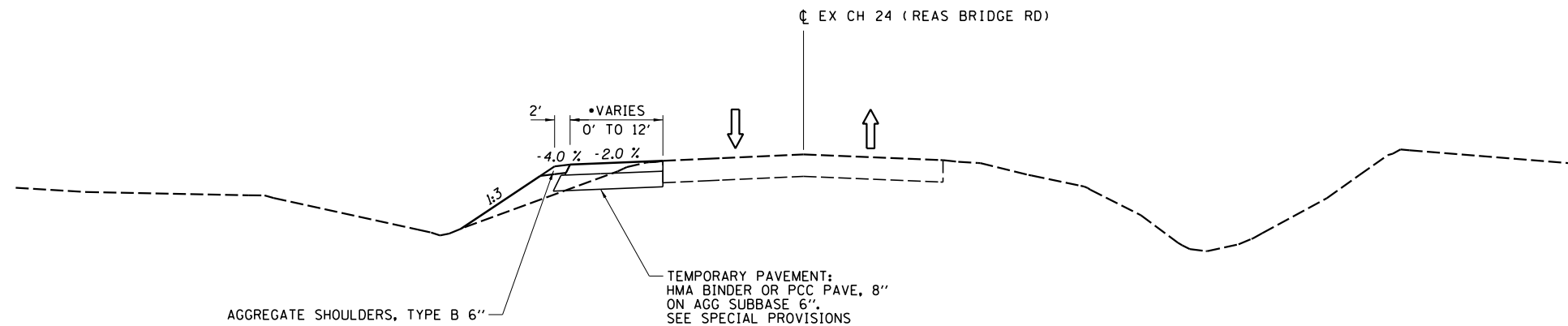
|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

|                                 |           |           |              |
|---------------------------------|-----------|-----------|--------------|
| <b>STORM SEWER NOTES</b>        |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |           |           |              |
| SCALE:                          | SHEET NO. | OF SHEETS | STA. TO STA. |

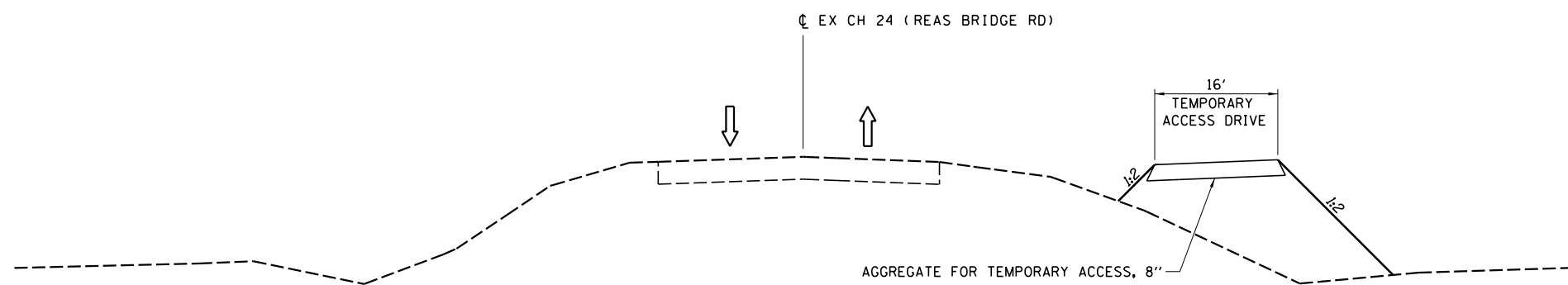
|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 30        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**REAS BRIDGE ROAD – TEMPORARY WIDENING**

STA 49+50 TO STA 60+85

\*VARIES: 0' TO 12' STA 49+50 TO 50+95  
 12' STA 50+95 TO 59+25  
 12' TO 0' STA 59+25 TO 60+85



**TEMPORARY ACCESS DRIVE**

STA 19+10 TO STA 25+00

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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PRE STAGE 1 TYPICAL SECTIONS  
 CH 24 (REAS BRIDGE ROAD)**

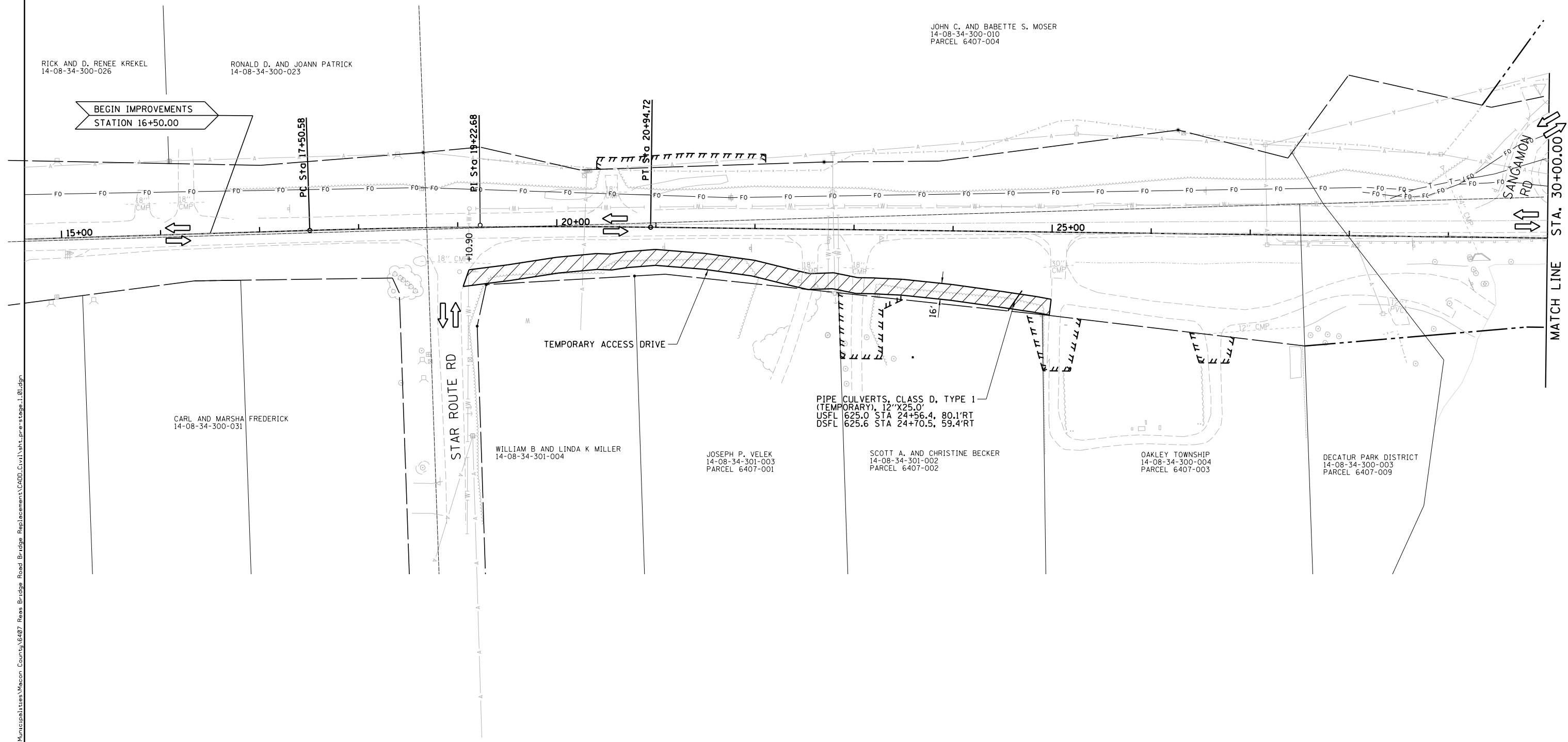
SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 31        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**PRE-STAGE 1**

CONSTRUCT TEMPORARY ACCESS DRIVE (16')

TRAFFIC ON EXISTING REAS BRIDGE ROAD



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

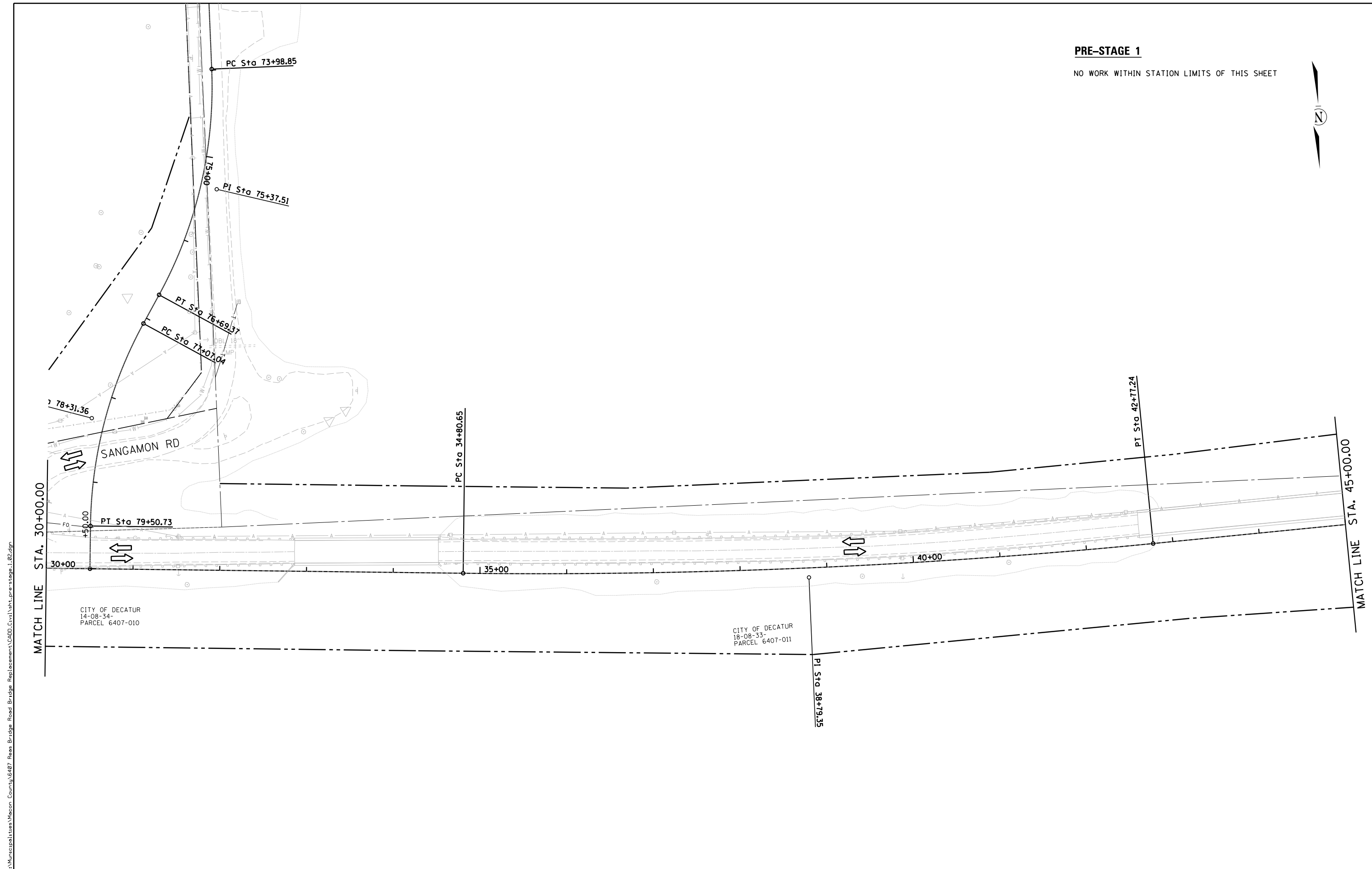
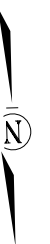
**PRE STAGE 1 CONSTRUCTION  
CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. 15+00 TO STA. 30+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 32        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**PRE-STAGE 1**

NO WORK WITHIN STATION LIMITS OF THIS SHEET



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PRE STAGE 1 CONSTRUCTION**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50'    SHEET NO. 3 OF 4 SHEETS    STA. 30+00 TO STA. 45+00

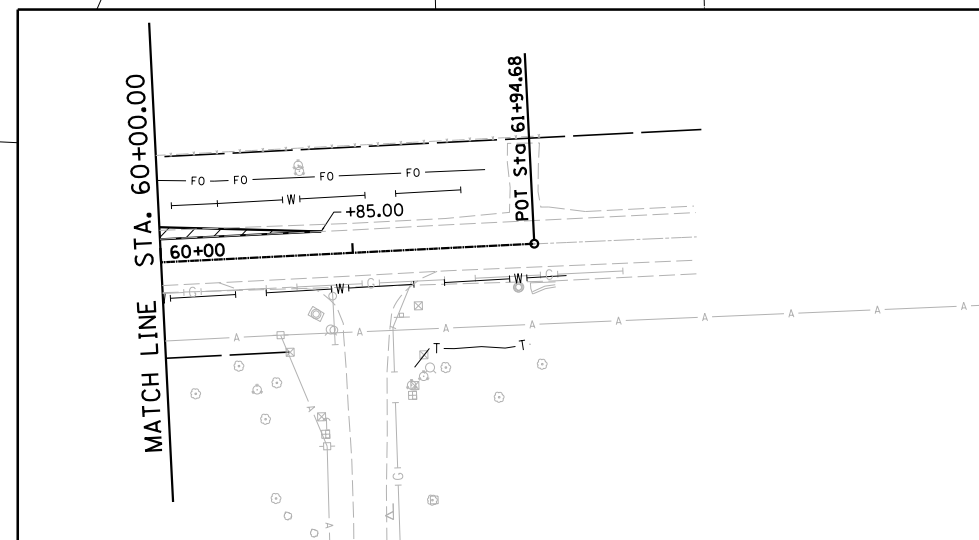
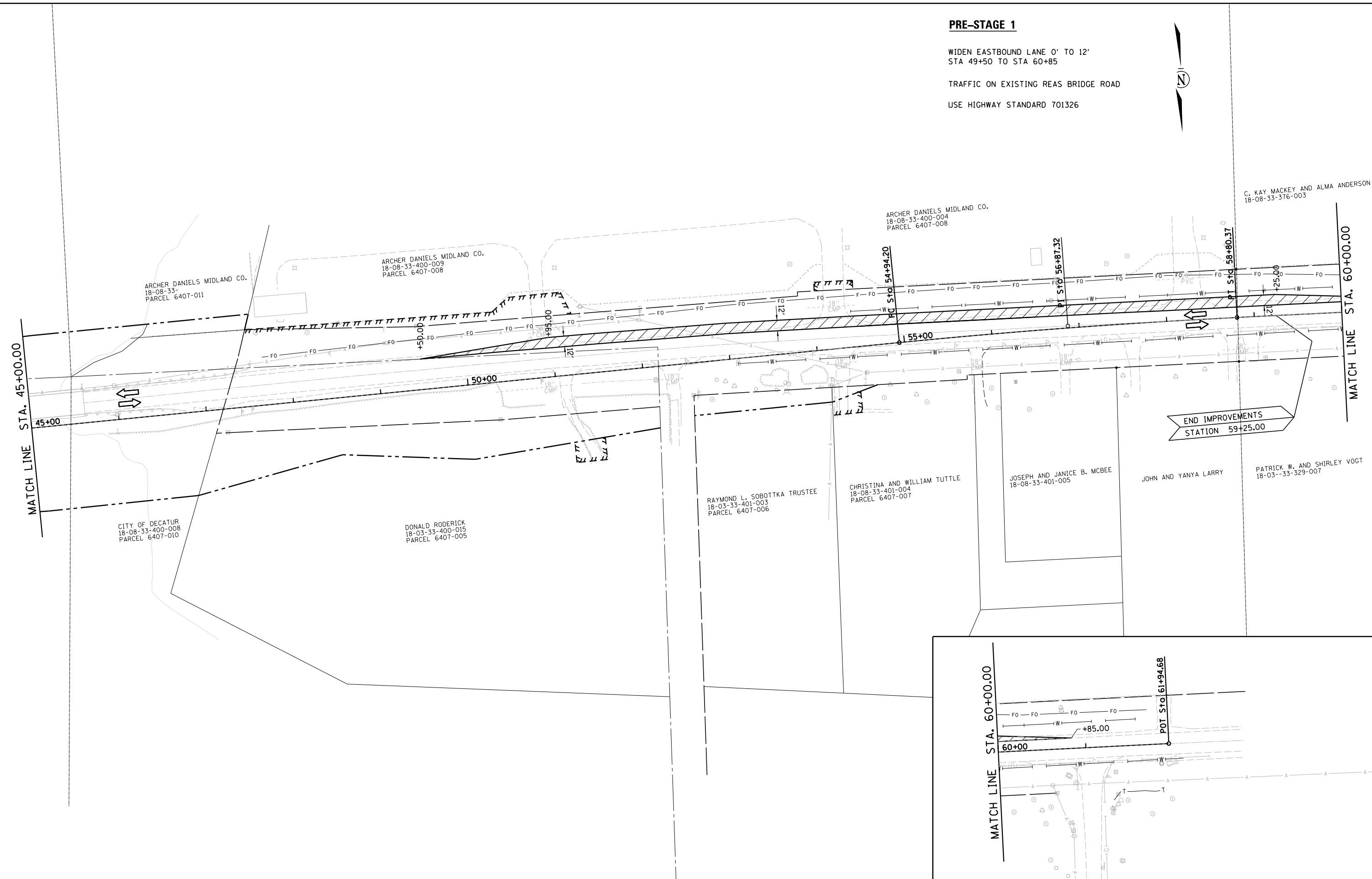
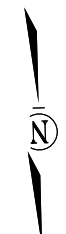
| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 33        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**PRE-STAGE 1**

WIDEN EASTBOUND LANE 0' TO 12'  
STA 49+50 TO STA 60+85

TRAFFIC ON EXISTING REAS BRIDGE ROAD

USE HIGHWAY STANDARD 701326



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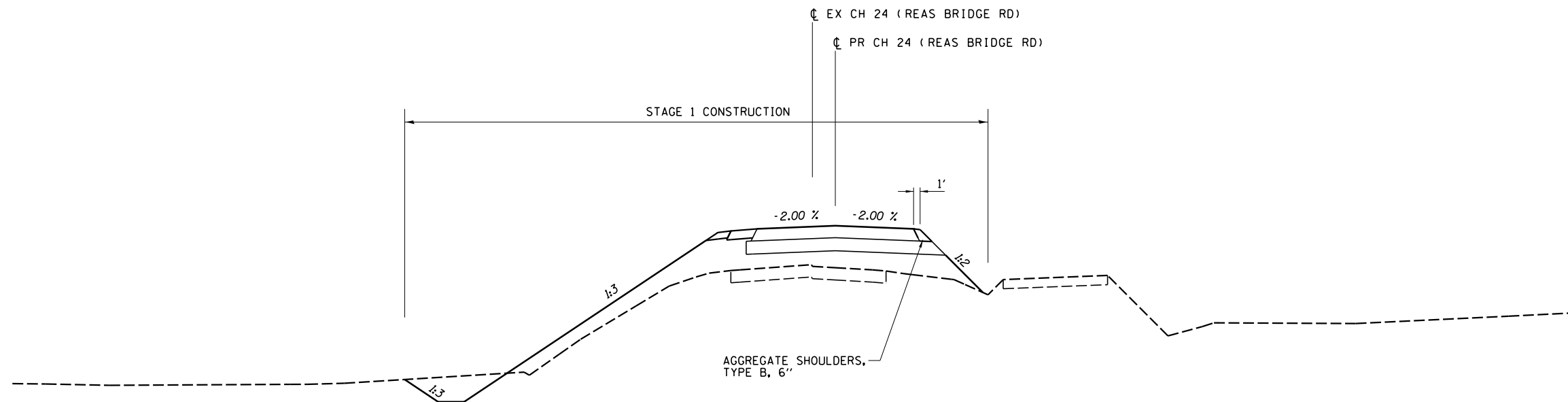
|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

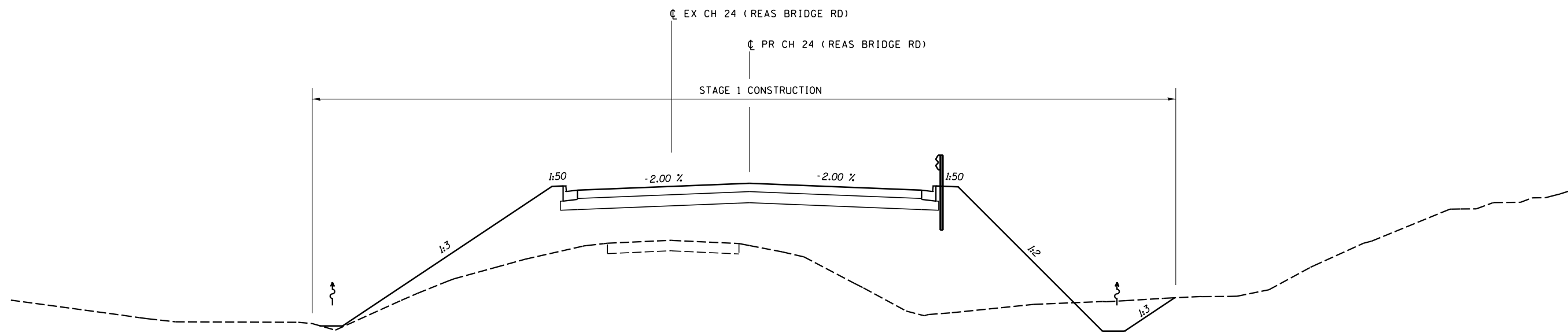
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**PRE STAGE 1 CONSTRUCTION**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. 45+00 TO STA. 60+50

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 34        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**REAS BRIDGE ROAD**  
STA 19+50 TO STA 26+00



**REAS BRIDGE ROAD**  
STA 26+00 TO STA 29+00

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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

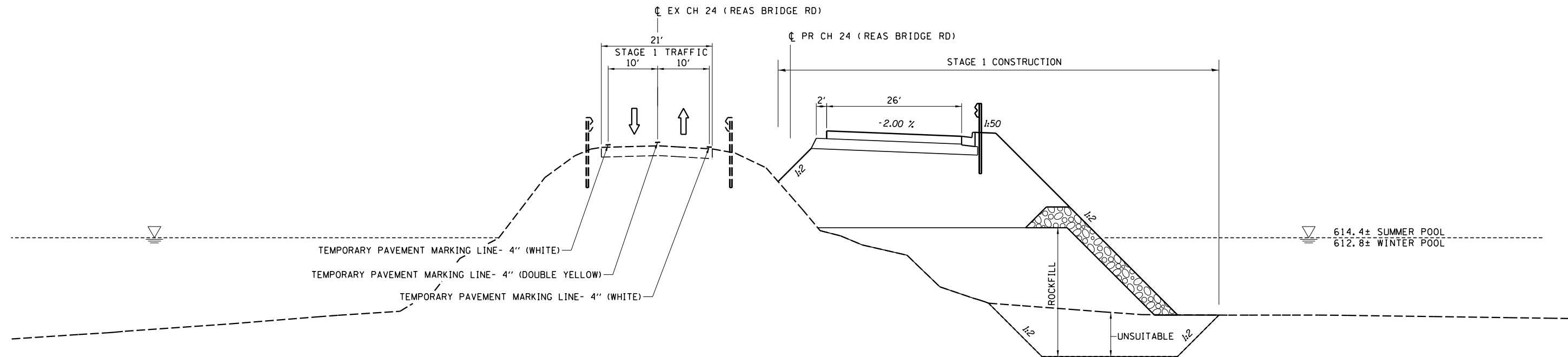
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**STAGE 1 TYPICAL SECTIONS  
CH 24 (REAS BRIDGE ROAD)**

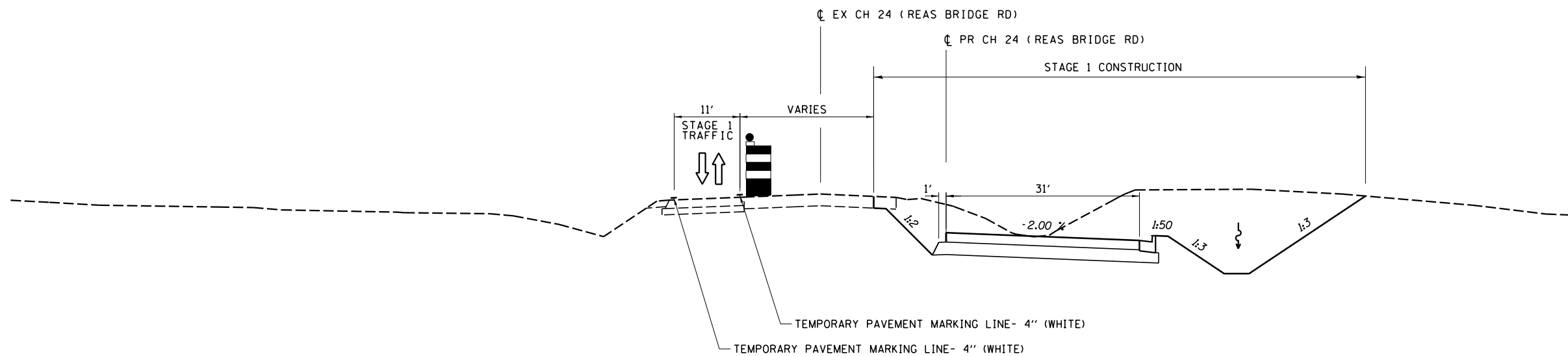
SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 35        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT



**REAS BRIDGE ROAD**  
STA 29+00 TO STA 49+00



**REAS BRIDGE ROAD**  
STA 49+00 TO STA 52+00

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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

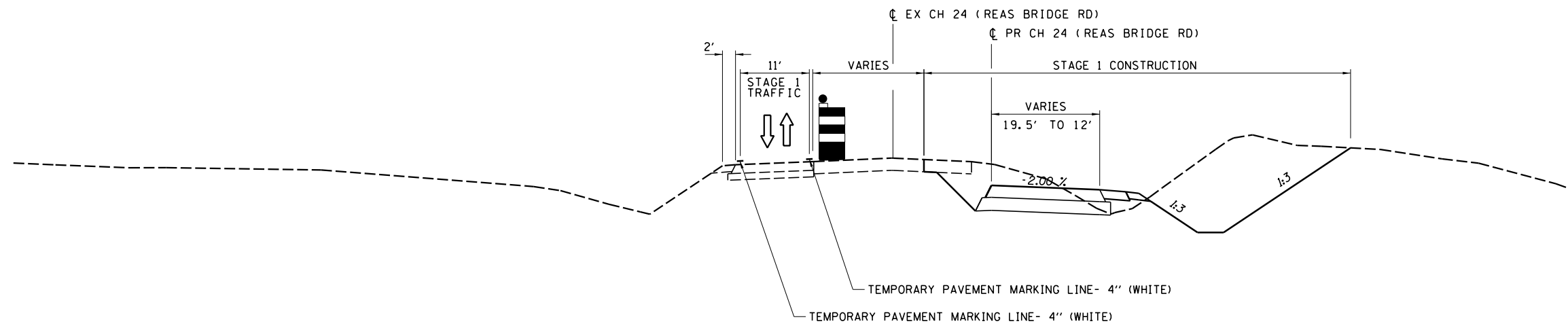
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**STAGE 1 TYPICAL SECTIONS  
CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 36        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |





**REAS BRIDGE ROAD**  
STA 52+00 TO STA 59+25

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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**STAGE 1 TYPICAL SECTIONS  
CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 37        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 1**

INSTALL TEMPORARY CULVERT UNDER SANGAMON ROAD PRIOR TO CLOSURE OF REAS BRIDGE ROAD.

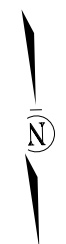
REAS BRIDGE ROAD CLOSED FROM STA 19+50 TO 29+50.

CONSTRUCT EB & WB REAS BRIDGE ROAD STA 16+50 TO 29+00, EXCEPT RIGHT SHOULDERS AND RIGHT ENTRANCES BETWEEN STA 19+50 TO STA 26+00. END EB PAVEMENT CONSTRUCTION AT STA 29+00. CONTINUE WB PAVEMENT BEYOND STA 29+00 TO WEST.

MINIMIZE LENGTH OF CLOSURE OF STAR ROUTE ROAD BY CONSTRUCTING EMBANKMENT WEST OF INTERSECTION FIRST. UTILIZE TEMP CLOSURES AT THE STAR RT RD INTERSECTION.

USE HIGHWAY STANDARD BLR 22.

TEMPORARY ACCESS DRIVE IS ONLY FOR ACCESS TO ENTRANCES DURING REAS BRIDGE ROAD CLOSURE AND NOT INTENDED FOR THRU TRAFFIC. ACCESS DRIVE SHALL BE MAINTAINED AT ALL TIMES FOR WASHOUTS AND EROSION.



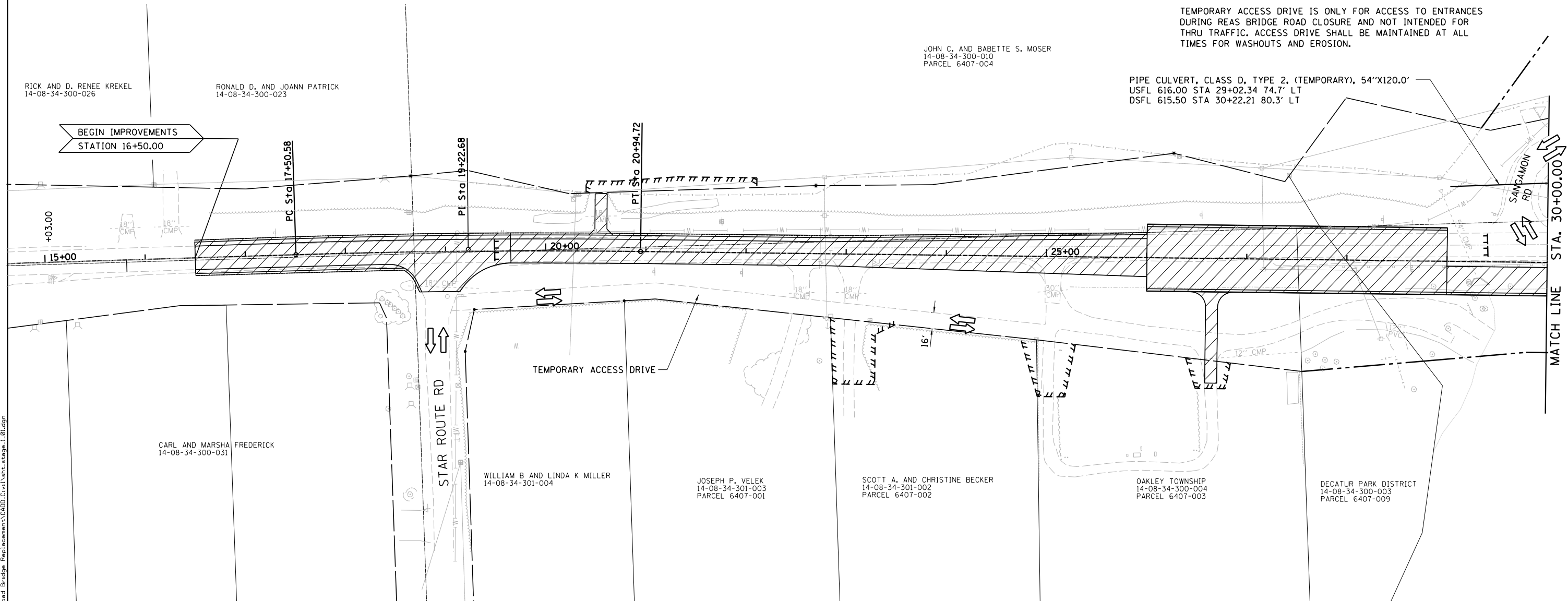
JOHN C. AND BABETTE S. MOSER  
14-08-34-300-010  
PARCEL 6407-004

PIPE CULVERT, CLASS D, TYPE 2, (TEMPORARY), 54"X120.0'  
USFL 616.00 STA 29+02.34 74.7' LT  
DSFL 615.50 STA 30+22.21 80.3' LT

RICK AND D. RENEE KREKEL  
14-08-34-300-026

RONALD D. AND JOANN PATRICK  
14-08-34-300-023

BEGIN IMPROVEMENTS  
STATION 16+50.00



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CARL AND MARSHA FREDERICK  
14-08-34-300-031

WILLIAM B AND LINDA K MILLER  
14-08-34-301-004

JOSEPH P. VELEK  
14-08-34-301-003  
PARCEL 6407-001

SCOTT A. AND CHRISTINE BECKER  
14-08-34-301-002  
PARCEL 6407-002

OAKLEY TOWNSHIP  
14-08-34-300-004  
PARCEL 6407-003

DECATUR PARK DISTRICT  
14-08-34-300-003  
PARCEL 6407-009

|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**STAGE 1 CONSTRUCTION  
CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 15+00 TO STA. 30+00

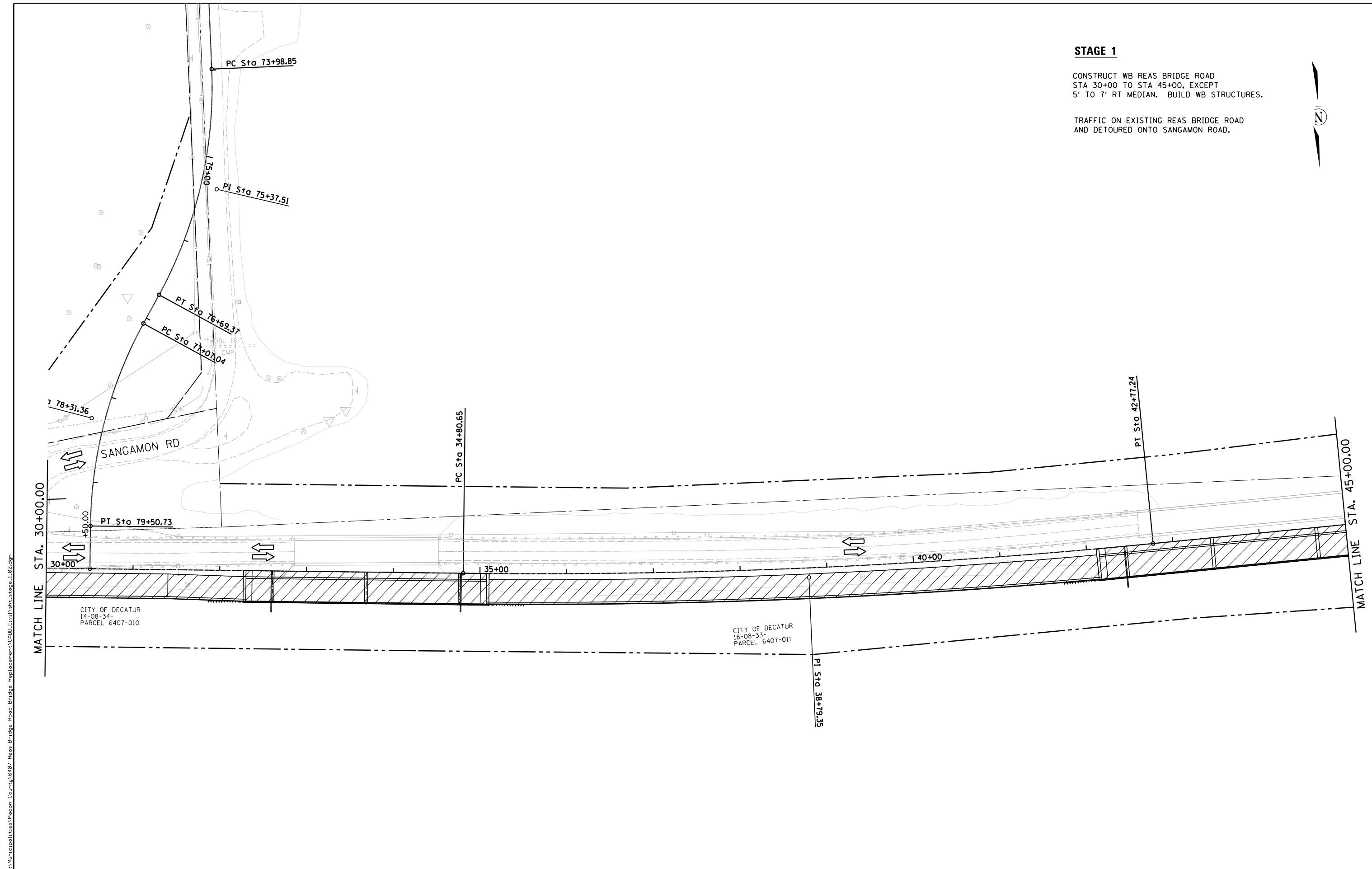
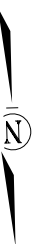
| F.A.U. RTE         | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196          | 38        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

**STAGE 1**

CONSTRUCT WB REAS BRIDGE ROAD  
 STA 30+00 TO STA 45+00, EXCEPT  
 5' TO 7' RT MEDIAN. BUILD WB STRUCTURES.

TRAFFIC ON EXISTING REAS BRIDGE ROAD  
 AND DETOURED ONTO SANGAMON ROAD.



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**STAGE 1 CONSTRUCTION  
 CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 30+00 TO STA. 45+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 39        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 1**

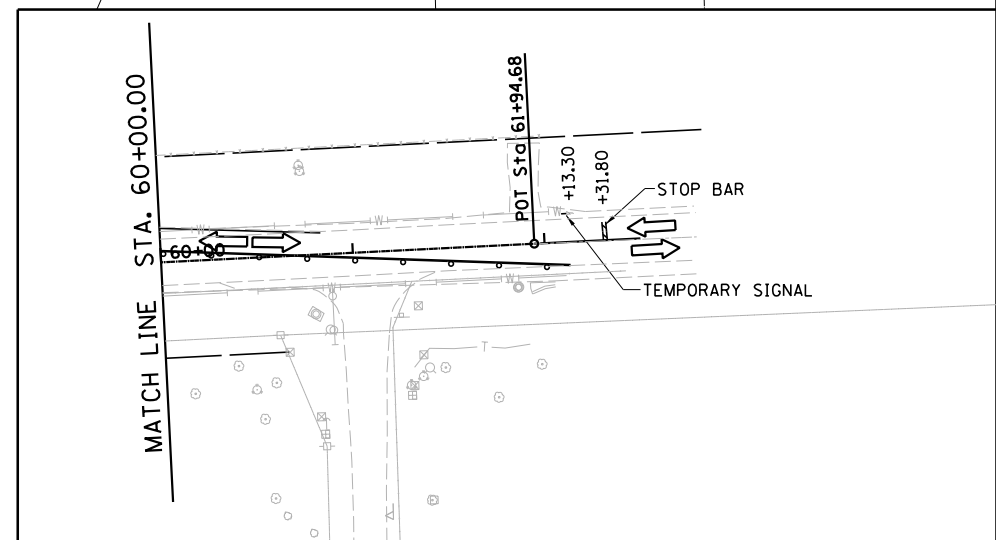
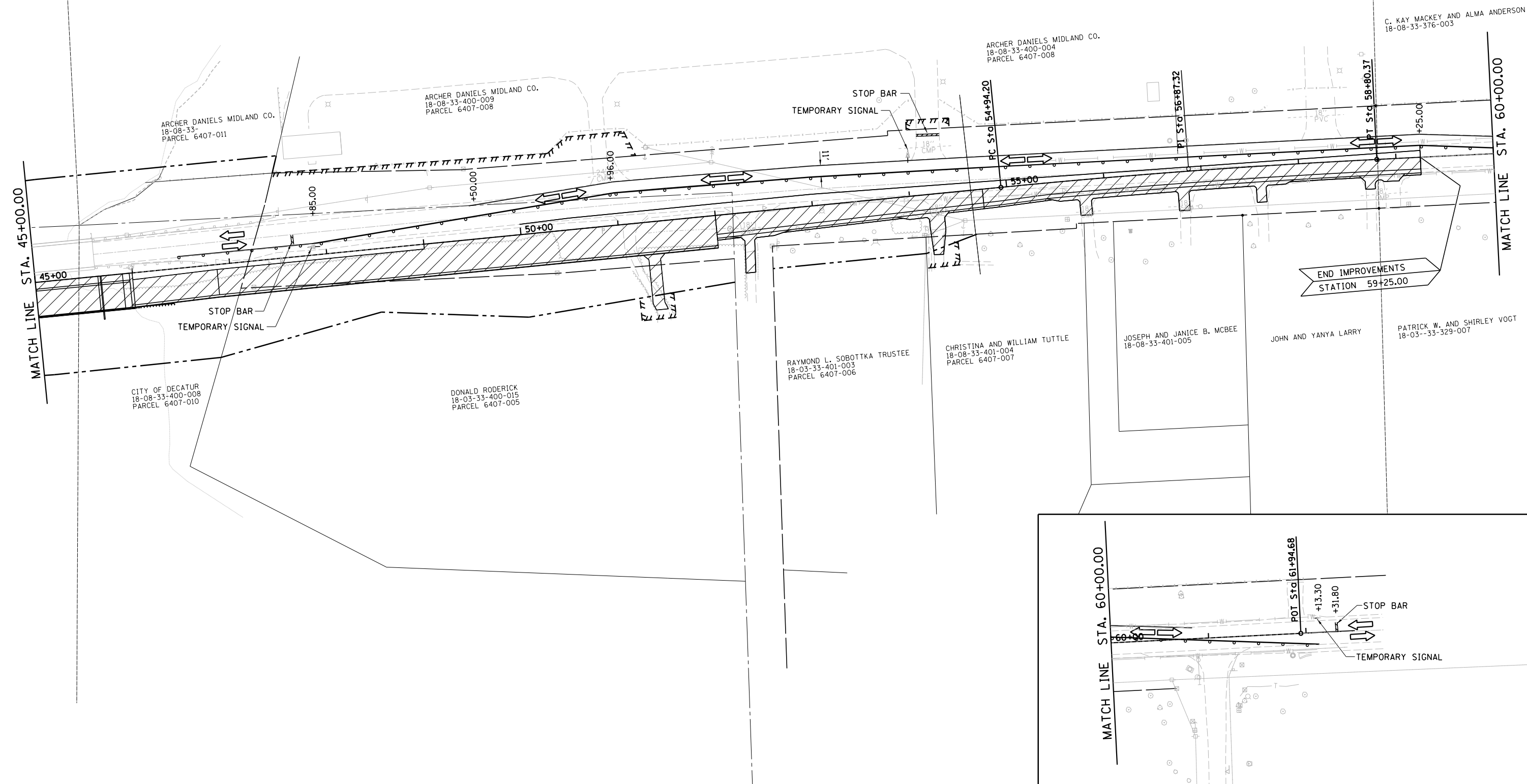
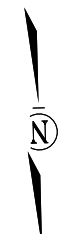
CONSTRUCT WB REAS BRIDGE ROAD  
 STA 45+00 TO 54+75, EXCEPT 7'  
 MEDIAN STA 46+00 TO STA 49+00.

INSTALL TEMP SIGNALS AT STA 47+85 AND 57+90  
 AND BEGIN TAPER TO ONE LANE ONTO WIDENED WB  
 PAVEMENT PERFORMED IN PRE-STAGE 1.

INSTALL TEMP SIGNALS AT MIDDLE ADM ENTRANCE  
 OR AS OTHERWISE INSTRUCTED BY ADM REPRESENTATIVES.

TRAFFIC ON EXISTING REAS BRIDGE ROAD

USE HIGHWAY STANDARD 701326



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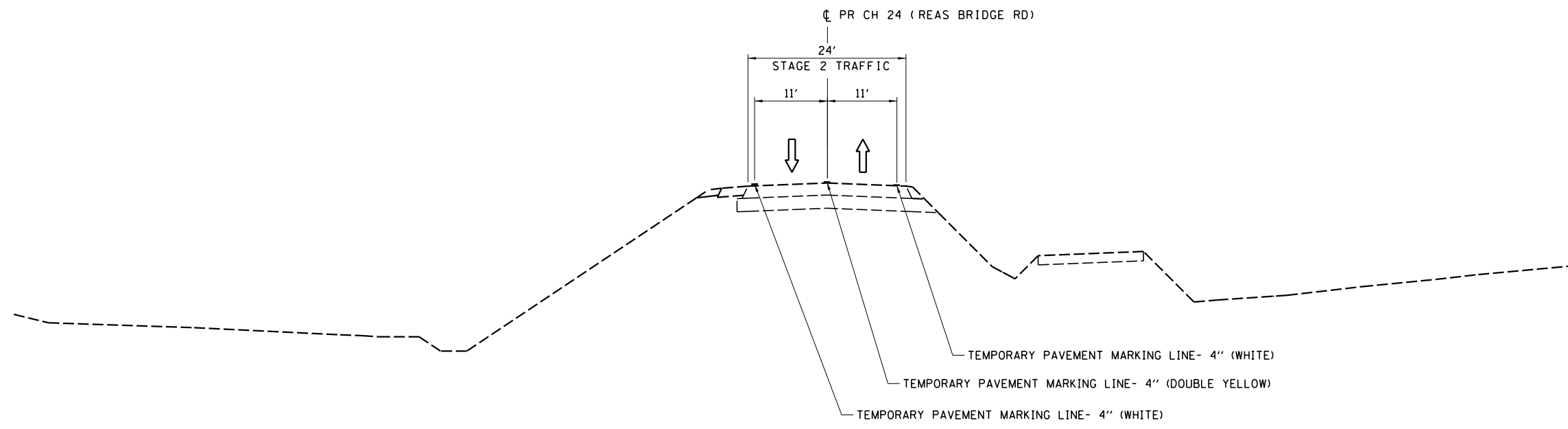
|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

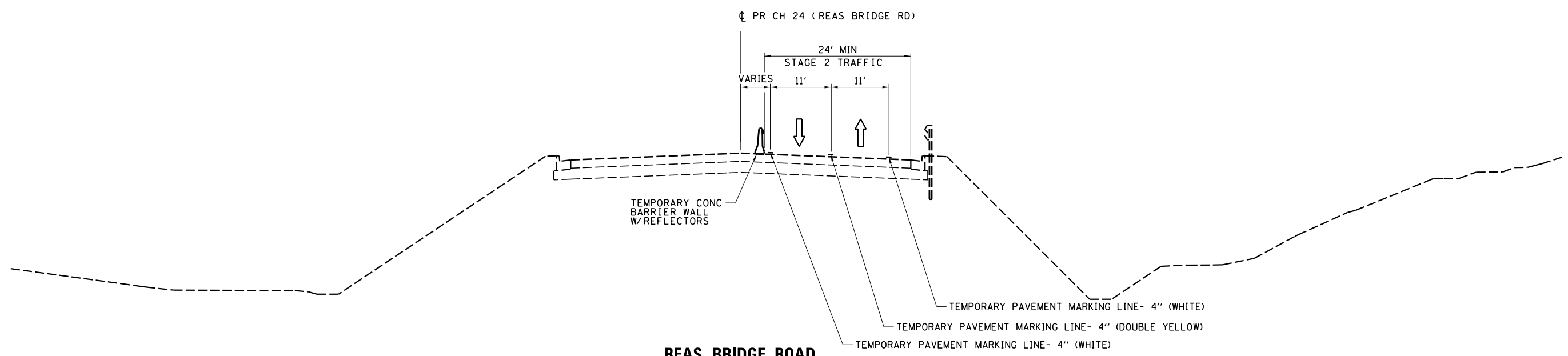
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**STAGE 1 CONSTRUCTION**  
**CH 24 (REAS BRIDGE ROAD)**  
 SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. 45+00 TO STA. 60+50

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 40        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**REAS BRIDGE ROAD**  
STA 19+50 TO STA 26+00



**REAS BRIDGE ROAD**  
STA 26+00 TO STA 29+00

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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

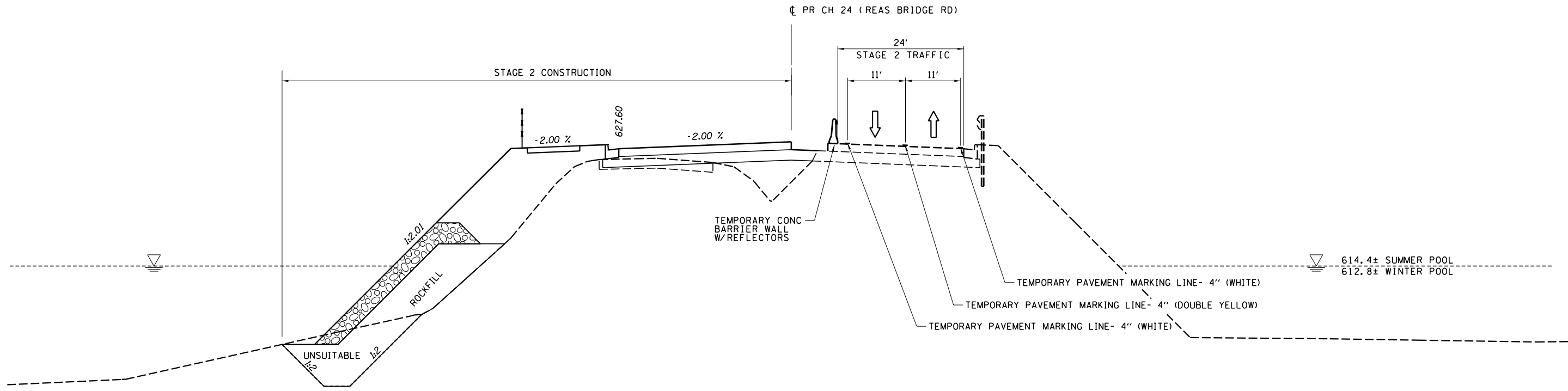
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

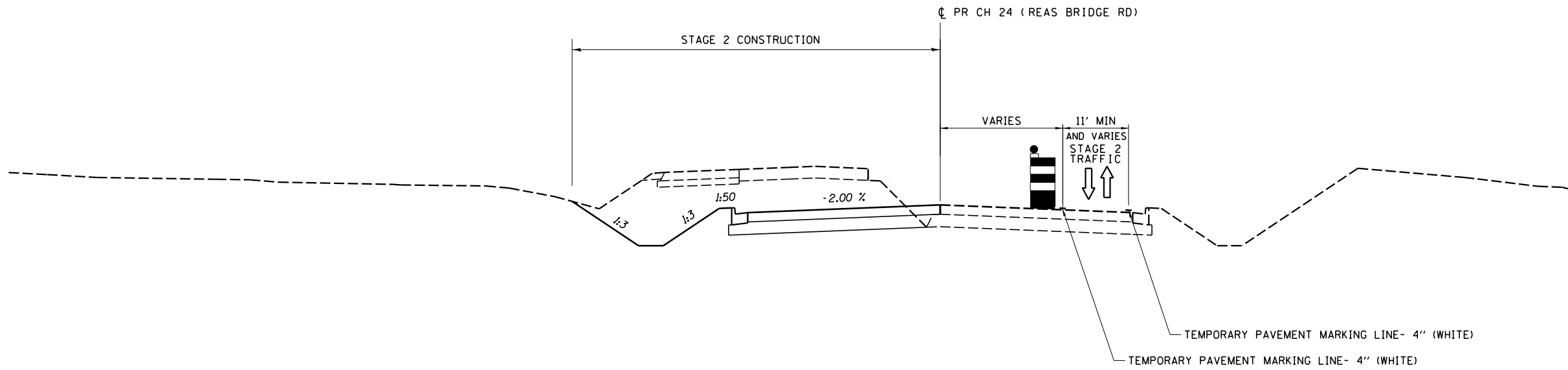
**STAGE 2 TYPICAL SECTIONS**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 41        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**REAS BRIDGE ROAD**  
STA 29+00 TO STA 49+00



**REAS BRIDGE ROAD**  
STA 49+00 TO STA 52+00

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

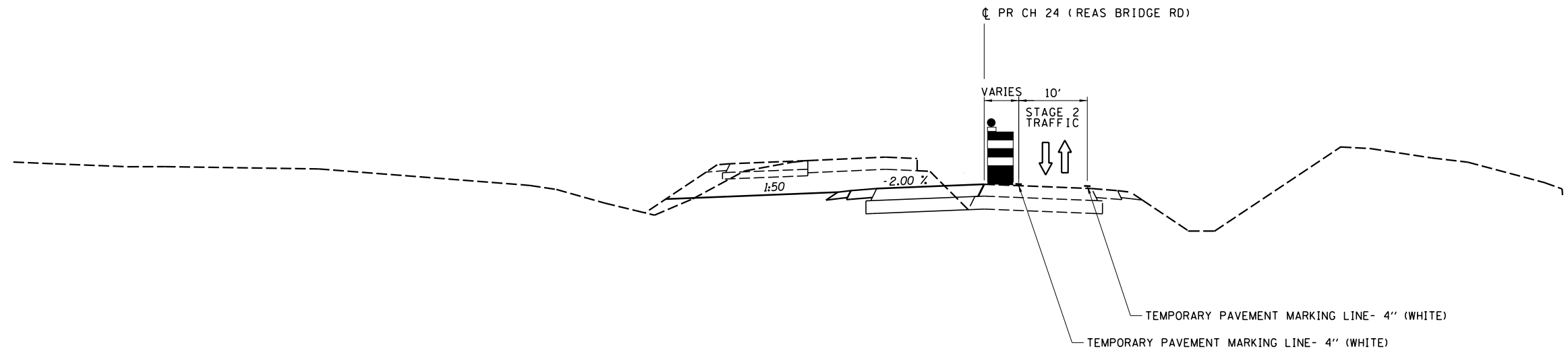
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**STAGE 2 TYPICAL SECTIONS**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 42        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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**REAS BRIDGE ROAD**  
STA 52+00 TO STA 59+25

|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

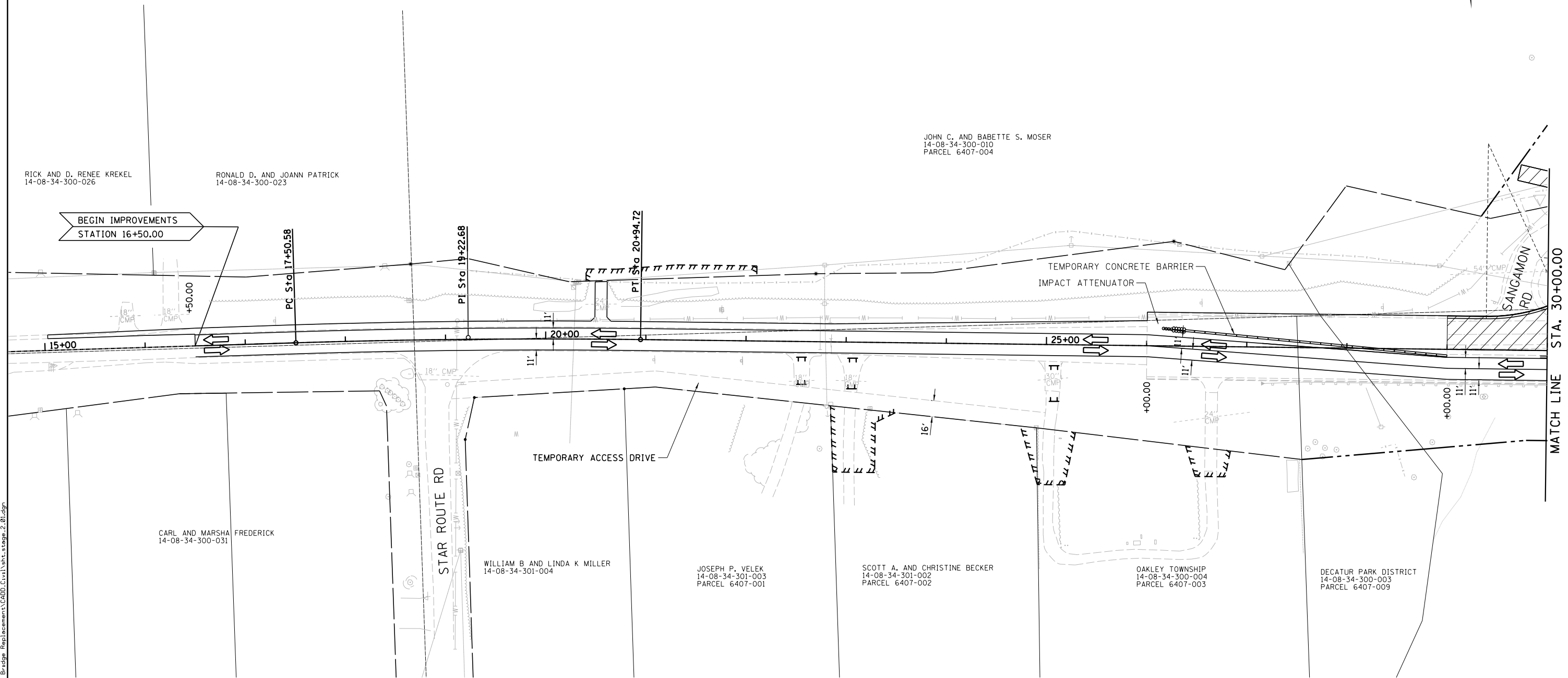
**STAGE 2 TYPICAL SECTIONS**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 43        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 2**

CONSTRUCT EB REAS BRIDGE ROAD  
 STA 29+00 TO STA 30+00.  
 TRAFFIC ON EXISTING REAS BRIDGE ROAD  
 CONSTRUCTED IN STAGE 1.



