| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 1 |
| | ILLINOIS | CONTRACT NO. 63468 | | |

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

# PROPOSED
# HIGHWAY PLANS

## SHORT STREET OVER EAST BRANCH DUPAGE RIVER
## SECTION 03-00050-00-BR
## PROJECT BRM-8003 (676)
## BRIDGE REPLACEMENT
## DUPAGE COUNTY

**C-91-447-06**

**FOR INDEX OF SHEETS, SEE SHEET NO. 2**

### DESIGN DESIGNATION

LOCAL HIGHWAY, STREET

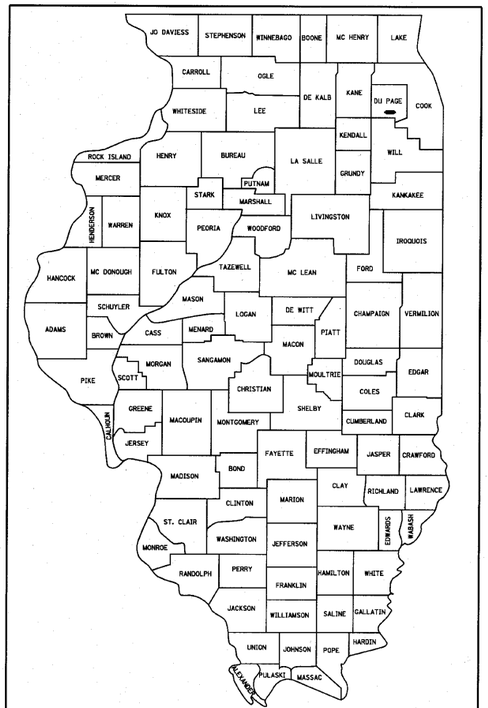
ADT SHORT STREET: 4,400 (2004)
ADT SHORT STREET: 5,000 (2030)

POSTED SPEED LIMIT SHORT STREET: 25 MPH
DESIGN SPEED LIMIT SHORT STREET: 30 MPH

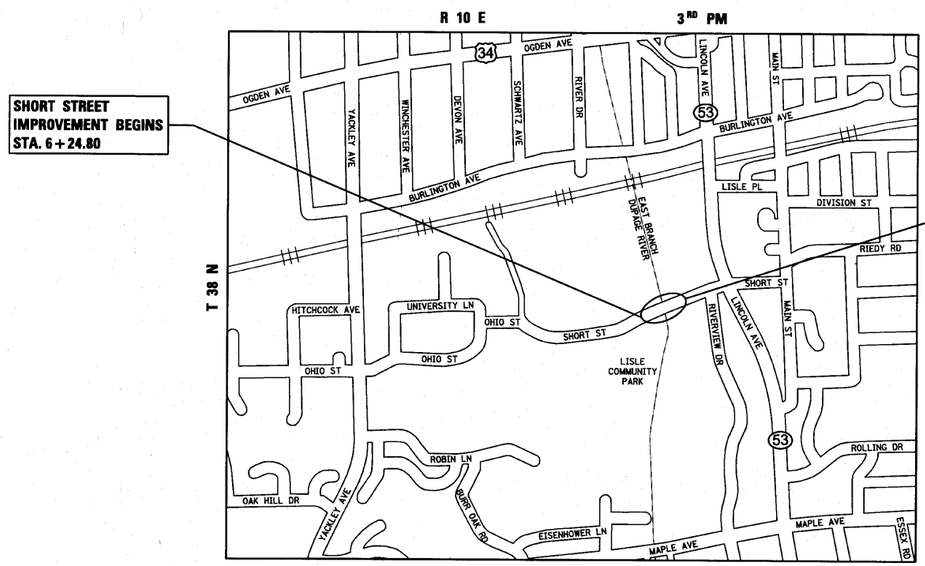
STRUCTURE NO. 022-6650 (EXISTING)
STRUCTURE NO. 022-6649 (PROPOSED)

### PROJECT LOCATED IN:

- VILLAGE OF LISLE




LOCATION OF SECTION INDICATED THUS: –

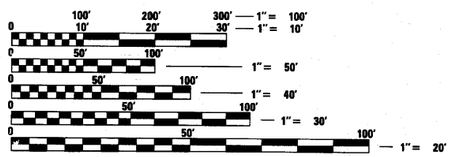



LISLE TOWNSHIP

### LOCATION MAP

MAP SCALE: 1" = 750'

GROSS AND NET LENGTH = 209.0 FT. = 0.040 MILE




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

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

**CONTRACT NO. 63468**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED July 29 20 10
VILLAGE OF LISLE

PASSED AUGUST 29 20 10
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW AUGUST 24, 20 10
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

CRAIG A. LUKOWICZ
062-041788
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

CONSULTING ENGINEERS SCIENTISTS & LAND SURVEYORS
Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com
ITASCA * CHICAGO * ALGONQUIN * LAKE GENEVA * SOUTH BEND * INDIANAPOLIS

CRAIG A. LUKOWICZ DATE 7/27/10
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-041788
MY LICENSE EXPIRES ON 11-30-11.

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

## INDEX OF SHEETS



## HIGHWAY STANDARDS

| | |
|---|---|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT REBARS |
| 280001-05 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420001-07 | PAVEMENT JOINTS |
| 420401-08 | BRIDGE APPROACH PAVEMENT CONNECTOR |
| 515001-03 | NAME PLATE FOR BRIDGES |
| 542301-02 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 601101-01 | CONCRETE HEADWALL FOR PIPE DRAIN |
| 602001-01 | CATCH BASIN TYPE A |
| 602011-01 | CATCH BASIN TYPE C |
| 604016-02 | FRAME AND GRATE TYPE 4 |
| 606001-04 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701801-04 | LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-02 | SIGN PANEL ERECTION DETAILS |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS |
| 729001-01 | APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) |
| 780001-02 | TYPICAL PAVEMENT MARKINGS |
| 781001-03 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |

## GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LISLE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON THE STATE OR VILLAGE OF LISLE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT AND THE VILLAGE.
4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
5. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
6. FOR STRUCTURAL GENERAL NOTES, SEE STRUCTURAL PLANS.
7. THE CONTRACTOR SHALL TRANSITION CURB AND GUTTERS AND SIDEWALKS TO MEET EXISTING AT THE LIMITS OF THE PROJECT. THE COST OF ANY TRANSITION SHALL BE INCLUDED IN THE COST OF THE RELATED ITEM OF CONSTRUCTION.
10. ALL COMPENSATORY STORAGE SHALL BE OPERATIONAL PRIOR TO PLACEMENT OF FILL, STRUCTURES, OR OTHER MATERIALS IN THE REGULATORY FLOOD PLAIN. GRADING IN SPECIAL MANAGEMENT AREAS SHALL BE DONE IN SUCH A MANNER THAT THE EXISTING FLOOD PLAIN STORAGE IS MAINTAINED AT ALL TIMES.
11. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS FROM THE SITE.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
13. COUNTY BENCHMARK NO. LI10002 LOCATED ON THE EXISTING BRIDGE SHALL NOT BE RE-SET AFTER THE BRIDGE REMOVAL. THE ENGINEER SHALL CONTACT MIKE SEMENEK OF DUPAGE COUNTY MAPS AND PLATS AT 630-407-5055 WHEN THE BENCHMARK HAS BEEN REMOVED.
14. CANOEIST/KAYAKERS: THE CONTRACTOR SHALL INSTALL ADVISORY SIGN FOR THE CANOEISTS/KAYAKERS AS SHOWN IN THE DETOUR PLAN. THE SIGN SHALL BE PLACED APPROXIMATELY 150 FT UPSTREAM OF THE CENTERLINE OF SHORT STREET BRIDGE OR AS DIRECTED BY THE ENGINEER. THE COST OF THE ABOVE WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.
15. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC, AS-BUILT OR OTHER EXISTING DOCUMENTS AND PLANS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-gennote.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES**

SCALE: NTS | SHEET NO. 2 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 2 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 80% FED 20% VILLAGE | 80% FED 20% VILLAGE | 100% VILLAGE | 100% VILLAGE | 80% FED 20% VILLAGE |
| | | | | ROADWAY | BRIDGE | LIGHTING | BEAUTIFICATION | TRAINEES |
| | | | | 0004 | 0011 | 0021 | 0031 | 0042 |
| | | | | URBAN | URBAN | URBAN | URBAN | URBAN |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 30 | 30 | | | | |
| 20101000 | TEMPORARY FENCE | FOOT | 100 | 100 | | | | |
| 20101100 | TREE TRUNK PROTECTION | EACH | 1 | 1 | | | | |
| 20101200 | TREE ROOT PRUNING | EACH | 1 | 1 | | | | |
| 20200100 | EARTH EXCAVATION | CU YD | 120 | 120 | | | | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 144 | 144 | | | | |
| 20300100 | CHANNEL EXCAVATION | CU YD | 208 | 208 | | | | |
| X2070304 | POROUS GRANULAR EMBANKMENT, SPECIAL | CU YD | 82 | | 82 | | | |
| 20800150 | TRENCH BACKFILL | CU YD | 5 | 5 | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 718 | 718 | | | | |
| 25000310 | SEEDING, CLASS 4 | ACRE | 0.09 | 0.09 | | | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 12 | 12 | | | | |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 12 | 12 | | | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 12 | 12 | | | | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 1,129 | 1,129 | | | | |
| 25200110 | SODDING, SALT TOLERANT | SQ YD | 307 | 307 | | | | |
| 25200200 | SUPPLEMENTAL WATERING | UNIT | 16 | 16 | | | | |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 15 | 15 | | | | |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 12 | 12 | | | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 487 | 487 | | | | |
| 28000510 | INLET FILTERS | EACH | 2 | 2 | | | | |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 442 | | 442 | | | |
| 28200200 | FILTER FABRIC | SQ YD | 442 | | 442 | | | |
| 31101600 | SUB-BASE GRANULAR MATERIAL, TYPE B 8" | SQ YD | 148 | 148 | | | | |
| 35101800 | AGGREGATE BASE COURSE, TYPE B 6" | SQ YD | 20 | 20 | | | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 0.1 | 0.1 | | | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 0.2 | 0.2 | | | | |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 4 | 4 | | | | |
| 40701846 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/4" | SQ YD | 102 | 102 | | | | |
| 42001300 | PROTECTIVE COAT | SQ YD | 107 | 107 | | | | |
| 42001430 | BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) | SQ YD | 32 | 32 | | | | |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 713 | 713 | | | | |

* SPECIALTY ITEMS



FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-SQQ.dgn

USER NAME = pociecha | PLOT SCALE = 20.0000 ' / IN. | PLOT DATE = 8/2/2010

DESIGNED - LP | DRAWN - LP | CHECKED - JP | DATE - 08/02/2010

REVISED - PER IDOT 07/29/10 | REVISED - | REVISED - | REVISED -

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**SUMMARY OF QUANTITIES**

SCALE: NTS | SHEET NO. 3 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 3 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | | |

| | CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 80% FED 20% VILLAGE | 80% FED 20% VILLAGE | 100% VILLAGE | 100% VILLAGE | 80% FED 20% VILLAGE |
| | | | | | ROADWAY | BRIDGE | LIGHTING | BEAUTIFICATION | TRAINEES |
| | | | | | 0004 | 0011 | 0021 | 0031 | 0042 |
| | | | | | URBAN | URBAN | URBAN | URBAN | URBAN |
| | 44000100 | PAVEMENT REMOVAL | SQ YD | 354 | 354 | | | | |
| | 44000300 | CURB REMOVAL | FOOT | 54 | 54 | | | | |
| | 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 109 | 109 | | | | |
| | 44000600 | SIDEWALK REMOVAL | SQ FT | 717 | 717 | | | | |
| | 48101500 | AGGREGATE SHOULDERS, TYPE B 6" | SQ YD | 5 | 5 | | | | |
| | 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 | | 1 | | | |
| | 50104650 | SLOPE WALL REMOVAL | SQ YD | 272 | | 272 | | | |
| | 50200100 | STRUCTURE EXCAVATION | CU YD | 206 | | 206 | | | |
| | 50300225 | CONCRETE STRUCTURES | CU YD | 163.6 | | 163.6 | | | |
| | 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 462.6 | | 462.6 | | | |
| | 50300260 | BRIDGE DECK GROOVING | SQ YD | 442 | | 442 | | | |
| | 50300280 | CONCRETE ENCASEMENT | CU YD | 11.4 | | 11.4 | | | |
| | 50300300 | PROTECTIVE COAT | SQ YD | 921 | | 921 | | | |
| | 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 107,740 | | 107,740 | | | |
| * | X509 1725 | BICYCLE RAILING, SPECIAL | FOOT | 158 | | 158 | | | |
| * | X509 1755 | PARAPET RAILING, SPECIAL | FOOT | 391 | | 391 | | | |
| | 51201600 | FURNISHING STEEL PILES HP12X53 | FOOT | 1,178 | | 1,178 | | | |
| | 51202305 | DRIVING PILES | FOOT | 1,178 | | 1,178 | | | |
| | 51203600 | TEST PILE STEEL HP12X53 | EACH | 4 | | 4 | | | |
| | 51204650 | PILE SHOES | EACH | 32 | | 32 | | | |
| | 51500100 | NAME PLATES | EACH | 1 | | 1 | | | |
| | 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" | EACH | 1 | 1 | | | | |
| | 550A0050 | STORM SEWERS, CLASS A, TYPE 1 12" | FOOT | 40 | 40 | | | | |
| | 59100100 | GEOCOMPOSITE WALL DRAIN | SQ YD | 62 | | 62 | | | |
| | Z0046304 | PIPE UNDERDRAINS FOR STRUCTURES 4" | FOOT | 132 | | 132 | | | |
| | 60200405 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 4 FRAME AND GRATE | EACH | 1 | 1 | | | | |
| | 60207205 | CATCH BASINS, TYPE C, TYPE 4 FRAME AND GRATE | EACH | 1 | 1 | | | | |
| | 60604400 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 | FOOT | 51 | 51 | | | | |
| | 60606800 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.18 | FOOT | 50 | 50 | | | | |
| | 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 8 | 8 | | | | |
| | 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | | |
| | 70102550 | TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR | EACH | 1 | 1 | | | | |

* SPECIALTY ITEMS



| | | | | |
|---|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-SOQ.dgn | USER NAME = pacsecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |
| | PLOT SCALE = 20.0000 ' / IN. | DRAWN - LP | REVISED - | |
| | PLOT DATE = 8/2/2010 | CHECKED - JP | REVISED - | |
| | | DATE - 08/02/2010 | REVISED - | |

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**SUMMARY OF QUANTITIES**

SCALE: NTS | SHEET NO. 4 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 4 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

| | CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 80% FED 20% VILLAGE | 80% FED 20% VILLAGE | 100% VILLAGE | 100% VILLAGE | 80% FED 20% VILLAGE |
| | | | | | ROADWAY | BRIDGE | LIGHTING | BEAUTIFICATION | TRAINEES |
| | | | | | 0004 | 0011 | 0021 | 0031 | 0042 |
| | | | | | URBAN | URBAN | URBAN | URBAN | URBAN |
| | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 | 1 | | | | |
| | 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 8 | 8 | | | | |
| | 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 6 | 6 | | | | |
| | 72900100 | METAL POST - TYPE A | FOOT | 50 | 50 | | | | |
| * | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 106 | 106 | | | | |
| * | 78008210 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4" | FOOT | 320 | 320 | | | | |
| * | 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 2 | 2 | | | | |
| * | 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 2 | 2 | | | | |
| * | 81200240 | CONDUIT EMBEDDED IN STRUCTURE, 2½" DIA., PVC | FOOT | 330 | | | 330 | | |
| * | 81304700 | JUNCTION BOX EMBEDDED IN STRUCTURE 18" X 18" X 6" | EACH | 4 | | | 4 | | |
| | Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 52 | 52 | | | | |
| | Z0013797 | STABILIZED CONSTRUCTION ENTRANCE | SQ YD | 199 | 199 | | | | |
| | X5020501 | UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1 | EACH | 1 | | 1 | | | |
| | X5020502 | UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2 | EACH | 1 | | 1 | | | |
| | X6640200 | TEMPORARY CHAIN LINK FENCE | FOOT | 420 | 420 | | | | |
| | XX006277 | TEMPORARY SEDIMENT TRAP | EACH | 1 | 1 | | | | |
| | XX008003 | FORM LINER TEXTURED SURFACE, SPECIAL | SQ FT | 1,677 | | | | 1,677 | |
| | Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | | | | |
| | Z0076600 | TRAINEES | HOUR | 1,000 | | | | | 1,000 |
| | XX008403 | CONCRETE SUPERSTRUCTURE, SPECIAL | CU YD | 58.5 | | 58.5 | | | |

* SPECIALTY ITEMS



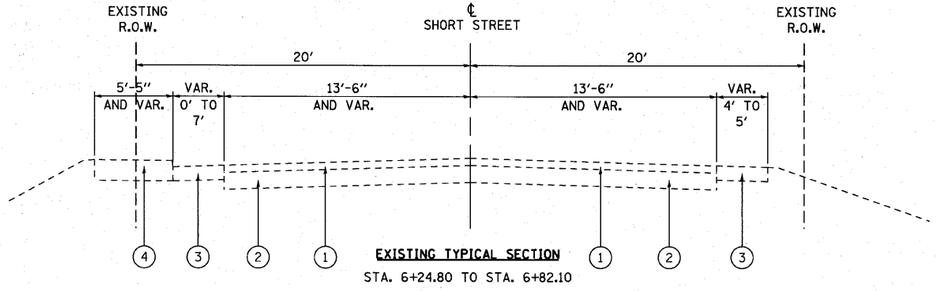
| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-SOQ.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 8/2/2010 | DATE - 08/02/2010 | REVISED - |

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

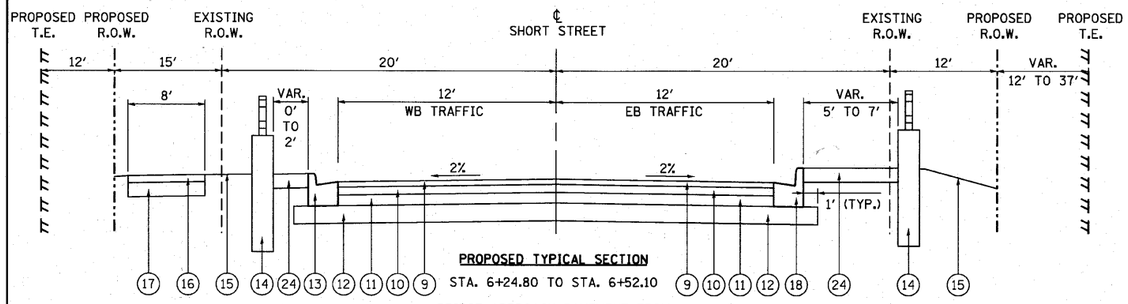
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**SUMMARY OF QUANTITIES**

SCALE: NTS | SHEET NO. 5 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 5 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

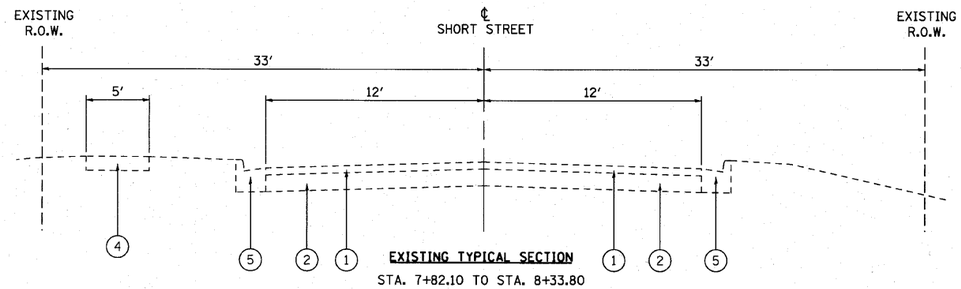



**EXISTING TYPICAL SECTION**
STA. 6+24.80 TO STA. 6+82.10

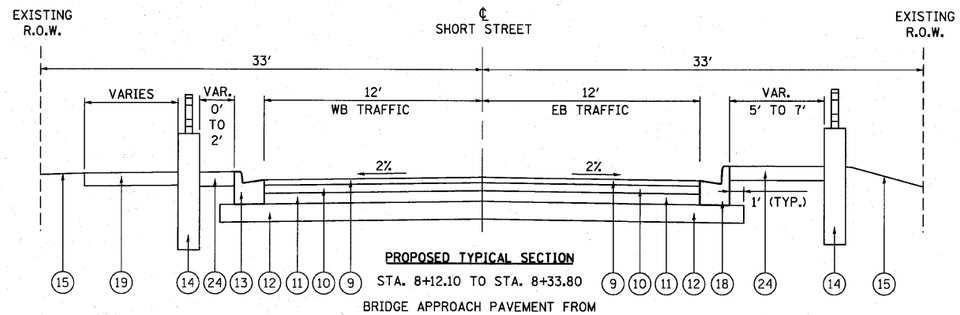



**PROPOSED TYPICAL SECTION**
STA. 6+24.80 TO STA. 6+52.10

BRIDGE APPROACH PAVEMENT FROM
STA. 6+52.10 TO STA. 6+82.10

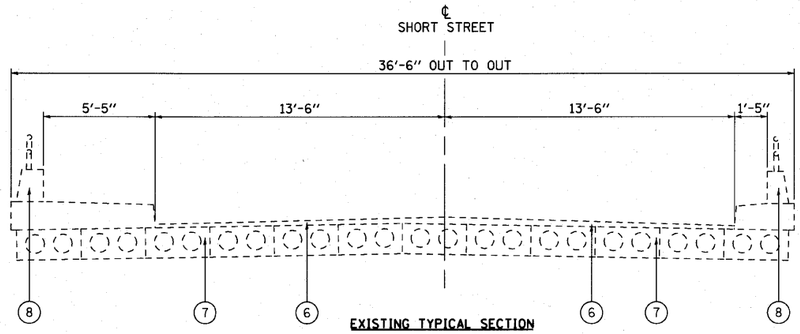



**EXISTING TYPICAL SECTION**
STA. 7+82.10 TO STA. 8+33.80

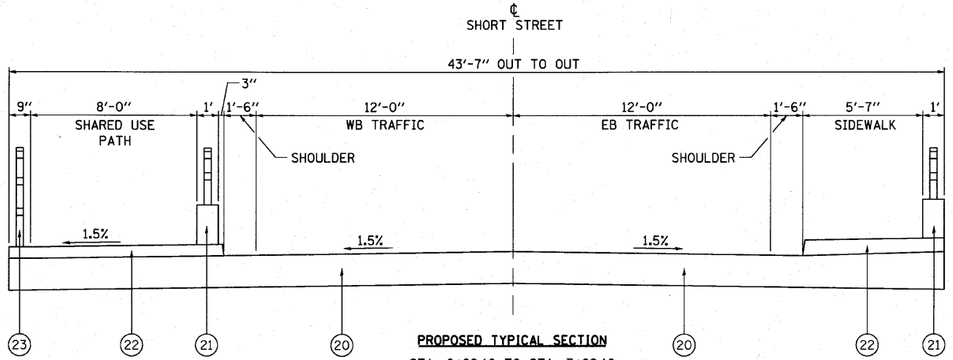



**PROPOSED TYPICAL SECTION**
STA. 8+12.10 TO STA. 8+33.80

BRIDGE APPROACH PAVEMENT FROM
STA. 7+82.10 TO STA. 8+12.10




**EXISTING TYPICAL SECTION**
STA. 6+82.10 TO STA. 7+82.10




**PROPOSED TYPICAL SECTION**
STA. 6+82.10 TO STA. 7+82.10

LEGEND

1. EXISTING HOT-MIX-ASPHALT PAVEMENT, 6″ (REM)
2. EXISTING AGGREGATE SUBBASE, 8″ (REM)
3. EXISTING AGGREGATE SHOULDER (REM)
4. EXISTING PCC SIDEWALK (REM)
5. EXISTING CONCRETE CURB AND GUTTER (REM)
6. EXISTING HOT-MIX ASPHALT SURFACE COURSE OVERLAY, 2″ (REM)
7. EXISTING PCC DECK BEAMS (REM)
8. EXISTING PARAPET WALL WITH RAILING (REM)
9. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2″
10. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4″
11. PROPOSED HOT-MIX ASPHALT BASE COURSE, 4″
12. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 8″
13. PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
14. PROPOSED OFF BRIDGE PARAPET WALL AND RAILING
15. PROPOSED TOPSOIL FURNISH AND PLACE, 4″ & SODDING, SALT TOLERANT
16. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 3″
17. PROPOSED AGGREGATE BASE COURSE, TYPE B, 6″
18. PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.18
19. PROPOSED PCC SIDEWALK 5″
20. PROPOSED PCC BRIDGE DECK (21″ DEPTH)
21. PROPOSED PARAPET/PEDESTRIAN SCREEN WITH PARAPET RAILING, (PAID FOR AS CONCRETE SUPERSTRUCTURE)
22. PROPOSED PCC SIDEWALK (PAID FOR AS CONCRETE SUPERSTRUCTURE, SPECIAL)
23. PROPOSED BICYCLE RAILING, SPECIAL
24. PROPOSED PCC PAVEMENT, PAID FOR AS PCC SIDEWALK 5 INCH

| HMA MIXTURE REQUIREMENTS CHART | |
|---|---|
| MIXTURE TYPE | AIR VOIDS |
| FULL DEPTH PAVEMENT | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 2″ | 4% @ 50 GYR. |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4″ | 4% @ 50 GYR. |
| HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0 mm), 4″ | 4% @ 50 GYR. |
| BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 2″ | 4% @ 50 GYR. |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 13″ | 4% @ 50 GYR. |
| BIKE PATH | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 3″ | 4% @ 50 GYR. |

