

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 587 (IL 92)  
SECTION (140B)BRR  
BRIDGE REPAIR  
BUREAU COUNTY

C-93-085-24

| F.A.P<br>RTE. | SECTION    | COUNTY   | TOTAL<br>SHEETS    | SHEET<br>NO. |
|---------------|------------|----------|--------------------|--------------|
| 587           | (140B) BRR | BUREAU   | 37                 | 1            |
|               |            | ILLINOIS | CONTRACT NO. 66P34 |              |

D-93-048-24



FUNCTIONAL CLASSIFICATION  
OTHER PRINCIPAL ARTERIAL  
F.A.P ROUTE 587 (IL 92)  
2023 ADT = 750  
PV = 87% SU = 5% MU = 8%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 22, 2024  
*Trisha Thompson* REGIONAL ENGINEER  
December 6, 2024  
*Scott A. Elk* ENGINEER OF DESIGN AND ENVIRONMENT  
December 6, 2024  
*Joseph A. Regue* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

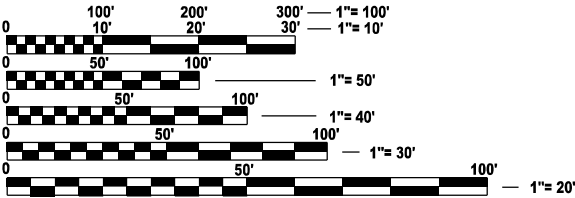
| DRAWINGS | INDEX                                   |
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STRUCTURE NO. 006-0101, IL 92  
OVER BRANCH OF MASTERS CREEK  
0.7 MI WEST OF VAN ORIN

BEGIN IMPROVEMENT  
STA. 620 + 39.92

END IMPROVEMENT  
STA. 630 + 23.71

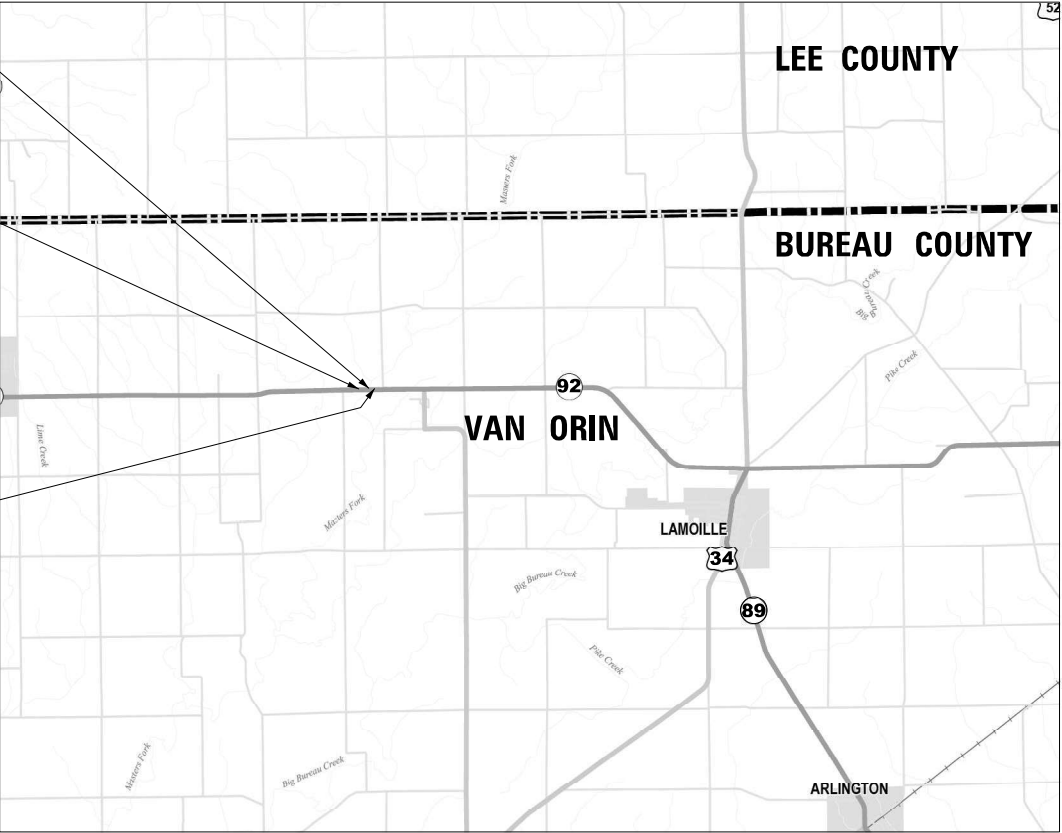
FOR LIST OF HIGHWAY STANDARDS,  
SEE SHEET NO. 2



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

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

PROJECT ENGINEER: JUNIOR SENAT  
UNIT CHIEF : RON WOODSHANK  
DISTRICT 3 NO. (815)434-8449  
CONTRACT NO. 66P34



GROSS LENGTH = 763.72 FT. = 0.1446 MILE  
NET LENGTH = 763.72 FT. = 0.1446 MILE

AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

DESIGN SECTION ENGINEER

JOSEPH A. REGIS 07/31/2024 11/30/2025  
062-047290 DATE EXPIRES  
SIGNATURE AND SEAL  
APPLY TO DRAWINGS: 01-13

AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

GENERAL NOTES

1.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
2.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS. MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.
3.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:  
HMA RESURFACING112 LBS/ SQ YD/ IN
4.

UNDER NO CIRCUMSTANCES SHOULD ANY CONSTRUCTION ACTIVITY TAKE PLACE WITHIN THE RIVER CHANNEL, RIVERBANKS, OR ANY ADJACENT WATER BODIES. THIS INCLUDES EXCAVATION, GRADING, OR ANY OTHER WORK THAT COULD DISTURB THE NATURAL HABITAT.
5.

THE CONTRACTOR SHALL AVOID DAMAGING THE EXISTING GUARDRAIL THAT IS TO REMAIN IN PLACE.
6.

NO ROADWAY PLANS ARE PROVIDED FOR STANDARD 420406. SEE THE SCHEDULE FOR IMPROVED SUBGRADE.
7.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENTS ARE:  
AMEREN  
FRONTIER  
METRO COMMUNICATIONS  
NICOR

HIGHWAY STANDARDS

- 000001-08STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02AREAS OF REINFORCEMENT BARS
- 001006DECIMAL OF AN INCH AND OF A FOOT
- 420406PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- 482006-03HMA SHOULDER ADJACENT TO RIGID PAVEMENT
- 630001-13STEEL PLATE BEAM GUARDRAIL
- 631031-18TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-02DELINEATORS
- 701001-02OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701201-05LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701306-04LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03LANE CLOSURE 2L,2W MOVING OPERATIONS-DAY ONLY
- 701321-19LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04LANE CLOSURE 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45MPH
- 701901-10TRAFFIC CONTROL DEVICES
- 704001-08TEMPORARY CONCRETE BARRIER
- 780001-05TYPICAL PAVEMENT MARKINGS
- 782006-01GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 3 STANDARDS

- 780-8PAVEMENT MARKING - TWO LANE ROADWAY

COMMITMENTS

THE ENGINEER SHALL RECORD THE DECK SLAB REPAIR LOCATION, PATCH SIZE AND QUANTITIES ON THE DECK SLAB REPAIR "AS BUILT" PLAN DETAILS. WHEN RECORDED, THE ENGINEER SHALL FORWARD THE DECK SLAB REPAIR "AS BUILT" PLAN OF DETAILS TO THE BRIDGE OFFICE IN A TIMELY MANNER. BRIDGE OFFICE CONTACT PERSON IS ADRIAN HALLOWAY. PHONE (217) 524-8624. E-MAIL: adrian.halloway@illinois.gov  
THE ENGINEER SHALL NOTIFY THE DEPARTMENTS DESIGN AND PLANNING SECTION WHEN THE "AS BUILT" DECK SLAB REPAIR PLAN HAS BEEN TO THE BRIDGE OFFICE. CONTACT PERSON IS JUNIOR SENAT. PHONE (815) 434-8449  
E-MAIL: junior.senat@illinois.gov

| HOT-MIX ASPHALT REQUIREMENTS        |                                |                   |                                                  |                   |
|-------------------------------------|--------------------------------|-------------------|--------------------------------------------------|-------------------|
| LOCATIONS                           | EAST AND WEST OF S.S. 006-0101 |                   | AT BRIDGE APPROACH SLABS FOR S.N. 006-0101       |                   |
|                                     | 9" HMA SHOULDERS               |                   | PAVEMEN CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |                   |
| MIXTURE USE                         | HMA BINDER                     | HMA SURFACE       | HMA BINDER                                       | HMA SURFACE       |
|                                     | BOTTOM LIFTS                   | TOP LIFT          | BOTTOM LIFTS                                     | TOP LIFTS         |
| BINDER GAPE (PG)                    | PG 64-22                       | PG 64-22          | PG 64-22                                         | PG 64-22          |
| DESIGN AIR VOIDS                    | 4.0% @ N50                     | 4.0% @ N50        | 4.0% @ N50                                       | 4.0% @ N50        |
| MIXTURE COMPOSITION                 | IL 19.0                        | IL 9.5            | IL 19.0                                          | IL 9.5            |
| FRICTION AGGREGATE                  | N/A                            | MIXTURE "C"       | N/A                                              | MIXTURE "D"       |
| MIXTURE WEIGHT                      | 112.0 LB/SQ YD/IN              | 112.0 LB/SQ YD/IN | 112.0 LB/SQ YD/IN                                | 112.0 LB/SQ YD/IN |
| QUALITY MANAGEMENT PROGRAM          | QCQA                           | QCQA              | QCQA                                             | QCQA              |
| SUBLOT SIZE                         | N/A                            | N/A               | N/A                                              | N/A               |
| DENSITY TEST METHOD                 | CORE/NUCLEAR                   | CORE/NUCLEAR      | CORE/NUCLEAR                                     | CORE/NUCLEAR      |
| MATERIAL TRANSFER DEVICE (REQUIRED) | NO                             | NO                | NO                                               | NO                |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

SUPERVISING CONTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONTRUCTION:

INSPECTORS:

MODEL: Index Of sheet [Sheet]  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Sheet\0366P34-sht-index.dgn



|                                |                    |           |
|--------------------------------|--------------------|-----------|
| USER NAME = sgurmani           | DESIGNED - MAA,SAG | REVISED - |
|                                | DRAWN - MAA,SAG    | REVISED - |
| PLOT SCALE = 0.16666633" / in. | CHECKED - JAR      | REVISED - |
| PLOT DATE = 10/11/2024         | DATE - 9/06/2024   | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTE, HIGHWAY STANDARDS  
COMMITMENTS, AND HOT-MIX ASPHALT TABLE

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

| F.A. RTE. | SECTION   | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|-----------|-----------|--------------------|------------------|-----------|
| 587       | (140B)BRR | BUREAU             | 37               | 2         |
|           |           | CONTRACT NO. 66934 |                  |           |
|           |           | ILLINOIS           | FED. AID PROJECT |           |

SUMMARY OF QUANTITIES

CONSTR. CODE  
100% STATE  
BRIDGE  
0047  
S.N. 006-0101

| Code No. | Item                                              | Unit  | Total Quantity |       |
|----------|---------------------------------------------------|-------|----------------|-------|
| 20200600 | EXCAVATING AND GRADING EXISTING SHOULDER          | UNIT  | 5              | 5     |
|          |                                                   |       |                |       |
| 35101400 | AGGREGATE BASE COURSE, TYPE B                     | TON   | 12             | 12    |
|          |                                                   |       |                |       |
| 40800029 | BITUMINOUS MATERIALS (TACK COAT)                  | LBS   | 33             | 33    |
|          |                                                   |       |                |       |
| 42000070 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB | SQ YD | 72             | 72    |
|          |                                                   |       |                |       |
| 44000100 | PAVEMENT REMOVAL                                  | SQ YD | 58             | 58    |
|          |                                                   |       |                |       |
| 44004250 | PAVED SHOULDER REMOVAL                            | SQ YD | 14             | 14    |
|          |                                                   |       |                |       |
| 48203033 | HOT-MIX ASPHALT SHOULDERS, 9"                     | SQ YD | 160            | 160   |
|          |                                                   |       |                |       |
| 50102400 | CONCRETE REMOVAL                                  | CU YD | 9.8            | 9.8   |
|          |                                                   |       |                |       |
| 50300225 | CONCRETE STRUCTURES                               | CU YD | 14.8           | 14.8  |
|          |                                                   |       |                |       |
| 50300255 | CONCRETE SUPERSTRUCTURE                           | CU YD | 9.8            | 9.8   |
|          |                                                   |       |                |       |
| 50300300 | PROTECTIVE COAT                                   | SQ YD | 190            | 190   |
|          |                                                   |       |                |       |
| 50301350 | CONCRETE SUPERSTRUCTURE (APPROACH SLAB)           | CU YD | 66.7           | 66.7  |
|          |                                                   |       |                |       |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED                  | POUND | 27650          | 27650 |
|          |                                                   |       |                |       |

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|                            |                     |           |
|----------------------------|---------------------|-----------|
| USER NAME = sgurmani       | DESIGNED - MAA, SAG | REVISED - |
|                            | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 40,000' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024      | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: NONE    SHEET 1    OF 2    SHEETS    STA.    TO STA.

| F.A.P. RTE.                  | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|-----------|--------|--------------|-----------|
| 587                          | (140B)BRR | BUREAU | 37           | 3         |
| CONTRACT NO. 66P34           |           |        |              |           |
| ILLINOIS    FED. AID PROJECT |           |        |              |           |

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|            |                 |
|------------|-----------------|
| USER NAME  | = sgurmani      |
| PLOT SCALE | = 40,000' / in. |
| PLOT DATE  | = 10/8/2024     |

|          |   |          |
|----------|---|----------|
| DESIGNED | - | MAA, SAG |
| DRAWN    | - | MAA, SAG |
| CHECKED  | - | JAR      |
| DATE     | - | 9/6/2024 |

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: NONE      SHEET 2      OF 2      SHEETS      STA.      TO STA.

|                    |           |          |                  |           |
|--------------------|-----------|----------|------------------|-----------|
| F.A.P. RTE.        | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 587                | (140B)BRR | BUREAU   | 37               | 4         |
| CONTRACT NO. 66P34 |           |          |                  |           |
|                    |           | ILLINOIS | FED. AID PROJECT |           |



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AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                            |                     |           |
|----------------------------|---------------------|-----------|
| USER NAME = sgurmani       | DESIGNED - MAA, SAG | REVISED - |
|                            | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 40.000' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024      | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: NONE    SHEET 2    OF 2    SHEETS    STA.    TO STA.

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 587                       | (140B)BRR | BUREAU | 37           | 5         |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

| SUMMARY OF QUANTITIES |                                                                     |       |                | CONSTR. CODE<br>100% STATE<br>BRIDGE<br>0047<br>S.N. 006-0101 |
|-----------------------|---------------------------------------------------------------------|-------|----------------|---------------------------------------------------------------|
| Code No.              | Item                                                                | Unit  | Total Quantity |                                                               |
| 70600352              | IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW) TEST LEVEL 3 | EACH  | 2              | 2                                                             |
|                       |                                                                     |       |                |                                                               |
| * 78009004            | MODIFIED URETHANE PAVEMENT MARKING- LINE 4",FOOT                    | FOOT  | 3055           | 3055                                                          |
|                       |                                                                     |       |                |                                                               |
| * 78009006            | MODIFIED URETHANE PAVEMENT MARKING- LINE 6" ,FOOT                   | FOOT  | 382            | 382                                                           |
|                       |                                                                     |       |                |                                                               |
| * 78200006            | GUARDRAIL REFLECTORS, TYPE B                                        | EACH  | 34             | 34                                                            |
|                       |                                                                     |       |                |                                                               |
| * 78200011            | BARRIER WALL REFLECTORS, TYPE C                                     | EACH  | 22             | 22                                                            |
|                       |                                                                     |       |                |                                                               |
| 78300202              | PAVEMENT MARKING REMOVAL - WATER BLASTING                           | SQ FT | 907            | 907                                                           |
|                       |                                                                     |       |                |                                                               |
| X6350204              | LINEAR DELINEATOR PANELS, 4 INCH                                    | EACH  | 2              | 2                                                             |
|                       |                                                                     |       |                |                                                               |
| X6350206              | LINEAR DELINEATOR PANELS, 6 INCH                                    | EACH  | 6              | 6                                                             |
|                       |                                                                     |       |                |                                                               |
| X7010118              | TEMPORARY RUMBLE STRIPS (SPECIAL)                                   | EACH  | 12             | 12                                                            |
|                       |                                                                     |       |                |                                                               |
| X7200201              | WIDTH RESTRICTION SIGNING                                           | L SUM | 1              | 1                                                             |
|                       |                                                                     |       |                |                                                               |
| Z0004552              | APPROACH SLAB REMOVAL                                               | SQ YD | 107            | 107                                                           |
|                       |                                                                     |       |                |                                                               |
| Z0005900              | BRIDGE CURB OR HUBGUARD REPAIR                                      | FOOT  | 15             | 15                                                            |
|                       |                                                                     |       |                |                                                               |
| Z0016002              | DECK SLAB REPAIR (FULL DEPTH, TYPE II)                              | SQ YD | 2              | 2                                                             |
|                       |                                                                     |       |                |                                                               |
| Z0016200              | DECK SLAB REPAIR (PARTIAL)                                          | SQ YD | 3              | 3                                                             |
|                       |                                                                     |       |                |                                                               |

\*= SPECIALTY ITEM

## SUMMARY OF QUANTITIES

|               |
|---------------|
| CONSTR. CODE  |
| 100% STATE    |
| BRIDGE        |
| 0047          |
| S.N. 006-0101 |

[illegible]

| TEMPORARY CONCRETE BARRIER SCHEDULE |                            |                                     |                                                                      |                                                                     |
|-------------------------------------|----------------------------|-------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|
| STATION TO STATION                  | TEMPORARY CONCRETE BARRIER | RELOCATE TEMPORARY CONCRETE BARRIER | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 3 | IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW) TEST LEVEL 3 |
|                                     | FOOT                       | FOOT                                | EACH                                                                 | EACH                                                                |
|                                     |                            |                                     |                                                                      |                                                                     |
| STAGE I                             | 237.5                      |                                     | 2                                                                    |                                                                     |
|                                     |                            |                                     |                                                                      |                                                                     |
| STAGE II                            |                            | 237.5                               |                                                                      | 2                                                                   |
|                                     |                            |                                     |                                                                      |                                                                     |
| TOTALS                              | 237.5                      | 237.5                               | 2                                                                    | 2                                                                   |

| PAVEMENT MARKING SCHEDULE |                             |                                     |                                            |                                            |                                         |
|---------------------------|-----------------------------|-------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------|
| LOCATION                  |                             |                                     |                                            |                                            |                                         |
| STATION TO STATION        | SHORT TERM PAVEMENT MARKING | SHORT TERM PAVEMENT MARKING REMOVAL | MODIFIED URETHANE PAVEMENT MARKING LINE 4" | MODIFIED URETHANE PAVEMENT MARKING LINE 6" | PAVEMENT MARKING REMOVAL WATER-BLASTING |
|                           |                             |                                     |                                            |                                            |                                         |
|                           | FOOT                        | SQ FT                               | FOOT                                       |                                            | SQ FT                                   |
|                           |                             |                                     |                                            |                                            |                                         |
| STAGE- I                  | 100                         | 33                                  |                                            |                                            | 454                                     |
|                           |                             |                                     |                                            |                                            |                                         |
| STAGE- II                 | 100                         | 33                                  |                                            |                                            | 453                                     |
|                           |                             |                                     |                                            |                                            |                                         |
| FIRST APPLICATION         |                             |                                     | 1528                                       | 191                                        |                                         |
| SECOND APPLICATION        |                             |                                     | 1528                                       | 191                                        |                                         |
|                           |                             |                                     |                                            |                                            |                                         |
| FINAL                     |                             |                                     | 3055                                       | 382                                        |                                         |
|                           |                             |                                     |                                            |                                            |                                         |
| TOTALS                    | 200                         | 66                                  | 3055                                       | 382                                        | 907                                     |

| SHOULDER SCHEDULE  |                                          |                              |
|--------------------|------------------------------------------|------------------------------|
| LOCATION           |                                          |                              |
| STATION TO STATION | EXCAVATING AND GRADING EXISTING SHOULDER | HOT-MIX ASPHALT SHOULDERS,9" |
|                    | UNIT                                     | SQ YD                        |
|                    |                                          |                              |
| PRE-STAGE          | 5                                        | 160                          |
|                    |                                          |                              |
| TOTALS             | 5                                        | 160                          |

| LINEAR DELINEATOR PANEL SCHEDULE |      |           |                              |                              |
|----------------------------------|------|-----------|------------------------------|------------------------------|
| LOCATION                         |      |           |                              |                              |
| STATION TO STATION               | SIDE | STRUCTURE | LINEAR DELINEATOR PANELS, 4" | LINEAR DELINEATOR PANELS, 6" |
|                                  |      | EACH      | EACH                         | EACH                         |
|                                  |      |           |                              |                              |
| 626+33.00                        | RT   | 006-0101  |                              | 1                            |
| 626+85.39                        | RT   | 006-0101  |                              | 1                            |
| 626+32.99                        | LT   | 006-0101  |                              | 1                            |
| 626+85.28                        | LT   | 006-0101  |                              | 1                            |
| ALLOWANCE                        |      |           | 2                            | 2                            |
|                                  |      |           |                              |                              |
| TOTALS                           |      |           | 2                            | 6                            |

MODEL: Default  
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AMES Engineering, Inc.  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60516

|                            |                     |           |
|----------------------------|---------------------|-----------|
| USER NAME = sgurmani       | DESIGNED - MAA, SAG | REVISED - |
|                            | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 40,000' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024      | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: NONE    SHEET 1    OF 1    SHEETS    STA.    TO STA.

|                    |           |          |                  |           |
|--------------------|-----------|----------|------------------|-----------|
| F.A.P. RTE.        | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 587                | (140B)BRR | BUREAU   | 37               | 7         |
| CONTRACT NO. 66P34 |           |          |                  |           |
|                    |           | ILLINOIS | FED. AID PROJECT |           |

| TEMPORARY RUMBLE STRIPS |                         |
|-------------------------|-------------------------|
| LOCATION                | TEMPORARY RUMBLE STRIPS |
|                         | EACH                    |
| STAGE - I               | 6                       |
|                         |                         |
| STAGE - II              | 6                       |
|                         |                         |
| TOTALS                  | 12                      |

| BARRIER WALL REFLECTOR, TYPE C |       |            |
|--------------------------------|-------|------------|
| LOCATION                       |       |            |
| STATION TO STATION             | STAGE | REFLECTORS |
|                                |       | EACH       |
|                                |       |            |
| 625+55.33 TO 627+65.79         | MOT 1 | 11         |
| 625+55.31 TO 627+65.77         | MOT 2 | 11         |
|                                |       |            |
| TOTALS                         |       | 22         |

| PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |       |                                                   |
|---------------------------------------------------|-------|---------------------------------------------------|
| LOCATION                                          |       |                                                   |
| STATION TO STATION                                | STAGE | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |
|                                                   |       | SQ YD                                             |
|                                                   |       |                                                   |
| 626+00.78 TO 626+10.78                            | 1     | 18.89                                             |
| 627+10.30 TO 627+20.30                            | 1     | 18.89                                             |
|                                                   |       |                                                   |
| 626+00.78 TO 626+10.78                            | 2     | 16.67                                             |
| 627+10.30 TO 627+20.30                            | 2     | 16.67                                             |
|                                                   |       |                                                   |
| TOTALS                                            |       | 71.12                                             |

| GUARDRAIL BARRIER REFLECTOR, TYPE B |            |
|-------------------------------------|------------|
| LOCATION                            |            |
| STATION TO STATION                  | REFLECTORS |
|                                     | EACH       |
| ALLOWANCE                           |            |
| 624+10.97 TO 626+30.33              | 10         |
| 626+90.79 TO 628+32.84              | 7          |
| 624+90.32 TO 626+30.32              | 7          |
| 626+90.78 TO 629+04.97              | 10         |
|                                     |            |
| TOTALS                              | 34         |

| AGGREGATE BASE COURSE, TYPE B |       |                             |
|-------------------------------|-------|-----------------------------|
| LOCATION                      |       |                             |
| STATION TO STATION            | STAGE | AGGREGATE SHOULDERS, TYPE B |
|                               |       | TON                         |
|                               |       |                             |
| 626+00.78 TO 626+10.78        | 1     | 3.06                        |
| 627+10.30 TO 627+20.30        | 1     | 3.06                        |
|                               |       |                             |
| 626+00.78 TO 626+10.78        | 2     | 2.70                        |
| 627+10.30 TO 627+20.30        | 2     | 2.70                        |
|                               |       |                             |
| TOTALS                        |       | 12                          |

| BITUMINOUS MATERIALS (TACK COAT) |       |                                  |
|----------------------------------|-------|----------------------------------|
| LOCATION                         |       |                                  |
| STATION TO STATION               | STAGE | BITUMINOUS MATERIALS (TACK COAT) |
|                                  |       | LBS                              |
|                                  |       |                                  |
| 626+00.78 TO 626+10.78           | 1     | 8.5                              |
| 627+10.30 TO 627+20.30           | 1     | 8.5                              |
|                                  |       |                                  |
| 626+00.78 TO 626+10.78           | 2     | 7.5                              |
| 627+10.30 TO 627+20.30           | 2     | 7.5                              |
|                                  |       |                                  |
| TOTALS                           |       | 32                               |