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

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**STAGE 2 CONSTRUCTION  
 CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 15+00 TO STA. 30+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 44        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

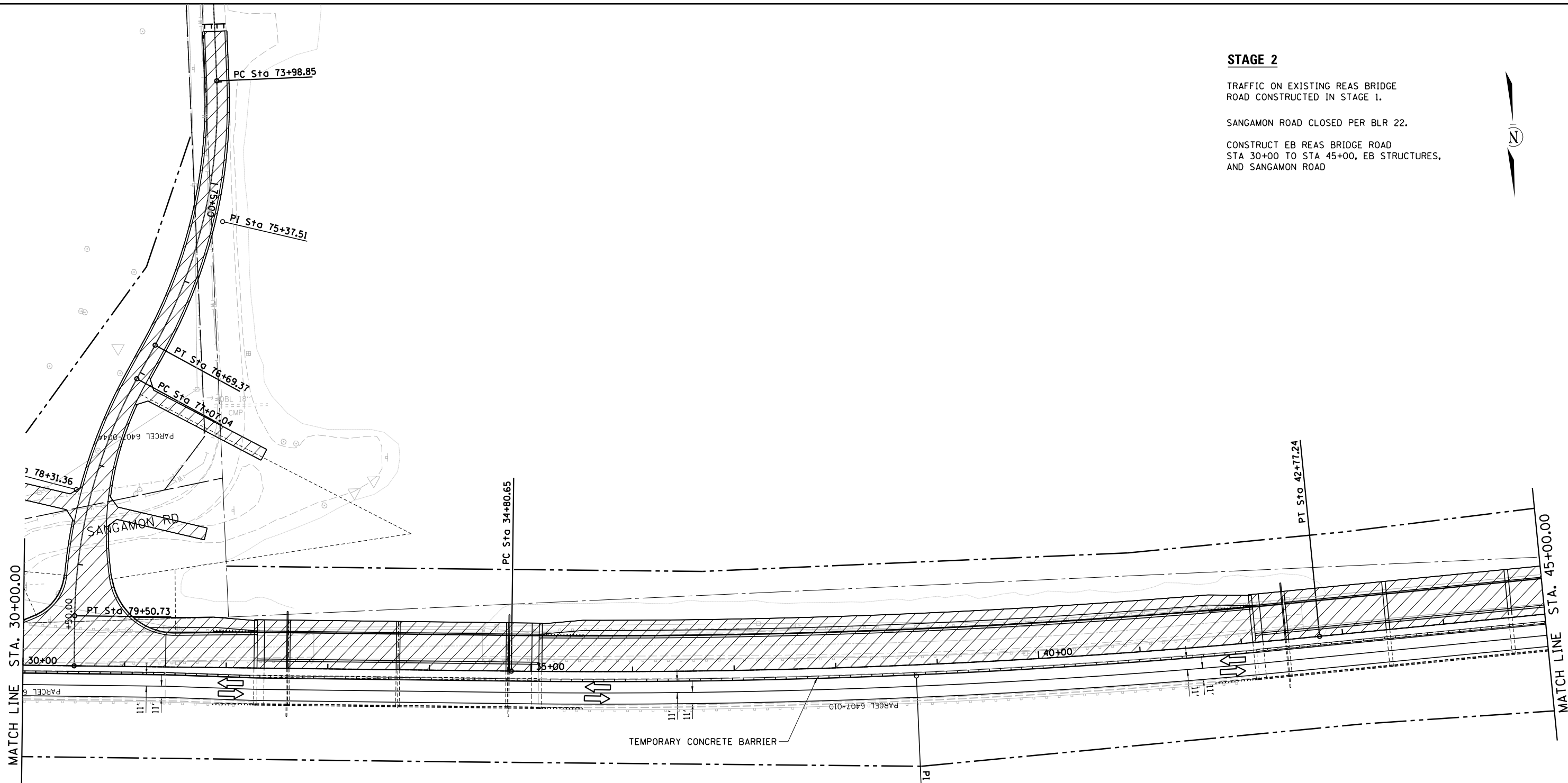


**STAGE 2**

TRAFFIC ON EXISTING REAS BRIDGE ROAD  
ROAD CONSTRUCTED IN STAGE 1.

SANGAMON ROAD CLOSED PER BLR 22.

CONSTRUCT EB REAS BRIDGE ROAD  
STA 30+00 TO STA 45+00, EB STRUCTURES,  
AND SANGAMON ROAD



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|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

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**STAGE 2 CONSTRUCTION  
CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 30+00 TO STA. 45+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 45        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

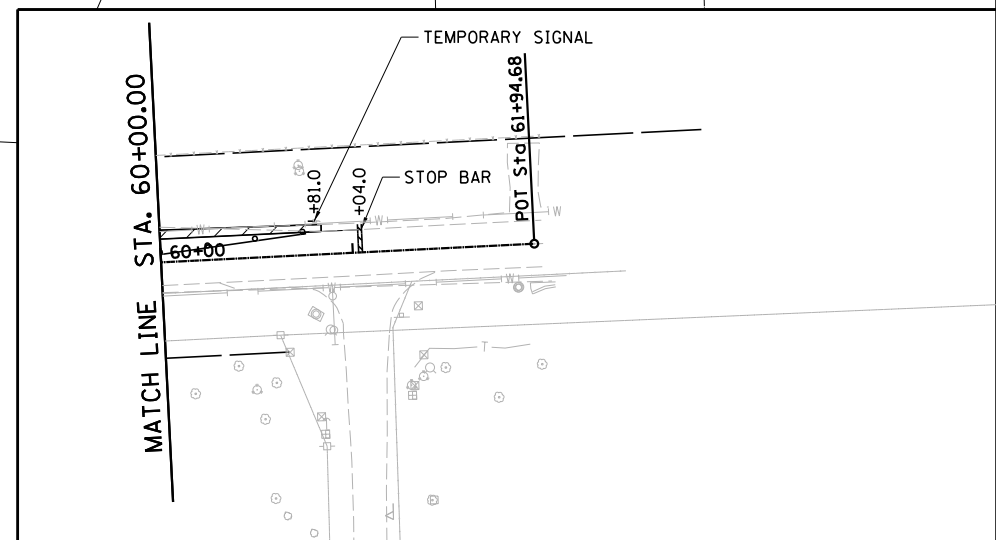
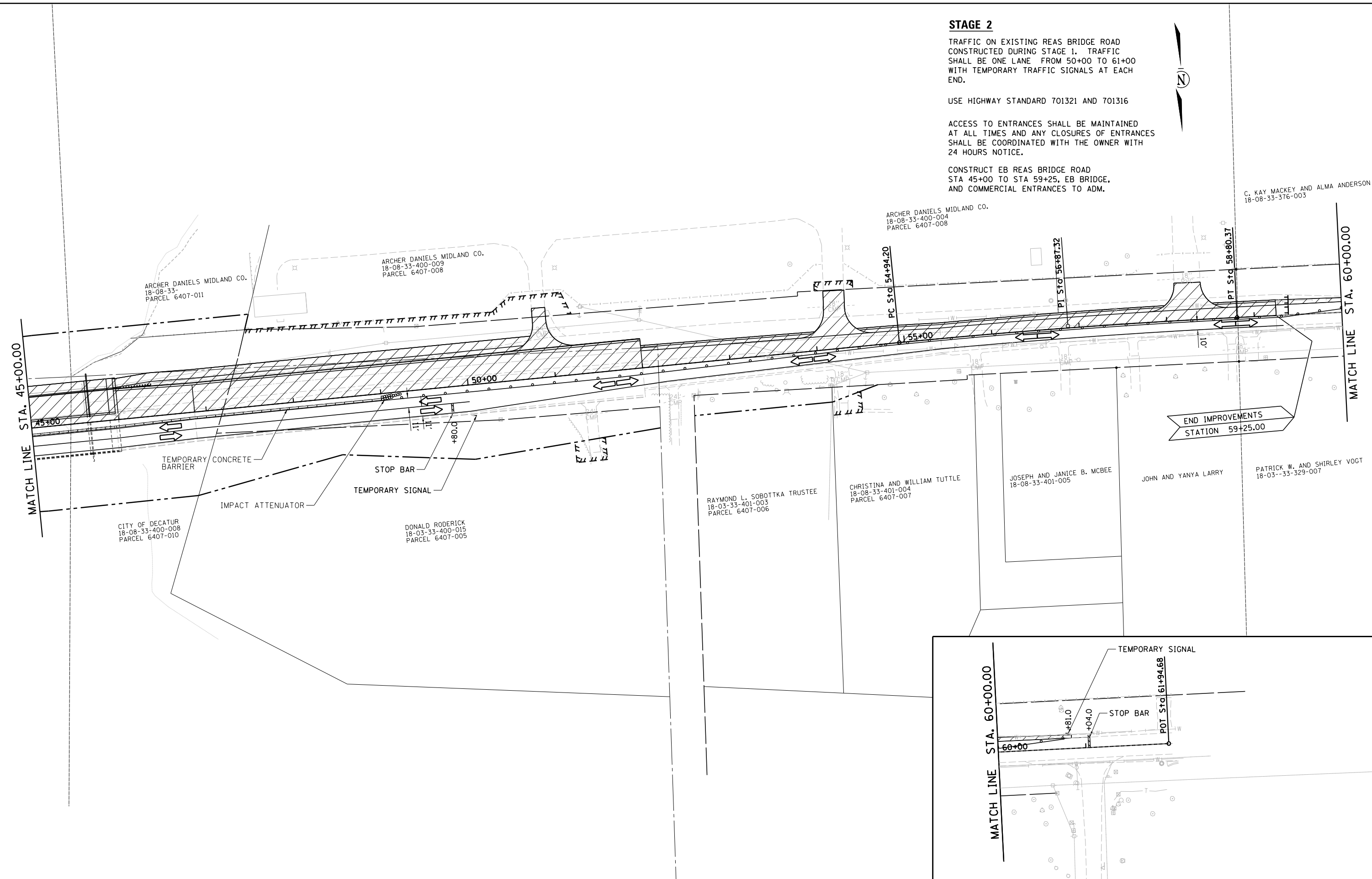
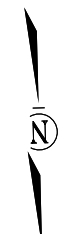
**STAGE 2**

TRAFFIC ON EXISTING REAS BRIDGE ROAD  
CONSTRUCTED DURING STAGE 1. TRAFFIC  
SHALL BE ONE LANE FROM 50+00 TO 61+00  
WITH TEMPORARY TRAFFIC SIGNALS AT EACH  
END.

USE HIGHWAY STANDARD 701321 AND 701316

ACCESS TO ENTRANCES SHALL BE MAINTAINED  
AT ALL TIMES AND ANY CLOSURES OF ENTRANCES  
SHALL BE COORDINATED WITH THE OWNER WITH  
24 HOURS NOTICE.

CONSTRUCT EB REAS BRIDGE ROAD  
STA 45+00 TO STA 59+25, EB BRIDGE,  
AND COMMERCIAL ENTRANCES TO ADM.



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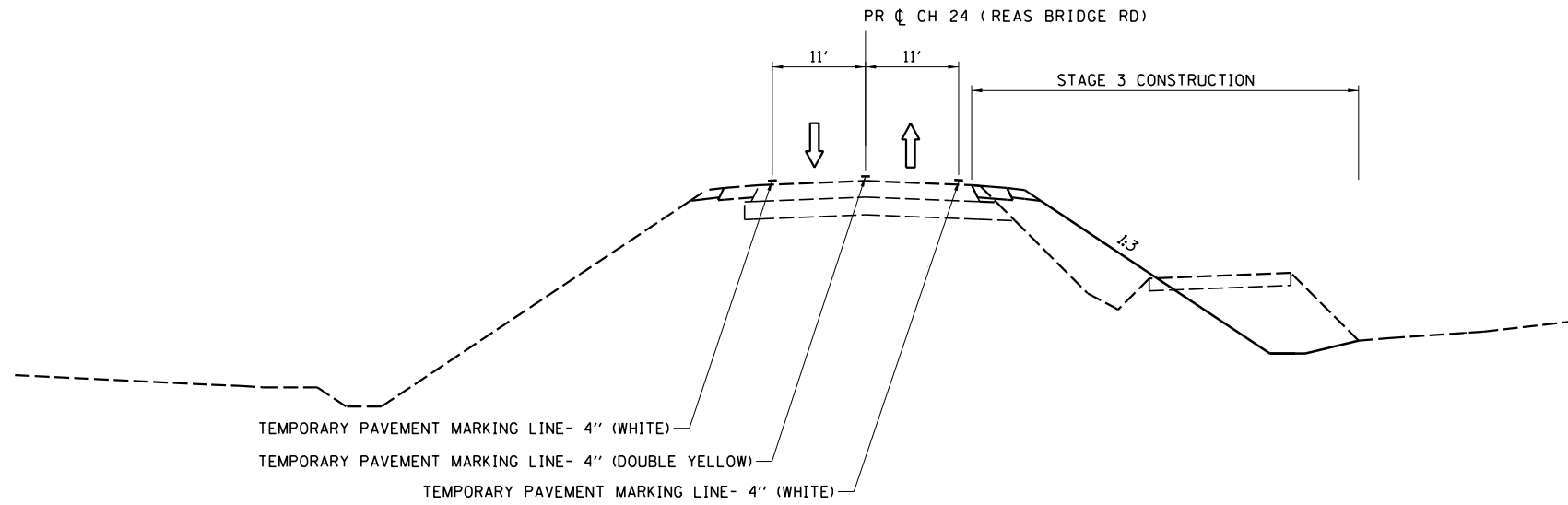
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|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

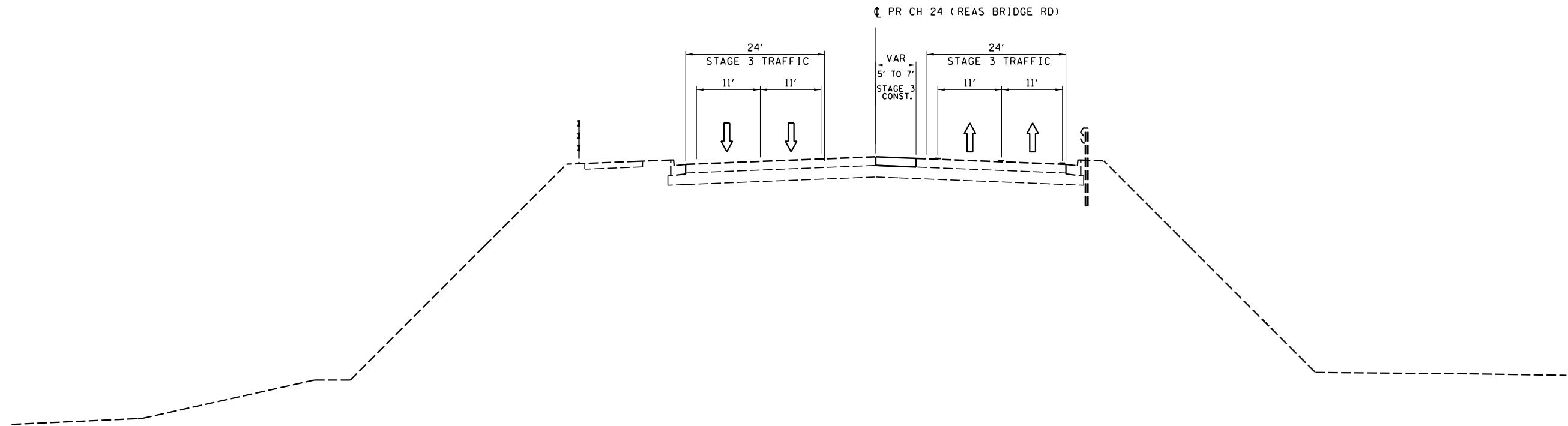
**STAGE 2 CONSTRUCTION**  
**CH 24 (REAS BRIDGE ROAD)**  
SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. 45+00 TO STA. 60+50

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 46        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**REAS BRIDGE ROAD**

STA 19+50 TO STA 25+25 (EMBANKMENT)  
 STA 19+50 TO STA 26+00 (SHOULDERS)



**REAS BRIDGE ROAD**

STA 29+00 TO STA 49+00

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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 184-001397

**STAGE 3 TYPICAL SECTIONS  
 CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 47        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 3**

CONSTRUCT WB REAS BRIDGE ROAD SHOULDERS STA 19+50 TO STA 26+00.

CONSTRUCT REMAINING RIGHT EMBANKMENT STA 19+50 TO STA 25+25.

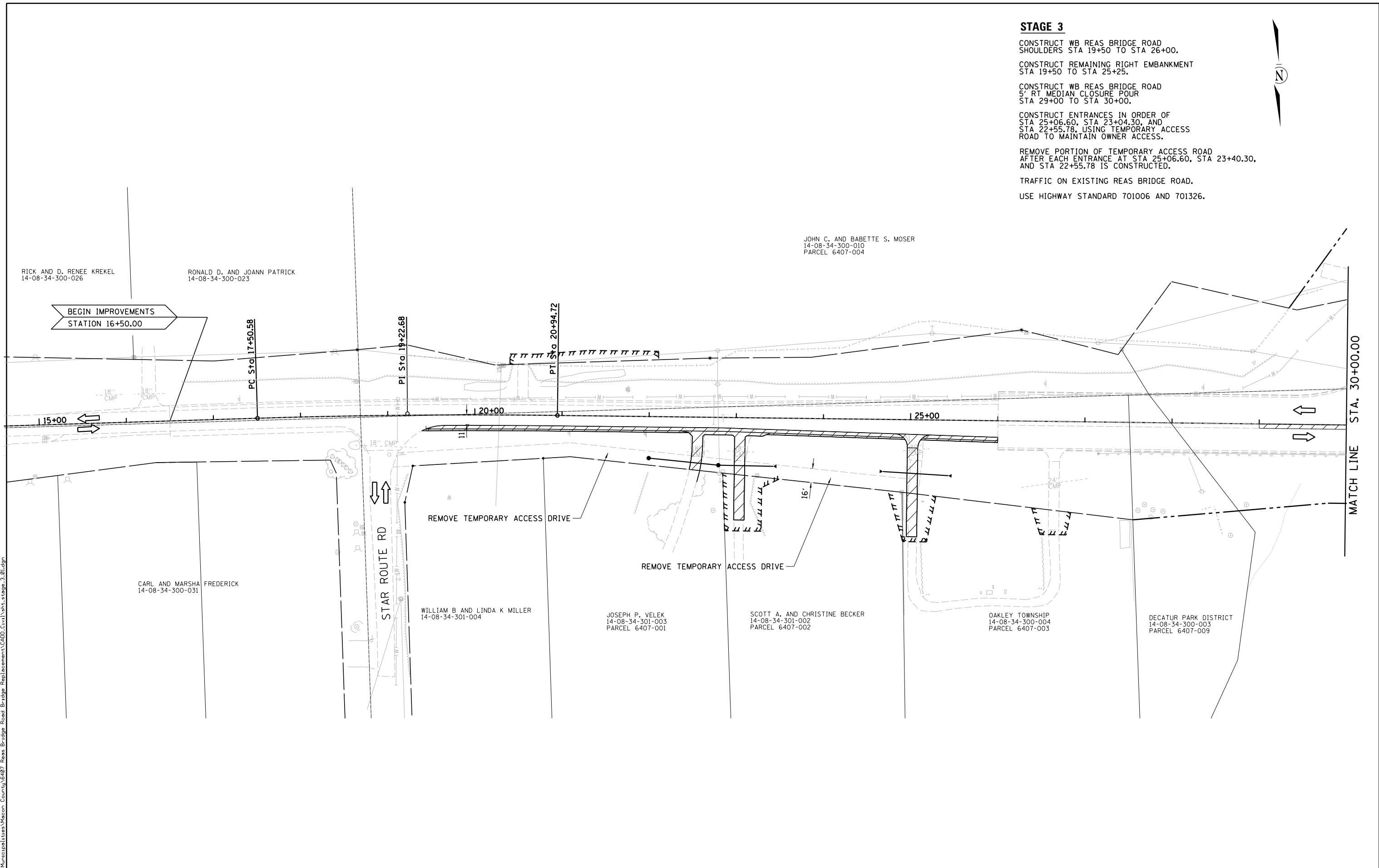
CONSTRUCT WB REAS BRIDGE ROAD 5' RT MEDIAN CLOSURE POUR STA 29+00 TO STA 30+00.

CONSTRUCT ENTRANCES IN ORDER OF STA 25+06.60, STA 23+04.30, AND STA 22+55.78, USING TEMPORARY ACCESS ROAD TO MAINTAIN OWNER ACCESS.

REMOVE PORTION OF TEMPORARY ACCESS ROAD AFTER EACH ENTRANCE AT STA 25+06.60, STA 23+40.30, AND STA 22+55.78 IS CONSTRUCTED.

TRAFFIC ON EXISTING REAS BRIDGE ROAD.

USE HIGHWAY STANDARD 701006 AND 701326.



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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184-001397

**STAGE 3 CONSTRUCTION**  
**CH 24 (REAS BRIDGE ROAD)**

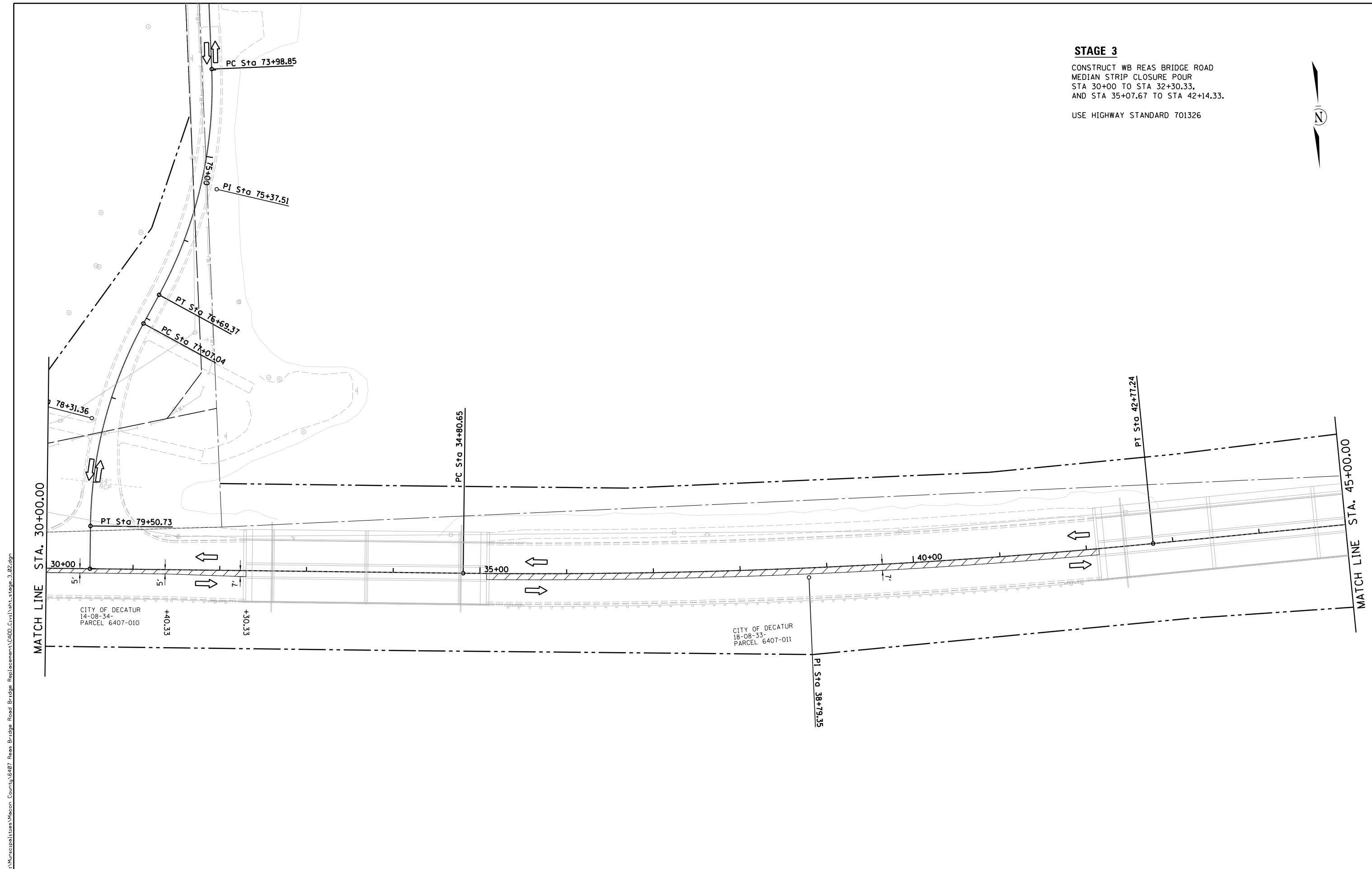
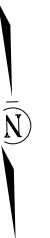
SCALE: 1" = 50'    SHEET NO. 2 OF 4 SHEETS    STA. 15+00 TO STA. 30+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 48        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 3**

CONSTRUCT WB REAS BRIDGE ROAD  
 MEDIAN STRIP CLOSURE POUR  
 STA 30+00 TO STA 32+30.33,  
 AND STA 35+07.67 TO STA 42+14.33.

USE HIGHWAY STANDARD 701326



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**STAGE 3 CONSTRUCTION  
 CH 24 (REAS BRIDGE ROAD)**

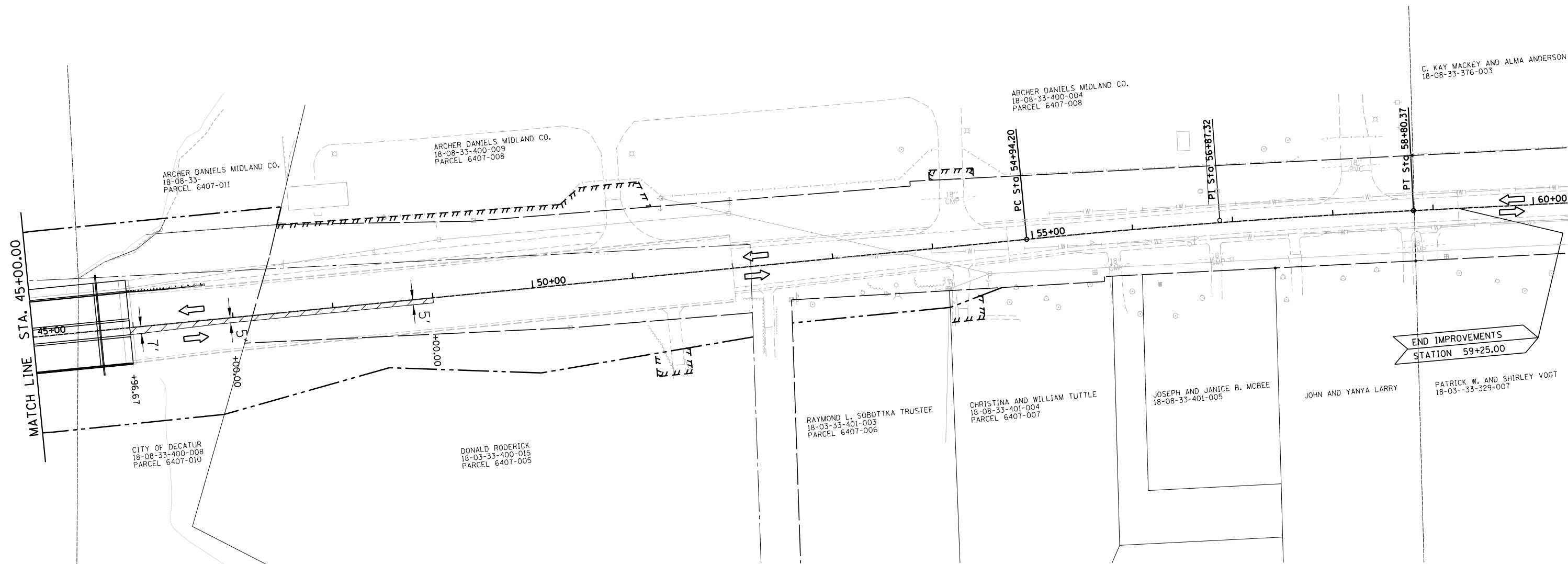
SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. 30+00 TO STA. 45+00

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 49        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**STAGE 3**

CONSTRUCT WB REAS BRIDGE ROAD  
 MEDIAN CLOSURE STRIP STA 45+96.67 TO 49+00

USE HIGHWAY STANDARD 701326



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
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
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

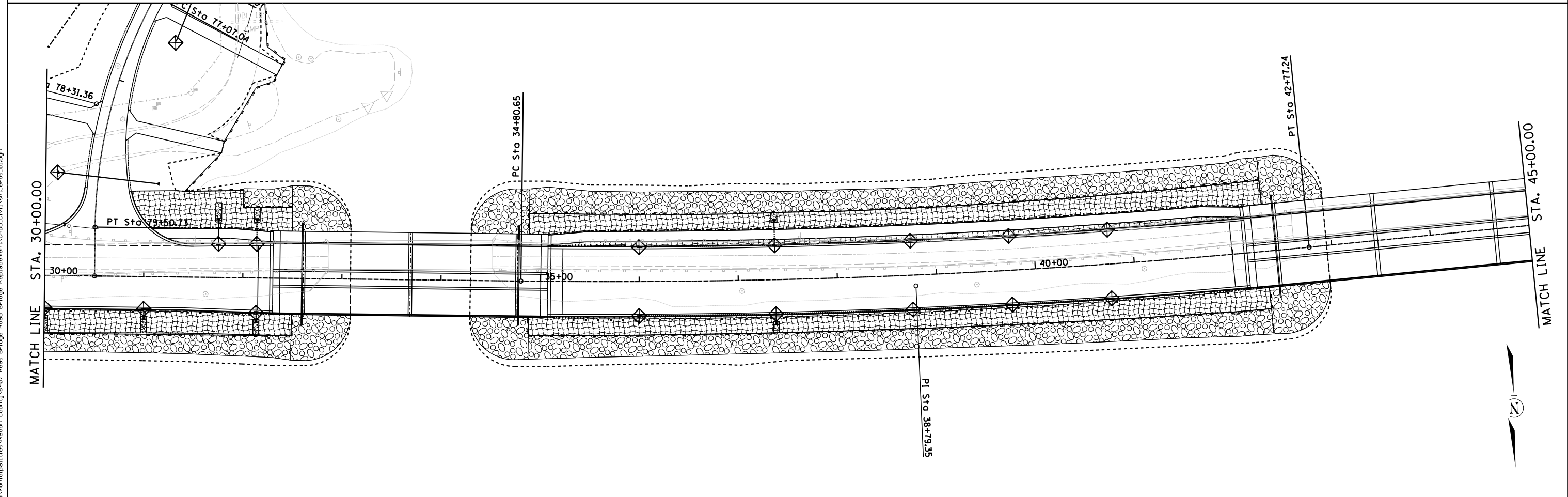
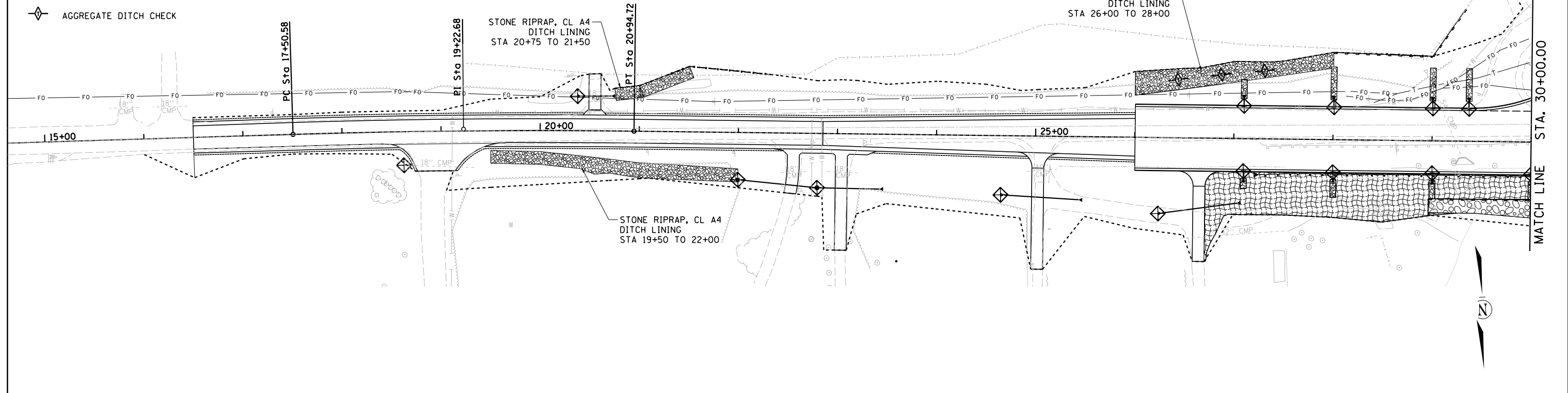
**STAGE 3 CONSTRUCTION  
 CH 24 (REAS BRIDGE ROAD)**

SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. 45+00 TO STA. 60+50

| F.A.U. RTE                | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 50        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**LEGEND**

-  EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  AGGREGATE DITCH CHECK



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|                              |                |           |
|------------------------------|----------------|-----------|
| USER NAME = jbenning         | DESIGNED - TES | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN - RLK    | REVISED - |
| PLOT DATE = 1/26/2022        | CHECKED - JMB  | REVISED - |
|                              | DATE -         | REVISED - |

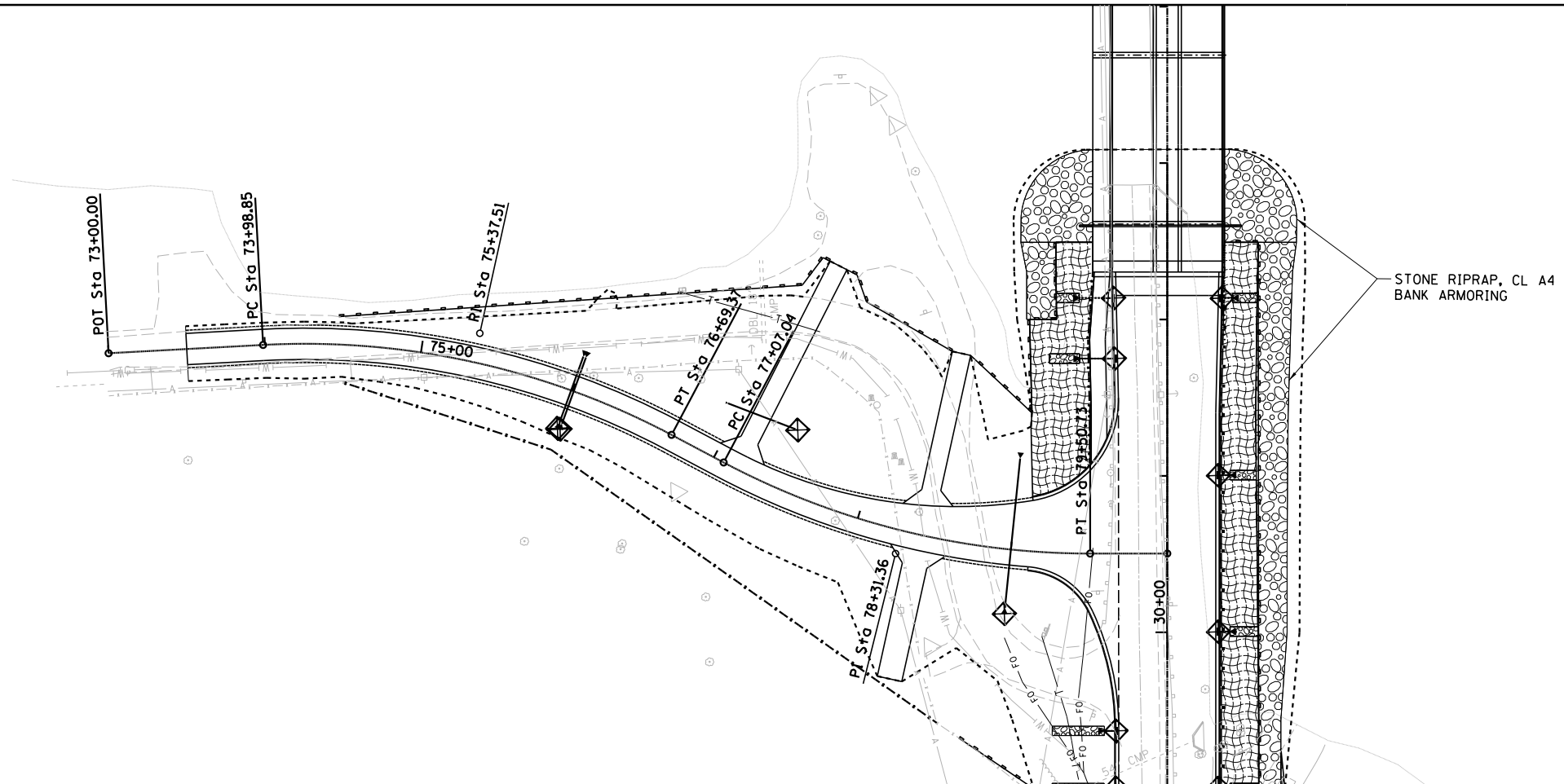
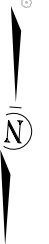
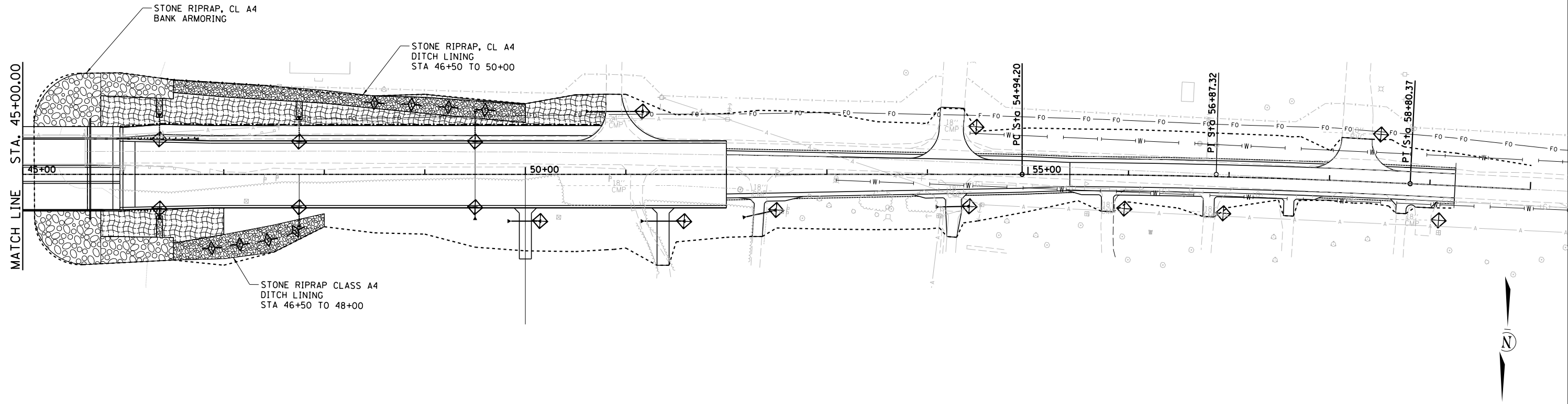
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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ROCKFORD (815) 489-0050  
184-001397

**EROSION CONTROL PLAN  
CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 51        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



- LEGEND**
- EROSION CONTROL BLANKET
  - STONE RIPRAP, CLASS A4
  - INLET AND PIPE PROTECTION
  - PERIMETER EROSION BARRIER
  - AGGREGATE DITCH CHECK

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|------------------------------|----------------|-----------|
| USER NAME = jbenning         | DESIGNED - TES | REVISED - |
|                              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - JMB  | REVISED - |
| PLOT DATE = 1/26/2022        | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

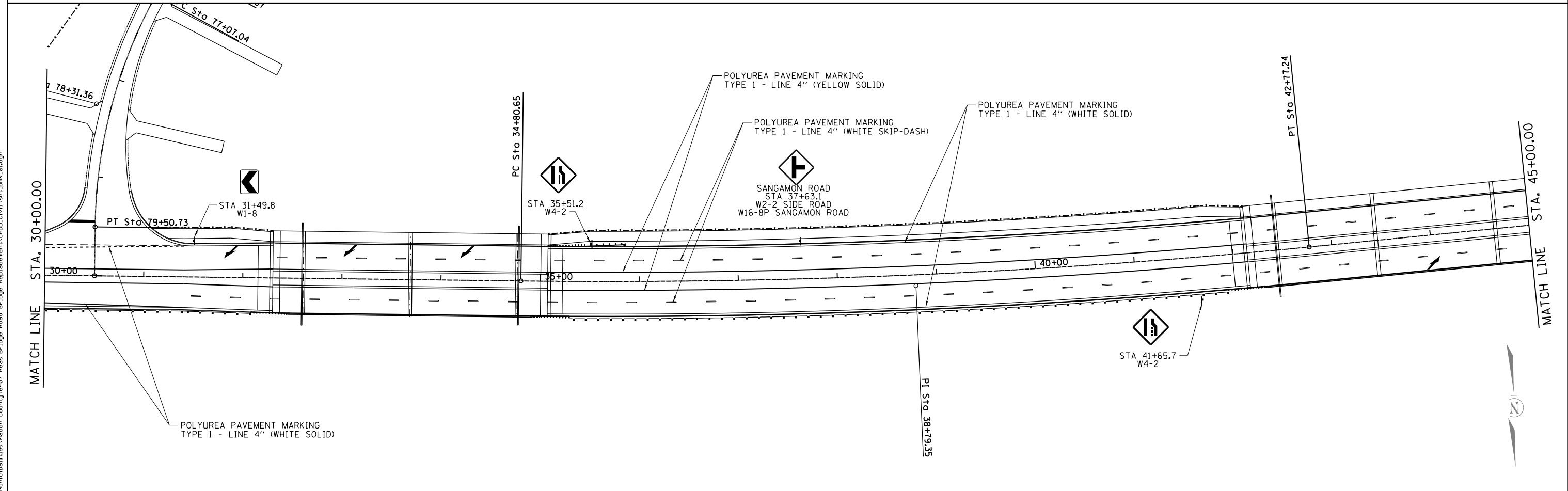
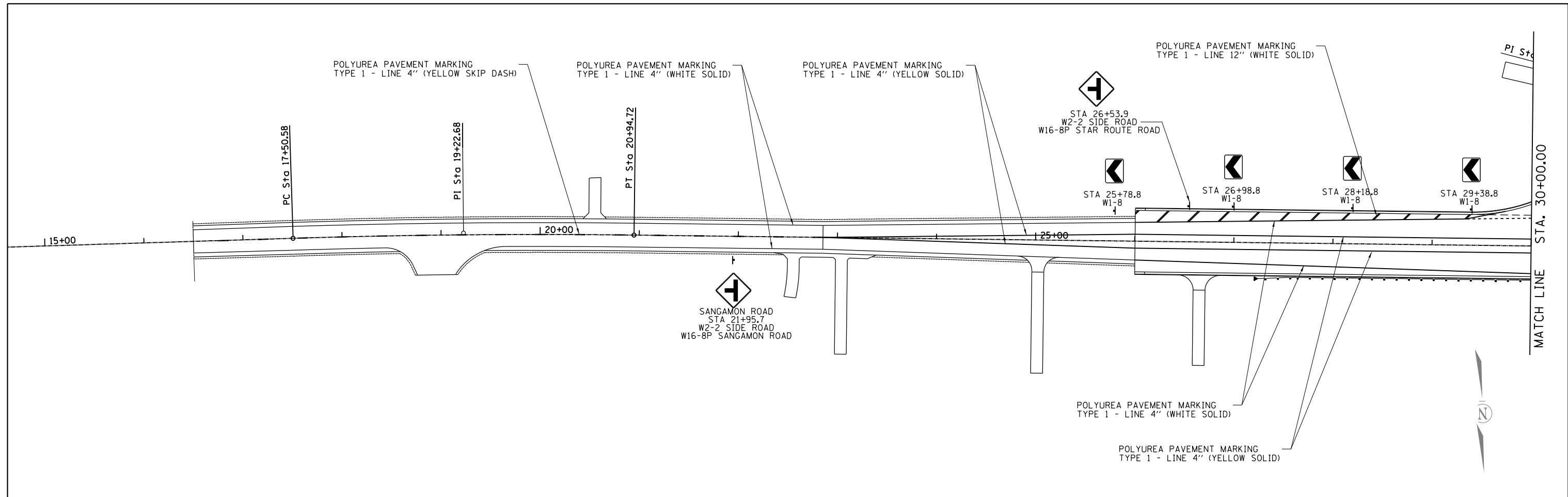
**EROSION CONTROL PLAN**  
**CH 24 (REAS BRIDGE ROAD) AND SANGAMON ROAD**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 52        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



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|                              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - JMB  | REVISED - |
| PLOT DATE = 1/26/2022        | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

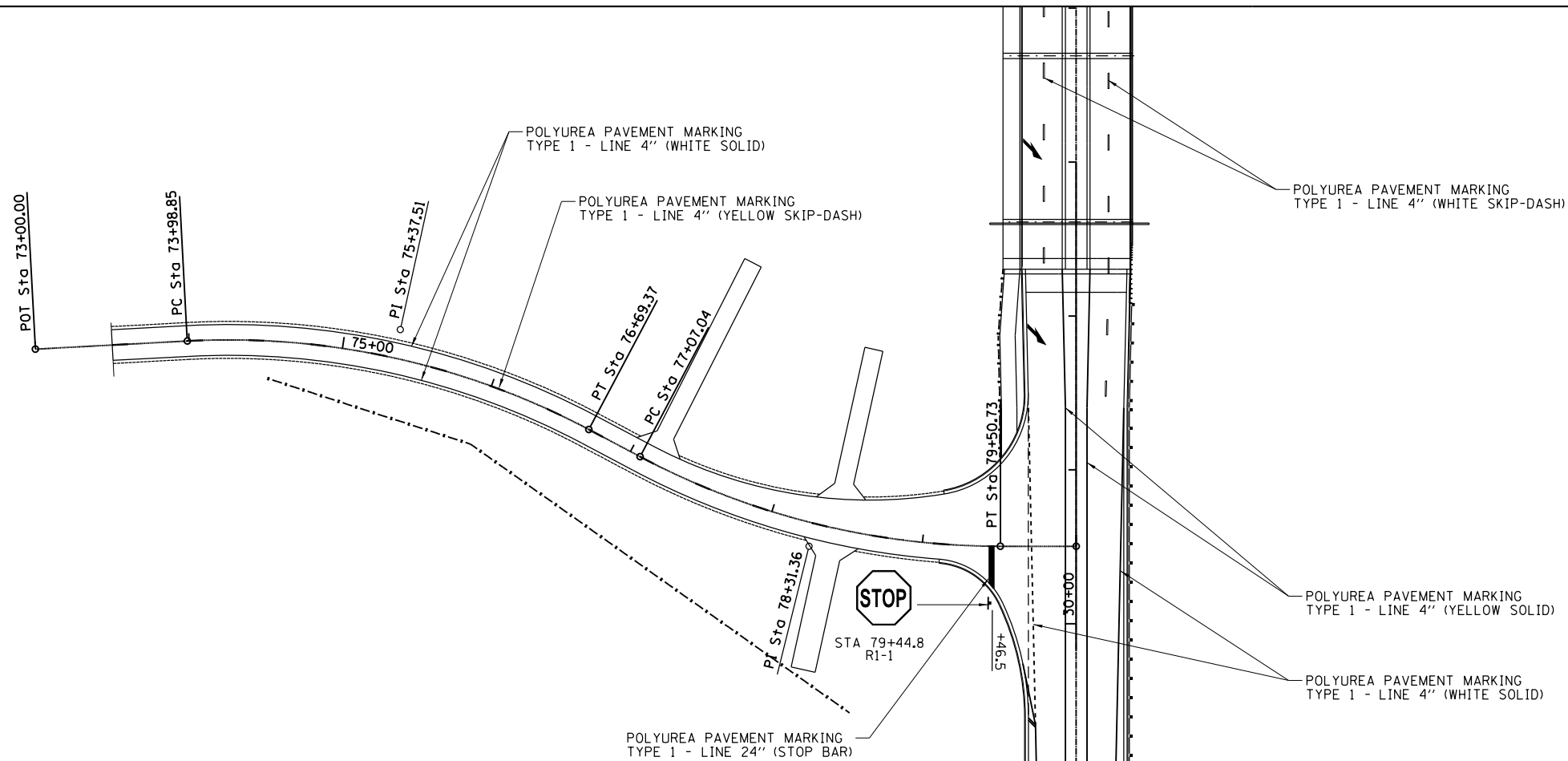
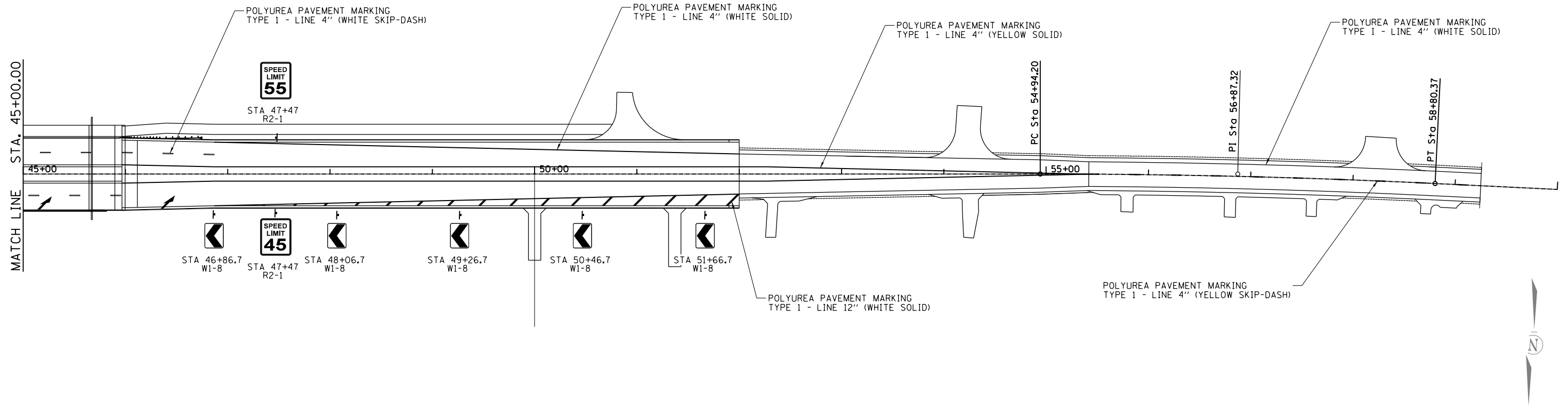
DECATUR (217) 422-8544  
SCHAMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**PAVEMENT MARKING & SIGNING PLAN**  
**CH 24 (REAS BRIDGE ROAD)**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 53        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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|------------------------------|----------------|-----------|
| USER NAME = jbuening         | DESIGNED - TES | REVISED - |
|                              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - JMB  | REVISED - |
| PLOT DATE = 1/26/2022        | DATE -         | REVISED - |