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-typical.dgn | USER NAME = pooleche | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | PLOT SCALE = 20.0000 ' / IN. | DRAWN - LP | REVISED - PER IDOT 08/19/10 |
| | PLOT DATE = 8/20/2010 | CHECKED - JP | REVISED - |
| | | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**TYPICAL SECTIONS**

SCALE: NTS | SHEET NO. 6 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 6 |
| | | CONTRACT NO. 63468 | | |
| | | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | |

| THERMOPLASTIC PAVEMENT MARKING | |
|---|---|
| LOCATION (STA. TO STA.) | LINE 4 IN (FT) |
| | |
| 6+24.80 TO 6+52.10 | 62 |
| | |
| 8+12.10 TO 8+33.80 | 44 |
| | |
| TOTAL | 106 |

| POLYUERA PAVEMENT MARKING TYPE I | |
|---|---|
| LOCATION (STA. TO STA.) | LINE 4 IN (FT) |
| | |
| 6+52.10 TO 8+12.10 | 320 |
| | |
| TOTAL | 320 |

| EARTHWORK QUANTITIES | | | | |
|---|---|---|---|---|
| LOCATION (STA. TO STA.) | EARTH EX. (CU YD) | ADJ. EARTH EX. (15%) | EMBANKMENT (CU YD) | BALANCE WASTE (+) OR SHORTAGE (-) |
| | | | | |
| 6+24.80 TO 6+82.10 | 62.0 | 52.7 | 40.9 | 11.9 |
| | | | | |
| 7+82.10 TO 8+33.80 | 57.4 | 48.8 | 27.3 | 21.5 |
| | | | | |
| TOTAL | 119.4 | 101.5 | 68.1 | 33.4 |

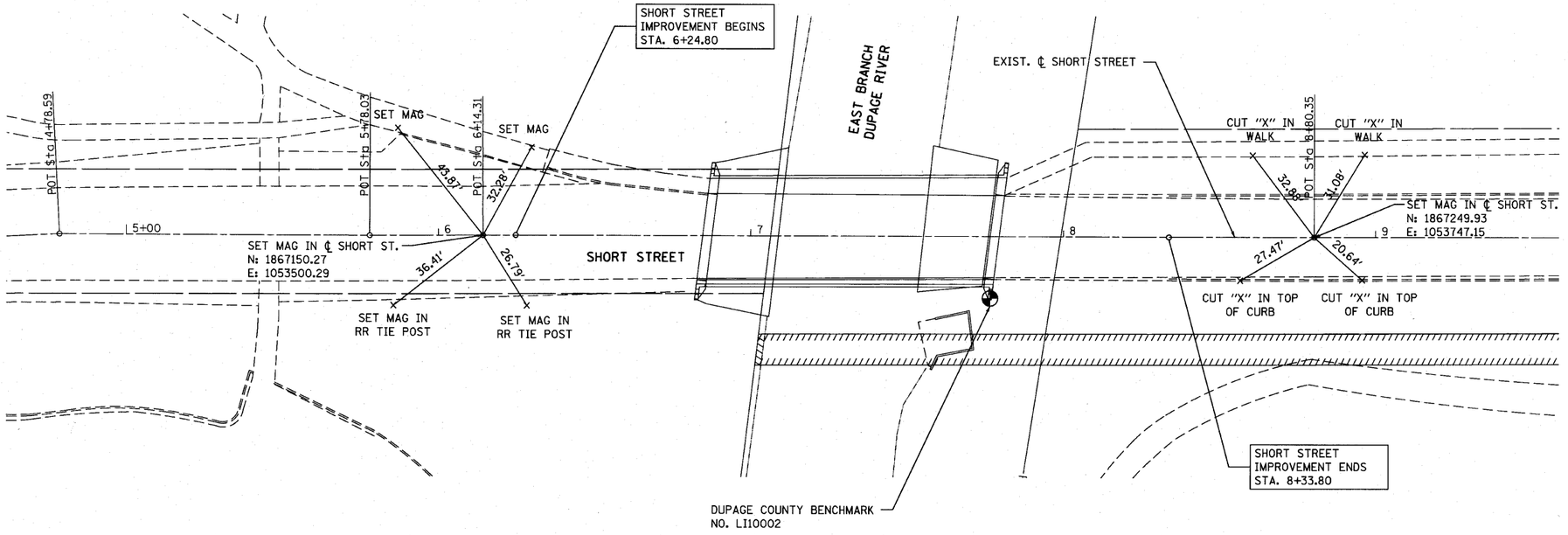
| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-schedule.dgn | USER NAME = pacsecha | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**SCHEDULES OF QUANTITIES**

SCALE: NTS | SHEET NO. 7 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 7 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |




## BENCHMARKS

COUNTY BENCHMARKS

1. DUPAGE COUNTY BENCHMARK NO. LI10002

   TO REACH THE STATION FROM THE JUNCTION OF ILL. RT. 53 AND THE EAST-WEST TOLLWAY (I-88), GO SOUTH ON ILL. RT. 53 1.20 MILES TO SHORT ST.. TURN RIGHT AND GO WEST ON SHORT ST. 0.15 MILE TO THE INTERSECTION WITH THE EAST BRANCH DU PAGE RIVER. THE STATION IS AT THE SOUTHEAST CORNER OF SAID INTERSECTION. A BRONZE DISK MONUMENT ESTABLISHED IN THE SOUTHEAST CORNER OF CONCRETE STRUCTURE FOR SHORT ST. BRIDGE OVER THE EAST BRANCH DU PAGE RIVER STAMPED "DU PAGE COUNTY MAPS AND PLATS"

   ELEVATION = 668.8549 FT. (NGVD 29)

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-atb.dgn | USER NAME = pacsecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**ALIGNMENT, TIES AND BENCHMARKS**

SCALE: 1"=20' | SHEET NO. 8 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 8 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |

PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / SEAL NOTED / SIGNATURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

EXISTING PROPERTY LINE

PROPOSED TEMPORARY EASEMENT (TYP.)

PROPOSED R.O.W. (TYP.)

PROPOSED HMA PATH, 8' WIDE

6+67.01 46.32' LT

6+67.04 34.32' LT

6+30.00 34.21' LT

6+30.04 34.21' LT

7+11.92 46.45' LT

7+10.49 34.44' LT

PROP. COMB. CONC. CURB & GUTTER TYPE B-6.18

SHORT STREET IMPROVEMENT BEGINS STA. 6+24.80

EAST BRANCH DUPAGE RIVER

FLOODWAY

FLOODPLAIN

BRIDGE (SEE STRUCTURAL PLANS)

HMA PATH

EXIST. R.O.W.

4' CURB TRANSITION TO MATCH EXISTING GRADE

6' CURB TRANSITION TO MATCH EXISTING GRADE

SHORT STREET

5+00

6

7

8

9

10+00

21'

19'

12'

35'

31'

EXISTING PROPERTY LINE

664.64

LANDSCAPE BLOCK RETAINING WALL

PROPOSED PCC SIDEWALK, 5" THICK

PROP. COMB. CONC. CURB & GUTTER TYPE B-6.18

4' TRANSITION FROM B-6.18 TO B-6.12

HMA PAVEMENT

CONCRETE

MATCH EXISTING CURB & GUTTER

6+16.85 18.83' RT

6+16.89 31.83' RT

7+02.60 31.58' RT

7+01.16 43.58' RT

6+36.92 43.77' RT

6+37.00 68.77' RT

6+17.00 68.83' RT

SHORT STREET IMPROVEMENT ENDS STA. 8+33.80

4' TRANSITION FROM B-9.18 TO B-6.12

PROP. COMB. CONC. CURB & GUTTER TYPE B-9.18

TIMBER POSTS TO BE REMOVED (TYP.)

WETLANDS (TYP.)

COMB. CONC. CURB & GUTTER REMOVAL (TYP.)

BENCH

NOTE:

1. THE TIMBER POSTS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
2. AN ESTIMATED QUANTITY OF 30 UNITS HAS BEEN PROVIDED FOR THE TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LEGEND

PAVEMENT & SIDEWALK REMOVAL

PROPOSED PCC PAVEMENT, PAID FOR AS PCC SIDEWALK 5 INCH

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / SEAL NOTED / SIGNATURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

PROPOSED PROFILE ALONG EXISTING ℄ SHORT ST.

EXISTING PROFILE ALONG EXISTING ℄ SHORT ST.

667.55

667.12

+1.69%

+2.10%

+2.10%

-2.10%

+2.70%

VPI STA. 6+32.10 ELEVATION 668.52

VPI STA. 7+32.10 ELEVATION 668.57

VPI STA. 7+82.10 ELEVATION 668.52

SSD = 307'
K = 24
100.00' V.C.

HP Sta. 7+32.10
HP El. 669.04

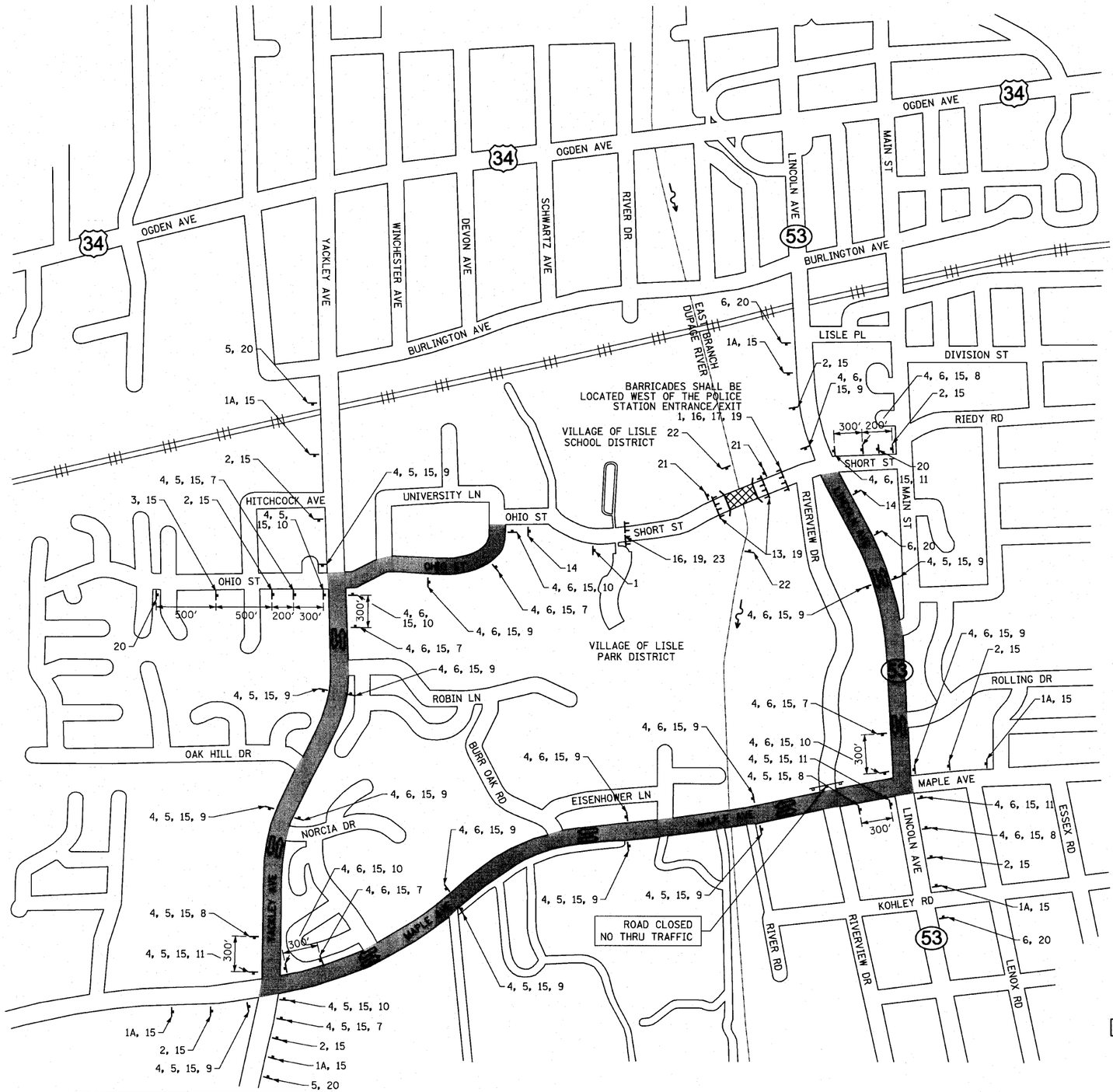
675 670 665 660 655 650

| EX ELEV | 664.83 | 665.54 | 666.43 | 667.22 | 667.90 | 667.98 | 668.58 | 658.79 | 668.83 | 668.66 | 653.12 | 668.98 | 667.87 | 668.04 | 666.77 | 665.81 | 665.09 | 664.73 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PR ELEV | | | | | | | | | | | | | | | | | | |

4+50 5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00

| | | | | | | |
|---|---|---|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-plnprf.dgn | USER NAME = pacieche | DESIGNED - LP | REVISED - PER IDOT 07/29/10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SHORT STREET OVER EAST BRANCH DUPAGE RIVER PLAN AND PROFILE | |
| | PLOT SCALE = 20.0000 ' / IN. | DRAWN - LP | REVISED - VILLAGE 08/09/10 | | HORIZ. 1"=20' | |
| | PLOT DATE = 8/20/2010 | CHECKED - JP | REVISED - | | SCALE: VERT. 1"=5' SHEET NO. 9 OF 45 SHEETS STA. 6+24.80 TO STA. 8+33.80 | |
| | | DATE - 08/02/2010 | REVISED - | | | |

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 9 |
| | | CONTRACT NO. 63468 | | |
| | | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | |




N

## SIGN LEGEND

1. ADVANCE BRIDGE CLOSED SIGNS W20-3 48" x 48" WITH AMBER FLASHING LIGHT
1A. ADVANCE DETOUR SIGNS W20-2 48" x 48" WITH AMBER FLASHING LIGHT
2. ADVANCE DETOUR SIGNS W20-2 48" x 48" WITH AMBER FLASHING LIGHT
3. ADVANCE ROAD CLOSED SIGNS W20-3 48" x 48" WITH AMBER FLASHING LIGHT
4. DETOUR ASSEMBLY SIGN M4-8 24" x 12"
5. EAST DIRECTION SIGNS M3-2 24" x 12"
6. WEST DIRECTIONS SIGNS M3-4 24" x 12"
7. DETOUR ARROW SIGNS M5-1R 21" x 15"
8. DETOUR ARROW SIGNS M5-1L 21" x 15"
9. DETOUR ARROW SIGNS M6-3 21" x 15"
10. DETOUR ARROW SIGNS M6-1 21" x 15"
11. DETOUR ARROW SIGNS M6-1 21" x 15"
12. ROAD CLOSED SIGNS R11-2 48" x 30"
13. BRIDGE OUT SIGNS R11-2 48" x 30"
14. END DETOUR SIGNS M4-8a 24" x 18"
15. ROAD NAME SIGNS 48" x 18"
16. ROAD CLOSED SIGNS R11-4 60" x 30"
17. DETOUR ARROW SIGNS M4-10L 48" x 18"
18. DETOUR ARROW SIGNS M4-10R 48" x 18"
19. TYPE III BARRICADE WITH TWO AMBER FLASHING LIGHTS
20. DETOUR ROUTE SIGN SPECIAL
21. SIDEWALK CLOSED SIGNS R11-1101 24" x 18"
22. ADVISORY SIGN
23. ADVISORY SIGN

LEGEND

DETOUR ROUTE

DIRECTION OF TRAFFIC

DETOUR SIGN

PROJECT AREA

SAMPLE SIGN ASSEMBLY

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-detour.dgn | USER NAME = pacsecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 8/2/2010 | DATE - 08/02/2010 | REVISED - |

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

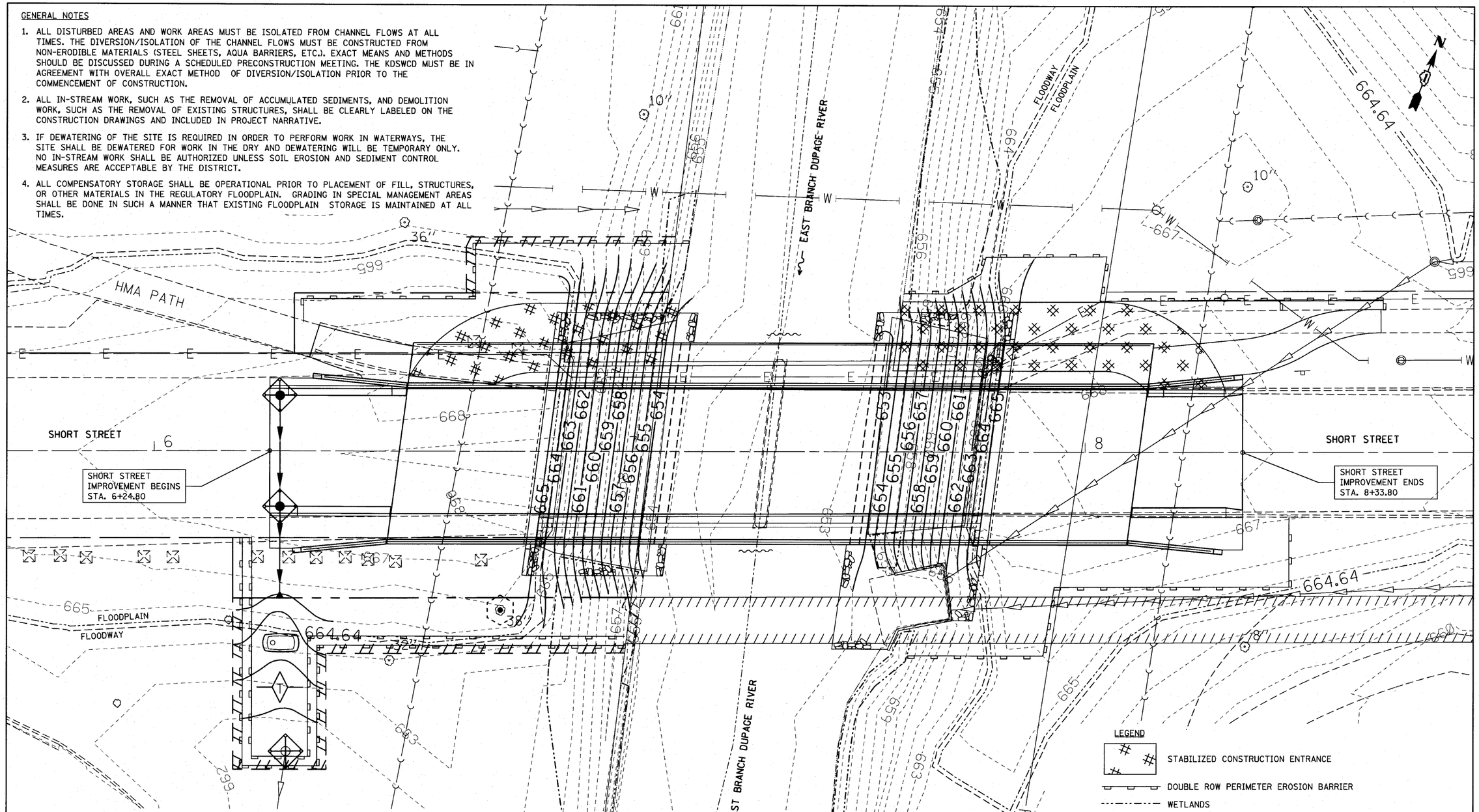
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**DETOUR PLAN**

SCALE: NTS | SHEET NO. 10 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 10 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | | |

GENERAL NOTES

1. ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM CHANNEL FLOWS AT ALL TIMES. THE DIVERSION/ISOLATION OF THE CHANNEL FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, ETC.). EXACT MEANS AND METHODS SHOULD BE DISCUSSED DURING A SCHEDULED PRECONSTRUCTION MEETING. THE KDSWCD MUST BE IN AGREEMENT WITH OVERALL EXACT METHOD OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ALL IN-STREAM WORK, SUCH AS THE REMOVAL OF ACCUMULATED SEDIMENTS, AND DEMOLITION WORK, SUCH AS THE REMOVAL OF EXISTING STRUCTURES, SHALL BE CLEARLY LABELED ON THE CONSTRUCTION DRAWINGS AND INCLUDED IN PROJECT NARRATIVE.
3. IF DEWATERING OF THE SITE IS REQUIRED IN ORDER TO PERFORM WORK IN WATERWAYS, THE SITE SHALL BE DEWATERED FOR WORK IN THE DRY AND DEWATERING WILL BE TEMPORARY ONLY. NO IN-STREAM WORK SHALL BE AUTHORIZED UNLESS SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE ACCEPTABLE BY THE DISTRICT.
4. ALL COMPENSATORY STORAGE SHALL BE OPERATIONAL PRIOR TO PLACEMENT OF FILL, STRUCTURES, OR OTHER MATERIALS IN THE REGULATORY FLOODPLAIN. GRADING IN SPECIAL MANAGEMENT AREAS SHALL BE DONE IN SUCH A MANNER THAT EXISTING FLOODPLAIN STORAGE IS MAINTAINED AT ALL TIMES.




5. MATERIALS & EQUIPMENT, INCLUDING TOPSOIL STOCKPILES, MAY NOT BE STORED WITHIN THE LIMITS OF THE FLOODPLAIN OR SPECIAL MANAGEMENT AREAS.
6. DEWATERING FOR CONSTRUCTION OF PIERS, IF REQUIRED, SHALL USE A PUMP OR APPROVED EQUAL. PUMP DISCHARGE MUST BE DIRECTED TO STORM SEWER OR PROTECTED FROM EROSION AT OUTFALL. DIRECT DISCHARGE INTO SPECIAL MANAGEMENT AREAS IS NOT ALLOWED.
7. ALL SEDIMENT & EROSION CONTROL MEASURES SHALL BE IN PLACE & VERIFIED BY VILLAGE OF LISLE PRIOR TO START OF CONSTRUCTION.

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-eros1.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - VILLAGE 08/09/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 10.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 8/20/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=10' | SHEET NO. 11 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 11 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |

GENERAL NOTES

1. TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

2. EROSION CONTROL WORK ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.

3. THE LANDSCAPING AND EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE ENGINEER.

4. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST REVISION.

5. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) AND CORPS OF ENGINEERS MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD AND CORPS OF ENGINEERS.

8. ALL EROSION CONTROL MEASURES MUST BE INSPECTED EVERY 7 DAYS AND AFTER EACH 1/2" RAIN EVENT.

9. EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDING ON SLOPE, SLOPE LENGTH, AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS (I.e. PERIMETERS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.

10. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7th DAY AFTER WORK HAS CEASED.

11. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

12. ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM CHANNEL FLOWS AT ALL TIMES. THE DIVERSION/ISOLATION OF THE CHANNEL FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS. THE KDSWCD MUST BE IN AGREEMENT WITH OVERALL EXACT METHOD OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

13. THE CHANNEL BANK MUST BE SEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET C500 PRIOR TO ACCEPTING FLOWS. THE WETLAND PLANTING SEEDING MIX SHALL BE PAID FOR AS SEEDING CLASS 4.

14. DURING CONSTRUCTION ON THE BANKS AND IN THE RIVER, WORK MUST BE TIMED TO TAKE PLACE DURING LOW OR NOFLOW CONDITIONS.

15. CONCENTRATED FLOW MUST BE ISOLATED FROM THE WORK AREA USING A NON-ERODIBLE COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.). EXACT MEANS AND METHODS SHOULD BE DISCUSSED DURING A SCHEDULED PRECONSTRUCTION MEETING.

16. IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NONERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE FLOW OF THE RIVER.

17. IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, PLEASE BE SURE TO FILTER ALL WATER BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL FLOW OF THE RIVER.

18. THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.

19. THE END SECTION SHOULD INCLUDE A ROCK LINED APRON AND THEN THIS AREA IS TO BE IMMEDIATELY BROUGHT TO FINAL GRADE.

20. THE CONTRACTOR SHALL MAKE SURE THAT NO DEBRIS BE DROPPED INTO THE CHANNEL WHEN THE BRIDGE IS DEMOLISHED. NO ADDITIONAL COMPENSATION WILL BE PROVIDED AND THE COST FOR THIS TASK WILL BE INCLUDED IN THE COST OF THE REMOVAL OF EXISTING STRUCTURES.

22. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BY THE KDSWCD.

23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

24. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

25. THE DISCHARGE SHALL BE LIMITED TO THE MINIMUM WIDTH NECESSARY TO COMPLETE THE AUTHORIZED WORK.

26. ALL IN-STREAM WORK, SUCH AS THE REMOVAL OF ACCUMULATED SEDIMENTS, AND DEMOLITION WORK, SUCH AS THE REMOVAL OF EXISTING STRUCTURES, SHALL BE CLEARLY LABELED ON THE CONSTRUCTION DRAWINGS AND INCLUDED IN PROJECT NARRATIVE.

27. IF DEWATERING OF THE SITE IS REQUIRED IN ORDER TO PERFORM WORK IN WATERWAYS, THE SITE SHALL BE DEWATERED FOR WORK IN THE DRY AND DEWATERING WILL BE TEMPORARY ONLY. NO IN-STREAM WORK SHALL BE AUTHORIZED UNLESS SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE ACCEPTABLE BY THE ENGINEER.

SOIL EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS:

1. GENERAL

A. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE PROVISIONS OF THE COUNTY CODE, THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND ANY LOCAL, COUNTY, STATE AND/OR FEDERAL STORM WATER MANAGEMENT AND/OR SOIL EROSION AND POLLUTION CONTROL ORDINANCES.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO COMMENCMENT OF CONSTRUCTION ACTIVITES. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION AND OR GROUND COVER HAS BEEN ESTABLISHED WITH COVERAGE OF AT LEAST 70 PERCENT.

2. IMPLEMENTATION

A. BEFORE STARTING CLEARING AND SITE GRADING WORK, A STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCES SHALL BE INSTALLED AS SHOWN ON THE PLANS.

B. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MONITORED PERIODICALLY FOR ITS EFFECTIVENESS TO COLLECT DIRT WHICH COULD LEAVE THE SITE VIA CONSTRUCTION VEHICLES. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.

C. INLET FILTER BASKETS SHALL BE INSTALLED AND MAINTAINED IN INTAKE STRUCTURES (I.E., INLETS, CATCH BASINS).

D. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 14 DAYS, SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED AROUND SUCH STOCKPILE. ANY PART OF THE STOCKPILE TO REMAIN UNTOUCHED FOR 21 DAYS MUST BE PROTECTED WITH TEMPORARY SOIL AND EROSION CONTROL MEASURES WITHIN 14 DAYS OF THE LAST DAY THE STOCKPILE WAS DISTURBED.

E. ANY DISTURBED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER ACTIVITY HAS CEASED UNLESS ACTIVITY WILL RESUME WITHIN 21 DAYS FROM INITIAL CEASE IN ACTIVITY. TEMPORARY COVER SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.

F. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, INCLUDING STORM WATER RUNOFF, SHALL BE FILTERED PRIOR TO DISCHARGING TO THE STORM WATER SYSTEM.

3. MAINTENANCE AND INSPECTIONS

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF/OR POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITH SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.

B. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL/ENGINEER MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF INSPECTION. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 24 HOURS AN INCIDENCE OF NON-COMPLIANCE OBSERVED DURING AN INSPECTION CONDUCTED, SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NON-COMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NON-COMPLIANCE. AN INCIDENCE OF NON-COMPLIENCE IS DEFINED AS ANY NOTICEABLE DISCHARGE OF ANY SEDIMENT LEAVING THE SITE.

4. TYPICAL CONSTRUCTION SEQUENCING:

1. INSTALL SOIL EROSION AND SEDIMENT CONTROL (SE/SC) MEASURES
   A. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
   B. SILT FENCE INSTALLATION
   C. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
   D. STABILIZED CONSTRUCTION ENTRANCES
2. TREE REMOVAL WHERE NECESSARY (CLEAR AND GRUB)
3. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS, ETC.)
4. INSTALL DIVERSION OR METHOD TO ISOLATE WORK FROM STREAM FLOW UPSTREAM
5. INSTALL DIVERSION OR ISOLATION METHOD DOWNSTREAM
6. DEWATER THE WORK AREA
7. CREATE/MAINTAIN DEWATER OPERATION
8. CONSTRUCT STABILIZED ROADWAY INTO WORK AREA
9. DEMO THE EXISTING STRUCTURES
10. CONSTRUCT PIERS
11. STABILIZE BANK & BED
12. REMOVE DOWNSTREAM METHOD OF ISOLATION THEN REMOVE UPSTREAM ISOLATION METHOD.
13. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
14. TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
15. INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET & OUTLET PROTECTION
16. INSTALL ROADWAYS
17. PERMANENTLY STABILIZE ALL OUTLOT AREAS
18. INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS
19. PERMANENTLY STABILIZE LOTS
20. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION

NOTE: SOIL EROSION AND SEDIMENT CONTROL INSPECTIONS MUST OCCUR EVERY SEVEN CALENDAR DAYS AND AFTER EVERY 1/2" OR GREATER RAINFALL EVENT.

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-eros2.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - PER IDOT 08/19/10 |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 8/20/2010 | DATE - 08/02/2010 | REVISED - |

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

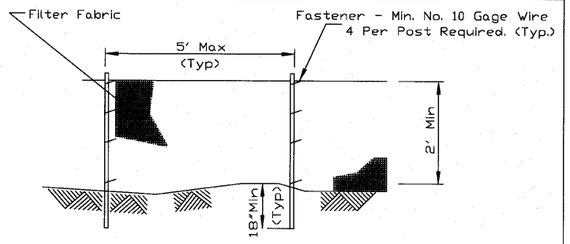
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**EROSION AND SEDIMENT CONTROL NOTES**

SCALE: NTS | SHEET NO. 12 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

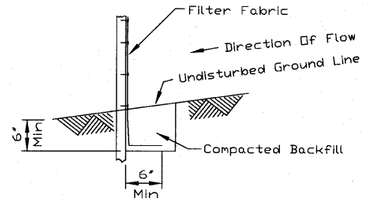
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 12 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |

| CONTROL MEASURE GROUP | CONTROL MEASURE | APPL. | KEY | CONTROL MEASURE CHARACTERISTICS | TEMP. | PERMNT |
|---|---|---|---|---|---|---|
| VEGETATIVE SOIL COVER | TEMPORARY SEEDING | X | TS | PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE. | X | |
| | PERMANENT SEEDING | X | PS | PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION. FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN. | | X |
| | DORMANT SEEDING | | DS | SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED. | X | X |
| | SODDING | X | SO | QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION. FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT. | X | X |
| | GROUND COVER | | GC | PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES. | | X |
| NON VEGETATIVE SOIL COVER | MULCHING | | M | ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED. | X | X |
| | AGGREGATE COVER | | AG | PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE. | X | X |
| | PAVING | X | P | PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. | | X |
| DIVERSIONS | RIDGE DIVERSION | | RD | TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE. | X | X |
| | CHANNEL DIVERSION | | CD | TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE. | X | X |
| | COMBINATION DIVERSION | | DC | TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE. | X | X |
| | CURB AND GUTTER | X | CG | SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION. | | X |
| | BENCHES | | B | SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY. | X | X |
| WATERWAYS | BARE CHANNEL | | BC | PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW. | X | |
| | VEGETATIVE CHANNEL | | VC | PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST. | X | X |
| | LINED CHANNEL | | LC | USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED. | X | X |
| ENCLOSED DRAINAGE | STORM SEWER | X | ST | CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY. | | X |
| | UNDERDRAIN | | UD | USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS. | X | X |
| SPILLWAYS | STRAIGHT PIPE SPILLWAY | | SS | USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER. | | X |
| | DROP INLET PIPE SPILLWAY | | DIS | SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED. | | X |
| | WEIR SPILLWAY | | W | USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES. | X | X |
| | BOX INLET WEIR SPILLWAY | | BS | SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH. | X | X |
| OUTLETS | LINED APRON | X | LA | PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES. | X | X |
| SEDIMENT BASINS | EMBANKMENT SEDIMENT BASIN | | ES | USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE. | X | X |
| | EXCAVATED SEDIMENT BASIN | | XS | USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE. | X | X |
| | COMBINATION SEDIMENT BASIN | | CS | USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED. | X | X |
| SEDIMENT FILTERS | BARRIER FILTER | | BF | (C) USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN ½ ACRE TO FILTER SEDIMENT FROM RUNOFF. | X | |
| | VEGETATIVE FILTER | | VF | USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA. | X | X |
| MUD AND DUST CONTROL | STABILIZED CONST. ENTRANCE | X | SE | PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE. | X | X |
| | DUST AND TRAFFIC CONTROL | | DT | PREVENTS DUST FROM LEAVING CONSTRUCTION SITE. | X | X |

## SILT FENCE PLAN




ELEVATION

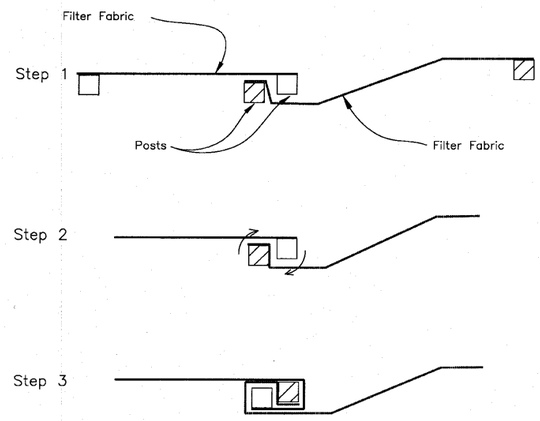



FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

| REFERENCE | | STANDARD DWG. NO. |
|---|---|---|
| Project | NRCS Natural Resources Conservation Service | IL-620 |
| Designed ____ Date ____ | | SHEET 1 OF 2 |
| Checked ____ Date ____ | | DATE 11-20-01 |
| Approved ____ Date ____ | | |

## SILT FENCE




ATTACHING TWO SILT FENCES

NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

| REFERENCE | | STANDARD DWG. NO. |
|---|---|---|
| Project | NRCS Natural Resources Conservation Service | IL-620(W) |
| Designed ____ Date ____ | | SHEET 2 OF 2 |
| Checked ____ Date ____ | | DATE 1-29-99 |
| Approved ____ Date ____ | | |

* A DOUBLE ROW OF SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION SITE.

## SOIL PROTECTION CHART

| STABLIZATION CHART | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PERMANENT SEEDINGS | | | A— | | | * | * | | * | | | |
| DORMANT SEEDINGS | B— | | | | | | | | | B— | | |
| TEMPORARY SEEDINGS | | | C— | | | | D— | | | | | |
| SODDING | | | E** | | | | | | | | | |
| MULCHING | F— | | | | | | | | | | | |

A – REFER TO LANDSCAPE PLANS FOR PERMANENT SEED MIXTURES AND LOCATIONS

B – KENTUCKY BLUEGRASS 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 45 LBS./AC. AND 2 TONS STRAW MULCH PER ACRE

C – SPRING OATS 100 LBS./AC.

D – WHEAT OR CEREAL RYE 150 LBS./AC.

E – SOD (NURSERY GROWN KENTUCKY BLUEGRASS)

F – EROSION CONTROL BLANKET (SPECIAL 1)

* IRRIGATE AS NECESSARY

** IRRIGATION AS NECESSARY TO ESTABLISH SOD

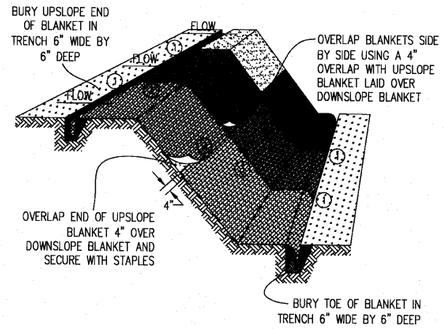
| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-eros3.dgn | USER NAME = pocieche | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

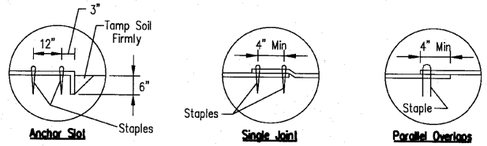
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

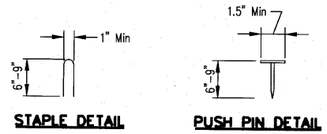
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**EROSION AND SEDIMENT CONTROL DETAILS**

SCALE: NTS | SHEET NO. 13 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 13 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |




NOTES:

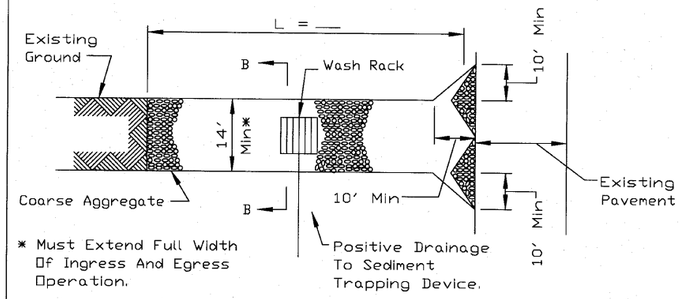
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

| Date | | |
|---|---|---|
| Designed | | |
| Drawn B. JOHNSON | 11/08 | |
| Checked | | |
| Approved | | |

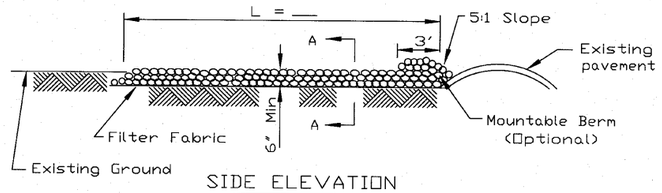
**EROSION CONTROL BLANKET INSTALLATION DETAILS**

IL-630

## STABILIZED CONSTRUCTION ENTRANCE PLAN




PLAN VIEW



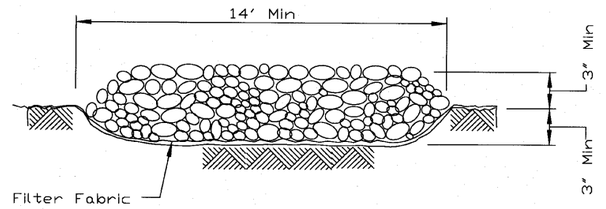

SIDE ELEVATION

NOTES:

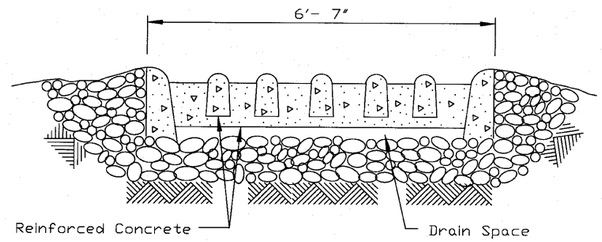
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

| REFERENCE | | | NRCS | STANDARD DWG. NO. |
|---|---|---|---|---|
| Project | | | Natural Resources Conservation Service | IL-630 |
| Designed | | Date | | SHEET 1 OF 2 |
| Checked | | Date | | DATE 8-18-94 |
| Approved | | Date | | |

## STABILIZED CONSTRUCTION ENTRANCE PLAN




SECTION A-A




SECTION B-B

| REFERENCE | | | NRCS | STANDARD DWG. NO. |
|---|---|---|---|---|
| Project | | | Natural Resources Conservation Service | IL-630 |
| Designed | | Date | | SHEET 2 OF 2 |
| Checked | | Date | | DATE 8-18-94 |
| Approved | | Date | | |

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-eros4.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

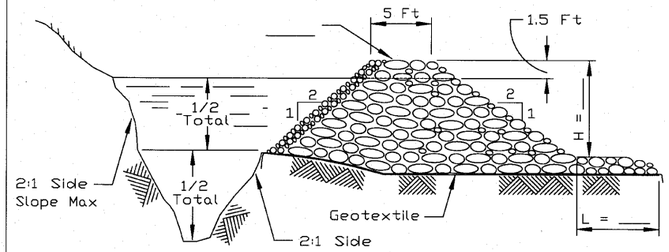
**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**EROSION AND SEDIMENT CONTROL DETAILS**

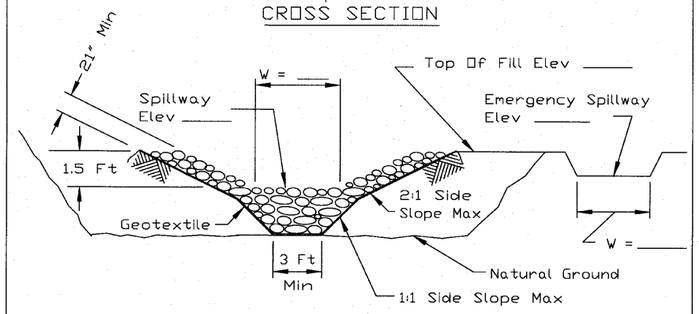
SCALE: NTS | SHEET NO. 14 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 14 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT BRM-8003 (676) | | |

## TEMPORARY SEDIMENT TRAP




CROSS SECTION



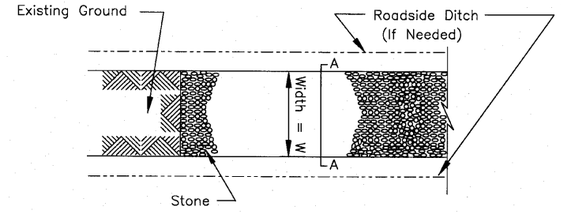

STONE SECTION

NOTES:

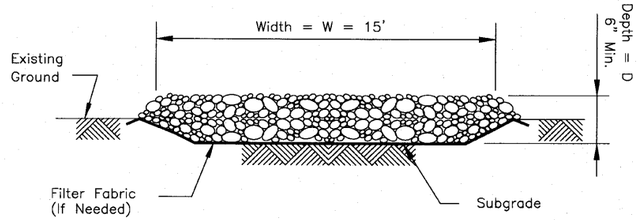
1. If the sediment pool is formed or enlarged the side slope will be 2:1 or flatter.
2. The fill shall be constructed using IDOT RR-4 stone size. A 1'layer of IDOT CA-2 should be placed on the inside face to reduce the flow rate.
3. The rock will be placed according to construction specification 25 ROCKFILL. Placement will be by Method 1 and compaction will be class III.
4. The geotextile shall meet the requirements in material specification 592 GEOTEXTILE table 1 or 2, class I, II or IV.

| REFERENCE | | STANDARD DWG. NO. |
|---|---|---|
| Project | NRCS Natural Resources Conservation Service | IL-660 |
| Designed ____ Date ____ | | SHEET 1 OF 1 |
| Checked ____ Date ____ | | DATE 11-20-01 |
| Approved ____ Date ____ | | |

## CONSTRUCTION ROAD STABILIZATION




PLAN VIEW




SECTION A–A

NOTES:

1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Stone shall meet one of the following IDOT coarse aggregate gradations, CA–1, CA–2, CA–3, or CA–4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. See plans for construction road location, D and W dimensions.
4. Minimum width is 14 feet for one–way traffic and 20 feet for two–way traffic. Two–way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
5. Roadway shall follow the contour of the natural terrain to the extent possible.

| REFERENCE | | STANDARD DWG. NO. |
|---|---|---|
| Project | NRCS Natural Resources Conservation Service | IL-506 |
| Designed ____ Date ____ | | SHEET 1 OF 1 |
| Checked ____ Date ____ | | DATE 1-29-99 |
| Approved ____ Date ____ | | |

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-eros5.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**EROSION AND SEDIMENT CONTROL DETAILS**

SCALE: NTS | SHEET NO. 15 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 15 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT BRM-8003 (676) | | |

RIM=663.90
SANITARY
8" PVC E=654.90
8" PVC W=654.96

RIM=661.72
10" IP=656.47

PROPOSED R.O.W. (TYP.)

12" CMP
INV=659.86

CPP=658.35

EAST BRANCH DUPAGE RIVER

FLOODWAY

FLOODPLAIN

RIM=667.20
SANITARY
8" PVC E=656.00
8" PVC W=656.00

RIM=664.95
STORM
E=655.58
W=655.48

RIM=666.71
10" IP=654.06
E-W

RIM=663.84
12" RCP N=661.24

LANDSCAPE BLOCK
RETAINING WALL

RIM=664.13
12" RCP
N=657.89
15" RCP
S=657.43

HMA PAVEMENT

HMA PATH

EXIST. R.O.W.

CONCRETE

SHORT STREET

L 5+00

L 6

L 8

L 9

L 10+00

21'

19'

35'

31'

S1

S2

FLOODPLAIN

FLOODWAY

664.64

60" PIPE W/LID
INV=655.33

18" PIPE W/LID
INV=655.71

PROPOSED TEMPORARY
EASEMENT (TYP.)

HMA PAVEMENT

RIM=661.09
8" PVC
SW=655.62

BENCH

RIM=663.86
STORM
18" RCP N=656.81
18" RCP W=656.67

RIM=664.25
15" RCP N=656.92
18" RCP S=656.83

1 STA. 6+27.00, 12' LT
CATCH BASIN TYPE C, F&G T4
RIM EL. = 667.49
12" INV. EL. = 664.49 (S)

2 STA. 6+27.00, 12' RT
CATCH BASIN TYPE A, F&G T4
RIM EL. = 667.41
12" INV. EL. = 664.37 (N, SE)

3 STA. 6+27.00, 32' RT
RCP FLARED END SECTION
12" INV. EL. = 664.27 (SE)

(S1) 24 LF - 12"Ø RCP @ 0.5%
T.B.F. = 3.2 CY. YD.

(S2) 16 LF - 12"Ø RCP @ 0.5%
T.B.F. = 1.3 CU. YD.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
BLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
DATE
BY

675
670
665
660
655
650

PROPOSED PROFILE ALONG
EXISTING ℄ SHORT ST.

Natural H.W.E. 664.59
(100 year)

Natural H.W.E. 662.87
(10 year)

Natural H.W.E. 664.11
(50 year)

Natural H.W.E. 663.76
(Design 30 year)

EXISTING PROFILE ALONG
EXISTING ℄ SHORT ST.