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\1084-Phase II-Border.dgn



|                            |                     |           |
|----------------------------|---------------------|-----------|
| USER NAME = sgurmani       | DESIGNED - MAA, SAG | REVISED - |
|                            | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 40,000' / In. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024      | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: NONE    SHEET 1    OF 1    SHEETS    STA.    TO STA.

| F.A.P. RTE.        | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 587                | (140B)BRR | BUREAU   | 37               | 8         |
| CONTRACT NO. 66P34 |           |          |                  |           |
|                    |           | ILLINOIS | FED. AID PROJECT |           |

| PAVEMENT REMOVAL       |       |                  |
|------------------------|-------|------------------|
| LOCATION               |       |                  |
| STATION TO STATION     | STAGE | PAVEMENT REMOVAL |
|                        |       | SQ YD            |
|                        |       |                  |
| 626+00.78 TO 626+10.78 | 1     | 15.56            |
| 627+10.30 TO 627+20.30 | 1     | 15.56            |
|                        |       |                  |
| 626+00.78 TO 626+10.78 | 2     | 13.33            |
| 627+10.30 TO 627+20.30 | 2     | 13.33            |
|                        |       |                  |
| TOTALS                 |       | 57.78            |

| PAVED SHOULDER REMOVAL |       |                        |
|------------------------|-------|------------------------|
| LOCATION               |       |                        |
| STATION TO STATION     | STAGE | PAVED SHOULDER REMOVAL |
|                        |       | SQ YD                  |
|                        |       |                        |
| 626+00.78 TO 626+10.78 | 1     | 3.34                   |
| 627+10.30 TO 627+20.30 | 1     | 3.34                   |
|                        |       |                        |
| 626+00.78 TO 626+10.78 | 2     | 3.34                   |
| 627+10.30 TO 627+20.30 | 2     | 3.34                   |
|                        |       |                        |
| TOTALS                 |       | 13.36                  |

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\66P34-Border.dgn



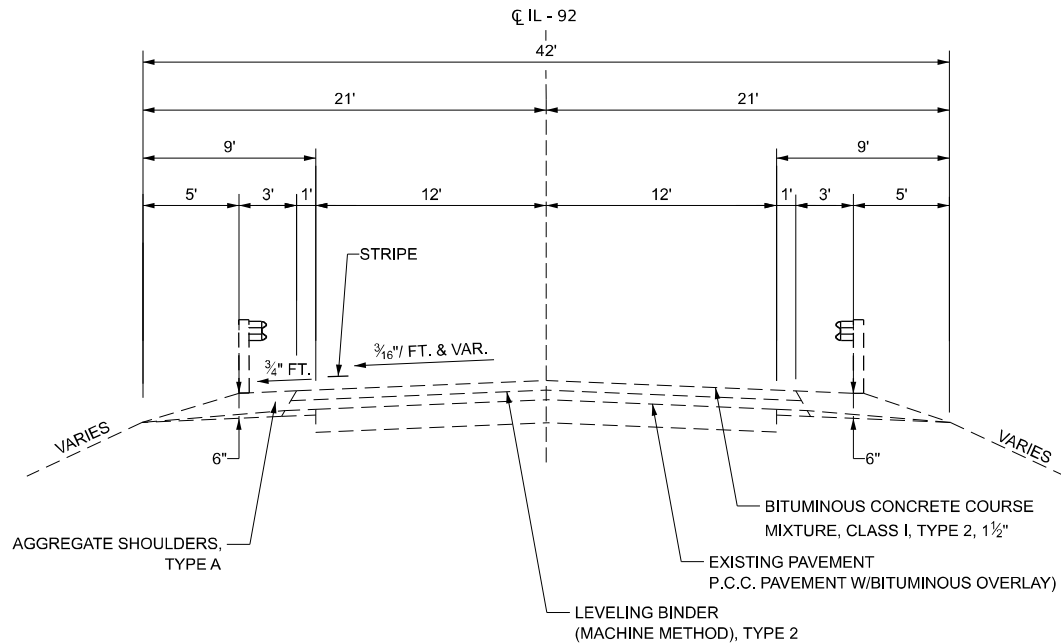
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|----------------------------|---------------------|-----------|
| USER NAME = sgurmani       | DESIGNED - MAA, SAG | REVISED - |
|                            | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 40,000' / In. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024      | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
IL-92 OVER BRANCH OF MASTERS CREEK

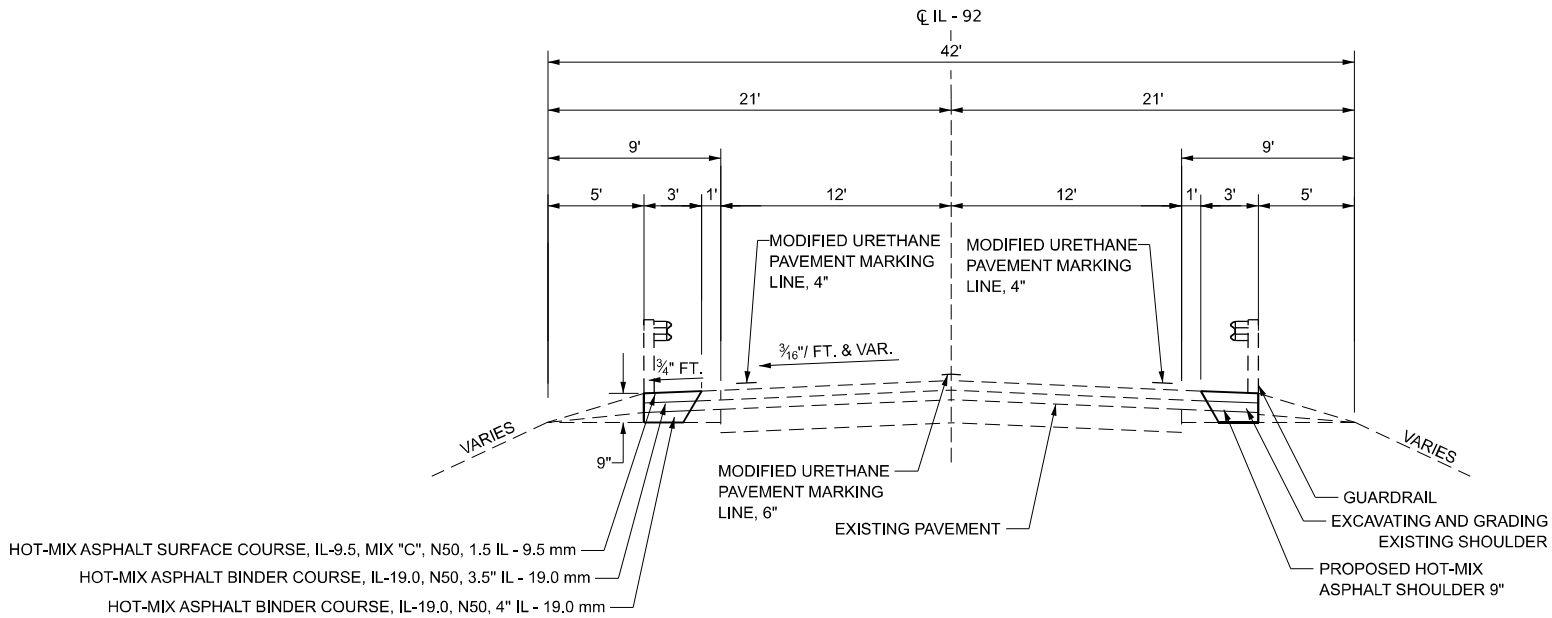
SCALE: NONE    SHEET 1    OF   1    SHEETS    STA.    TO STA.

| F.A.P. RTE.        | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|--------------------|-----------|----------|------------------|-----------|
| 587                | (140B)BRR | BUREAU   | 37               | 9         |
| CONTRACT NO. 66P34 |           |          |                  |           |
|                    |           | ILLINOIS | FED. AID PROJECT |           |



**EXISTING TYPICAL SECTION**

NOT TO SCALE  
620+39.32 TO 630+23.71  
BRIDGE OMISSION 626+13.78 TO 627+07.30



**PROPOSED TYPICAL SECTION**

NOT TO SCALE  
620+39.32 TO 630+23.71  
BRIDGE OMISSION 626+13.78 TO 627+07.30

**NOTE:**

- EXCAVATION AND GRADING SHOULDER AND PROPOSED HOT-MIX ASPHALT SHOULDERS  
624+94.43 TO 626+13.78  
627+07.30 TO 628+27.23

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\66P34-Border.dgn



|                                 |                     |           |
|---------------------------------|---------------------|-----------|
| USER NAME = sguarani            | DESIGNED - MAA, SAG | REVISED - |
|                                 | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 19.99996000' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024           | DATE - 9/6/2024     | REVISED - |

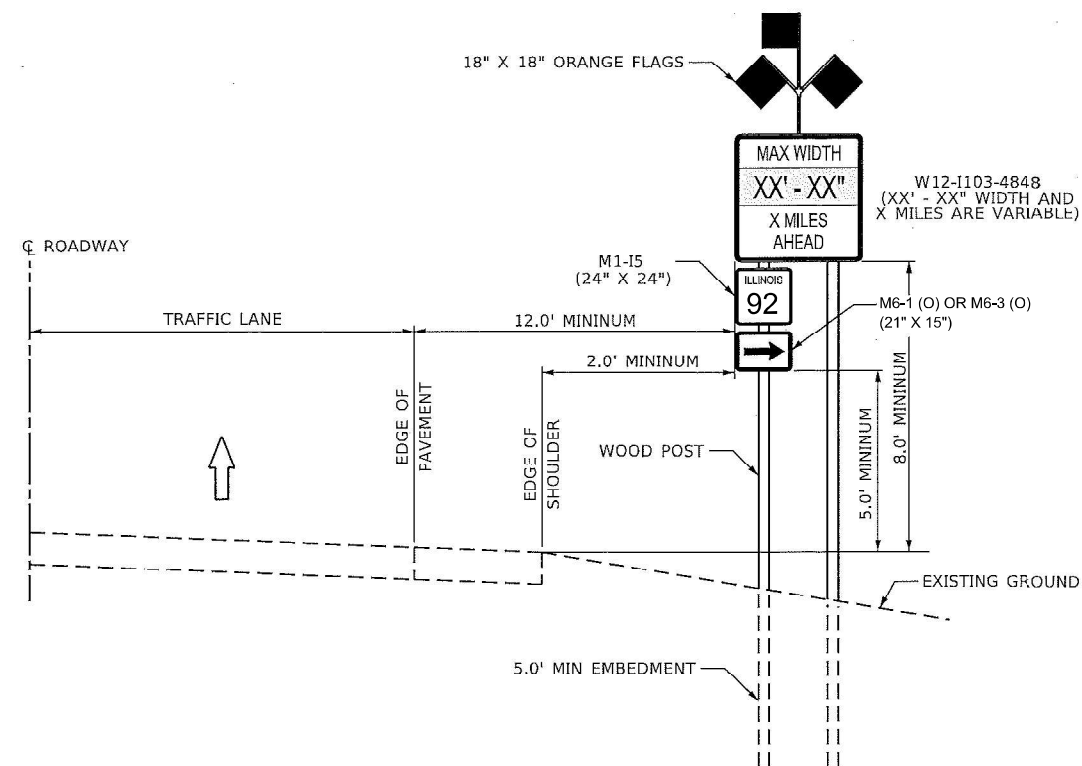
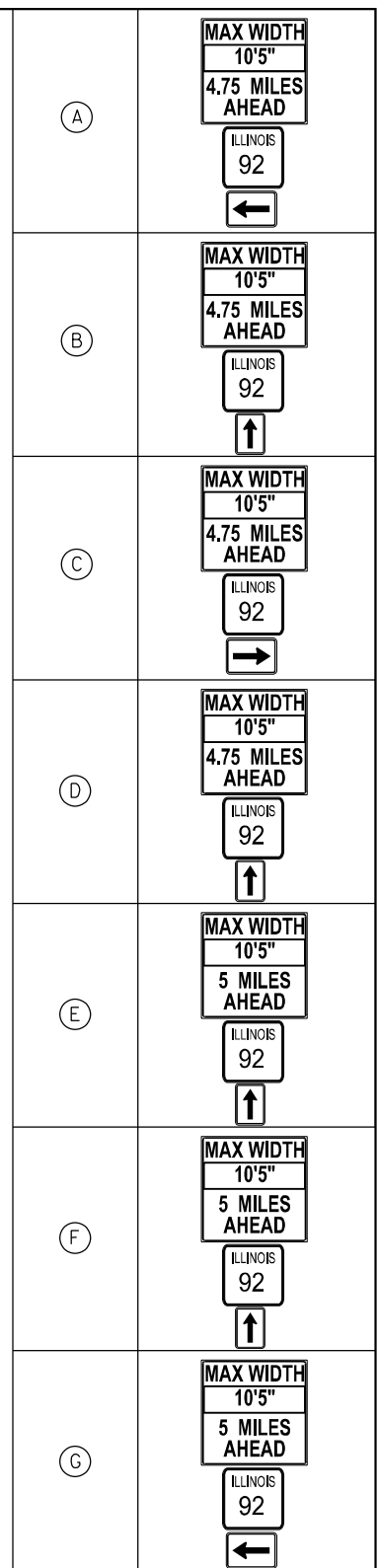
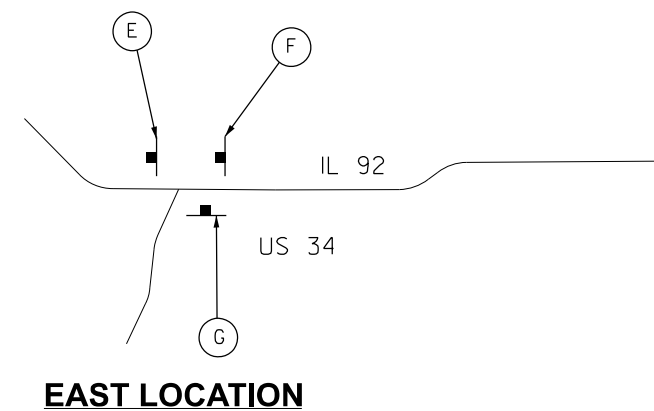
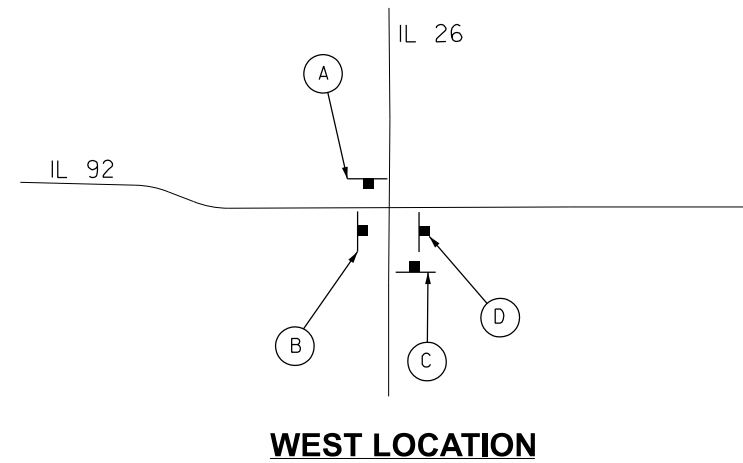
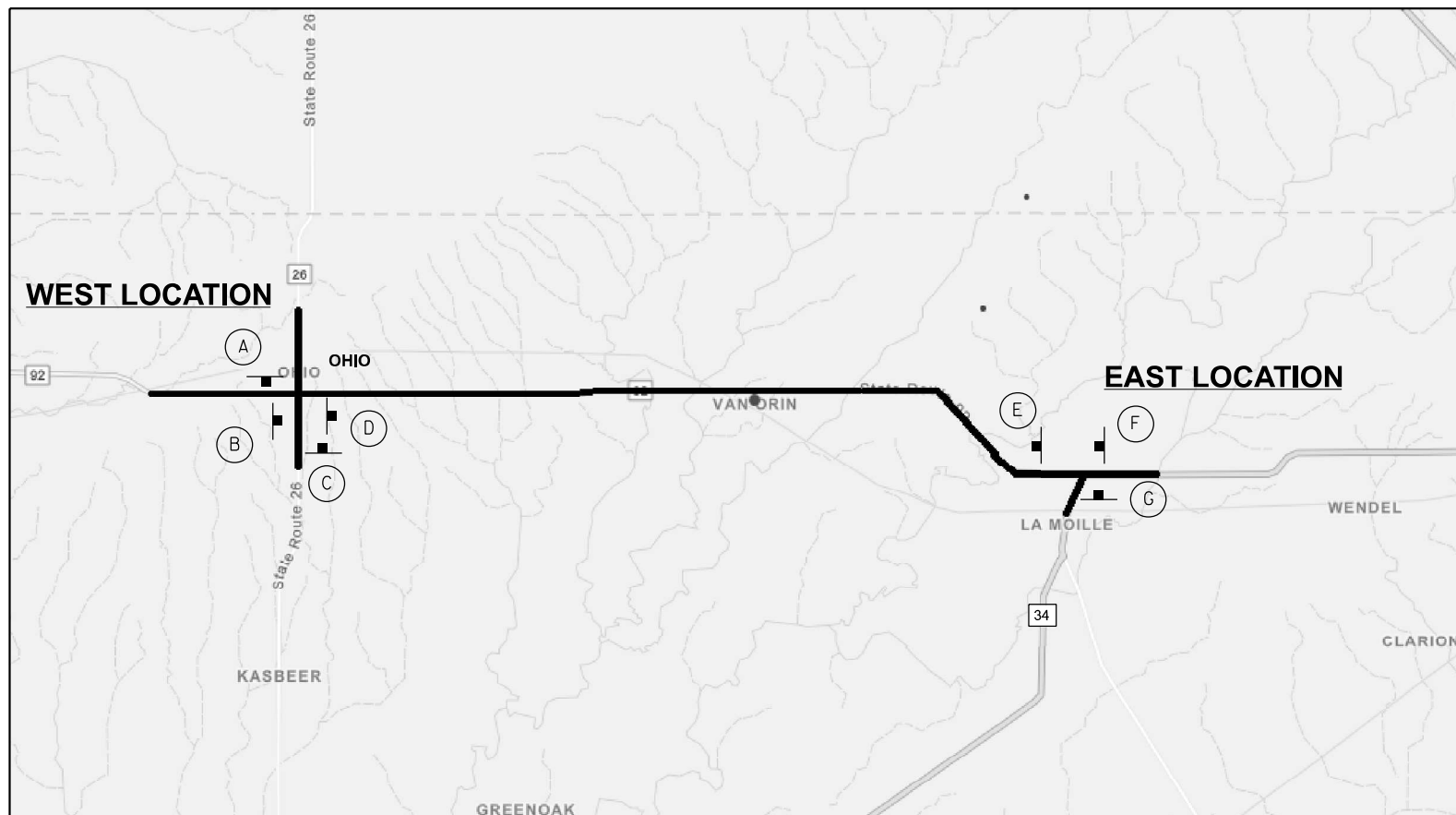
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**EXISTING AND PROPOSED  
TYPICAL SECTION**

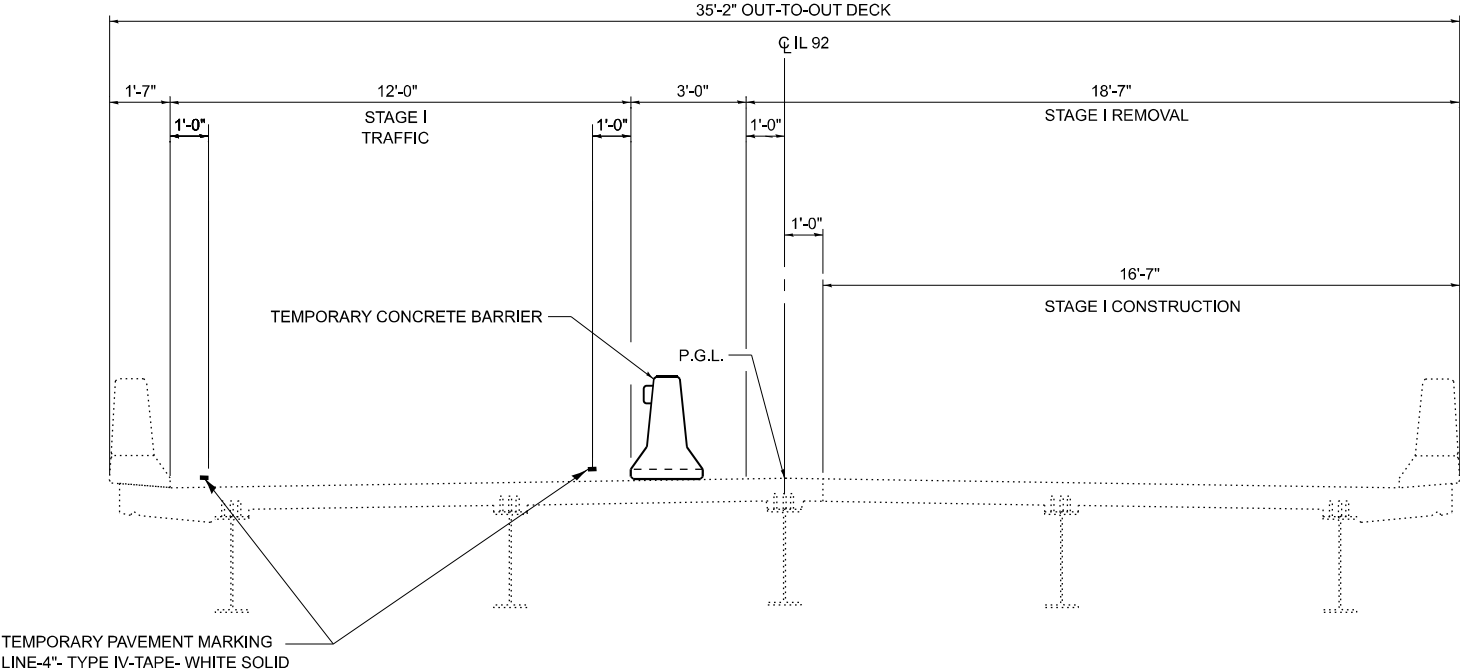
SCALE: NONE SHEET 1 OF ### SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 10        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