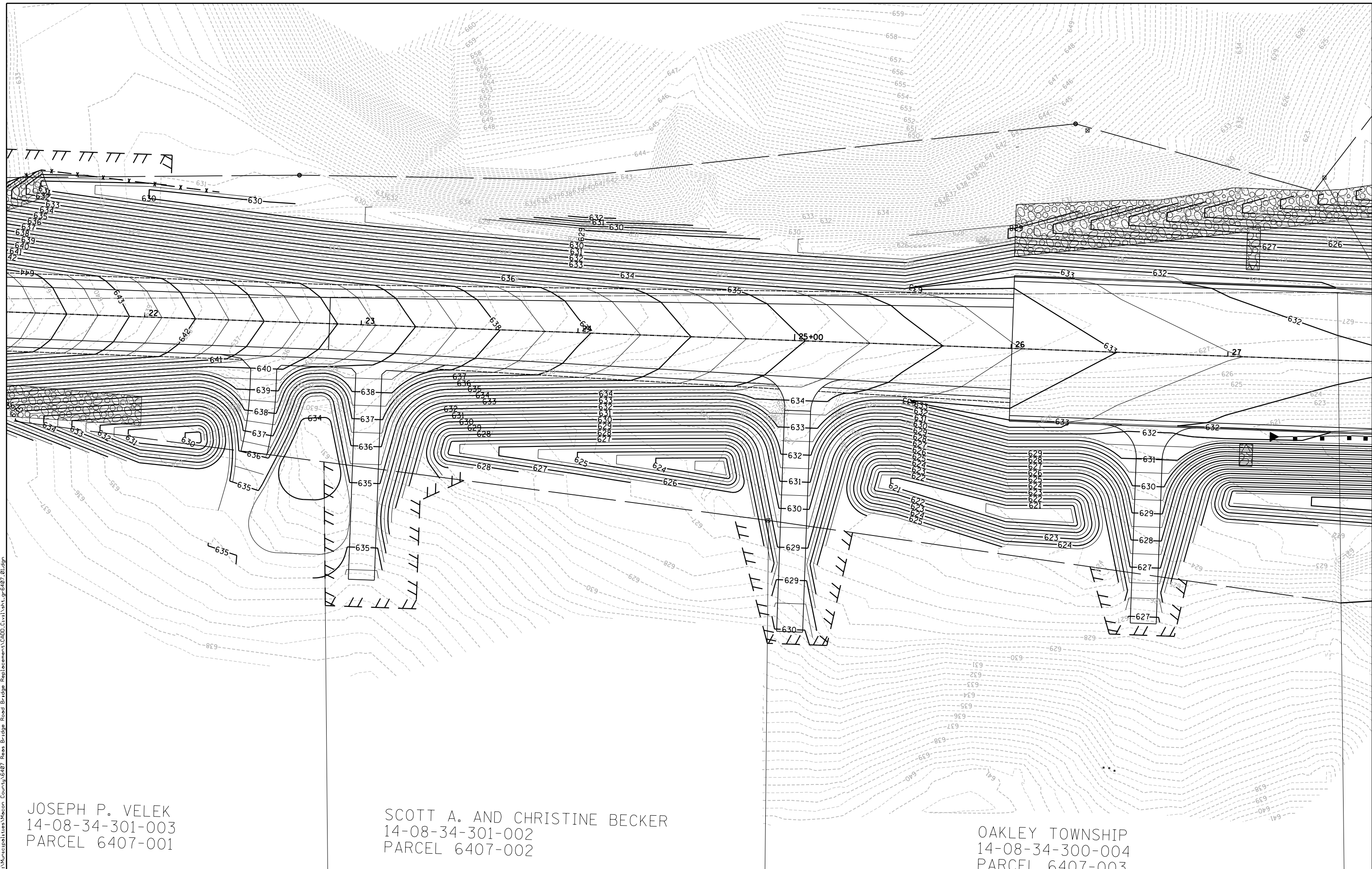
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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184-001397

**PAVEMENT MARKING & SIGNING PLAN**  
**CH 24 (REAS BRIDGE ROAD) AND SANGAMON ROAD**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 54        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



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JOSEPH P. VELEK  
14-08-34-301-003  
PARCEL 6407-001

SCOTT A. AND CHRISTINE BECKER  
14-08-34-301-002  
PARCEL 6407-002

OAKLEY TOWNSHIP  
14-08-34-300-004  
PARCEL 6407-003

|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
| PLOT SCALE = | DRAWN - RLK    | REVISED - |
| PLOT DATE =  | CHECKED - JMB  | REVISED - |
|              | DATE -         | REVISED - |

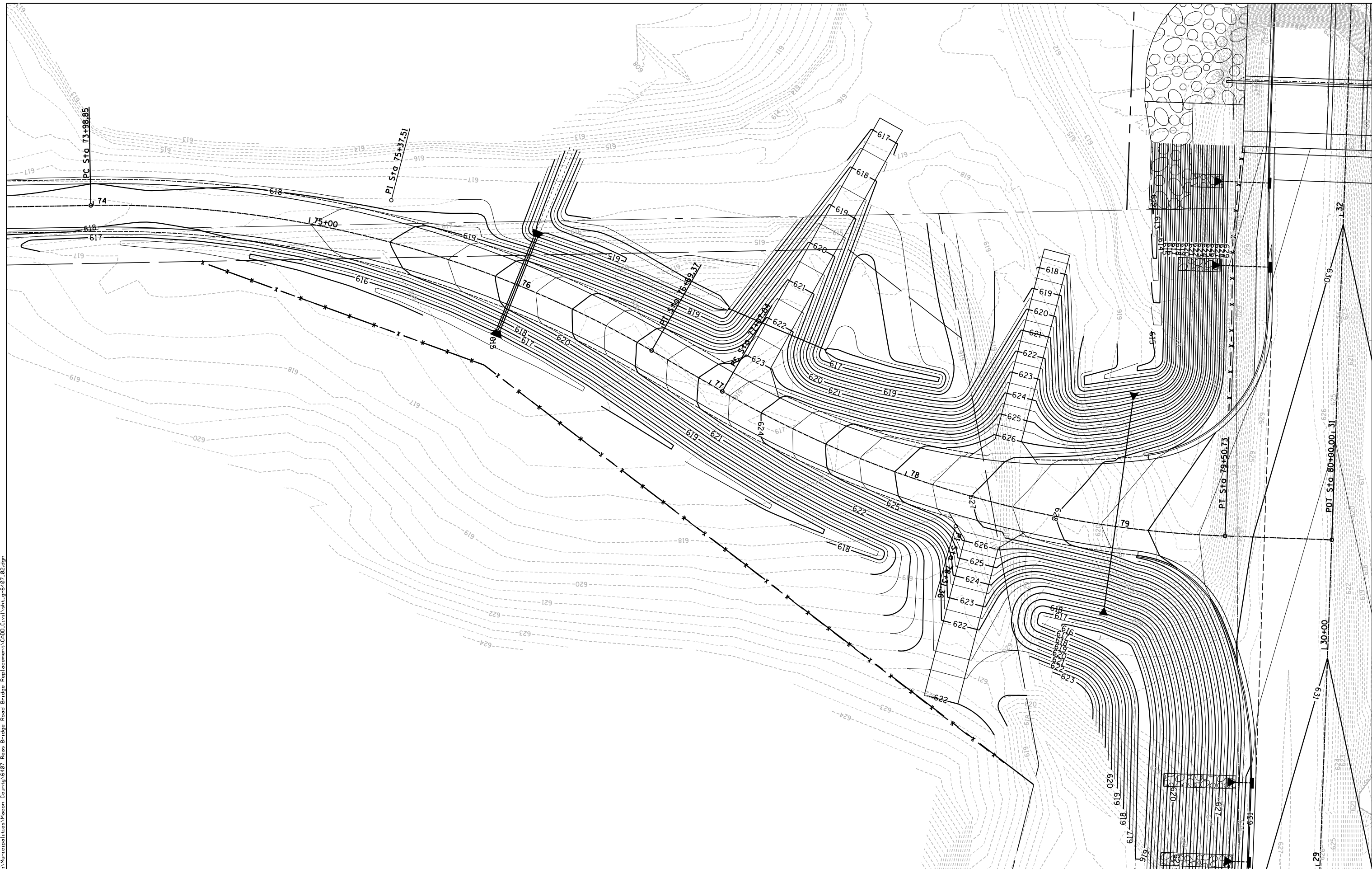
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**GRADING PLAN - CH 24 (EAST)**  
**CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 55        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



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|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
| PLOT SCALE = | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT DATE =  | CHECKED - <i>JMB</i>  | REVISED - |
|              | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

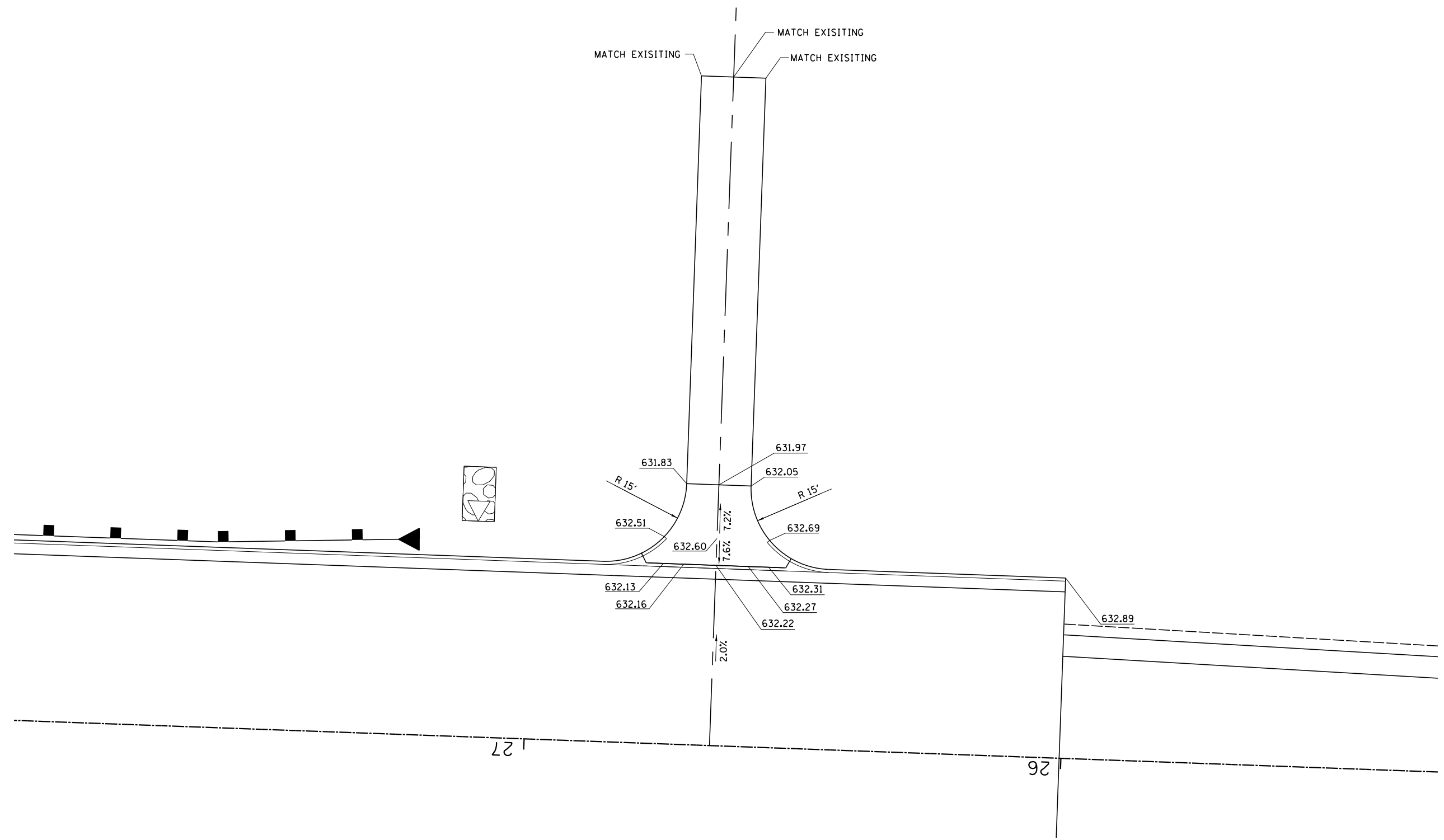
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**GRADING PLAN - SANGAMON ROAD  
CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.        | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196          | 56        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

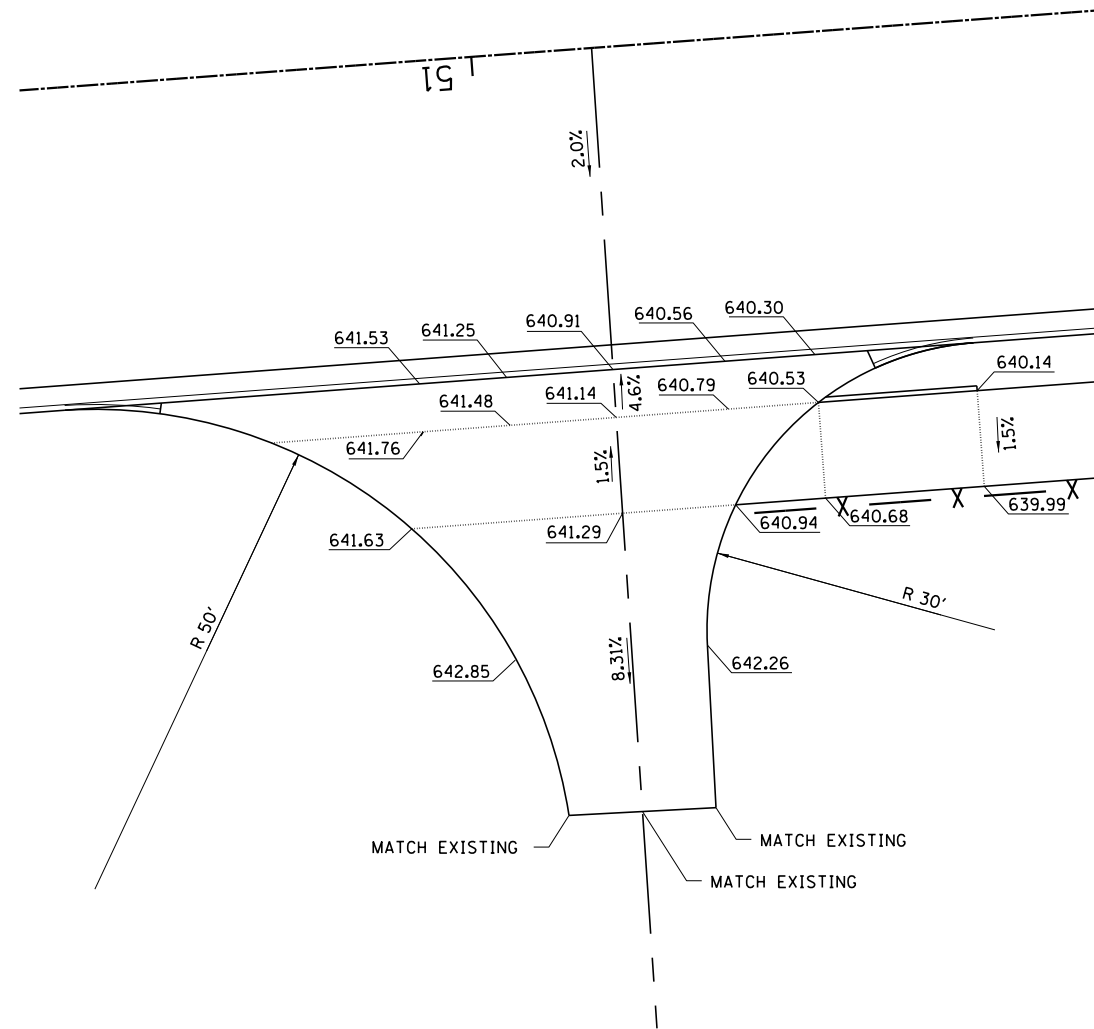


**STA 26+65.47, RT - CE**

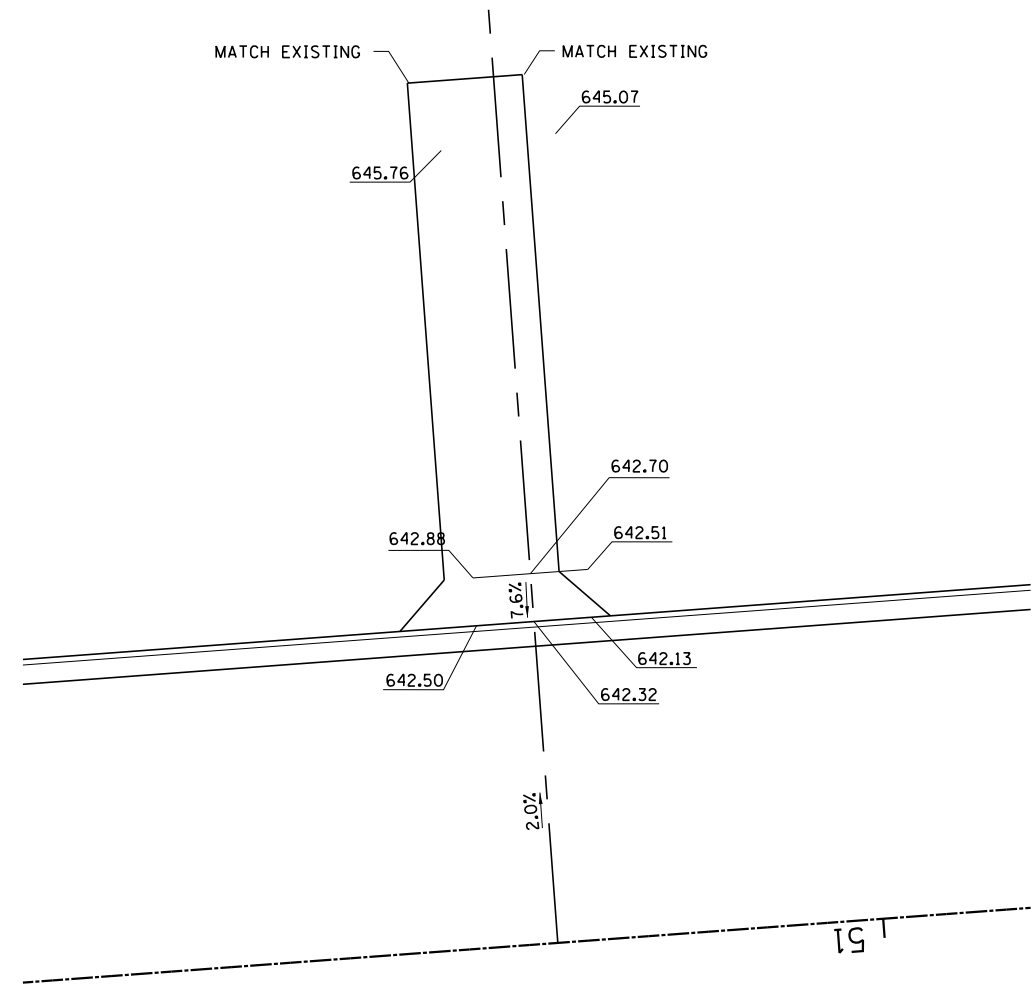
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|              |                       |           |   |   |  |                     |                |                           |              |           |  |
|--------------|-----------------------|-----------|---|---|--|---------------------|----------------|---------------------------|--------------|-----------|--|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - | <p><b>CHASTAIN &amp; ASSOCIATES LLC</b><br/>CONSULTING ENGINEERS</p> <p>DECATUR (217) 422-8544<br/>SCHAUMBURG (773) 714-0050<br/>ROCKFORD (815) 489-0050<br/>184-001397</p> | <p align="center"><b>INTERSECTION DETAIL</b></p> <p align="center"><b>CH 24 (REAS BRIDGE ROAD) / DRIVEWAY</b></p> |  | F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |  |
| PLOT SCALE = | DRAWN - <i>RLK</i>    | REVISED - |   |   |  | 7355                | 12-00251-00-BR | MACON                     | 196          | 57        |  |
| PLOT DATE =  | CHECKED - <i>JMB</i>  | REVISED - |   | SCALE: 1"=20'   |  | SHEET NO. OF SHEETS | STA. TO STA.   | ILLINOIS FED. AID PROJECT |              |           |  |
|              | DATE -                | REVISED - |   |   |  |                     |                | CONTRACT NO. <b>95912</b> |              |           |  |

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**STA 50 + 87.81, LT - CE**



**STA 51 + 34.00, RT - PE**



|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**INTERSECTION DETAIL**  
**CH 24 (REAS BRIDGE ROAD) / DRIVEWAY**

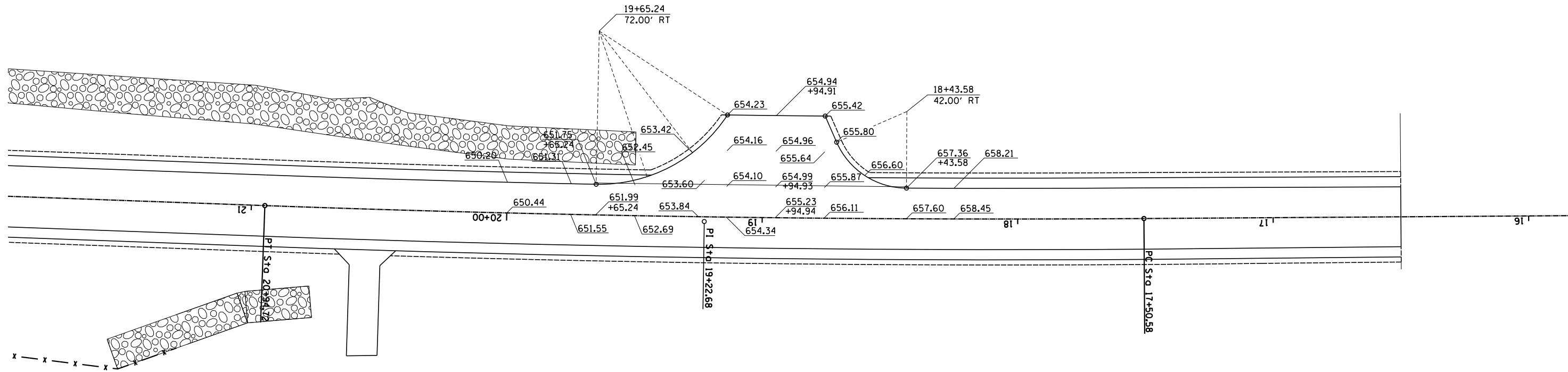
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 58        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT



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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

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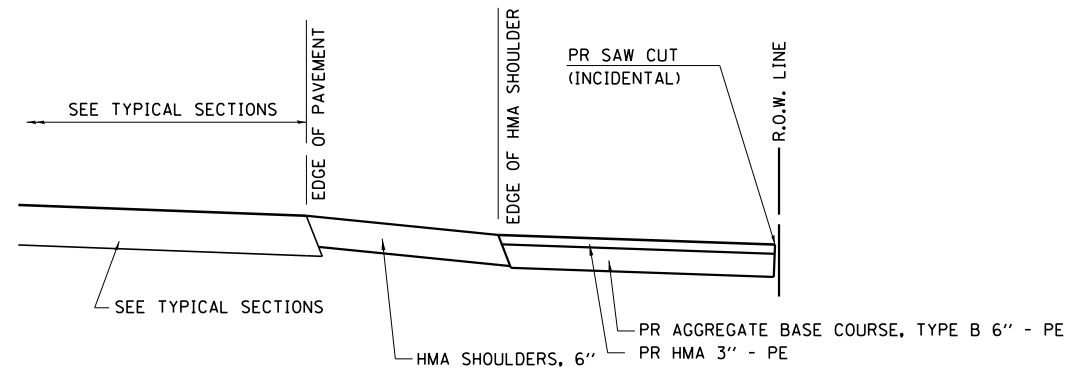
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**INTERSECTION DETAIL**  
**CH 24 (REAS BRIDGE ROAD) / STAR ROUTE ROAD**

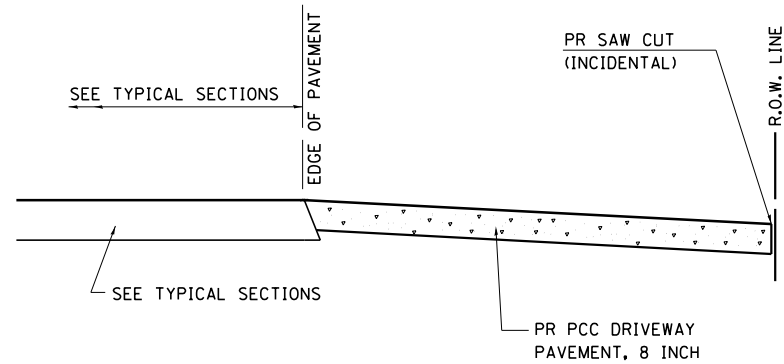
SCALE: 1"=20'    SHEET NO.    OF    SHEETS    STA.    TO    STA.

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 60        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

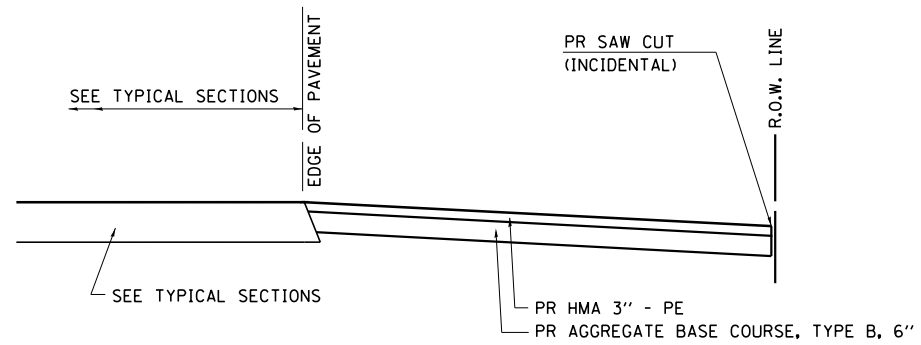




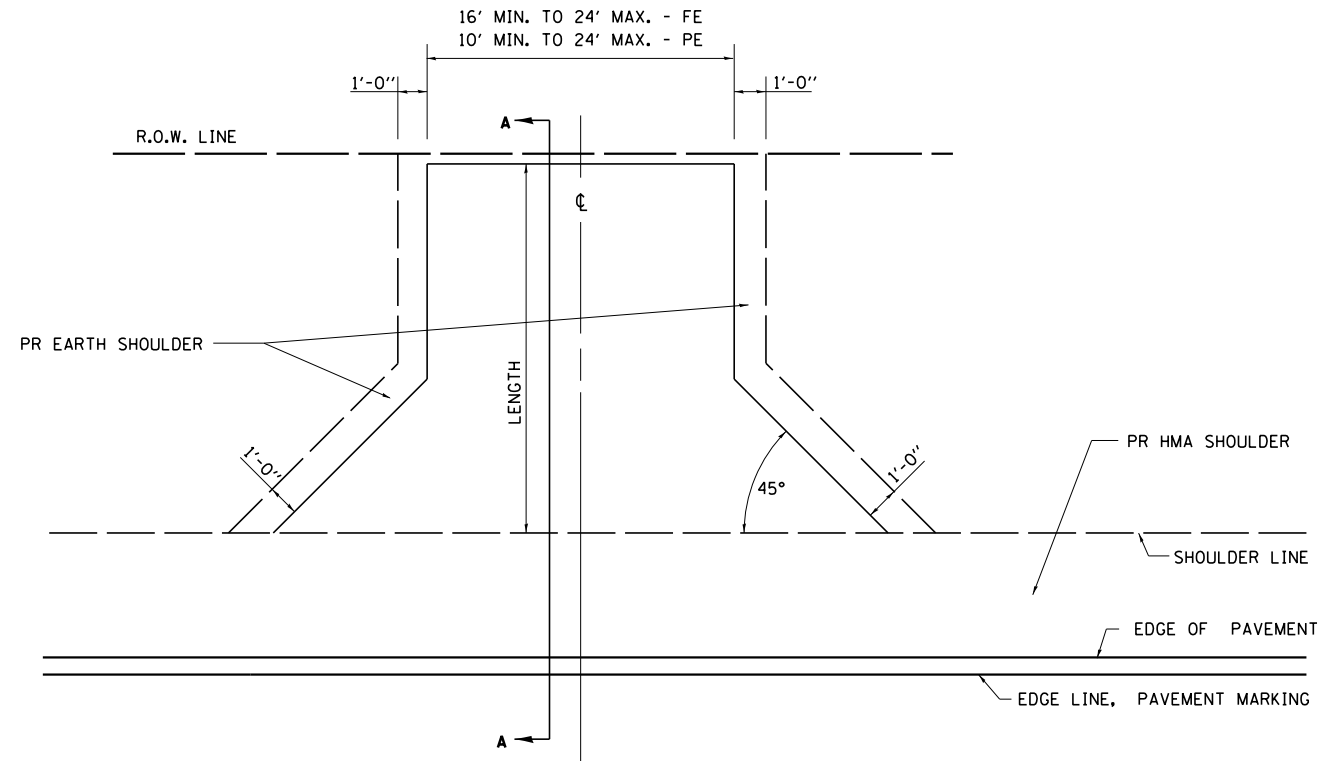
**SECTION A-A FOR EX HMA PE**



**SECTION B-B FOR EX CE**  
STA. 54+20.6 & 58+25.5

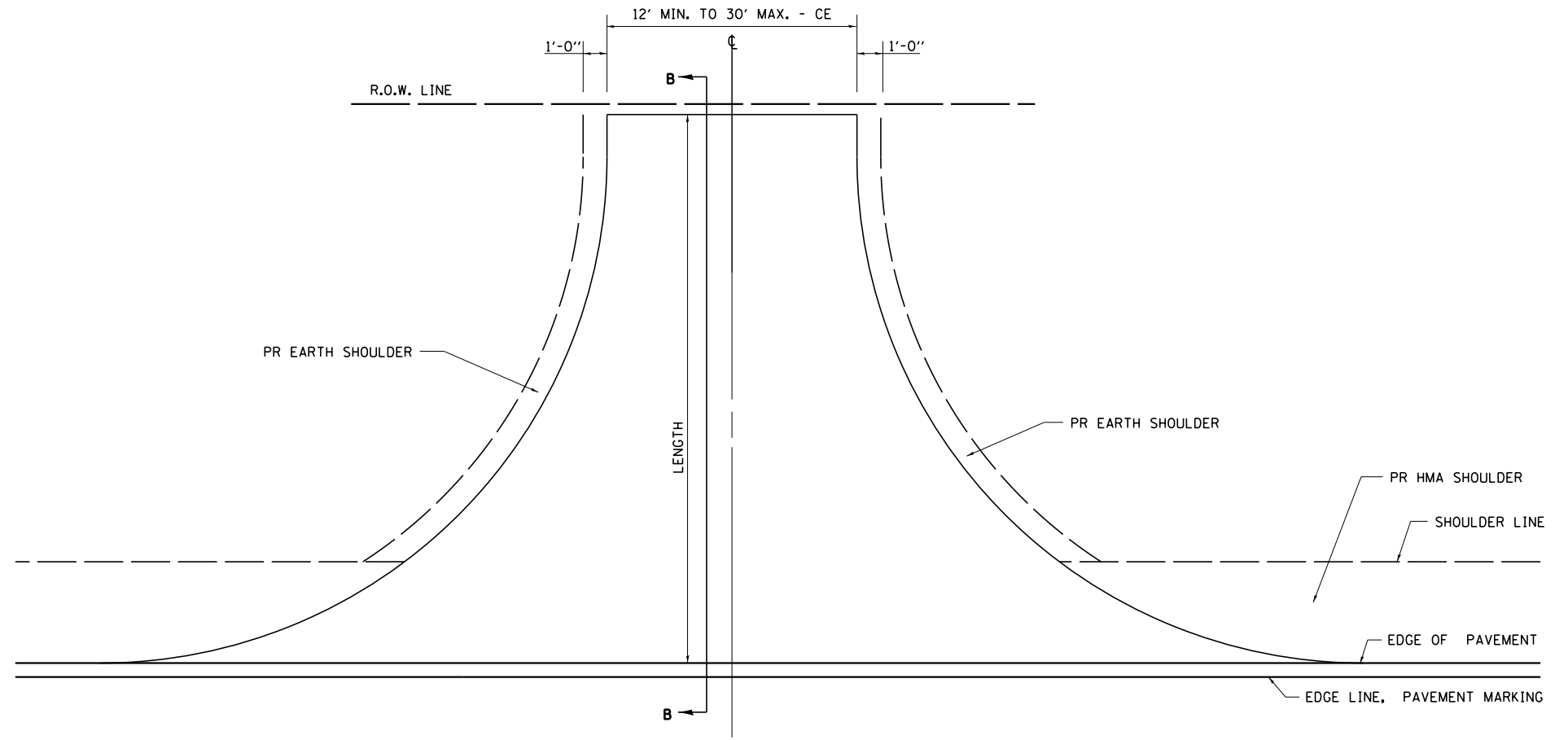


**SECTION B-B FOR EX CE**  
STA. 25+02.6



**PLAN - PRIVATE AND FIELD ENTRANCE WITH HMA SHOULDERS**

STA. 20+55.0, STA. 58+72.4, STA 58+95.0



**PLAN - COMMERCIAL ENTRANCE WITH HMA SHOULDERS**

STA. 25+02.6, STA. 54+20.6, STA. 58+25.5

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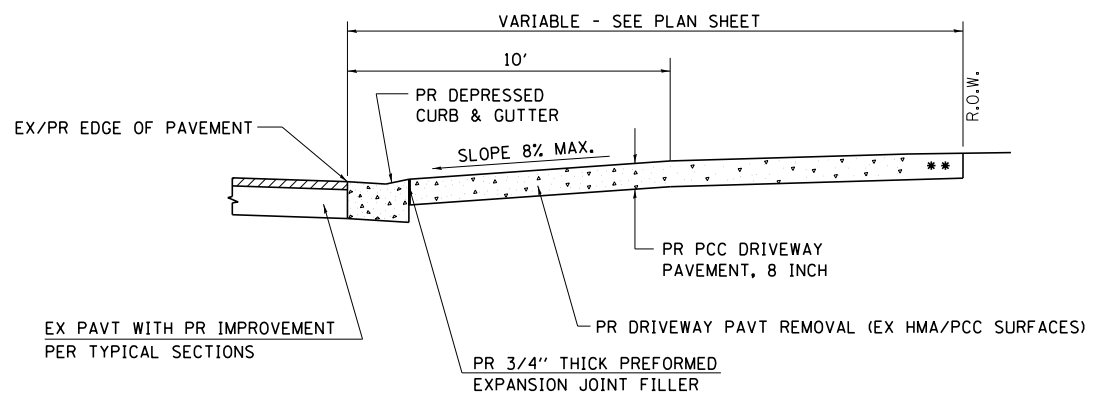
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|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

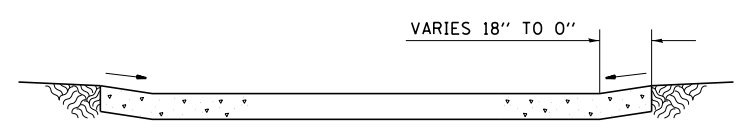
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

|                                 |           |           |              |
|---------------------------------|-----------|-----------|--------------|
| <b>ENTRANCE DETAILS</b>         |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |           |           |              |
| SCALE:                          | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 61        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

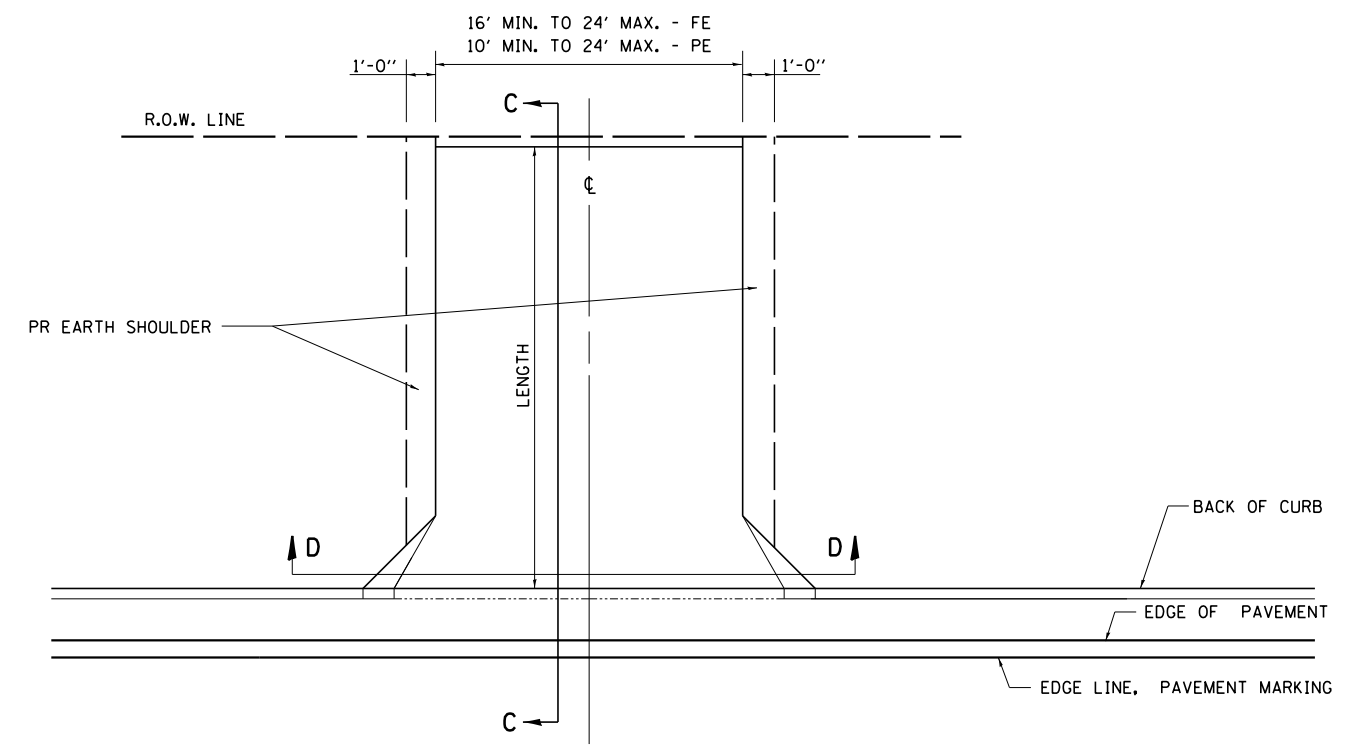


**SECTION C - C**



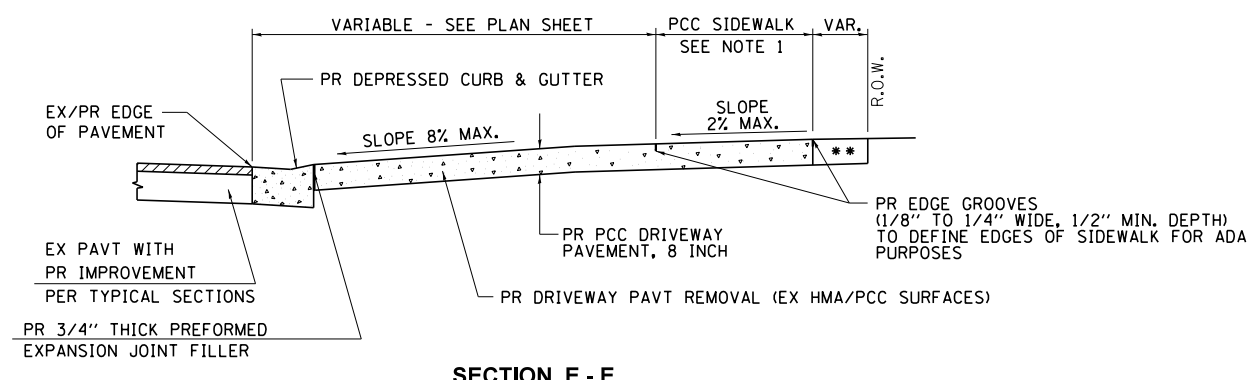
**SECTION D - D**

- NOTES:
1. SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
  2. THE COST OF FURNISHING AND INSTALLING THE 3/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.



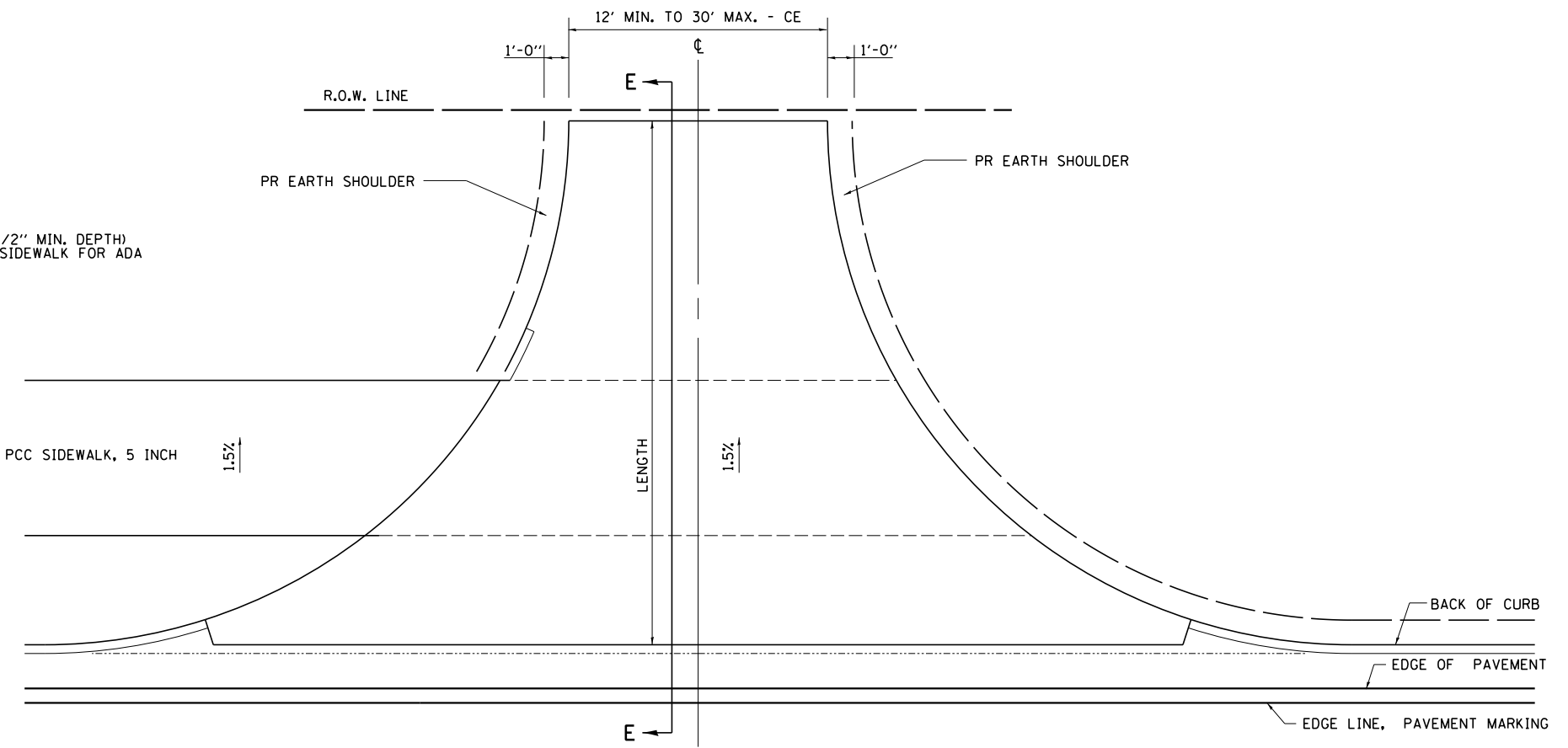
**PLAN - PRIVATE AND FIELD ENTRANCE WITH CURB AND GUTTER**

STA. 51+34.0



**SECTION E - E**

- NOTES:
1. SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
  2. THE COST OF FURNISHING AND INSTALLING THE 3/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.



**PLAN - COMMERCIAL ENTRANCE WITH CURB AND GUTTER**

STA. 26+65.5, STA 50+87.8

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

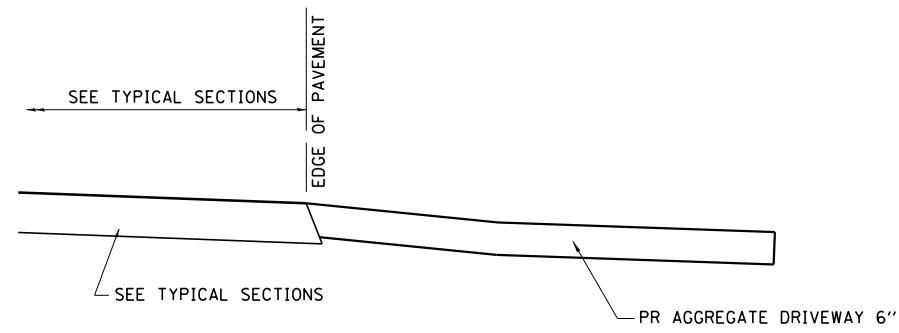
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

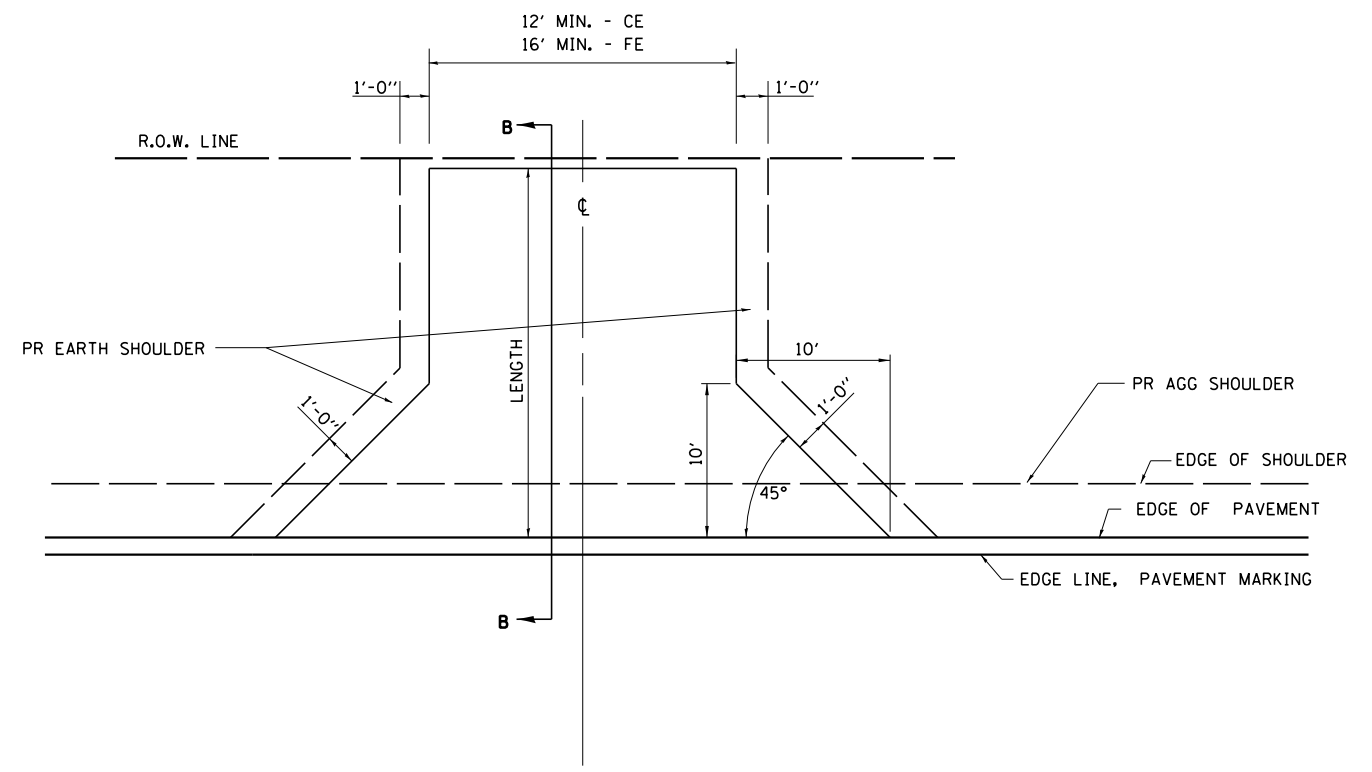
|                                 |           |           |              |
|---------------------------------|-----------|-----------|--------------|
| <b>ENTRANCE DETAILS</b>         |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |           |           |              |
| SCALE:                          | SHEET NO. | OF SHEETS | STA. TO STA. |

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 62        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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**SECTION A-A FOR EX AGG FE/CE**



**PLAN - COMMERCIAL AND FIELD ENTRANCE WITH AGG SHOULDERS**

STA. 77+15.3, STA. 78+42.0 LT, STA 78+42.0 RT

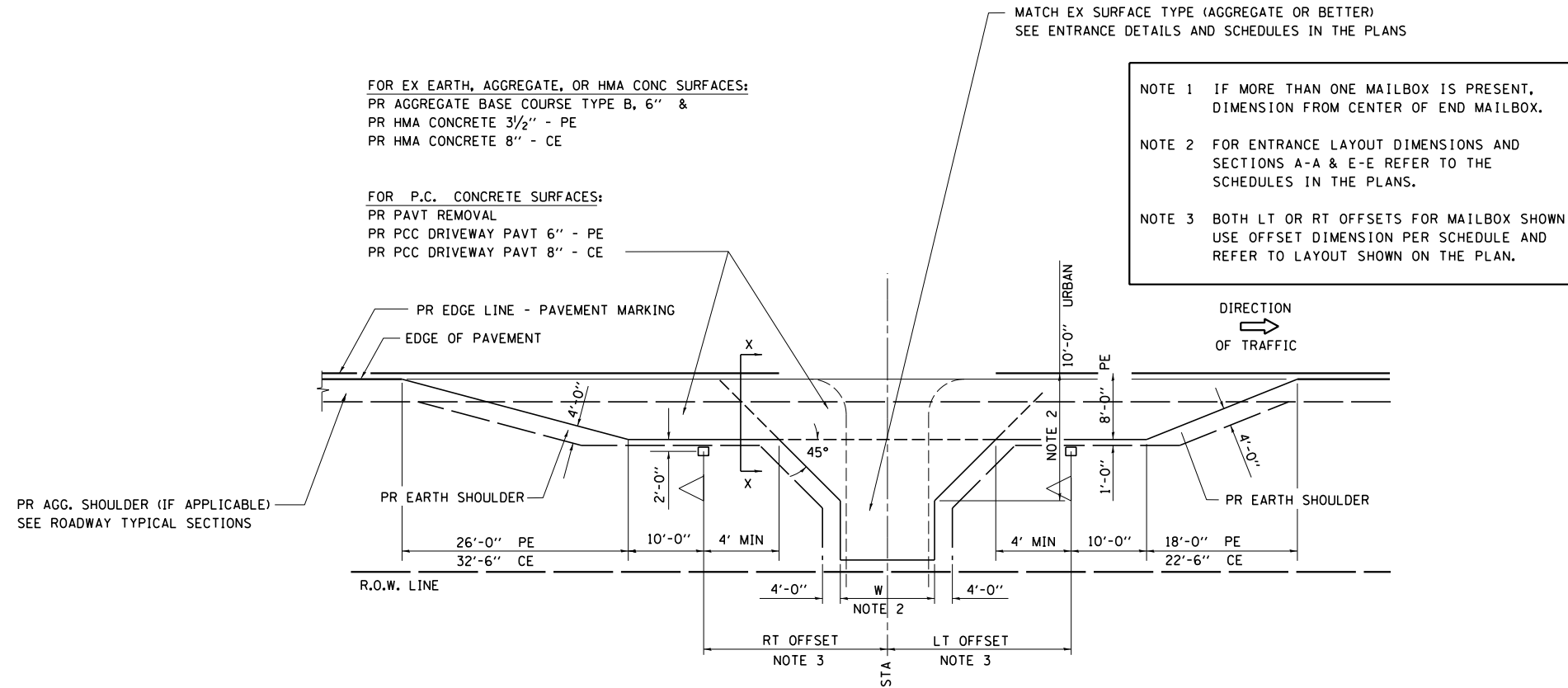
|              |                       |           |
|--------------|-----------------------|-----------|
| USER NAME =  | DESIGNED - <i>TES</i> | REVISED - |
|              | DRAWN - <i>RLK</i>    | REVISED - |
| PLOT SCALE = | CHECKED - <i>JMB</i>  | REVISED - |
| PLOT DATE =  | DATE -                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

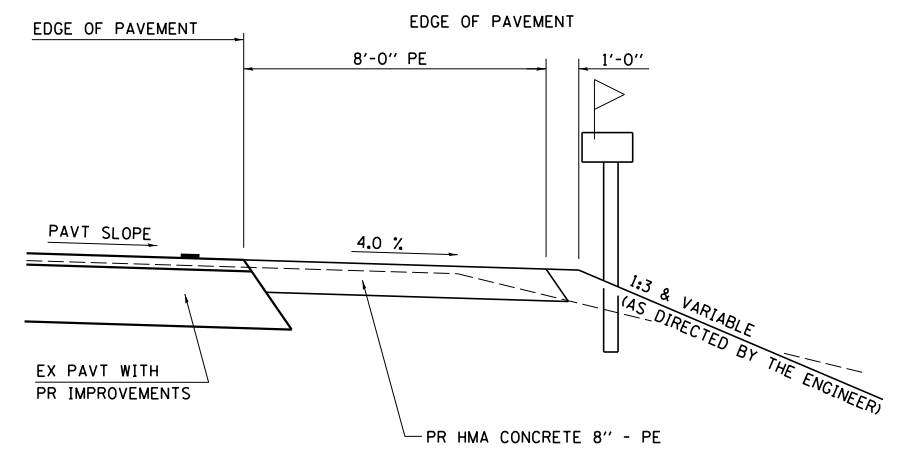
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

|                                 |           |           |              |
|---------------------------------|-----------|-----------|--------------|
| <b>ENTRANCE DETAILS</b>         |           |           |              |
| <b>CH 24 (REAS BRIDGE ROAD)</b> |           |           |              |
| SCALE:                          | SHEET NO. | OF SHEETS | STA. TO STA. |

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 63        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**  
 STA. 22+55.8, STA. 23+04.3, STA. 52+34.7, STA. 54+26.1, STA. 55+79.4, STA. 56+80.4, STA. 57+60.4



**SECTION X-X THRU MAILBOX TURNOUT**  
**AGGREGATE OR HMA**

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|              |                |           |
|--------------|----------------|-----------|
| USER NAME =  | DESIGNED - TES | REVISED - |
|              | DRAWN - RLK    | REVISED - |
| PLOT SCALE = | CHECKED - JMB  | REVISED - |
| PLOT DATE =  | DATE -         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**DETAILS FOR RURAL ENTRANCE & MAILBOX TURNOUT**  
**CH 24 (REAS BRIDGE ROAD)**

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

| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 64        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

Existing Structure SN 058-3033:  
 The existing bridge is a 166.0' long 3 span W-section beam bridge.  
 The closed abutments are supported by precast concrete piling.  
 Piers 1 and 2 consist of a reinforced concrete cap on precast concrete piling. This original structure was built in 1957.  
 Traffic is to be maintained on this structure until Stage I of the new structure is complete.  
 No salvage.