W.S.E. ON
JULY 2007
ELEV=654.01

EXISTING 42" SANITARY PIPE

EXISTING 36" SANITARY PIPE

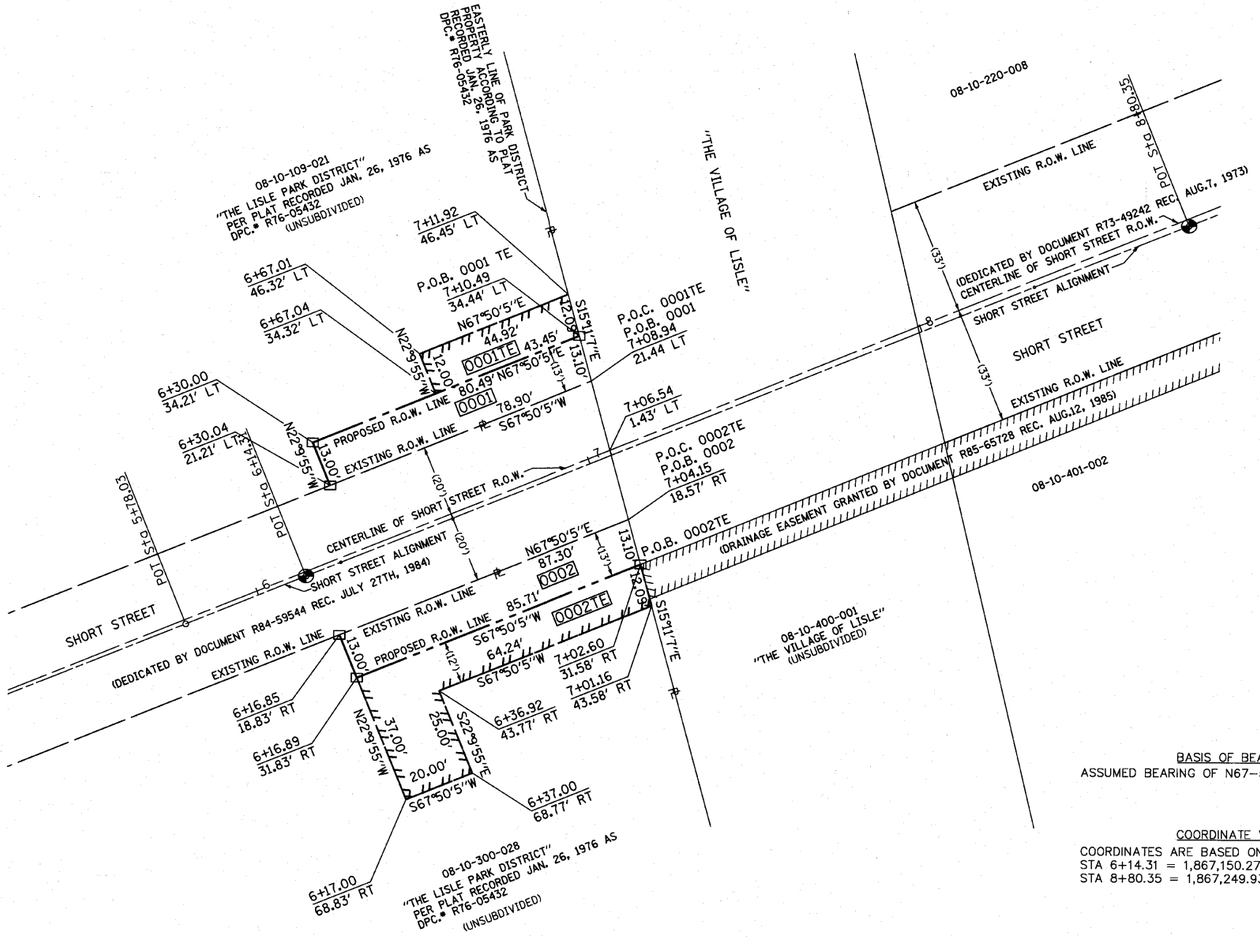
| EX ELEV / PR ELEV | 4+50 | 5+00 | 5+50 | 6+00 | 6+50 | 7+00 | 7+50 | 8+00 | 8+50 | 9+00 | 9+50 | 10+00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EX ELEV | 664.83 | 665.54 | 666.43 | 667.22 | 667.90 | 668.58 | 668.66 | 667.87 | 666.77 | 665.81 | 665.09 | 664.73 |
| PR ELEV | | | | | 667.98 | 658.79 | 653.12 | 668.04 | | | | |
| | | | | | | 668.83 | 668.98 | | | | | |

| | | | | |
|---|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-dran.dgn | USER NAME = pocsecha | DESIGNED - LP | REVISED - VILLAGE 08/09/10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION |
| | PLOT SCALE = 20.0000 ' / IN. | DRAWN - LP | REVISED - | |
| | PLOT DATE = 8/20/2010 | CHECKED - JP | REVISED - | |
| | | DATE - 08/02/2010 | REVISED - | |

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**DRAINAGE AND UTILITIES**

HORIZ. 1"=20'
SCALE: VERT. 1"=5' | SHEET NO. 16 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 16 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | | |




## LEGEND

| | |
|---|---|
| — — — | PROPOSED RIGHT OF WAY LINE |
| — — — | PROPOSED EASEMENT |
| ——— ——— | EXISTING RIGHT OF WAY LINE |
| —— — —— | CENTERLINE |
| ——— | PLATTED LOT LINES |
| R. | PROPERTY (DEED) LINE |
| APL | APPARENT PROPERTY LINE |
| —— - - —— | SECTION LINE |
| 129.324 | MEASURED DIMENSION |
| 129.324 (COMP) | COMPUTED DIMENSION |
| (129.324) | RECORDED DIMENSION |
| + | CUT CROSS FOUND OR SET |
| ● | IRON PIPE OR IRON ROD FOUND |
| ○ | RESET PIPE OR ROD TO ORIGINAL POSITION. |
| ○ T1(B1) T2(B2) T3(B3) | THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER. |
| ○ T1 | DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE. |
| ○ (B1) | DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE. |
| □ | DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET. |
| ■ | STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER. |
| ◒ | PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS) |

GRAPHIC SCALE
20' 0 20'
(IN FEET)
1 inch = 20 ft.

N

1

### COORDINATE TABLE

| STATION OFFSET | COORDINATES |
|---|---|
| 6 + 16.85 - 18.83' RT. | 1,867,133.77N - 1,053,509.90E |
| 6 + 16.89 - 31.83' RT. | 1,867,121.73N - 1,053,514.80E |
| 6 + 17.00 - 68.83' RT. | 1,867,087.46N - 1,053,528.76E |
| 6 + 30.00 - 34.21' LT. | 1,867,187.87N - 1,053,502.22E |
| 6 + 30.04 - 21.21' LT. | 1,867,175.83N - 1,053,507.12E |
| 6 + 36.92 - 43.77' RT. | 1,867,118.16N - 1,053,537.85E |
| 6 + 37.00 - 68.77' RT. | 1,867,133.77N - 1,053,509.90E |
| 6 + 67.01 - 46.32' LT. | 1,867,212.96N - 1,053,531.99E |
| 6 + 67.04 - 34.32' LT. | 1,867,201.85N - 1,053,536.52E |
| 7 + 01.16 - 43.58' LT. | 1,867,142.40N - 1,053,597.34E |
| 7 + 02.60 - 31.58' LT. | 1,867,154.07N - 1,053,594.18E |
| 7 + 04.15 - 18.57' RT. | 1,867,166.71N - 1,053,590.75E |
| 7 + 08.94 - 21.44' LT. | 1,867,205.60N - 1,053,580.19E |
| 7 + 10.49 - 34.44' LT. | 1,867,218.24N - 1,053,576.76E |
| 7 + 11.92 - 46.45' LT. | 1,867,229.91N - 1,053,573.59E |

BASIS OF BEARING
ASSUMED BEARING OF N67-50-05E BETWEEN STA 6+14.31 AND STA 8+80.35

COORDINATE VALUES
COORDINATES ARE BASED ON THE FOLLOWING VALUES.
STA 6+14.31 = 1,867,150.27 N. - 1,053,502,.22 E.
STA 8+80.35 = 1,867,249.93 N. - 1,053,747.15 E.

AREAS SHOWN IN ACRES

| PARCEL NO. | OWNER | AREA OF WHOLE | AREA TAKEN | PREV. DED OR USE | AREA REMAIN. | AREA OF EASEMENT | EASEMENT PURPOSE | PROPERTY INDEX NUMBER |
|---|---|---|---|---|---|---|---|---|
| 0001 | THE LISLE PARK DISTRICT | 29.215 | 0.024 | | 29.191 | | | 08-10-109-021 |
| 0001 TE | | | | | | 0.012 | CONTRUCTION | |
| 0002 | THE LISLE PARK DISTRICT | 52.252 | 0.026 | | 52.226 | | | 08-10-300-028 |
| 0002 TE | | | | | | 0.034 | CONSTRUCTION | |

STATE OF ILLINOIS )
)SS
COUNTY OF DUPAGE )

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 10, TOWNSHIP 38 NORTH, RANGE 10 EAST, OF THE THIRD PRINCIPAL MERIDIAN, DU PAGE COUNTY; THE SURVEY IS A TRUE AND COMPLETE AS SHOWN TO SAID SURVEY, THAT ALL MONUMENT RECORDS FOUND AND ESTABLISHED ARE OF PERMANNENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS DAY OF , 20

FOR REVIEW PURPOSES ONLY

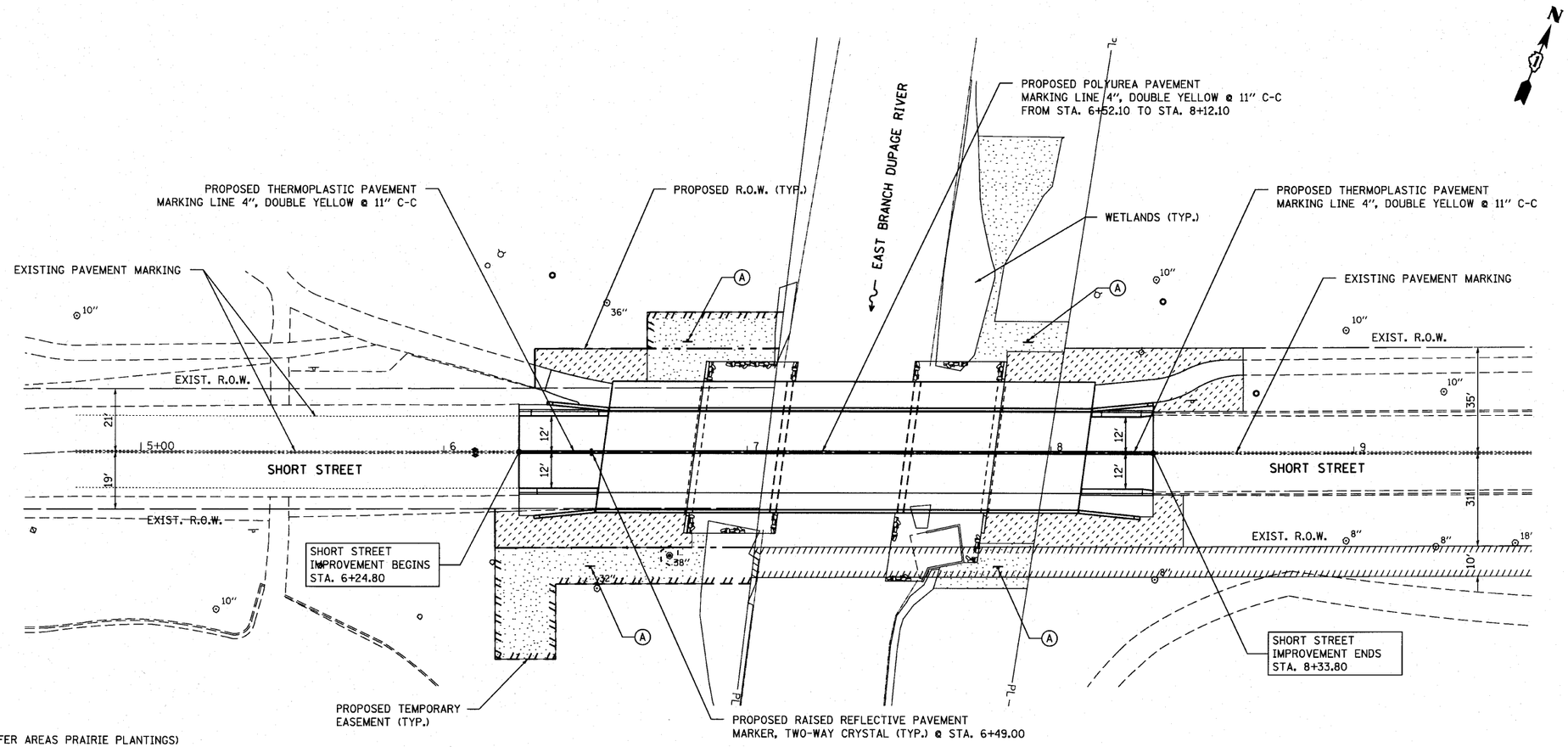
BOLLINGER, LACH & ASSOCIATES, INC.
JAMES D. BAKER
ILLINOIS REGISTERED LAND SURVEYOR NO. 3648
EXPIRES 11/30/2010

Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com
ITASCA • CHICAGO • ALGONQUIN • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

| REVISION | |
|---|---|
| DATE | DESCRIPTION |
| 5/28/10 | COMMENTS |

ILLINOIS DEPT. OF TRANSPORTATION
RIGHT OF WAY PLAT

ROUTE SHORT STREET
SECTION 03-00050-00-BR
COUNTY DU PAGE
JOB# R-55-001-97 PROJECT# 871-002
SEC 10 T 38 , R 10E OF 3RD P.M.
STA 6+14.31 TO STA 8+33.80
DRAWN JDB CHECKED JFP
SCALE: 1: 20' PARCEL NO. 0001-0002




SEEDING, CLASS 4

(RIPARIAN & WETLAND BUFFER AREAS PRAIRIE PLANTINGS)

| SPECIES | COMMON NAME | LBS/ACRE | SIZE OF STOCK (IN) |
|---|---|---|---|
| ANDROPOGON GERARDII | BIG BLUESTEM | 4.000 | 48-96 |
| ANDROPOGON SCOPARIUS | LITTLE BLUESTEM | 4.000 | 24-36 |
| BOUTELOUA CURTIPENDULA | SIDE-OATS GRAMA | 2.000 | 12-36 |
| PANICUM VIRGATUM | SWITCH GRASS | 2.000 | 36-60 |
| ASCLEPIAS TUBEROSA | BUTTERFLY WEED | 0.050 | 12-36 |
| ASTER ERICOIDES | HEATH ASTER | 0.125 | 12-36 |
| ASTER NOVAE-ANGLIAE | NEW ENGLAND ASTER | 0.050 | 12-48 |
| CASSIA FASCICULATA | PARTRIDGE PEA | 1.000 | 6-36 |
| COREOPSIS LANCEOLATA | SAND COREOPSIS | 0.500 | 24-36 |
| COREOPSIS PALMATA | PRAIRIE COREOPSIS | 0.050 | 12-36 |
| ECHINACEA PURPUREA | PURPLE CONEFLOWER | 0.500 | 24-36 |
| PENSTEMON DIGITALIS | FOXGLOVE BEARDTONGUE | 0.125 | 24-48 |
| MONARDA FISTULOSA | WILD BERGAMOT | 0.050 | 24-48 |
| RATIBIDA PINNATA | YELLOW CONEFLOWER | 0.250 | 12-48 |
| RUDBECKIA HIRTA | BLACK-EYED SUSAN | 1.000 | 12-36 |
| SILPHIUM LACINIATUM | COMPASS PLANT | 0.050 | 36-96 |
| SILPHIUM TEREBINTHINACEUM | PRAIRIE DOCK | 0.050 | 36-96 |
| SOLIDAGO NEMORALIS | OLD-FIELD GOLDENROD | 0.125 | 6-20 |
| SOLIDAGO RIGIDA | STIFF GOLDENROD | 0.100 | 12-48 |
| TRADESCANTIA OHIENSIS | COMMON SPIDERWORT | 0.050 | 12-48 |
| VERBENA STRICTA | HOARY VERVAIN | 0.100 | 12-24 |

COVER CROP: ANNUAL RYE @ 14 LBS. PER ACRE

LEGEND

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 4"

SEEDING, CLASS 4
TOPSOIL FURNISH AND PLACE, 4"

(A) NATIVE PLANTS NO MOWING VILLAGE OF LISLE — SIGN 12" x 18"

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-sht-pmk-lndscp.dgn | USER NAME = pocieche | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**PAVEMENT MARKING AND LANDSCAPING**

SCALE: 1"=20' | SHEET NO. 18 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 18 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | | |

GENERAL ELECTRICAL PLAN NOTES

1. THIS PROJECT INCLUDES THE INSTALLATION OF ELECTRICAL CONDUIT WITHIN THE PROPOSED BRIDGE PARAPET ON THE NORTH AND SOUTH SIDES OF THE BRIDGE.

2. THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER'S REVIEW WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT COPIES OF APPROVED MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE RESIDENT ENGINEER.

3. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

4. ALL NEW CONDUIT AND JUCTION BOXES ARE ILLUSTRATED DIAGRAMMATICALLY; THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.

5. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF LISLE TO LOCATE AND MARK/STAKE ALL VILLAGE OWNED UNDERGROUND UTILITIES.

6. JUNCTION BOX AND CONDUIT INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.

7. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

8. THE CONTRACTOR SHALL SUBMIT FULL SIZED COMPLETE AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW, COMMENT, AS SPECIFIED. "REPORDUCIBLE RECORD DRAWINGS" S BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.

**BILL OF MATERIALS**

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|---|---|---|---|
| 81200240 | CONDUIT EMBEDDED IN STRUCTURE, 2 1/2" DIA., PVC | FOOT | 330 |
| 81304700 | JUNCTION BOX EMBEDDED IN STRUCTURE 18"X18"X6" | EACH | 4 |

E-1

AMES Engineering, Inc.
Consulting Engineers
1341 Warren Avenue
Downers Grove, IL 60515

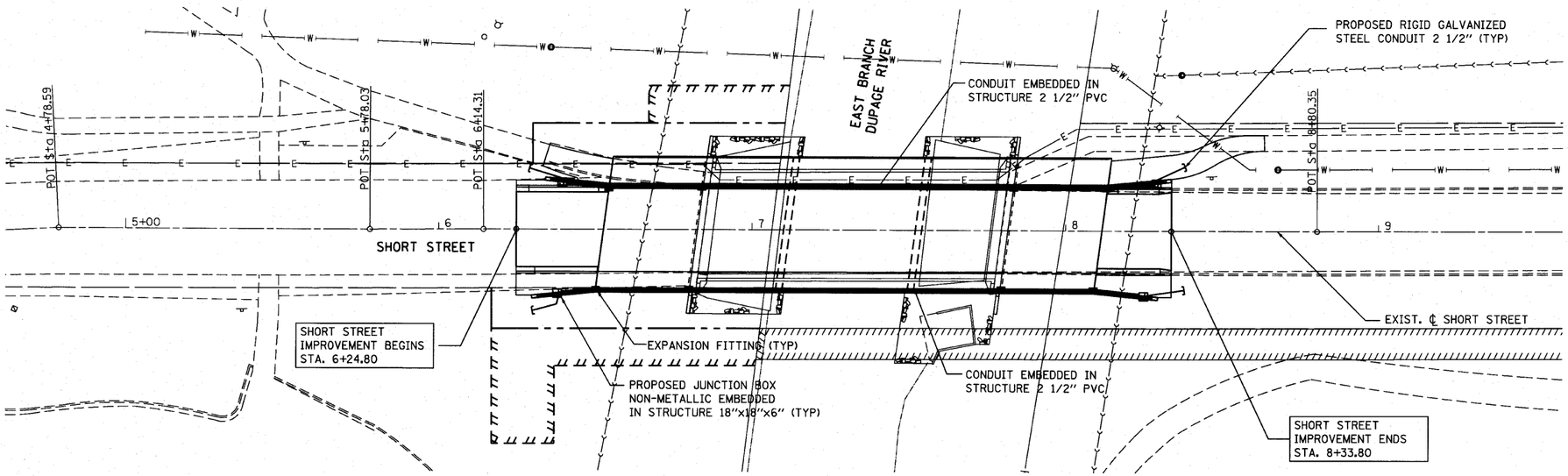
| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\Electrical\871-002-NOTES.dgn | USER NAME = pcalecha | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**GENERAL NOTES & BILL OF MATERIALS**

SCALE: 1"=20' | SHEET NO. 19 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 19 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |




NOTES:

1. SEE STRUCTURAL DRAWINGS FOR CONDUIT AND JUNCTION BOX IN BRIDGE STRUCTURE TO COORDINATE LOCATION.
2. SEE SHEET E-3 FOR CONDUIT EXPANSION FITTING DETAIL. THE EXPANSION FITTINGS ARE REQUIRED AT ALL LOCATIONS WHERE CONDUIT EXTENDS BETWEEN TWO CONCRETE SECTIONS THAT ARE CAPABLE OF HAVING RELATIVE MOVEMENTS.
3. SEE SHEET E-3 FOR JUNCTION BOX EMBEDDED IN STURCTURE DETAIL.

**LEGEND:**

- JUNCTION BOX NON-METALLIC EMBEDDED IN STRUCTURE 18"x18"x6" (TYP)
- CONDUIT EMBEDDED IN STRUCTURE
- RIGID GALVANIZED STEEL CONDUIT 2 1/2"
- EXPANSION FITTING

E-2

AMES Engineering, Inc.
Consulting Engineers
1341 Warren Avenue
Downers Grove, IL 60515

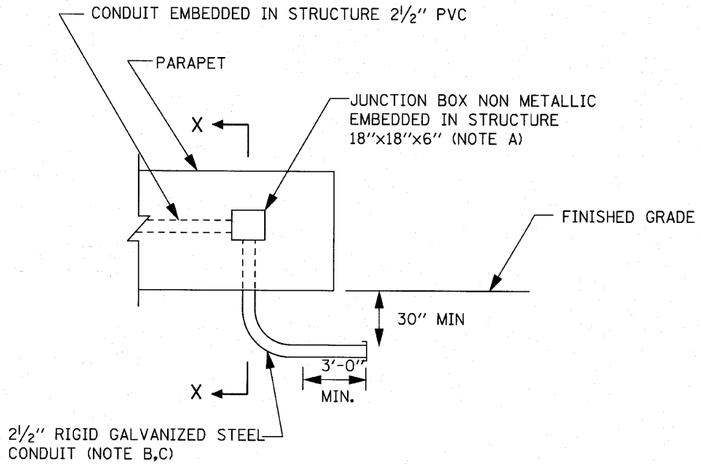
| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\Electrical\871-002-sht-light.dgn | USER NAME = pocieche | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

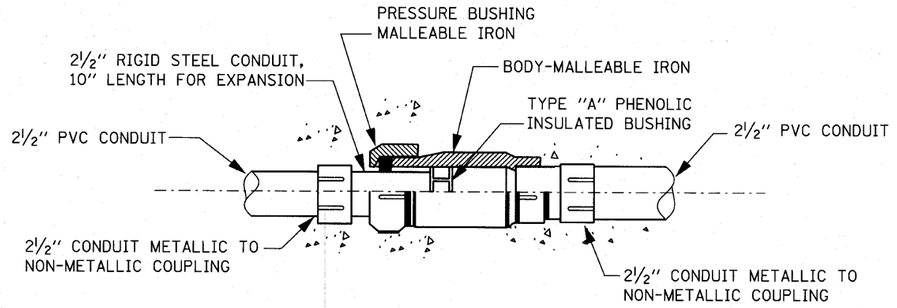
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**PROPOSED ELECTRICAL CONDUIT PLAN**

SCALE: 1"=20' | SHEET NO. 20 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 20 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |




JUNCTION BOX EMBEDDED IN STRUCTURE

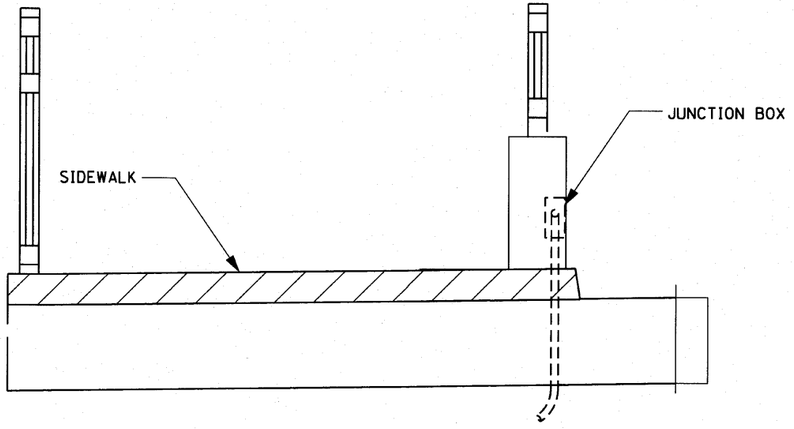



CONDUIT EXPANSION FITTING

USE O-Z GEDNEY AX-8-250,
OR APPROVED EQUAL

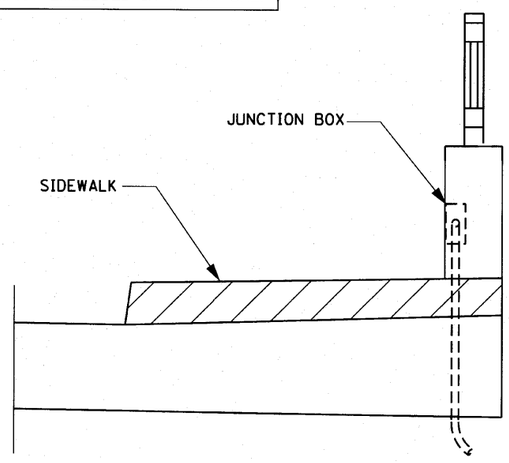
**NOTE:**
THE EXPANSION FITTINGS ARE REQUIRED AT ALL LOCATIONS WHERE CONDUIT EXTENDS BETWEEN TWO CONCRETE SECTIONS THAT ARE CAPABLE OF HAVING RELATIVE MOVEMENTS.

NOTE:
ALL FITTINGS, AND COUPLINGS SHALL BE INCLUDED IN THE COST OF CONDUIT EMBEDDED IN STRUCTURE.