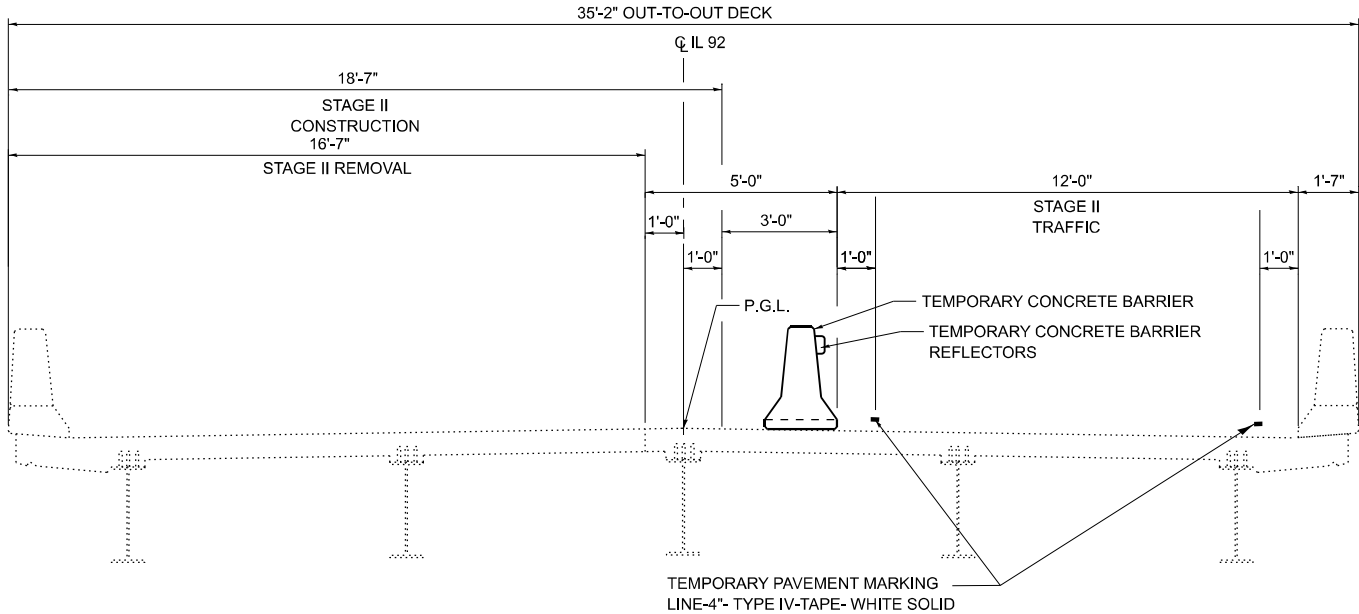




## WIDTH RESTRICTION SIGN CONVENTIONAL ROADWAYS



**STAGE I CONSTRUCTION**  
(LOOKING)



**STAGE II CONSTRUCTION**  
(LOOKING)

**LEGEND**

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\1084-Phase II-Border.dgn



|                                |                     |           |
|--------------------------------|---------------------|-----------|
| USER NAME = sguarani           | DESIGNED - MAA, SAG | REVISED - |
|                                | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024          | DATE - 9/6/2024     | REVISED - |

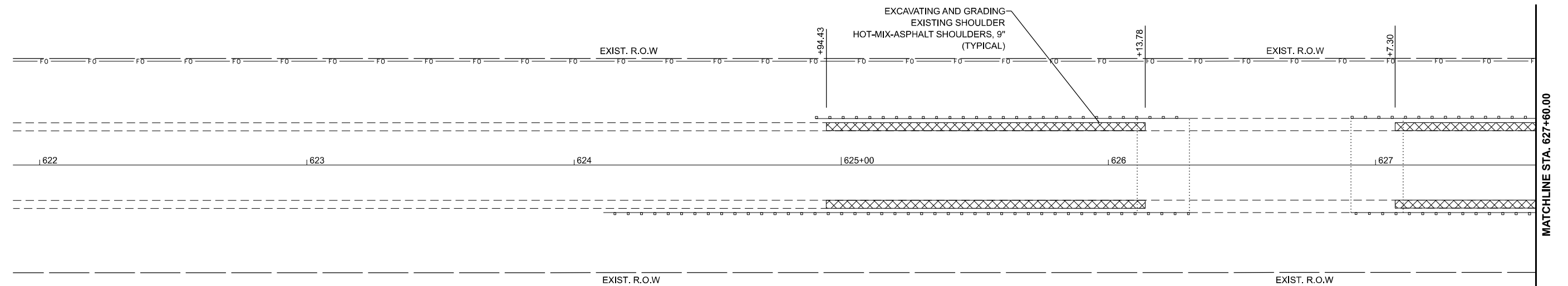
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

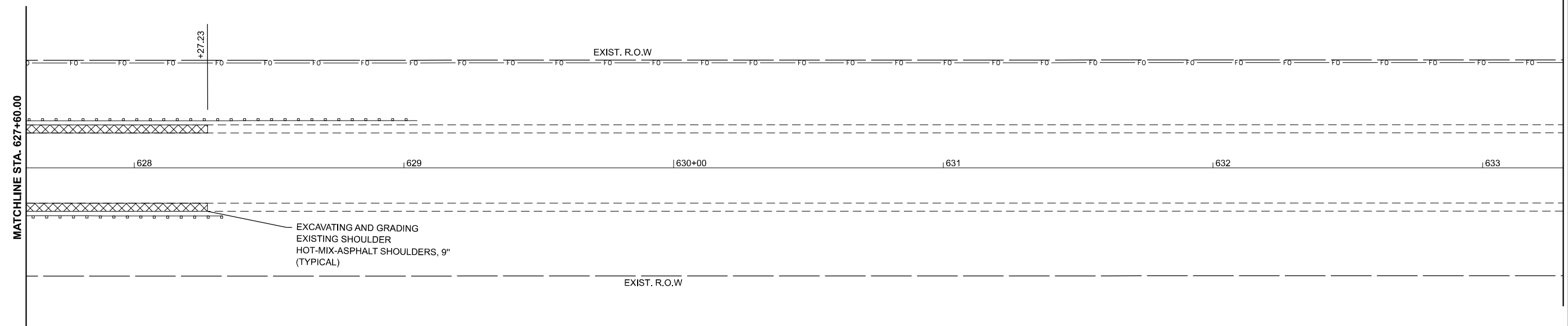
**MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (1408)BRR | BUREAU | 37           | 12        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |







MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\66P34-Border.dgn



|                                |                     |           |
|--------------------------------|---------------------|-----------|
| USER NAME = sgurmani           | DESIGNED - MAA, SAG | REVISED - |
| DRAWN - MAA, SAG               | REVISED -           |           |
| PLOT SCALE = 0.16666633 1/ in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024          | DATE - 9/6/2024     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

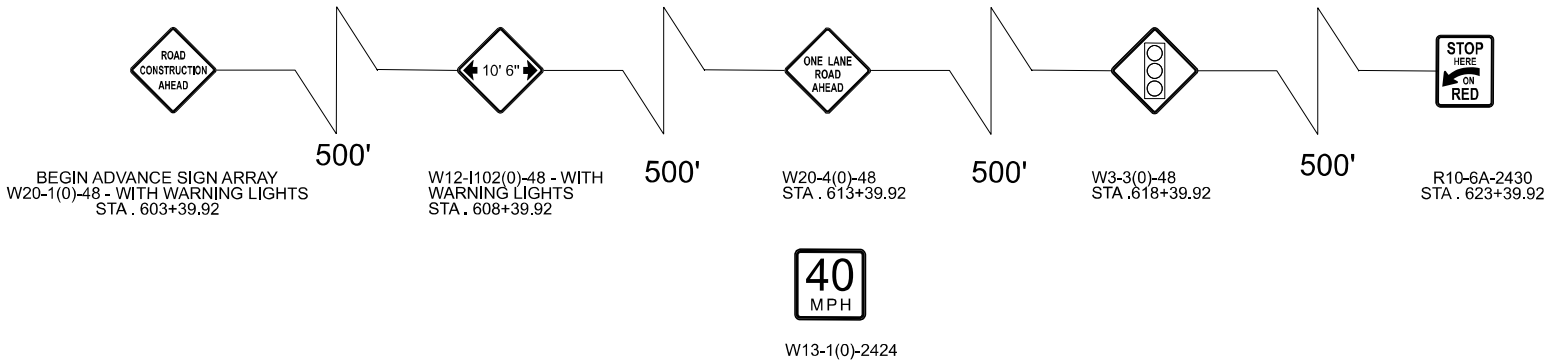
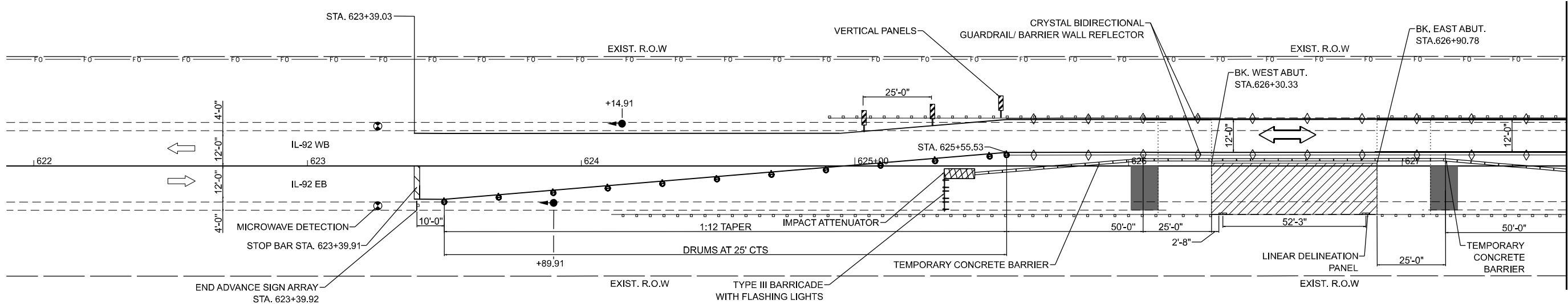
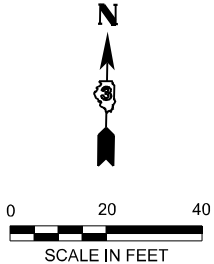
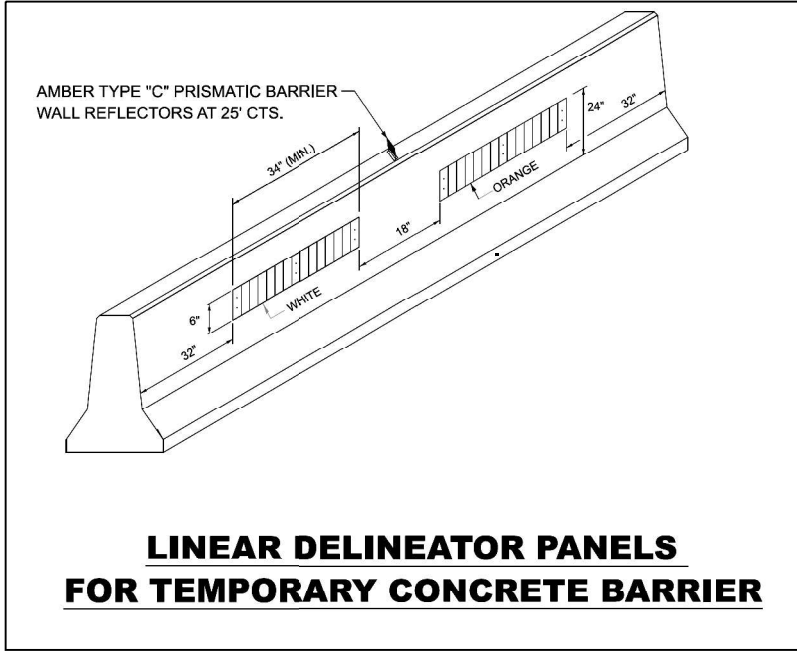
PRE-STAGE PLAN  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: 1"=20'    SHEET 2    OF 2    SHEETS    STA. 627+60.00    TO STA. 633+29.97

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 14        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

LEGEND

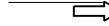
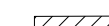
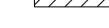
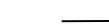
-  DIRECTION OF TRAFFIC FLOW
-  DRUM WITH PAVEMENT MARKING WITH WARNING LIGHTS
-  TEMPORARY CONCRETE BARRIER
-  WORK ZONE
-  IMPACT ATTENUATOR, TEMPORARY, (NON-REFLECTIVE, NARROW) TEST LEVEL 3
-  SIGN
-  TYPE III BARRICADE WITH FLASHING WHEN ARE WORKER NOT PRESENT
-  TEMPORARY PAVEMENT MARKING LINE 4" (WHITE)
-  SHORT TERM PAVEMENT MARKING STOP BAR 24" WHITE
-  TEMPORARY BRIDGE TRAFFIC SIGNAL W/BACKPLATE
-  PAVEMENT CONNECTOR (HMA) FOR APPROACH SLAB

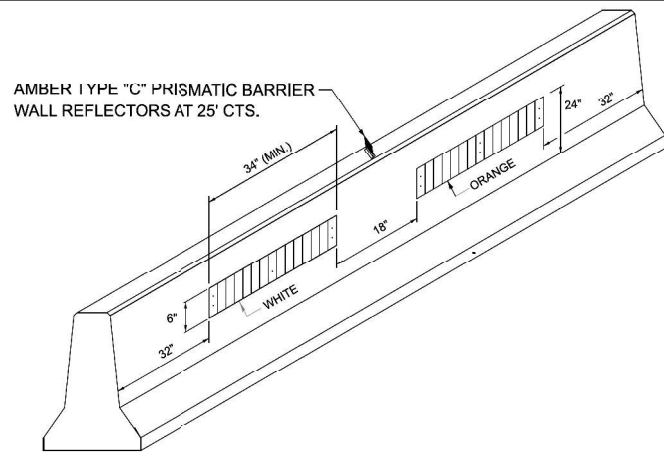
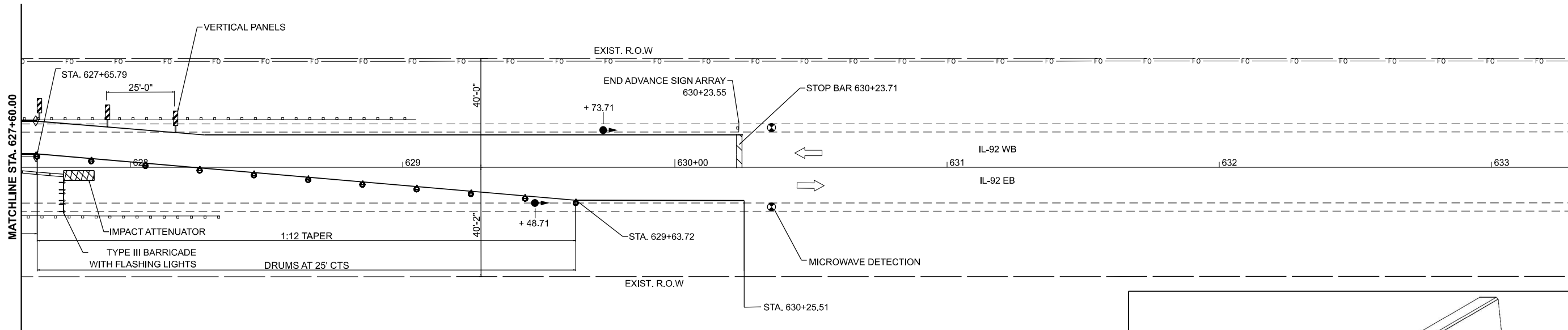
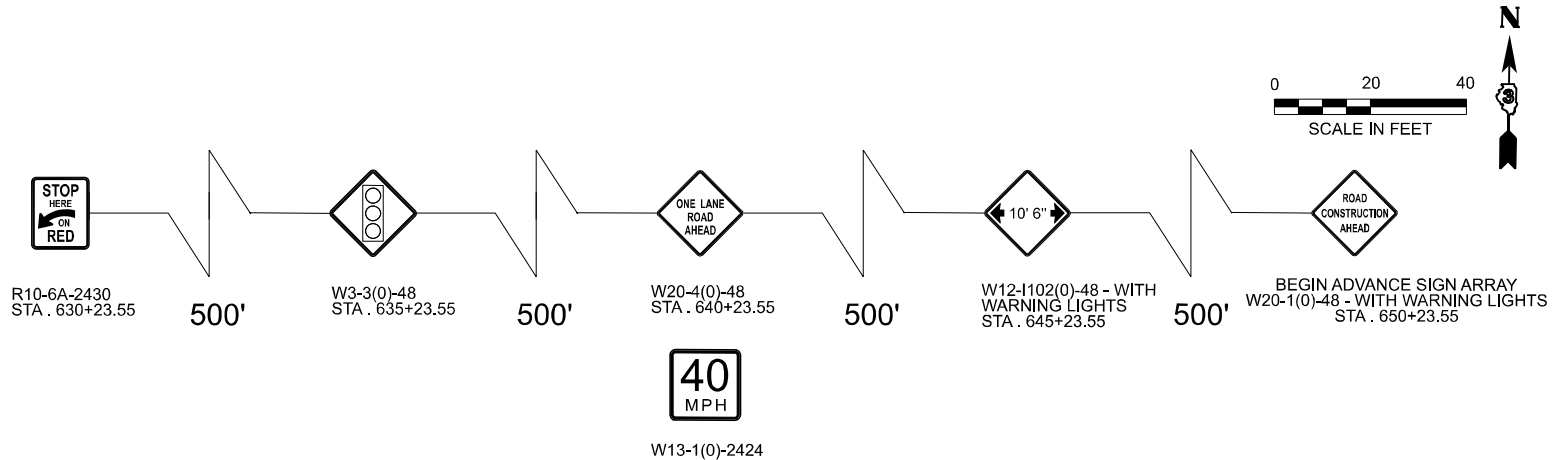


MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Trello\WO 4\Design\Draw\366P34-Border.dgn

|                                                                                                                                                                                                     |                                |                     |           |                                                           |                                                                                |         |             |                |                           |           |        |                 |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|-----------|-----------------------------------------------------------|--------------------------------------------------------------------------------|---------|-------------|----------------|---------------------------|-----------|--------|-----------------|--------------|
|  <b>AMES Engineering, Inc.</b><br>CONSULTING ENGINEERS<br>6330 Belmont Road, Suite 4B<br>Downers Grove, IL 60516 | USER NAME = sgurmani           | DESIGNED - MAA, SAG | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>MAINTENANCE OF TRAFFIC - STAGE I<br/>IL-92 OVER BRANCH OF MASTERS CREEK</b> |         |             |                | F.A.P.<br>RTE.            | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|                                                                                                                                                                                                     | PLOT SCALE = 0.16666633" / in. | DRAWN - MAA, SAG    | REVISED - |                                                           |                                                                                |         |             |                | 587                       | (140B)BRR | BUREAU | 37              | 15           |
|                                                                                                                                                                                                     | PLOT DATE = 10/8/2024          | CHECKED - JAR       | REVISED - |                                                           |                                                                                |         |             |                | CONTRACT NO. 66P34        |           |        |                 |              |
|                                                                                                                                                                                                     |                                | DATE - 9/6/2024     | REVISED - |                                                           |                                                                                |         |             |                | ILLINOIS FED. AID PROJECT |           |        |                 |              |
|                                                                                                                                                                                                     |                                |                     |           |                                                           | SCALE: 1"=20'                                                                  | SHEET 1 | OF 2 SHEETS | STA. 621+89.97 | TO STA. 627+60.00         |           |        |                 |              |

LEGEND

- 
- DIRECTION OF TRAFFIC FLOW
- 
- DRUM WITH PAVEMENT MARKING  
WITH WARNING LIGHTS
- 
- TEMPORARY CONCRETE BARRIER
- 
- WORK ZONE
- 
- IMPACT ATTENUATOR, TEMPORARY,  
(NON-REFLECTIVE, NARROW)  
TEST LEVEL 3
- 
- SIGN
- 
- TYPE III BARRICADE WITH FLASHING  
WHEN ARE WORKER NOT PRESENT
- 
- TEMPORARY PAVEMENT MARKING  
LINE 4" (WHITE)
- 
- SHORT TERM PAVEMENT MARKING  
STOP BAR 24" WHITE
- 
- TEMPORARY BRIDGE TRAFFIC SIGNAL  
W/BACKPLATE
- 
- PAVEMENT CONNECTOR (HMA)  
FOR APPROACH SLAB



**LINEAR DELINEATOR PANELS  
FOR TEMPORARY CONCRETE BARRIER**

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\Border.dgn



|                                |                     |           |
|--------------------------------|---------------------|-----------|
| USER NAME = sguarani           | DESIGNED - MAA, SAG | REVISED - |
|                                | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024          | DATE - 9/6/2024     | REVISED - |

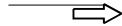
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE I  
IL-92 OVER BRANCH OF MASTERS CREEK

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 627+60.00 TO STA. 633+29.97

| F.A.P.<br>RTE.            | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|-----------|--------|-----------------|--------------|
| 587                       | (140B)BRR | BUREAU | 37              | 16           |
| CONTRACT NO. 66P34        |           |        |                 |              |
| ILLINOIS FED. AID PROJECT |           |        |                 |              |

## LEGEND



DIRECTION OF TRAFFIC FLOW



DRUM WITH PAVEMENT MARKING  
WITH WARNING LIGHTS



TEMPORARY CONCRETE BARRIER



WORK ZONE



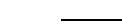
IMPACT ALTENUATOR, TEMPORARY,  
(NON-REFLECTIVE, NARROW)  
TEST LEVEL 3



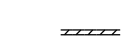
SIGN



TYPE III BARRICADE WITH FLASHING  
WHEN ARE WORKER NOT PRESENT



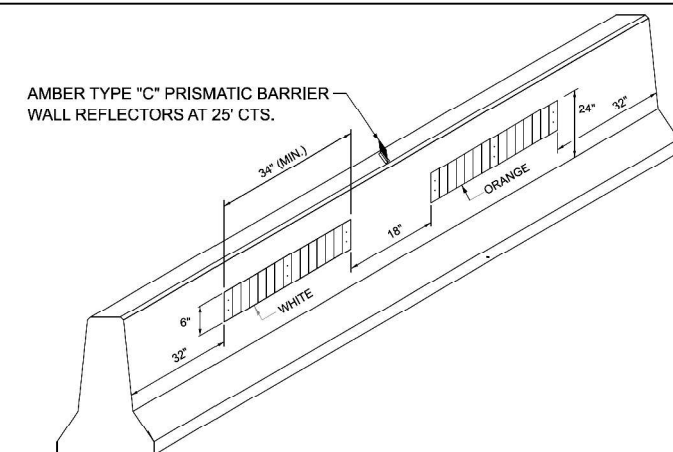
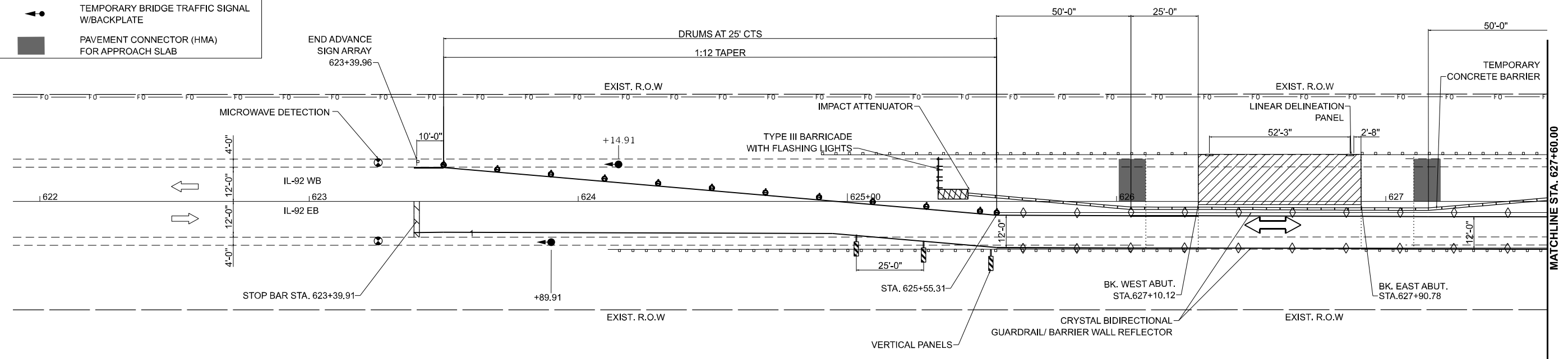
TEMPORARY PAVEMENT MARKING  
LINE 4" (WHITE)



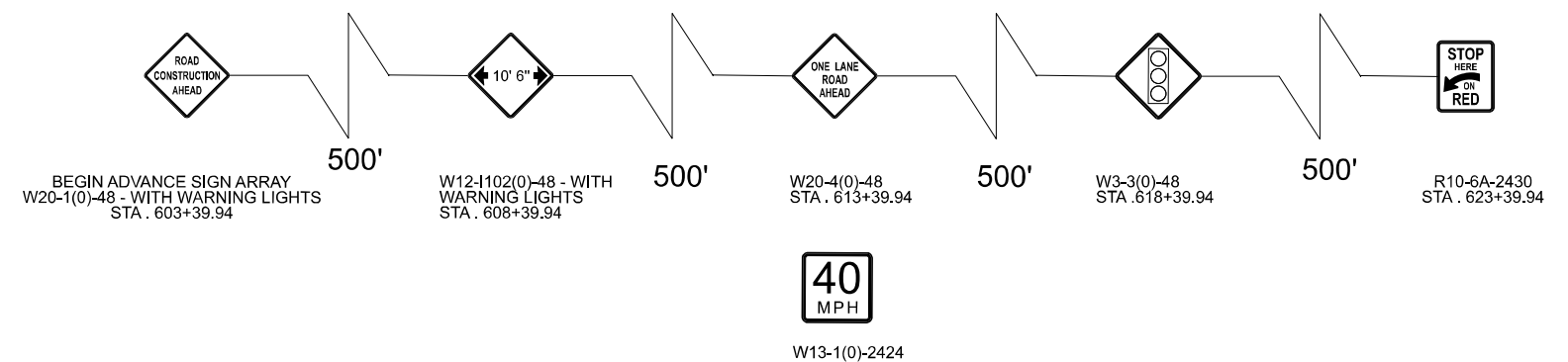
SHORT TERM PAVEMENT MARKING  
STOP BAR 24" WHITE



TEMPORARY BRIDGE TRAFFIC SIGNAL  
W/BACKPLATE

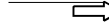
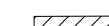
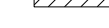
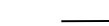
PAVEMENT CONNECTOR (HMA)  
FOR APPROACH SLAB