**Bench Marks:**  
 BM #1: Chiseled line on SE wingwall.  
 Elev. 617.17  
 BM #4: Chiseled square on SE corner of east abutment  
 Elev. 627.32

**DESIGN SPECIFICATIONS**  
 2018 AASHTO LRFD Bridge Design Specifications, 8th Edition with 2018 Interims

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50W)

**LOADING HL-93**

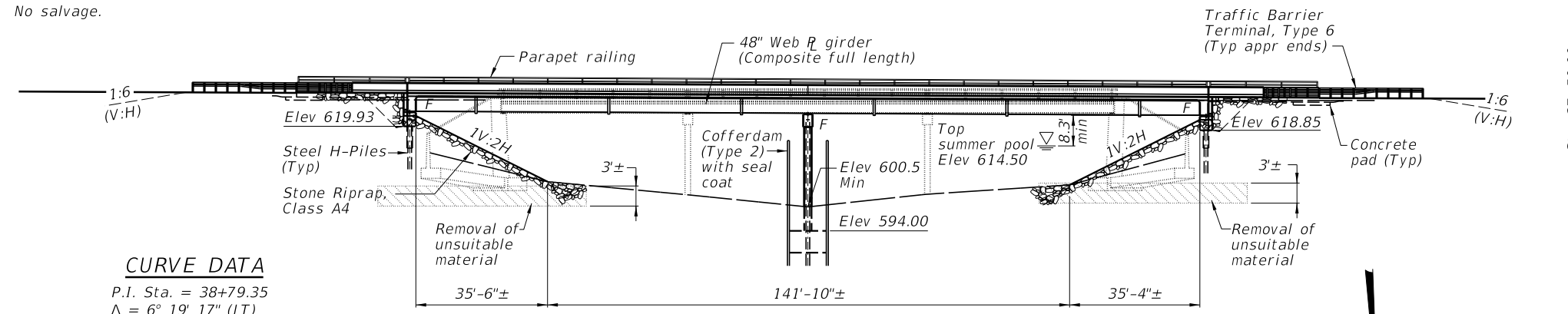
Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

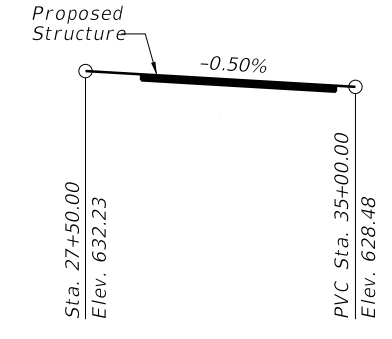
Seismic Performance Zone (SPZ) = 2  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.152g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.274g  
 Soil Site Class = D

**CURVE DATA**

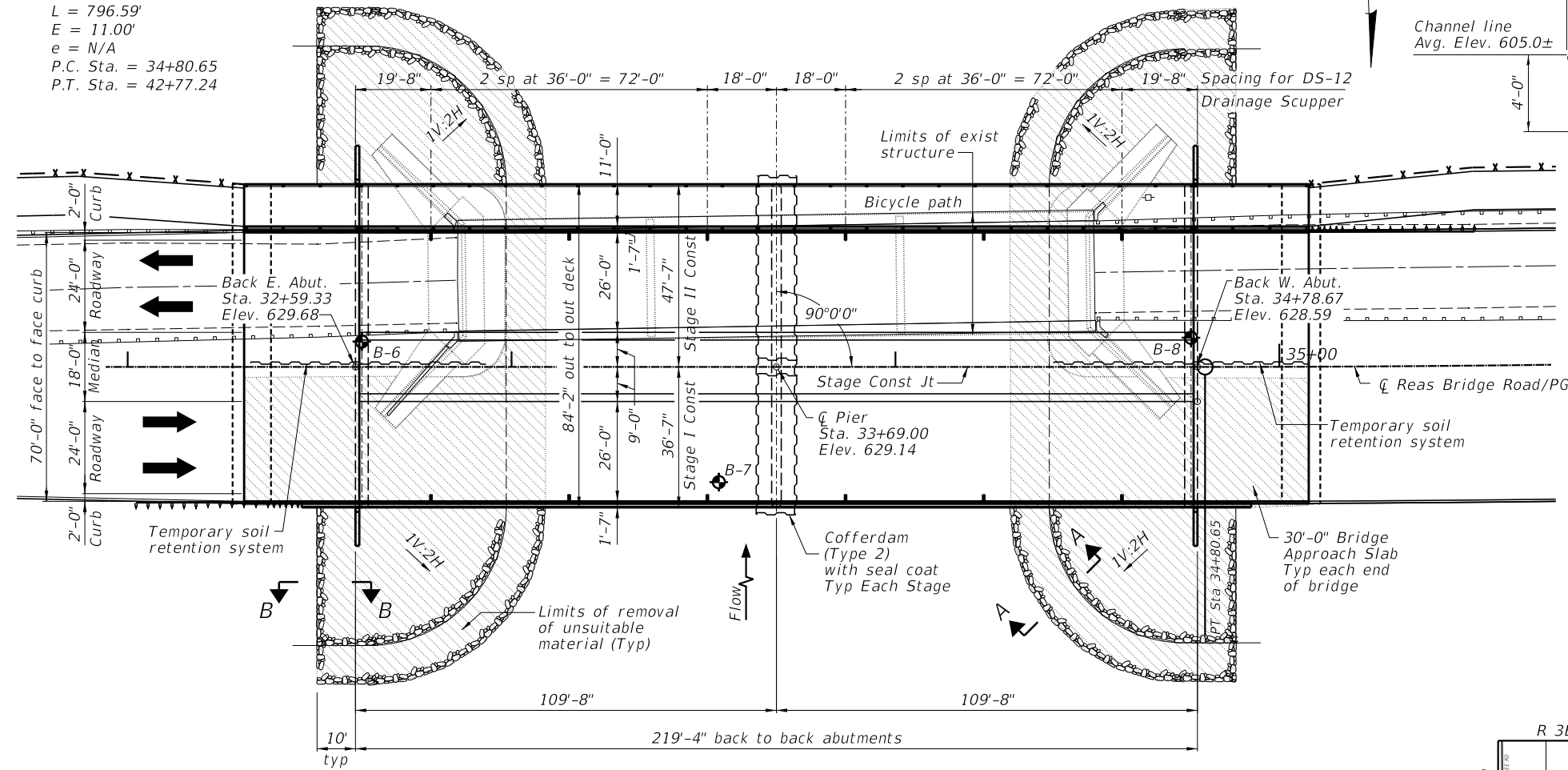
P.I. Sta. = 38+79.35  
 $\Delta = 6^\circ 19' 17"$  (LT)  
 $D = 0^\circ 47' 37"$   
 $R = 7,220.00'$   
 $T = 398.70'$   
 $L = 796.59'$   
 $E = 11.00'$   
 $e = N/A$   
 P.C. Sta. = 34+80.65  
 P.T. Sta. = 42+77.24



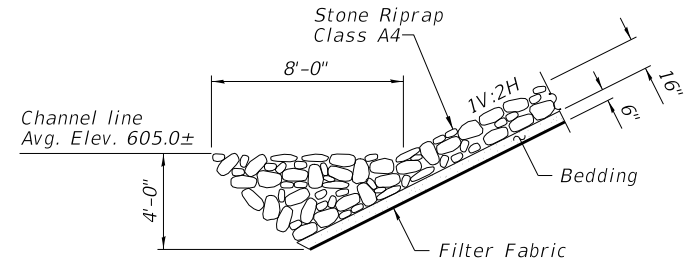
**ELEVATION**



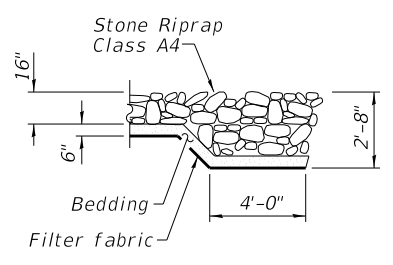
**PROFILE GRADE**  
(Along G.L.)



**PLAN**



**SECTION A-A**



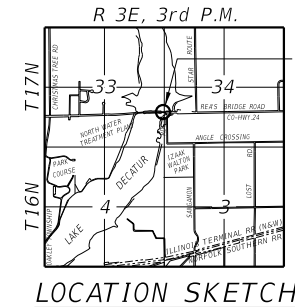
**SECTION B-B**

REAS BRIDGE ROAD OVER  
 LAKE DECATUR  
 BUILT 20 BY  
 MACON COUNTY  
 SECTION 12-00251-00-BR  
 STA 33+69.00  
 STR. NO. 058-3409 LOADING HL-93

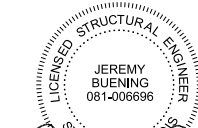
**NAME PLATE**  
 See Std. 515001

**DESIGN SCOUR ELEVATION TABLE**

| Event / Limit State | Design Scour Elevations (ft.) |       |          | Item 113 |
|---------------------|-------------------------------|-------|----------|----------|
|                     | E. Abut.                      | Pier  | W. Abut. |          |
| Q100                | 619.9                         | 587.9 | 618.9    | 5        |
| Q200                | 619.9                         | 586.5 | 618.9    |          |
| Design              | 619.9                         | 587.9 | 618.9    |          |
| Check               | 619.9                         | 586.5 | 618.9    |          |



**LOCATION SKETCH**



*Jeremy Buening*  
 Jeremy Buening, P.E., S.E.  
 License Expires 11/30/24  
 Date: 2/9/23

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

FILE NAME = i:\Municipalities\Macon County\6487 Reas Bridge Replacement\CADD\Structural\EastBridgeVg&e.dwg

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbuening       | DESIGNED JMB | REVISED - |
| PLOT TIME = 4:57:50 PM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 40.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 2/9/2023       | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 1 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 65        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Structural Data
- 3 Footing Layout
- 4 Stage Construction Details
- 5 Temporary Soil Retention
- 6 Temporary Concrete Barrier for Stage Construction
- 7 Top of Deck Elevations
- 8 Top of Deck Elevations
- 9 Top of Deck Elevations
- 10 Top of East Approach Slab Elevations
- 11 Top of West Approach Slab Elevations
- 12 Superstructure
- 13 Superstructure Details
- 14 Superstructure Details
- 15 Superstructure Details
- 16 Diaphragm Details
- 17 Bridge Approach Slab Details
- 18 Bridge Approach Slab Details
- 19 Bridge Approach Slab Details
- 20 Bicycle Railing
- 21 Drainage Scupper, DS-12
- 22 Framing Plan and Details
- 23 Framing Details
- 24 Moment Tables
- 25 Bearing Details
- 26 East Abutment
- 27 West Abutment
- 28 Abutment Details
- 29 Pier
- 30 Pier Details
- 31 HP Pile Details
- 32 Bar Splicer Assembly and Mechanical Splicer Details
- 33 Subsurface Data Profile

**GENERAL NOTES:**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas.  
Bolts 7/8" Ø in holes 1 1/16" Ø, unless otherwise noted.

Calculated weight of Structural Steel = 541,830 lb

All structural steel shall be AASHTO M270 Grade 50W

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the CONTRACTOR elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

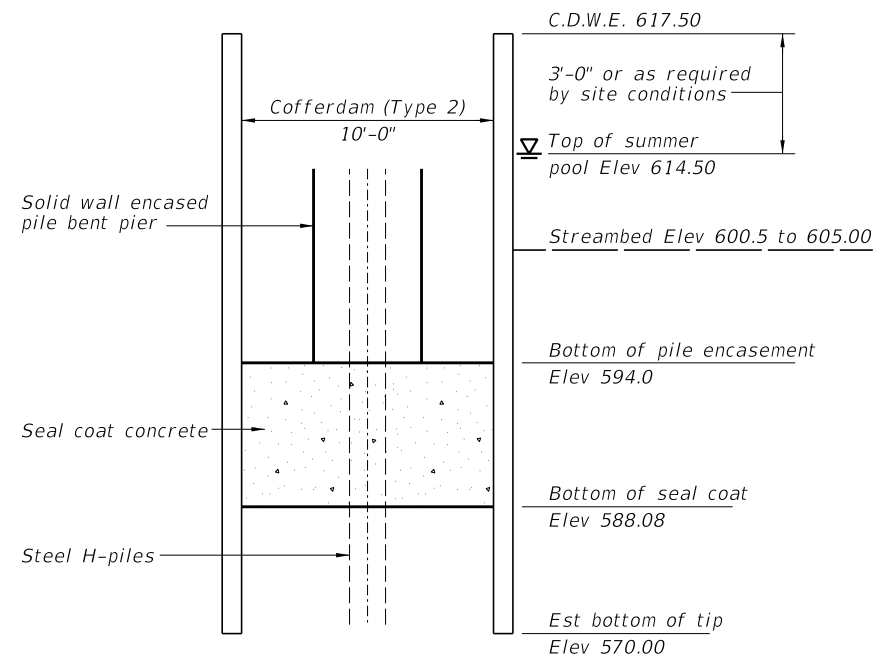
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the ENGINEER.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The CONTRACTOR shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the ENGINEER for approval with the cofferdam design.

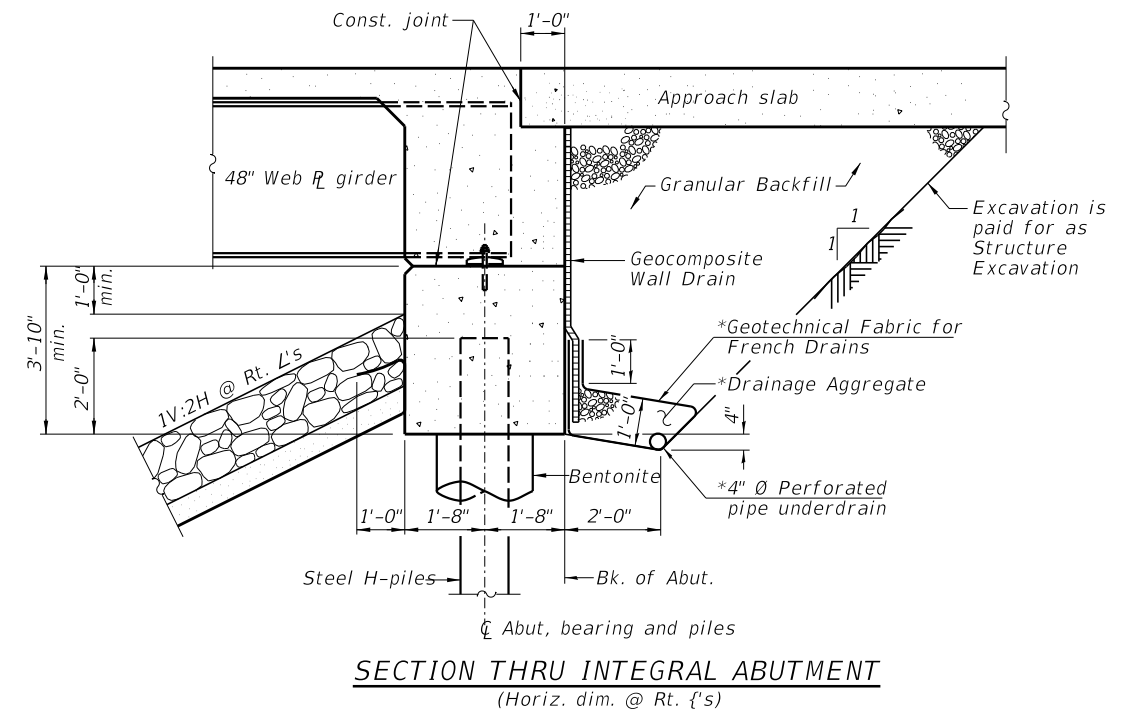
Slipforming of parapets is not allowed.



**SEAL COAT SCHEMATIC**

**TOTAL BILL OF MATERIAL**

| Item                                     | Unit    | Super   | Sub    | Total   |
|--|---------|---------|--------|---------|
| Removal of Existing Structures No. 1     | Each    | 1       | ---    | 1       |
| Structure Excavation                     | Cu. Yd. | ---     | 153    | 153     |
| Cofferdam Excavation                     | Cu. Yd. | ---     | 473    | 473     |
| Cofferdam (Type 2) (Location - D)        | Each    | ---     | 1      | 1       |
| Concrete Structures                      | Cu. Yd. | ---     | 367.0  | 367.0   |
| Concrete Superstructure                  | Cu. Yd. | 675.0   | ---    | 675.0   |
| Bridge Deck Grooving                     | Sq. Yd. | 1710    | ---    | 1710    |
| Seal Coat Concrete                       | Cu. Yd. | ---     | 201    | 201     |
| Protective Coat                          | Sq. Yd. | 2740    | ---    | 2740    |
| Concrete Superstructure (Approach Slab)  | Cu. Yd. | 232.8   | ---    | 232.8   |
| Furnishing and Erecting Structural Steel | L. Sum  | 0.5     | ---    | 0.5     |
| Stud Shear Connectors                    | Each    | 6039    | ---    | 6039    |
| Reinforcement Bars, Epoxy Coated         | Pound   | 247,140 | 32,090 | 279,230 |
| Bar Splicers                             | Each    | 1274    | 114    | 1388    |
| Bicycle Railing                          | Foot    | 273     | ---    | 273     |
| Parapet Railing                          | Foot    | 273     | ---    | 273     |
| Furnishing Steel Piles HP14x73           | Foot    | ---     | 2610   | 2610    |
| Driving Piles                            | Foot    | ---     | 2610   | 2610    |
| Test Pile Steel HP14x73                  | Each    | ---     | 3      | 3       |
| Name Plates                              | Each    | 1       | ---    | 1       |
| Anchor Bolts, 1"                         | Each    | ---     | 44     | 44      |
| Anchor Bolts, 1 1/4"                     | Each    | ---     | 22     | 22      |
| Temporary Soil Retention System          | Sq. Ft. | ---     | 1263   | 1263    |
| Geocomposite Wall Drain                  | Sq. Yd. | ---     | 178    | 178     |
| Granular Backfill for Structures         | Cu. Yd. | ---     | 323    | 323     |
| Drainage Scuppers, DS-12                 | Each    | 12      | ---    | 12      |
| Pipe Underdrains for Structures 4"       | Foot    | ---     | 242    | 242     |



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. {s})

\*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridgeStructdata.dgn

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| PLOT DATE = 1/25/2022  | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

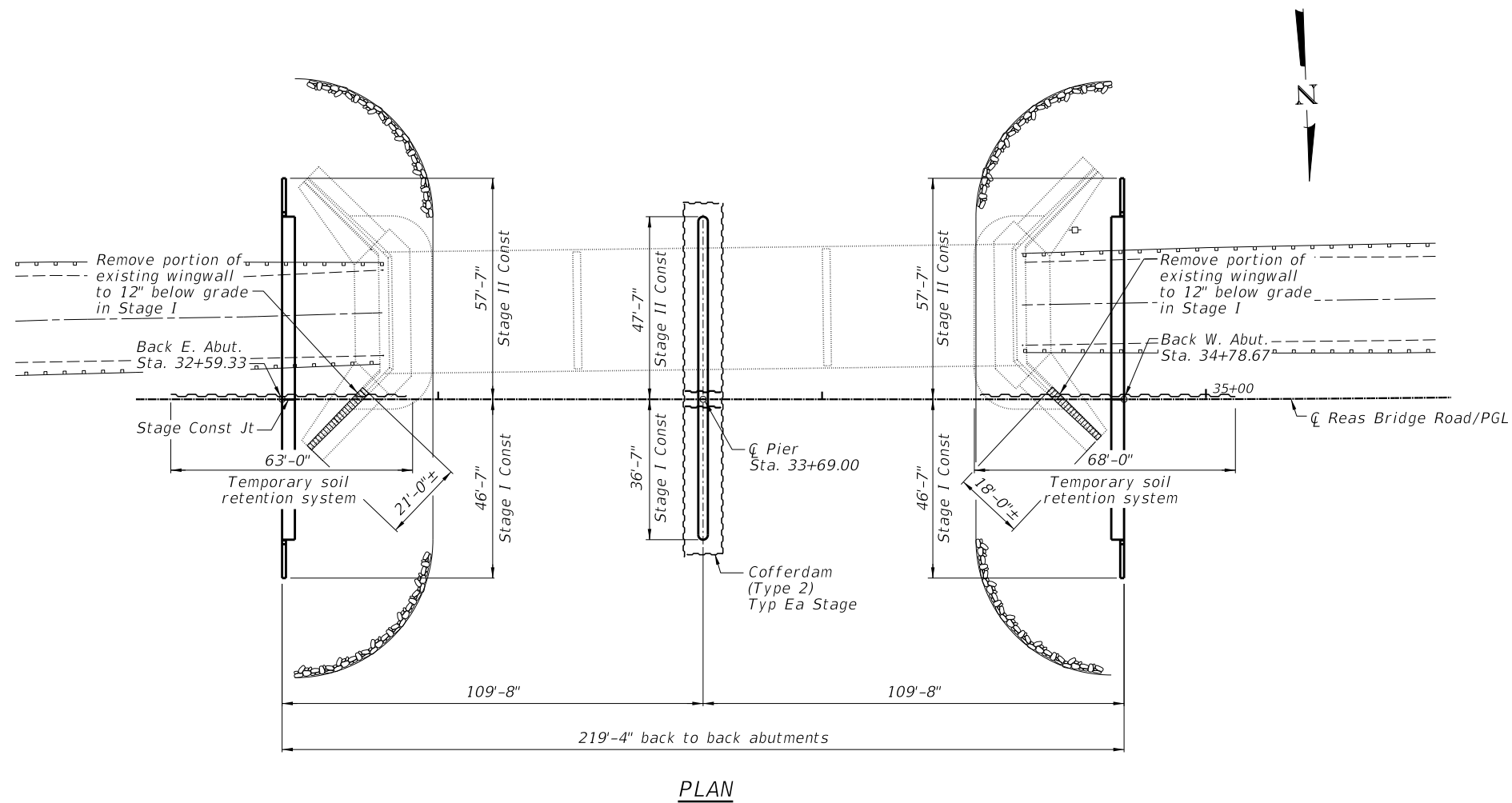
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**GENERAL STRUCTURAL DATA**  
**STRUCTURE NO. 058-3409**

SHEET NO. 2 OF 33 SHEETS

|                    |                |        |                           |           |
|--------------------|----------------|--------|---------------------------|-----------|
| FAU RTE            | SECTION        | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 7355               | 12-00251-00-BR | MACON  | 196                       | 66        |
| CONTRACT NO. 95912 |                |        | ILLINOIS FED. AID PROJECT |           |

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\Footing.dgn



PLAN

|                            |                     |           |
|----------------------------|---------------------|-----------|
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| PLOT SCALE = 40.0000' / 1" | CHECKED <i>BCG</i>  | REVISED - |
| PLOT DATE = 1/25/2022      | DATE                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

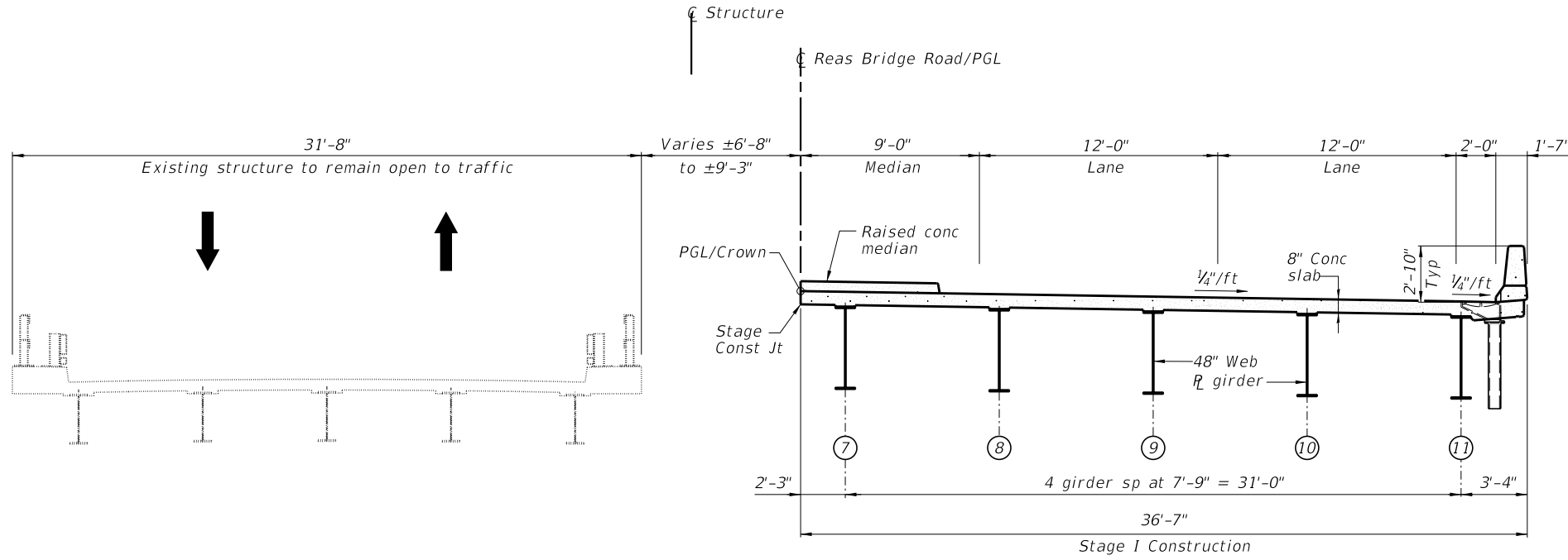
**FOOTING LAYOUT**  
**STRUCTURE NO. 058-3409**

SHEET NO. 3 OF 33 SHEETS

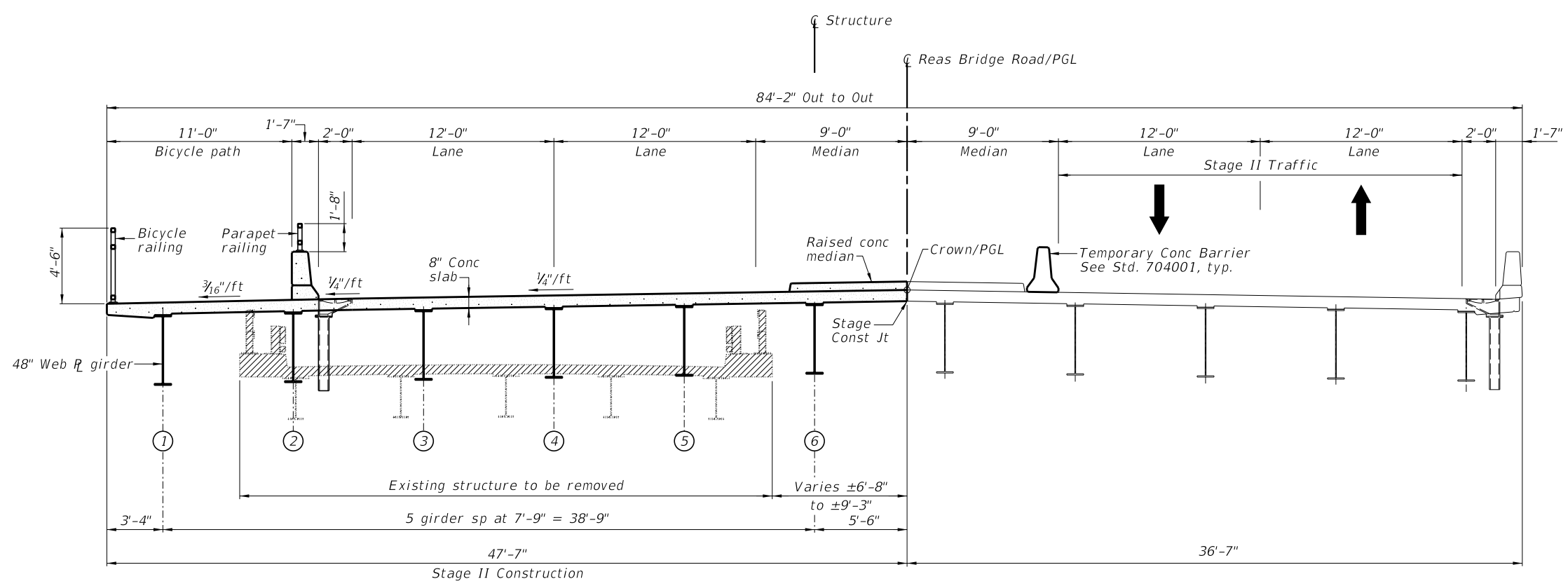
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 67        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

FILE NAME = i:\municipalities\macon county\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\EastBridge\stageconst.dgn



**STAGE I CONSTRUCTION**  
Looking West



**STAGE II CONSTRUCTION**  
Looking West

|                         |              |           |
|-------------------------|--------------|-----------|
| USER NAME = jbuening    | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:08:12 AM | DRAWN RLK    | REVISED - |
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| PLOT DATE = 1/25/2022   | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
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DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

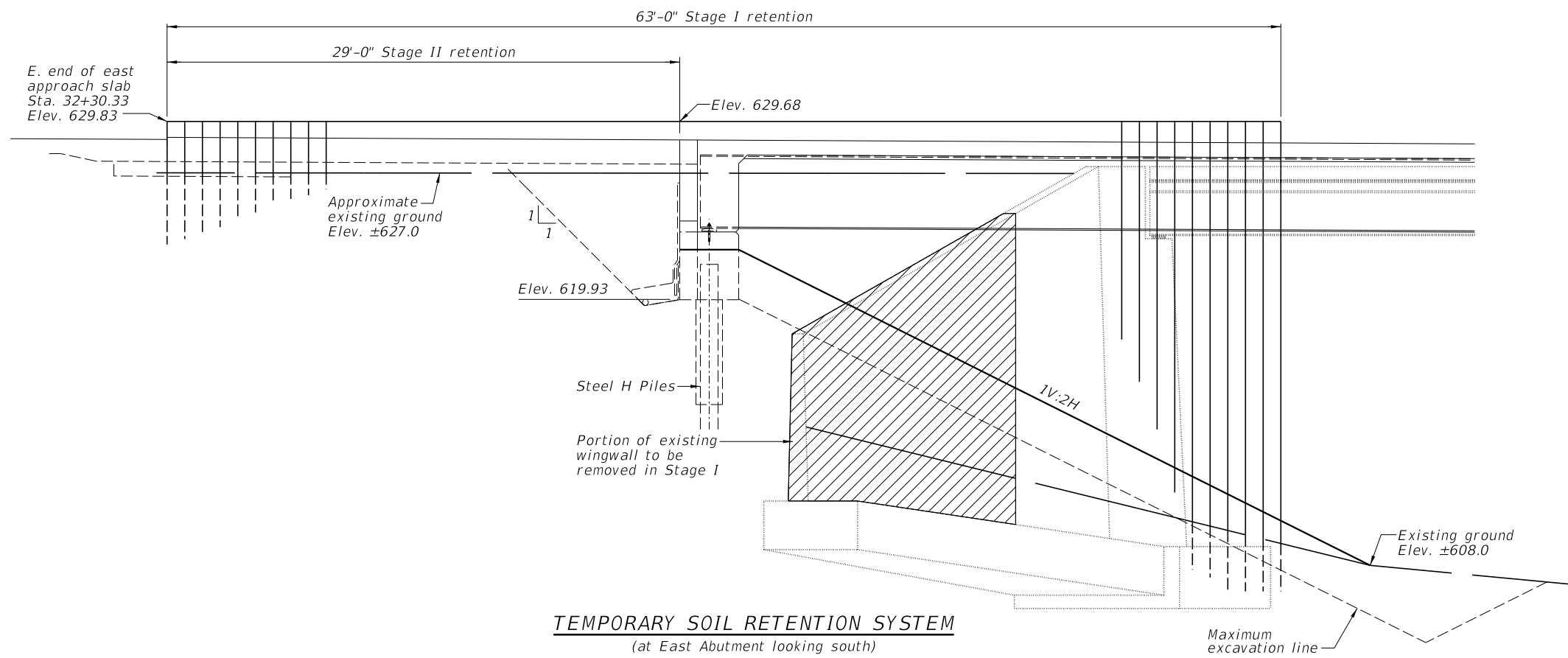
**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 4 OF 33 SHEETS

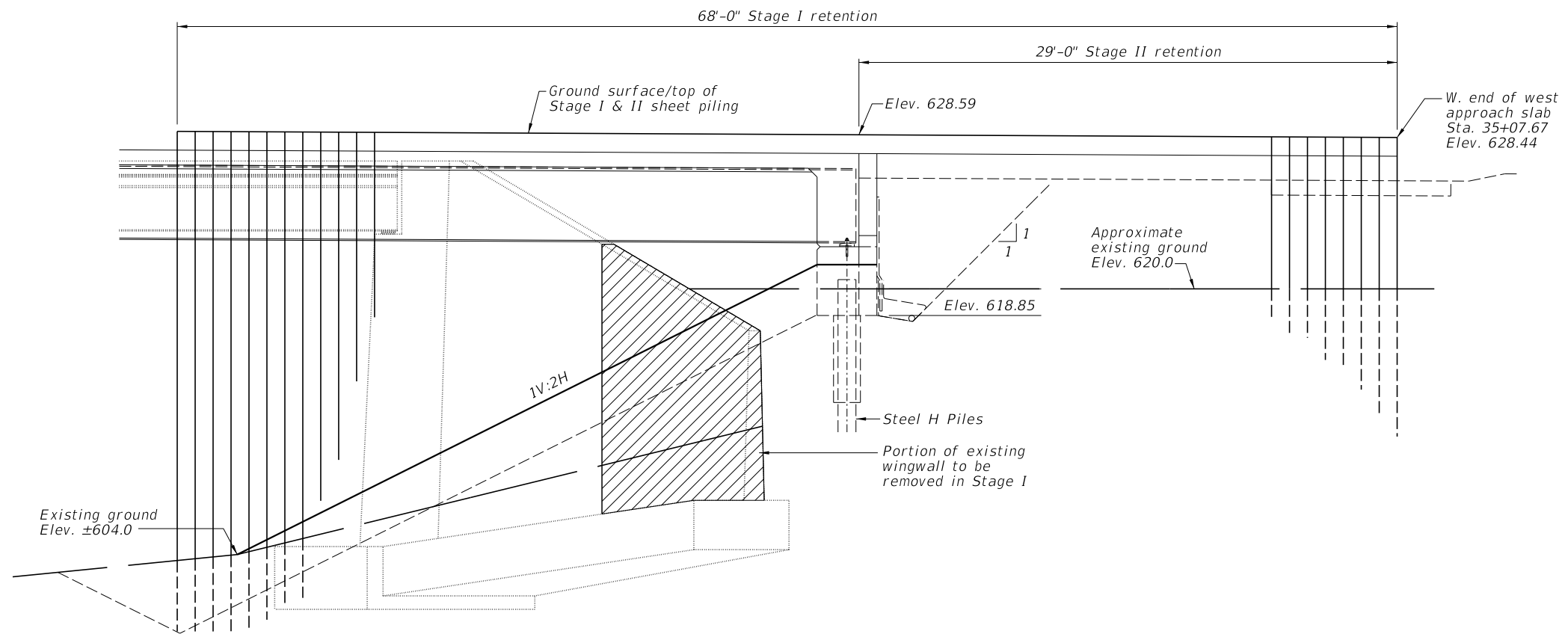
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 68        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT





**TEMPORARY SOIL RETENTION SYSTEM**  
(at East Abutment looking south)



**TEMPORARY SOIL RETENTION SYSTEM**  
(at West Abutment looking south)

FILE NAME = i:\municipalities\macon\macon-county\6487-reos-bridge-road-bridge-replacement\cadd\structural\east-bridge-temp-sheet.dgn

|  |              |           |
|--|--------------|-----------|
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| PLOT DATE = 1/25/2022  | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (317) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

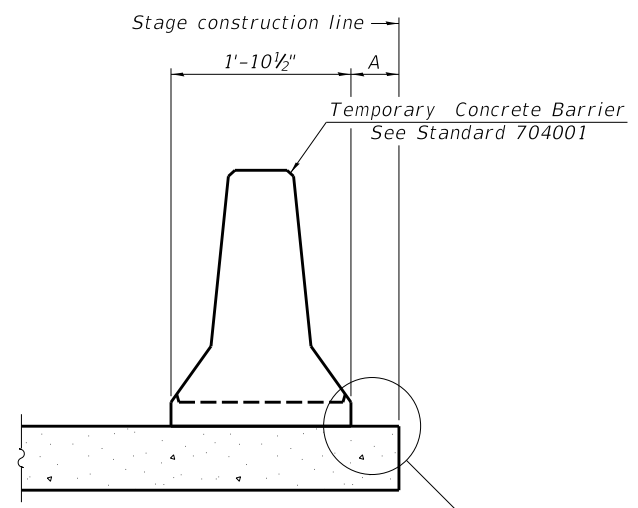
**TEMPORARY SOIL RETENTION**  
**STRUCTURE NO. 058-3409**

SHEET NO. 5 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
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| <b>CONTRACT NO. 95912</b> |                |        |              |           |

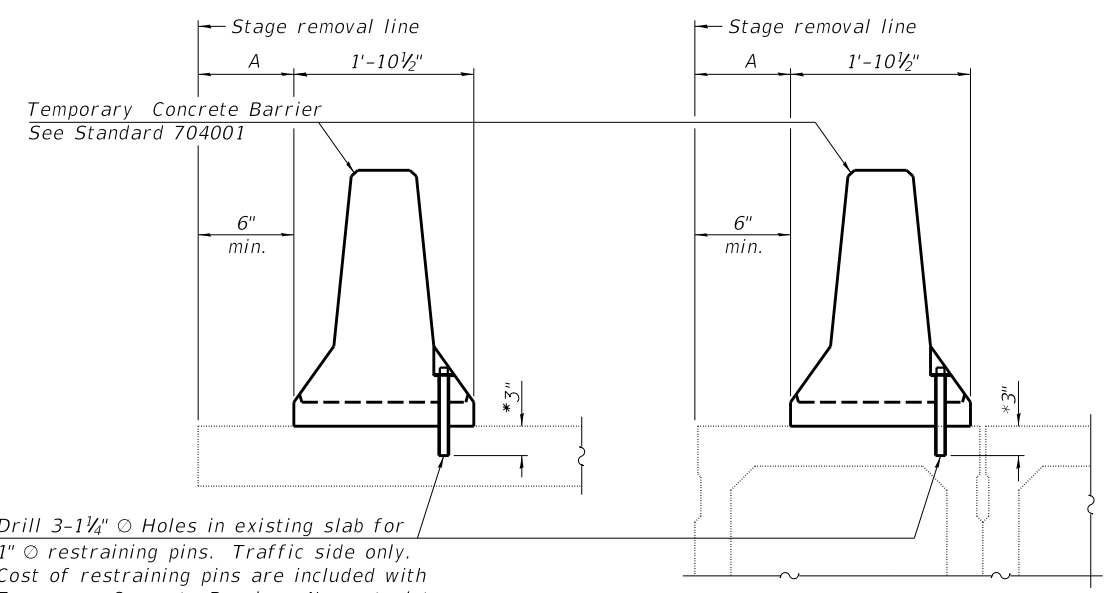
ILLINOIS FED. AID PROJECT

FILE NAME = i:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\tempbar-err.dgn



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

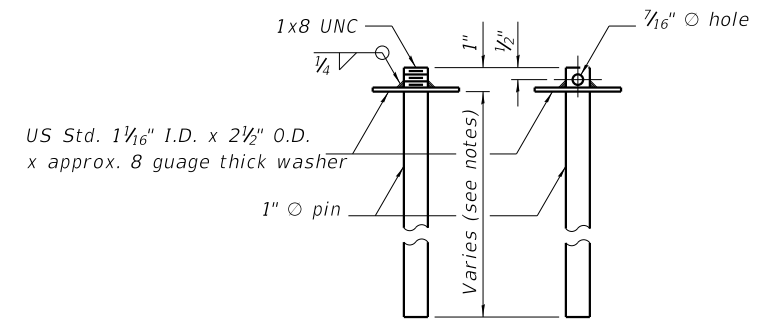
NEW SLAB OR NEW DECK BEAM



Drill 3-1/4" O Holes in existing slab for 1" O restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

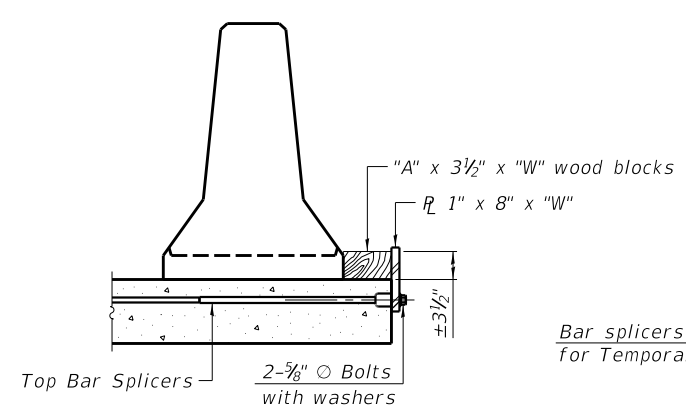
EXISTING SLAB  
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

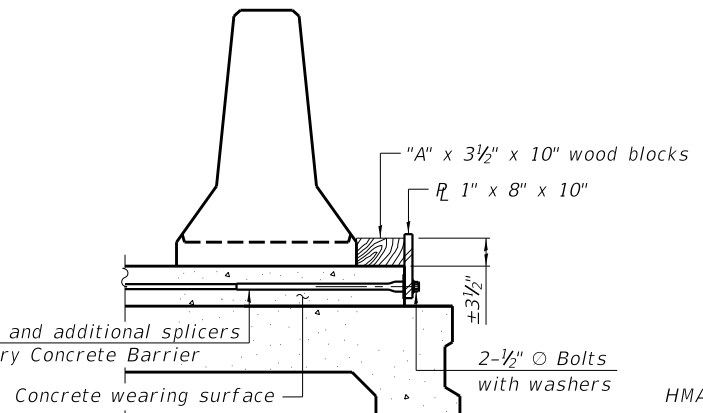


US Std. 1/16" I.D. x 2 1/2" O.D. x approx. 8 guage thick washer

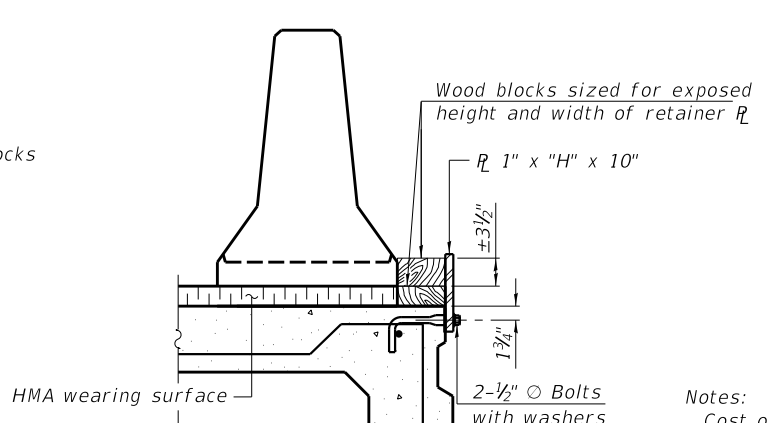
RESTRAINING PIN



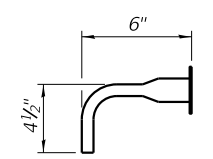
DETAIL I



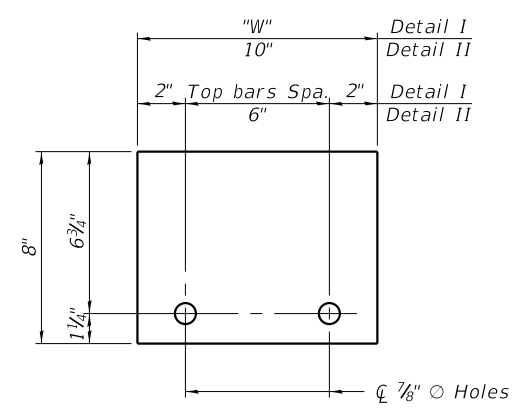
DETAIL II



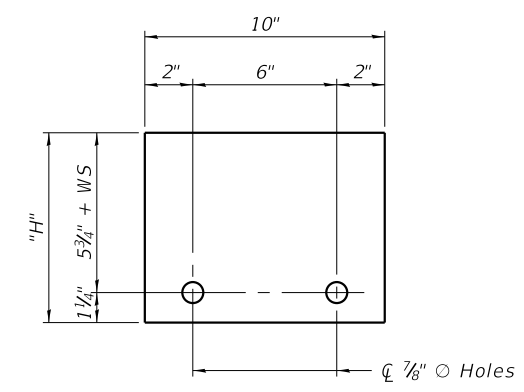
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"  
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"  
(Detail III)

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.  
 Detail I - Installation for a new bridge deck or bridge slab.  
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 2-17-2017

|                                |              |           |
|--------------------------------|--------------|-----------|
| USER NAME = jbuening           | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:10:44 AM        | DRAWN RLK    | REVISED - |
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| PLOT DATE = 1/25/2022          | DATE         | REVISED - |

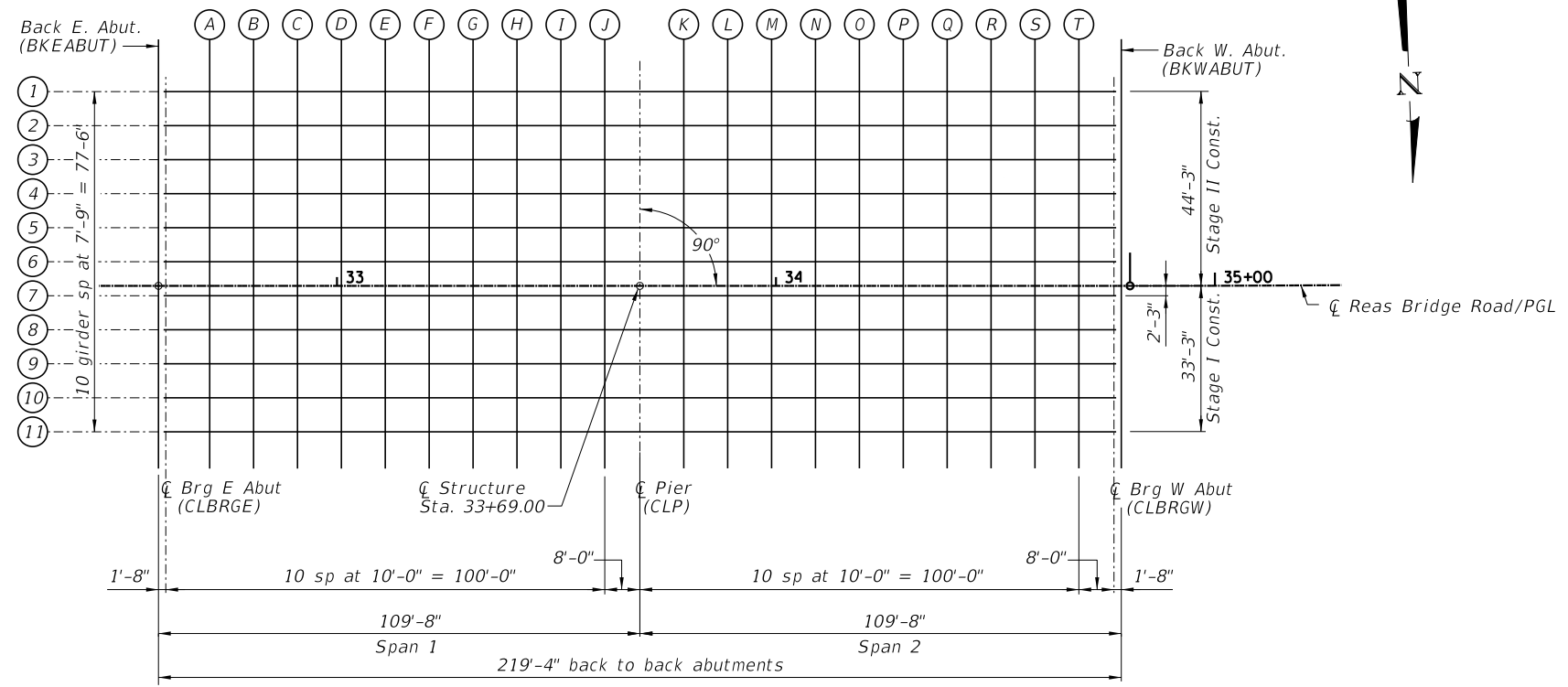
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

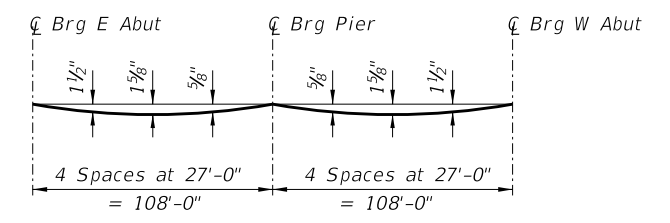
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION**  
**STRUCTURE NO. 058-3409**

SHEET NO. 6 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 70        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

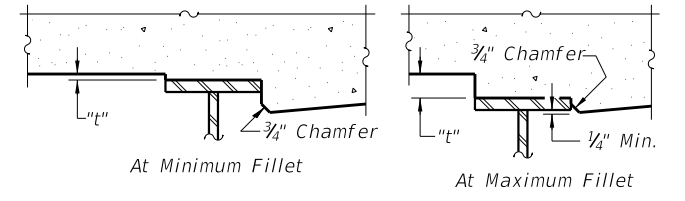


DECK ELEVATION LAYOUT



DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the ENGINEER is working from the grade elevations adjusted for dead load deflections as shown in the tables on Sheets 7 thru 9 of 33.



FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown in the tables. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 7 thru 9 of 33, minus slab thickness, equals the fillet heights "t" above top flange of beams.