*SECTION THRU PEDESTRIAN SCREEN*

*(Looking East)*




*SECTION THRU PARAPET*

*SECTION X-X*

*(Looking East)*

A. JUNCTION BOX SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATION IS REQUIRED WITH THE BRIDGE CONTRACTOR.

B. CONDUIT EMBEDDED IN STRUCTURE SHALL BE FURNISHED AND INSTALLED BY THE BRIDGE CONTRACTOR. COORDINATION WITH THE ELECTRICAL CONTRACTOR IS REQUIRED. COORDINATE CONDUIT PLACEMENT TO TERMINATE OUTSIDE OF PAVEMENT.

C. COST OF RIGID GALVANIZED STEEL RACEWAY SHALL BE INCLUDED WITH JUNCTION BOX NON METALLIC EMBEDDED IN STRUCTURE.



AMES Engineering, Inc.
Consulting Engineers
1341 Warren Avenue
Downers Grove, IL 60515

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\Electrical\871-002-sht-light_SECTIONS.dgn | USER NAME = pocsecha | DESIGNED - LP | REVISED - PER IDOT 07/29/10 |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 20.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 8/2/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**DETAILS**

SCALE: 1"=20' | SHEET NO. 21 OF 45 SHEETS | STA. 6+24.80 TO STA. 8+33.80

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 21 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS | FED. AID PROJECT BRM-8003 (676) | | |

Bench Mark: Cross cut on top of sidewalk situated east of the police squad car parking lot . Cross is 27.5' NW of water manhole and 50.6' west of fire hydrant. Elev. 665.37

Existing Structure: S.N. 022-6650, Original Construction date 1974. The bridge consists of a 2 span precast, prestressed concrete deck beam structure supported on a reinforced concrete solid wall pier on a spread footing and open abutments on wood or steel friction piles. The existing structure length is 95'-0" back to back of abutments and the width is 36'-6". Existing structure to be removed and replaced. Traffic to be detoured during construction.

Salvage: None

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

## DESIGN STRESSES
**FIELD UNITS**

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

## DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008, 2009 Interims

## LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

## SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. ($S_{D1}$) = 0.037g
Design Spectral Acceleration at 0.2 sec. ($S_{DS}$) = 0.100g
Soil Site Class = B

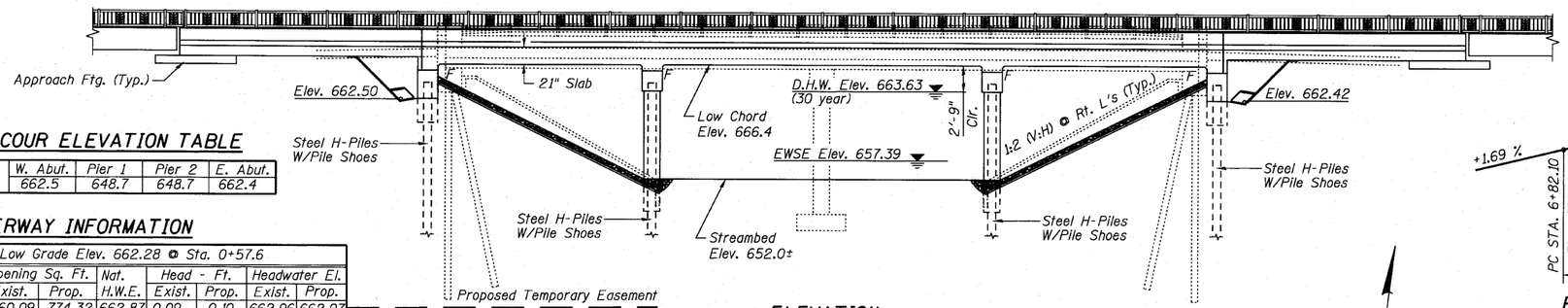
## DESIGN SCOUR ELEVATION TABLE

| Design Scour Elevation (ft.) | W. Abut. | Pier 1 | Pier 2 | E. Abut. |
|---|---|---|---|---|
| | 662.5 | 648.7 | 648.7 | 662.4 |

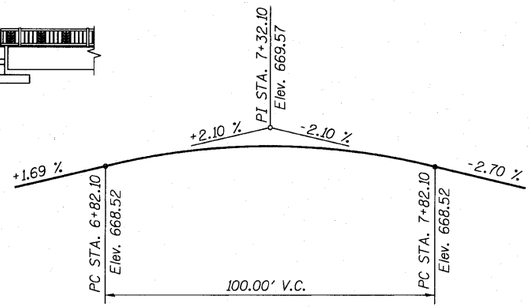
## WATERWAY INFORMATION

Drainage Area = 57.8 mi² Low Grade Elev. 662.28 @ Sta. 0+57.6

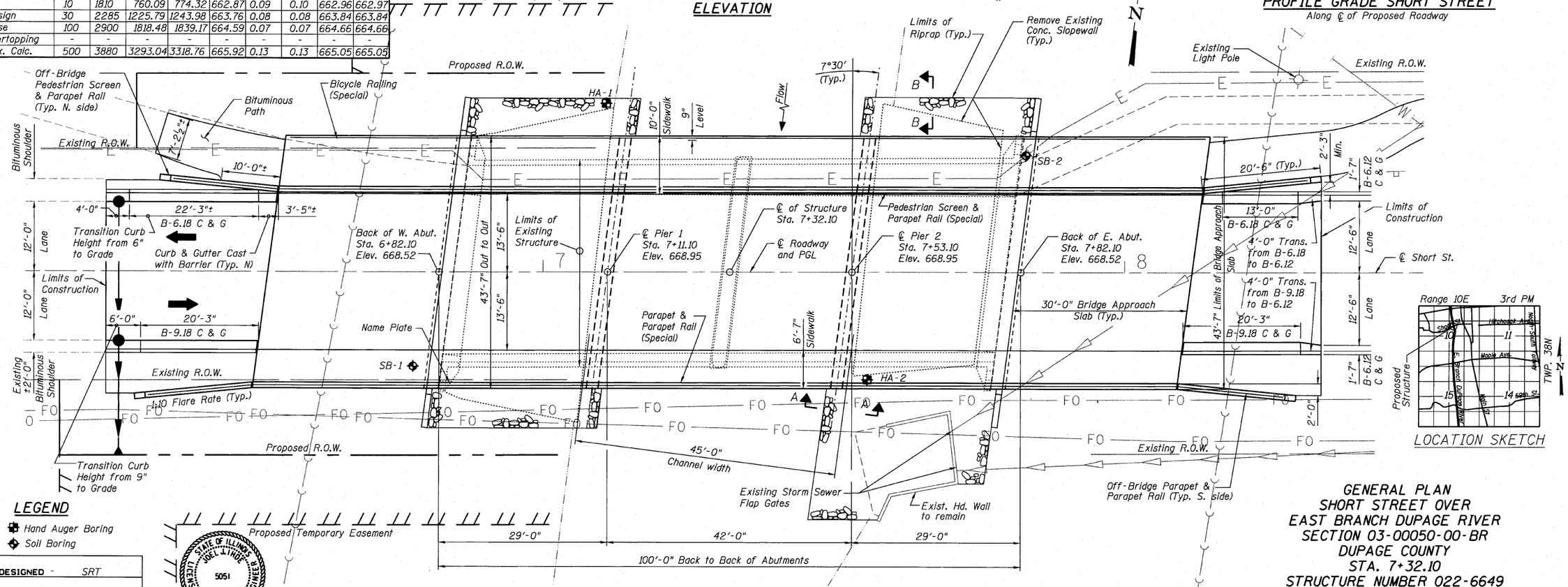
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. Exist. | Opening Sq. Ft. Prop. | Nat. H.W.E. | Head - Ft. Exist. | Head - Ft. Prop. | Headwater El. Exist. | Headwater El. Prop. |
|---|---|---|---|---|---|---|---|---|---|
| | 10 | 1810 | 760.09 | 774.32 | 662.87 | 0.09 | 0.10 | 662.96 | 662.97 |
| Design | 30 | 2285 | 1225.79 | 1243.98 | 663.76 | 0.08 | 0.08 | 663.84 | 663.84 |
| Base | 100 | 2900 | 1818.48 | 1839.17 | 664.59 | 0.07 | 0.07 | 664.66 | 664.66 |
| Overtopping | - | - | - | - | - | - | - | - | - |
| Max. Calc. | 500 | 3880 | 3293.04 | 3318.76 | 665.92 | 0.13 | 0.13 | 665.05 | 665.05 |




## ELEVATION




## PROFILE GRADE SHORT STREET
Along ℄ of Proposed Roadway




## PLAN




## LOCATION SKETCH

## LEGEND
- Hand Auger Boring
- Soil Boring

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | GM |
| CHECKED - | JJI |

STATE OF ILLINOIS JOEL J. LINDE 5051 ITASCA LICENSED STRUCTURAL ENGINEER

DATE SIGNED: 8-02-10
EXP. DATE: 11-30-10

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

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

## GENERAL PLAN
## SHORT STREET OVER
## EAST BRANCH DUPAGE RIVER
## SECTION 03-00050-00-BR
## DUPAGE COUNTY
## STA. 7+32.10
## STRUCTURE NUMBER 022-6649

| SHEET NO. 1 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 22 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

## GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

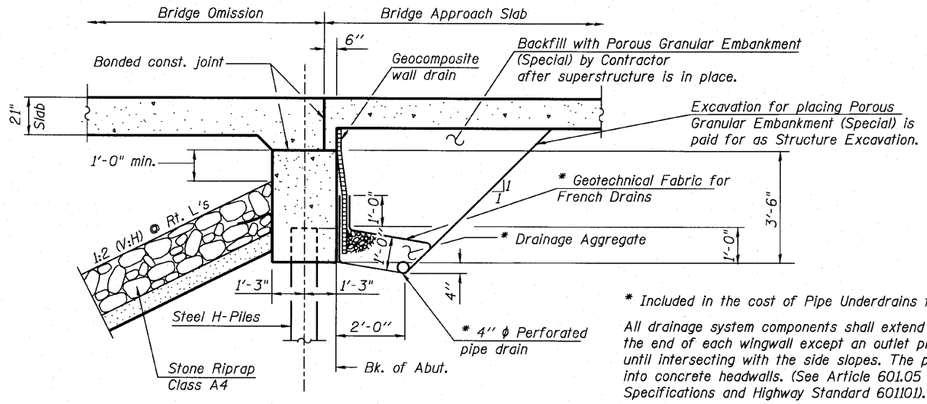
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

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

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

The Contractor shall excercise care during construction to locate existing substructure elements to prevent damage or conflicts with the new pile locations. If conflicts arise and modifications are required of the pile locations or design shown on the plans, the Structural Engineer or record should be notified for approval of revisions.

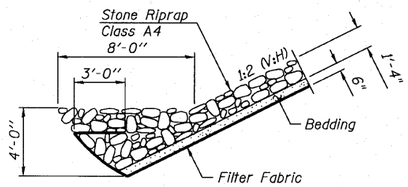
The Contractor's attention is directed to the posted load weight limit of 16 tons for vehicles on the existing structure. The contractor's operations shall not exceed the load limit. See Special Provision for "Demolition Plans for Removal of Existing Structures".



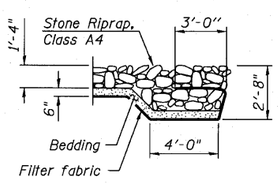

* Included in the cost of Pipe Underdrains for Structures.

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

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




### SECTION A-A




### SECTION B-B

## INDEX OF SHEETS



## TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---|---|---|---|---|
| Porous Granular Embankment (Special) | Cu. Yd. | - | 82 | 82 |
| Stone Riprap, Class A4 | Sq. Yd. | - | - | 442 |
| Filter Fabric | Sq. Yd. | - | - | 442 |
| Removal of Existing Structures | Each | - | - | 1 |
| Slope Wall Removal | Sq. Yd. | - | - | 272 |
| Structure Excavation | Cu. Yd. | - | 206 | 206 |
| Concrete Structures | Cu. Yd. | - | 163.6 | 163.6 |
| Concrete Superstructure | Cu. Yd. | 462.6 | - | 462.6 |
| Bridge Deck Grooving | Sq. Yd. | 442 | - | 442 |
| Concrete Encasement | Cu. Yd. | - | 11.4 | 11.4 |
| Protective Coat | Sq. Yd. | 921 | - | 921 |
| Reinforcement Bars, Epoxy Coated | Pound | 94,440 | 13,300 | 107,740 |
| Name Plates | Each | 1 | - | 1 |
| Geocomposite Wall Drain | Sq. Yd. | - | 62 | 62 |
| Pipe Underdrains for Structures, 4" | Foot | - | 132 | 132 |
| Underwater Structure Excavation Protection Location 1 | Each | - | 1 | 1 |
| Underwater Structure Excavation Protection Location 2 | Each | - | 1 | 1 |
| Furnishing Steel Piles, HP12x53 | Foot | - | 1178 | 1178 |
| Driving Piles | Foot | - | 1178 | 1178 |
| Test Pile Steel HP12x53 | Each | - | 4 | 4 |
| Pile Shoes | Each | - | 32 | 32 |
| Form Liner Textured Surface, Special | Sq. Ft. | 1677 | - | 1677 |
| Bicycle Railing, Special | Foot | 158 | - | 158 |
| Parapet Railing, Special | Foot | 391 | - | 391 |
| Concrete Superstructure, Special | Cu. Yd. | 58.5 | - | 58.5 |

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | JS |
| CHECKED - | JJI |

EAST BRANCH DUPAGE RIVER
BUILT BY
VILLAGE OF LISLE
SEC. 03-00050-00-BR
STA. 7+32.10
STR. NO. 022-6649 LOADING HL93

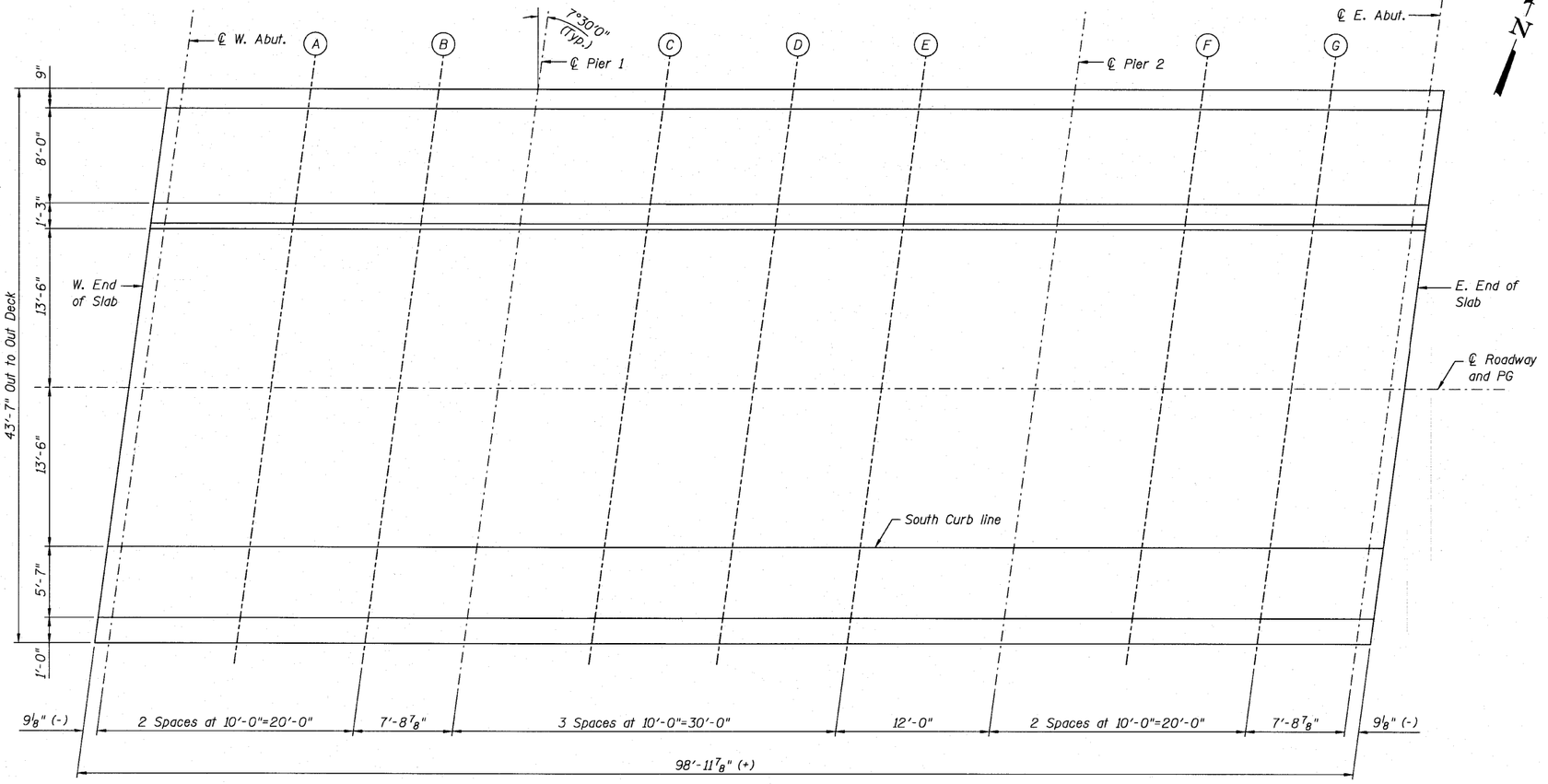
### NAME PLATE
See Std. 515001

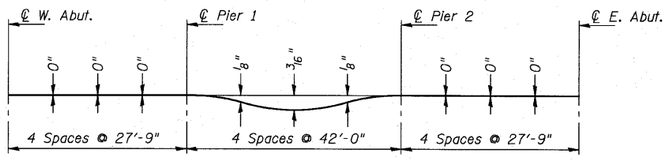
Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

GENERAL NOTES,
TOTAL BILL OF MATERIAL
AND INDEX OF SHEETS
STRUCTURE NUMBER 022-6649

| | | | | | |
|---|---|---|---|---|---|
| SHEET NO. 2 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 23 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




## DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet.

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | GM |
| CHECKED - | JJI |

## ℄ ROADWAY AND PG

| Location | Station | Offset (ft.) | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---|---|---|---|---|
| West End of Slab | 6+82.60 | 0.00 | 668.53 | 668.53 |
| ℄ W. Abut. | 6+83.36 | 0.00 | 668.55 | 668.55 |
| A | 6+93.36 | 0.00 | 668.73 | 668.73 |
| B | 7+03.36 | 0.00 | 668.87 | 668.87 |
| ℄ Pier 1 | 7+11.10 | 0.00 | 668.95 | 668.95 |
| C | 7+21.10 | 0.00 | 669.02 | 669.03 |
| D | 7+31.10 | 0.00 | 669.04 | 669.06 |
| E | 7+41.10 | 0.00 | 669.03 | 669.04 |
| ℄ Pier 2 | 7+53.10 | 0.00 | 668.95 | 668.95 |
| F | 7+63.10 | 0.00 | 668.84 | 668.84 |
| G | 7+73.10 | 0.00 | 668.69 | 668.69 |
| ℄ E. Abut. | 7+80.84 | 0.00 | 668.55 | 668.55 |
| East End of Slab | 7+81.60 | 0.00 | 668.53 | 668.53 |

## OFFET 23'-6" LEFT

| Location | Station | Offset (ft.) | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---|---|---|---|---|
| West Edge of Slab | 6+85.69 | -23.50 | 668.23 | 668.23 |
| ℄ W. Abut. | 6+86.45 | -23.50 | 668.24 | 668.24 |
| A | 6+96.45 | -23.50 | 668.41 | 668.41 |
| B | 7+06.45 | -23.50 | 668.54 | 668.54 |
| ℄ Pier 1 | 7+14.19 | -23.50 | 668.61 | 668.61 |
| C | 7+24.19 | -23.50 | 668.66 | 668.67 |
| D | 7+34.19 | -23.50 | 668.68 | 668.69 |
| E | 7+44.19 | -23.50 | 668.65 | 668.66 |
| ℄ Pier 2 | 7+56.19 | -23.50 | 668.56 | 668.56 |
| F | 7+66.19 | -23.50 | 668.43 | 668.43 |
| G | 7+76.19 | -23.50 | 668.27 | 668.27 |
| ℄ E. Abut. | 7+83.93 | -23.50 | 668.10 | 668.10 |
| East Edge of Slab | 7+84.69 | -23.50 | 668.08 | 668.08 |

## OFFSET 13'-6" RIGHT

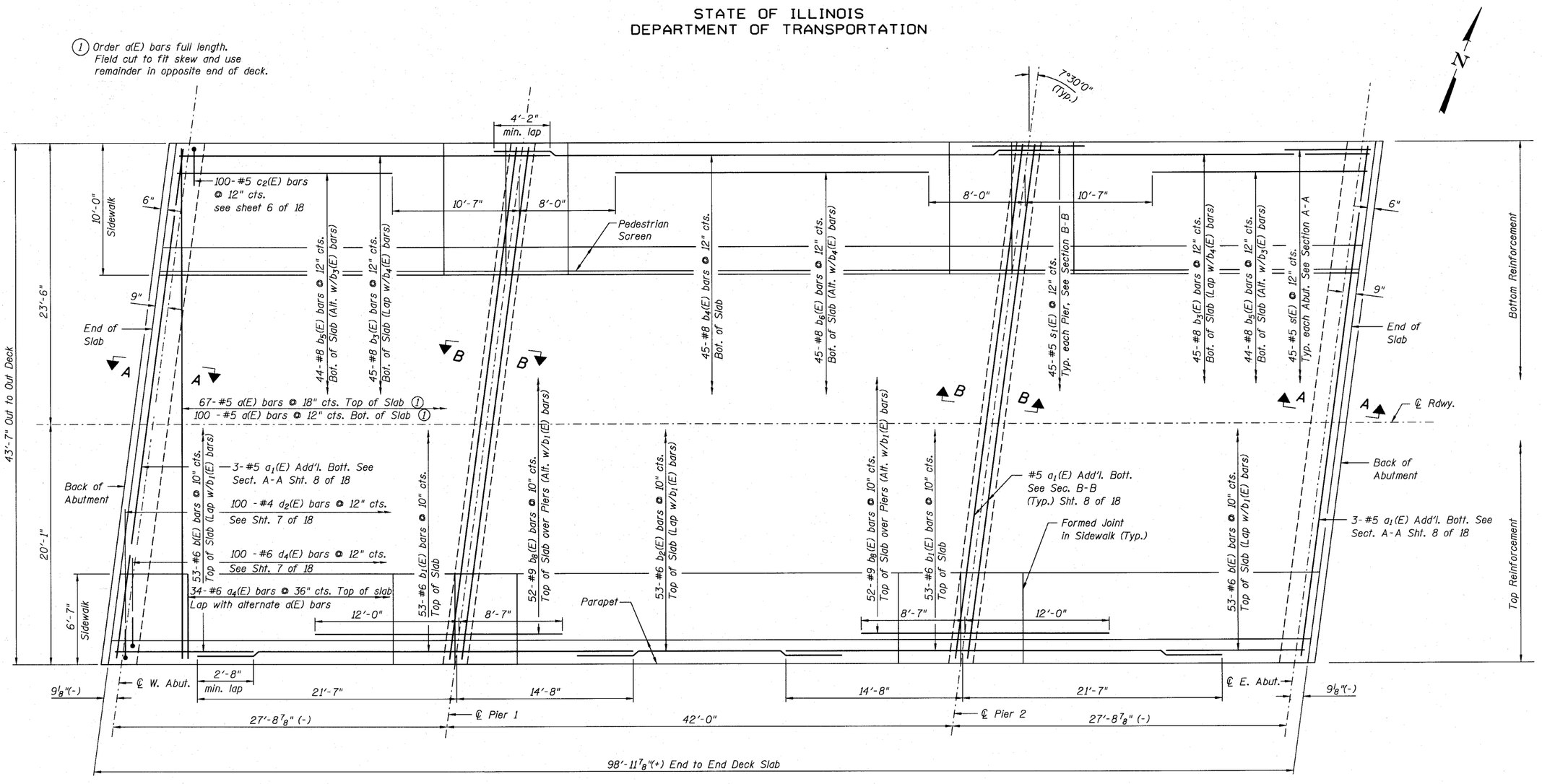
| Location | Station | Offset (ft.) | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---|---|---|---|---|
| West Edge of Slab | 6+80.82 | 13.50 | 668.29 | 668.29 |
| ℄ W. Abut. | 6+81.58 | 13.50 | 668.30 | 668.30 |
| A | 6+91.58 | 13.50 | 668.49 | 668.49 |
| B | 7+01.58 | 13.50 | 668.64 | 668.64 |
| ℄ Pier 1 | 7+09.32 | 13.50 | 668.73 | 668.73 |
| C | 7+19.32 | 13.50 | 668.80 | 668.81 |
| D | 7+29.32 | 13.50 | 668.83 | 668.85 |
| E | 7+39.32 | 13.50 | 668.82 | 668.83 |
| ℄ Pier 2 | 7+51.32 | 13.50 | 668.76 | 668.76 |
| F | 7+61.32 | 13.50 | 668.65 | 668.66 |
| G | 7+71.32 | 13.50 | 668.51 | 668.51 |
| ℄ E. Abut. | 7+79.06 | 13.50 | 668.37 | 668.37 |
| East Edge of Slab | 7+79.82 | 13.50 | 668.36 | 668.36 |