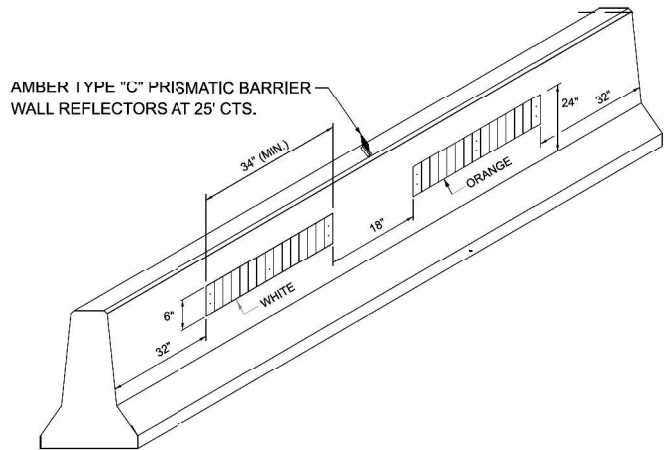
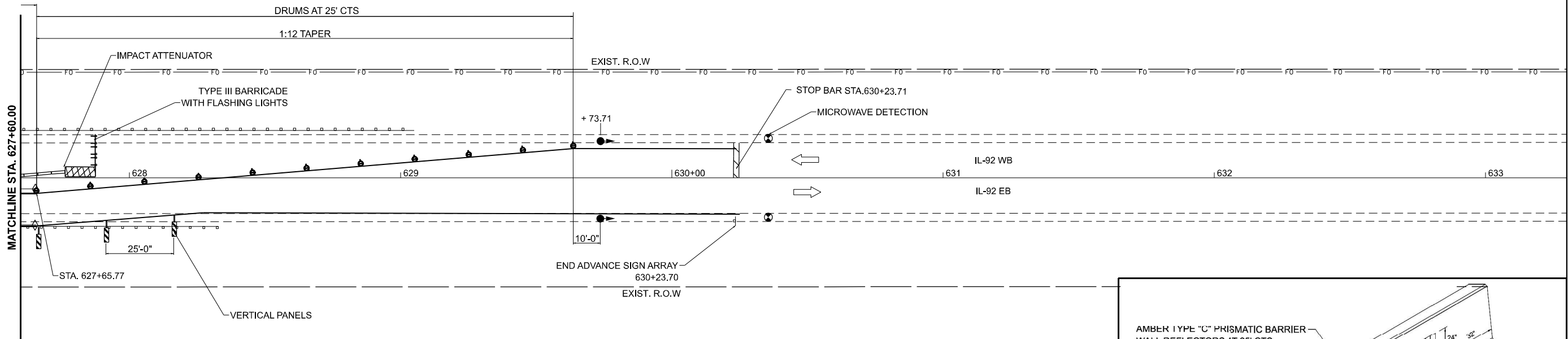
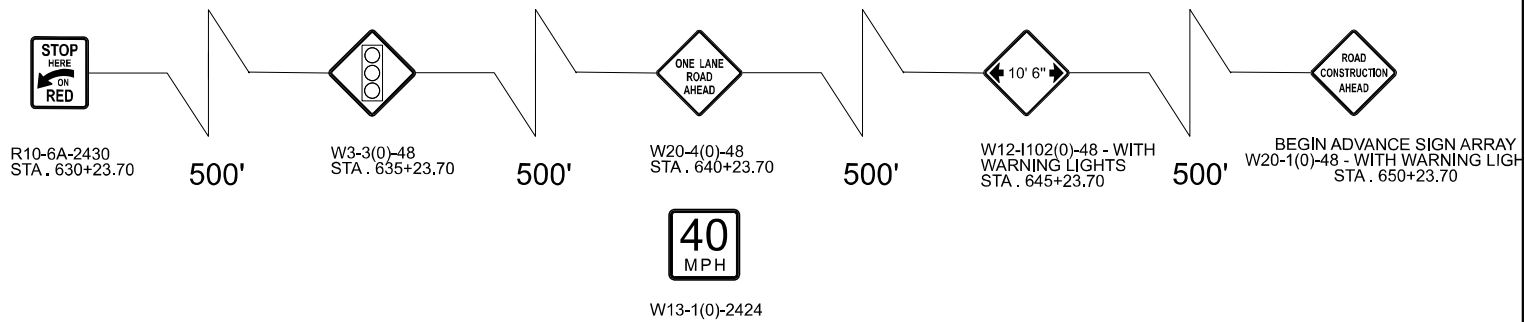
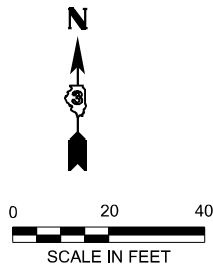
## **LINEAR DELINEATOR PANELS** **FOR TEMPORARY CONCRETE BARRIER**



|                                                                                                                                                                                                            |                                |                     |           |                                                               |                                                                                     |         |             |      |             |           |        |              |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|-----------|---------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-------------|------|-------------|-----------|--------|--------------|-----------|
| <div> AMES Engineering, Inc.<br/>CONSULTING ENGINEERS<br/>5330 Belmont Road, Suite 4B<br/>Downers Grove, IL 60516</div> | USER NAME = sgurmani           | DESIGNED - MAA, SAG | REVISED - | <div>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</div> | <div>MAINTENANCE OF TRAFFIC - STAGE II<br/>IL-92 OVER BRANCH OF MASTERS CREEK</div> |         |             |      | F.A.P. RTE. | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                                                                                                                                                                                            |                                | DRAWN - MAA, SAG    | REVISED - |                                                               |                                                                                     |         |             |      | 587         | (140B)BRR | BUREAU | 37           | 17        |
|                                                                                                                                                                                                            | PLOT SCALE = 0.19666633' / in. | CHECKED - JAR       | REVISED - |                                                               | CONTRACT NO. 66P34                                                                  |         |             |      |             |           |        |              |           |
|                                                                                                                                                                                                            | PLOT DATE = 10/8/2024          | DATE = 9/6/2024     | REVISED - |                                                               | SCALE: 1"=20                                                                        | SHEET 1 | OF 2 SHEETS | STA. | TO STA.     |           |        |              |           |

LEGEND

- 
- DIRECTION OF TRAFFIC FLOW
- 
- DRUM WITH PAVEMENT MARKING  
WITH WARNING LIGHTS
- 
- TEMPORARY CONCRETE BARRIER
- 
- WORK ZONE
- 
- IMPACT ALTENUATOR, TEMPORARY,  
(NON-REFLECTIVE, NARROW)  
TEST LEVEL 3
- 
- SIGN
- 
- TYPE III BARRICADE WITH FLASHING  
WHEN ARE WORKER NOT PRESENT
- 
- TEMPORARY PAVEMENT MARKING  
LINE 4" (WHITE)
- 
- SHORT TERM PAVEMENT MARKING  
STOP BAR 24" WHITE
- 
- TEMPORARY BRIDGE TRAFFIC SIGNAL  
W/BACKPLATE
- 
- PAVEMENT CONNECTOR (HMA)  
FOR APPROACH SLAB



**LINEAR DELINEATOR PANELS  
FOR TEMPORARY CONCRETE BARRIER**

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\66P34-Border.dgn



|                                |                     |           |
|--------------------------------|---------------------|-----------|
| USER NAME = sgurmani           | DESIGNED - MAA, SAG | REVISED - |
|                                | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 0.16666633" / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024          | DATE - 9/6/2024     | REVISED - |

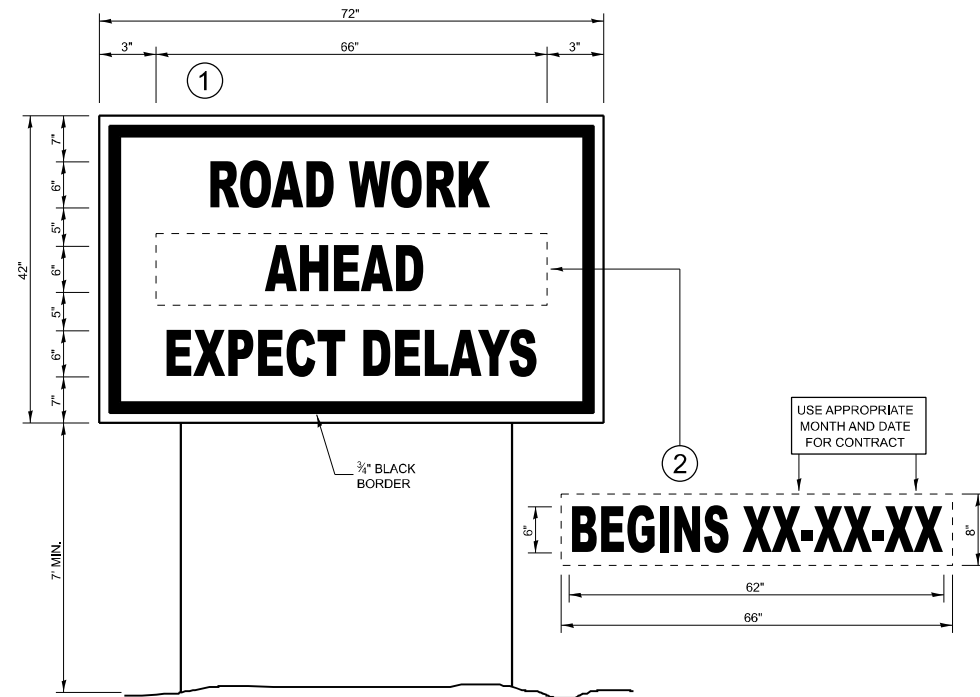
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE II  
IL-92 OVER BRANCH OF MASTERS CREEK**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 627+60.00 TO STA. 633+30.00

| F.A.P.<br>RTE.            | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|-----------|--------|-----------------|--------------|
| 587                       | (140B)BRR | BUREAU | 37              | 18           |
| CONTRACT NO. 66P34        |           |        |                 |              |
| ILLINOIS FED. AID PROJECT |           |        |                 |              |

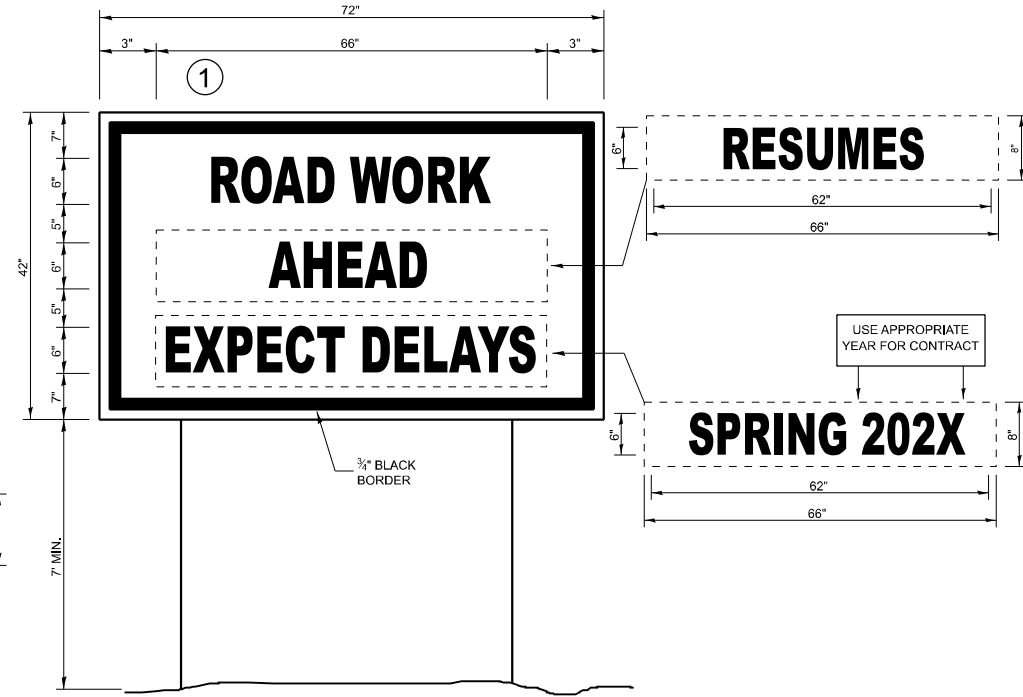




**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN WITH INSTALLED PANEL A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



**WINTER SHUT DOWN SIGNING**

MODEL: Default  
FILE NAME: F:\Projects\1084 - Phase II - Kuhn and Treloar\WO 4\Design\Drawings\1084-Phase II-Kuhn and Treloar\WO 4-Border.dgn



|                                |                     |           |
|--------------------------------|---------------------|-----------|
| USER NAME = sgrumani           | DESIGNED - MAA, SAG | REVISED - |
|                                | DRAWN - MAA, SAG    | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - JAR       | REVISED - |
| PLOT DATE = 10/8/2024          | DATE - 9/6/2024     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SIGNING DETAIL  
IL-92 OVER BRANCH OF MASTERS CREEK**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 19        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

Existing Structure: SN 006-0101 is a single span W33 composite steel beam superstructure with a CIP 7½" deck. The structure was originally built in 1932 at STA 626+60 on closed abutments over timber piles, and Tee-beam superstructure, then widened in 1949. The superstructure was replaced in 1991.

SCOPE OF WORK

1. Removal of deck ends and parapet at deck ends.
2. Removal of existing expansion joints.
3. Removal of existing approach slab under travel lanes.
4. Deck slab repairs.
5. Install new expansion joints and pour deck ends.
6. Install new rubber strip seal into locking edge rails.
7. Pour parapet ends.
8. Pour new approach footing and slab.
9. Repair northwest approach shoulder curb.

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Protective Coat shall be applied to the finished surfaces of all new concrete areas including the deck and approach slab repairs.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. When the deck is poured at an ambient temperature other than 50°F.

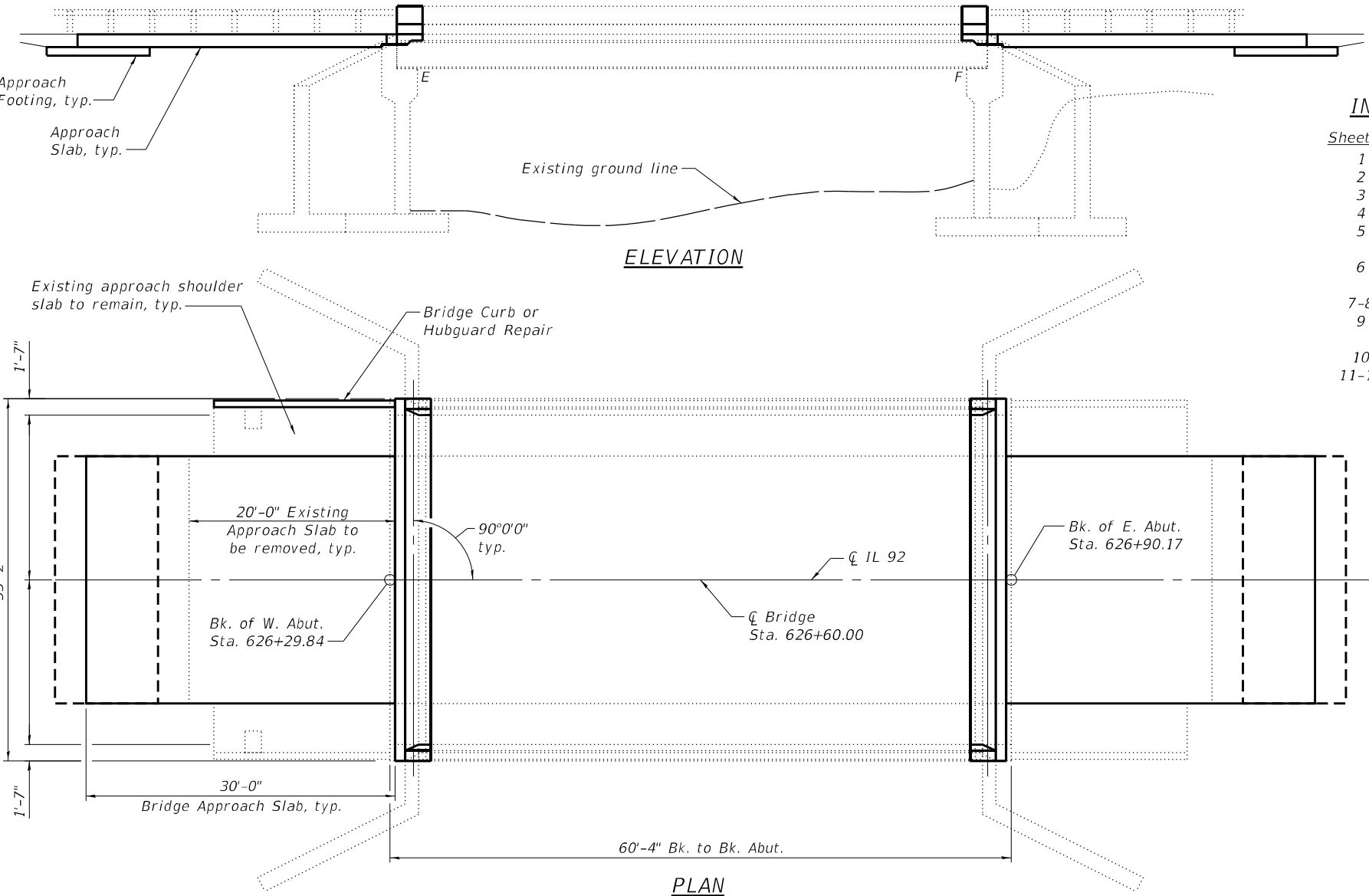
Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

The Contractor shall use extreme care during concrete removal not to damage the structural steel.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with the concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.



INDEX OF SHEETS

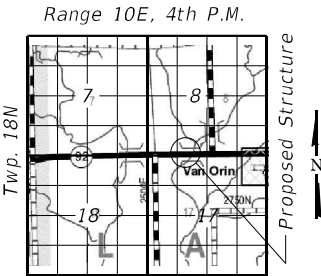
| Sheet No. | Description                                    |
|-----------|------------------------------------------------|
| 1         | General Plan & Elevation                       |
| 2         | Stage Construction Details                     |
| 3         | Temporary Concrete Barrier                     |
| 4         | Deck Slab Repair Plan                          |
| 5         | Superstructure - Concrete Removal details      |
| 6         | Superstructure - Deck Reinforcement Details    |
| 7-8       | Bridge Approach Slab Details                   |
| 9         | Bar Splicer Assembly and Mech. Splicer Details |
| 10        | Performed Joint Strip Seal                     |
| 11-18     | Existing Bridge Plans                          |

DESIGN STRESSES

FIELD UNITS

New Construction  
f'c = 4,000 psi  
fy = 60,000 psi (Reinforcement)

Existing Structure  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (Structural Steel - M223 Grade 50)



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
IL 92 OVER BRANCH OF MASTERS CREEK  
F.A.P. 587 - SEC. (140B)BRR  
BUREAU COUNTY  
STATION 626+60.00  
STRUCTURE NO. 006-0101

TOTAL BILL OF MATERIAL

| Item                                    | Unit    | Total  |
|-----------------------------------------|---------|--------|
| Concrete Removal                        | Cu. Yd. | 9.8    |
| Concrete Structures                     | Cu. Yd. | 14.8   |
| Concrete Superstructure                 | Cu. Yd. | 9.8    |
| Protective Coat                         | Sq. Yd. | 190    |
| Concrete Superstructure (Approach Slab) | Cu. Yd. | 66.7   |
| Reinforcement Bars, Epoxy Coated        | Pound   | 27,650 |
| Bar Splicers                            | Each    | 318    |
| Preformed Joint Strip Seal              | Foot    | 68     |
| Approach Slab Removal                   | Sq. Yd. | 107    |
| Bridge Curb or Hubguard Repair          | Foot    | 15     |
| Deck Slab Repair (Full Depth, Type II)  | Sq. Yd. | 2      |
| Deck Slab Repair (Partial)              | Sq. Yd. | 3      |

Plans Prepared by  
Civil Design, Inc.

STEPHEN J. NOETH  
081.008005  
LICENSED  
STRUCTURAL  
ENGINEER  
OF  
ILLINOIS

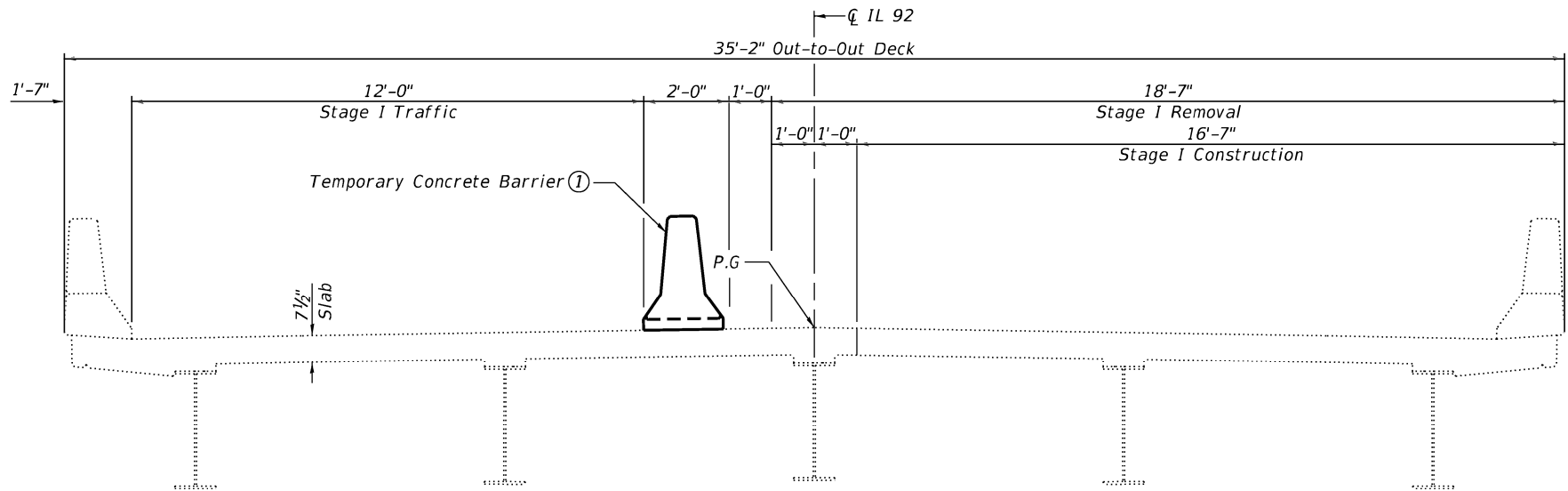
Date: 10/04/2024  
Expiration: 11/30/2024

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

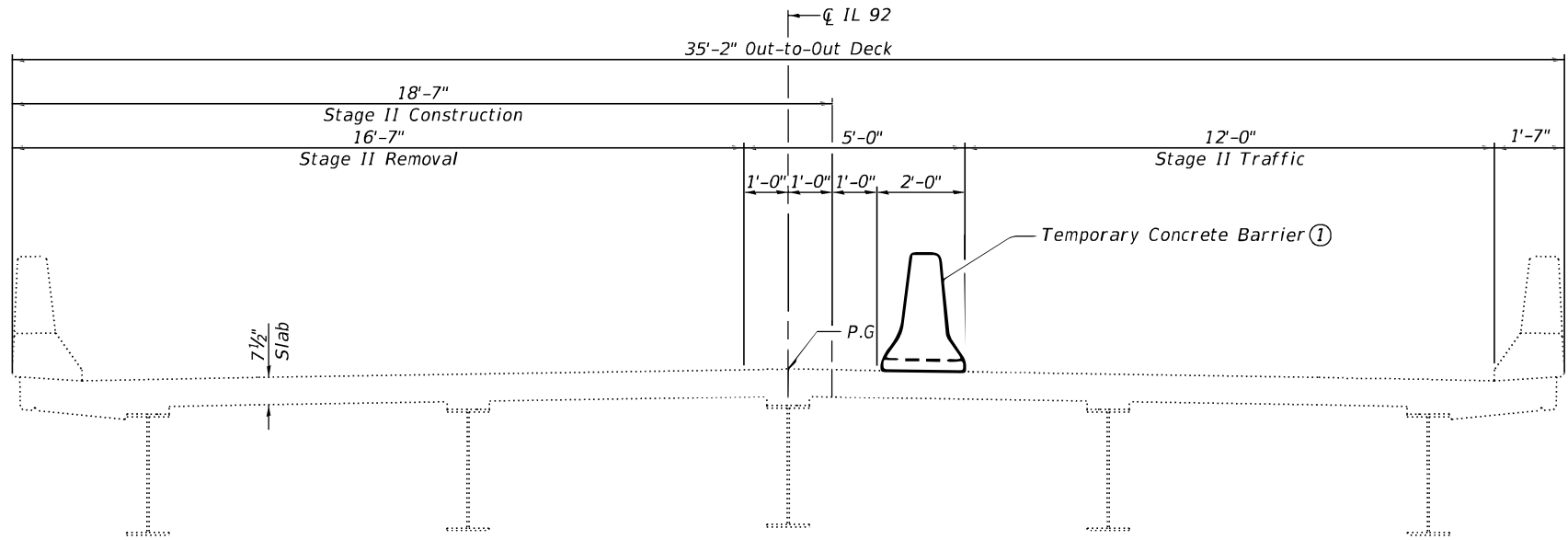
SHEET 1 OF 18 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 20        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |





**STAGE I REMOVAL & CONSTRUCTION**  
(Looking East)

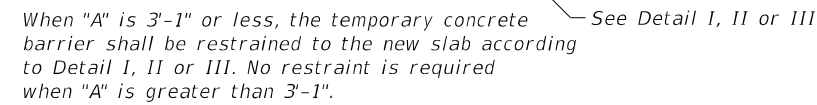


**STAGE II REMOVAL & CONSTRUCTION**  
(Looking East)

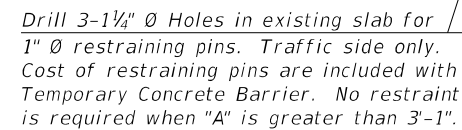
Notes:  
① For details of Temporary Concrete Barrier, see sheet 3 of 18. See roadway plans for quantity of Temporary Concrete Barrier and related traffic control.