GIRDER 1

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -44.25 | 628.81                      | 628.81   |
| CLBRGE   | 32+61.00 | -44.25 | 628.80                      | 628.80   |
| A        | 32+71.00 | -44.25 | 628.75                      | 628.80   |
| B        | 32+81.00 | -44.25 | 628.70                      | 628.80   |
| C        | 32+91.00 | -44.25 | 628.65                      | 628.78   |
| D        | 33+01.00 | -44.25 | 628.60                      | 628.74   |
| E        | 33+11.00 | -44.25 | 628.55                      | 628.69   |
| F        | 33+21.00 | -44.25 | 628.50                      | 628.62   |
| G        | 33+31.00 | -44.25 | 628.45                      | 628.54   |
| H        | 33+41.00 | -44.25 | 628.40                      | 628.46   |
| I        | 33+51.00 | -44.25 | 628.35                      | 628.38   |
| J        | 33+61.00 | -44.25 | 628.30                      | 628.31   |
| CLP      | 33+69.00 | -44.25 | 628.26                      | 628.26   |
| K        | 33+79.00 | -44.25 | 628.21                      | 628.22   |
| L        | 33+89.00 | -44.25 | 628.16                      | 628.20   |
| M        | 33+99.00 | -44.25 | 628.11                      | 628.18   |
| N        | 34+09.00 | -44.25 | 628.06                      | 628.16   |
| O        | 34+19.00 | -44.25 | 628.01                      | 628.14   |
| P        | 34+29.00 | -44.25 | 627.96                      | 628.10   |
| Q        | 34+39.00 | -44.25 | 627.91                      | 628.05   |
| R        | 34+49.00 | -44.25 | 627.86                      | 627.98   |
| S        | 34+59.00 | -44.25 | 627.81                      | 627.90   |
| T        | 34+69.00 | -44.25 | 627.76                      | 627.80   |
| CLBRGW   | 34+77.00 | -44.25 | 627.72                      | 627.72   |
| BKWABUT  | 34+78.67 | -44.25 | 627.71                      | 627.71   |

GIRDER 2

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -36.50 | 628.93                      | 628.93   |
| CLBRGE   | 32+61.00 | -36.50 | 628.92                      | 628.92   |
| A        | 32+71.00 | -36.50 | 628.87                      | 628.93   |
| B        | 32+81.00 | -36.50 | 628.82                      | 628.92   |
| C        | 32+91.00 | -36.50 | 628.77                      | 628.90   |
| D        | 33+01.00 | -36.50 | 628.72                      | 628.86   |
| E        | 33+11.00 | -36.50 | 628.67                      | 628.81   |
| F        | 33+21.00 | -36.50 | 628.62                      | 628.74   |
| G        | 33+31.00 | -36.50 | 628.57                      | 628.66   |
| H        | 33+41.00 | -36.50 | 628.52                      | 628.58   |
| I        | 33+51.00 | -36.50 | 628.47                      | 628.50   |
| J        | 33+61.00 | -36.50 | 628.42                      | 628.43   |
| CLP      | 33+69.00 | -36.50 | 628.38                      | 628.38   |
| K        | 33+79.00 | -36.50 | 628.33                      | 628.34   |
| L        | 33+89.00 | -36.50 | 628.28                      | 628.32   |
| M        | 33+99.00 | -36.50 | 628.23                      | 628.30   |
| N        | 34+09.00 | -36.50 | 628.18                      | 628.28   |
| O        | 34+19.00 | -36.50 | 628.13                      | 628.26   |
| P        | 34+29.00 | -36.50 | 628.08                      | 628.22   |
| Q        | 34+39.00 | -36.50 | 628.03                      | 628.17   |
| R        | 34+49.00 | -36.50 | 627.98                      | 628.11   |
| S        | 34+59.00 | -36.50 | 627.93                      | 628.02   |
| T        | 34+69.00 | -36.50 | 627.88                      | 627.93   |
| CLBRGW   | 34+77.00 | -36.50 | 627.84                      | 627.84   |
| BKWABUT  | 34+78.67 | -36.50 | 627.83                      | 627.83   |

GIRDER 3

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -28.75 | 629.08                      | 629.08   |
| CLBRGE   | 32+61.00 | -28.75 | 629.08                      | 629.08   |
| A        | 32+71.00 | -28.75 | 629.03                      | 629.08   |
| B        | 32+81.00 | -28.75 | 628.98                      | 629.07   |
| C        | 32+91.00 | -28.75 | 628.93                      | 629.05   |
| D        | 33+01.00 | -28.75 | 628.88                      | 629.02   |
| E        | 33+11.00 | -28.75 | 628.83                      | 628.96   |
| F        | 33+21.00 | -28.75 | 628.78                      | 628.90   |
| G        | 33+31.00 | -28.75 | 628.73                      | 628.82   |
| H        | 33+41.00 | -28.75 | 628.68                      | 628.73   |
| I        | 33+51.00 | -28.75 | 628.63                      | 628.66   |
| J        | 33+61.00 | -28.75 | 628.58                      | 628.58   |
| CLP      | 33+69.00 | -28.75 | 628.54                      | 628.54   |
| K        | 33+79.00 | -28.75 | 628.49                      | 628.50   |
| L        | 33+89.00 | -28.75 | 628.44                      | 628.47   |
| M        | 33+99.00 | -28.75 | 628.39                      | 628.45   |
| N        | 34+09.00 | -28.75 | 628.34                      | 628.43   |
| O        | 34+19.00 | -28.75 | 628.29                      | 628.41   |
| P        | 34+29.00 | -28.75 | 628.24                      | 628.38   |
| Q        | 34+39.00 | -28.75 | 628.19                      | 628.33   |
| R        | 34+49.00 | -28.75 | 628.14                      | 628.26   |
| S        | 34+59.00 | -28.75 | 628.09                      | 628.18   |
| T        | 34+69.00 | -28.75 | 628.04                      | 628.08   |
| CLBRGW   | 34+77.00 | -28.75 | 628.00                      | 628.00   |
| BKWABUT  | 34+78.67 | -28.75 | 627.99                      | 627.99   |

FILE NAME = i:\Municipalities\Macon County\6487 Reas Bridge Replacement\CADD\Structural\EastBridge\Deck\Deck.dgn

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbenning       | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:57:11 PM    | DRAWN RLK    | REVISED - |
| PLOT SCALE = 40.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022      | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS  
 DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**TOP OF DECK ELEVATIONS**  
**STRUCTURE NO. 058-3409**  
SHEET NO. 7 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE                   | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 71        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

**GIRDER 4**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -21.00 | 629.25                      | 629.25   |
| CLBRGE   | 32+61.00 | -21.00 | 629.24                      | 629.24   |
| A        | 32+71.00 | -21.00 | 629.19                      | 629.24   |
| B        | 32+81.00 | -21.00 | 629.14                      | 629.24   |
| C        | 32+91.00 | -21.00 | 629.09                      | 629.22   |
| D        | 33+01.00 | -21.00 | 629.04                      | 629.18   |
| E        | 33+11.00 | -21.00 | 628.99                      | 629.13   |
| F        | 33+21.00 | -21.00 | 628.94                      | 629.06   |
| G        | 33+31.00 | -21.00 | 628.89                      | 628.98   |
| H        | 33+41.00 | -21.00 | 628.84                      | 628.90   |
| I        | 33+51.00 | -21.00 | 628.79                      | 628.82   |
| J        | 33+61.00 | -21.00 | 628.74                      | 628.75   |
| CLP      | 33+69.00 | -21.00 | 628.70                      | 628.70   |
| K        | 33+79.00 | -21.00 | 628.65                      | 628.66   |
| L        | 33+89.00 | -21.00 | 628.60                      | 628.63   |
| M        | 33+99.00 | -21.00 | 628.55                      | 628.61   |
| N        | 34+09.00 | -21.00 | 628.50                      | 628.59   |
| O        | 34+19.00 | -21.00 | 628.45                      | 628.57   |
| P        | 34+29.00 | -21.00 | 628.40                      | 628.54   |
| Q        | 34+39.00 | -21.00 | 628.35                      | 628.49   |
| R        | 34+49.00 | -21.00 | 628.30                      | 628.42   |
| S        | 34+59.00 | -21.00 | 628.25                      | 628.34   |
| T        | 34+69.00 | -21.00 | 628.20                      | 628.24   |
| CLBRGW   | 34+77.00 | -21.00 | 628.16                      | 628.16   |
| BKWABUT  | 34+78.67 | -21.00 | 628.15                      | 628.15   |

**GIRDER 5**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -13.25 | 629.41                      | 629.41   |
| CLBRGE   | 32+61.00 | -13.25 | 629.40                      | 629.40   |
| A        | 32+71.00 | -13.25 | 629.35                      | 629.40   |
| B        | 32+81.00 | -13.25 | 629.30                      | 629.40   |
| C        | 32+91.00 | -13.25 | 629.25                      | 629.38   |
| D        | 33+01.00 | -13.25 | 629.20                      | 629.34   |
| E        | 33+11.00 | -13.25 | 629.15                      | 629.29   |
| F        | 33+21.00 | -13.25 | 629.10                      | 629.22   |
| G        | 33+31.00 | -13.25 | 629.05                      | 629.14   |
| H        | 33+41.00 | -13.25 | 629.00                      | 629.06   |
| I        | 33+51.00 | -13.25 | 628.95                      | 628.98   |
| J        | 33+61.00 | -13.25 | 628.90                      | 628.91   |
| CLP      | 33+69.00 | -13.25 | 628.86                      | 628.86   |
| K        | 33+79.00 | -13.25 | 628.81                      | 628.82   |
| L        | 33+89.00 | -13.25 | 628.76                      | 628.79   |
| M        | 33+99.00 | -13.25 | 628.71                      | 628.77   |
| N        | 34+09.00 | -13.25 | 628.66                      | 628.76   |
| O        | 34+19.00 | -13.25 | 628.61                      | 628.73   |
| P        | 34+29.00 | -13.25 | 628.56                      | 628.70   |
| Q        | 34+39.00 | -13.25 | 628.51                      | 628.65   |
| R        | 34+49.00 | -13.25 | 628.46                      | 628.58   |
| S        | 34+59.00 | -13.25 | 628.41                      | 628.50   |
| T        | 34+69.00 | -13.25 | 628.36                      | 628.40   |
| CLBRGW   | 34+77.00 | -13.25 | 628.32                      | 628.32   |
| BKWABUT  | 34+78.67 | -13.25 | 628.31                      | 628.31   |

**GIRDER 6**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | -5.50  | 629.57                      | 629.57   |
| CLBRGE   | 32+61.00 | -5.50  | 629.56                      | 629.56   |
| A        | 32+71.00 | -5.50  | 629.51                      | 629.56   |
| B        | 32+81.00 | -5.50  | 629.46                      | 629.56   |
| C        | 32+91.00 | -5.50  | 629.41                      | 629.54   |
| D        | 33+01.00 | -5.50  | 629.36                      | 629.50   |
| E        | 33+11.00 | -5.50  | 629.31                      | 629.45   |
| F        | 33+21.00 | -5.50  | 629.26                      | 629.38   |
| G        | 33+31.00 | -5.50  | 629.21                      | 629.30   |
| H        | 33+41.00 | -5.50  | 629.16                      | 629.22   |
| I        | 33+51.00 | -5.50  | 629.11                      | 629.14   |
| J        | 33+61.00 | -5.50  | 629.06                      | 629.07   |
| CLP      | 33+69.00 | -5.50  | 629.02                      | 629.02   |
| K        | 33+79.00 | -5.50  | 628.97                      | 628.98   |
| L        | 33+89.00 | -5.50  | 628.92                      | 628.95   |
| M        | 33+99.00 | -5.50  | 628.87                      | 628.94   |
| N        | 34+09.00 | -5.50  | 628.82                      | 628.92   |
| O        | 34+19.00 | -5.50  | 628.77                      | 628.90   |
| P        | 34+29.00 | -5.50  | 628.72                      | 628.86   |
| Q        | 34+39.00 | -5.50  | 628.67                      | 628.81   |
| R        | 34+49.00 | -5.50  | 628.62                      | 628.74   |
| S        | 34+59.00 | -5.50  | 628.57                      | 628.66   |
| T        | 34+69.00 | -5.50  | 628.52                      | 628.56   |
| CLBRGW   | 34+77.00 | -5.50  | 628.48                      | 628.48   |
| BKWABUT  | 34+78.67 | -5.50  | 628.47                      | 628.47   |

**CL REAS BRIDGE ROAD/PGL**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 0.00   | 629.68                      | 629.68   |
| CLBRGE   | 32+61.00 | 0.00   | 629.67                      | 629.67   |
| A        | 32+71.00 | 0.00   | 629.62                      | 629.68   |
| B        | 32+81.00 | 0.00   | 629.57                      | 629.67   |
| C        | 32+91.00 | 0.00   | 629.52                      | 629.65   |
| D        | 33+01.00 | 0.00   | 629.47                      | 629.62   |
| E        | 33+11.00 | 0.00   | 629.42                      | 629.56   |
| F        | 33+21.00 | 0.00   | 629.37                      | 629.49   |
| G        | 33+31.00 | 0.00   | 629.32                      | 629.42   |
| H        | 33+41.00 | 0.00   | 629.27                      | 629.33   |
| I        | 33+51.00 | 0.00   | 629.22                      | 629.25   |
| J        | 33+61.00 | 0.00   | 629.17                      | 629.18   |
| CLP      | 33+69.00 | 0.00   | 629.14                      | 629.14   |
| K        | 33+79.00 | 0.00   | 629.09                      | 629.10   |
| L        | 33+89.00 | 0.00   | 629.04                      | 629.07   |
| M        | 33+99.00 | 0.00   | 628.99                      | 629.05   |
| N        | 34+09.00 | 0.00   | 628.94                      | 629.03   |
| O        | 34+19.00 | 0.00   | 628.89                      | 629.01   |
| P        | 34+29.00 | 0.00   | 628.84                      | 628.98   |
| Q        | 34+39.00 | 0.00   | 628.79                      | 628.93   |
| R        | 34+49.00 | 0.00   | 628.74                      | 628.86   |
| S        | 34+59.00 | 0.00   | 628.69                      | 628.77   |
| T        | 34+69.00 | 0.00   | 628.64                      | 628.68   |
| CLBRGW   | 34+77.00 | 0.00   | 628.60                      | 628.60   |
| BKWABUT  | 34+78.67 | 0.00   | 628.59                      | 628.59   |

**GIRDER 7**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 2.25   | 629.64                      | 629.64   |
| CLBRGE   | 32+61.00 | 2.25   | 629.63                      | 629.63   |
| A        | 32+71.00 | 2.25   | 629.58                      | 629.63   |
| B        | 32+81.00 | 2.25   | 629.53                      | 629.63   |
| C        | 32+91.00 | 2.25   | 629.48                      | 629.61   |
| D        | 33+01.00 | 2.25   | 629.43                      | 629.57   |
| E        | 33+11.00 | 2.25   | 629.38                      | 629.52   |
| F        | 33+21.00 | 2.25   | 629.33                      | 629.45   |
| G        | 33+31.00 | 2.25   | 629.28                      | 629.37   |
| H        | 33+41.00 | 2.25   | 629.23                      | 629.29   |
| I        | 33+51.00 | 2.25   | 629.18                      | 629.21   |
| J        | 33+61.00 | 2.25   | 629.13                      | 629.14   |
| CLP      | 33+69.00 | 2.25   | 629.09                      | 629.09   |
| K        | 33+79.00 | 2.25   | 629.04                      | 629.05   |
| L        | 33+89.00 | 2.25   | 628.99                      | 629.02   |
| M        | 33+99.00 | 2.25   | 628.94                      | 629.00   |
| N        | 34+09.00 | 2.25   | 628.89                      | 628.99   |
| O        | 34+19.00 | 2.25   | 628.84                      | 628.96   |
| P        | 34+29.00 | 2.25   | 628.79                      | 628.93   |
| Q        | 34+39.00 | 2.25   | 628.74                      | 628.88   |
| R        | 34+49.00 | 2.25   | 628.69                      | 628.81   |
| S        | 34+59.00 | 2.25   | 628.64                      | 628.73   |
| T        | 34+69.00 | 2.25   | 628.59                      | 628.63   |
| CLBRGW   | 34+77.00 | 2.25   | 628.55                      | 628.55   |
| BKWABUT  | 34+78.67 | 2.25   | 628.54                      | 628.54   |

**GIRDER 8**

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 10.00  | 629.48                      | 629.48   |
| CLBRGE   | 32+61.00 | 10.00  | 629.47                      | 629.47   |
| A        | 32+71.00 | 10.00  | 629.42                      | 629.47   |
| B        | 32+81.00 | 10.00  | 629.37                      | 629.46   |
| C        | 32+91.00 | 10.00  | 629.32                      | 629.45   |
| D        | 33+01.00 | 10.00  | 629.27                      | 629.41   |
| E        | 33+11.00 | 10.00  | 629.22                      | 629.36   |
| F        | 33+21.00 | 10.00  | 629.17                      | 629.29   |
| G        | 33+31.00 | 10.00  | 629.12                      | 629.21   |
| H        | 33+41.00 | 10.00  | 629.07                      | 629.13   |
| I        | 33+51.00 | 10.00  | 629.02                      | 629.05   |
| J        | 33+61.00 | 10.00  | 628.97                      | 628.97   |
| CLP      | 33+69.00 | 10.00  | 628.93                      | 628.93   |
| K        | 33+79.00 | 10.00  | 628.88                      | 628.89   |
| L        | 33+89.00 | 10.00  | 628.83                      | 628.86   |
| M        | 33+99.00 | 10.00  | 628.78                      | 628.84   |
| N        | 34+09.00 | 10.00  | 628.73                      | 628.82   |
| O        | 34+19.00 | 10.00  | 628.68                      | 628.80   |
| P        | 34+29.00 | 10.00  | 628.63                      | 628.77   |
| Q        | 34+39.00 | 10.00  | 628.58                      | 628.72   |
| R        | 34+49.00 | 10.00  | 628.53                      | 628.65   |
| S        | 34+59.00 | 10.00  | 628.48                      | 628.57   |
| T        | 34+69.00 | 10.00  | 628.43                      | 628.47   |
| CLBRGW   | 34+77.00 | 10.00  | 628.39                      | 628.39   |
| BKWABUT  | 34+78.67 | 10.00  | 628.38                      | 628.38   |

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\deckel.dgn

|                             |              |           |
|-----------------------------|--------------|-----------|
| USER NAME = jbenning        | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:57:51 PM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 40.0000' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022       | DATE         | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**TOP OF DECK ELEVATIONS  
 STRUCTURE NO. 058-3409**

SHEET NO. 8 OF 33 SHEETS

| FAU RTE                   | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 72        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

GIRDER 9

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 17.75  | 629.31                      | 629.31   |
| CLBRGE   | 32+61.00 | 17.75  | 629.31                      | 629.31   |
| A        | 32+71.00 | 17.75  | 629.26                      | 629.31   |
| B        | 32+81.00 | 17.75  | 629.21                      | 629.30   |
| C        | 32+91.00 | 17.75  | 629.16                      | 629.28   |
| D        | 33+01.00 | 17.75  | 629.11                      | 629.25   |
| E        | 33+11.00 | 17.75  | 629.06                      | 629.19   |
| F        | 33+21.00 | 17.75  | 629.01                      | 629.12   |
| G        | 33+31.00 | 17.75  | 628.96                      | 629.05   |
| H        | 33+41.00 | 17.75  | 628.91                      | 628.96   |
| I        | 33+51.00 | 17.75  | 628.86                      | 628.88   |
| J        | 33+61.00 | 17.75  | 628.81                      | 628.81   |
| CLP      | 33+69.00 | 17.75  | 628.77                      | 628.77   |
| K        | 33+79.00 | 17.75  | 628.72                      | 628.73   |
| L        | 33+89.00 | 17.75  | 628.67                      | 628.70   |
| M        | 33+99.00 | 17.75  | 628.62                      | 628.68   |
| N        | 34+09.00 | 17.75  | 628.57                      | 628.66   |
| O        | 34+19.00 | 17.75  | 628.52                      | 628.64   |
| P        | 34+29.00 | 17.75  | 628.47                      | 628.61   |
| Q        | 34+39.00 | 17.75  | 628.42                      | 628.56   |
| R        | 34+49.00 | 17.75  | 628.37                      | 628.49   |
| S        | 34+59.00 | 17.75  | 628.32                      | 628.40   |
| T        | 34+69.00 | 17.75  | 628.27                      | 628.31   |
| CLBRGW   | 34+77.00 | 17.75  | 628.23                      | 628.23   |
| BKWABUT  | 34+78.67 | 17.75  | 628.22                      | 628.22   |

GIRDER 10

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 25.50  | 629.15                      | 629.15   |
| CLBRGE   | 32+61.00 | 25.50  | 629.14                      | 629.14   |
| A        | 32+71.00 | 25.50  | 629.09                      | 629.15   |
| B        | 32+81.00 | 25.50  | 629.04                      | 629.14   |
| C        | 32+91.00 | 25.50  | 628.99                      | 629.12   |
| D        | 33+01.00 | 25.50  | 628.94                      | 629.09   |
| E        | 33+11.00 | 25.50  | 628.89                      | 629.03   |
| F        | 33+21.00 | 25.50  | 628.84                      | 628.96   |
| G        | 33+31.00 | 25.50  | 628.79                      | 628.88   |
| H        | 33+41.00 | 25.50  | 628.74                      | 628.80   |
| I        | 33+51.00 | 25.50  | 628.69                      | 628.72   |
| J        | 33+61.00 | 25.50  | 628.64                      | 628.65   |
| CLP      | 33+69.00 | 25.50  | 628.60                      | 628.60   |
| K        | 33+79.00 | 25.50  | 628.55                      | 628.56   |
| L        | 33+89.00 | 25.50  | 628.50                      | 628.54   |
| M        | 33+99.00 | 25.50  | 628.45                      | 628.52   |
| N        | 34+09.00 | 25.50  | 628.40                      | 628.50   |
| O        | 34+19.00 | 25.50  | 628.35                      | 628.48   |
| P        | 34+29.00 | 25.50  | 628.30                      | 628.44   |
| Q        | 34+39.00 | 25.50  | 628.25                      | 628.39   |
| R        | 34+49.00 | 25.50  | 628.20                      | 628.33   |
| S        | 34+59.00 | 25.50  | 628.15                      | 628.24   |
| T        | 34+69.00 | 25.50  | 628.10                      | 628.15   |
| CLBRGW   | 34+77.00 | 25.50  | 628.06                      | 628.06   |
| BKWABUT  | 34+78.67 | 25.50  | 628.06                      | 628.06   |

GIRDER 11

| LOCATION | STATION  | OFFSET | THEORETICAL GRADE ELEVATION | THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION |
|----------|----------|--------|-----------------------------|--|
| BKEABUT  | 32+59.33 | 33.25  | 628.99                      | 628.99   |
| CLBRGE   | 32+61.00 | 33.25  | 628.98                      | 628.98   |
| A        | 32+71.00 | 33.25  | 628.93                      | 628.99   |
| B        | 32+81.00 | 33.25  | 628.88                      | 628.98   |
| C        | 32+91.00 | 33.25  | 628.83                      | 628.96   |
| D        | 33+01.00 | 33.25  | 628.78                      | 628.92   |
| E        | 33+11.00 | 33.25  | 628.73                      | 628.87   |
| F        | 33+21.00 | 33.25  | 628.68                      | 628.80   |
| G        | 33+31.00 | 33.25  | 628.63                      | 628.72   |
| H        | 33+41.00 | 33.25  | 628.58                      | 628.64   |
| I        | 33+51.00 | 33.25  | 628.53                      | 628.56   |
| J        | 33+61.00 | 33.25  | 628.48                      | 628.49   |
| CLP      | 33+69.00 | 33.25  | 628.44                      | 628.44   |
| K        | 33+79.00 | 33.25  | 628.39                      | 628.40   |
| L        | 33+89.00 | 33.25  | 628.34                      | 628.38   |
| M        | 33+99.00 | 33.25  | 628.29                      | 628.36   |
| N        | 34+09.00 | 33.25  | 628.24                      | 628.34   |
| O        | 34+19.00 | 33.25  | 628.19                      | 628.32   |
| P        | 34+29.00 | 33.25  | 628.14                      | 628.28   |
| Q        | 34+39.00 | 33.25  | 628.09                      | 628.23   |
| R        | 34+49.00 | 33.25  | 628.04                      | 628.17   |
| S        | 34+59.00 | 33.25  | 627.99                      | 628.08   |
| T        | 34+69.00 | 33.25  | 627.94                      | 627.99   |
| CLBRGW   | 34+77.00 | 33.25  | 627.90                      | 627.90   |
| BKWABUT  | 34+78.67 | 33.25  | 627.89                      | 627.89   |

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\deckel.dgn

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbenning       | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:58:14 PM    | DRAWN RLK    | REVISED - |
| PLOT SCALE = 40.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022      | DATE         | REVISED - |



DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

TOP OF DECK ELEVATIONS  
 STRUCTURE NO. 058-3409

SHEET NO. 9 OF 33 SHEETS

| FAU RTE                   | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 73        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

SOUTH EDGE OF BICYCLE PATH

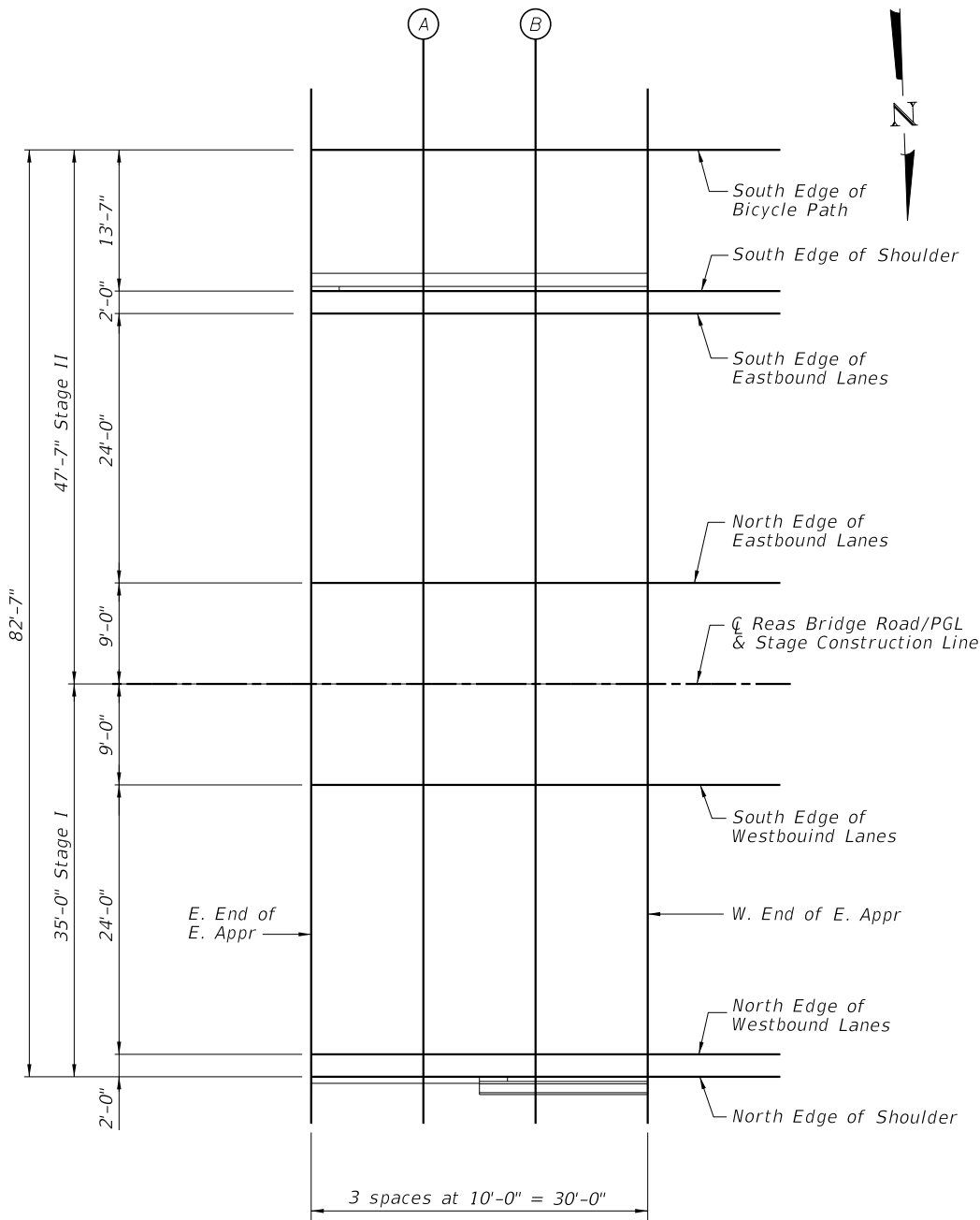
| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | -47.58 | 628.90                       |
| A                  | 32+40.33 | -47.58 | 628.85                       |
| B                  | 32+50.33 | -47.58 | 628.80                       |
| W. End of E. Appr. | 32+60.33 | -47.58 | 628.75                       |

SOUTH EDGE OF SHOULDER

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | -35.00 | 629.10                       |
| A                  | 32+40.33 | -35.00 | 629.05                       |
| B                  | 32+50.33 | -35.00 | 629.00                       |
| W. End of E. Appr. | 32+60.33 | -35.00 | 628.95                       |

SOUTH EDGE OF EASTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | -33.00 | 629.14                       |
| A                  | 32+40.33 | -33.00 | 629.09                       |
| B                  | 32+50.33 | -33.00 | 629.04                       |
| W. End of E. Appr. | 32+60.33 | -33.00 | 628.99                       |



PLAN

NORTH EDGE OF EASTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | -9.00  | 629.64                       |
| A                  | 32+40.33 | -9.00  | 629.59                       |
| B                  | 32+50.33 | -9.00  | 629.54                       |
| W. End of E. Appr. | 32+60.33 | -9.00  | 629.49                       |

CL REAS BRIDGE ROAD/PGL & STAGE CONSTRUCTION LINE

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | 0.00   | 629.83                       |
| A                  | 32+40.33 | 0.00   | 629.78                       |
| B                  | 32+50.33 | 0.00   | 629.73                       |
| W. End of E. Appr. | 32+60.33 | 0.00   | 629.68                       |

SOUTH EDGE OF WESTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | 9.00   | 629.64                       |
| A                  | 32+40.33 | 9.00   | 629.59                       |
| B                  | 32+50.33 | 9.00   | 629.54                       |
| W. End of E. Appr. | 32+60.33 | 9.00   | 629.49                       |

NORTH EDGE OF WESTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | 33.00  | 629.14                       |
| A                  | 32+40.33 | 33.00  | 629.09                       |
| B                  | 32+50.33 | 33.00  | 629.04                       |
| W. End of E. Appr. | 32+60.33 | 33.00  | 628.99                       |

NORTH EDGE OF SHOULDER

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of E. Appr. | 32+30.33 | 35.00  | 629.10                       |
| A                  | 32+40.33 | 35.00  | 629.05                       |
| B                  | 32+50.33 | 35.00  | 629.00                       |
| W. End of E. Appr. | 32+60.33 | 35.00  | 628.95                       |

FILE NAME = i:\municipalities\macon\macon\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\EastBridge\veapprel.dgn

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| USER NAME = jbuening        | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:00:53 AM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 16.0000' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022       | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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184-001397

**TOP OF EAST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 10 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 74        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

SOUTH EDGE OF BICYCLE PATH

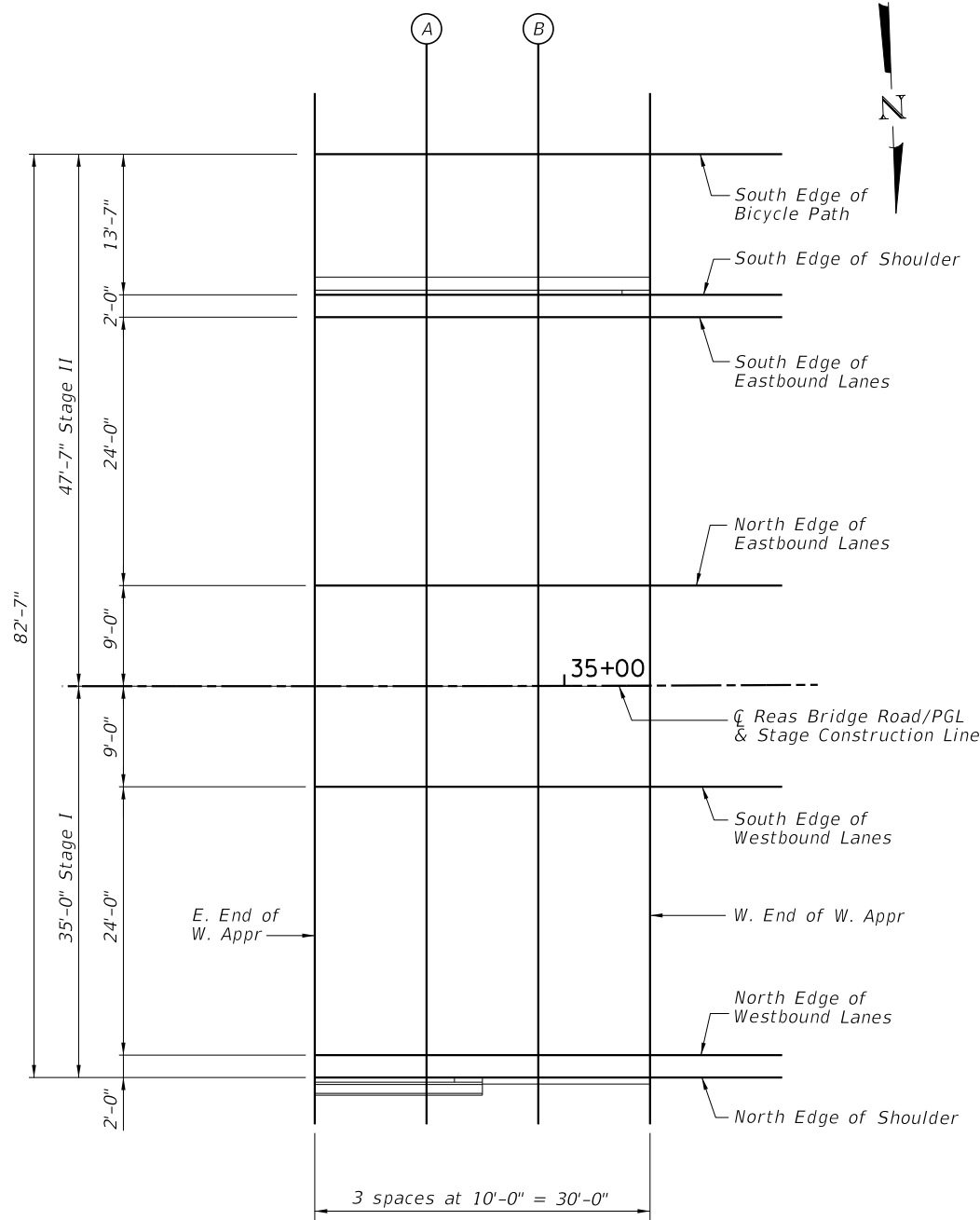
| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | -47.58 | 627.67                       |
| A                  | 34+87.71 | -47.58 | 627.62                       |
| B                  | 34+97.78 | -47.58 | 627.57                       |
| W. End of W. Appr. | 35+07.85 | -47.58 | 627.52                       |

SOUTH EDGE OF SHOULDER

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | -35.00 | 627.86                       |
| A                  | 34+87.70 | -35.00 | 627.81                       |
| B                  | 34+97.75 | -35.00 | 627.76                       |
| W. End of W. Appr. | 35+07.80 | -35.00 | 627.71                       |

SOUTH EDGE OF EASTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | -33.00 | 627.90                       |
| A                  | 34+87.70 | -33.00 | 627.85                       |
| B                  | 34+97.74 | -33.00 | 627.80                       |
| W. End of W. Appr. | 35+07.79 | -33.00 | 627.75                       |



PLAN

NORTH EDGE OF EASTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | -9.00  | 628.40                       |
| A                  | 34+87.68 | -9.00  | 628.35                       |
| B                  | 34+97.69 | -9.00  | 628.30                       |
| W. End of W. Appr. | 35+07.70 | -9.00  | 628.25                       |

REAS BRIDGE ROAD/PGL & STAGE CONSTRUCTION LINE

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | 0.00   | 628.59                       |
| A                  | 34+87.67 | 0.00   | 628.54                       |
| B                  | 34+97.67 | 0.00   | 628.49                       |
| W. End of W. Appr. | 35+07.67 | 0.00   | 628.44                       |

SOUTH EDGE OF WESTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | 9.00   | 628.40                       |
| A                  | 34+87.66 | 9.00   | 628.35                       |
| B                  | 34+97.65 | 9.00   | 628.30                       |
| W. End of W. Appr. | 35+07.63 | 9.00   | 628.25                       |

NORTH EDGE OF WESTBOUND LANES

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | 33.00  | 627.90                       |
| A                  | 34+87.63 | 33.00  | 627.85                       |
| B                  | 34+97.59 | 33.00  | 627.80                       |
| W. End of W. Appr. | 35+07.54 | 33.00  | 627.76                       |

NORTH EDGE OF SHOULDER

| Location           | Station  | Offset | Theoretical Grade Elevations |
|--------------------|----------|--------|------------------------------|
| E. End of W. Appr. | 34+77.67 | 35.00  | 627.86                       |
| A                  | 34+87.63 | 35.00  | 627.81                       |
| B                  | 34+97.58 | 35.00  | 627.76                       |
| W. End of W. Appr. | 35+07.54 | 35.00  | 627.71                       |

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| PLOT TIME = 12:12:06 AM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 16.0000' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022       | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
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DECATUR (217) 422-8544  
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ROCKFORD (815) 489-0050  
184-001397

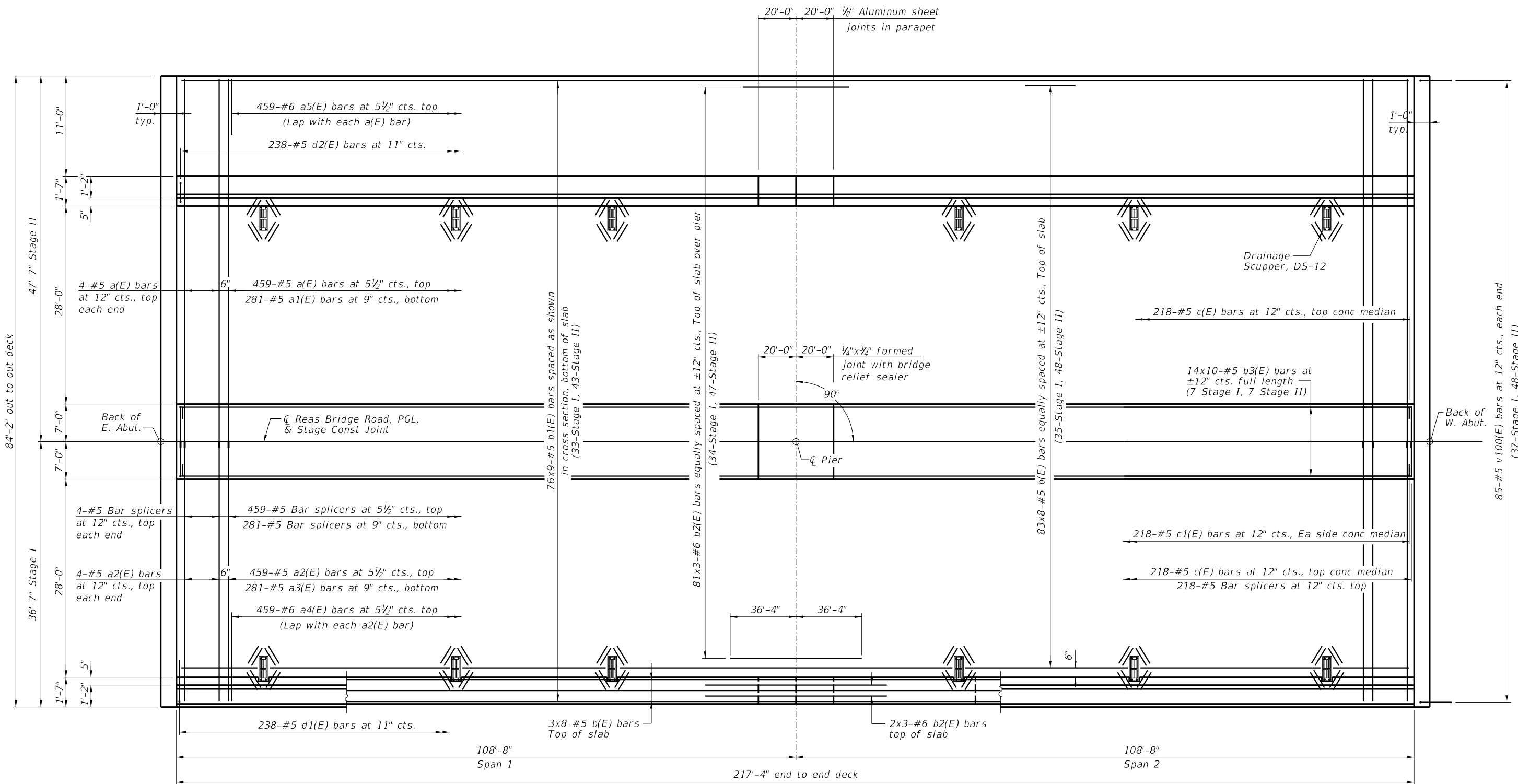
**TOP OF WEST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 11 OF 33 SHEETS

|                    |                |        |              |           |
|--------------------|----------------|--------|--------------|-----------|
| FAU RTE.           | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355               | 12-00251-00-BR | MACON  | 196          | 75        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

FILE NAME = i:\Municipalities\Macon County\6487 Reas Bridge Replacement\CADD\Structural\EastBridgeVdeckplan.dgn



PLAN

**MIN BAR LAP**  
 #5 bar = 3'-6"  
 #6 bar = 4'-10"

Notes:  
 See Sheets 13 thru 15 of 33 for superstructure details and Bill of Material.  
 Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
 See Sheet 15 of 33 for parapet reinforcement.  
 See Sheet 1 of 33 for scupper locations.  
 See Sheet 32 of 33 for bar splicer details.  
 See Sheet 20 of 33 for railing details.  
 See Sheet 16 of 33 for diaphragm details.

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbenning      | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:58:59 PM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022     | DATE         | REVISED - |

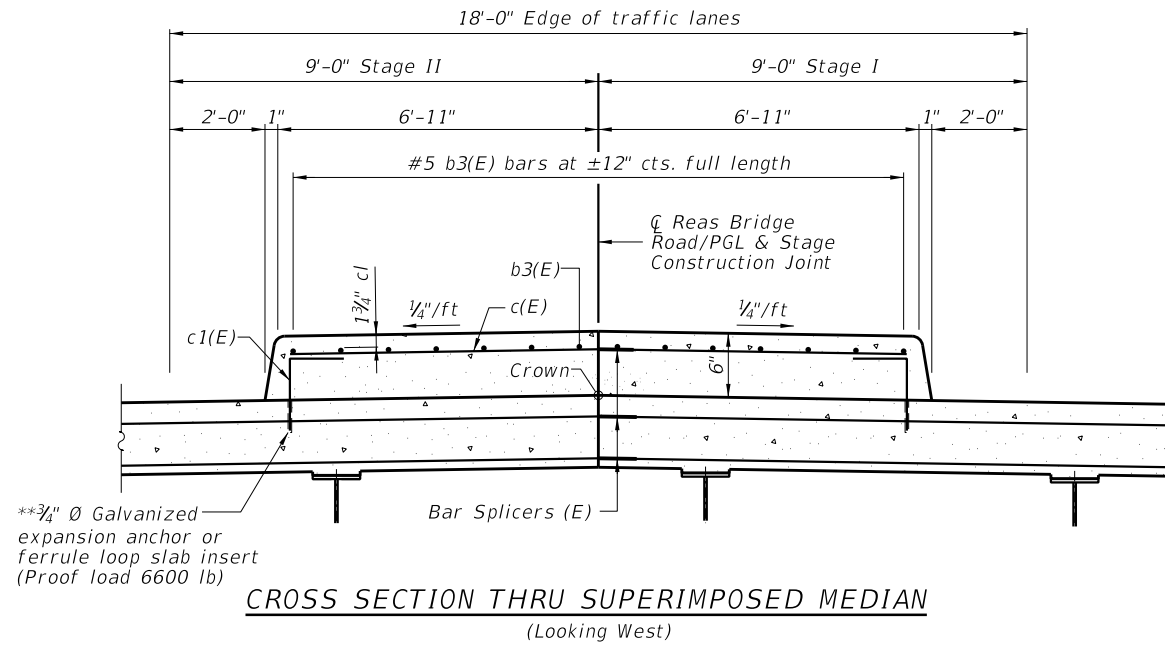
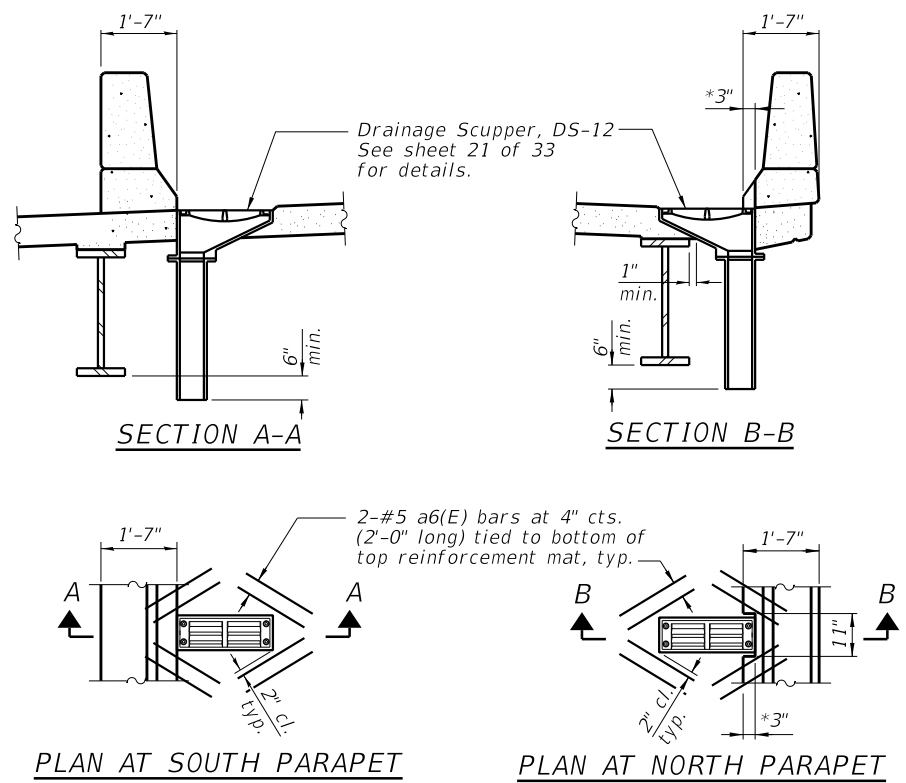
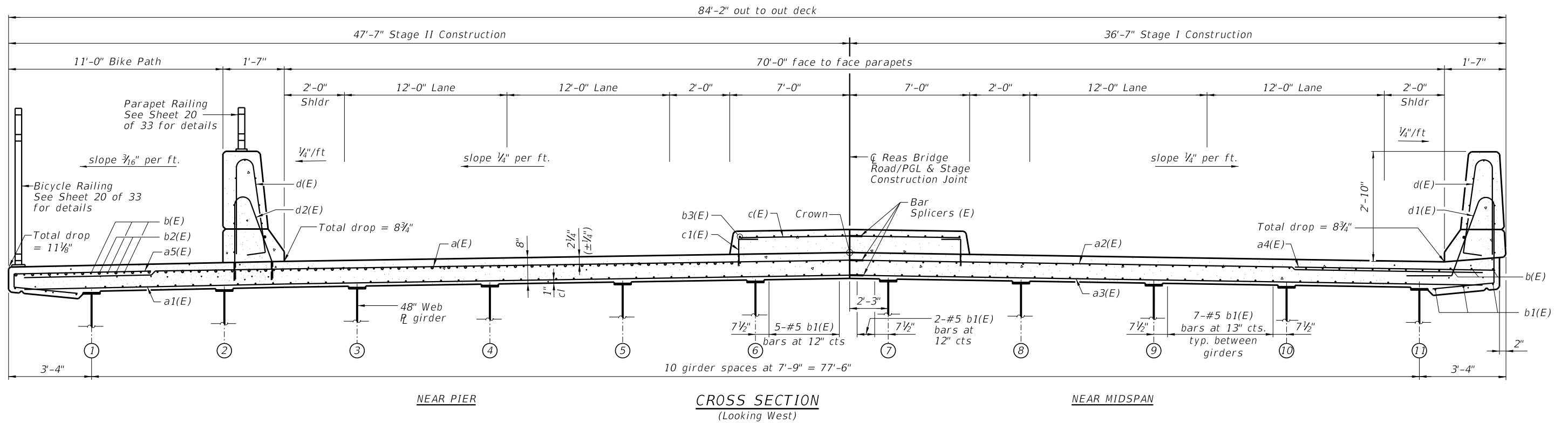
**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

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 ROCKFORD (815) 489-0050  
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**SUPERSTRUCTURE**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 12 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 76        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |





Note:  
 Cut longitudinal reinforcement to clear drainage scuppers.  
 \*Notch Parapet 11"x3" to allow placement of scuppers and future removal of grate. 3" dimension may be reduced if scupper can be moved closer to fascia girder.

FILE NAME = i:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\EastBridge\deckplan.dgn

|                           |              |           |
|---------------------------|--------------|-----------|
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| PLOT DATE = 1/24/2022     | DATE         | REVISED - |

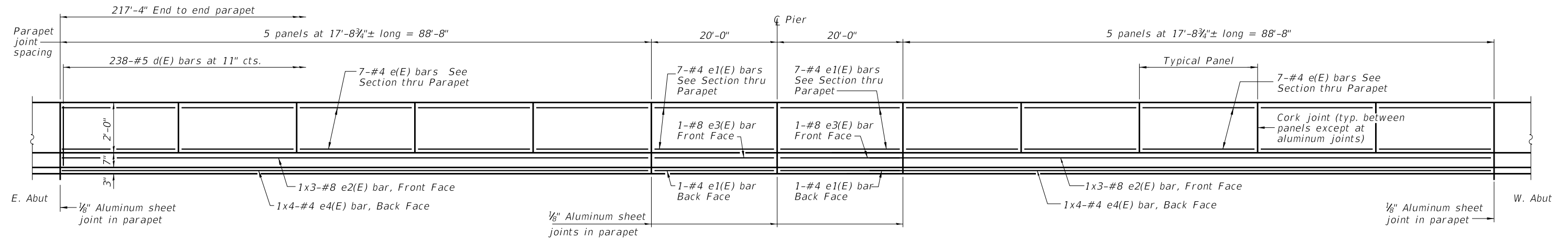
**CHASTAIN & ASSOCIATES LLC**  
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 184-001397

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 13 OF 33 SHEETS

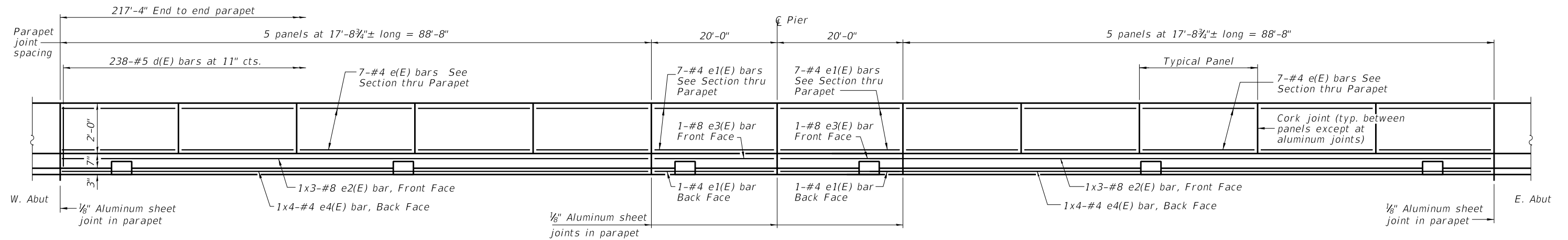
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 77        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

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**INSIDE ELEVATION OF SOUTH PARAPET**

**MINIMUM BAR LAP**  
 (Parapet)  
 #4 bar = 2'-5"  
 #8 bar = 5'-11"



**INSIDE ELEVATION OF NORTH PARAPET**

|                           |                     |           |
|---------------------------|---------------------|-----------|
| USER NAME = jbenning      | DESIGNED <i>JMB</i> | REVISED - |
| PLOT TIME = 12:09:49 AM   | DRAWN <i>RLK</i>    | REVISED - |
| PLOT SCALE = 2.0000' / 1" | CHECKED <i>BCG</i>  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

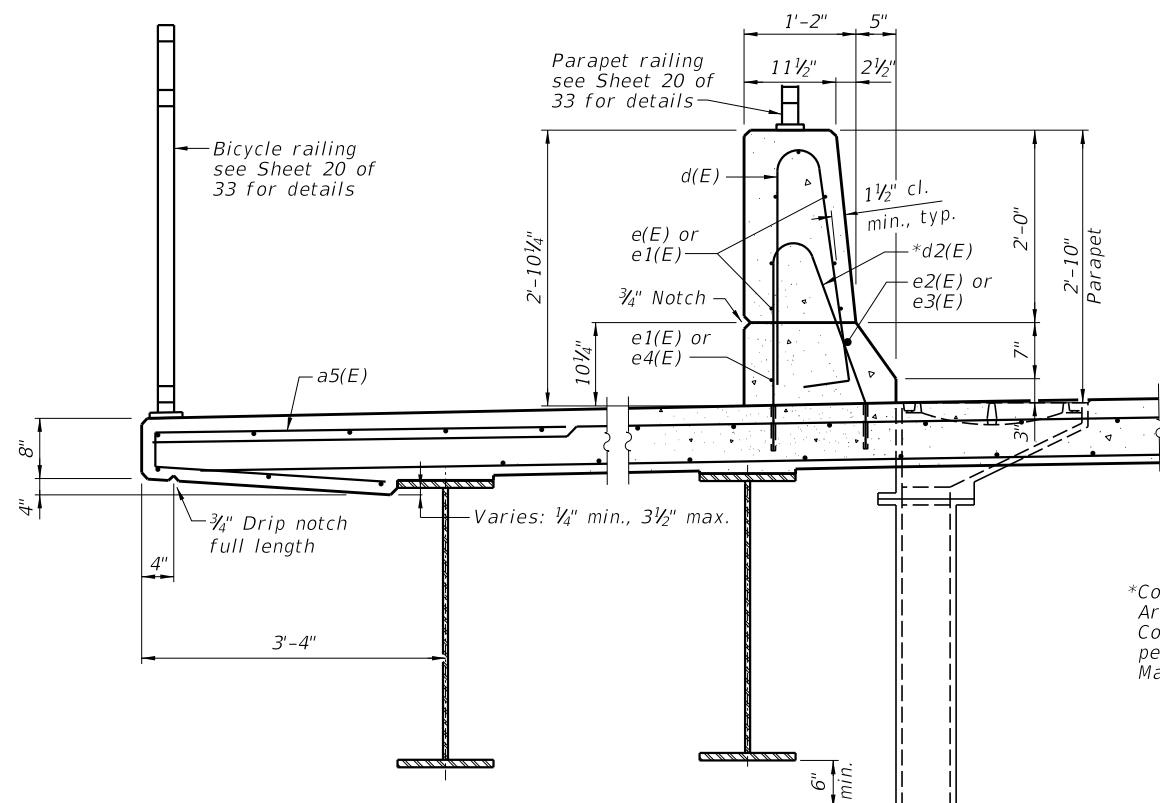
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 058-3409**

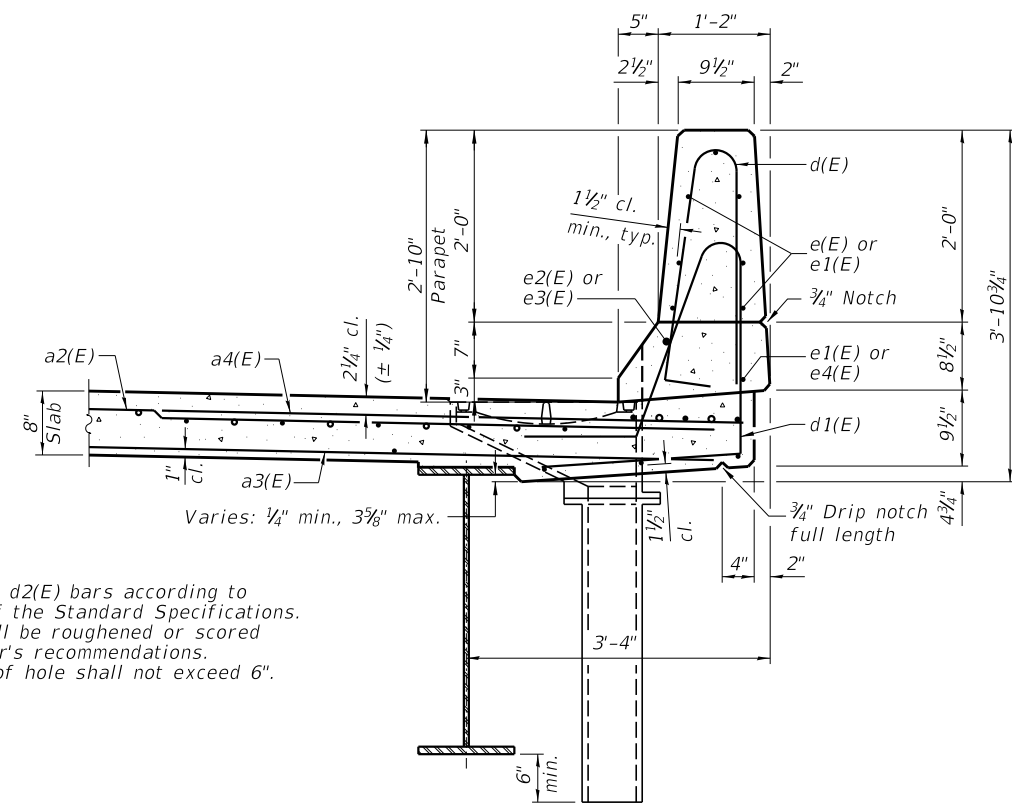
SHEET NO. 14 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
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| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

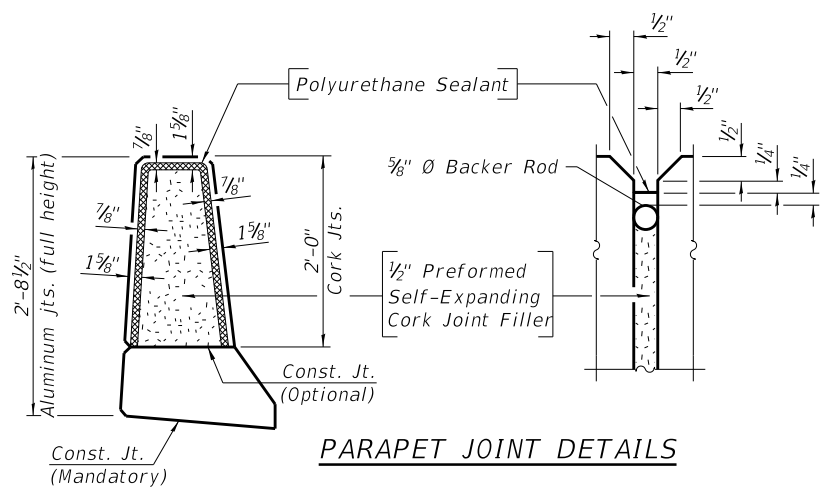


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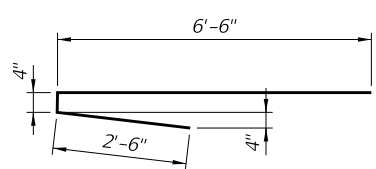


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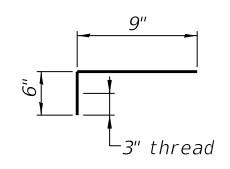
\*Core and set #5 d2(E) bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6\"/>



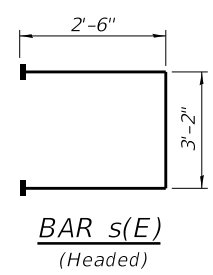
PARAPET JOINT DETAILS



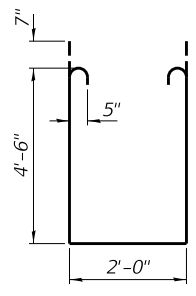
BAR a5(E)



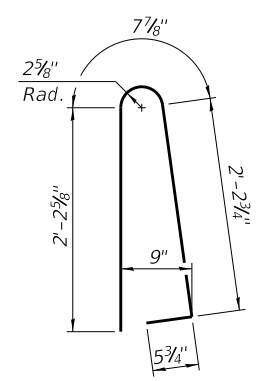
BAR c1(E)



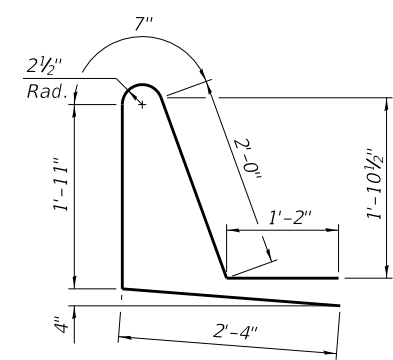
BAR s(E)  
(Headed)



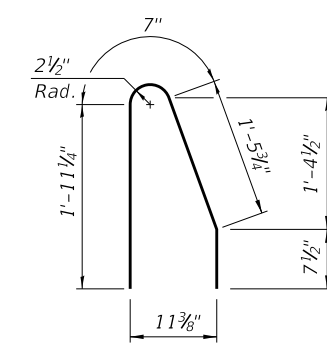
BAR s1(E)



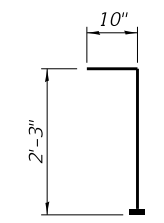
BAR d(E)



BAR d1(E)



BAR d2(E)



BAR v100(E)  
(Headed)

**SUPERSTRUCTURE  
BILL OF MATERIAL**

| Bar No.                          | Size   | Length  | Shape          |
|----------------------------------|--------|---------|----------------|
| a(E)                             | 467 #5 | 47'-4"  | —              |
| a1(E)                            | 281 #5 | 47'-0"  | —              |
| a2(E)                            | 467 #5 | 36'-2"  | —              |
| a3(E)                            | 281 #5 | 35'-10" | —              |
| a4(E)                            | 459 #6 | 6'-6"   | —              |
| a5(E)                            | 459 #6 | 9'-4"   | —              |
| a6(E)                            | 96 #5  | 2'-0"   | —              |
| b(E)                             | 712 #5 | 30'-3"  | —              |
| b1(E)                            | 684 #5 | 27'-3"  | —              |
| b2(E)                            | 249 #6 | 27'-6"  | —              |
| b3(E)                            | 140 #5 | 24'-11" | —              |
| c(E)                             | 436 #5 | 6'-7"   | —              |
| c1(E)                            | 436 #5 | 1'-3"   | —              |
| d(E)                             | 476 #5 | 5'-7"   | —              |
| d1(E)                            | 238 #5 | 8'-0"   | —              |
| d2(E)                            | 238 #5 | 4'-8"   | —              |
| e(E)                             | 140 #4 | 17'-5"  | —              |
| e1(E)                            | 32 #4  | 19'-8"  | —              |
| e2(E)                            | 12 #8  | 33'-5"  | —              |
| e3(E)                            | 4 #8   | 19'-8"  | —              |
| e4(E)                            | 16 #4  | 23'-11" | —              |
| m(E)                             | 20 #6  | 25'-8"  | —              |
| m1(E)                            | 80 #6  | 7'-4"   | —              |
| m2(E)                            | 16 #6  | 3'-0"   | —              |
| m3(E)                            | 88 #5  | 4'-0"   | —              |
| m4(E)                            | 8 #6   | 36'-2"  | —              |
| s(E)                             | 152 #5 | 8'-2"   | —              |
| s1(E)                            | 152 #5 | 12'-2"  | —              |
| v100(E)                          | 170 #5 | 3'-1"   | —              |
| Reinforcement Bars, Epoxy Coated |        |         | Pound 150,700  |
| Concrete Superstructure          |        |         | Cu. Yds. 664.3 |
| Bridge Deck Grooving             |        |         | Sq. Yd. 1256   |
| Protective Coat                  |        |         | Sq. Yd. 2162   |

Bars indicated thus 14x10-#5 etc. indicates 14 lines of bars with 10 lengths per line.