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 022-6649

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

| SHEET NO. 3 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 24 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




NOTES:

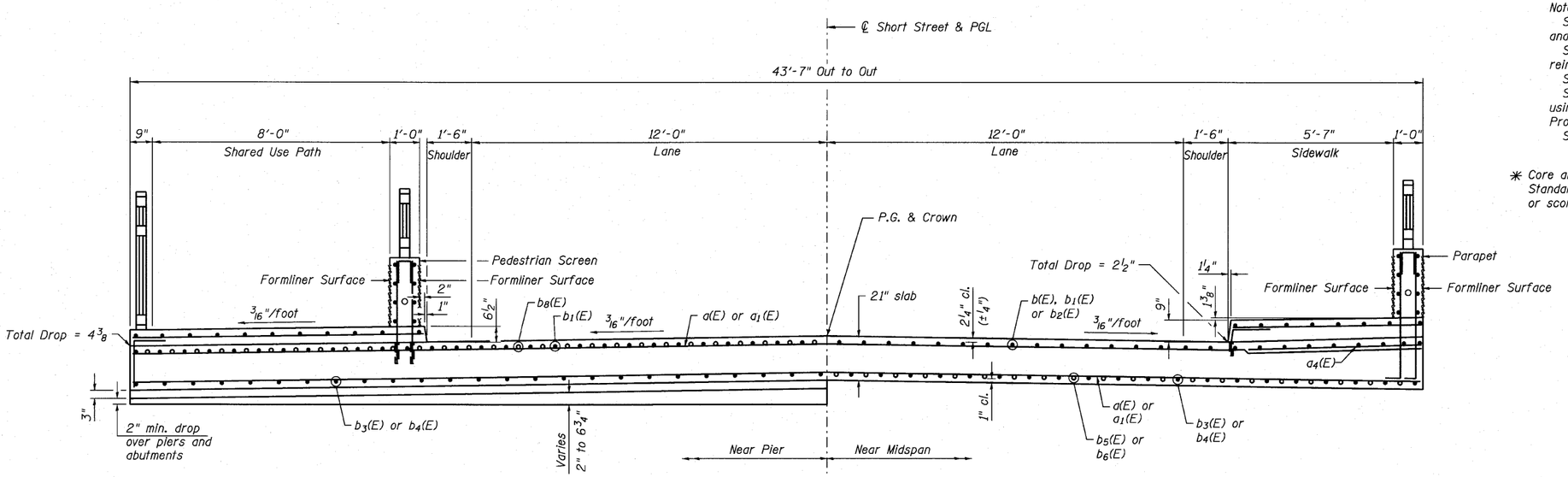
1. See Sheets 6, 7 and 8 of 18 for north sidewalk, south sidewalk, pedestrian screen and parapet details.
2. See Sheets 12 and 13 of 18 for railing details.
3. See Sheet 8 of 18 for Bill of Material.
4. See Sheet 8 of 18 for Sections A-A and B-B

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | GM |
| CHECKED - | JJI |

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

SUPERSTRUCTURE PLAN
STRUCTURE NUMBER 022-6649

| SHEET NO. 4 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 25 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |




CROSS SECTION

(Looking East)

Notes:

See Sheet 8 of 18 for superstructure details and Bill of Material.

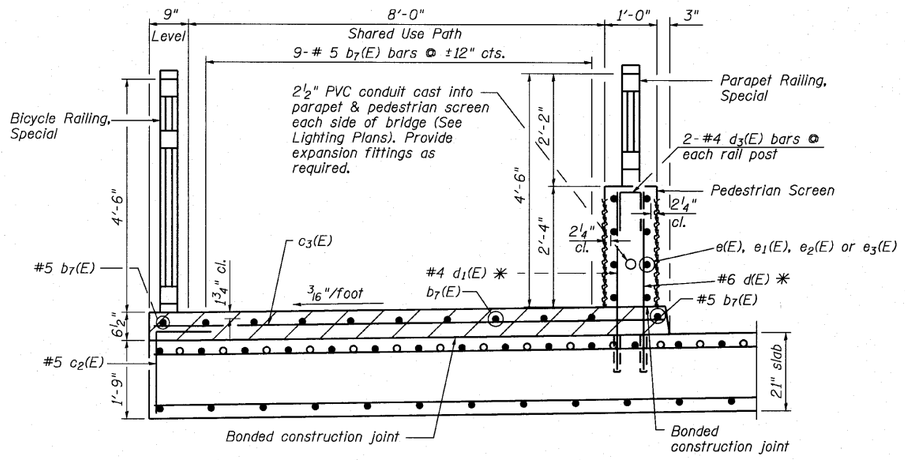
See Sheet 6 of 18 for Pedestrian Screen reinforcement.

See Sheet 7 of 18 for Parapet reinforcement.

Sidewalk and Shared Use Path shall be constructed using integrally colored concrete. See Special Provisions.

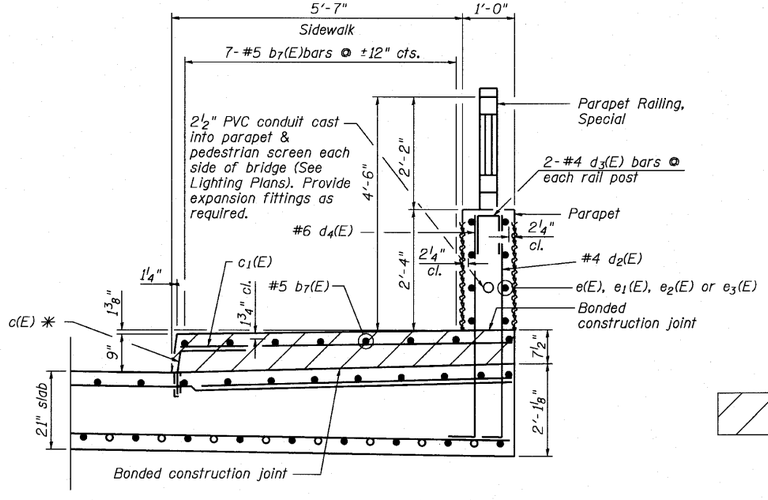
See Sheet 8 of 18 for limits of Formliner Surface.

✳ Core and set bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.




SECTION THRU PEDESTRIAN SCREEN

(Looking East)




SECTION THRU PARAPET

(Looking East)

▨ - Integrally Colored Concrete, Paid for as Concrete Superstructure, Special

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | GM |
| CHECKED - | JJI |

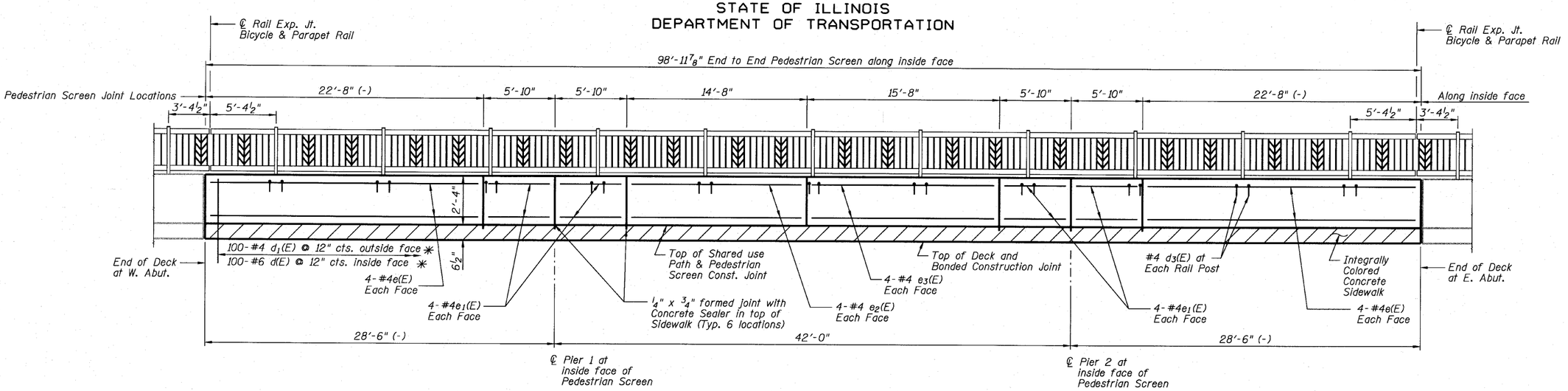
SUPERSTRUCTURE CROSS SECTIONS
STRUCTURE NUMBER 022-6649

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

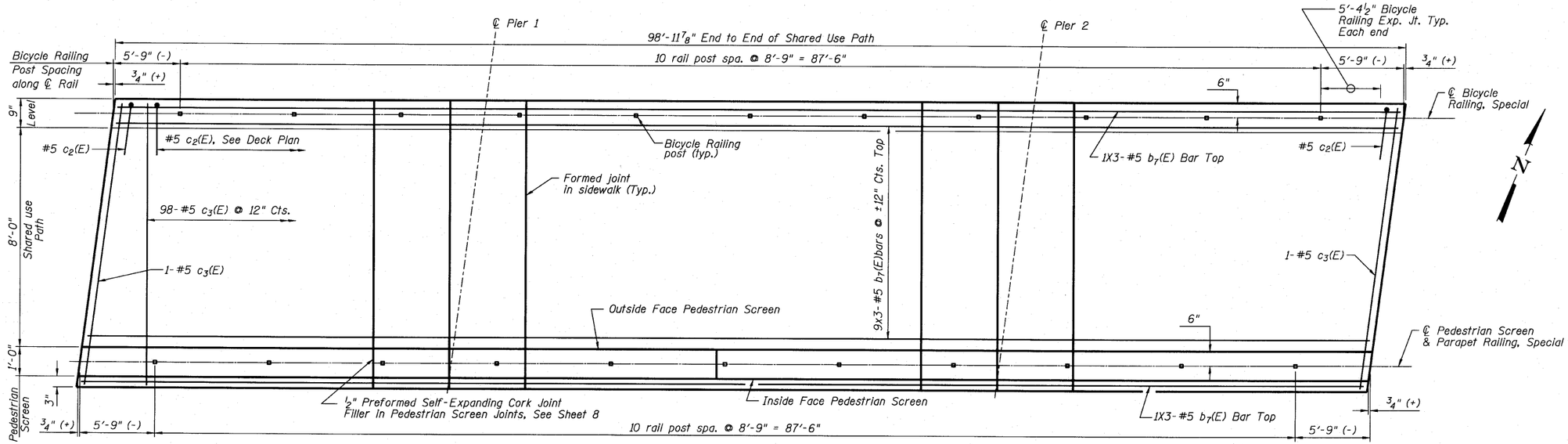
SHEET NO. 5
18 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| - | 03-00050-00-BR | DuPAGE | 45 | 26 |
| | | CONTRACT NO. 63468 | | |
| FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




## ELEVATION OF INSIDE FACE OF PEDESTRIAN SCREEN




## NORTH SHARED USE PATH AND PEDESTRIAN SCREEN PLAN

| | |
|---|---|
| DESIGNED - | SRT |
| CHECKED - | JJI |
| DRAWN - | GM |
| CHECKED - | JJJ |

- Integrally colored Concrete Paid for as Concrete Superstructure, Special

Notes:

For bar details see sheet 8 of 18.
For Railing details see sheets 12 and 13 of 18.
For Pedestrian Screen and Shared Use Path cross-section see sheet 5 of 18.
Bars indicated thus 8x3-#5 etc. indicates lines 8 of bars with 3 lengths per line.
#5 min. lap = 2'-6".
Shared Use Path shall be constructed using integrally colored concrete, See Special Provisions.

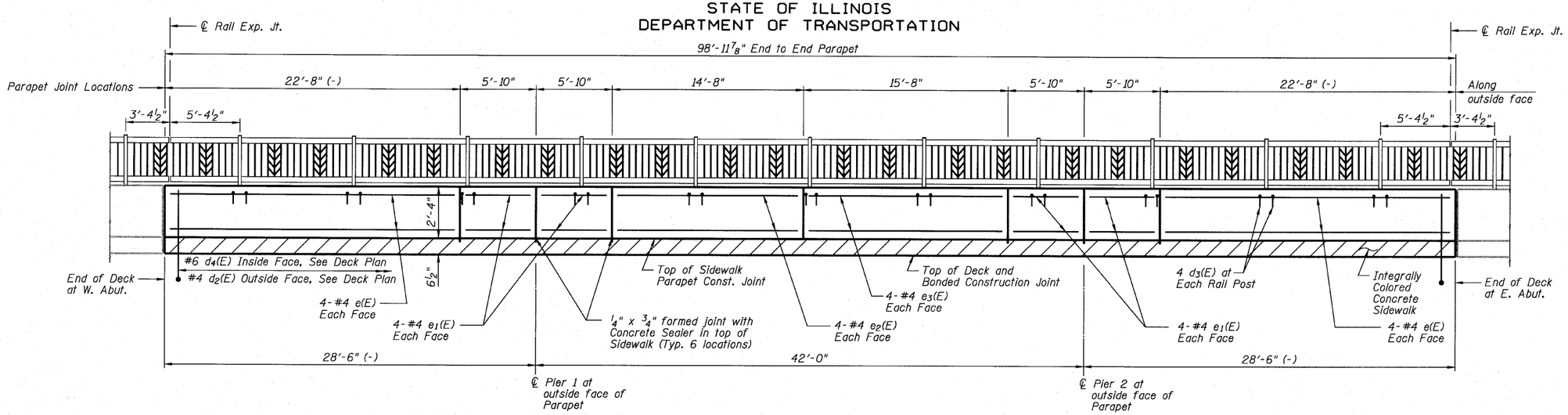
* Core and set bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

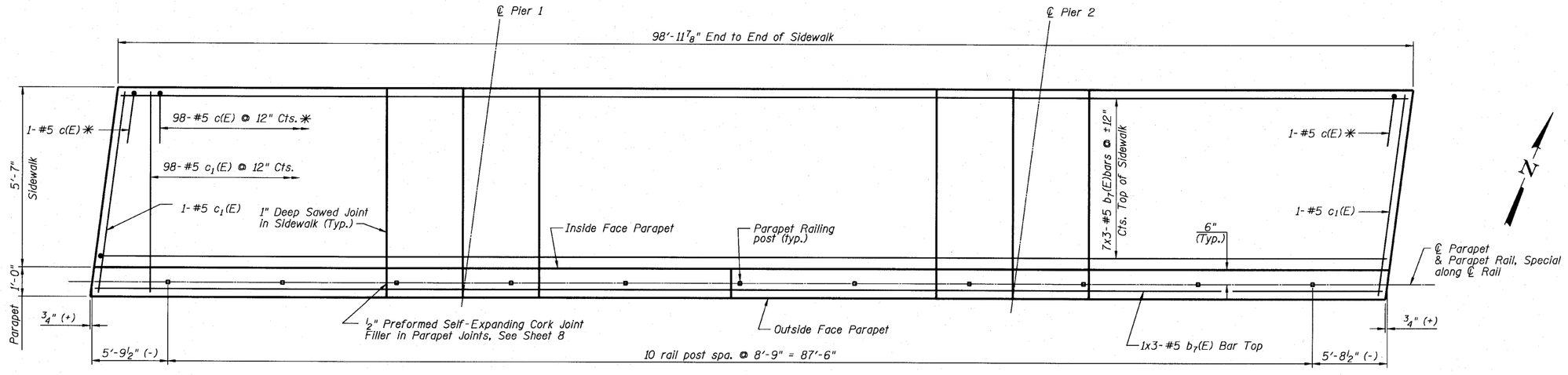
NORTH SIDEWALK
STRUCTURE NUMBER 022-6649

| SHEET NO. 6 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 27 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




## ELEVATION OF OUTSIDE FACE OF PARAPET




## SOUTH SIDEWALK AND PARAPET PLAN

| | | |
|---|---|---|
| DESIGNED | - | SRT |
| CHECKED | - | JJI |
| DRAWN | - | GM |
| CHECKED | - | JJI |

- Integrally colored Concrete Paid for as Concrete Superstructure, Special

Notes:

For bar details see sheet 8 of 18.
For Railing details see sheet 12 and 13 of 18.
For Parapet and Sidewalk cross-section see sheet 5 of 18.
Bars indicated thus 7x3-#5 etc. indicates lines 7 of bars with 3 lengths per line.
#5 min. lap = 2'-6".
Sidewalk shall be constructed using integrally colored concrete, See Special Provisions.

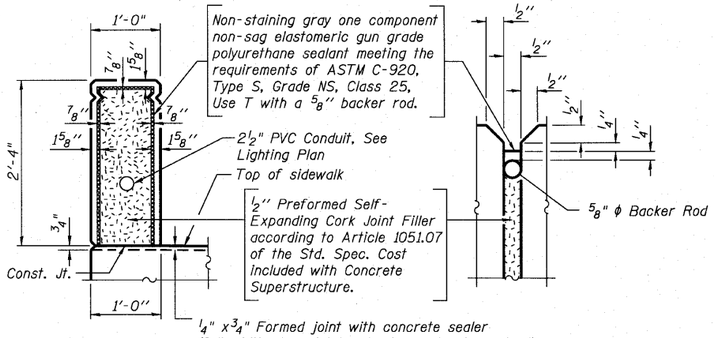
✳ Core and set bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

SOUTH SIDEWALK
STRUCTURE NUMBER 022-6649

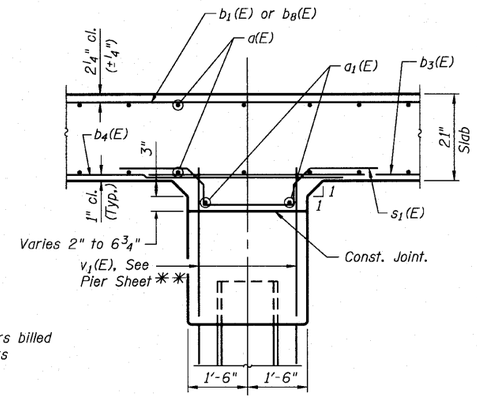
| SHEET NO. 7 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 28 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



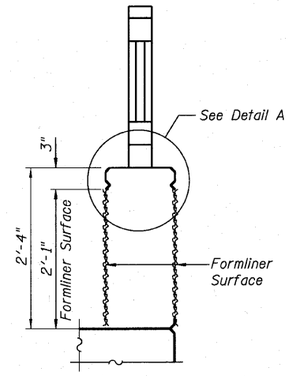

## PARAPET JOINT DETAILS

(Pedestrian Screen Similar)




** $v_1(E)$ bars billed with piers

## SECTION B-B

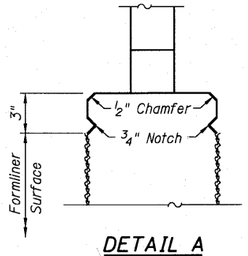



## PARAPET FORMLINER

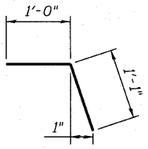
(Pedestrian Screen Similar)

## SUPERSTRUCTURE BILL OF MATERIAL

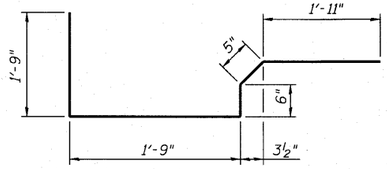
| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| d(E) | 167 | #5 | 43'-3" | |
| $a_1(E)$ | 10 | #5 | 43'-7" | |
| $a_4(E)$ | 34 | #6 | 6'-6" | |
| | | | | |
| b(E) | 106 | #6 | 9'-5" | |
| $b_1(E)$ | 106 | #6 | 36'-3" | |
| $b_2(E)$ | 53 | #6 | 18'-0" | |
| $b_3(E)$ | 90 | #8 | 31'-6" | |
| $b_4(E)$ | 45 | #8 | 46'-2" | |
| $b_5(E)$ | 88 | #8 | 18'-10" | |
| $b_6(E)$ | 44 | #8 | 26'-0" | |
| $b_7(E)$ | 57 | #5 | 34'-8" | |
| $b_8(E)$ | 104 | #9 | 20'-7" | |
| | | | | |
| c(E) | 100 | #5 | 2'-1" | |
| $c_1(E)$ | 100 | #5 | 6'-3" | |
| $c_2(E)$ | 100 | #5 | 3'-0" | |
| $c_3(E)$ | 100 | #5 | 9'-7" | |
| | | | | |
| d(E) | 100 | #6 | 3'-3" | |
| $d_1(E)$ | 100 | #4 | 3'-3" | |
| $d_2(E)$ | 100 | #4 | 5'-7" | |
| $d_3(E)$ | 88 | #4 | 2'-0" | |
| $d_4(E)$ | 88 | #6 | 5'-11" | |
| | | | | |
| e(E) | 32 | #4 | 22'-4" | |
| $e_1(E)$ | 64 | #4 | 5'-6" | |
| $e_2(E)$ | 16 | #4 | 14'-4" | |
| $e_3(E)$ | 16 | #4 | 15'-4" | |
| | | | | |
| s(E) | 90 | #5 | 6'-4" | |
| $s_1(E)$ | 90 | #5 | 6'-1" | |
| Reinforcement Bars, Epoxy Coated | | Pound | 53,320 | |
| Concrete Superstructure | | Cu. Yd. | 311.3 | |
| Bridge Deck Grooving | | Sq. Yd. | 275 | |
| Protective Coat | | Sq. Yd. | 538 | |
| Form Liner Textured Surface, Special | | Sq. Ft. | 825 | |
| Concrete Superstructure, Special | | Cu. Yd. | 36.3 | |



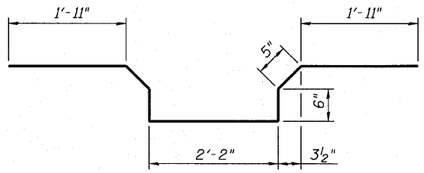

## DETAIL A



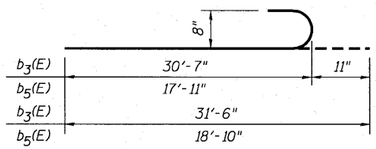

## BAR c(E)



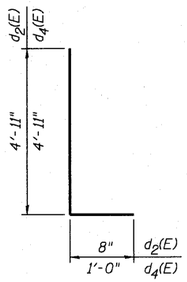

## BAR s(E)



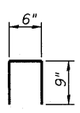

## BAR $s_1(E)$



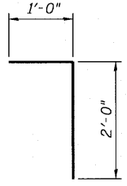

## BAR $b_3(E)$ & $b_5(E)$



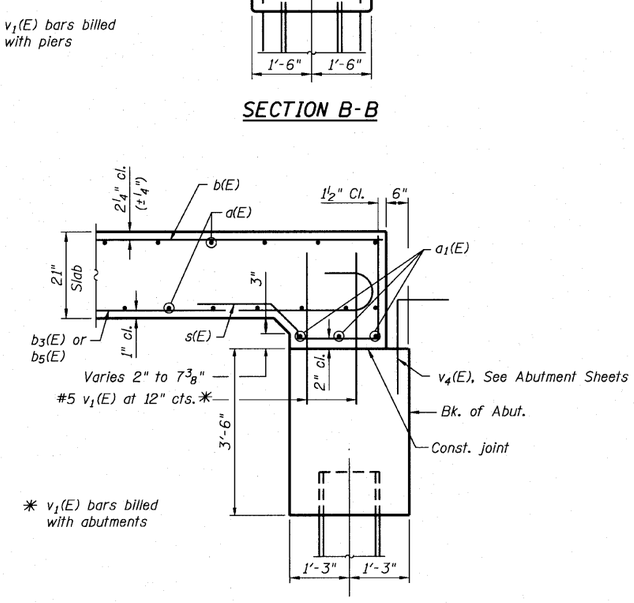

## BAR $d_2(E)$ & $d_4(E)$




## BAR $d_3(E)$

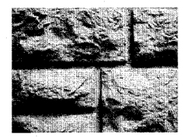


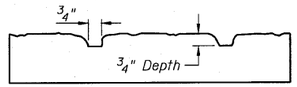

## BAR $c_2(E)$




* $v_1(E)$ bars billed with abutments

## SECTION A-A






## FORM LINER TEXTURE DETAIL

*See Special Provisions*

Note:

Form Liner Textured Surface to be used on inside and outside faces of Parapet and Pedestrian Screen. Utilize Fitzgerald Formliners formliner pattern #17027 or equivalent.