MODEL: Default  
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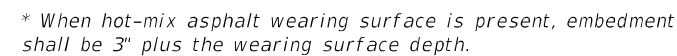
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---------------|-----------|---------------------------------------------------|------------------------------------------------------|--|-----------------------------|-----------|--------|-----------------|--------------|
| <div><div>CIVIL DESIGN, INC.<br/>WBE   DBE<br/>EFFINGHAM, IL<br/>LICENSE #184.003222</div></div> | USER NAME =  |  | DESIGNED - NP | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | STAGE CONSTRUCTION DETAILS<br>STRUCTURE NO. 006-0101 |  | F.A.P.<br>RTE.              | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|                                                                                                                                                                                     |              |  | CHECKED - SJN | REVISED - |                                                   |                                                      |  | 587                         | (140B)BRR | BUREAU | 37              | 21           |
|                                                                                                                                                                                     | PLOT SCALE = |  | DRAWN - NP    | REVISED - |                                                   |                                                      |  | CONTRACT NO. 66P34          |           |        |                 |              |
|                                                                                                                                                                                     | PLOT DATE =  |  | CHECKED - SJN | REVISED - |                                                   |                                                      |  | ILLINOIS   FED. AID PROJECT |           |        |                 |              |
| SHEET 2 OF 18 SHEETS                                                                                                                                                                |              |  |               |           |                                                   |                                                      |  |                             |           |        |                 |              |



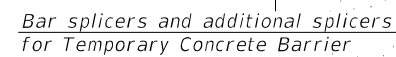
NEW SLAB OR NEW DECK BEAM



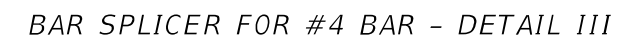
EXISTING SLAB



EXISTING DECK BEAM



### DETAIL II

DETAIL III

### RAILING CRITERIA

|                      |     |
|----------------------|-----|
| NCHRP 350 Test Level | 3   |
| Railing Weight (plf) | 440 |

R-27

5-15-2023



**CIVIL DESIGN, INC.**  
WBE / DBE

EFFINGHAM, IL  
LICENSE #184.003222

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 006-0101

SHEET 3 OF 18 SHEETS

|               |           |                    |                 |              |
|---------------|-----------|--------------------|-----------------|--------------|
| F.A.P<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 587           | (140B)BRR | BUREAU             | 37              | 22           |
|               |           | CONTRACT NO. 66P34 |                 |              |
|               |           | ILLINOIS           | FEED            | AID PROJECT  |

|          |                  |
|----------|------------------|
| ILLINOIS | FED. AID PROJECT |
|----------|------------------|

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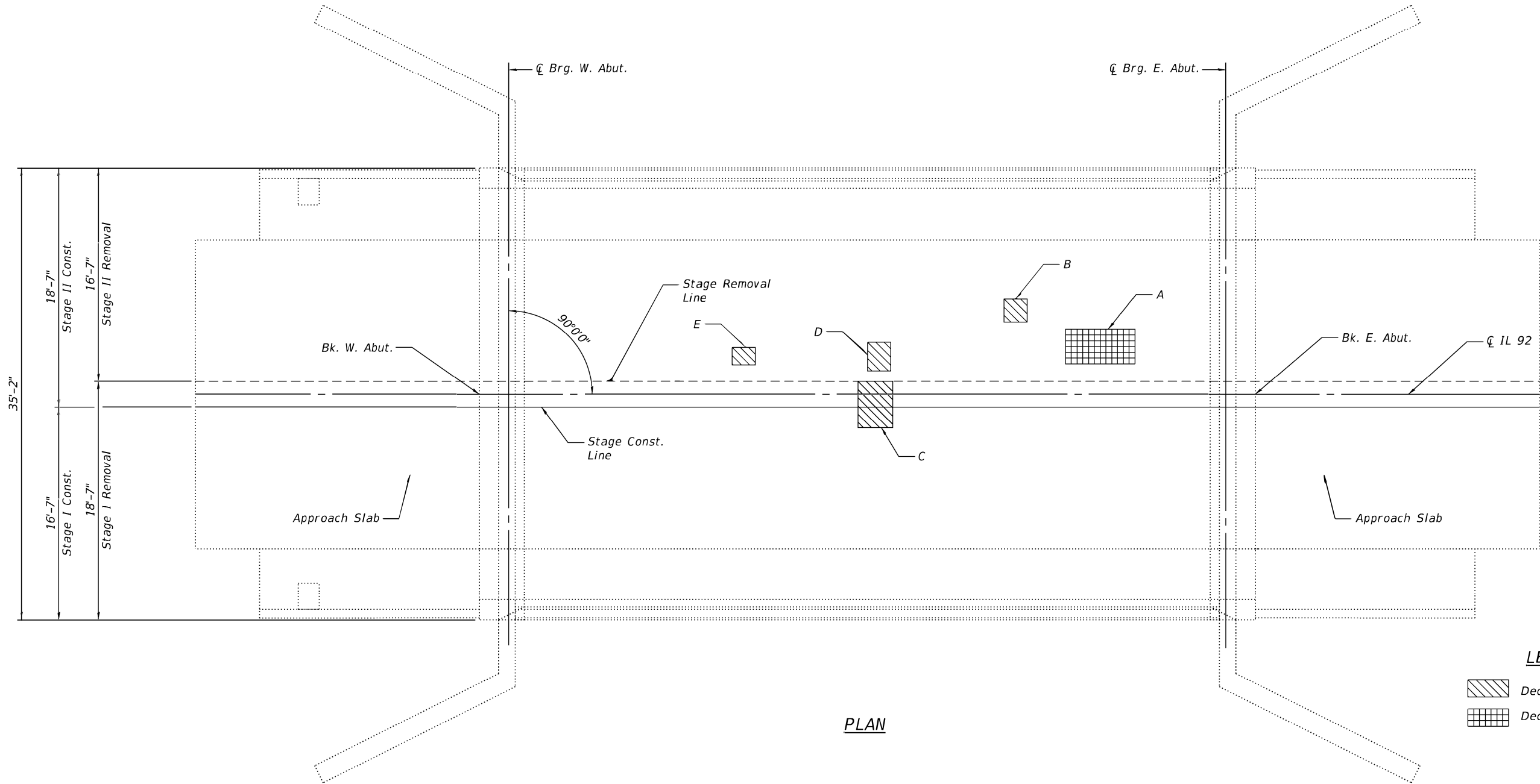


|              |               |           |
|--------------|---------------|-----------|
| USER NAME =  | DESIGNED - NP | REVISED - |
|              | CHECKED - SJN | REVISED - |
| PLOT SCALE = | DRAWN - NP    | REVISED - |
| PLOT DATE =  | CHECKED - SJN | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN  
STRUCTURE NO. 006-0101  
SHEET 4 OF 18 SHEETS

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| 587                       | (140B)BRR | BUREAU | 37           | 23        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



PLAN

DECK SLAB REPAIR (FULL DEPTH, TYPE II)

| Const. Stage | Area | Length (Ft.) | Width (Ft.) | Area (Sq. Yd.) |
|--------------|------|--------------|-------------|----------------|
| II           | A    | 6            | 3           | 2.0            |
|              |      |              |             |                |
|              |      |              |             |                |
|              |      |              |             |                |
|              |      |              |             |                |

DECK SLAB REPAIR (PARTIAL)

| Const. Stage | Area | Length (Ft.) | Width (Ft.) | Area (Sq. Yd.) |
|--------------|------|--------------|-------------|----------------|
| II           | B    | 2            | 2           | 0.4            |
| I & II       | C    | 3            | 4           | 1.3            |
| II           | D    | 2            | 2.5         | 0.6            |
| II           | E    | 2            | 1.5         | 0.3            |
|              |      |              |             |                |

LEGEND

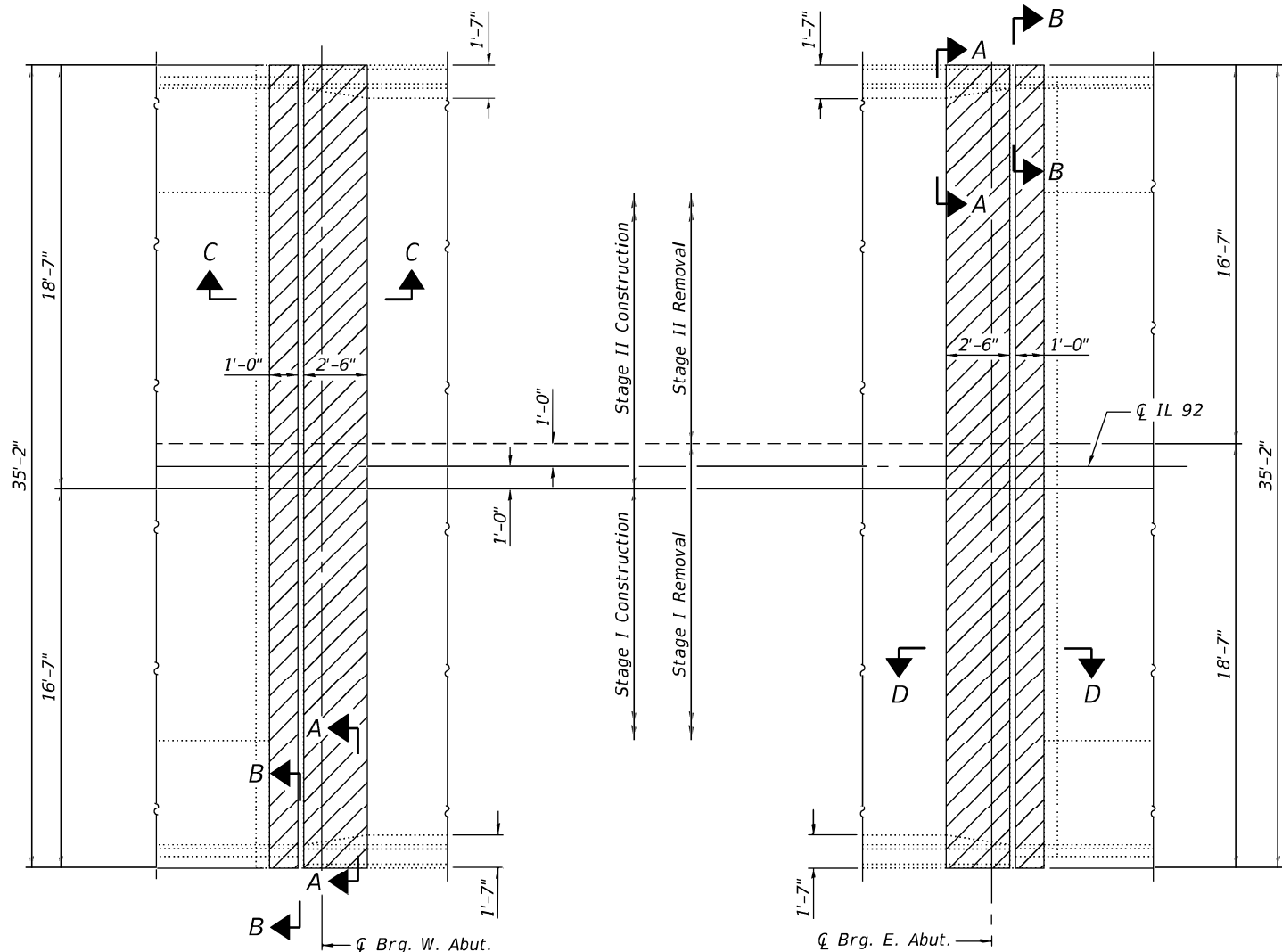
- Deck Slab Repair (Partial)
- Deck Slab Repair (Full Depth, Type II)

- Notes:
- The Engineer shall show actual locations of deck repairs on as-built plans.
  - Extreme care must be used when removing concrete near the top flange of the beams. The Contractor is responsible for any damage to the beams.
  - Quantities and limits of repairs shown are estimated only. The actual areas to be repaired shall be determined by the Engineer at the time of construction.
  - Concrete shall be Class PP-1, PP-2, or BS. For additional requirements of Deck Slab Repair, see Special Provisions.

BILL OF MATERIAL

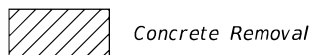
| Item                                   | Unit    | Total |
|----------------------------------------|---------|-------|
| Deck Slab Repair (Full Depth, Type II) | Sq. Yd. | 2     |
| Deck Slab Repair (Partial)             | Sq. Yd. | 3     |

MODEL: Default  
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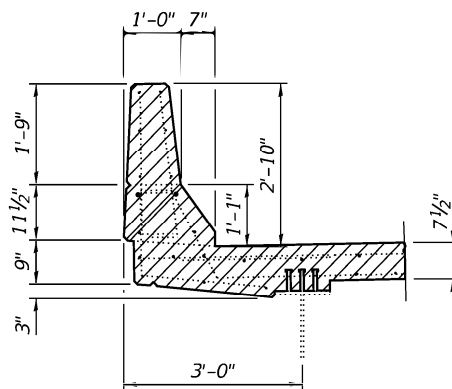
PARTIAL PLAN

LEGEND

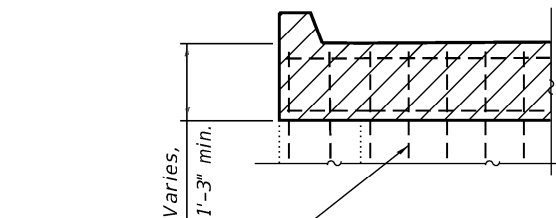


Notes:

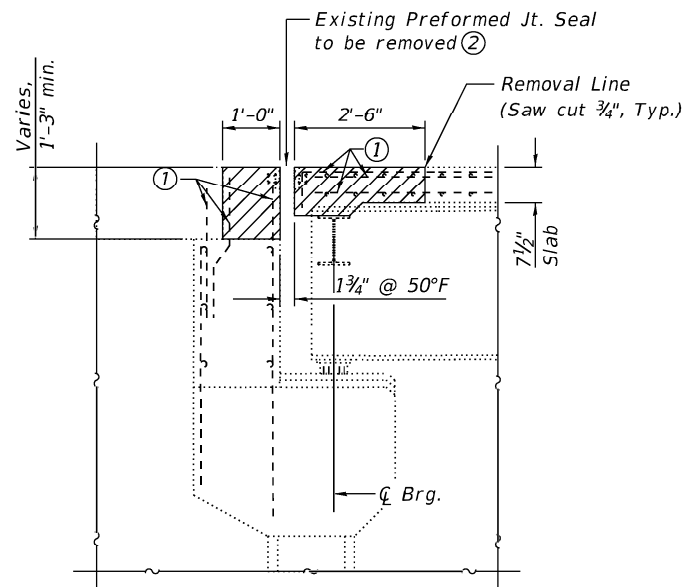
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New Construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.



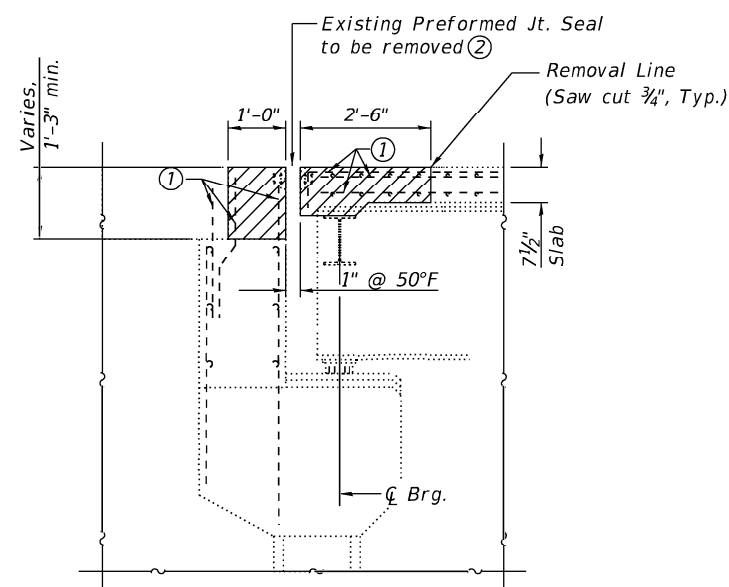
SECTION A-A  
(Match Existing Parapet)



SECTION B-B  
Existing reinforcement to remain ①



SECTION C-C



SECTION D-D

TYPICAL SECTION THRU. ABUTMENT

BILL OF MATERIAL

| Item             | Unit    | Total |
|------------------|---------|-------|
| Concrete Removal | Cu. Yd. | 9.8   |



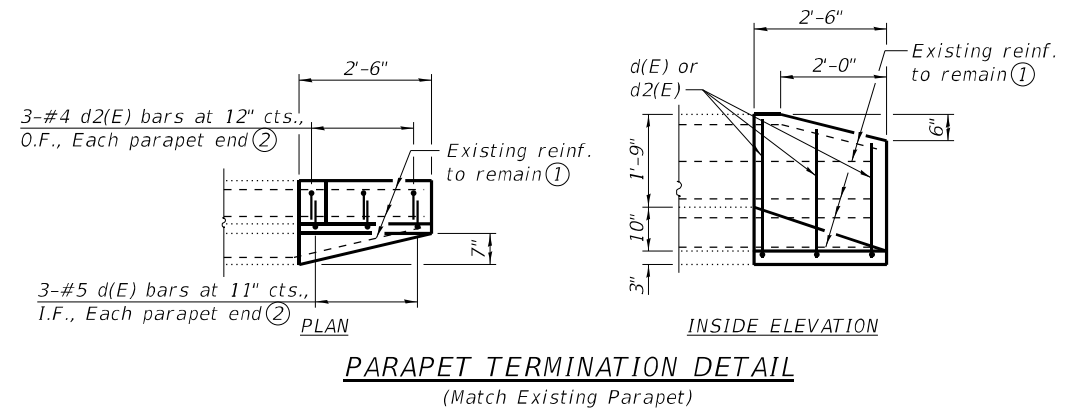
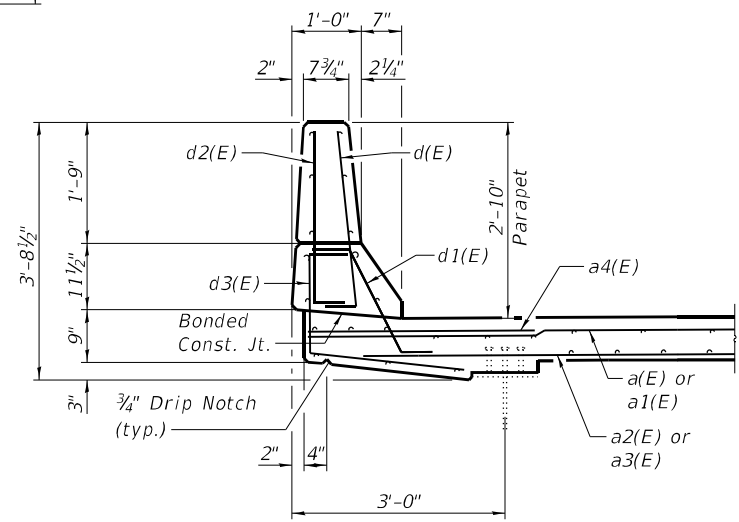
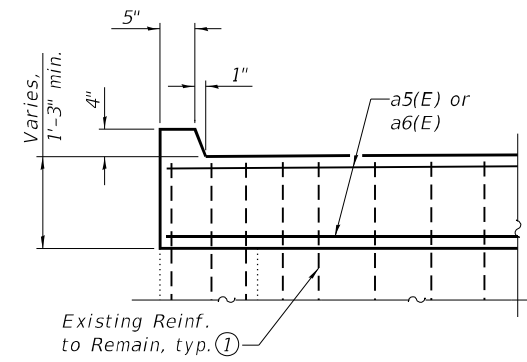
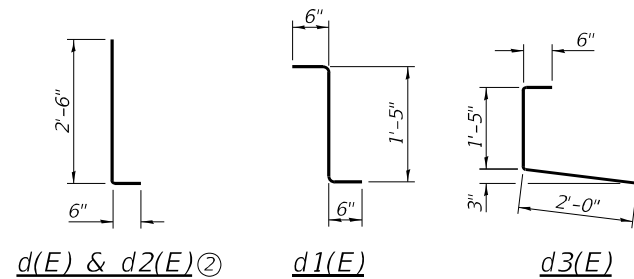
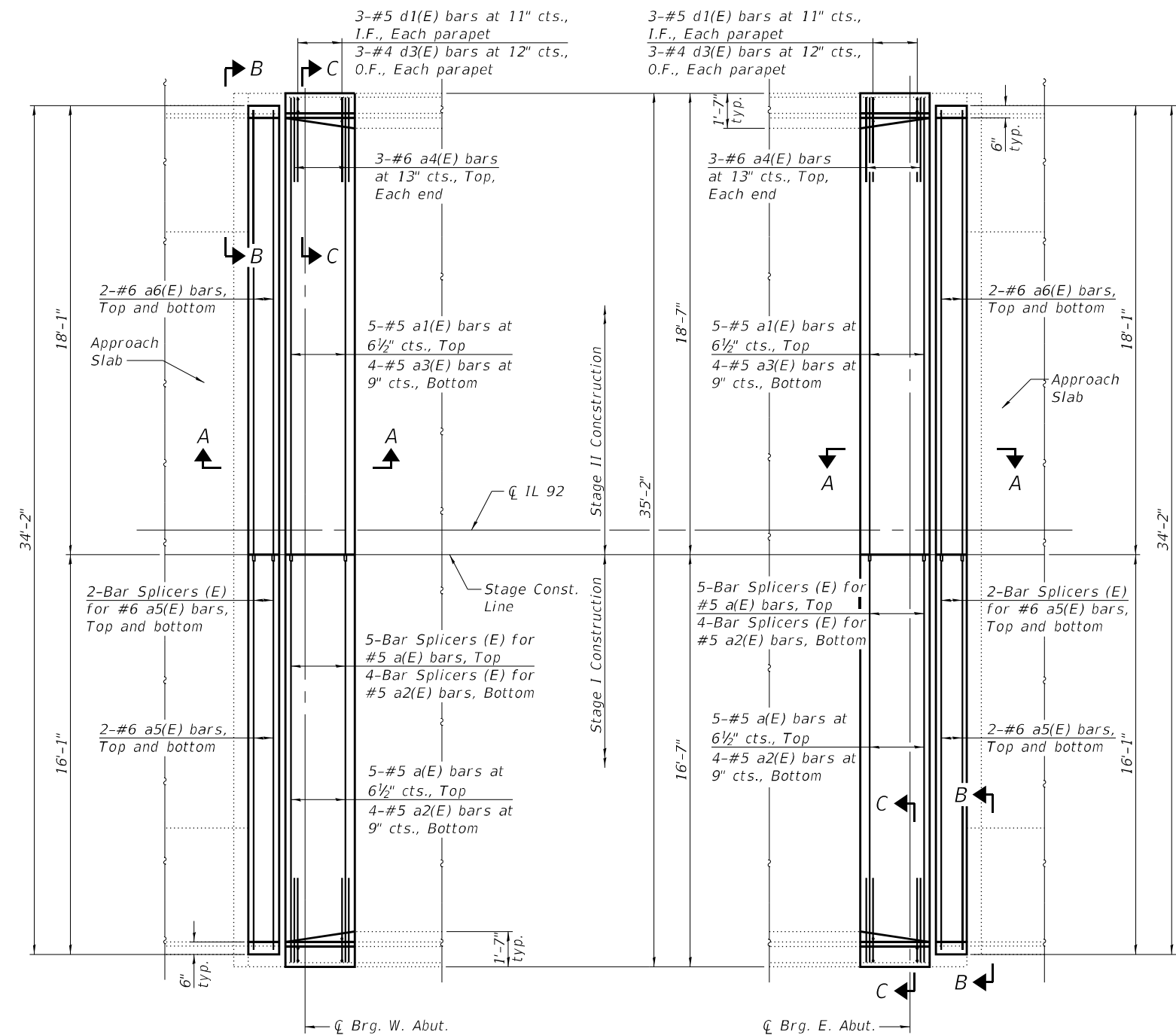
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| USER NAME =   | DESIGNED - NP | REVISED - |
| CHECKED - SJN | REVIS         |           |
| PLOT SCALE =  | DRAWN - NP    | REVISED - |
| PLOT DATE =   | CHECKED - SJN | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - CONCRETE REMOVAL DETAILS  
STRUCTURE NO. 006-0101

SHEET 5 OF 18 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 24        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



Notes:

- ① Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during approach slab removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- ② Cut long leg of d(E) and d2(E) bars as needed to fit parapet taper.
- ③ I.F. denotes Inside Face and O.F. denotes Outside Face.