Notes:  
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
 The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.  
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.  
 Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

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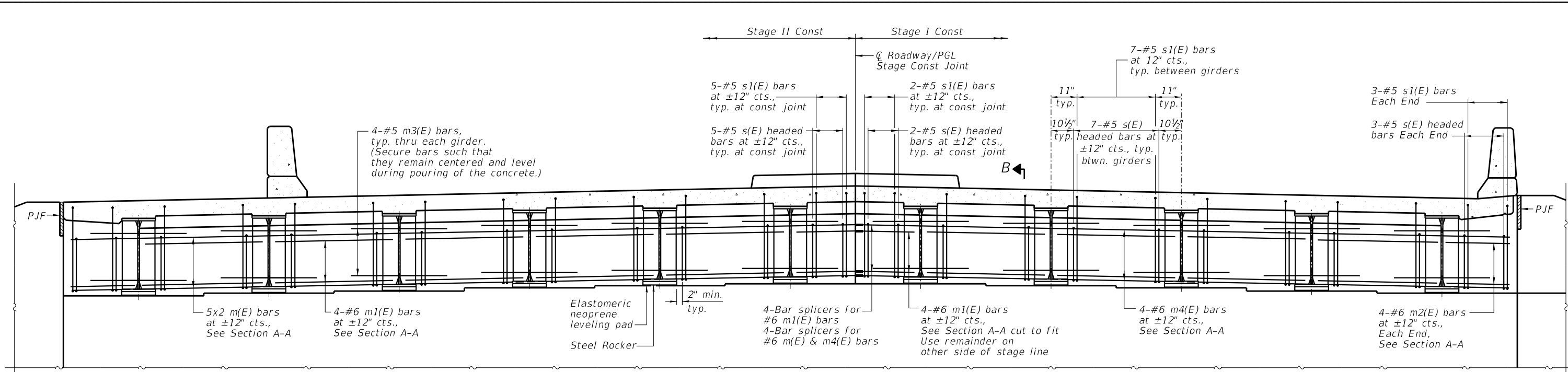
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| PLOT SCALE = 2.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

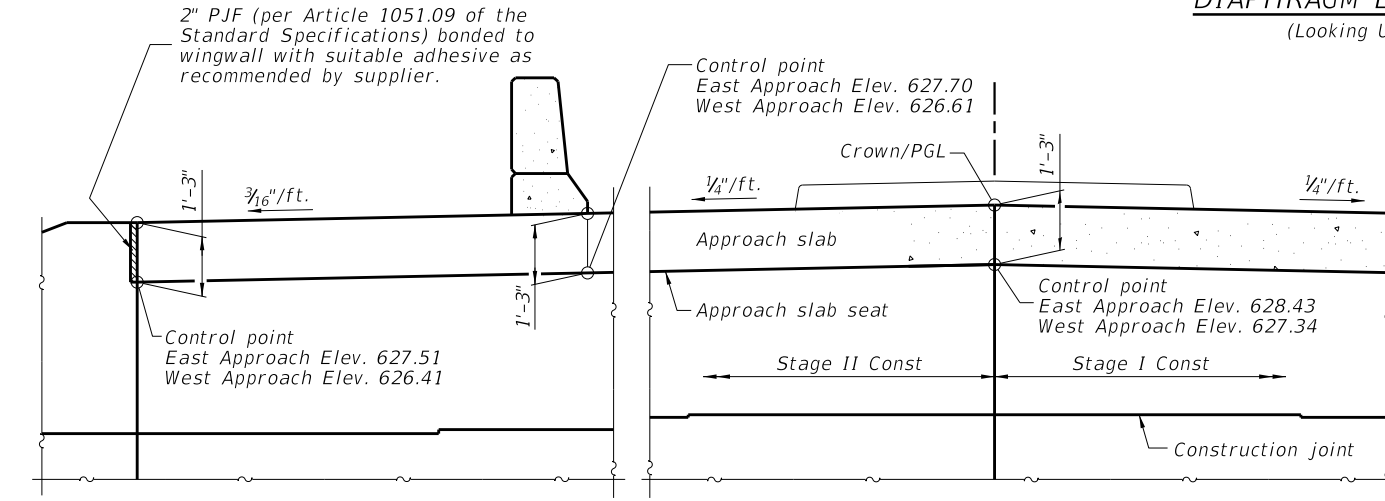
DECATUR (217) 422-8544  
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 184-001397

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 15 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 79        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

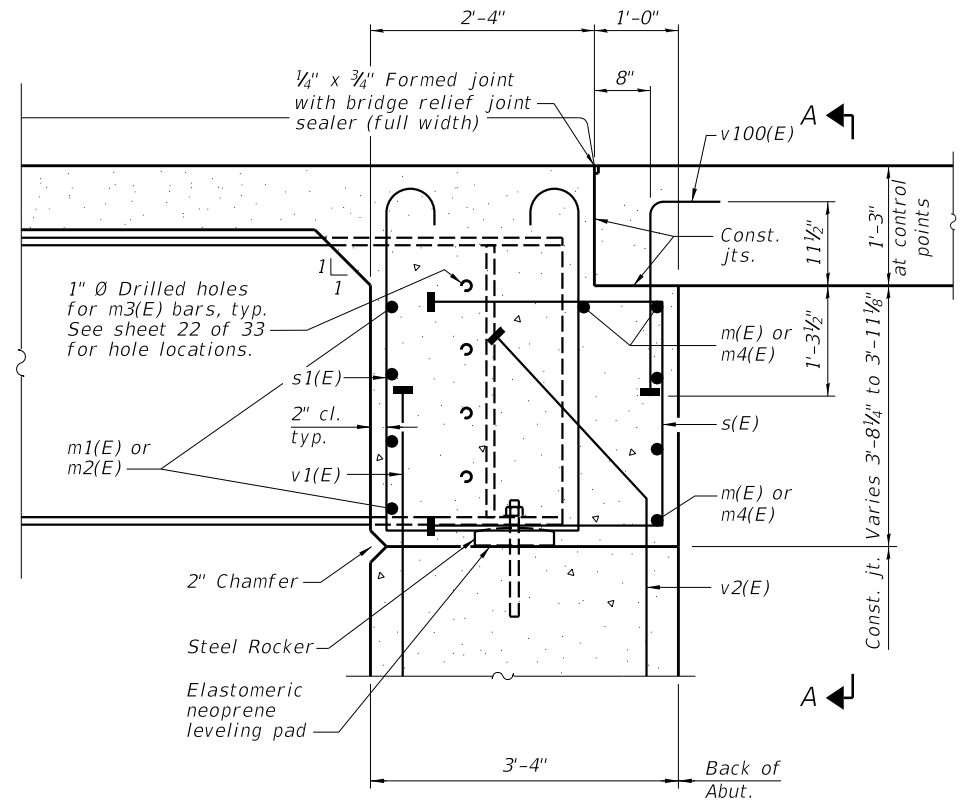


**DIAPHRAGM ELEVATION AT WEST ABUTMENT**  
(Looking Up Station - East abutment similar)

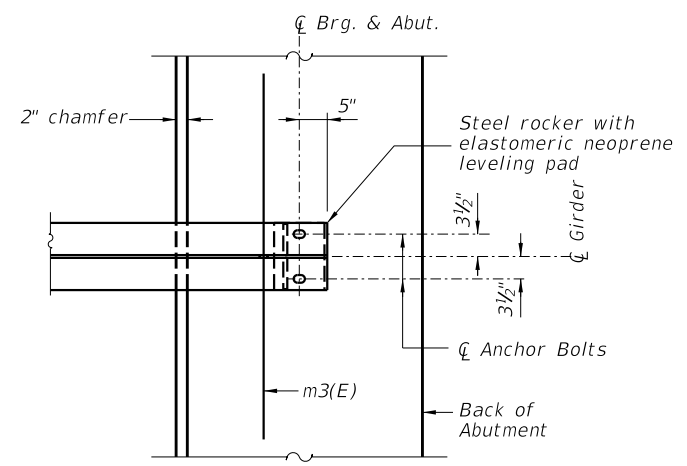


**SECTION A-A**

**MIN BAR LAP**  
#6 bar = 4'-0"



**SECTION B-B**



**PARTIAL PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 15 of 33.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 15 of 33.  
 For details of bars s(E) and s1(E) see sheet 15 of 33.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 For bearing details see sheet 25 of 33.  
 Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

FILE NAME = i:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridgeDiaphragm.dgn

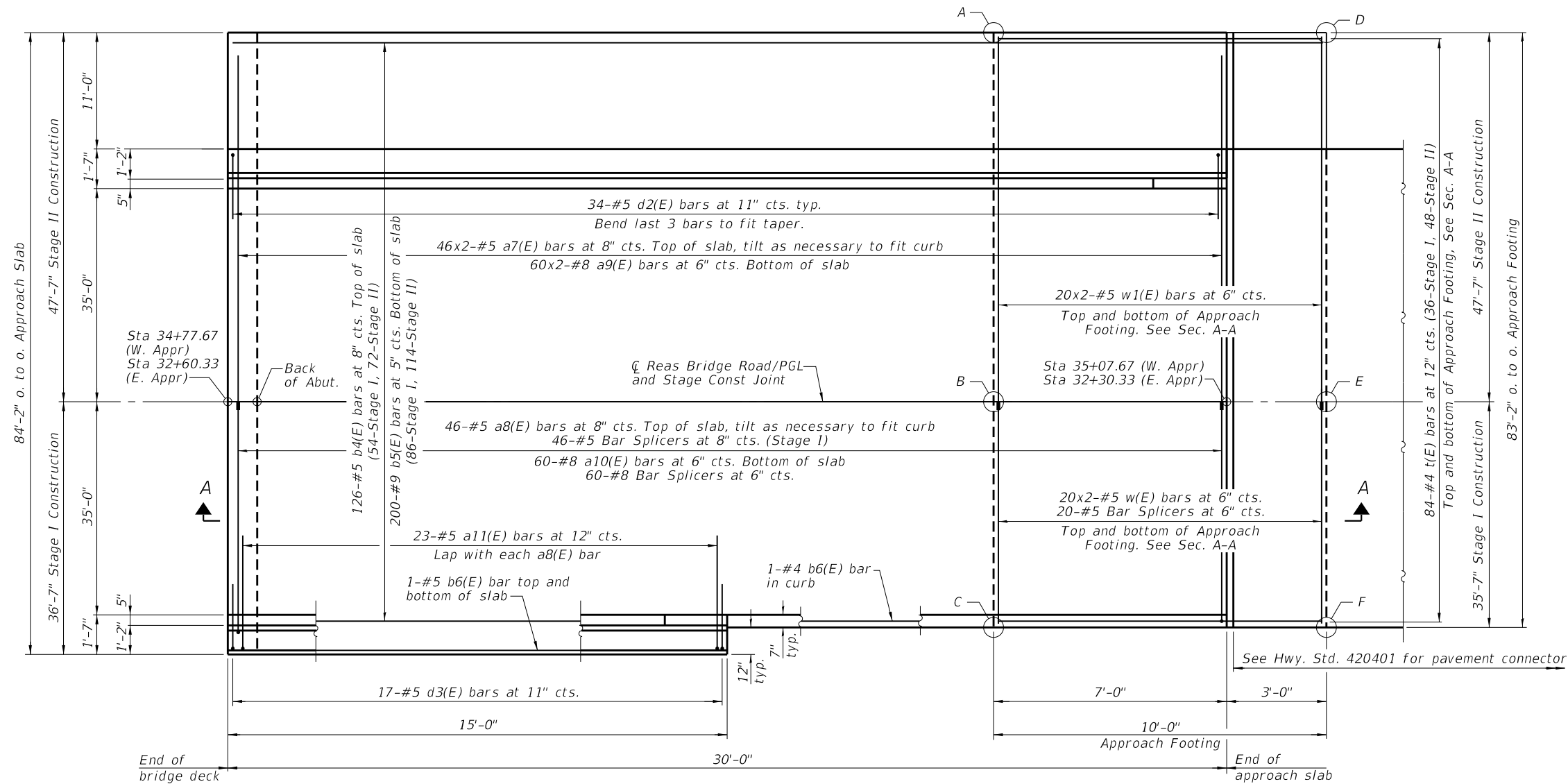
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| PLOT SCALE = 8.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

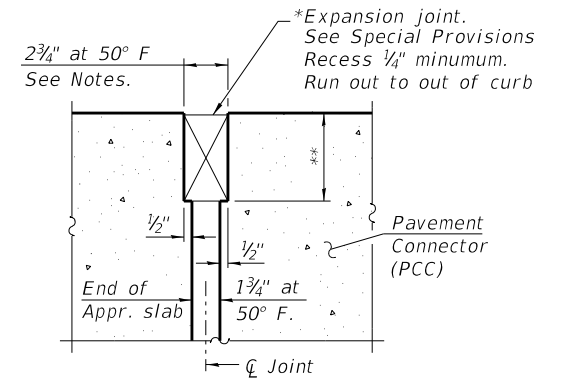
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 16 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 80        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

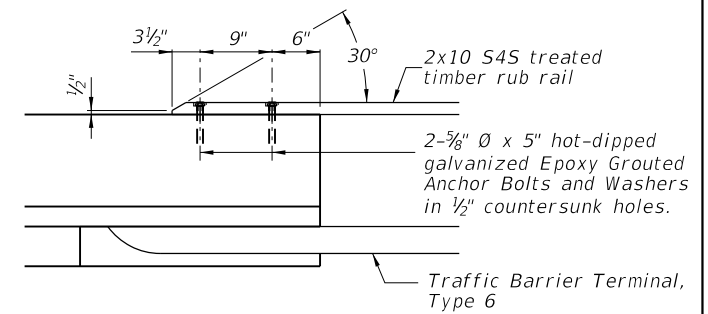


**PLAN**  
(West approach shown, East approach similar)

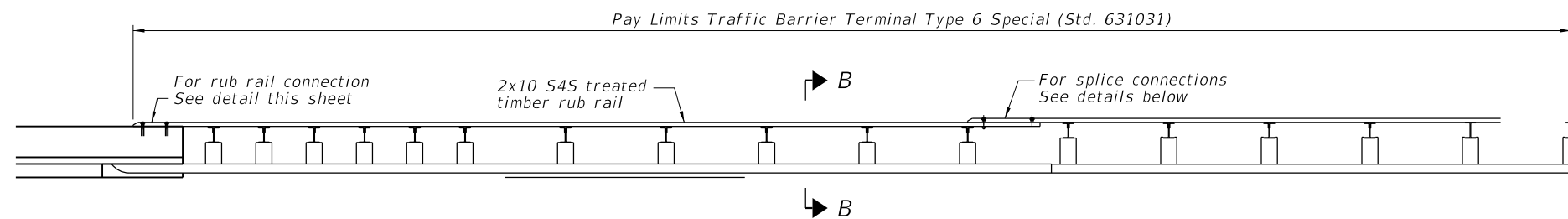


**DETAIL A**

\* Cost included with Concrete Superstructure (Approach Slab).  
\*\* Per manufacturer recommendations



**RUB RAIL CONNECTION TO PARAPET**



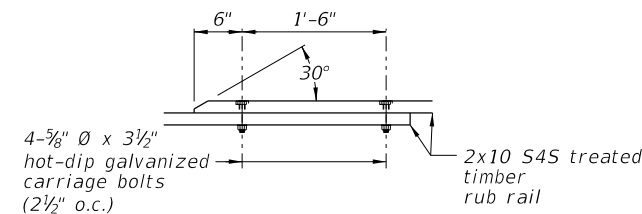
**SHARED-USE PATH RUB RAIL DETAIL**

Note: First two posts of TBT Type 6 conflict with approach slab footing. Form opening for posts accordingly.

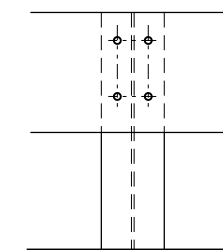
The cost for the rub rail work shall be included in the cost of Traffic Barrier Terminal, Type 6 Special. (See Roadway Plans) Rub rail shall conform to Section 1007.

**RUB RAIL LOCATION**

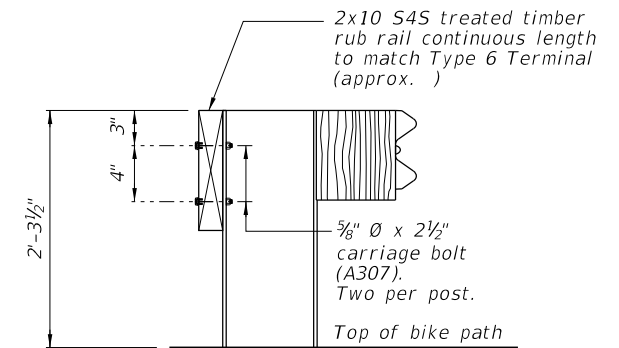
Station to Station  
Lt 35+07 Lt 35+45



**2x10 SPLICE CONNECTION DETAIL**



**ELEVATION**



**SECTION B-B**

(Sheet 1 of 3)

FILE NAME =  
\$FILES\$

|                        |                     |           |
|------------------------|---------------------|-----------|
| USER NAME = \$USER\$   | DESIGNED <i>JMB</i> | REVISED - |
| PLOT TIME = \$TIME\$   | DRAWN <i>RLK</i>    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED <i>BCG</i>  | REVISED - |
| PLOT DATE = \$DATE\$   | DATE                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

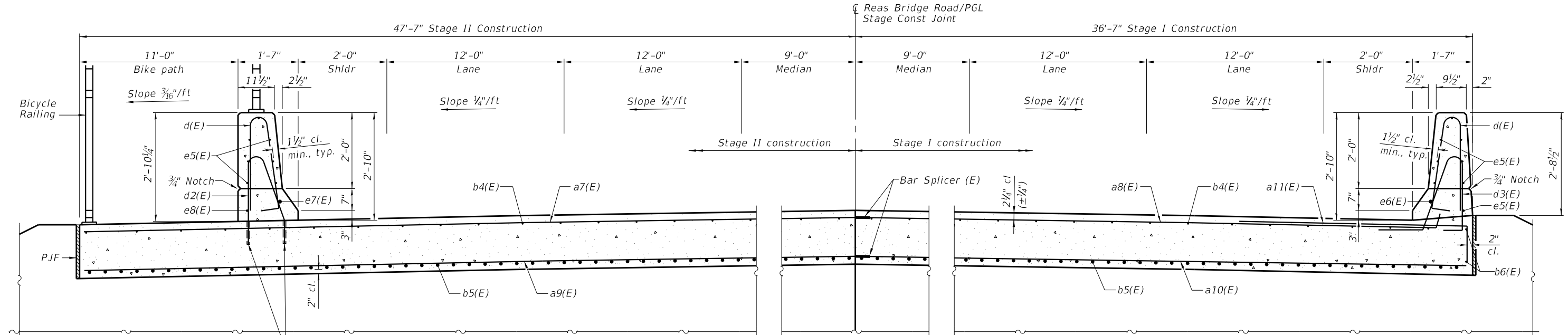
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0050  
ROCKFORD (815) 489-0050  
184-001397

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 17 OF 33 SHEETS

|                    |                |        |              |           |
|--------------------|----------------|--------|--------------|-----------|
| FAU RTE.           | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355               | 12-00251-00-BR | MACON  | 196          | 81        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

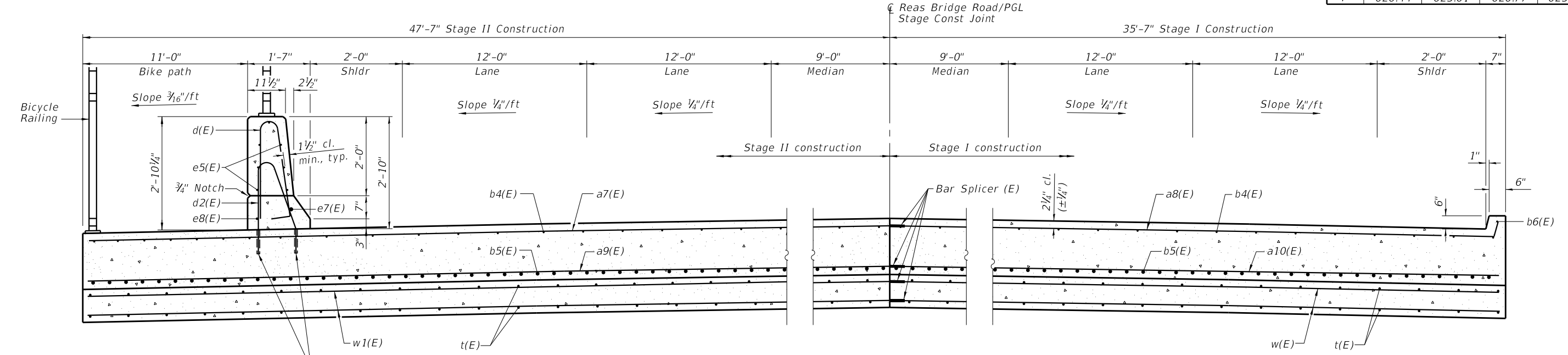


Core and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

APPROACH CROSS SECTION NEAR ABUTMENT  
(Looking West)

TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING

| Point | West Approach |        | East Approach |        |
|-------|---------------|--------|---------------|--------|
|       | Top           | Bottom | Top           | Bottom |
| A     | 626.29        | 625.46 | 626.52        | 625.69 |
| B     | 627.23        | 626.40 | 627.46        | 626.63 |
| C     | 626.49        | 625.66 | 626.72        | 625.89 |
| D     | 626.24        | 625.41 | 626.57        | 625.74 |
| E     | 627.18        | 626.35 | 627.51        | 626.68 |
| F     | 626.44        | 625.61 | 626.77        | 625.94 |



Core and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

APPROACH CROSS SECTION AT APPROACH FOOTING  
(Looking West)

FILE NAME = i:\municipalities\macon\macon county\6487 Reas Bridge Replacement\CADD\Structural\EastBridge\Approach.dgn

(Sheet 2 of 3)

|                           |              |           |
|---------------------------|--------------|-----------|
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| PLOT TIME = 11:54:33 PM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8,0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

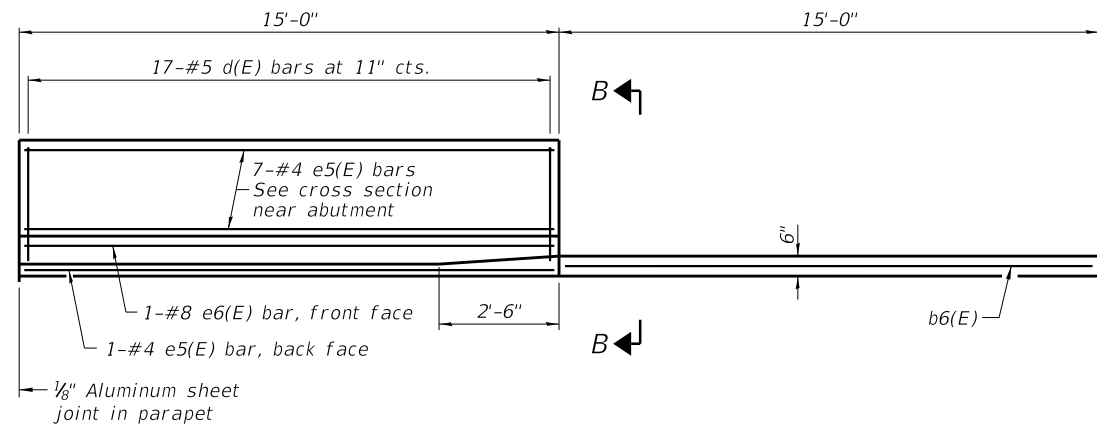
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 058-3409**

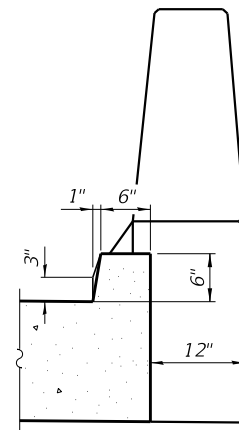
SHEET NO. 18 OF 33 SHEETS

| FAU RTE.           | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196          | 82        |
| CONTRACT NO. 95912 |                |        |              |           |

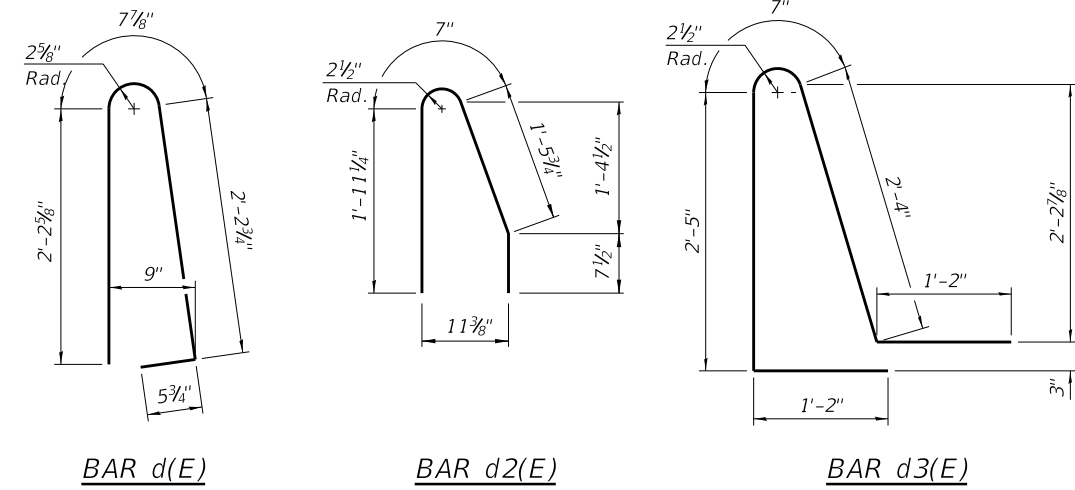
ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF NORTH PARAPET AND CURB



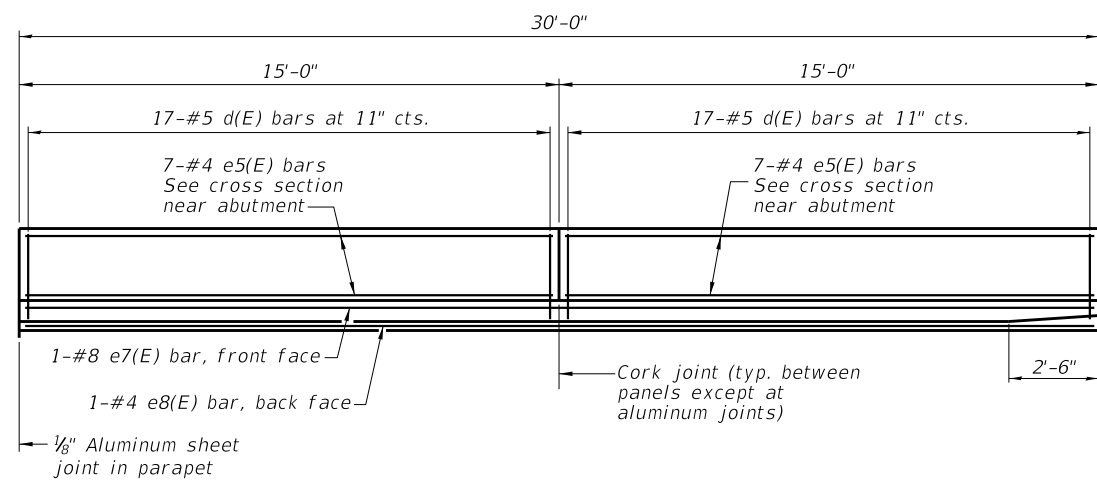
VIEW B-B



BAR d(E)

BAR d2(E)

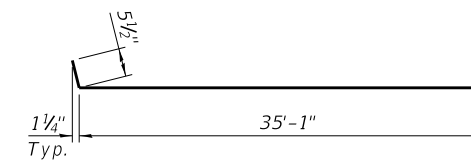
BAR d3(E)



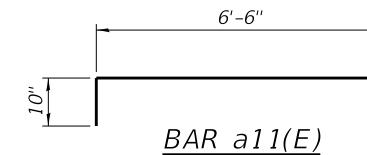
INSIDE ELEVATION OF SOUTH PARAPET

MIN BAR LAP

#5 bar = 3'-6"  
#8 bar = 4'-9"



BAR a8(E)



BAR a11(E)

TWO APPROACHES  
BILL OF MATERIAL

| Bar                                     | No. | Size    | Length | Shape |
|---|-----|---------|--------|-------|
| a7(E)                                   | 184 | #5      | 25'-5" | —     |
| a8(E)                                   | 92  | #5      | 35'-7" | —     |
| a9(E)                                   | 240 | #8      | 26'-1" | —     |
| a10(E)                                  | 120 | #8      | 35'-4" | —     |
| a11(E)                                  | 46  | #5      | 7'-4"  | —     |
| b4(E)                                   | 252 | #5      | 29'-8" | —     |
| b5(E)                                   | 400 | #9      | 29'-8" | —     |
| b6(E)                                   | 4   | #5      | 14'-8" | —     |
| d(E)                                    | 102 | #5      | 5'-7"  | —     |
| d2(E)                                   | 68  | #5      | 4'-8"  | —     |
| d3(E)                                   | 34  | #5      | 7'-8"  | —     |
| e5(E)                                   | 44  | #4      | 14'-8" | —     |
| e6(E)                                   | 2   | #8      | 14'-8" | —     |
| e7(E)                                   | 2   | #8      | 29'-8" | —     |
| e8(E)                                   | 2   | #4      | 29'-8" | —     |
| t(E)                                    | 336 | #4      | 9'-8"  | —     |
| w(E)                                    | 160 | #5      | 19'-5" | —     |
| w1(E)                                   | 160 | #5      | 25'-5" | —     |
| Concrete Superstructure                 |     | Cu. Yd. | 10.7   |       |
| Concrete Superstructure (Approach Slab) |     | Cu. Yd. | 232.8  |       |
| Concrete Structures                     |     | Cu. Yd. | 81.4   |       |
| Reinforcement Bars, Epoxy Coated        |     | Pound   | 96,440 |       |
| Bridge Deck Grooving                    |     | Sq. Yd. | 454    |       |
| Protective Coat                         |     | Sq. Yd. | 578    |       |

Bars indicated thus 46x2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Q<sub>max</sub>) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 33.

(Sheet 3 of 3)

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 058-3409

SHEET NO. 19 OF 33 SHEETS

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbenning      | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:54:51 PM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8,0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022     | DATE         | REVISED - |

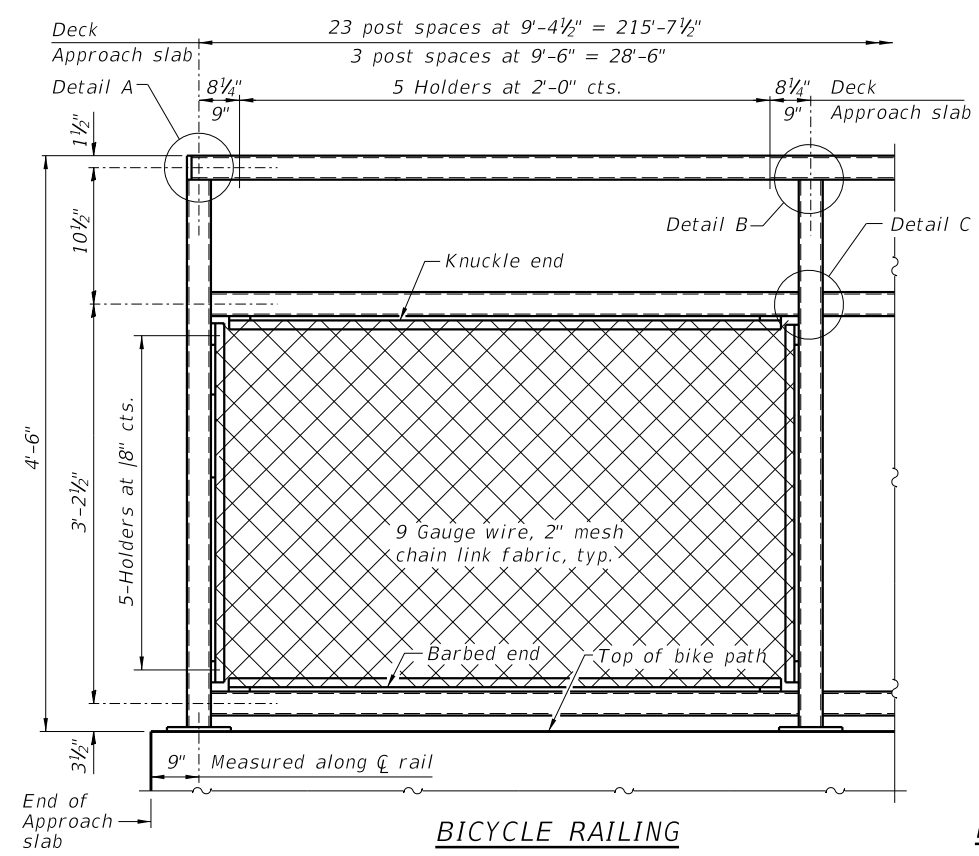
CHASTAIN & ASSOCIATES LLC  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

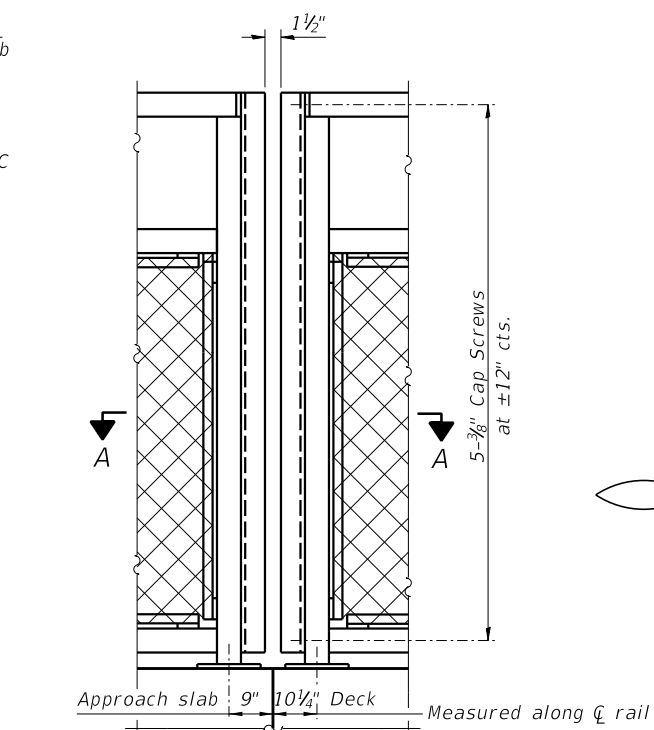
| FAU RTE            | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196          | 83        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

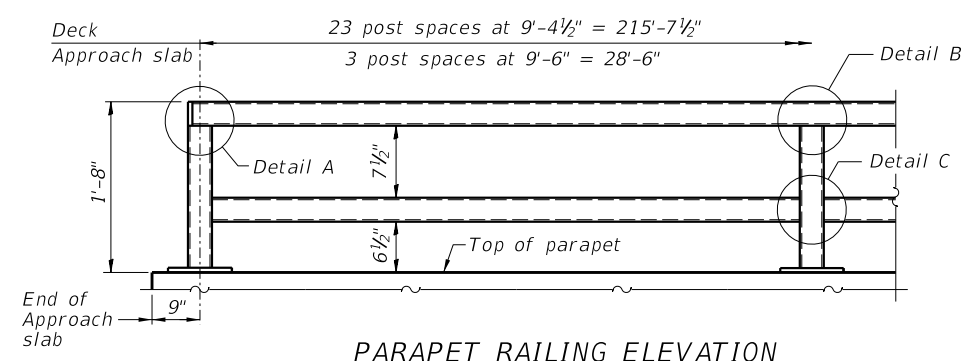
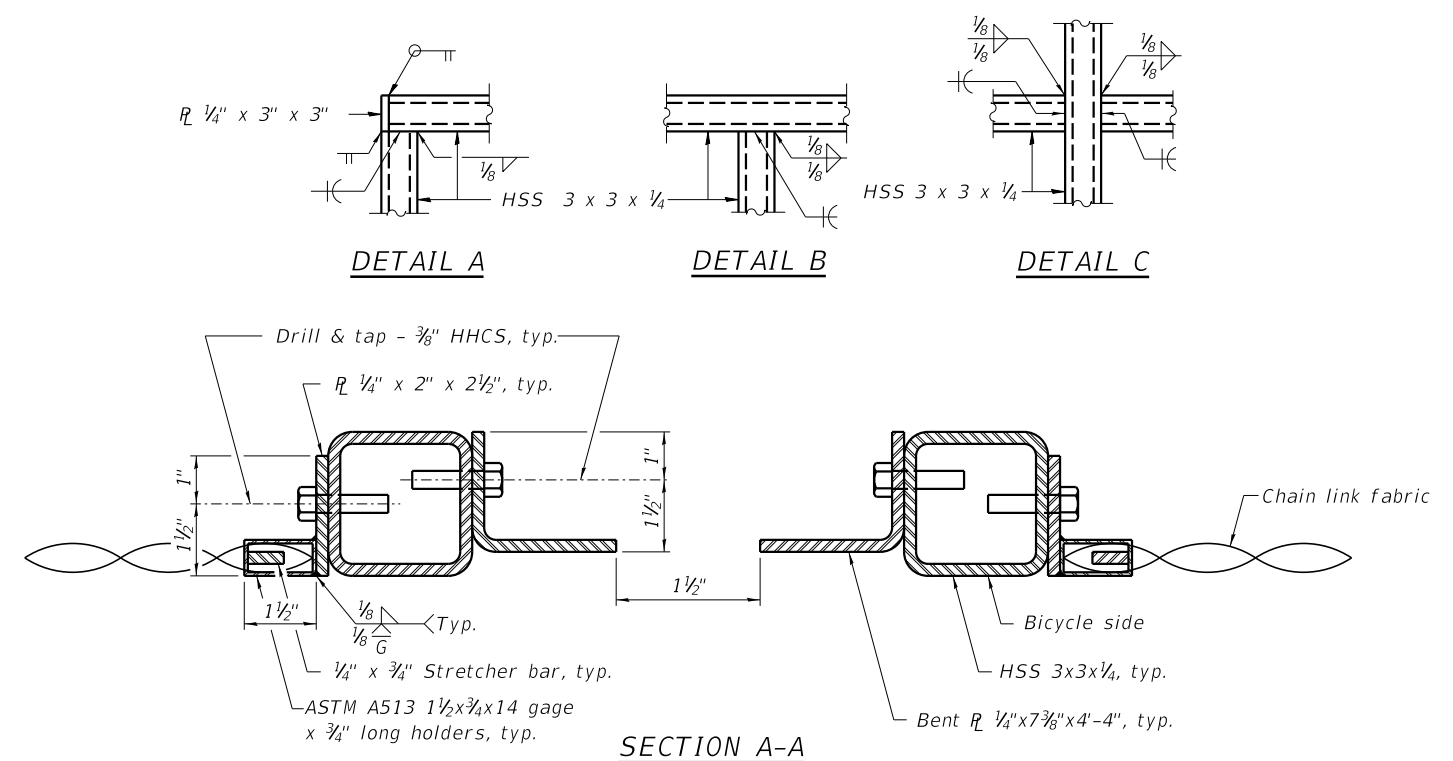
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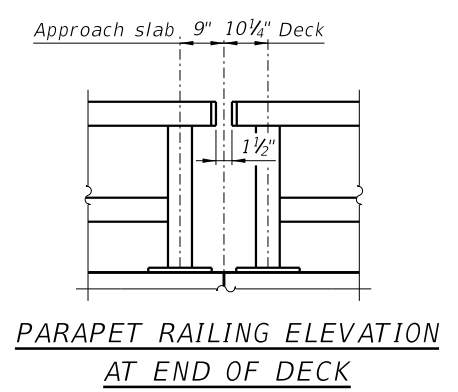
**BICYCLE RAILING**



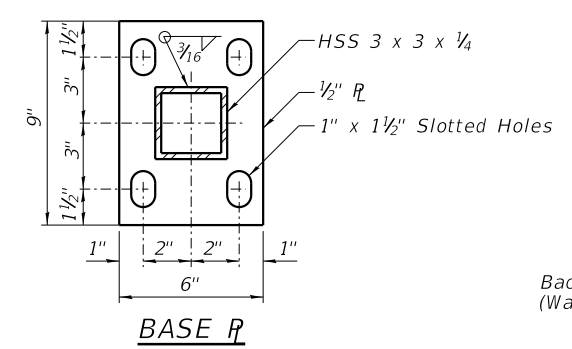
**BICYCLE RAILING AT END OF DECK**



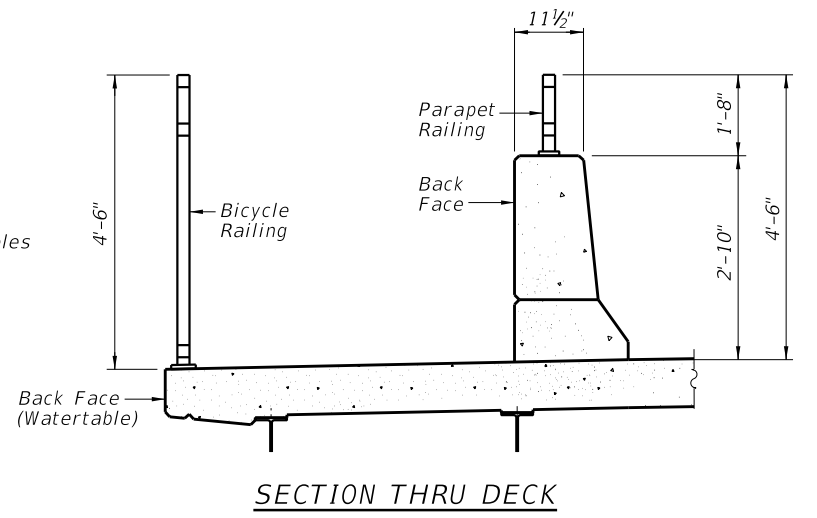
**PARAPET RAILING ELEVATION**



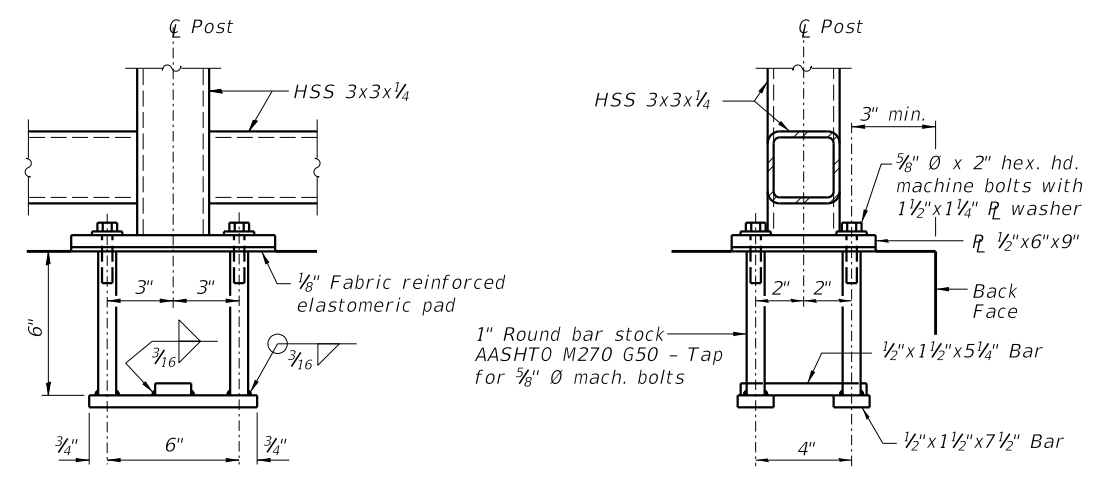
**PARAPET RAILING ELEVATION AT END OF DECK**



**BASE P**

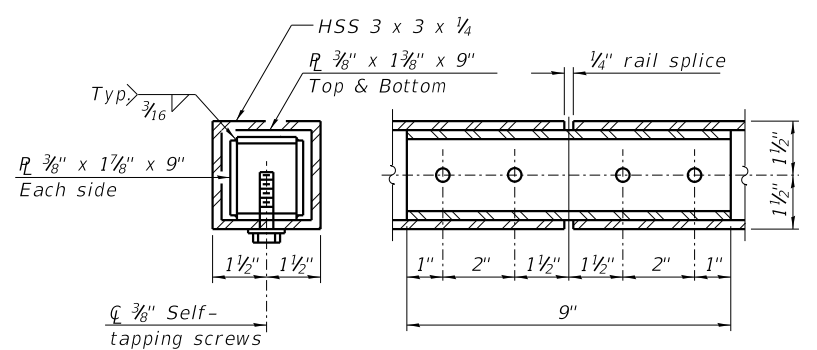


**SECTION THRU DECK**



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the CONTRACTOR has the option of drilling and setting 3/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**RAIL SPLICE**

Notes:  
 All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.  
 CVN testing may be omitted for the bicycle railing.

The chain link fabric shall be black coated vinyl and conform to the requirements of Article 1006.27(a)(1)d of the Standard Specifications.

- All posts, railing, splices, anchor devices and bent plates shall be painted using one of the two following paint systems:
1. Inorganic Zinc-rich/waterborne Acrylic for shop and field applications.
  2. Organic Zinc-rich/Epoxy/Urethane for full shop application.

Finish paint color shall be N1-Black. See Article 506 "Cleaning and Painting New Steel Structures".

**BILL OF MATERIAL**

| Item            | Unit | Quantity |
|-----------------|------|----------|
| Bicycle Railing | Foot | 273      |
| Parapet Railing | Foot | 273      |

R-29 2-17-2017 (10'-0" Maximum Post Spacing)

|                              |              |           |
|------------------------------|--------------|-----------|
| USER NAME = jbenning         | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:56:04 PM      | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2:0.0000 ' = 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022        | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

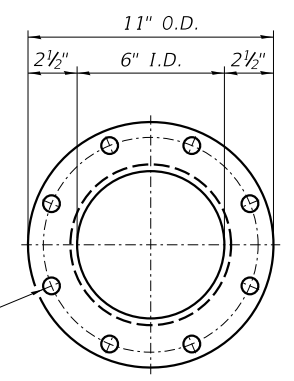
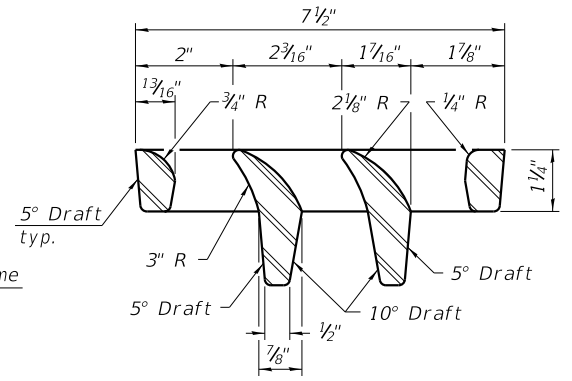
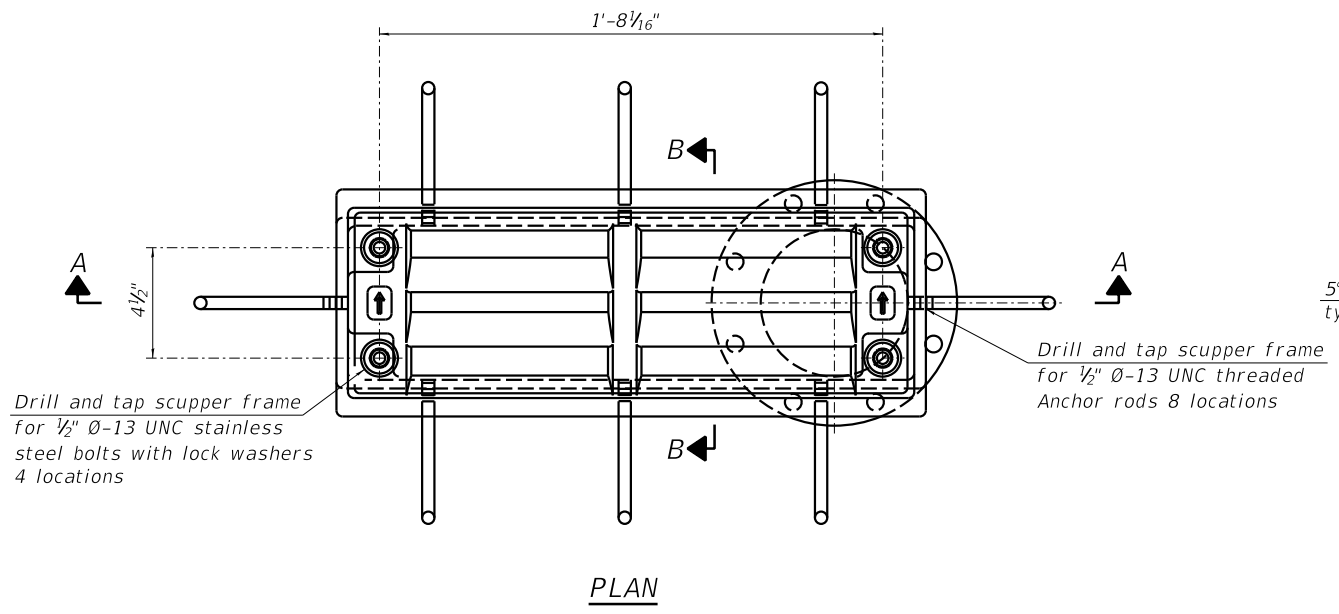
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**BICYCLE RAILING**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 20 OF 33 SHEETS

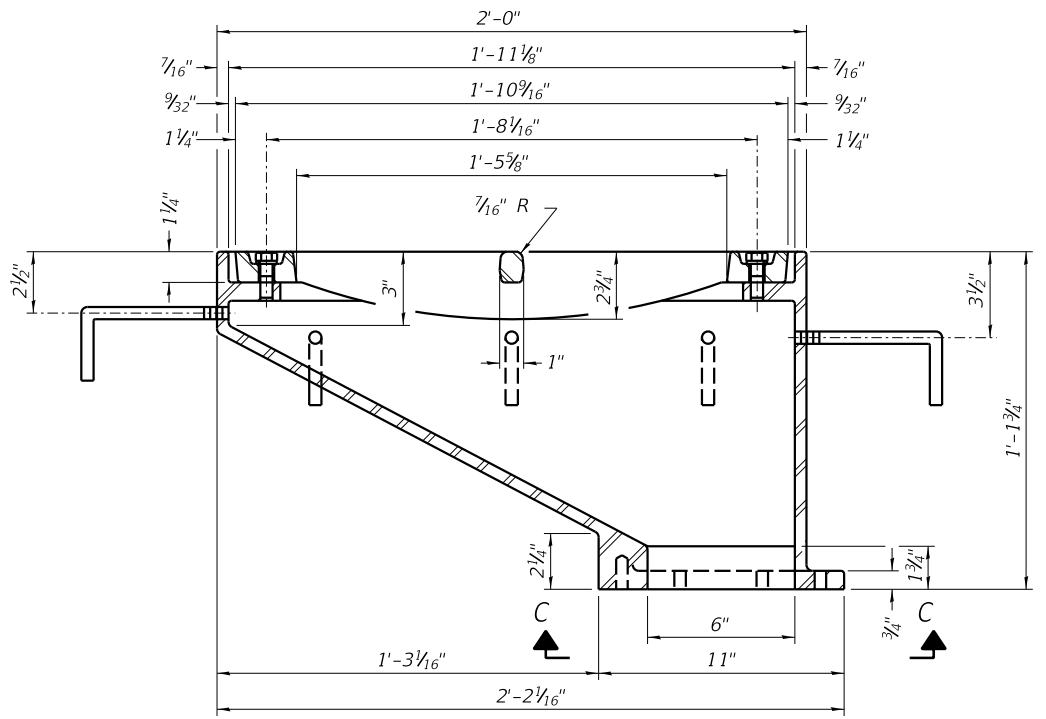
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|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 84        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



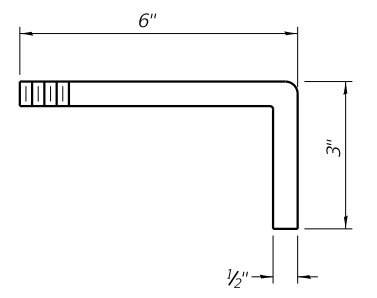
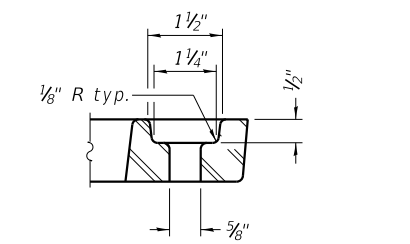
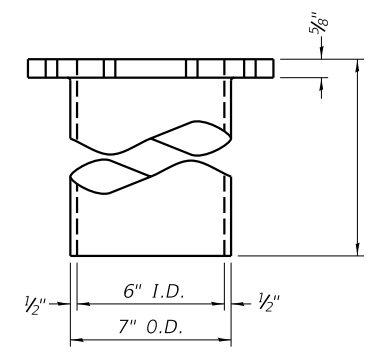
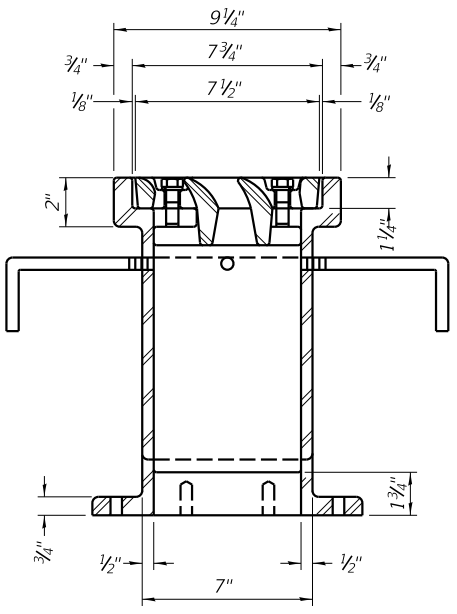
FILE NAME = i:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\scupper.dgn



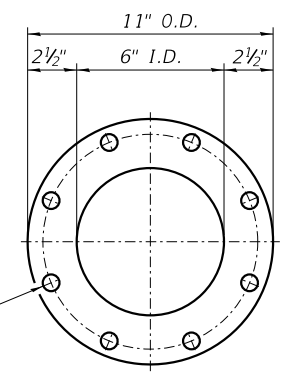
Notes:  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.  
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.  
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.  
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.  
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.  
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet of .  
 The CONTRACTOR shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-12.