The depth of relief of the Form Liner Textured Surface is limited to 3/4". The relief should not compromise the reinforcement clearance in the Parapet or Pedestrian Screen.

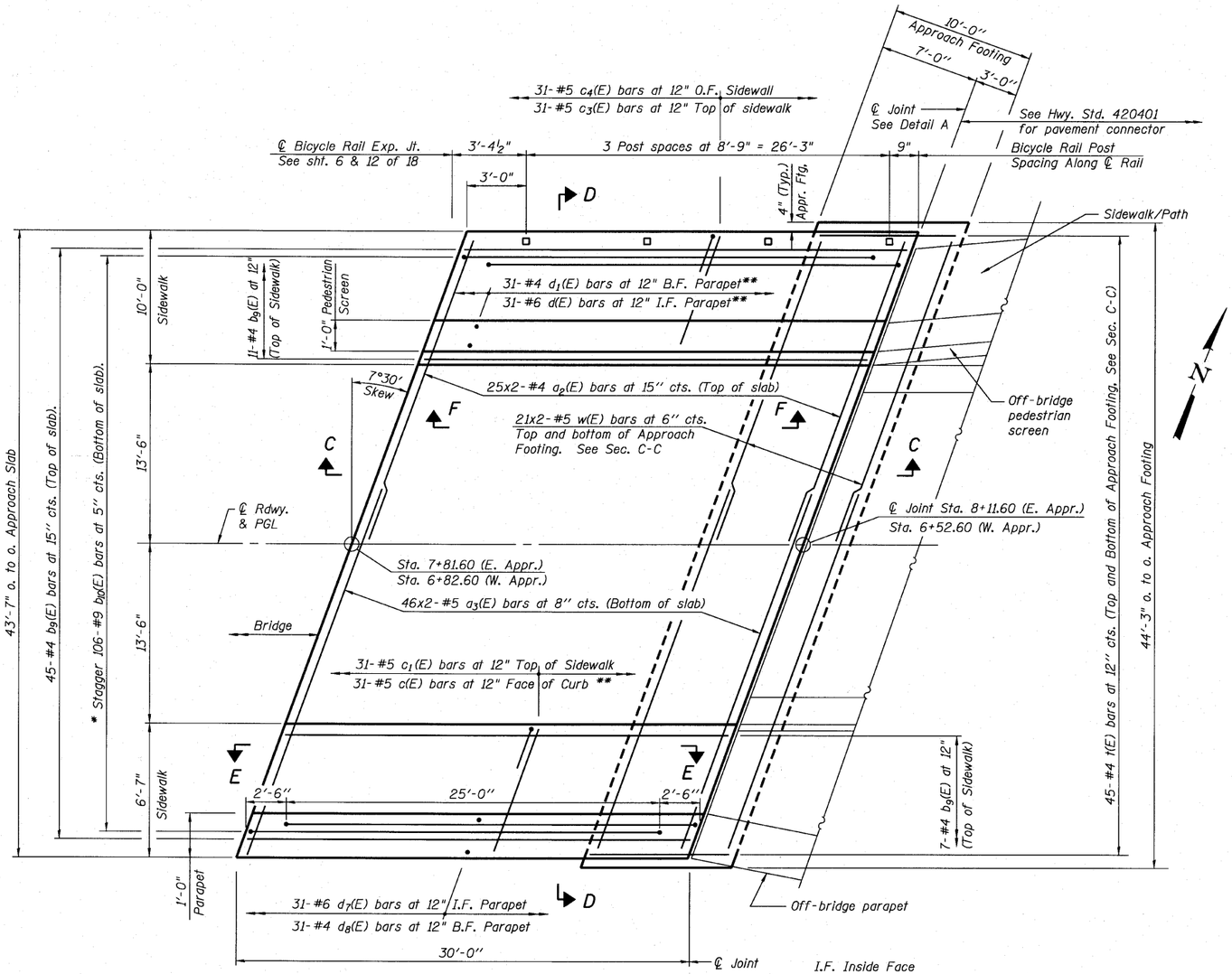
## SUPERSTRUCTURE DETAILS
## STRUCTURE NUMBER 022-6649

| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

| SHEET NO. 8 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 29 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




I.F. Inside Face
B.F. Back Face
O.F. Outside Face

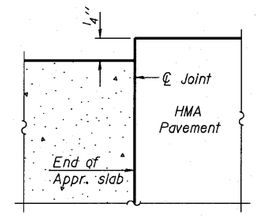
## EAST APPROACH PLAN

West Approach Slab Similar

Notes:
See sheet 10 of 18 for Sections and Views.
$a_2(E)$ and $a_3(E)$ bar spacings measured along ℄ Rdwy.

Bars indicated thus 21x2-#5 etc. indicates 21 lines of bars with 2 lengths per line.

* Tilt #9 $b_{10}(E)$ bars as required to maintain clearance.
** Core and set bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.




FLEXIBLE PAVEMENT

## DETAIL A

## MINIMUM BAR LAP

#4 bars = 1'-10"
#5 bars = 2'-3"

| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

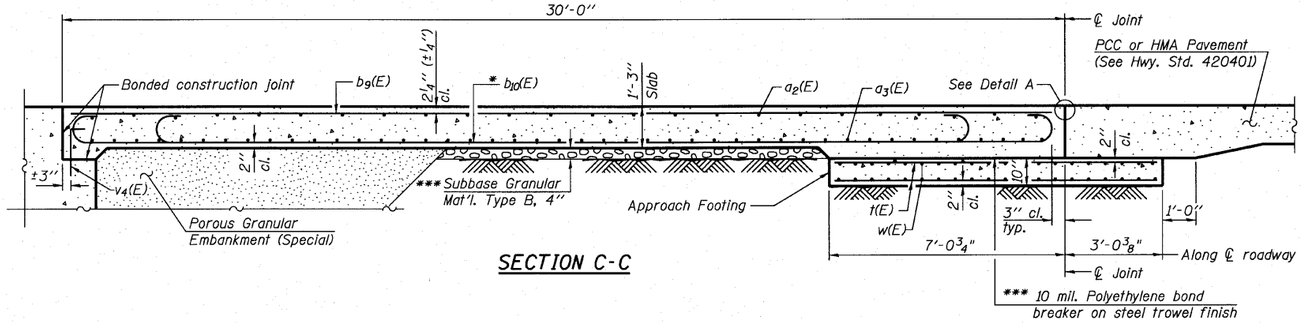
BA-L 11-1-09

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

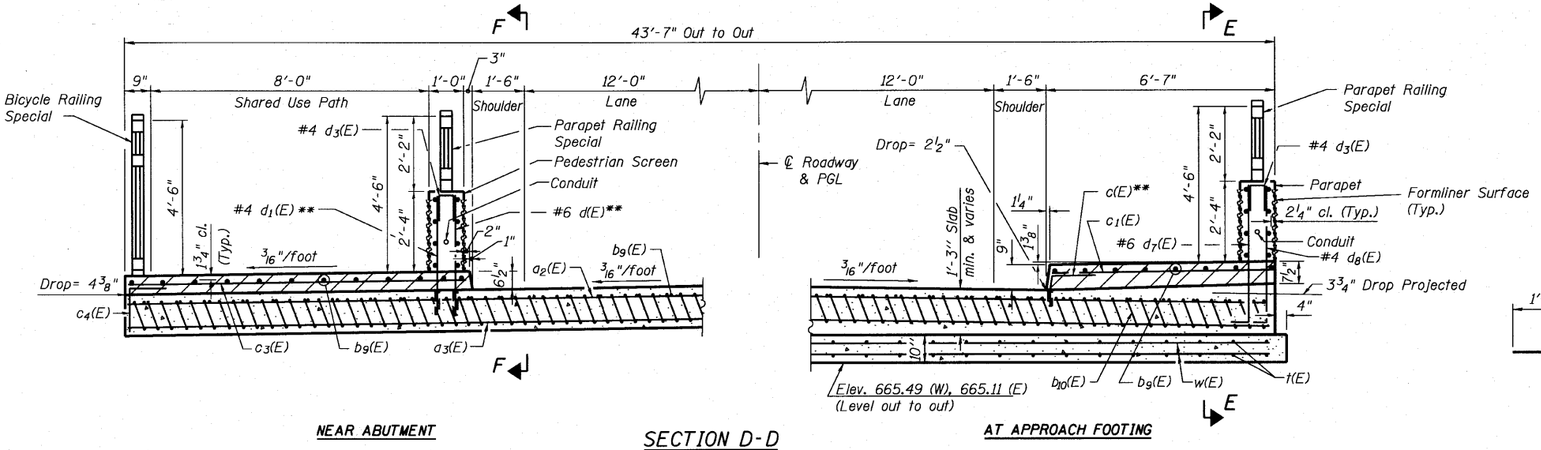
BRIDGE APPROACH SLAB
STRUCTURE NUMBER 022-6649

| SHEET NO. 9 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 30 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



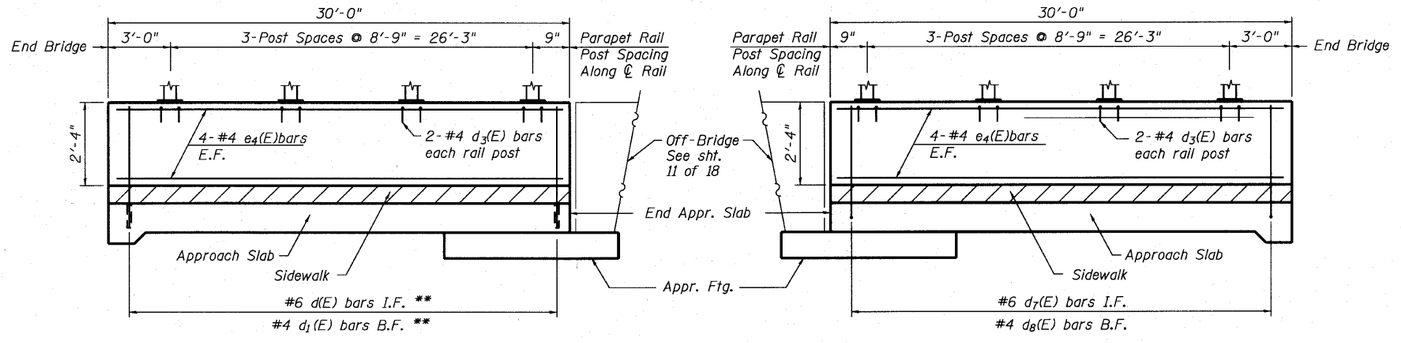

SECTION C-C




NEAR ABUTMENT

SECTION D-D
Looking East
(See Plan for dimensions not shown)

AT APPROACH FOOTING




VIEW F-F
(North Pedestrian Screen)

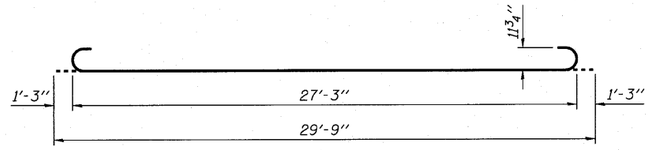
VIEW E-E
(South Parapet)

Notes:
See sheet 9 of 18 for Detail A.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Sidewalk shall be paid for as Concrete Superstructure, Special.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v (E) bar details, see sheets 14 and 15 of 18.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach slab and footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 18.
For formliner details, see sheet 8 of 18.
For railing details, see sheet 12 of 18.
For conduit details, see sheet 5 of 18.

* Tilt #9 $b_{10}$ (E) bars as required to maintain clearance.

** Core and set bars according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations.

*** Cost included with Concrete Superstructure.




BAR $b_{10}$(E)

TWO APPROACHES
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $a_2$(E) | 100 | #4 | 22'-11" | |
| $a_3$(E) | 184 | #5 | 23'-2" | |
| | | | | |
| $b_9$(E) | 108 | #4 | 29'-8" | |
| $b_{10}$(E) | 212 | #9 | 29'-9" | |
| | | | | |
| c(E) | 62 | #5 | 2'-1" | |
| $c_1$(E) | 62 | #5 | 6'-3" | |
| $c_3$(E) | 62 | #5 | 9'-7" | |
| $c_4$(E) | 62 | #5 | 2'-10" | |
| | | | | |
| d(E) | 62 | #6 | 3'-3" | |
| $d_1$(E) | 62 | #4 | 3'-3" | |
| $d_3$(E) | 32 | #4 | 2'-0" | |
| $d_7$(E) | 62 | #6 | 5'-2" | |
| $d_8$(E) | 62 | #4 | 4'-10" | |
| | | | | |
| $e_4$(E) | 32 | #4 | 29'-8" | |
| | | | | |
| t(E) | 180 | #4 | 9'-9" | |
| | | | | |
| w(E) | 168 | #5 | 23'-4" | |
| | | | | |
| Concrete Superstructure | | | Cu. Yd. | 139.2 |
| Concrete Structures | | | Cu. Yd. | 27.2 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 37,970 |
| Protective Coat | | | Sq. Yd. | 350 |
| Concrete Superstructure, Special | | | Cu. Yd. | 22.2 |
| Form Liner Textured Surface, Special | | | Sq. Ft. | 500 |
| Bridge Deck Grooving | | | Sq. Yd. | 167 |




BAR c(E)




BAR $d_3$(E)




BAR $d_7$(E)




BAR $c_4$(E)




BAR $d_8$(E)

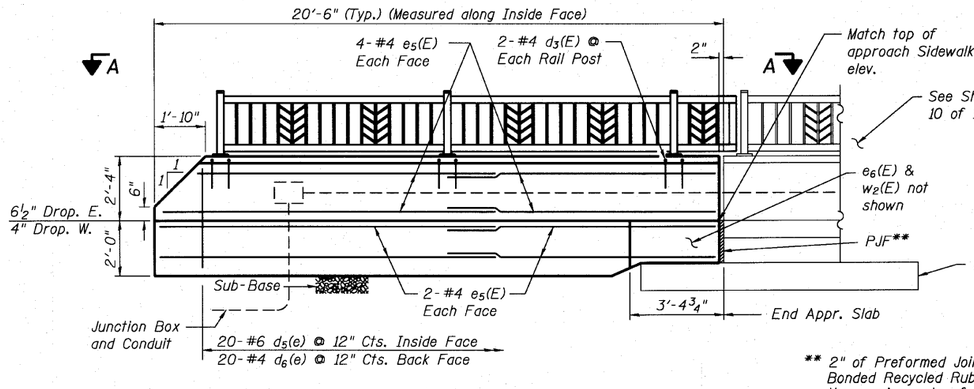
| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

- Integrally colored Concrete Paid for as Concrete Superstructure, Special

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

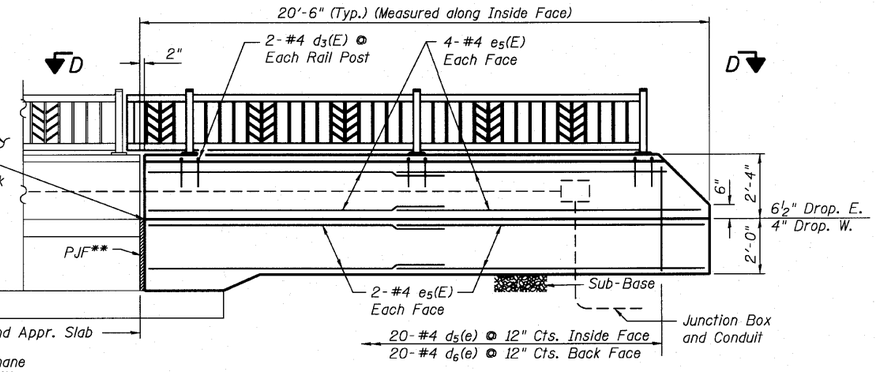
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NUMBER 022-6649

| SHEET NO. 10 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 31 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |




## INSIDE ELEVATION WEST OFF-BRIDGE PEDESTRIAN SCREEN

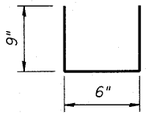
(Looking North, East Similar)



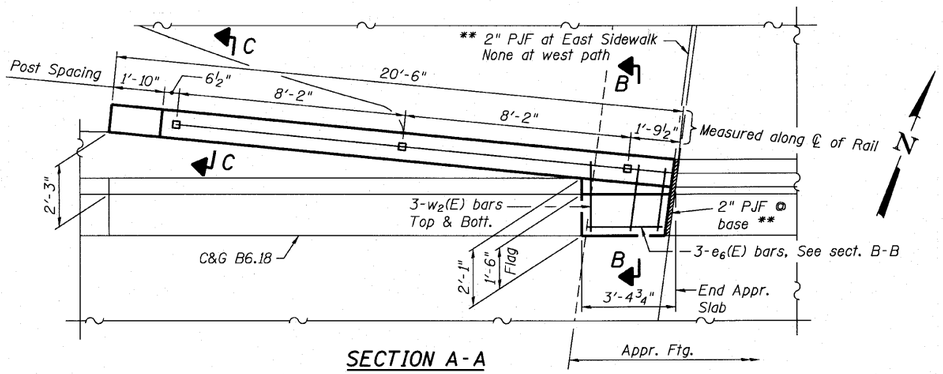

## INSIDE ELEVATION WEST OFF-BRIDGE PARAPET

(Looking South, East Similar)

** 2" of Preformed Joint Filler, Polyurethane Bonded Recycled Rubber conforming with the requirements of AASHTO M 153, Type IV. Attach all layers of PJF with adhesive, fasteners not allowed. Cost included in Concrete Superstructure.



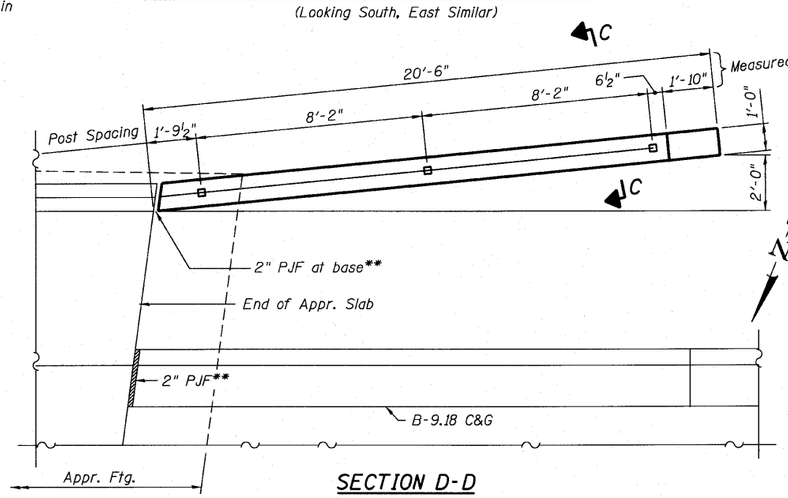

BAR $d_3(E)$




## SECTION A-A

## PLAN OFF-BRIDGE PEDESTRIAN SCREEN

(West, East Similar)




## SECTION D-D

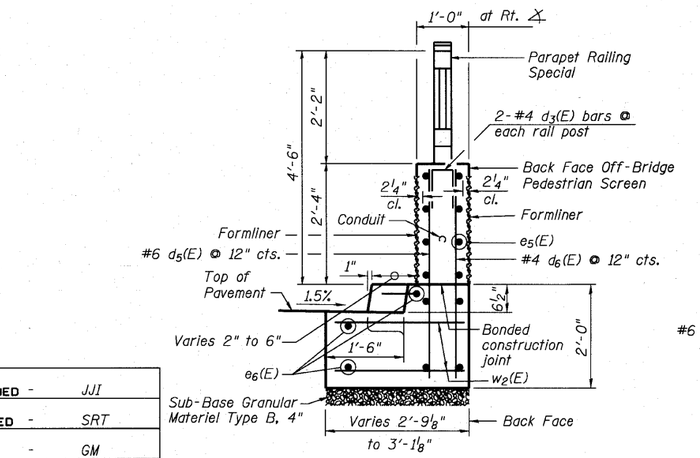
## PLAN OFF-BRIDGE PARAPET

(West, East similar)

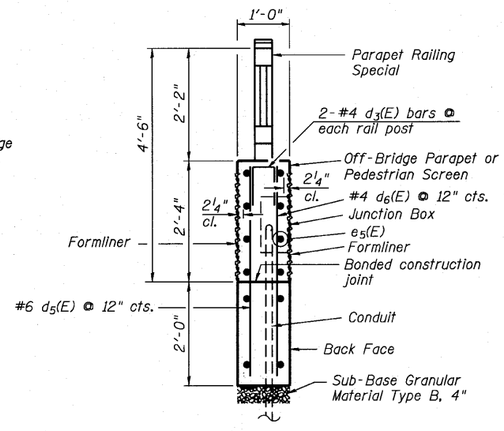
## BILL OF MATERIAL

(Total for Off-Bridge Parapet & Pedestrian Screens)

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $d_3(E)$ | 24 | #4 | 2'-0" | ⊔ |
| $d_5(E)$ | 80 | #6 | 4'-0" | —— |
| $d_6(E)$ | 80 | #4 | 4'-0" | —— |
| | | | | |
| $e_5(E)$ | 48 | #4 | 11'-2" | —— |
| $e_6(E)$ | 24 | #4 | 2'-9" | —— |
| | | | | |
| $w_2(E)$ | 12 | #4 | 2'-6" | —— |
| | | | | |
| Concrete Superstructure | | | Cu. Yd. | 12.1 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1150 |
| Parapet Railing, Special | | | Foot | 75 |
| Protective Coat | | | Sq. Yd. | 33 |
| Form Liner Textured Surface, Special | | | Sq. Ft. | 342 |




## SECTION B-B




## SECTION C-C

NOTES:

1. For Parapet Railing details not shown see sht. 13 of 18.
2. Sub-Base Material, excavation and backfill required for off-bridge parapet and pedestrian screen construction is included Concrete Superstructure.
3. See Superstructure Details for formliner details, sht. 8 of 18.
4. Min. lap #4 bars 1'-10".