BILL OF MATERIAL

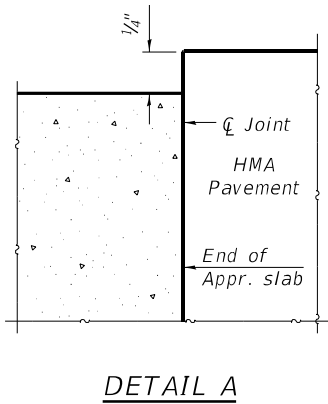
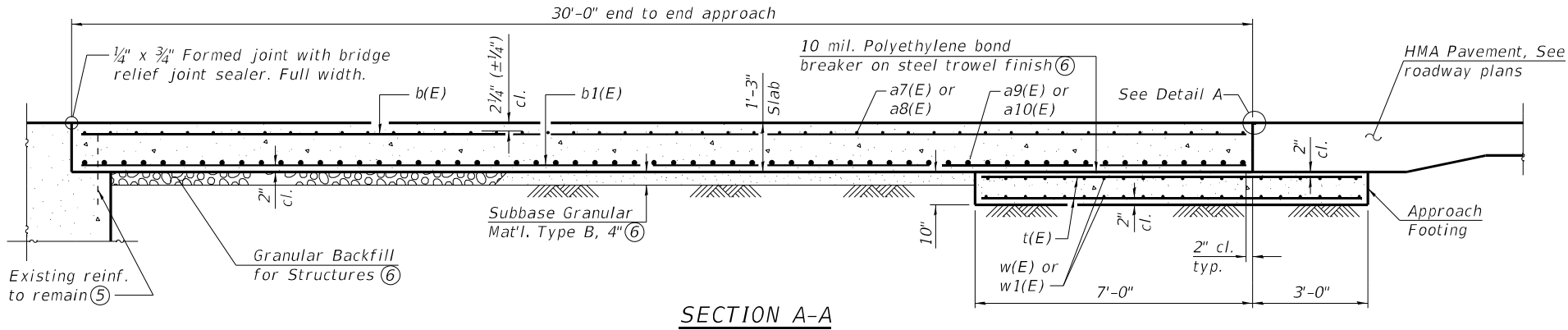
| Bar                                 | No. | Size | Length  | Shape |
|-------------------------------------|-----|------|---------|-------|
| a(E)                                | 10  | #5   | 16'-4"  | ===== |
| a1(E)                               | 10  | #5   | 18'-4"  | ===== |
| a2(E)                               | 8   | #5   | 15'-6"  | ===== |
| a3(E)                               | 8   | #5   | 17'-6"  | ===== |
| a4(E)                               | 12  | #6   | 4'-0"   | ===== |
| a5(E)                               | 8   | #6   | 15'-10" | ===== |
| a6(E)                               | 8   | #6   | 17'-10" | ===== |
|                                     |     |      |         |       |
| d(E)                                | 12  | #5   | 3'-0"   | ===== |
| d1(E)                               | 12  | #5   | 2'-5"   | ===== |
| d2(E)                               | 12  | #4   | 3'-0"   | ===== |
| d3(E)                               | 12  | #4   | 4'-2"   | ===== |
|                                     |     |      |         |       |
| Concrete Superstructure             |     |      | Cu. Yd. | 9.8   |
| Reinforcement Bars,<br>Epoxy Coated |     |      | Pound   | 1,240 |



| West Approach      |        |        | East Approach      |        |        |
|--------------------|--------|--------|--------------------|--------|--------|
| Point/<br>Location | Top    | Bottom | Point/<br>Location | Top    | Bottom |
| A (NE)             | 782.53 | 781.70 | A (NW)             | 783.70 | 782.87 |
| B (East)           | 782.72 | 781.89 | B (West)           | 783.89 | 783.06 |
| C (SE)             | 782.53 | 781.70 | C (SW)             | 783.70 | 782.87 |
| D (NW)             | 782.42 | 781.59 | D (NE)             | 783.81 | 782.98 |
| E (West)           | 782.61 | 781.78 | E (East)           | 784.00 | 783.17 |
| F (SW)             | 782.42 | 781.59 | F (SE)             | 783.81 | 782.98 |



MODEL: Default  
FILE NAME: P:\5XXXXX\58XX-59XX\15920 - PTB 205-423 D3 VV\_Kuhn\_Trella\00WO4124-Structures\CAD - 5510100601.01-66P34-008\_Bridge Approach Slab Details 2.dgn  
10/4/2024 3:24:22 PM



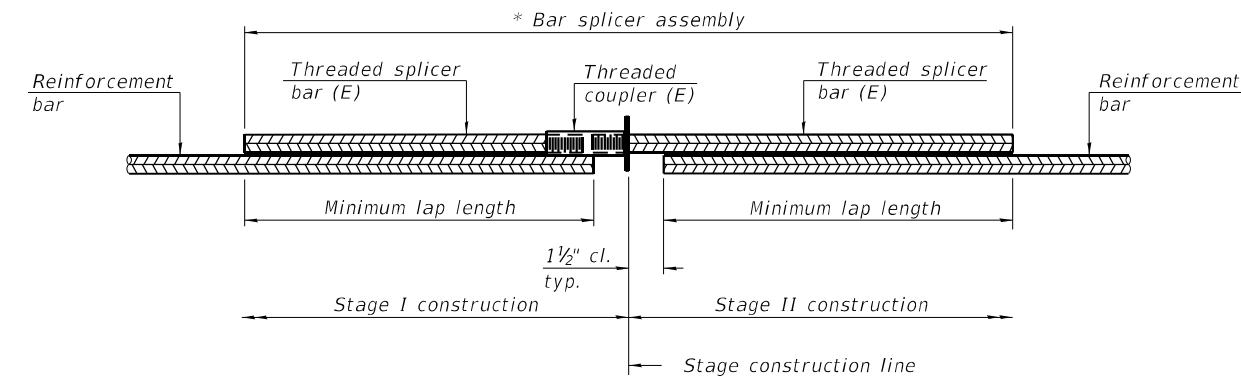
- Notes:
- ① Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
  - ② Approach footing concrete shall be paid for as Concrete Structures.
  - ③ The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
  - ④ Cost of excavation for approach footing included with Concrete Structures.
  - ⑤ Existing reinforcement extending into the removal area as shown shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during approach slab removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Approach Slab Removal.
  - ⑥ Cost included with Concrete Superstructure (Approach Slab).

**TWO APPROACHES**  
**BILL OF MATERIAL**

| Bar                                     | No. | Size | Length  | Shape  |
|-----------------------------------------|-----|------|---------|--------|
| a7(E)                                   | 92  | #5   | 10'-9"  | ————   |
| a8(E)                                   | 92  | #5   | 12'-9"  | ————   |
| a9(E)                                   | 120 | #8   | 10'-9"  | ————   |
| a10(E)                                  | 120 | #8   | 12'-9"  | ————   |
| b(E)                                    | 74  | #5   | 29'-8"  | ————   |
| b1(E)                                   | 116 | #9   | 29'-8"  | ————   |
| t(E)                                    | 104 | #4   | 9'-8"   | ————   |
| w(E)                                    | 80  | #5   | 10'-9"  | ————   |
| w1(E)                                   | 80  | #5   | 12'-9"  | ————   |
| Concrete Superstructure (Approach Slab) |     |      | Cu. Yd. | 66.7   |
| Concrete Structures                     |     |      | Cu. Yd. | 14.8   |
| Reinforcement Bars, Epoxy Coated        |     |      | Pound   | 26,410 |

(Sheet 2 of 2)

|                                                                                                                                                                           |              |  |               |           |                                                   |                                                        |  |                           |           |        |              |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|---------------|-----------|---------------------------------------------------|--------------------------------------------------------|--|---------------------------|-----------|--------|--------------|-----------|
|  <div>CIVIL DESIGN, INC.<br/>WBE   DBE<br/>EFFINGHAM, IL<br/>LICENSE #184.003222</div> | USER NAME =  |  | DESIGNED - NP | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | BRIDGE APPROACH SLAB DETAILS<br>STRUCTURE NO. 006-0101 |  | F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|                                                                                                                                                                           |              |  | CHECKED - SJN | REVISED - |                                                   |                                                        |  | 587                       | (140B)BRR | BUREAU | 37           | 27        |
|                                                                                                                                                                           | PLOT SCALE = |  | DRAWN - NP    | REVISED - |                                                   |                                                        |  | CONTRACT NO. 66P34        |           |        |              |           |
|                                                                                                                                                                           | PLOT DATE =  |  | CHECKED - SJN | REVISED - |                                                   | SHEET 8 OF 18 SHEETS                                   |  | ILLINOIS FED. AID PROJECT |           |        |              |           |



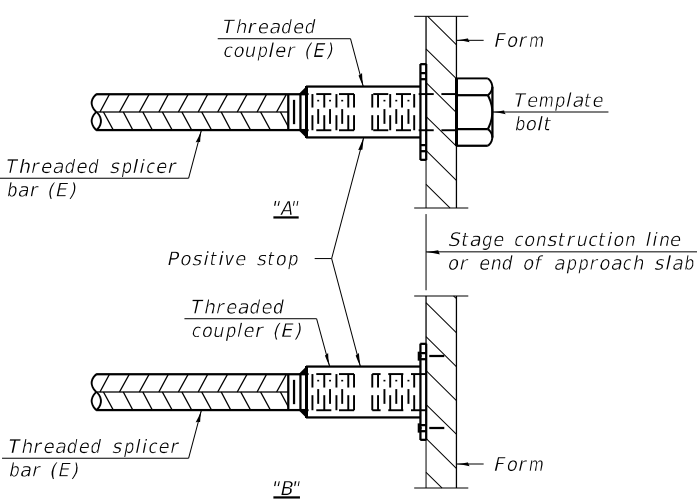
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

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 End              | #5       | 18                      | 3'-6"              |
| Approach End          | #6       | 8                       | 4'-0"              |
| Approach Footing      | #5       | 80                      | 2'-4"              |
| Approach Slab, Top    | #5       | 92                      | 3'-1"              |
| Approach Slab, Bottom | #8       | 120                     | 4'-9"              |

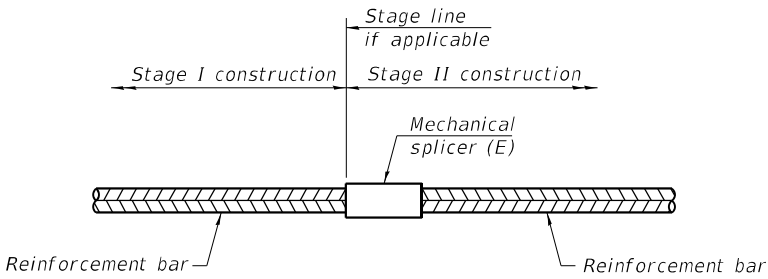


**INSTALLATION AND SETTING METHODS**

"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 |
|----------|----------|-------------------------|
|          |          |                         |
|          |          |                         |
|          |          |                         |
|          |          |                         |

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.

BSD-1

2-1-2023



CIVIL DESIGN, INC.

WBE | DBE

EFFINGHAM, IL

LICENSE #184.003222

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

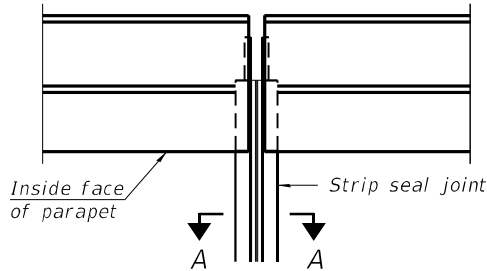
BAR SPLICERS ASSEMBLY AND MECH. SPLICER DETAILS  
STRUCTURE NO. 006-0101

SHEET 9 OF 18 SHEETS

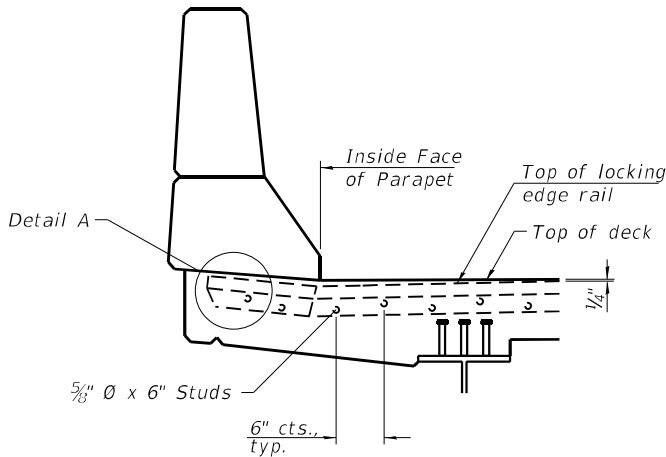
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 28        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



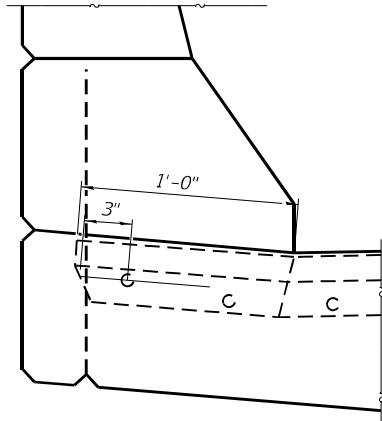
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PLAN AT PARAPET

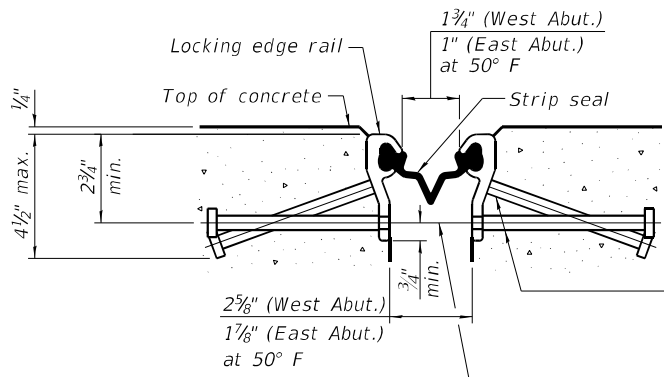


SECTION AT PARAPET



DETAIL A

Notes:  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
The manufacturer's recommended installation methods shall be followed.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.  
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Prefomed Joint Strip Seal.  
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

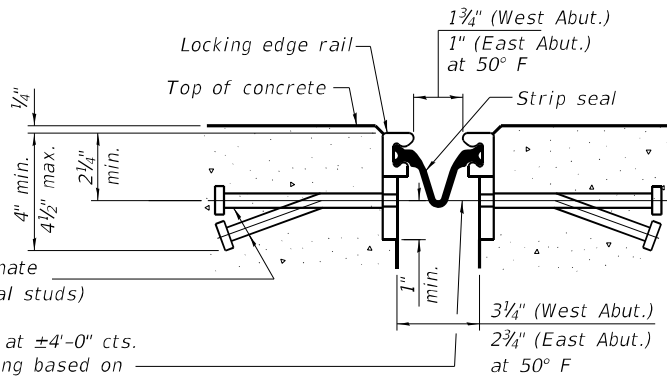


SHOWING ROLLED RAIL JOINT

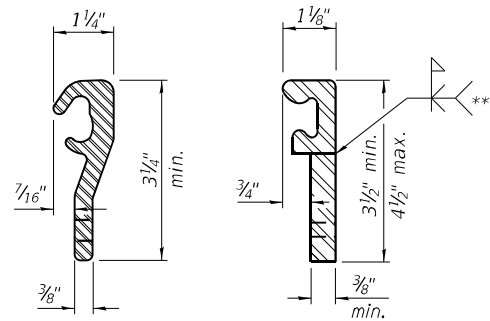
\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
3/8" Ø threaded rods in 1/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

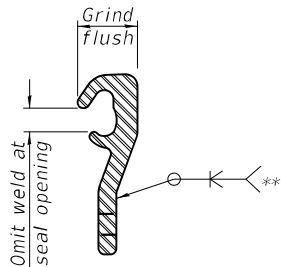


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.  
Rolled rail shown, welded rail similar.

BILL OF MATERIAL

| Item                      | Unit | Total |
|---------------------------|------|-------|
| Prefomed Joint Strip Seal | Foot | 68    |



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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PERFORMED JOINT STRIP SEAL  
STRUCTURE NO. 006-0101

SHEET 10 OF 18 SHEETS

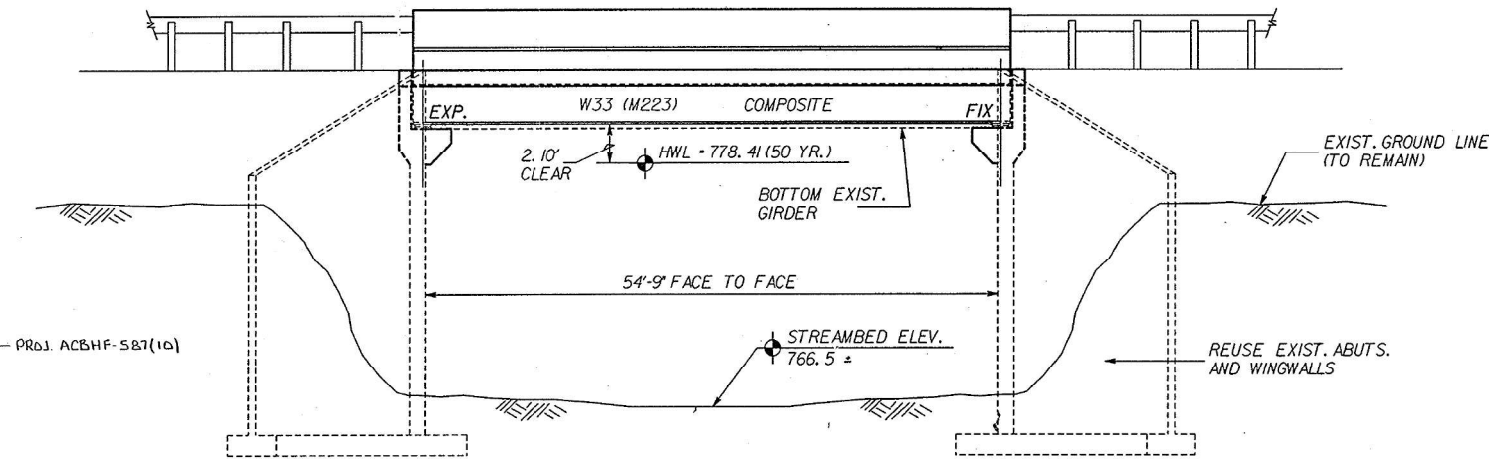
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 29        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

B.M. CHISELED SQUARE AT SOUTH-EAST  
COR. OF EXIST. BRIDGE, STA. 626+88.9  
ELEV. 784.63

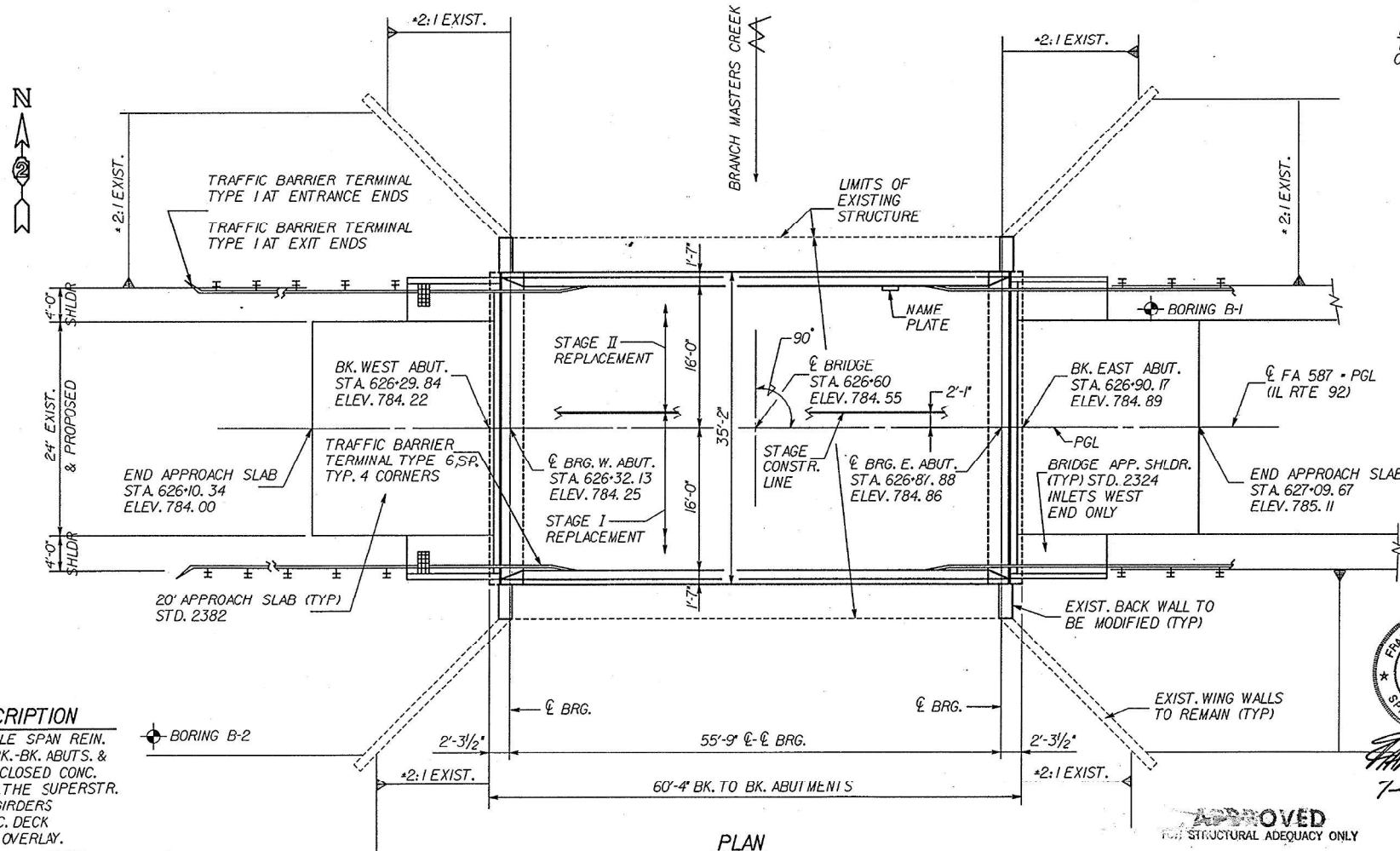
B.M. CHISELED SQUARE AT CEMETARY  
ENTRANCE AT FENCE, WEST SIDE  
ELEV. 802.28  
(CEMETARY EAST OF BRIDGE  
APPROXIMATELY 1/4 MILE)

STATION 626+60.00  
BUILT 199 BY  
STATE OF ILLINOIS  
FA 587 SEC. 140-BR2  
LOADING HS-20  
STR. NO. 006-0101

NAME PLATE  
(SEE STD. 2113)



ELEVATION



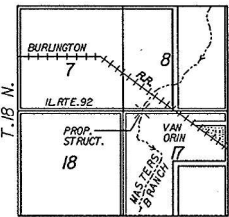
PLAN

EXIST. BRIDGE DESCRIPTION

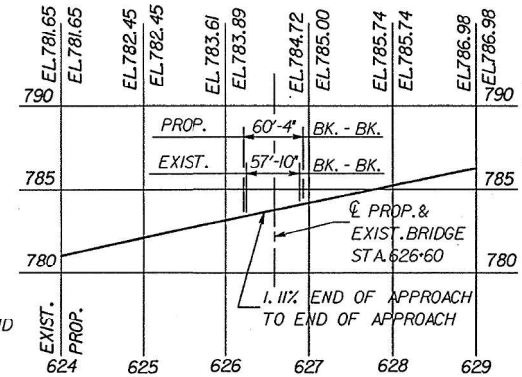
THE EXIST. BRIDGE IS A SINGLE SPAN REIN. CONC. BRIDGE APPROX. 57'-10" BK. BK. ABUTS. & 43'-4" WIDE. THE BRIDGE HAS CLOSED CONC. ABUTS. BRG. ON TIMBER PILES. THE SUPERSTR. CONSISTS OF 8 REIN. CONC. GIRDERS SUPPORTING A 7 1/2" THICK CONC. DECK THAT HAS AN ASPHALT CONC. OVERLAY. SUPERSTRUCTURE REMOVAL/REPLACEMENT

EXIST. STRUCTURE NO. 006-0101

| ROUTE NO.           | SEC.     | COUNTY         | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|----------------|--------------|-----------|
| FA 587              | 140-BR2  | BUREAU         | 24           | 8         |
| STA. 623+30         |          | TO STA. 629+90 |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | PROJECT        |              |           |



LOCATION MAP



PROFILE EXIST. & PROP. IL RTE. 92

NOTE: MATCH EXIST. PROFILE GRADE @ END OF BIT. TAPERS

CONSTRUCTION SPECIFICATIONS

STATE OF ILLINOIS STANDARD SPECIFICATIONS  
FOR ROAD AND BRIDGE CONSTRUCTION  
ADOPTED JULY 1, 1989

STRUCTURE NUMBER

006-0101 (EXIST)

DESIGN STRESSES

f'c = 3,500 psi

fy = 60,000 psi (REINFORCEMENT)

Fy = 50,000 psi (STRUCTURAL AASHTO  
M223 GRADE 50)

DESIGN LOADING = HS 20-44 (NEW CONSTR.)