See sheet 13 of 33 for scupper location relative to parapet.



Drill and tap 8 holes for 3/4" Ø-13 UNC bolts on 9 1/2" Ø bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)



BILL OF MATERIAL

| ITEM                    | UNIT | QUANTITY |
|-------------------------|------|----------|
| Drainage Scupper, DS-12 | Each | 12       |

DS-12

1-1-2020

|                                 |              |           |
|---------------------------------|--------------|-----------|
| USER NAME = jbenning            | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:07:45 AM         | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2:0.0000 '1' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022           | DATE         | REVISED - |

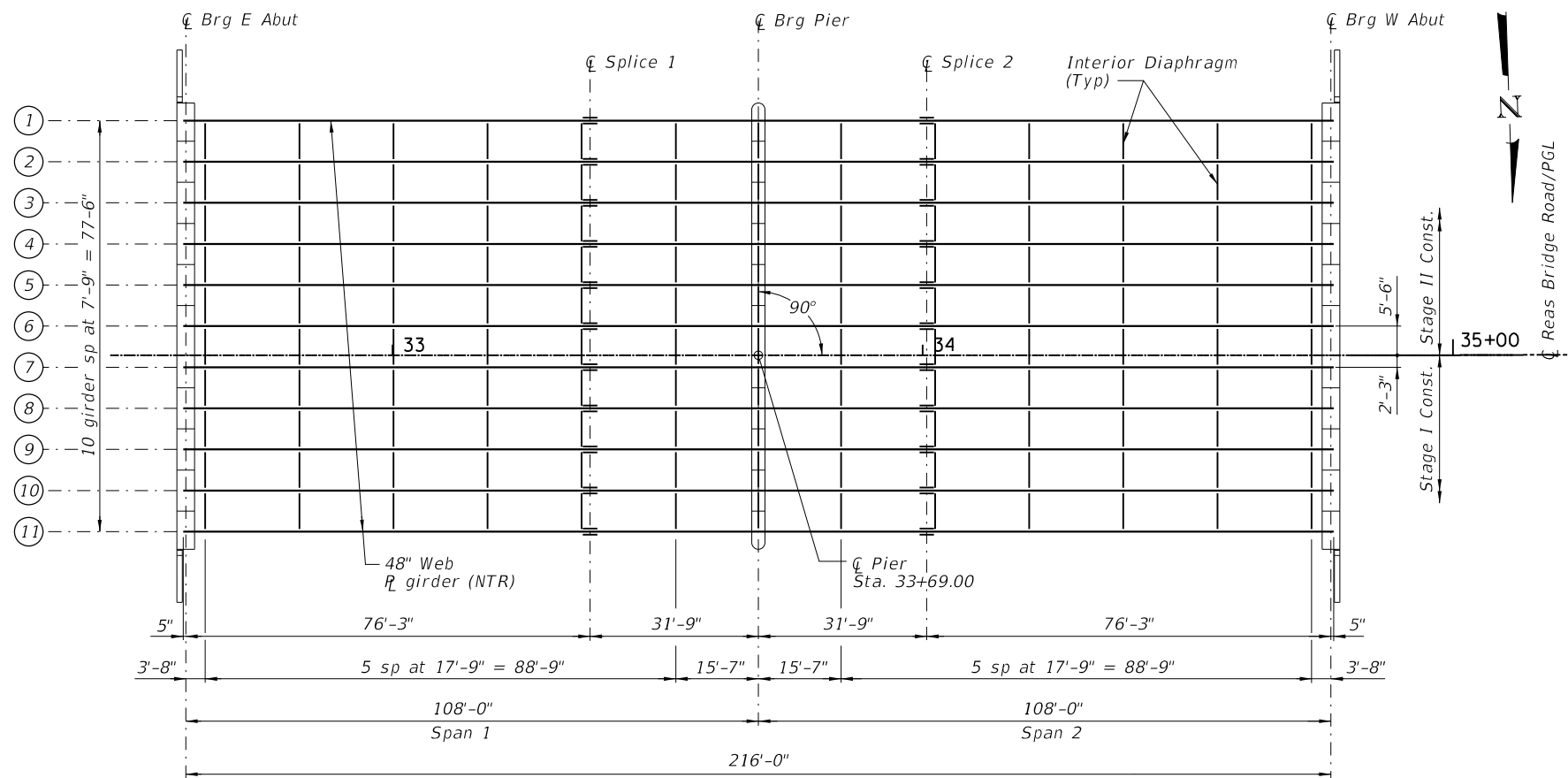
**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

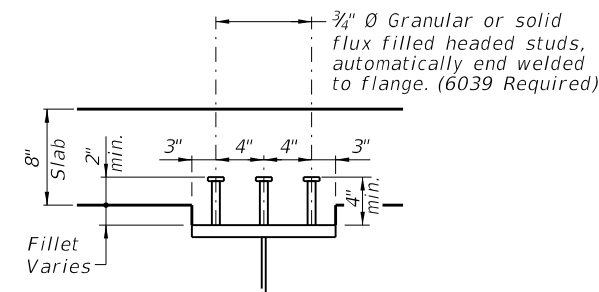
**DRAINAGE SCUPPER, DS-12**  
**STRUCTURE NO. 058-3409**

SHEET NO. 21 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 85        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |



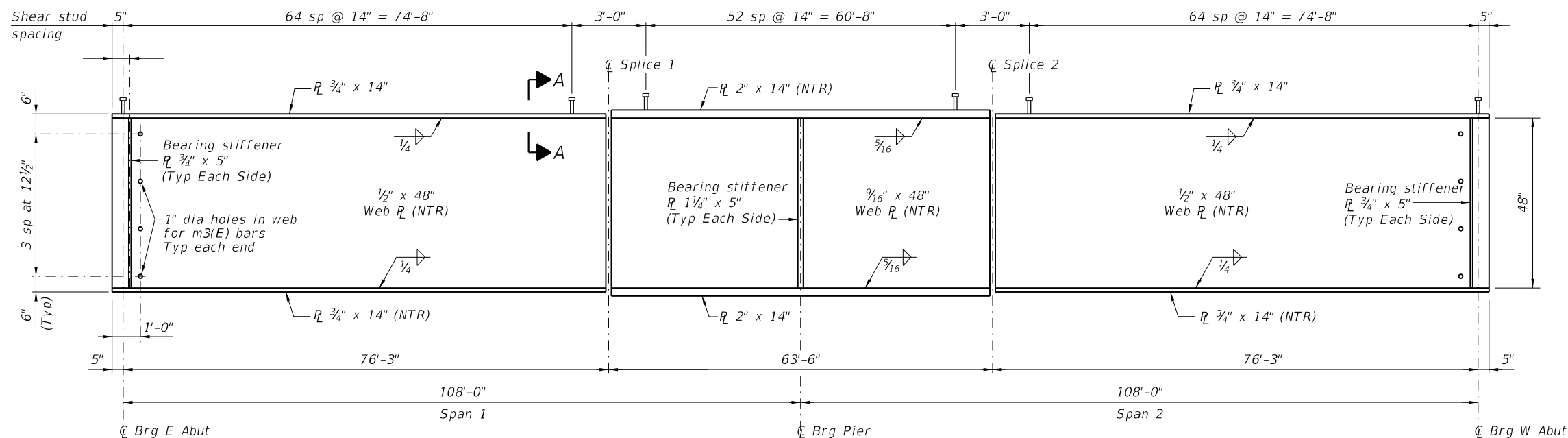
FRAMING PLAN



SECTION A-A

NOTES:

- All girders, splice plates, diaphragms and bearing stiffeners shall be AASHTO M270 Grade 50W.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



GIRDER ELEVATION

FILE NAME = \$FILEL\$

|                        |                     |           |
|------------------------|---------------------|-----------|
| USER NAME = \$USER\$   | DESIGNED <i>JMB</i> | REVISED - |
| PLOT TIME = \$TIME\$   | DRAWN <i>RLK</i>    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED <i>BCG</i>  | REVISED - |
| PLOT DATE = \$DATE\$   | DATE                | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

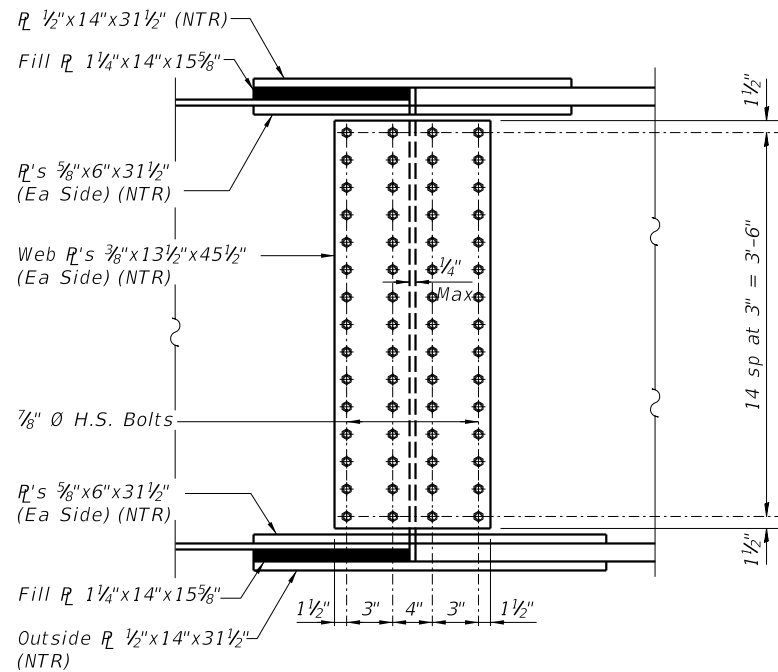
DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**FRAMING PLAN AND DETAILS**  
**STRUCTURE NO. 058-3409**

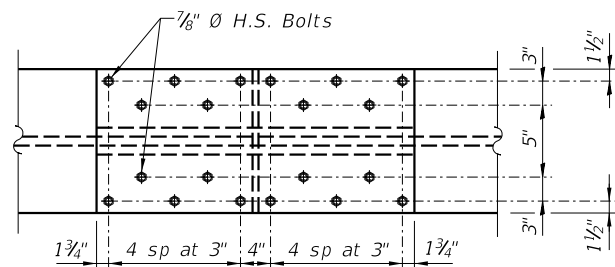
SHEET NO. 22 OF 33 SHEETS

| FAU RTE.           | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196          | 86        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT



WEB SPLICE PLATE

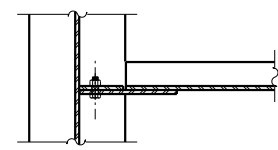


TOP & BOTTOM FLANGE SPLICE PLATE

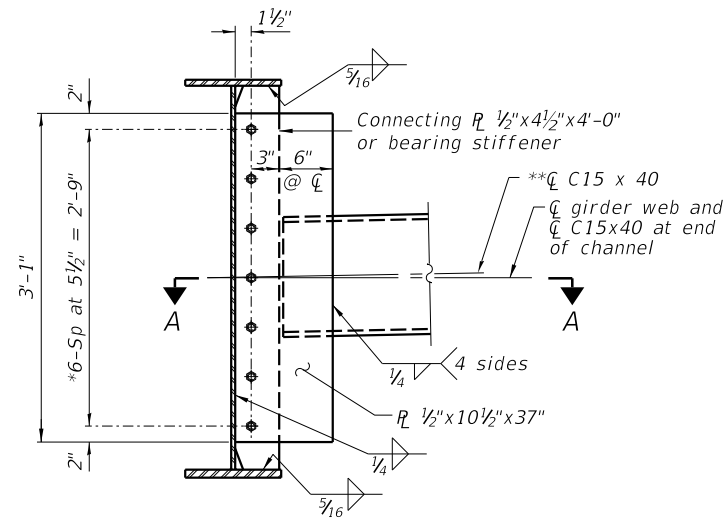
FIELD SPLICE DETAILS

**NOTES**

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



SECTION A-A



INTERIOR DIAPHRAGM

**Note:**

Two hardened washers required for each set of oversized holes.  
 \*3/4" Ø HS bolts, 1 1/16" Ø holes  
 \*\*Alternate channels C15x50 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.  
 The alternate, if utilized, shall be provided at no additional cost to the Department.

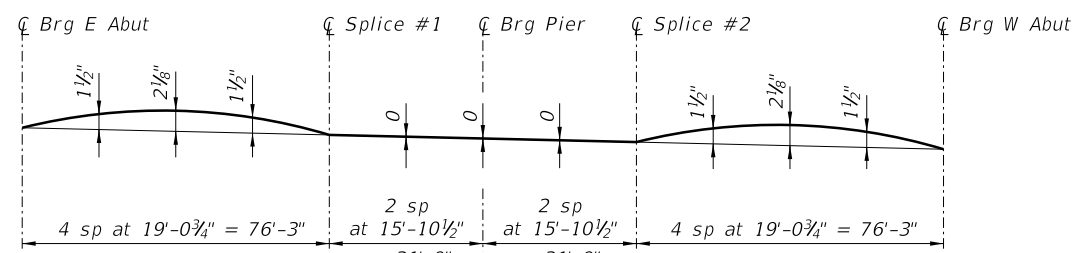


INITIAL BOLT ERECTION POSITION

FINAL ERECTION POSITION AFTER STAGE II DECK POUR

DIAPHRAGM

\*\*\*3/4" Ø HS bolts on the north side of Girder 6 with 1 3/16" x 1 7/8" vertical slotted holes in both connection plates. Bolts in slotted holes shall be finger tightened until the second stage pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the connection plates and bearing stiffeners shall be positioned as shown to allow the bolts to move to the final erection position under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the girders.

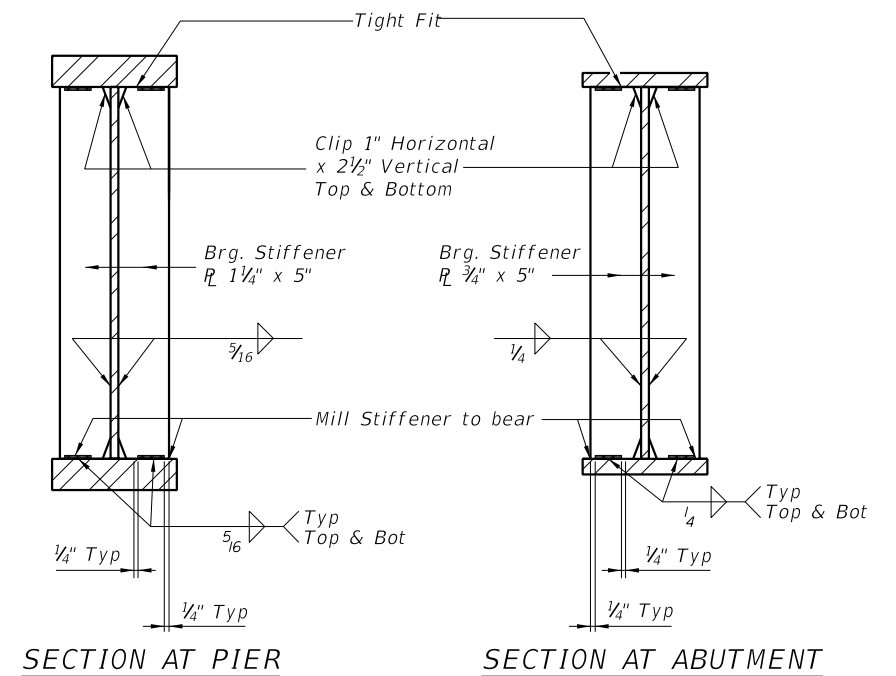


CAMBER DIAGRAM

\*TOP OF WEB ELEVATIONS

| Location          | Girder 1 | Girder 2 | Girder 3 | Girder 4 | Girder 5 | Girder 6 | Girder 7 | Girder 8 | Girder 9 | Girder 10 | Girder 11 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| CL Brg at E. Abut | 628.01   | 628.12   | 628.27   | 628.43   | 628.60   | 628.76   | 628.82   | 628.66   | 628.50   | 628.34    | 628.18    |
| CL Splice 1       | 627.52   | 627.63   | 627.78   | 627.94   | 628.10   | 628.27   | 628.33   | 628.17   | 628.01   | 627.85    | 627.69    |
| CL Brg at Pier 1  | 627.36   | 627.47   | 627.62   | 627.78   | 627.94   | 628.11   | 628.17   | 628.01   | 627.85   | 627.69    | 627.53    |
| CL Splice 2       | 627.20   | 627.31   | 627.46   | 627.62   | 627.79   | 627.95   | 628.01   | 627.85   | 627.69   | 627.53    | 627.37    |
| CL Brg at W. Abut | 626.93   | 627.04   | 627.19   | 627.35   | 627.52   | 627.68   | 627.74   | 627.58   | 627.42   | 627.26    | 627.10    |

\* For fabrication only



SECTION AT PIER

SECTION AT ABUTMENT

FILE NAME = i:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\Frmgdetail.dgn

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbenning      | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:01:40 AM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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**FRAMING DETAILS**  
STRUCTURE NO. 058-3409

SHEET NO. 23 OF 33 SHEETS

|                    |                |        |              |           |
|--------------------|----------------|--------|--------------|-----------|
| FAU RTE.           | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355               | 12-00251-00-BR | MACON  | 196          | 87        |
| CONTRACT NO. 95912 |                |        |              |           |

ILLINOIS FED. AID PROJECT

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\momtable.dgn

| INTERIOR GIRDER MOMENT TABLE             |                    |           |        |           |
|--|--------------------|-----------|--------|-----------|
|  |                    | 0.4 Sp. 1 | Pier   | 0.6 Sp. 2 |
| <i>I<sub>s</sub></i>                     | (in <sup>4</sup> ) | 17086     | 40203  | 17086     |
| <i>I<sub>c</sub>(n)</i>                  | (in <sup>4</sup> ) | 44021     | 82275  | 44021     |
| <i>I<sub>c</sub>(3n)</i>                 | (in <sup>4</sup> ) | 33276     | 61792  | 33276     |
| <i>I<sub>c</sub>(cr)</i>                 | (in <sup>4</sup> ) | -         | -      | -         |
| <i>S<sub>s</sub></i>                     | (in <sup>3</sup> ) | 690.3     | 1546.3 | 690.3     |
| <i>S<sub>c</sub>(n)</i>                  | (in <sup>3</sup> ) | 985.7     | 1945.5 | 985.7     |
| <i>S<sub>c</sub>(3n)</i>                 | (in <sup>3</sup> ) | 903.7     | 1796.8 | 903.7     |
| <i>S<sub>c</sub>(cr)</i>                 | (in <sup>3</sup> ) | -         | -      | -         |
| <i>DC1</i>                               | (k/')              | 0.96      | 1.10   | 0.96      |
| <i>MDC1</i>                              | ('k)               | 656       | 1847   | 656       |
| <i>DC2</i>                               | (k/')              | 0.26      | 0.26   | 0.26      |
| <i>MDC2</i>                              | ('k)               | 183       | 452    | 183       |
| <i>DW</i>                                | (k/')              | 0.39      | 0.39   | 0.39      |
| <i>MDW</i>                               | ('k)               | 273       | 673    | 273       |
| <i>LLDF</i>                              |                    | 0.577     | 0.616  | 0.577     |
| <i>M<sub>ℓ</sub> + IM</i>                | ('k)               | 1378      | 1897   | 1378      |
| <i>Mu (Strength I)</i>                   | ('k)               | 3870      | 7203   | 3870      |
| <i>∅f Mn</i>                             | ('k)               | 4903      | 7543   | 4903      |
| <i>f<sub>s</sub> DC1</i>                 | (ksi)              | 11.4      | 14.3   | 11.4      |
| <i>f<sub>s</sub> DC2</i>                 | (ksi)              | 2.4       | 3.0    | 2.4       |
| <i>f<sub>s</sub> DW</i>                  | (ksi)              | 3.6       | 4.5    | 3.6       |
| <i>f<sub>s</sub> (ℓ+IM)</i>              | (ksi)              | 16.8      | 11.7   | 16.8      |
| <i>f<sub>s</sub> (Service II)</i>        | (ksi)              | 39.3      | 37.1   | 39.3      |
| <i>0.95Rh Fyf</i>                        | (ksi)              | 47.5      | 47.5   | 47.5      |
| <i>f<sub>s</sub> (Total)(Strength I)</i> | (ksi)              | -         | -      | -         |
| <i>∅f F<sub>n</sub></i>                  | (ksi)              | -         | -      | -         |
| <i>Vf</i>                                | (k)                | 29.7      | 30.2   | 29.7      |

| INTERIOR GIRDER REACTION TABLE<br>HL93 Loading |           |          |          |          |
|--|-----------|----------|----------|----------|
|  | Abutments |          | Pier     |          |
|  | Interior  | Exterior | Interior | Exterior |
| <i>LLDF</i>                                    | 0.797     | 0.618    | 0.797    | 0.618    |
| <i>OCF</i>                                     | -         | 1.000    | -        | -        |
| <i>RDC1 (k)</i>                                | 37.0      | 36.6     | 147.0    | 145.3    |
| <i>RDC2 (k)</i>                                | 9.9       | 5.7      | 36.5     | 21.0     |
| <i>RDW (k)</i>                                 | 14.7      | 10.7     | 54.3     | 39.4     |
| <i>R<sub>ℓ</sub> + IM (k)</i>                  | 91.2      | 79.7     | 179.5    | 157.0    |
| <i>RTotal (k)</i>                              | 152.7     | 132.7    | 417.3    | 362.8    |

*I<sub>s</sub>, S<sub>s</sub>*: Non-composite moment of inertia and section modulus of the steel section used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(n), S<sub>c</sub>(n)*: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(3n), S<sub>c</sub>(3n)*: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f<sub>s</sub>*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*I<sub>c</sub>(cr), S<sub>c</sub>(cr)*: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f<sub>s</sub>* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

*DC1*: Un-factored non-composite dead load (kips/ft.).  
*MDC1*: Un-factored moment due to non-composite dead load (kip-ft.).  
*DC2*: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
*LLDF*: Live Load distribution factor  
*MDC2*: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
*DW*: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
*MDW*: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
*M<sub>ℓ</sub> + IM*: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
*Mu (Strength I)*: Factored design moment (kip-ft.).  
 $1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{\ell} + IM$   
*∅f Mn*: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
*f<sub>s</sub> DC1*: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
*MDC1 / S<sub>c</sub>*  
*f<sub>s</sub> DC2*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
*MDC2 / S<sub>c</sub>(3n) or MDC2 / S<sub>c</sub>(cr) as applicable.*  
*f<sub>s</sub> DW*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
*MDW / S<sub>c</sub>(3n) or MDW / S<sub>c</sub>(cr) as applicable.*  
*f<sub>s</sub> (ℓ+IM)*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
 $M_{\ell} + IM / S<sub>c</sub>(n) or MDW / S<sub>c</sub>(cr) as applicable.$   
*f<sub>s</sub> (Service II)*: Sum of stresses as computed below (ksi).  
 $f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(\ell + IM)$   
*0.95RhFyf*: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
*f<sub>s</sub> (Total)(Strength I)*: Sum of stresses as computed below on non-compact section (ksi).  
 $1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(\ell + IM)$   
*∅f F<sub>n</sub>*: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).  
*Vf*: Maximum factored shear range in span computed according to Article 6.10.10.  
*OCF*: Obtuse correction factor

Note:  
*M<sub>ℓ</sub>* and *R<sub>ℓ</sub>* include the effects of centrifugal force and superelevation.

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbuening       | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:06:02 AM    | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2.0000' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022      | DATE         | REVISED - |



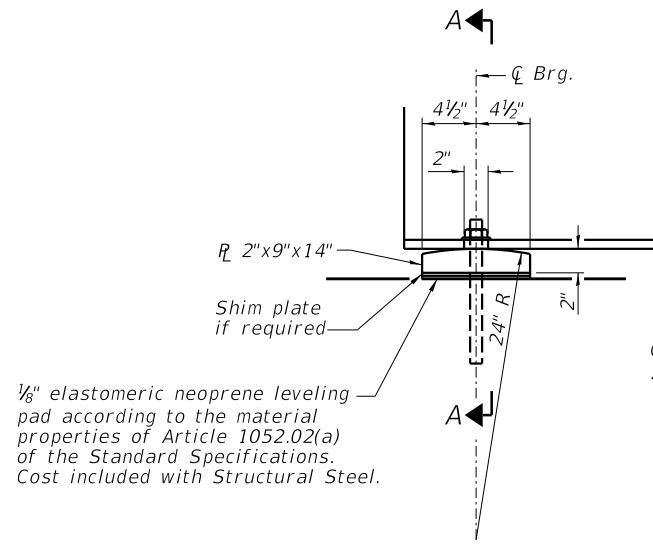
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**MOMENT TABLES**  
**STRUCTURE NO. 058-3409**

SHEET NO. 24 OF 33 SHEETS

| FAU RTE            | SECTION        | COUNTY | TOTAL SHEETS              | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 7355               | 12-00251-00-BR | MACON  | 196                       | 88        |
| CONTRACT NO. 95912 |                |        | ILLINOIS FED. AID PROJECT |           |

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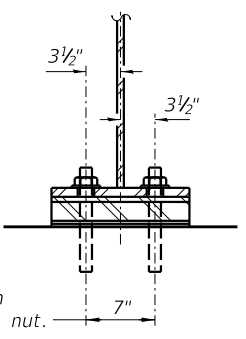


ELEVATION AT ABUTMENT

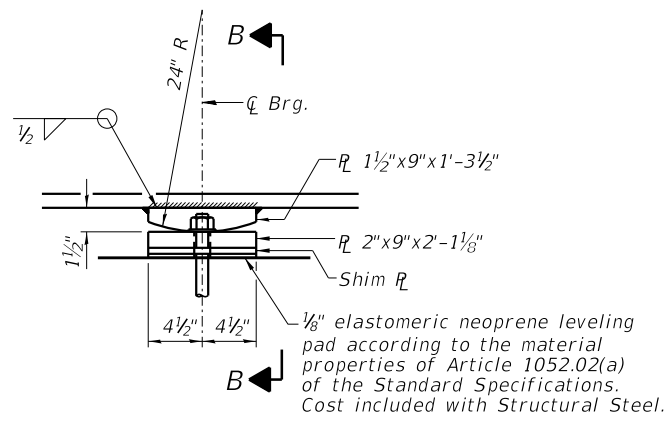
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1"  $\varnothing$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 3/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\varnothing$  holes in bearing plate.

FIXED BEARING



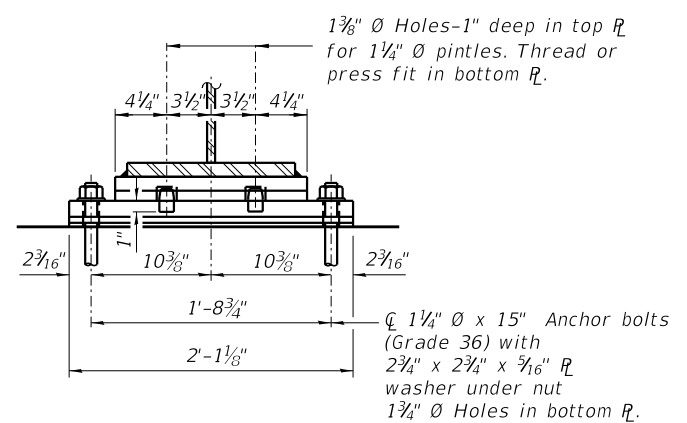
SECTION A-A



ELEVATION AT PIER

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

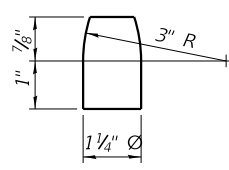
FIXED BEARING



SECTION B-B

1 3/8"  $\varnothing$  Holes-1" deep in top R for 1 1/4"  $\varnothing$  pintles. Thread or press fit in bottom R.

1 1/4"  $\varnothing$  x 15" Anchor bolts (Grade 36) with 2 1/4" x 2 1/4" x 3/16" R washer under nut. 1 3/4"  $\varnothing$  Holes in bottom R.



PINTLE

Notes:  
 Anchor bolts shall be ASTM F1554 all-thread (or an ENGINEER-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554 (Grade 36).  
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.  
 Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shapes and placed as shown in bearing details.

BILL OF MATERIAL

| Item                 | Unit | Total |
|----------------------|------|-------|
| Anchor Bolts, 1"     | Each | 44    |
| Anchor Bolts, 1 1/4" | Each | 22    |

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbuening      | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:56:34 PM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

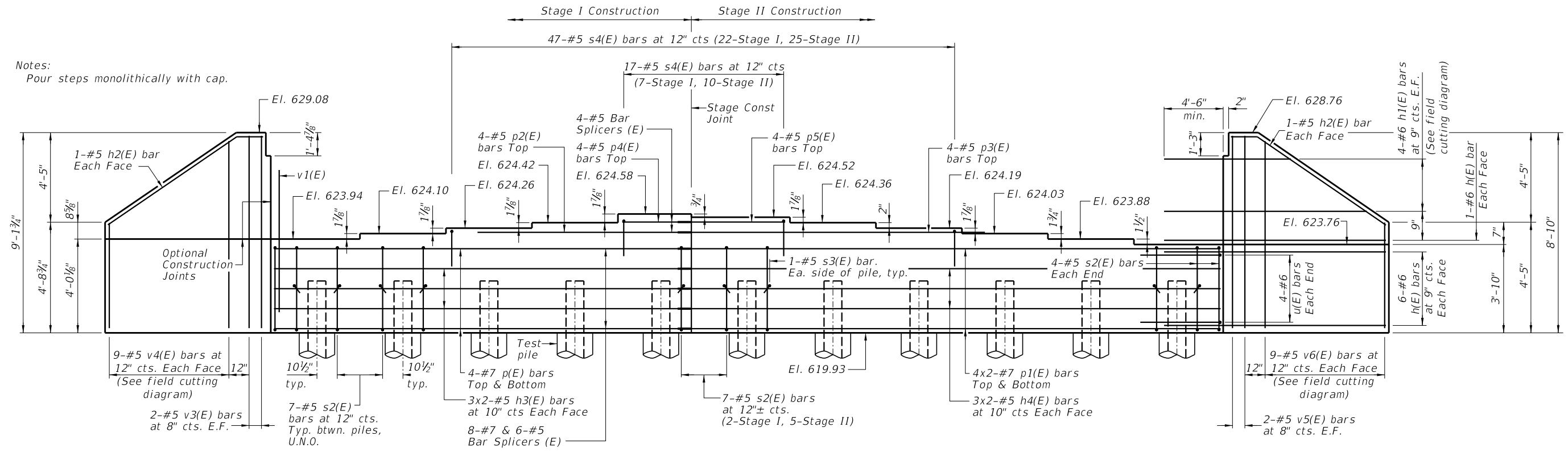
DECATUR (217) 422-8544  
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 184-001397

**BEARING DETAILS**  
**STRUCTURE NO. 058-3409**

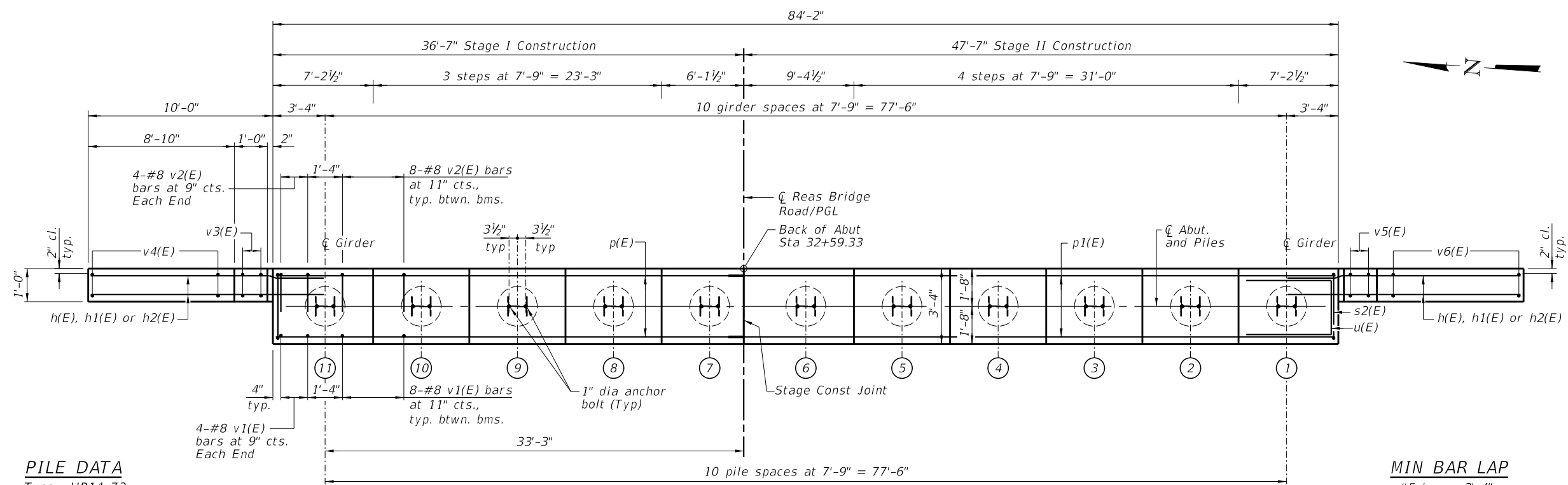
SHEET NO. 25 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 89        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

Notes:  
Pour steps monolithically with cap.



**ELEVATION - EAST ABUTMENT**  
(Looking East)



**PLAN - EAST ABUTMENT**

**PILE DATA**  
Type: HP14x73  
Nominal Required Bearing: 431 k  
Factored Resistance Available: 182 k  
Est. Length: 72'  
No. Production Piles: 10  
No. Test Piles: 1

**MIN BAR LAP**  
#5 bar = 3'-4"  
#7 bar = 4'-8"

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|                             |              |           |
|-----------------------------|--------------|-----------|
| USER NAME = jbuening        | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:52:54 PM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8,0000' / 1in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022       | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

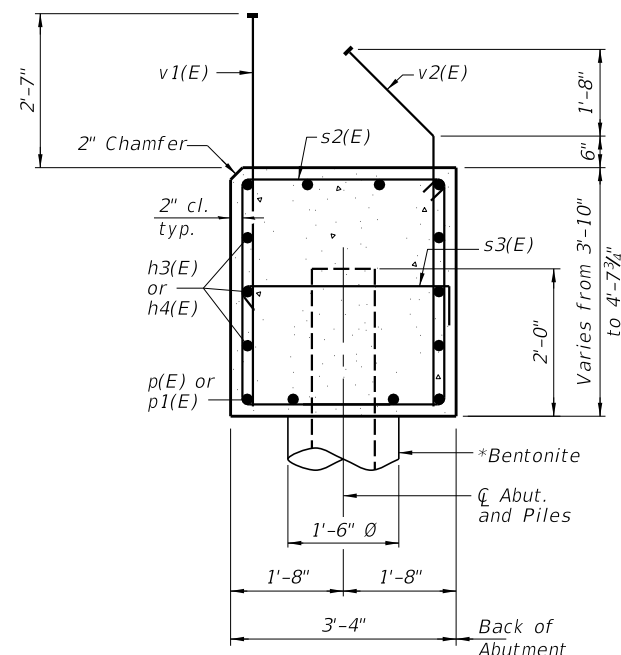
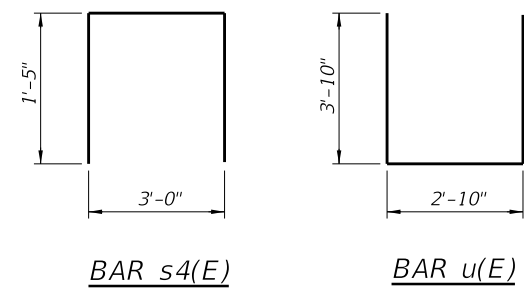
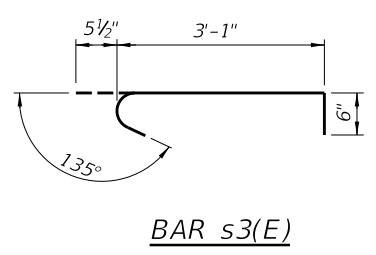
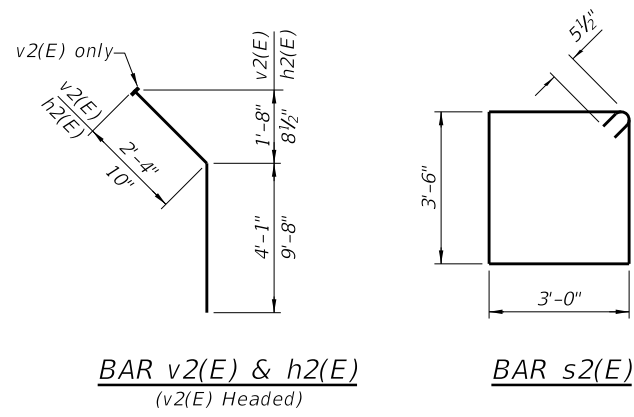
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184-001397

**EAST ABUTMENT**  
**STRUCTURE NO. 058-3409**  
SHEET NO. 26 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 90        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

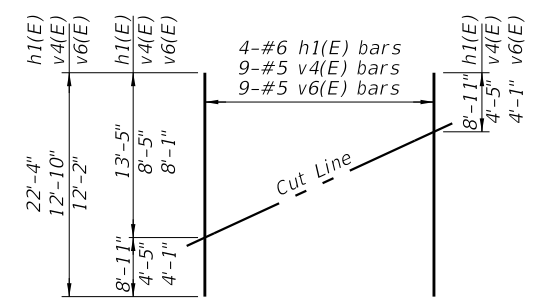


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**SECTION THRU ABUTMENT**

\*Piles shall be driven into 1'-6" diameter precored holes extending to Elev. 614.00 according to Article 512.09(c) of the Standard Specifications. Holes to be backfilled with Bentonite. Cost included with Driving Piles.



**FIELD CUTTING DIAGRAM**  
Order h1(E), v4(E) and v6(E) full length. Cut as shown and use remainder of bars in opposite face.

**BILL OF MATERIAL EAST ABUTMENT**

| Bar                              | No.     | Size | Length  | Shape |
|----------------------------------|---------|------|---------|-------|
| h(E)                             | 28      | #6   | 14'-4"  | —     |
| h1(E)                            | 8       | #6   | 22'-4"  | —     |
| h2(E)                            | 4       | #5   | 10'-6"  | —     |
| h3(E)                            | 12      | #5   | 19'-10" | —     |
| h4(E)                            | 12      | #5   | 25'-4"  | —     |
| p(E)                             | 8       | #7   | 36'-2"  | —     |
| p1(E)                            | 16      | #7   | 26'-0"  | —     |
| p2(E)                            | 4       | #5   | 21'-4"  | —     |
| p3(E)                            | 4       | #5   | 24'-7"  | —     |
| p4(E)                            | 4       | #5   | 5'-10"  | —     |
| p5(E)                            | 4       | #5   | 9'-1"   | —     |
| s2(E)                            | 78      | #5   | 13'-11" | —     |
| s3(E)                            | 22      | #5   | 4'-1"   | —     |
| s4(E)                            | 64      | #5   | 5'-10"  | —     |
| u(E)                             | 8       | #6   | 10'-6"  | —     |
| v1(E)                            | 88      | #8   | 6'-2"   | —     |
| v2(E)                            | 88      | #8   | 6'-5"   | —     |
| v3(E)                            | 4       | #5   | 8'-9"   | —     |
| v4(E)                            | 9       | #5   | 12'-10" | —     |
| v5(E)                            | 4       | #5   | 8'-5"   | —     |
| v6(E)                            | 9       | #5   | 12'-2"  | —     |
| Structure Excavation             | Cu. Yd. |      | 67      |       |
| Concrete Structures              | Cu. Yd. |      | 49.4    |       |
| Reinforcement Bars, Epoxy Coated | Pound   |      | 8,180   |       |
| Furnishing Steel Piles HP14x73   | Foot    |      | 720     |       |
| Driving Piles                    | Foot    |      | 720     |       |
| Test Pile Steel HP14x73          | Each    |      | 1       |       |

**BILL OF MATERIAL WEST ABUTMENT**

| Bar                              | No.     | Size | Length  | Shape |
|----------------------------------|---------|------|---------|-------|
| h(E)                             | 28      | #6   | 14'-4"  | —     |
| h1(E)                            | 8       | #6   | 22'-4"  | —     |
| h2(E)                            | 4       | #5   | 10'-6"  | —     |
| h3(E)                            | 12      | #5   | 19'-10" | —     |
| h4(E)                            | 12      | #5   | 25'-4"  | —     |
| p(E)                             | 8       | #7   | 36'-2"  | —     |
| p1(E)                            | 16      | #7   | 26'-0"  | —     |
| p2(E)                            | 4       | #5   | 21'-4"  | —     |
| p3(E)                            | 4       | #5   | 24'-7"  | —     |
| p4(E)                            | 4       | #5   | 5'-10"  | —     |
| p5(E)                            | 4       | #5   | 9'-1"   | —     |
| s2(E)                            | 78      | #5   | 13'-11" | —     |
| s3(E)                            | 22      | #5   | 4'-1"   | —     |
| s4(E)                            | 64      | #5   | 5'-10"  | —     |
| u(E)                             | 8       | #6   | 10'-6"  | —     |
| v1(E)                            | 88      | #8   | 6'-2"   | —     |
| v2(E)                            | 88      | #8   | 6'-5"   | —     |
| v3(E)                            | 4       | #5   | 8'-9"   | —     |
| v4(E)                            | 9       | #5   | 12'-10" | —     |
| v5(E)                            | 4       | #5   | 8'-5"   | —     |
| v6(E)                            | 9       | #5   | 12'-2"  | —     |
| Structure Excavation             | Cu. Yd. |      | 86      |       |
| Concrete Structures              | Cu. Yd. |      | 49.4    |       |
| Reinforcement Bars, Epoxy Coated | Pound   |      | 8,180   |       |
| Furnishing Steel Piles HP14x73   | Foot    |      | 600     |       |
| Driving Piles                    | Foot    |      | 600     |       |
| Test Pile Steel HP14x73          | Each    |      | 1       |       |

**NOTES**

For details of piles see sheet 31 of 33.  
For details of bar splicers see sheet 32 of 33.  
Bars indicated thus 4x2-#7 etc. indicates 4 lines of bars with 2 lengths per line.

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbenning       | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:53:24 PM    | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8,0000' / in. | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022      | DATE         | REVISED - |

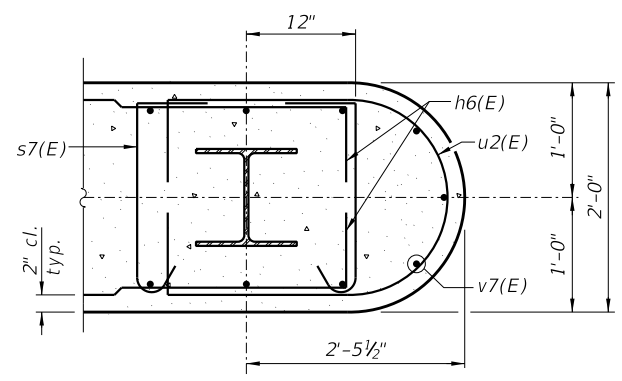
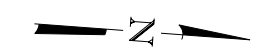
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

DECATUR (217) 422-8544  
SCHAUMBURG (773) 714-0950  
ROCKFORD (815) 489-0050  
184-001397

**ABUTMENT DETAILS**  
**STRUCTURE NO. 058-3409**  
SHEET NO. 28 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 92        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

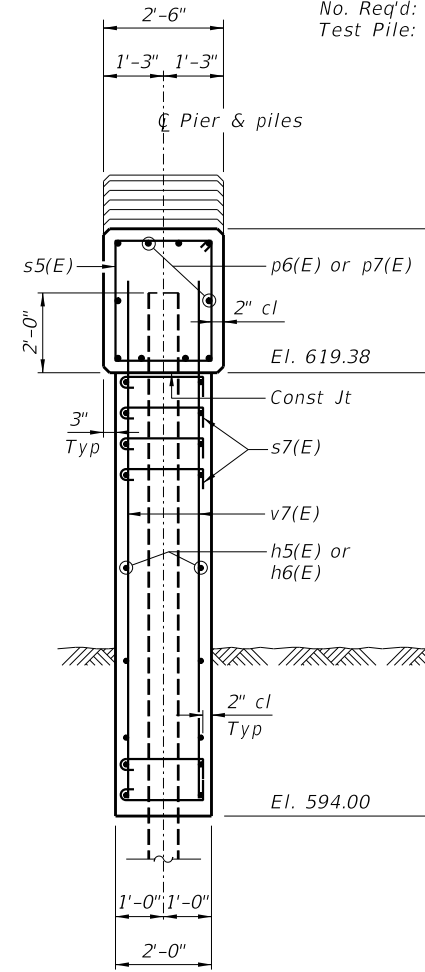




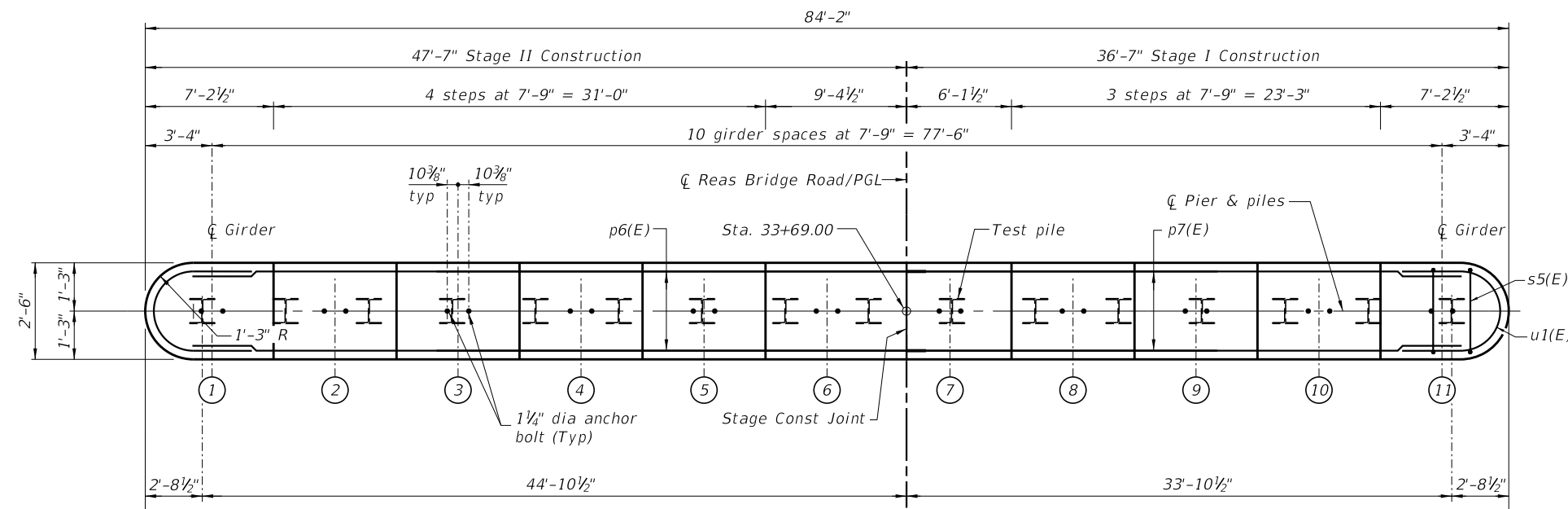
SECTION C-C

**PILE DATA**

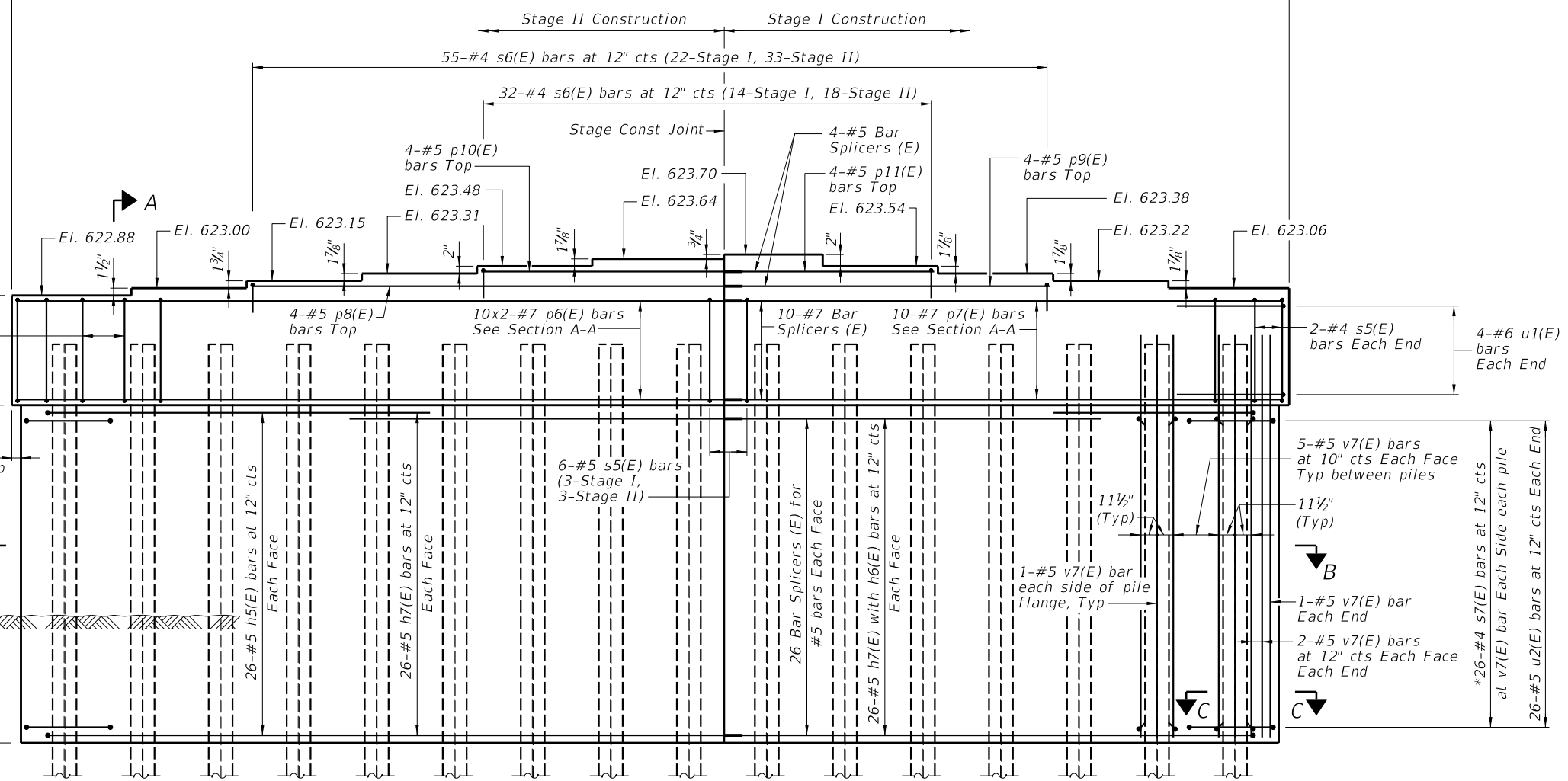
Type: Steel HP14x73  
 Nominal Required Bearing: 517 kips  
 Factored Resistance Available: 284 kips  
 Est. Length: 86'  
 No. Req'd: 15  
 Test Pile: 1



SECTION A-A



PLAN



ELEVATION  
(Looking West)

\*Hook s7(E) bars around h5(E), h6(E) and v7(E) bars.  
 Clear cover for the s7(E) bars will be 1 3/8".

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Replacement\CADD\Structural\EastBridge\piledt1.svdg

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbenning      | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:06:33 AM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8,0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

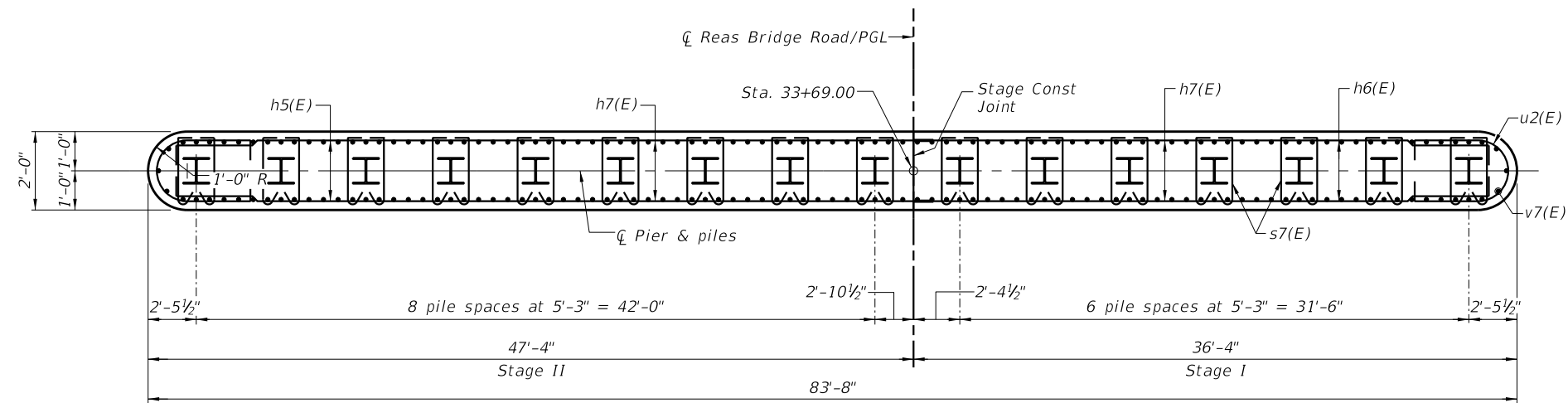
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0050  
 ROCKFORD (815) 489-0050  
 184-001397

**PIER**  
**STRUCTURE NO. 058-3409**

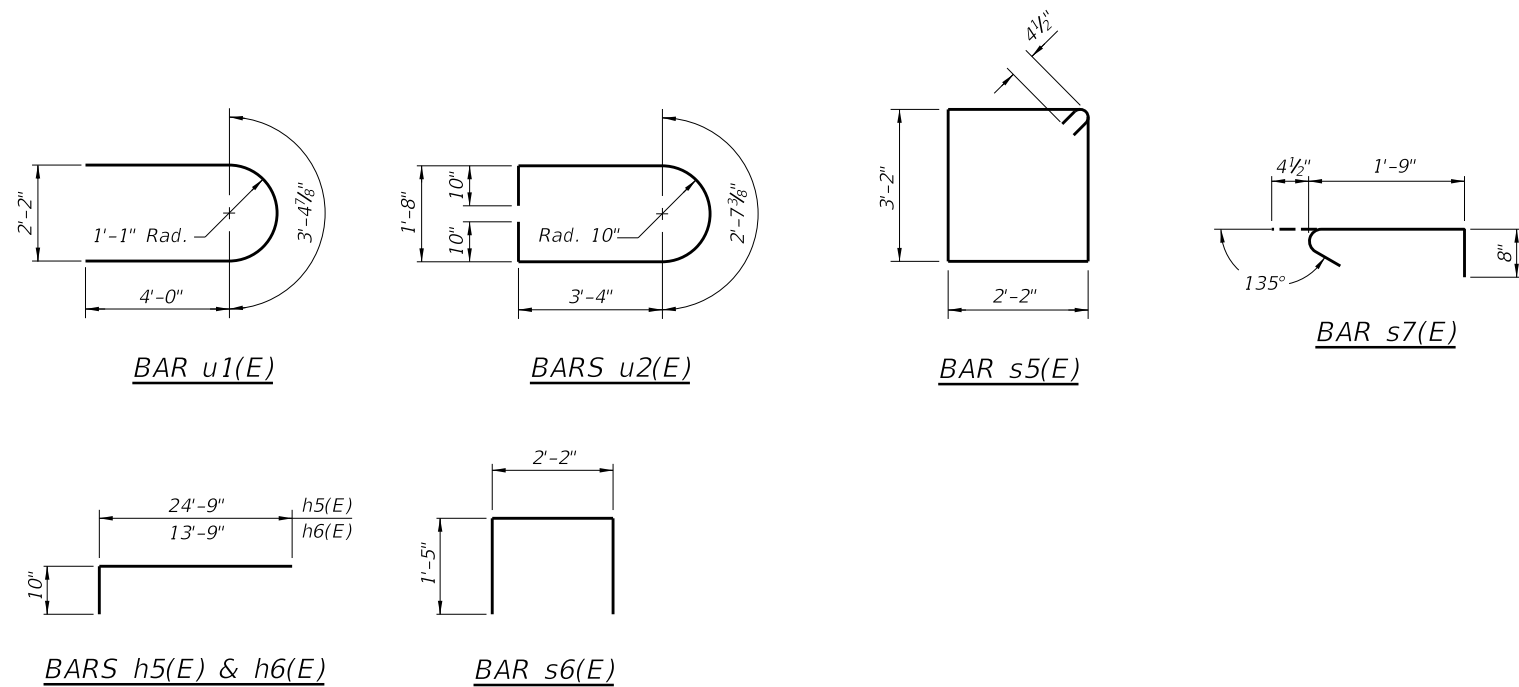
SHEET NO. 29 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 93        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

FILE NAME = i:\municipalities\macon\macon-county\6487-reas-bridge-road-bridge-replacement\cadd\structural\east-bridge\pier.dwg



**SECTION B-B**



**MIN BAR LAP**  
 #5 bar = 3'-4"  
 #7 bar = 4'-8"

**BILL OF MATERIAL**

| Bar                              | No. | Size    | Length  | Shape |
|----------------------------------|-----|---------|---------|-------|
| h5(E)                            | 52  | #5      | 25'-7"  | ┌───┐ |
| h6(E)                            | 52  | #5      | 14'-7"  | ┌───┐ |
| h7(E)                            | 104 | #5      | 24'-9"  | ┌───┐ |
| p6(E)                            | 20  | #7      | 25'-5"  | ───   |
| p7(E)                            | 10  | #7      | 35'-2"  | ───   |
| p8(E)                            | 4   | #5      | 32'-4"  | ───   |
| p9(E)                            | 4   | #5      | 21'-4"  | ───   |
| p10(E)                           | 4   | #5      | 16'-10" | ───   |
| p11(E)                           | 4   | #5      | 13'-7"  | ───   |
| s5(E)                            | 79  | #4      | 11'-5"  | □     |
| s6(E)                            | 87  | #4      | 5'-0"   | ┌───┐ |
| s7(E)                            | 832 | #4      | 2'-10"  | ┌───┐ |
| u1(E)                            | 8   | #6      | 11'-5"  | U     |
| u2(E)                            | 52  | #5      | 11'-0"  | U     |
| v7(E)                            | 192 | #5      | 27'-9"  | ───   |
| Cofferdam Excavation             |     | Cu. Yd. | 473     |       |
| Cofferdam (Type 2) (Location 1)  |     | Each    | 1       |       |
| Concrete Structures              |     | Cu. Yd. | 186.8   |       |
| Reinforcement Bars, Epoxy Coated |     | Pound   | 15,730  |       |
| Furnishing Steel Piles HP14x73   |     | Foot    | 1,290   |       |
| Driving Piles                    |     | Foot    | 1,290   |       |
| Test Pile Steel HP14x73          |     | Each    | 1       |       |

**Notes:**

- Pour steps monolithically with cap.
- For details of piles, see sheet 31 of 33.
- For details of Bar Splicers, see sheet 32 of 33.
- All edges shall have standard 3/4" chamfer.
- Space reinforcement in cap to miss anchor bolts.
- Bars indicated thus 4x2-#7 etc. indicates 4 lines of bars with 2 lengths per line.

|                           |              |           |
|---------------------------|--------------|-----------|
| USER NAME = jbenning      | DESIGNED JMB | REVISED - |
| PLOT TIME = 12:06:47 AM   | DRAWN RLK    | REVISED - |
| PLOT SCALE = 8.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022     | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

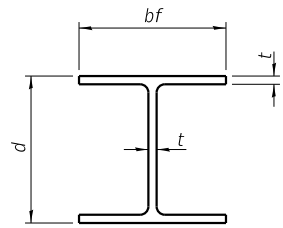
DECATUR (217) 422-8544  
 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**PIER DETAILS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 30 OF 33 SHEETS

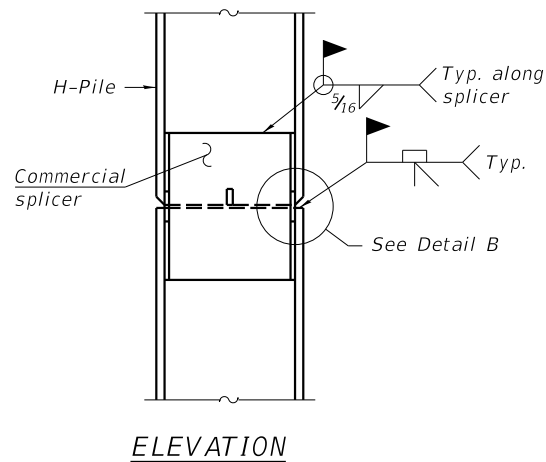
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 94        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

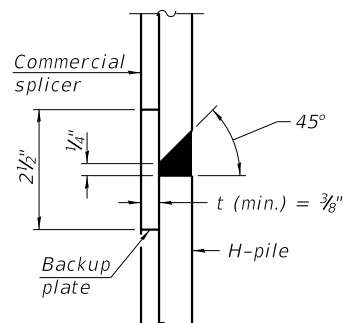


**STEEL PILE TABLE**

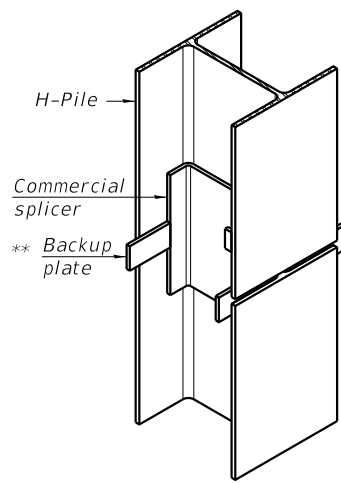
| Designation | Depth d | Flange width bf | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117   | 14 1/4" | 14 7/8"         | 1 3/16"                    | 30"                   |
| x102        | 14"     | 14 3/4"         | 1 1/16"                    | 30"                   |
| x89         | 13 7/8" | 14 3/4"         | 5/8"                       | 30"                   |
| x73         | 13 3/8" | 14 3/8"         | 1/2"                       | 30"                   |
| HP 12x84    | 12 1/4" | 12 1/4"         | 1 1/16"                    | 24"                   |
| x74         | 12 1/8" | 12 1/4"         | 5/8"                       | 24"                   |
| x63         | 12"     | 12 1/8"         | 1/2"                       | 24"                   |
| x53         | 11 3/4" | 12"             | 7/16"                      | 24"                   |
| HP 10x57    | 10"     | 10 1/4"         | 9/16"                      | 24"                   |
| x42         | 9 3/4"  | 10 1/8"         | 7/16"                      | 24"                   |
| HP 8x36     | 8"      | 8 1/8"          | 7/16"                      | 18"                   |



**ELEVATION**

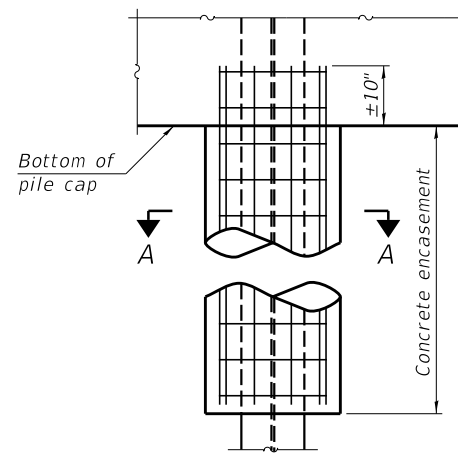


**DETAIL "B"**

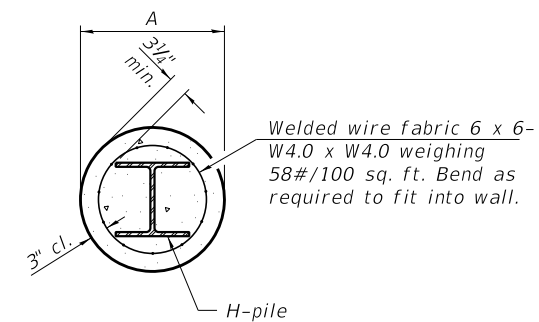


**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

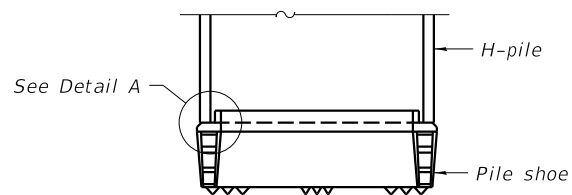


**ELEVATION**

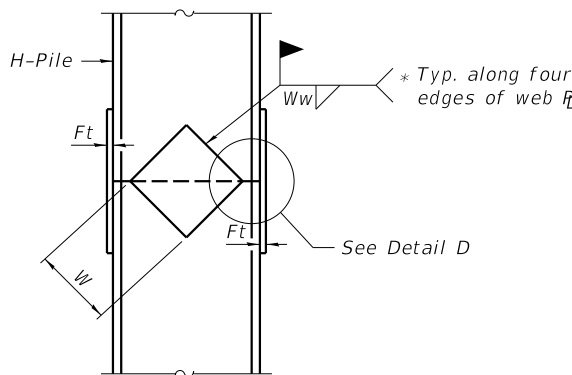


**SECTION A-A**

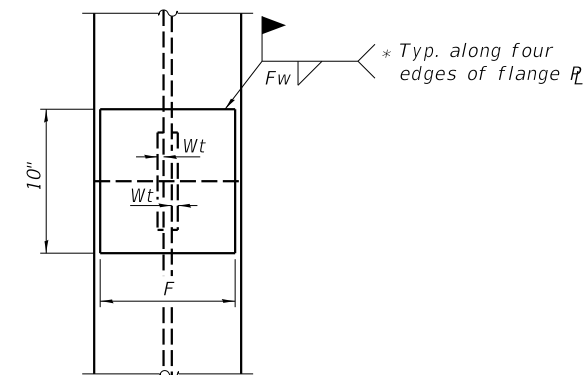
**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**



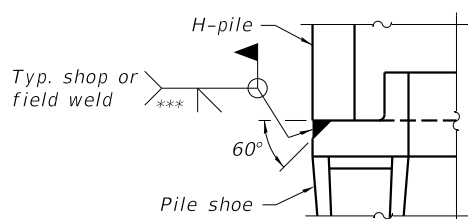
**ELEVATION**



**ELEVATION**

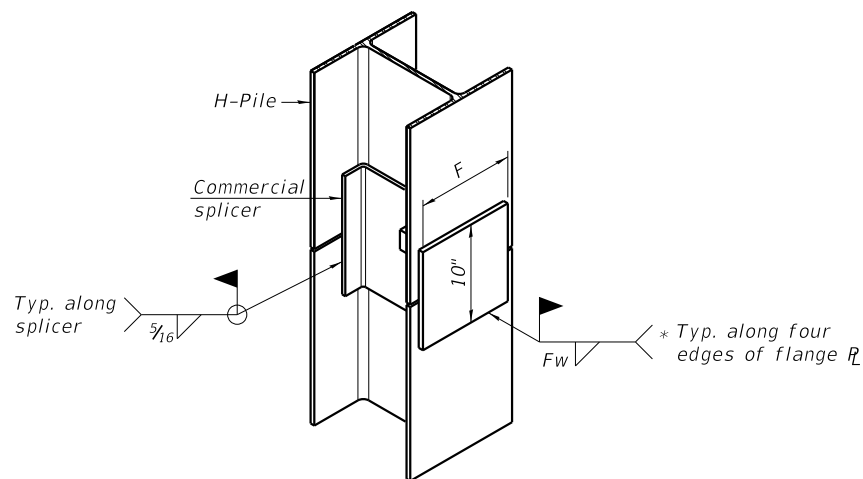


**END VIEW**



**DETAIL A**

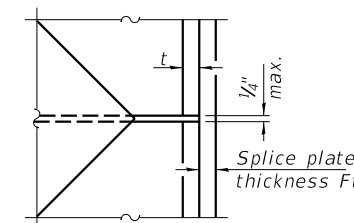
**SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

| Designation | F       | Ft   | Fw      | W      | Wt   | Ww   |
|-------------|---------|------|---------|--------|------|------|
| HP 14x117   | 12 1/2" | 1"   | 7/8"    | 7 3/4" | 5/8" | 1/2" |
| x102        | 12 1/2" | 7/8" | 3/4"    | 7 3/4" | 5/8" | 1/2" |
| x89         | 12 1/2" | 3/4" | 1 1/16" | 7 3/4" | 5/8" | 1/2" |
| x73         | 12 1/2" | 5/8" | 9/16"   | 7 3/4" | 5/8" | 1/2" |
| HP 12x84    | 10"     | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x74         | 10"     | 7/8" | 1 1/16" | 6 1/2" | 5/8" | 1/2" |
| x63         | 10"     | 5/8" | 1/2"    | 6 1/2" | 1/2" | 3/8" |
| x53         | 10"     | 5/8" | 1/2"    | 6 1/2" | 1/2" | 3/8" |
| HP 10x57    | 8"      | 3/4" | 9/16"   | 5 1/4" | 1/2" | 3/8" |
| x42         | 8"      | 5/8" | 9/16"   | 5 1/4" | 1/2" | 3/8" |
| HP 8x36     | 7"      | 5/8" | 7/16"   | 4 1/4" | 1/2" | 3/8" |

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = i:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridgePiles.dgn

F-HP 1-1-2020

|                              |              |
|------------------------------|--------------|
| USER NAME = j_buenting       | DESIGNED JMB |
| PLOT TIME = 12:07:11 AM      | DRAWN RLK    |
| PLOT SCALE = 2:0.0000 ' = 1" | CHECKED BCG  |
| PLOT DATE = 1/25/2022        | DATE         |

|           |
|-----------|
| REVISED - |
| REVISED - |
| REVISED - |
| REVISED - |

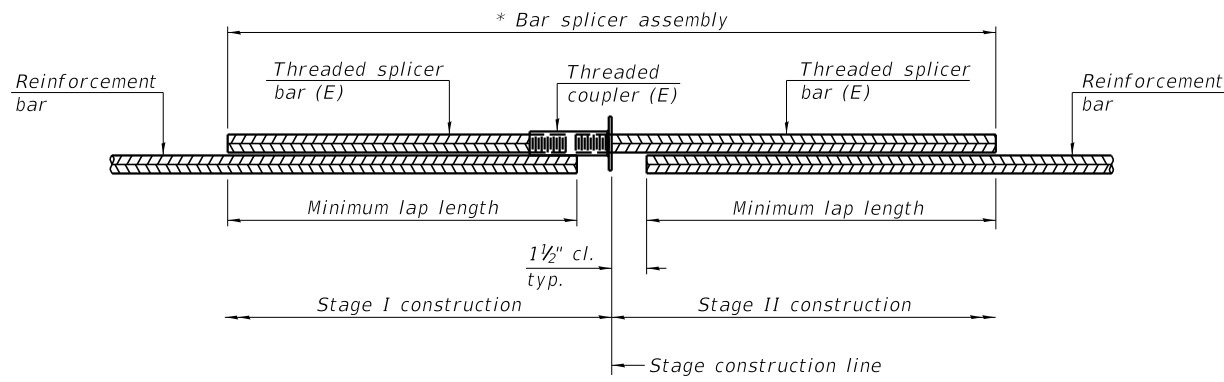
**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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ROCKFORD (815) 489-0050  
184-001397

**HP PILE DETAILS**  
**STRUCTURE NO. 058-3409**

SHEET NO. 31 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 95        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

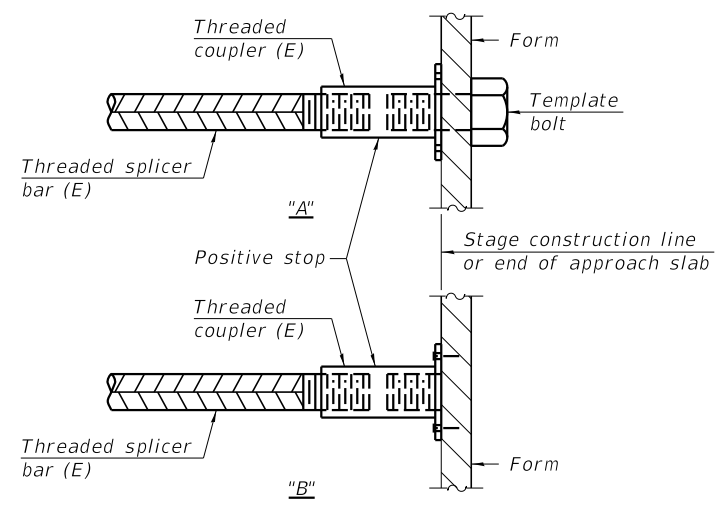


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

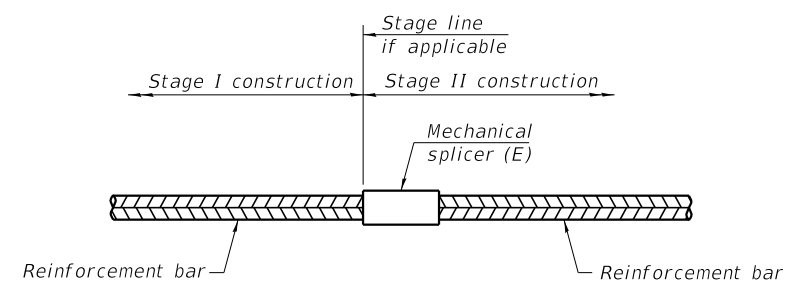
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location      | Bar size | No. assemblies required | Minimum lap length |
|---------------|----------|-------------------------|--------------------|
| Deck          | #5       | 966                     | 3'-6"              |
| Approach slab | #5       | 172                     | 3'-0"              |
| Approach slab | #8       | 120                     | 4'-9"              |
| E. abutment   | #5       | 14                      | 3'-6"              |
| E. abutment   | #7       | 8                       | 4'-8"              |
| W. abutment   | #5       | 14                      | 3'-6"              |
| W. abutment   | #7       | 8                       | 4'-8"              |
| Pier          | #5       | 60                      | 3'-6"              |
| Pier          | #7       | 10                      | 4'-8"              |
| E. diaphragm  | #6       | 8                       | 5'-4"              |
| W. diaphragm  | #6       | 8                       | 5'-4"              |



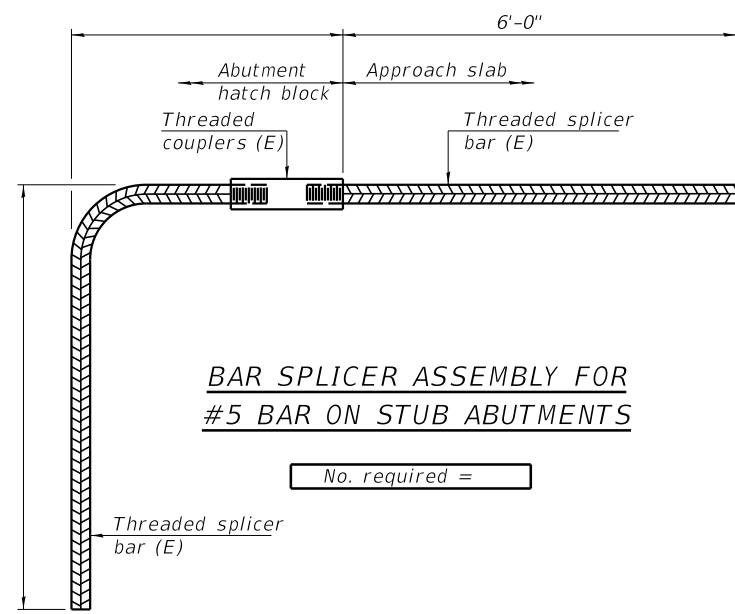
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



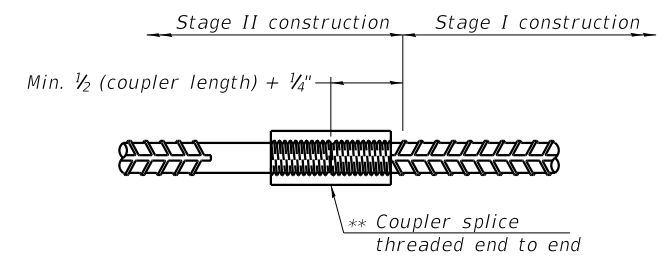
**STANDARD MECHANICAL SPLICER**

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
|          |          |                         |
|          |          |                         |
|          |          |                         |
|          |          |                         |



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =



**DETAIL A**

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = I:\Municipalities\Macon County\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\EastBridge\bar-splicer.dgn

BSD-1

1-1-2020

**NOT FOR CONSTRUCTION**

|                              |              |           |
|------------------------------|--------------|-----------|
| USER NAME = jbenning         | DESIGNED JMB | REVISED - |
| PLOT TIME = 11:55:30 PM      | DRAWN RLK    | REVISED - |
| PLOT SCALE = 2:0.0000 ' = 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/24/2022        | DATE         | REVISED - |

**CHASTAIN & ASSOCIATES LLC**  
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 SCHAUMBURG (773) 714-0950  
 ROCKFORD (815) 489-0050  
 184-001397

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**  
**STRUCTURE NO. 058-3409**  
 SHEET NO. 32 OF 33 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 96        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

B-06  
Sta. 32+61, 6.6' LT  
06/07/2016

| Depth | N     | Qu    | w% | Description                                    |
|-------|-------|-------|----|--|
| 526.1 |       |       |    | Asphalt  |
| 625.5 | 9     | 1.5P  | 15 | SAND, SILT, GRAVEL & CLAY (fill)               |
| 623.1 | 5     | 2.52S | 14 | VERY STIFF brown mottled with gray SILTY CLAY  |
|       | 5     | 1.96S | 13 |  |
|       | 8     | 2.52B | 15 |  |
| 614.1 |       |       |    | MEDIUM STIFF gray to dark gray SANDY CLAY      |
| 609.1 |       |       |    | Gray to dark gray CLAYEY SAND                  |
| 607.6 |       |       |    | DD   |
| 604.1 | 5     | 1.12S | 44 | MEDIUM STIFF very dark gray CLAY (LL=60 PI=33) |
| 599.1 | 1     |       | 27 | VERY LOOSE dark gray SILTY SAND                |
|       | 2     |       | 19 |  |
| 589.1 | 36    |       | 19 | DENSE gray SILTY SAND                          |
| 581.7 | 31    |       | 13 | DENSE gray SILTY SAND                          |
| 577.1 | 33    |       | 19 | DENSE gray SILTY SAND                          |
| 574.1 | 19    |       | 9  | MEDIUM DENSE gray SILTY SAND                   |
| 569.1 | 50/5" | 8.24S | 7  | HARD gray SILTY CLAY                           |
|       | 50/5" | 4.36S | 7  |  |
| 560.6 |       |       |    | Bottom of Hole = 65.5 feet                     |

B-07  
Sta. 33+54, 30' RT  
06/16/2016

| Depth | N       | Qu    | w% | Description                     |
|-------|---------|-------|----|---------------------------------|
| 614.5 |         |       |    | Lakewater                       |
| 598.5 |         |       |    | Unconsolidated sediments        |
| 596.0 |         |       |    | LOOSE dark gray GRAVELLY SAND   |
|       | 5       |       | 14 |                                 |
|       | 7       |       | 13 |                                 |
| 586.5 |         |       |    | MEDIUM DENSE gray SAND          |
|       | 20      |       | 20 |                                 |
|       | 14      |       | 16 |                                 |
| 571.5 | 30      |       | 16 | HARD dark gray SILTY SANDY CLAY |
|       | 46      | 8.53S | 9  |                                 |
|       | 97      | 9.27S | 10 |                                 |
|       | 50/4.5" | 9.27S | 11 |                                 |
|       | 44      | 6.21B | 11 |                                 |
| 550.5 |         |       |    | VERY DENSE gray SILTY SAND      |
| 547.3 | 71      |       | 20 | Light gray to gray SHALE        |
|       | 8       |       | 8  |                                 |
| 543.3 | 50/3"   | 2.5P  | 10 | Bottom of Hole = 71.3 feet      |

B-08  
Sta. 34+77, 7.6' LT  
06/08/2016

| Depth | N     | Qu     | w% | Description                         |
|-------|-------|--------|----|-------------------------------------|
| 626.6 |       |        |    | Asphalt                             |
| 625.8 |       |        |    | SILT, CLAY, SAND & GRAVEL (fill)    |
| 624.9 | 10    | 4.25P  | 12 | HARD brown SILTY CLAY               |
| 623.6 | 5     | 2.25P  | 12 | VERY STIFF brown to gray SILTY CLAY |
|       | 8     | 3.30S  | 12 |                                     |
|       | 7     | 3.30S  | 14 |                                     |
|       | 8     | 1.94S  | 16 |                                     |
| 609.6 |       |        |    | SOFT dark gray SILTY CLAY           |
| 608.1 | 3     | 0.66S  | 23 | Dark gray CLAYEY SAND (LL=26 PI=13) |
| 606.6 |       | 0.25P  |    |                                     |
| 603.6 | 1     |        | 20 | VERY LOOSE dark gray SILTY SAND     |
|       | 8     |        | 29 |                                     |
| 594.6 |       |        |    | MEDIUM DENSE gray SAND              |
|       | 20    |        | 22 |                                     |
|       | 29    |        | 24 |                                     |
|       | 13    |        | 13 |                                     |
|       | 29    |        | 12 |                                     |
| 574.6 | 87    | 9.12S  | 8  | HARD gray to dark gray SILTY CLAY   |
| 566.6 | 50/4" | 12.78S | 9  |                                     |

|       |       |        |    |  |
|-------|-------|--------|----|--|
| 566.6 | 50/4" | 14.22S | 10 |  |
|       | 50/5" | 8.95S  | 10 |  |
| 553.1 | 50/5" |        |    | DENSE gray SILTY SAND                  |
| 547.6 | 50/4" | 4.5P   | 6  | HARD gray to light gray SILTY CLAY     |
| 545.6 |       |        |    | Gray SHALE                             |
| 542.8 | 50/3" | 4.5    | 12 | Rec. = 100%<br>RQD = 63%<br>Gray SHALE |
|       |       |        |    | Rec. = 100%<br>RQD = 72%               |
|       |       |        |    | Rec. = 100%<br>RQD = 94%               |
| 532.4 |       |        |    | Bottom of Hole = 94.2 feet             |

LEGEND

N Standard Penetration Test N (blows/ft)  
Qu Unconfined Strength (tsf)  
w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring  
DD during drilling  
Oh at completion  
24h = 24 hours after completion

|             |                        |                |           |   |                           |         |        |              |           |
|-------------|------------------------|----------------|-----------|---|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME =            | DESIGNED - KKC | REVISIONS | <b>SUBSURFACE DATA PROFILE</b><br><b>CH 24 (REA'S BRIDGE ROAD)</b><br>SHEET NO. 1 OF 2 SHEETS | F.A.I. RTE.               | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|             |                        | CHECKED - KKC  | REVISIONS |   |                           | MACON   |        |              |           |
|             | PLOT SCALE =           | DRAWN - EJM    | REVISIONS |   | CONTRACT NO.              |         |        |              |           |
|             | PLOT DATE = 08/30/2016 | CHECKED - KKC  | REVISIONS |   | ILLINOIS FED. AID PROJECT |         |        |              |           |

|                               |              |           |
|-------------------------------|--------------|-----------|
| USER NAME = jbenning          | DESIGNED JMB | REVISIONS |
| PLOT TIME = 12:09:23 AM       | DRAWN RLK    | REVISIONS |
| PLOT SCALE = 2:0.0000 ' / in. | CHECKED BCG  | REVISIONS |
| PLOT DATE = 1/25/2022         | DATE         | REVISIONS |

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

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184-001397

**SUBSURFACE DATA PROFILE**  
**STRUCTURE NO. 058-3409**  
SHEET NO. 33 OF 33 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 97        |
| CONTRACT NO. 95912        |                |        |              |           |
| ILLINOIS FED. AID PROJECT |                |        |              |           |

Existing Structure SN 058-3032:  
The existing bridge is a 300.0' long 6 span W-section beam bridge. The stub abutments are supported by precast concrete piling. Piers 1, 2, 4, and 5 consist of a reinforced concrete cap on precast concrete piling. Pier 3 consists of a solid wall supported by a spread footing on timber piles. This original structure was built in 1957.

Traffic is to be maintained on this structure until Stage I of the new structure is complete.  
No salvage.

**Bench Marks:**  
BM #5: Chiseled square on SW wingwall.  
Elev. 627.44

BM #6: RR spike in N face of pole approximately 40' west of east entrance to ADM.  
Elev. 645.28

\*All excavation for the new structure is along back of abutments as shown, ROW to ROW will not be paid for separately, and the cost of excavation, hauling excess material, and disposal of excess material, shall be included in the cost of Removal of Existing Structures. No additional compensation will be allowed.  
Estimated quantity = 800 cu yd.

**DESIGN SPECIFICATIONS**  
2018 AASHTO LRFD Bridge Design Specifications, 8th Edition with 2018 Interims

**DESIGN STRESSES**

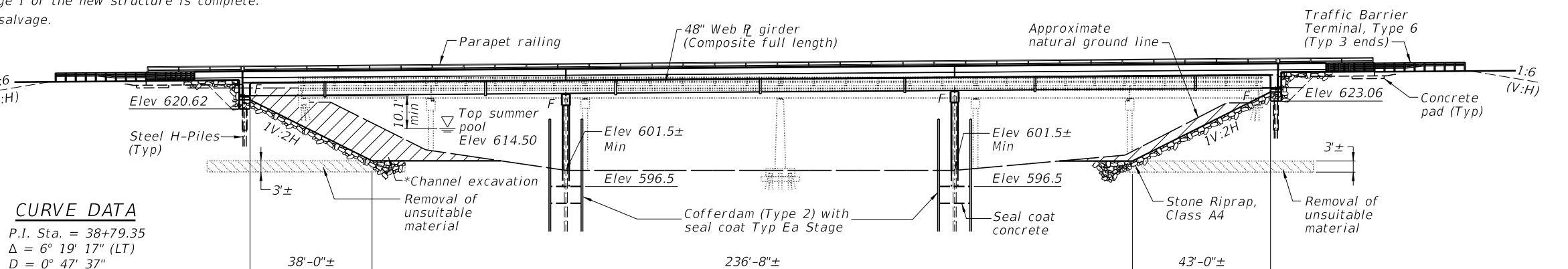
**FIELD UNITS**  
f'c = 3,500 psi  
f'c = 4,000 psi (Superstructure)  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50W)

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

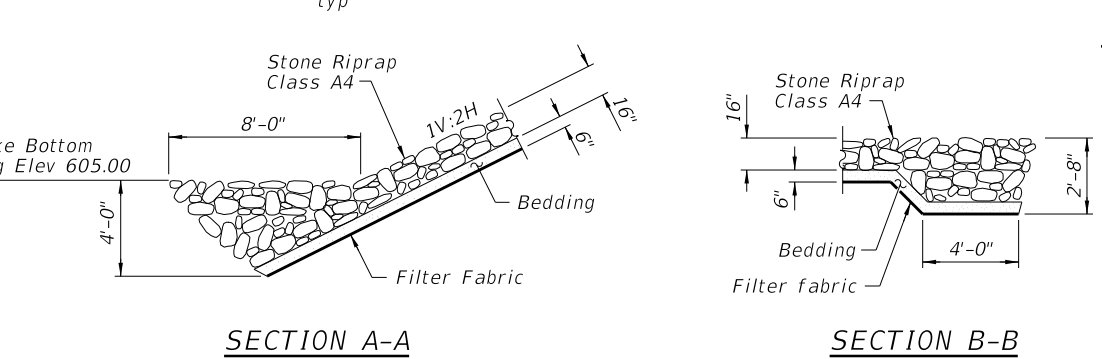
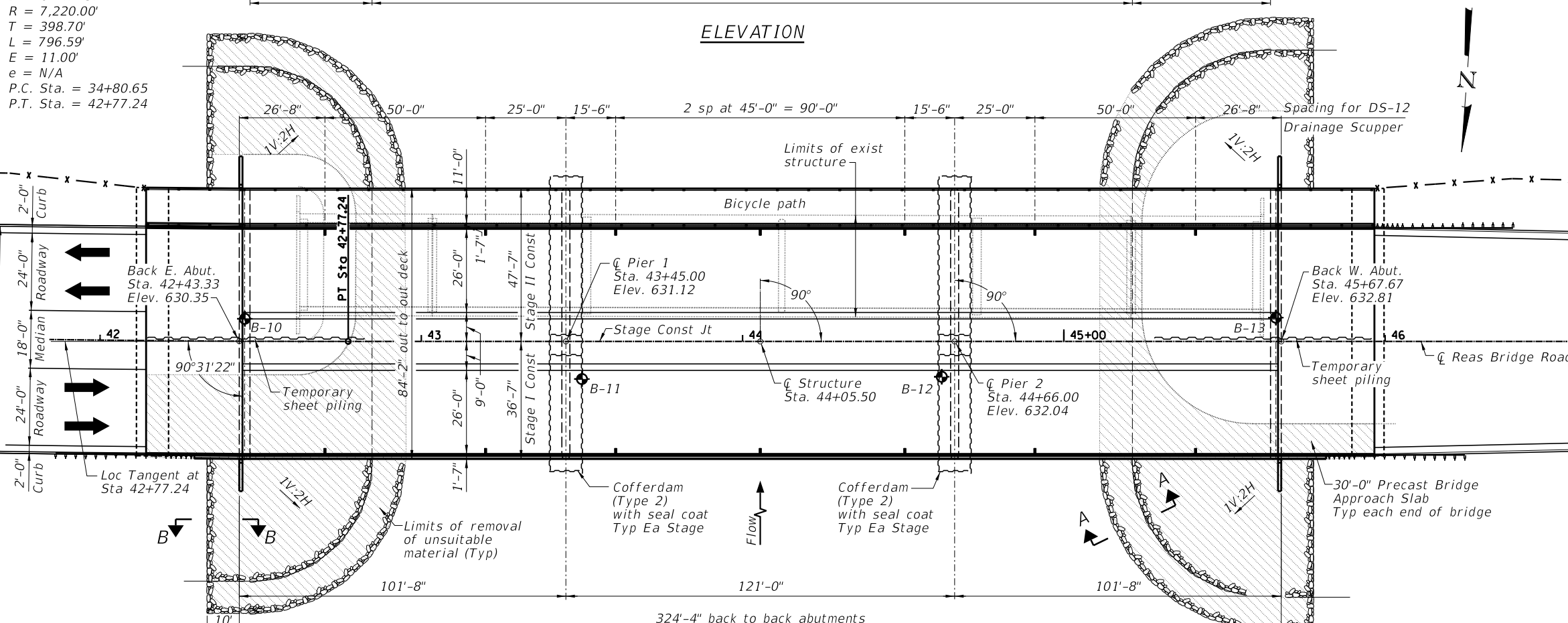
Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.152g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.274g  
Soil Site Class = D



**CURVE DATA**

P.I. Sta. = 38+79.35  
Δ = 6° 19' 17" (LT)  
D = 0° 47' 37"  
R = 7,220.00'  
T = 398.70'  
L = 796.59'  
E = 11.00'  
e = N/A  
P.C. Sta. = 34+80.65  
P.T. Sta. = 42+77.24

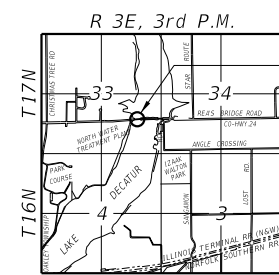
**ELEVATION**



**PLAN**

**DESIGN SCOUR ELEVATION TABLE**

| Event / Limit | Design Scour Elevations (ft.) |        |        |          | Item 113 |
|---------------|-------------------------------|--------|--------|----------|----------|
|               | E. Abut.                      | Pier 1 | Pier 2 | W. Abut. |          |
| Q100          | 620.6                         | 590.7  | 590.7  | 623.1    | 5        |
| Q200          | 620.6                         | 587.8  | 587.8  | 623.1    |          |
| Design        | 620.6                         | 590.7  | 590.7  | 623.1    |          |
| Check         | 620.6                         | 587.8  | 587.8  | 623.1    |          |

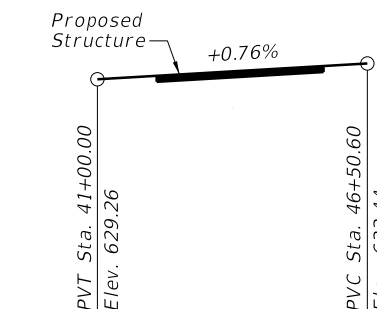


**LOCATION SKETCH**

REAS BRIDGE ROAD OVER  
LAKE DECATUR  
BUILT 20 BY  
MACON COUNTY  
SECTION 12-00251-00-BR  
STA 44+05.50  
STR. NO. 058-3408 LOADING HL-93

**NAME PLATE**

See Std. 515001



**PROFILE GRADE**  
(Along Centerline of Roadway)

**STRUCTURAL ENGINEER**  
JEREMY BUENING  
081-006696  
STATE OF ILLINOIS  
*Jeremy Buening*  
2/9/23  
Date  
License Expires 11/30/24

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

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184-001397

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 058-3408**  
SHEET NO. 1 OF 40 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 98        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

FILE NAME = i:\Municipalities\Macon County\6487 Reas Bridge Road Bridge Replacement\CADD\Structural\West\Reas Bridge.gpd

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Structural Data
- 3 Footing Layout
- 4 Stage Construction Details
- 5 Temporary Soil Retention System
- 6 Temporary Concrete Barrier for Stage Construction
- 7 Top of Deck Elevations
- 8 Top of Deck Elevations
- 9 Top of Deck Elevations
- 10 Top of Deck Elevations
- 11 Top of Deck Elevations
- 12 Top of East Approach Slab Elevations
- 13 Top of West Approach Slab Elevations
- 14 Superstructure
- 15 Superstructure Details
- 16 Superstructure Details
- 17 Superstructure Details
- 18 Diaphragm Details
- 19 Bridge Approach Slab Details
- 20 Bridge Approach Slab Details
- 21 Bridge Approach Slab Details
- 22 Bridge Approach Slab Details
- 23 Bridge Approach Slab Details
- 24 Bridge Approach Slab Details
- 25 Bicycle Railing
- 26 Drainage Scupper, DS-12
- 27 Framing Plan and Details
- 28 Framing Details
- 29 Framing Details
- 30 Moment Tables
- 31 Bearing Details
- 32 East Abutment
- 33 West Abutment
- 34 Abutment Details
- 35 Pier 1
- 36 Pier 2
- 37 Pier Details
- 38 HP Pile Details
- 39 Bar Splicer Assembly and Mechanical Splicer Details
- 40 Subsurface Data Profile

**GENERAL NOTES:**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas.  
Bolts 7/8" Ø in holes 1 1/16" Ø, unless otherwise noted.

Calculated weight of Structural Steel = 770,970 lb  
All structural steel shall be AASHTO M270 Grade 50W  
No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the CONTRACTOR elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the ENGINEER.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

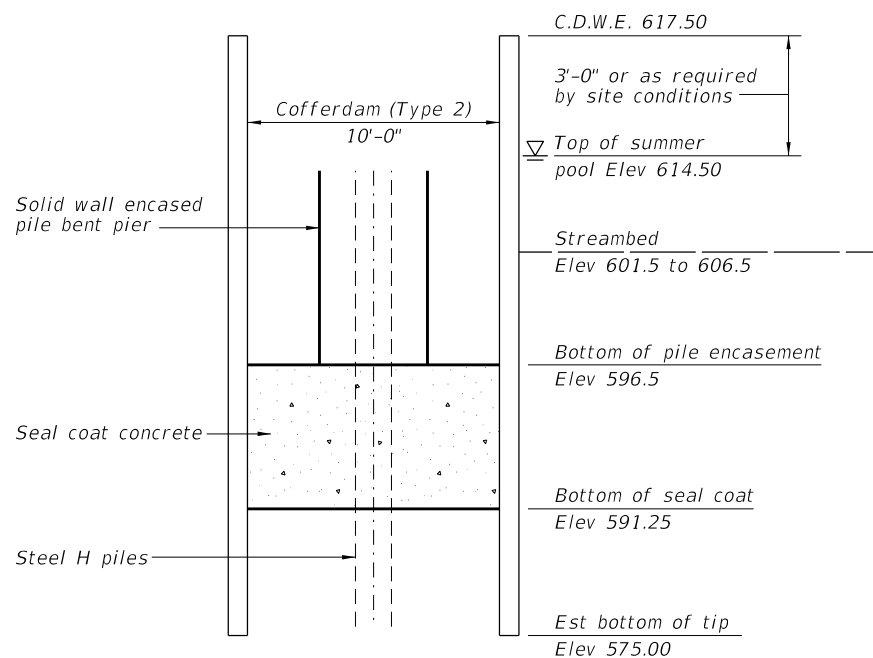
The CONTRACTOR shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the ENGINEER for approval with the cofferdam design.

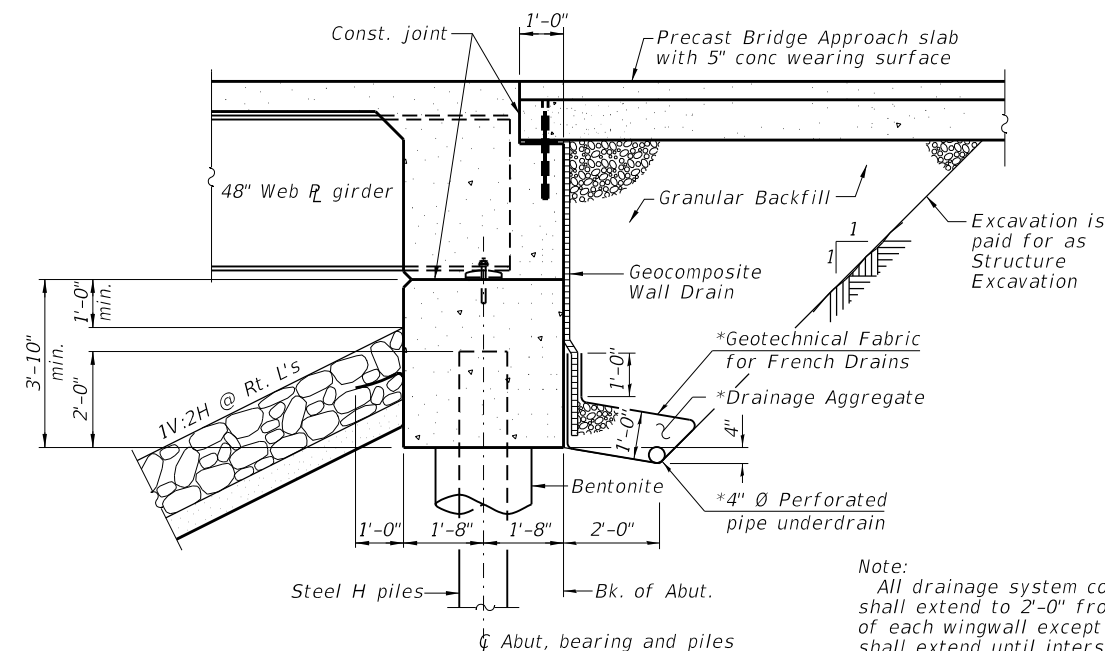
Slipforming of parapets is not allowed.

**TOTAL BILL OF MATERIAL**

| Item                                     | Unit    | Super   | Sub    | Total   |
|--|---------|---------|--------|---------|
| Removal of Existing Structures No. 2     | Each    | 1       | ---    | 1       |
| Structure Excavation                     | Cu. Yd. | ---     | 109    | 109     |
| Cofferdam Excavation                     | Cu. Yd. | ---     | 832    | 832     |
| Cofferdam (Type 2) (Location - 2)        | Each    | ---     | 1      | 1       |
| Cofferdam (Type 2) (Location - 3)        | Each    | ---     | 1      | 1       |
| Concrete Structures                      | Cu. Yd. | ---     | 554.4  | 554.4   |
| Concrete Superstructure                  | Cu. Yd. | 948.7   | ---    | 948.7   |
| Bridge Deck Grooving                     | Sq. Yd. | 2316    | ---    | 2316    |
| Seal Coat Concrete                       | Cu. Yd. | ---     | 356    | 356     |
| Protective Coat                          | Sq. Yd. | 3785    | ---    | 3785    |
| Furnishing and Erecting Structural Steel | L. Sum  | 0.5     | ---    | 0.5     |
| Stud Shear Connectors                    | Each    | 9570    | ---    | 9570    |
| Reinforcement Bars, Epoxy Coated         | Pound   | 242,260 | 47,730 | 289,990 |
| Bar Splicers                             | Each    | 1582    | 186    | 1768    |
| Bicycle Railing                          | Foot    | 378     | ---    | 378     |
| Parapet Railing                          | Foot    | 378     | ---    | 378     |
| Furnishing Steel Piles HP14x73           | Foot    | ---     | 3290   | 3290    |
| Driving Piles                            | Foot    | ---     | 3290   | 3290    |
| Test Pile Steel HP14x73                  | Each    | ---     | 4      | 4       |
| Name Plates                              | Each    | 1       | ---    | 1       |
| Preformed Joint Strip Seal               | Foot    | 167     | ---    | 167     |
| Anchor Bolts, 1"                         | Each    | ---     | 44     | 44      |
| Anchor Bolts, 1 1/4"                     | Each    | ---     | 44     | 44      |
| Temporary Soil Retention System          | Sq. Ft. | ---     | 1692   | 1692    |
| Geocomposite Wall Drain                  | Sq. Yd. | ---     | 175    | 175     |
| Concrete Wearing Surface, 5"             | Sq. Yd. | 558     | ---    | 558     |
| Precast Bridge Approach Slab             | Sq. Ft. | 4800    | ---    | 4800    |
| Granular Backfill for Structures         | Cu. Yd. | ---     | 313    | 313     |
| Drainage Scuppers, DS-12                 | Each    | 14      | ---    | 14      |
| Pipe Underdrains for Structures 4"       | Foot    | ---     | 242    | 242     |



**SEAL COAT SCHEMATIC**



**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

\*Included in the cost of Pipe Underdrains for Structures.

FILE NAME = \$FILEL\$

|                        |                     |           |
|------------------------|---------------------|-----------|
| USER NAME = \$USER\$   | DESIGNED <i>JMB</i> | REVISED - |
| PLOT TIME = \$TIME\$   | DRAWN <i>RLK</i>    | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED <i>BCG</i>  | REVISED - |
| PLOT DATE = \$DATE\$   | DATE                | REVISED - |

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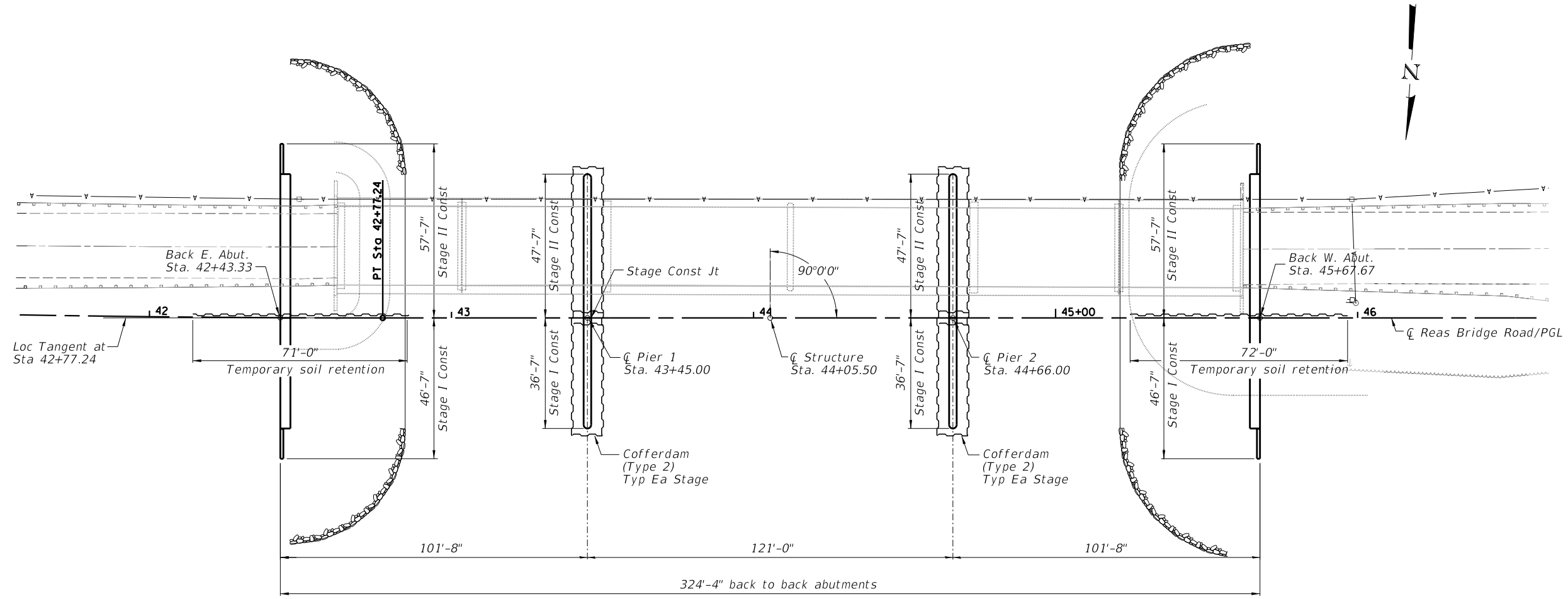
**GENERAL STRUCTURAL DATA**  
**STRUCTURE NO. 058-3408**

SHEET NO. 2 OF 40 SHEETS

|                           |                |        |              |           |
|---------------------------|----------------|--------|--------------|-----------|
| FAU RTE                   | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 7355                      | 12-00251-00-BR | MACON  | 196          | 99        |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT

FILE NAME = i:\municipalities\macon\county\6487 Reos Bridge Road Bridge Replacement\CADD\Structural\WestBridge\Footing.dgn



PLAN

|                            |              |           |
|----------------------------|--------------|-----------|
| USER NAME = jbuening       | DESIGNED JMB | REVISED - |
| PLOT TIME = 9:05:42 PM     | DRAWN RLK    | REVISED - |
| PLOT SCALE = 40.0000' / 1" | CHECKED BCG  | REVISED - |
| PLOT DATE = 1/25/2022      | DATE         | REVISED - |

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184-001397

**FOOTING LAYOUT**  
**STRUCTURE NO. 058-3408**

SHEET NO. 3 OF 40 SHEETS

| FAU RTE.                  | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 7355                      | 12-00251-00-BR | MACON  | 196          | 100       |
| <b>CONTRACT NO. 95912</b> |                |        |              |           |

ILLINOIS FED. AID PROJECT