DESIGN SPECIFICATIONS - 1989 AASHTO

25 psf ALLOWANCE FOR FUTURE WEARING SURFACE



7-13-20

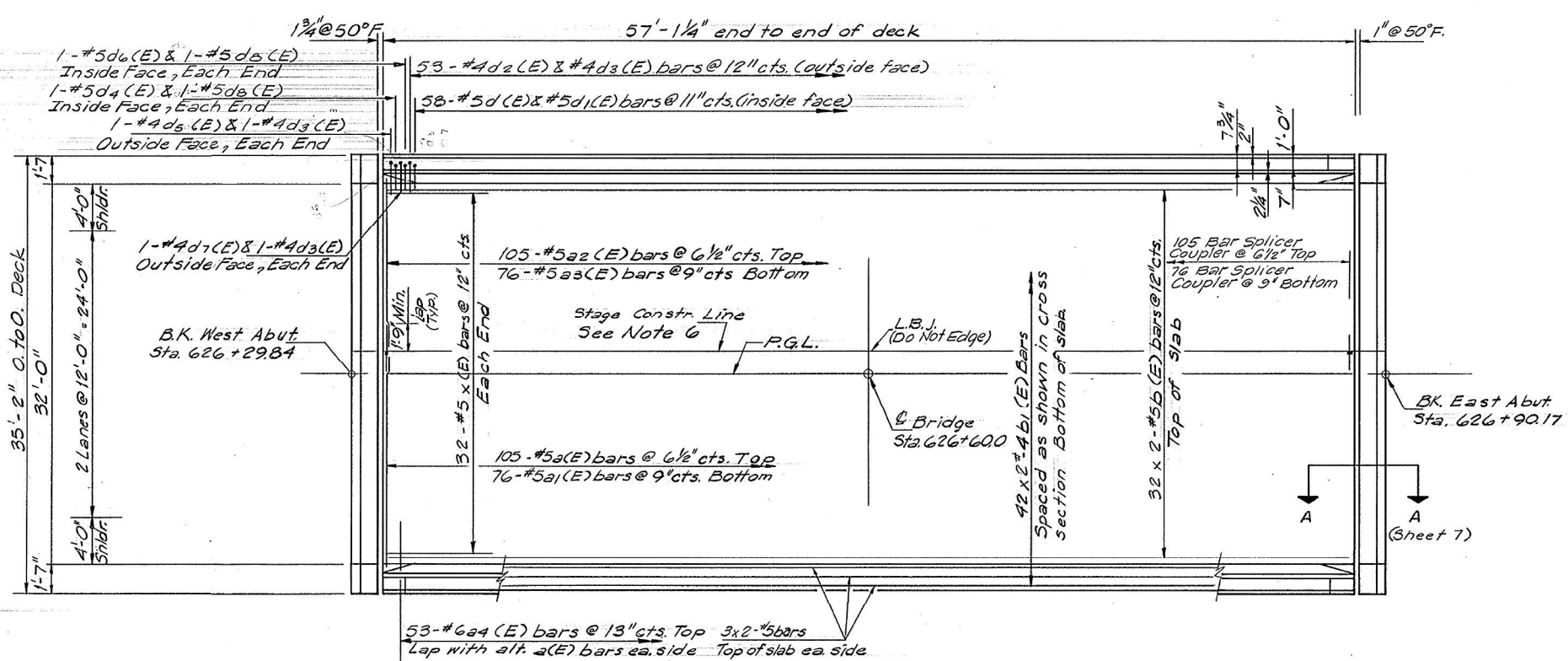
APPROVED  
STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
Engineer of Bridges and Structures

| REVISIONS   |     |      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION                                                                                                                                              |                    |
|-------------|-----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| NO.         | BY  | DATE | BUREAU COUNTY<br>FA 587 (IL RT. 92) OVER BRANCH OF MASTERS CREEK<br>SECTION 140-BR2<br>STA. 626+60 SN 006-0101<br>GENERAL PLAN AND ELEVATION                                                   |                    |
| DESIGNED BY | FJP |      | <br>CRAWFORD MURPHY & TULLY, INC.<br>CONSULTING ENGINEERS<br>MEMPHIS, TN & BIRMINGHAM, AL & ST. LOUIS, MO | SCALE NONE         |
| DRAWN BY    | GLD |      |                                                                                                                                                                                                | JOB NO.<br>8766-04 |
| CHECKED BY  | FJP |      |                                                                                                                                                                                                | DATE 1-89          |
| APPROVED BY | FJP |      |                                                                                                                                                                                                | SHEET OF SHEETS    |

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

| ROUTE NO.           | SFC.   | COUNTY           | TOTAL SHEETS | SHEET NO. | Sheet No. 6 of 14 Sheets |
|---------------------|--------|------------------|--------------|-----------|--------------------------|
| FA 587              | 140BR2 | BUREAU           | 24           | 13        |                          |
| STA. 623+30         |        | TO STA. 629+90   |              |           |                          |
| FED. ROAD DIST. NO. |        | ILLINOIS PROJECT |              |           |                          |

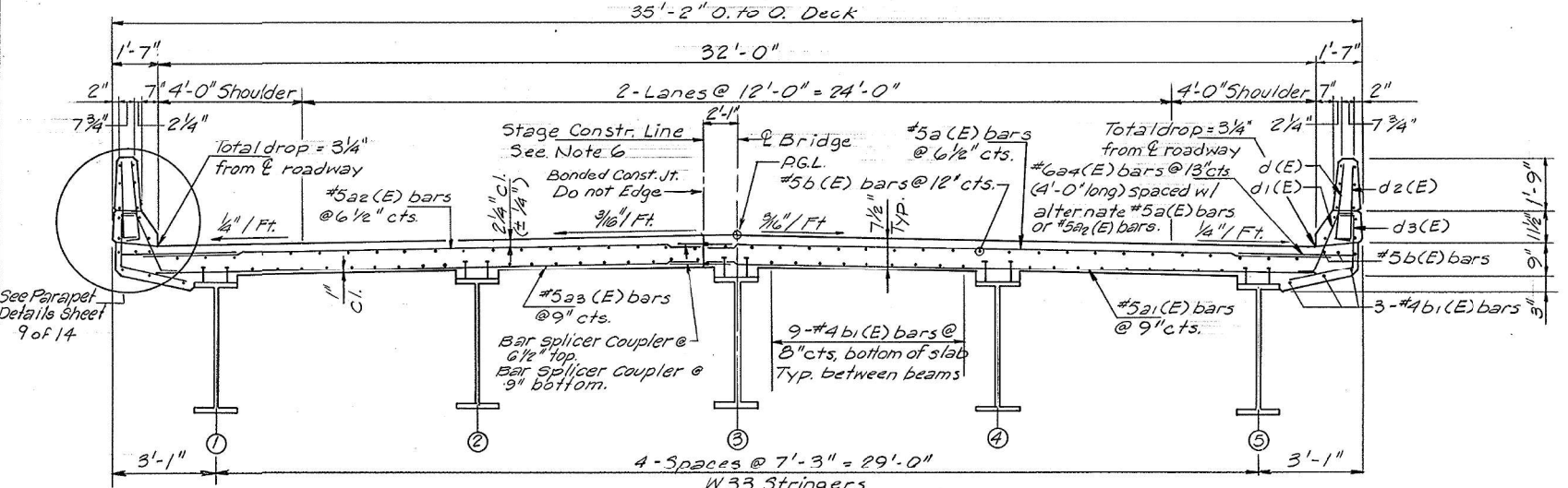


DECK PLAN

| MINIMUM BAR LAPS |         |
|------------------|---------|
| #4 Bar           | = 1'-5" |
| #5 Bar           | = 1'-9" |
| #6 Bar           | = 2'-1" |
| #8 Bar           | = 3'-8" |

NOTES:

- See Sheet No. 9 for superstructure details and Bill of Materials.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bars indicated thus 20 #5 etc. indicates 20 lines of bars with 3 lengths per line.
- See Sheet No. 9 for parapet reinforcement.
- See Sheet No. 9 for parapet elevations.
- Bar splicers (E) shall be tied with double the number of ties normally used.
- For Bar Splicer Coupler, see sheet 8.



TYPICAL CROSS SECTION

| REVISIONS   |        |      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION                                                                                                                                                        |                 |
|-------------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| NO.         | BY     | DATE | BUREAU COUNTY<br>FA 587 (IL. RT. 92) OVER BRANCH OF MASTERS CREEK<br>SECTION 140-BR 2<br>STA. 626+60 SN 006-0101<br>SUPERSTRUCTURE                                                                       |                 |
| DESIGNED BY | J.J.F. |      |  CMT<br>CRAWFORD, MURPHY & TILLY, INC.<br>CONSULTING ENGINEERS<br>SPRINGFIELD, ILL. ■ AURORA, ILL. ■ ST. LOUIS, MO. |                 |
| DRAWN BY    | SPM    |      |                                                                                                                                                                                                          |                 |
| CHECKED BY  | F.J.P. |      |                                                                                                                                                                                                          |                 |
| APPROVED BY | F.J.P. |      |                                                                                                                                                                                                          |                 |
|             |        |      | SCALE NONE                                                                                                                                                                                               | JOB NO. 8766-04 |
|             |        |      | DATE 3-90                                                                                                                                                                                                |                 |
|             |        |      | SHEET OF SHEETS                                                                                                                                                                                          |                 |

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

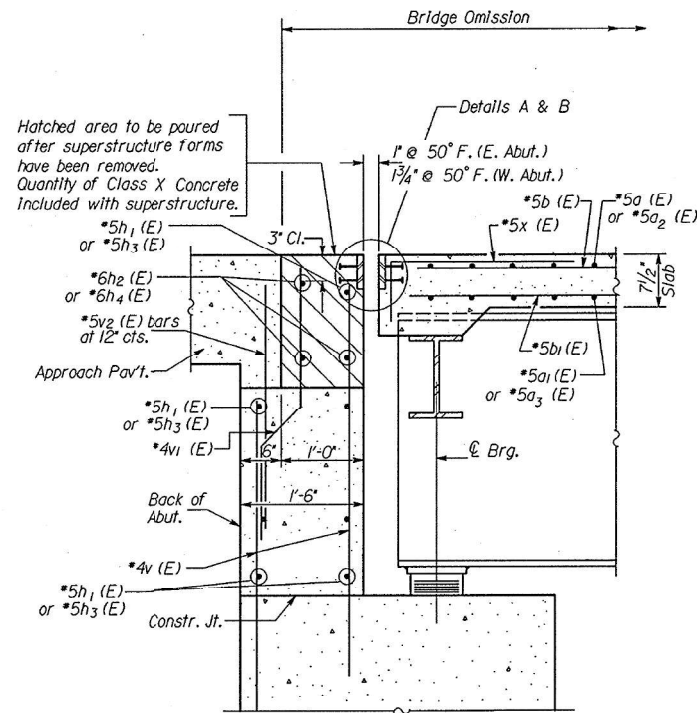
EXISTING PLAN - SUPERSTRUCTURE  
STRUCTURE NO. 006-0101

SHEET 12 OF 18 SHEETS

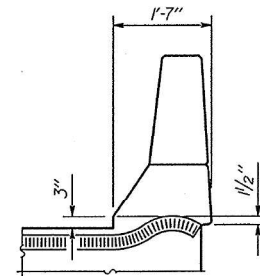
| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 31        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



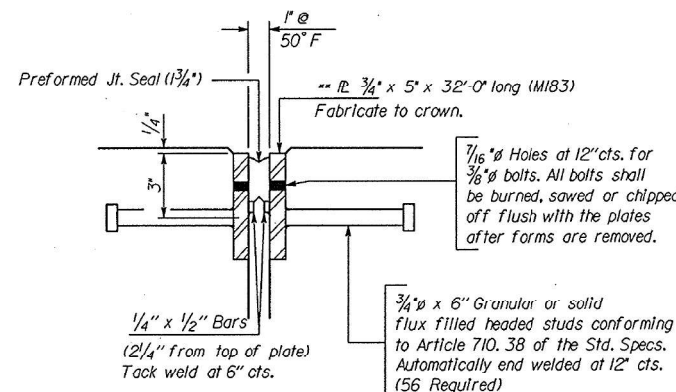
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SECTION A - A



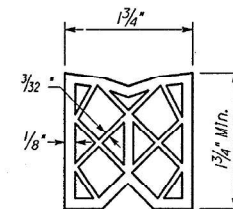
END TREATMENT



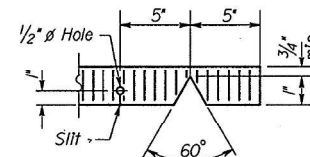
DETAIL A

\*\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 1/16". Seal space with Silicone Sealant suitable for Structural Steel.

NOTE: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel.

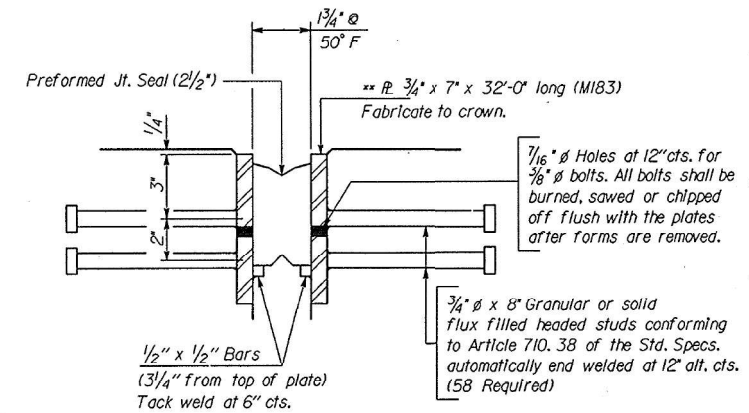


PREFORMED JOINT SEAL (1 3/4") E. Abut.



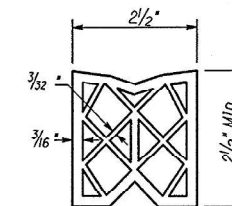
SEAL CUT-OUT

NOTE: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for structural steel.

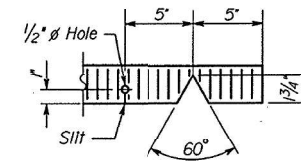


DETAIL B

\*\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 1/16". Seal space with Silicone Sealant suitable for Structural Steel.



PREFORMED JOINT SEAL (2 1/2") W. Abut.



SEAL CUT-OUT

| REVISIONS   |     |      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION                                                                                                                                  |                 |
|-------------|-----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| NO.         | BY  | DATE | BUREAU COUNTY<br>FA587 (IL RT. 92) OVER BRANCH OF MASTERS CREEK<br>SECTION 140-BR2<br>STA. 626+60 SN 006-0101<br>PREFORMED JOINT SEAL DETAILS                                      |                 |
| DESIGNED BY | JJF |      | <br>CRAWFORD MURPHY & TILLY, INC.<br>CONSULTING ENGINEERS<br>SPRINGFIELD, ILLINOIS 62766-0400 | SCALE NONE      |
| DRAWN BY    | GLD |      |                                                                                                                                                                                    | JOB NO. 8766-04 |
| CHECKED BY  | FJP |      |                                                                                                                                                                                    | DATE 3/90       |
| APPROVED BY | FJP |      |                                                                                                                                                                                    | SHEET OF SHEETS |

D:\8766030\NPJS.MAS



USER NAME =  
PLOT SCALE =  
PLOT DATE =

DESIGNED -  
CHECKED -  
DRAWN -  
CHECKED -

REVISED -  
REVISED -  
REVISED -  
REVISED -

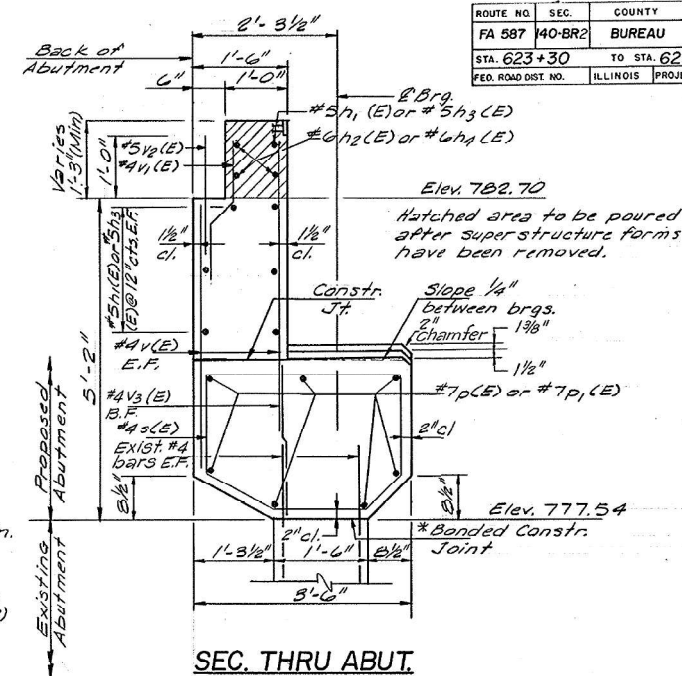
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - PREFORMED JOINT SEAL DETAILS  
STRUCTURE NO. 006-0101

SHEET 14 OF 18 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 33        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |





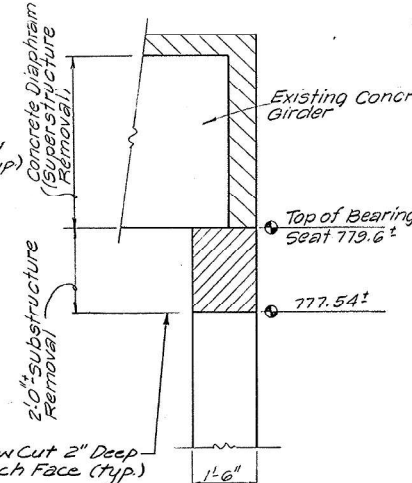
SEC. THRU ABUT.

NOTES:

- Expansion bolts shall consist of self drilling expansion shields and  $3/4"$   $\phi$  hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum certified proof load = 4080 lbs.

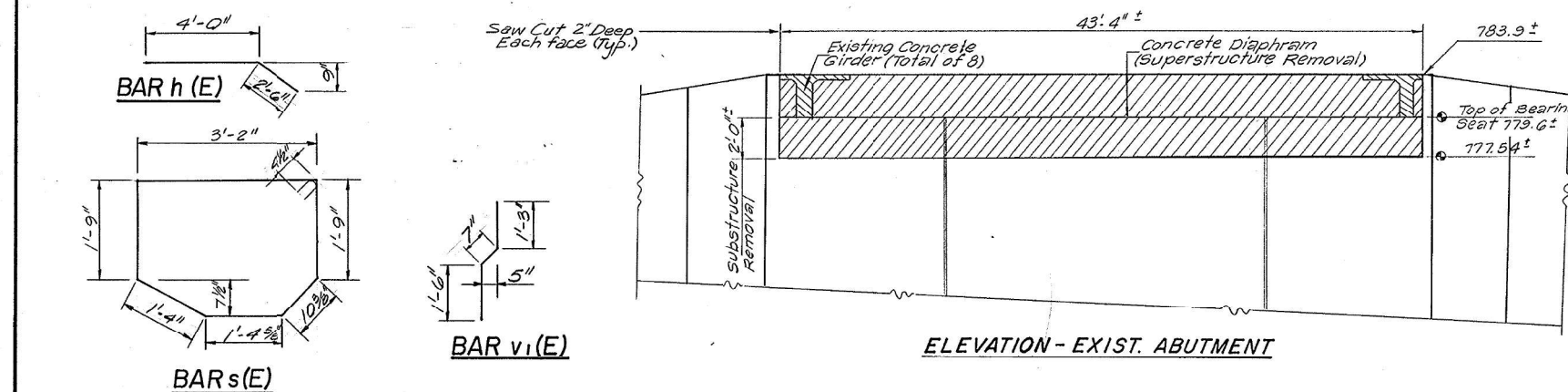
\*Bonded Construction Joints shall be in accordance with Article 504.13 (a) 2 of the Standard Specifications.

|      |                                                                                                                                                                                                         |                   |         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|
| IONS | STATE OF ILLINOIS                                                                                                                                                                                       |                   |         |
| DATE | DEPARTMENT OF TRANSPORTATION                                                                                                                                                                            |                   |         |
|      | BUREAU COUNTY                                                                                                                                                                                           |                   |         |
|      | FA 587 (IL. RT. 92) OVER BRANCH OF MASTERS CREEK                                                                                                                                                        |                   |         |
|      | SECTION 140-BR 2:                                                                                                                                                                                       |                   |         |
|      | STA. 626+60                                                                                                                                                                                             | SN 006-0101       |         |
|      | WEST ABUTMENT                                                                                                                                                                                           |                   |         |
| JF   | <br><b>CMT</b><br>CRAWFORD, MURPHY & TILLY, INC.<br>CONSULTING ENGINEERS<br>SPRINGFIELD, ■ ALTONA, ■ ST. LOUIS, MO | SCALE <i>NONE</i> | JOB NO. |
| PM   |                                                                                                                                                                                                         | DATE 3-'90        | 8766-04 |
| JP   |                                                                                                                                                                                                         | SHEET             | OF      |
| JP   |                                                                                                                                                                                                         |                   | SHEETS  |



SECTION-EXIST. ABUTMENT

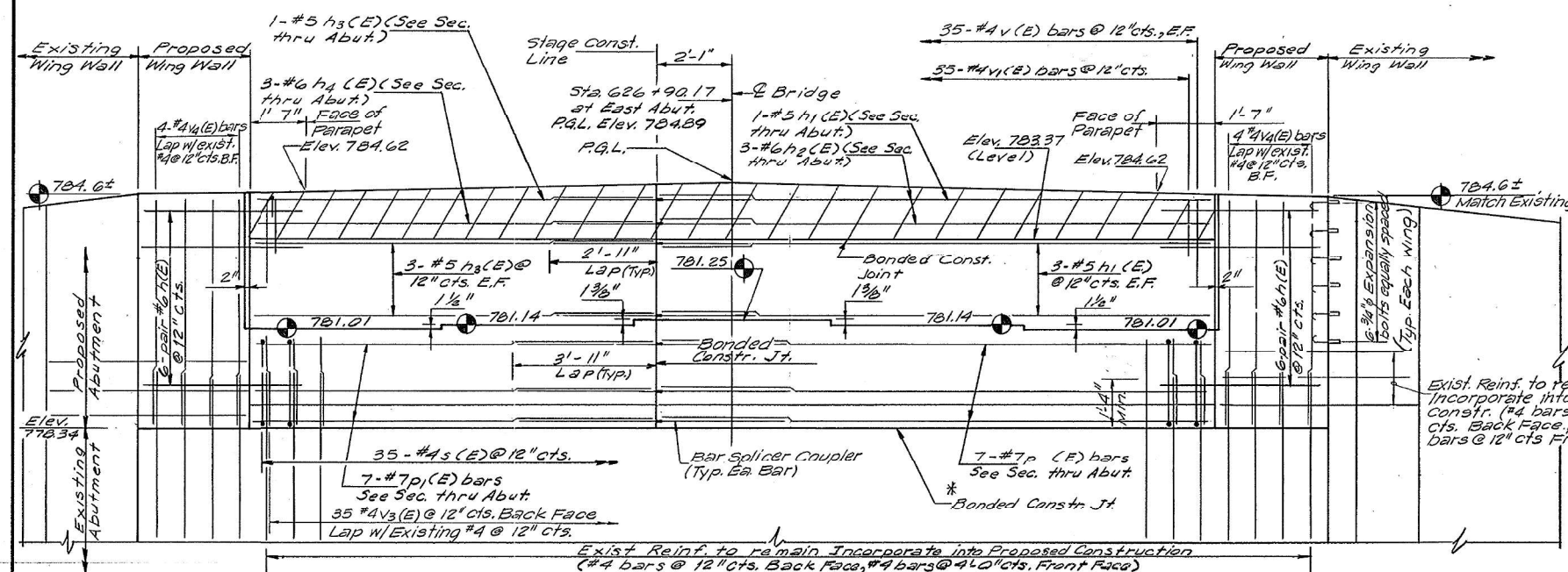
Note: Cost of Bar  
Splicers is  
Incidental to  
Reinforcement  
Bars.  
Epoxy Coated



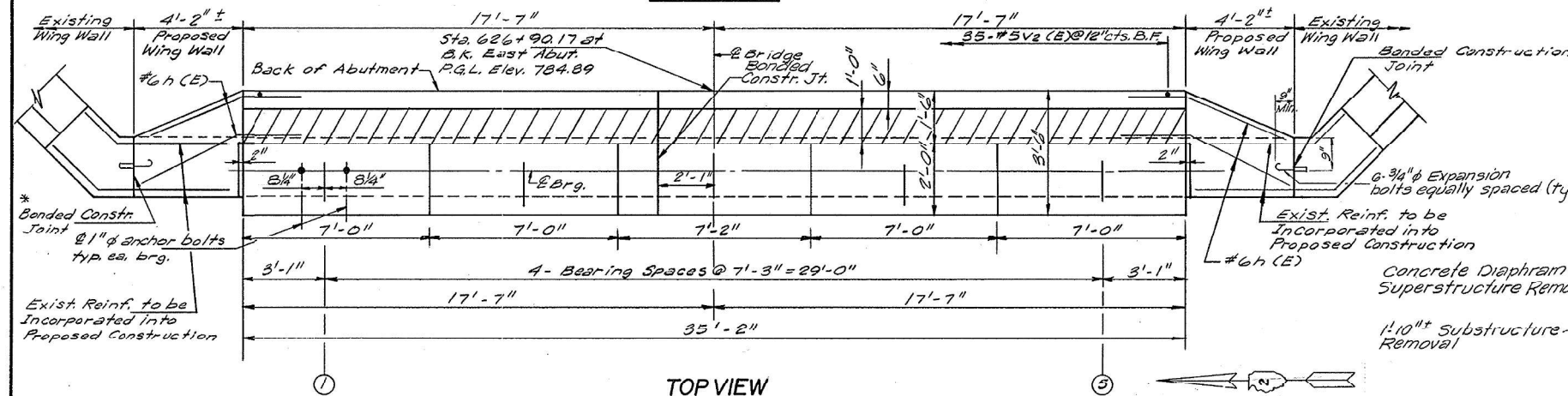
ELEVATION - EXIST. ABUTMENT

| ROUTE NO.           | SEC.    | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------|--------------|-----------|
| FA 587              | 140-BR2 | BUREAU           | 24           | 21        |
| STA. 623+30         |         | TO STA. 629+90   |              |           |
| FED. ROAD DIST. NO. |         | ILLINOIS PROJECT |              |           |

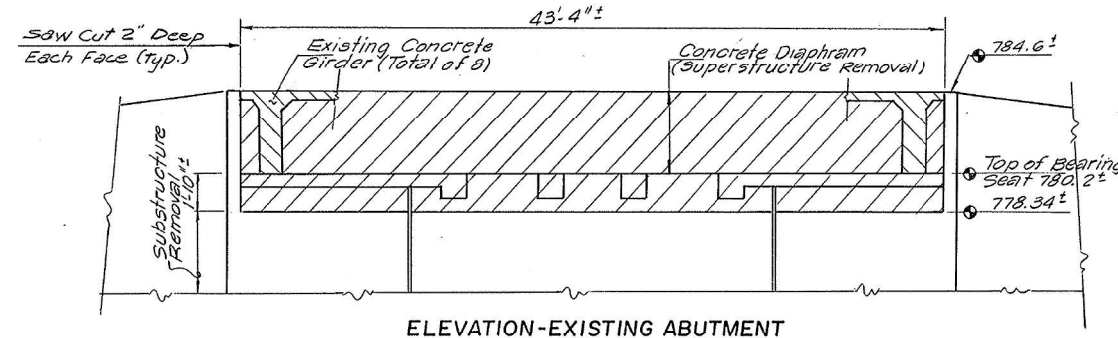
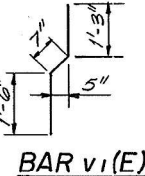
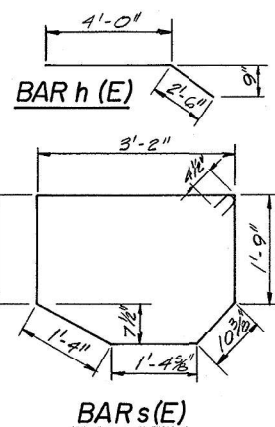
Sheet No. 14  
of 14 Sheets



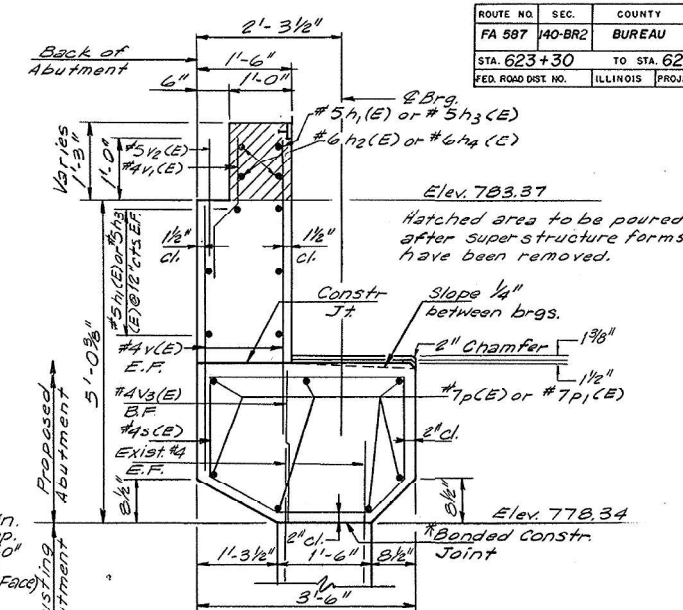
ELEVATION



TOP VIEW



ELEVATION-EXISTING ABUTMENT



SEC. THRU ABUT.

NOTES:  
• Expansion bolts shall consist of self drilling expansion shields and  $\frac{3}{4}$ " hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum certified proof load = 4080 lbs.  
• Bonded construction joint shall be in accordance with Article 504.13 (a) 2 of the Standard Specifications.

EAST ABUT. BILL OF MATERIAL

| Bar                                        | No. | Size | Length   | Shape |
|--------------------------------------------|-----|------|----------|-------|
| h (E)                                      | 24  | #6   | 6'-6"    |       |
| h1 (E)                                     | 7   | #5   | 22'-4"   |       |
| h2 (E)                                     | 3   | #6   | 22'-4"   |       |
| h3 (E)                                     | 7   | #5   | 15'-3"   |       |
| h4 (E)                                     | 3   | #6   | 15'-3"   |       |
| p (E)                                      | 7   | #7   | 23'-4"   |       |
| p1 (E)                                     | 7   | #7   | 15'-3"   |       |
| s (E)                                      | 35  | #4   | 11'-0"   |       |
| v (E)                                      | 35  | #4   | 5'-0"    |       |
| v1 (E)                                     | 35  | #4   | 3'-4"    |       |
| v2 (E)                                     | 35  | #5   | 3'-0"    |       |
| v3 (E)                                     | 35  | #4   | 2'-5"    |       |
| v4 (E)                                     | 8   | #4   | 6'-0"    |       |
| Class X Concrete                           |     |      | Cu. Yds. | 20.1  |
| Concrete Removal                           |     |      | Lbs.     | 4.4   |
| Reinforcement Bars, Epoxy Coated           |     |      | Lbs.     | 1900  |
| Structure Excavation                       |     |      | Cu. Yds. | 100   |
| Expansion Bolts ( $\frac{3}{4}$ " $\phi$ ) |     |      | Each     | 12    |

SECTION-EXIST. ABUTMENT

Note: Cost of Bar Splicers is incidental to Reinforcement Bars Epoxy Coated.

|             |       |      |                                                                                                                                                                                                                      |            |         |
|-------------|-------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
| REVISIONS   |       |      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION                                                                                                                                                                    |            |         |
| NO.         | BY    | DATE | BUREAU COUNTY<br>FA 587 (IL RT. 92.) OVER BRANCH OF MASTERS CREEK<br>SECTION 140-BR2<br>STA. 626+60 SN 006-0101<br>EAST ABUTMENT                                                                                     |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
|             |       |      |                                                                                                                                                                                                                      |            |         |
| DESIGNED BY | J J F |      | <br><b>CMT</b><br>CRAWFORD, MURPHY & TILLY, INC.<br>CONSULTING ENGINEERS<br>SPRINGFIELD, ILL. ■ ALHAMBRA, ILL. ■ ST. LOUIS, MO. | SCALE NONE | JOB NO. |
| DRAWN BY    | SPM   |      |                                                                                                                                                                                                                      | DATE 3-'90 | 8766-04 |
| CHECKED BY  | F J P |      |                                                                                                                                                                                                                      | SHEET      | OF      |
| APPROVED BY | F J P |      |                                                                                                                                                                                                                      | SHEETS     |         |



CIVIL DESIGN, INC.  
WBE DBE  
EFFINGHAM, IL  
LICENSE #184.003222

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - EAST ABUTMENT  
STRUCTURE NO. 006-0101

SHEET 16 OF 18 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| 587                       | (140B)BRR | BUREAU | 37           | 35        |
| CONTRACT NO. 66P34        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



**DIVISION OF HIGHWAYS**

**ELEVATION**  
SHOWING REINF. IN FRONT FACE

**SEC THRU WING @ JOINT**

**SEC. A-A**

**Notes:**

- 8" bars @ 4'-6" cts.
- 10" bars @ 4'-6" cts.
- 12" bars @ 4'-6" cts.
- 14" bars @ 4'-6" cts.
- 16" bars @ 4'-6" cts.
- 18" bars @ 4'-6" cts.
- 20" bars @ 4'-6" cts.
- 22" bars @ 4'-6" cts.
- 24" bars @ 4'-6" cts.
- 26" bars @ 4'-6" cts.
- 28" bars @ 4'-6" cts.
- 30" bars @ 4'-6" cts.
- 32" bars @ 4'-6" cts.
- 34" bars @ 4'-6" cts.
- 36" bars @ 4'-6" cts.
- 38" bars @ 4'-6" cts.
- 40" bars @ 4'-6" cts.
- 42" bars @ 4'-6" cts.
- 44" bars @ 4'-6" cts.
- 46" bars @ 4'-6" cts.
- 48" bars @ 4'-6" cts.
- 50" bars @ 4'-6" cts.
- 52" bars @ 4'-6" cts.
- 54" bars @ 4'-6" cts.
- 56" bars @ 4'-6" cts.
- 58" bars @ 4'-6" cts.
- 60" bars @ 4'-6" cts.
- 62" bars @ 4'-6" cts.
- 64" bars @ 4'-6" cts.
- 66" bars @ 4'-6" cts.
- 68" bars @ 4'-6" cts.
- 70" bars @ 4'-6" cts.
- 72" bars @ 4'-6" cts.
- 74" bars @ 4'-6" cts.
- 76" bars @ 4'-6" cts.
- 78" bars @ 4'-6" cts.
- 80" bars @ 4'-6" cts.
- 82" bars @ 4'-6" cts.
- 84" bars @ 4'-6" cts.
- 86" bars @ 4'-6" cts.
- 88" bars @ 4'-6" cts.
- 90" bars @ 4'-6" cts.
- 92" bars @ 4'-6" cts.
- 94" bars @ 4'-6" cts.
- 96" bars @ 4'-6" cts.
- 98" bars @ 4'-6" cts.
- 100" bars @ 4'-6" cts.

| BAR            | NO. | SIZE | LENGTH | SHAPE |
|----------------|-----|------|--------|-------|
| V-1            | 32  | 2"φ  | 8'-0"  | _____ |
| V <sub>1</sub> | 14  | 2"φ  | 11'-0" | _____ |
| V <sub>2</sub> | 6   | 2"φ  | 11'-9" | _____ |
| V <sub>3</sub> | 20  | 2"φ  | 15'-9" | _____ |
| V <sub>4</sub> | 28  | 2"φ  | 11'-6" | _____ |
| V <sub>5</sub> | 40  | 2"φ  | 9'-0"  | _____ |
| V <sub>6</sub> | 20  | 2"φ  | 1'-3"  | _____ |

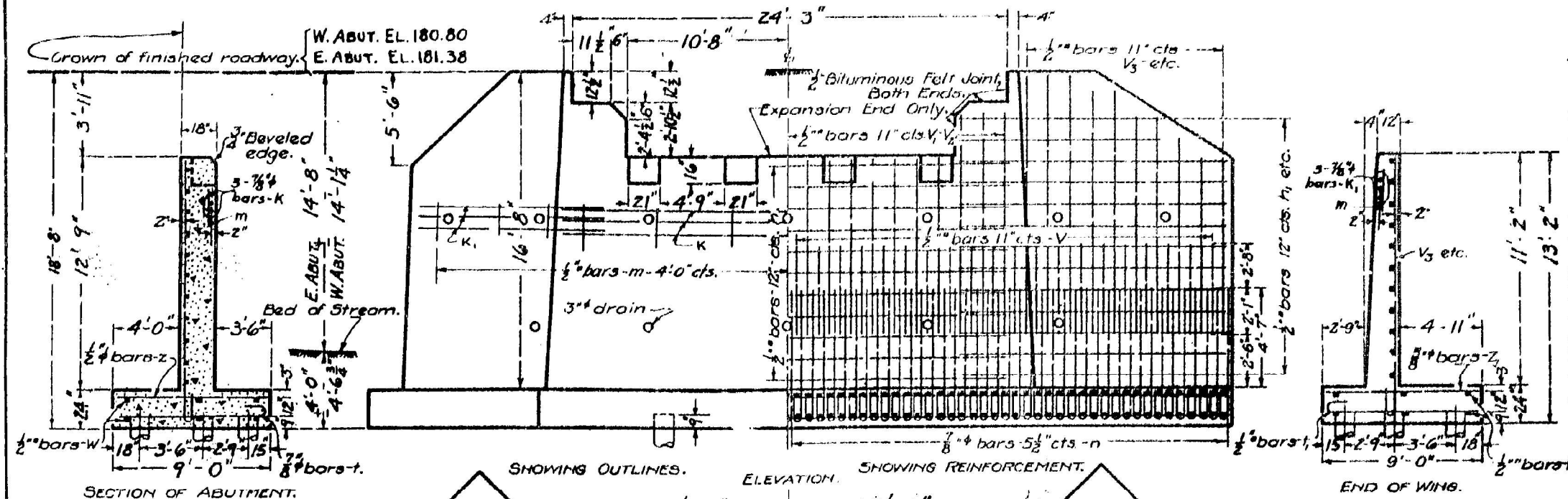
|                                     |                                |
|-------------------------------------|--------------------------------|
| DESIGNED <i>Carl E. Thurman</i>     | 8-15-194                       |
| CHECKED <i>Seymour C. Zimmerman</i> | EXAMINED <i>W. H. Kunkel</i>   |
| DRAWN <i>CET</i>                    | PASSED <i>W. H. Kunkel</i>     |
| CHECKED <i>S.C.Z.</i>               | APPROVED <i>C. H. Hoffmann</i> |

BARS 214

PROJ F-19 (10)  
(SBI/RI 92) ~~FBI/RI 92~~ SEC. 140BY  
BUREAU COUNTY  
STA. 626+60



Sheet No. 2  
2 Sheets.



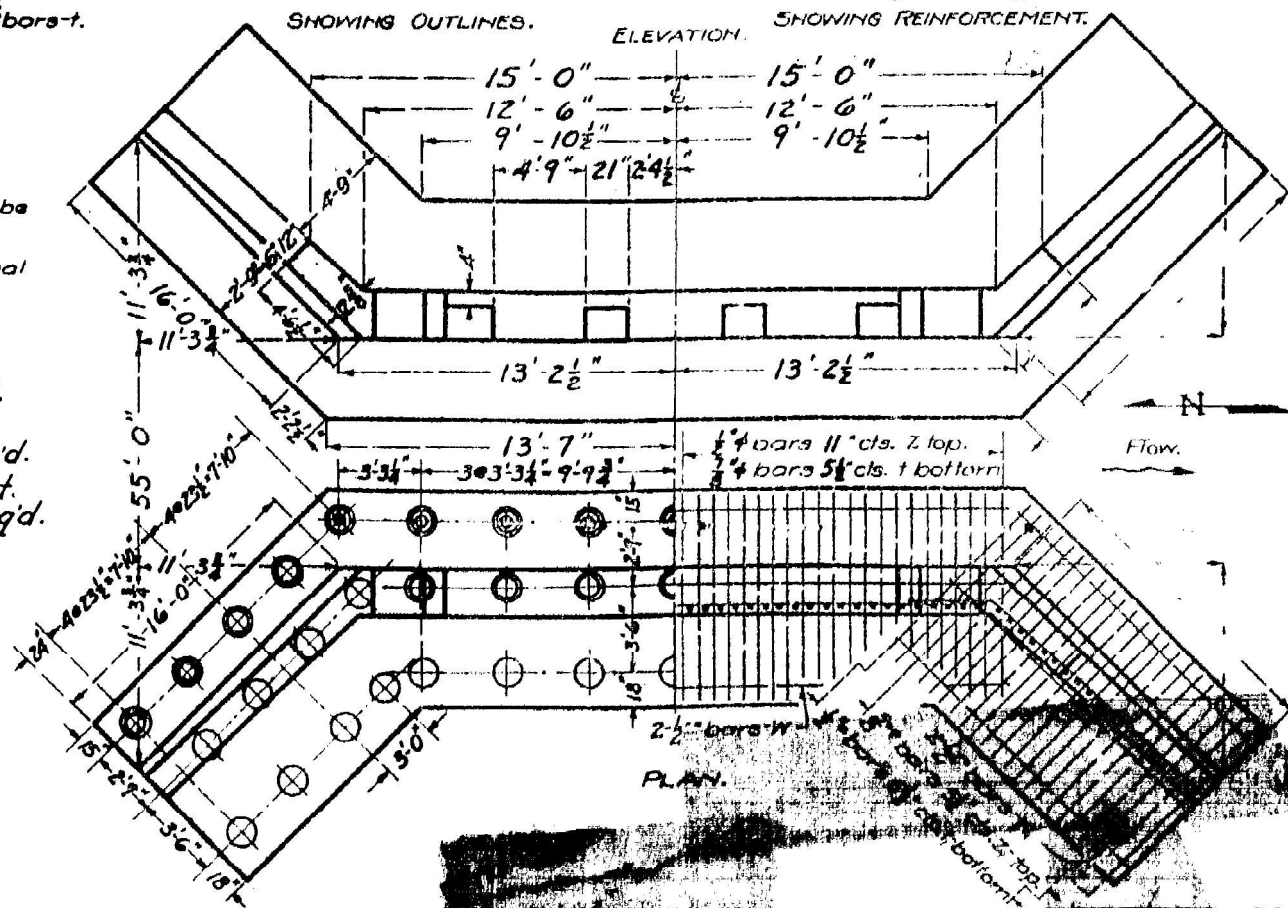
Class X concrete shall be used throughout.

All reinforcing steel shall be securely wired in place before concrete is poured.

-  17 Ton Untr. Piles. Est.  
Length = 20 ft. 18 Req'd.  
 14 Ton Untr. Piles. Est.  
Length = 20 ft. 30 Req'd.  
 10 Ton Untr. Piles. Est.  
Length = 20 ft. 46 Req'd.

|          |                             |
|----------|-----------------------------|
| STANDARD | COMPUTED -- C. C. Wood      |
|          | CHECKED -- H. H. Davis      |
|          | DRAWN -- H. H. Davis        |
|          | CHECKED -- C. C. W.         |
| SPECIAL  | ASSEMBLED -- M. P. S. PERAK |
|          | CHECKED -- H. H. Davis      |

EXAMINED 2-26-1932  
J. F. Bunch  
 PASSED By J. F. Bunch  
 APPROVED By J. F. Bunch



| BILL OF MATERIAL. |     |             |        |
|-------------------|-----|-------------|--------|
| Bore              | No. | Size        | Length |
| V                 | 122 | 12"         | 4'-0"  |
| V <sub>1</sub>    | 46  | "           | 10'-0" |
| V <sub>2</sub>    | 8   | "           | 13'-0" |
| V <sub>3</sub>    | 20  | "           | 13'-6" |
| V <sub>4</sub>    | 16  | "           | 12'-0" |
| V <sub>5</sub>    | 16  | "           | 10'-6" |
| V <sub>6</sub>    | 16  | "           | 9'-0"  |
| H                 | 52  | 1 1/2"      | 13'-6" |
| H <sub>1</sub>    | 48  | "           | 17'-0" |
| H <sub>2</sub>    | 4   | "           | 13'-6" |
| H <sub>3</sub>    | 12  | "           | 9'-6"  |
| C                 | 244 | 3/8" x 1/2" | 7'-6"  |
| T                 | 120 | 1 1/4"      | 10'-0" |
| T <sub>1</sub>    | 160 | 1 1/2"      | 9'-6"  |
| Z                 | 56  | 1 1/2"      | 8'-4"  |
| Z <sub>1</sub>    | 136 | 3/4"        | 8'-9"  |
| K                 | 6   | 3/4"        | 25'-0" |
| K <sub>1</sub>    | 18  | 3/4"        | 19'-0" |
| M                 | 32  | 1 1/2"      | 2'-0"  |
| W                 | 24  | 12"         | 14'-6" |
| W <sub>1</sub>    | 24  | "           | 18'-0" |

Reinforcing Steel Lbs. 13.610  
Concrete Cu. Yds. 153.6

S.B.I. RT. 92 - SEC. 140-B  
BUREAU COUNTY  
STA. 626+60

1154