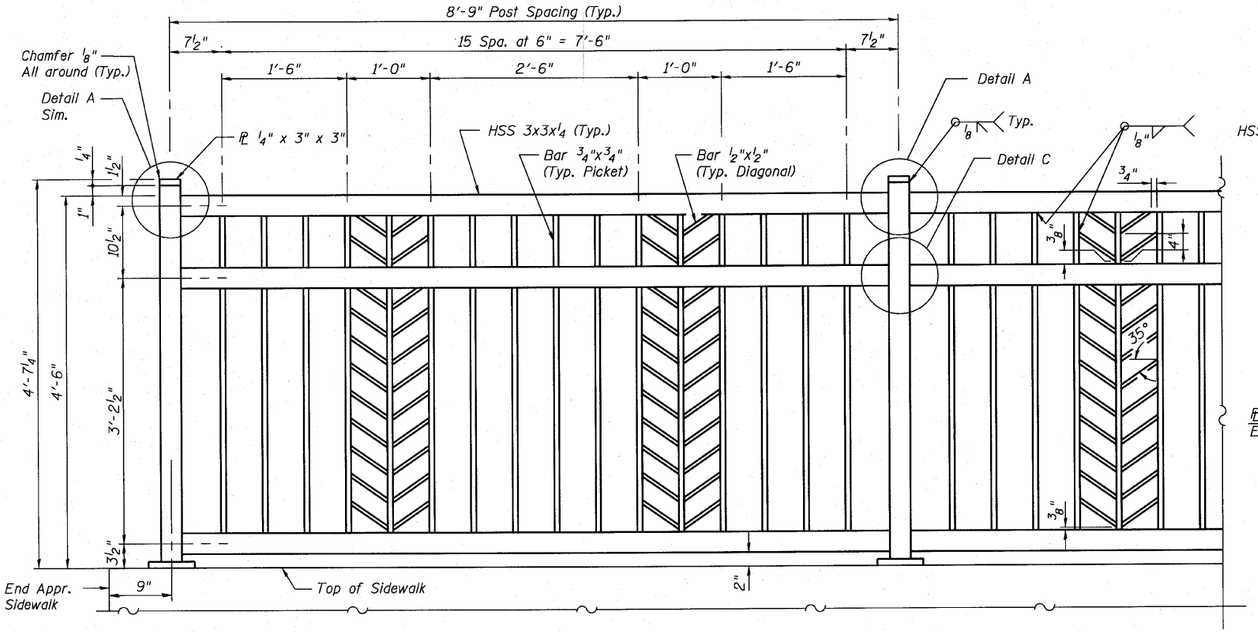
| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

OFF-BRIDGE PARAPET & PEDESTRIAN SCREEN
STRUCTURE NUMBER 022-6649

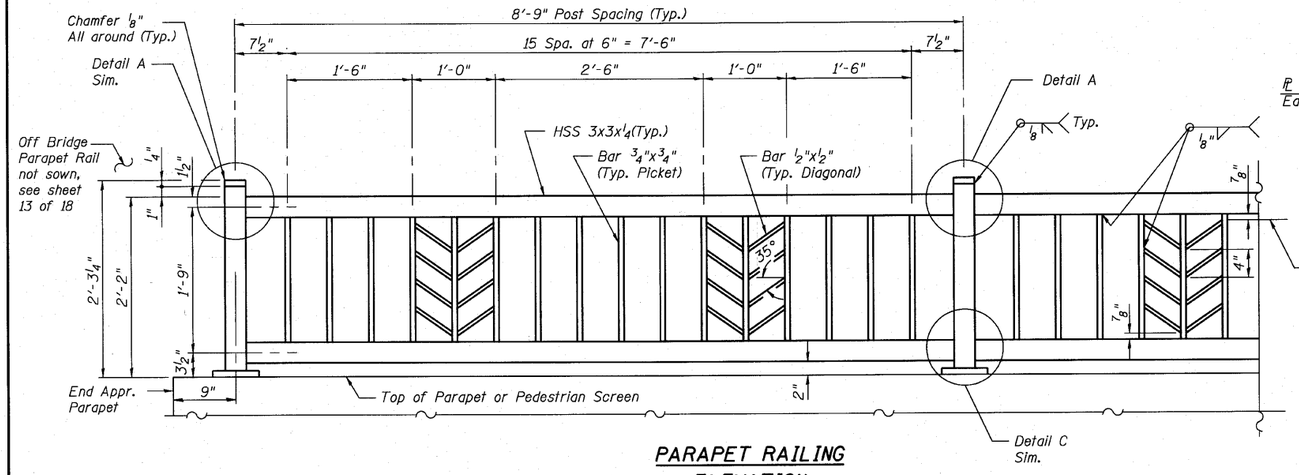
Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

| SHEET NO. 11 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 32 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

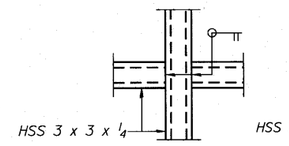
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



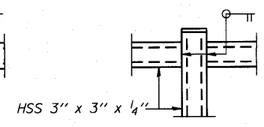

BICYCLE RAILING




PARAPET RAILING
ELEVATION




DETAIL C




DETAIL A

Notes:
For Anchor Bolt Details and Off-Bridge Parapet Railing See Sht. 13 of 18

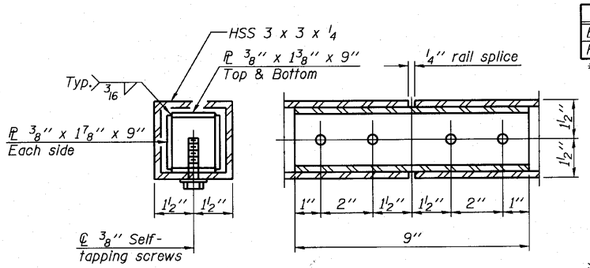
All post, railing, splices, anchor devices, and bent plates shall be completely shop painted using the Organic Zinc-Rich Paint System. The color of the final finish coat shall be Federal Standard No. 595, color chip 17038 (Gloss Black). See Special Provisions for "Cleaning and Painting New Metal Structures", and "Organic Zinc-Rich Paint System".

All erection and handling damage to the shop applied paint system shall be repaired in accordance with the Special Provision "Cleaning and Painting New Metal Structures".

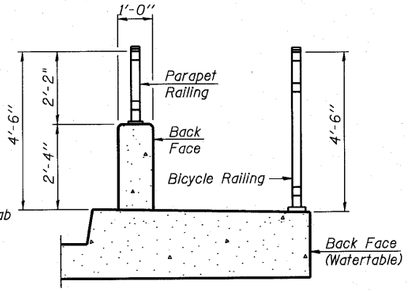
BILL OF MATERIAL *

| Item | Unit | Quantity |
|---|---|---|
| Bicycle Railing (Special) | Foot | 158 |
| Parapet Railing (Special) | Foot | 316 |

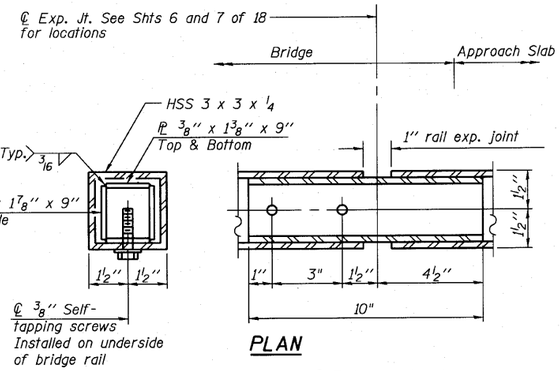
* Rail on bridge and appr. slab.



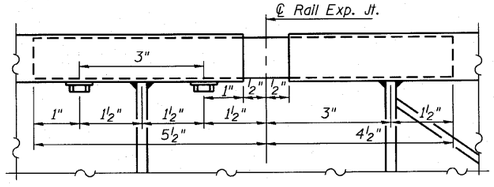

RAIL SPLICE




SECTION THRU SIDEWALK




PLAN




ELEVATION
RAIL EXPANSION JOINT
Typ. for bicycle rail and parapet rail

BICYCLE RAILING
STRUCTURE NUMBER 022-6649

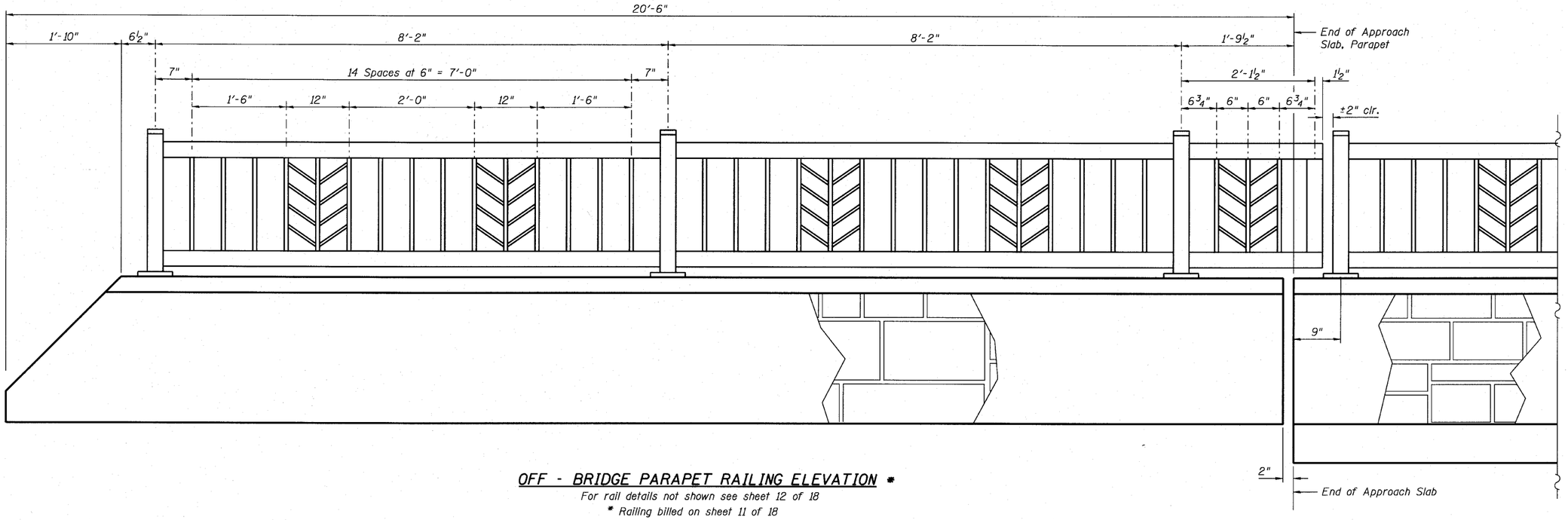
| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

SHEET NO. 12
18 SHEETS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| - | 03-00050-00-BR | DuPAGE | 45 | 33 |
| | | CONTRACT NO. 63468 | | |
| FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

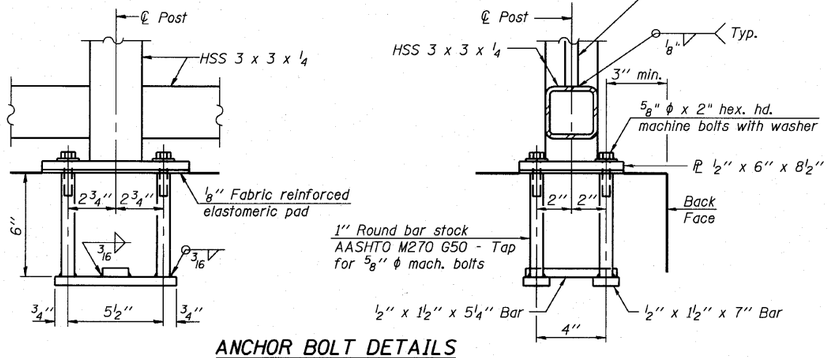
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




## OFF - BRIDGE PARAPET RAILING ELEVATION *

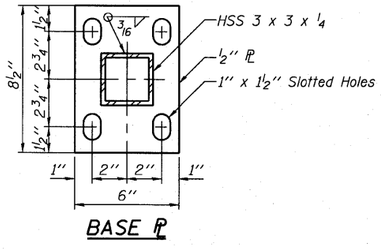
For rail details not shown see sheet 12 of 18

* Railing billed on sheet 11 of 18




## ANCHOR BOLT DETAILS

*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.*




## BASE PL

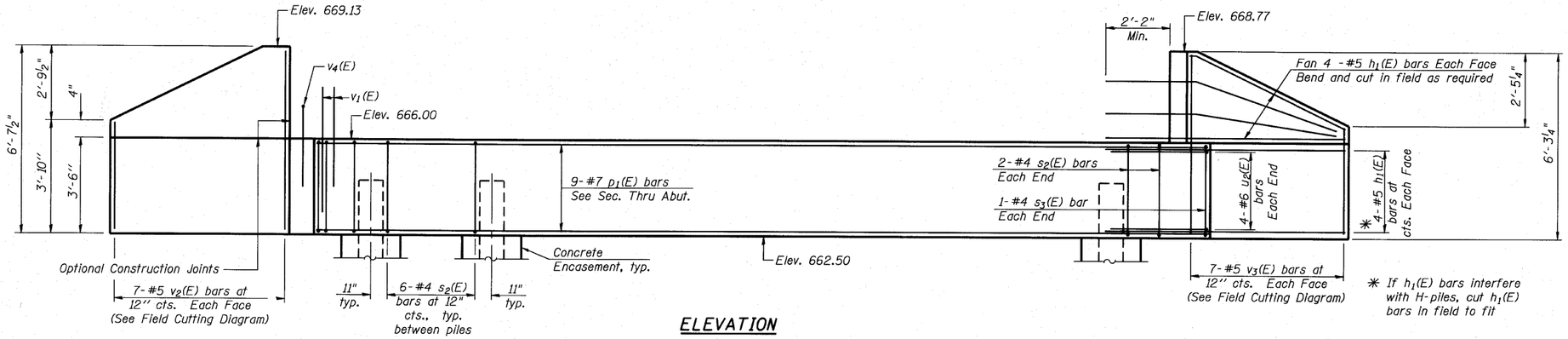
| | | |
|---|---|---|
| DESIGNED | - | JJI |
| CHECKED | - | SRT |
| DRAWN | - | GM |
| CHECKED | - | SRT |

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

RAILING DETAILS
STRUCTURE NUMBER 022-6649

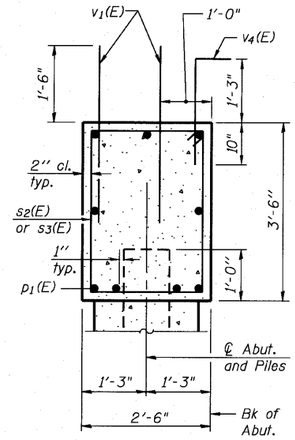
| SHEET NO. 13 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | _ | 03-00050-00-BR | DuPAGE | 45 | 34 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

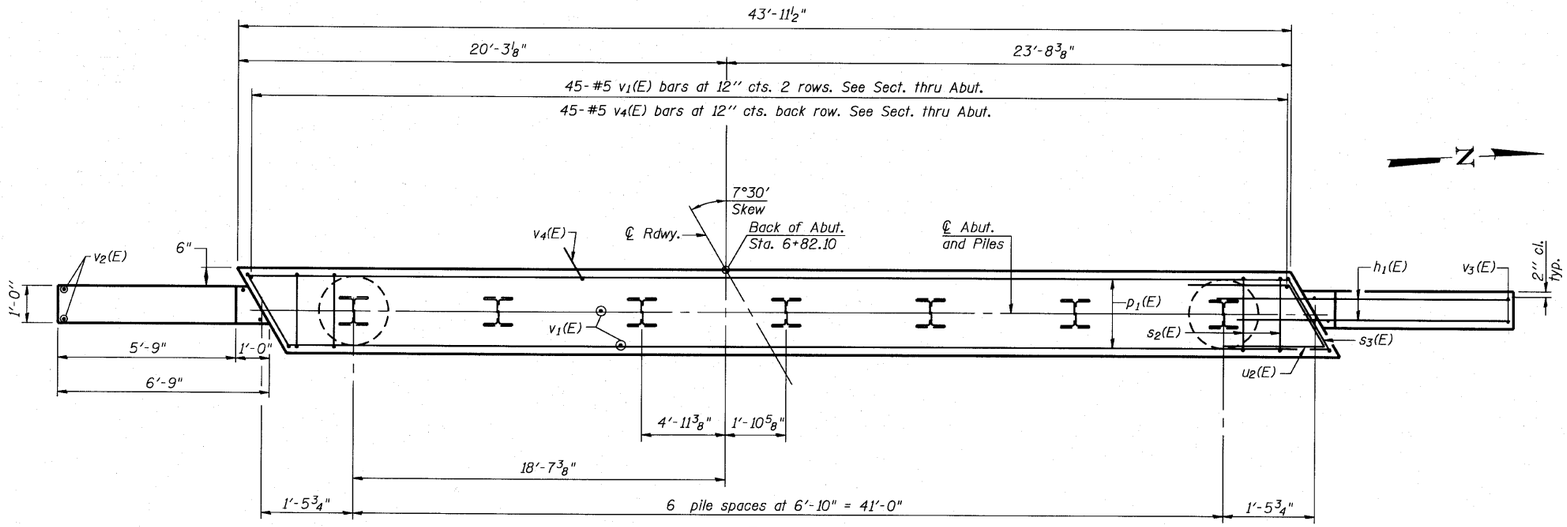



✳ If $h_1$(E) bars interfere with H-piles, cut $h_1$(E) bars in field to fit

## ELEVATION
(Looking West)




## SEC. THRU ABUT.




## PLAN

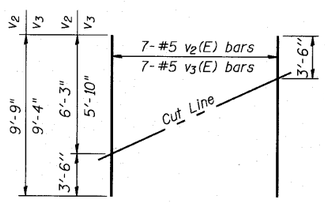
## BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $h_1$(E) | 32 | #5 | 9'-8" | |
| $p_1$(E) | 9 | #7 | 43'-6" | |
| $s_2$(E) | 40 | #4 | 11'-5" | |
| $s_3$(E) | 2 | #4 | 11'-6" | |
| $u_2$(E) | 8 | #6 | 9'-2" | |
| $v_1$(E) | 90 | #5 | 3'-0" | |
| $v_2$(E) | 7 | #5 | 9'-9" | |
| $v_3$(E) | 7 | #5 | 9'-4" | |
| $v_4$(E) | 45 | #5 | 2'-11" | |
| Structure Excavation | | Cu. Yd. | 86 | |
| Concrete Structures | | Cu. Yd. | 16.9 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 2120 | |
| Furnishing Steel Piles, HP 12X53 | | Foot | 228 | |
| Driving Piles | | Foot | 228 | |
| Test Pile Steel HP 12X53 | | Each | 1 | |
| Concrete Encasement | | Cu. Yd. | 2.5 | |
| Pile Shoes | | Each | 7 | |

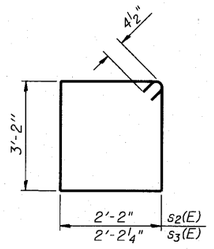
For details of piles and Concrete Encasement, see sheet 17 of 18.

## PILE DATA

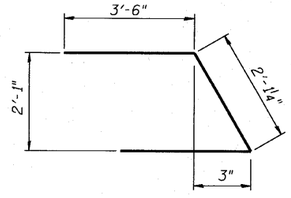
Type: HP 12X53 with pile shoes
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 209.5 Kips
Est. Length: 38'
No. Production Piles: 6
No. Test Piles: 1



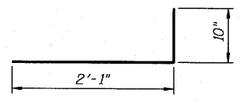

## FIELD CUTTING DIAGRAM
Order $v_2$(E) and $v_3$(E) full length. Cut as shown and use remainder of bars in opposite face.




## BARS $s_2$(E) & $s_3$(E)




## BAR $u_2$(E)




## BAR $v_4$(E)

| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

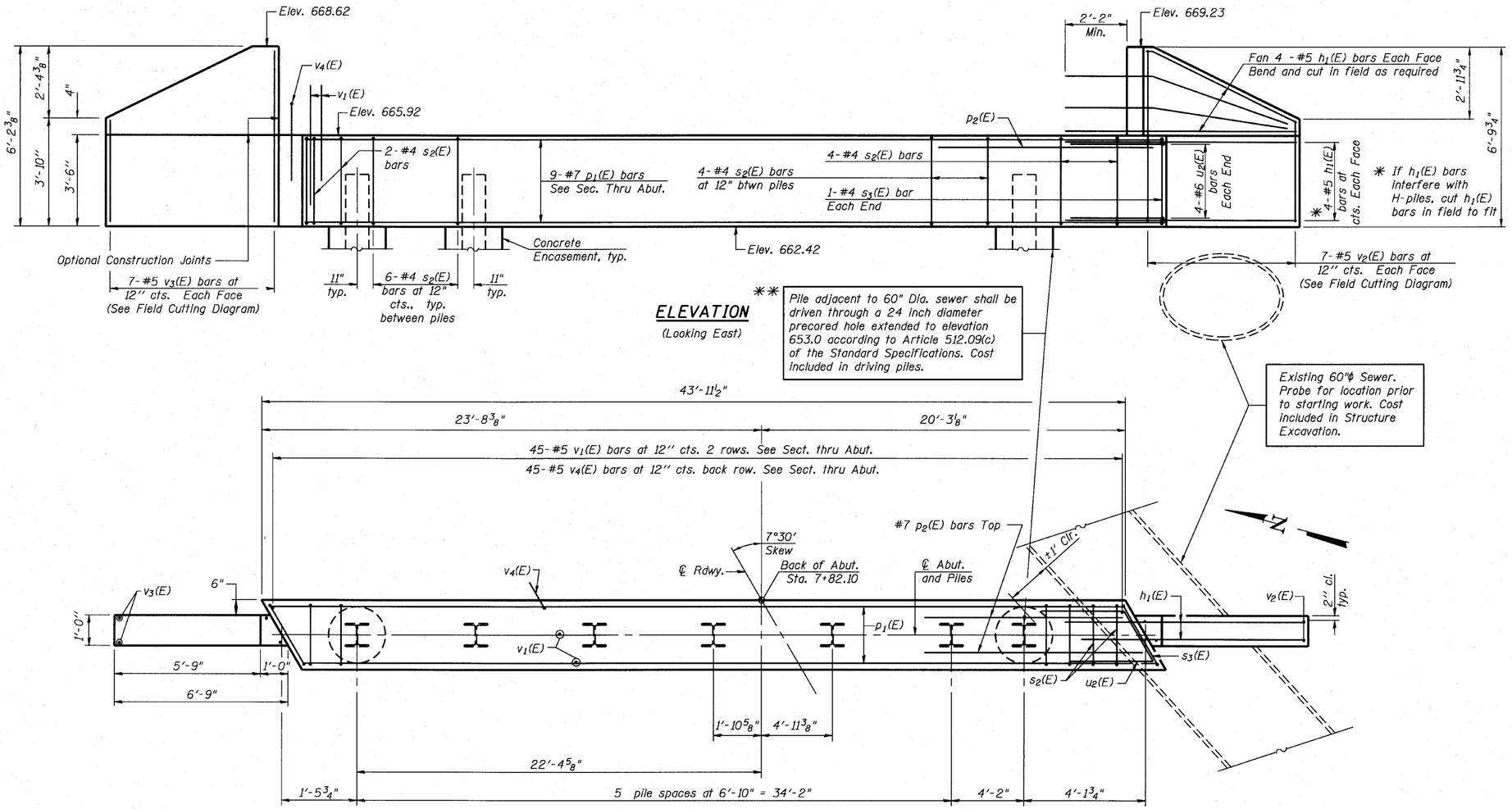
AI-L 11-1-09

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

## WEST ABUTMENT
## STRUCTURE NUMBER 022-6649

| SHEET NO. 14 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 35 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




## ELEVATION

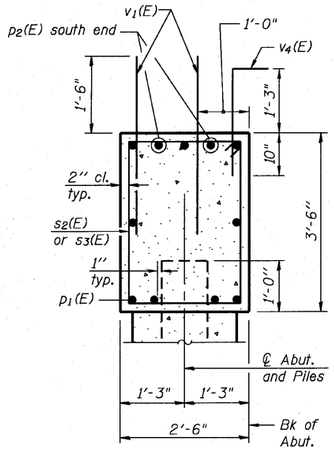
(Looking East)

** Pile adjacent to 60" Dia. sewer shall be driven through a 24 inch diameter precored hole extended to elevation 653.0 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.




## PLAN

Existing 60"ϕ Sewer. Probe for location prior to starting work. Cost included in Structure Excavation.




## SEC. THRU ABUT.

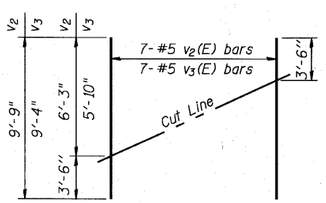
## BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $h_1$(E) | 32 | #5 | 9'-8" | |
| | | | | |
| $p_1$(E) | 9 | #7 | 43'-6" | |
| $p_2$(E) | 2 | #7 | 9'-4" | |
| | | | | |
| $s_2$(E) | 40 | #4 | 11'-5" | |
| $s_3$(E) | 2 | #4 | 11'-6" | |
| | | | | |
| $u_2$(E) | 8 | #6 | 9'-2" | |
| | | | | |
| $v_1$(E) | 90 | #5 | 3'-0" | |
| $v_2$(E) | 7 | #5 | 9'-9" | |
| $v_3$(E) | 7 | #5 | 9'-4" | |
| $v_4$(E) | 45 | #5 | 2'-11" | |
| | | | | |
| Structure Excavation | | | Cu. Yd. | 86 |
| Concrete Structures | | | Cu. Yd. | 16.9 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 2120 |
| Furnishing Steel Piles, HP 12X53 | | | Foot | 270 |
| Driving Piles | | | Foot | 270 |
| Test Pile Steel HP 12X53 | | | Each | 1 |
| Concrete Encasement | | | Cu. Yd. | 2.5 |
| Pile Shoes | | | Each | 7 |

For details of piles and Concrete Encasement, see sheet 17 of 18.

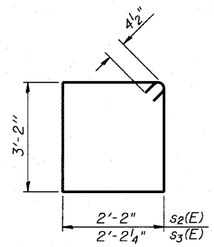
## PILE DATA **

Type: HP 12X53 with pile shoes
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 209.5 Kips
Est. Length: 45'
No. Production Piles: 6
No. Test Piles: 1

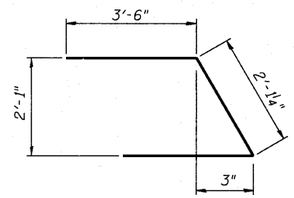



## FIELD CUTTING DIAGRAM

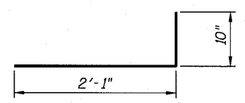
Order $v_2$(E) and $v_3$(E) full length. Cut as shown and use remainder of bars in opposite face.




## BARS $s_2$(E) & $s_3$(E)




## BAR $u_2$(E)




## BAR $v_4$(E)

| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | SRT |

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

## EAST ABUTMENT
## STRUCTURE NUMBER 022-6649

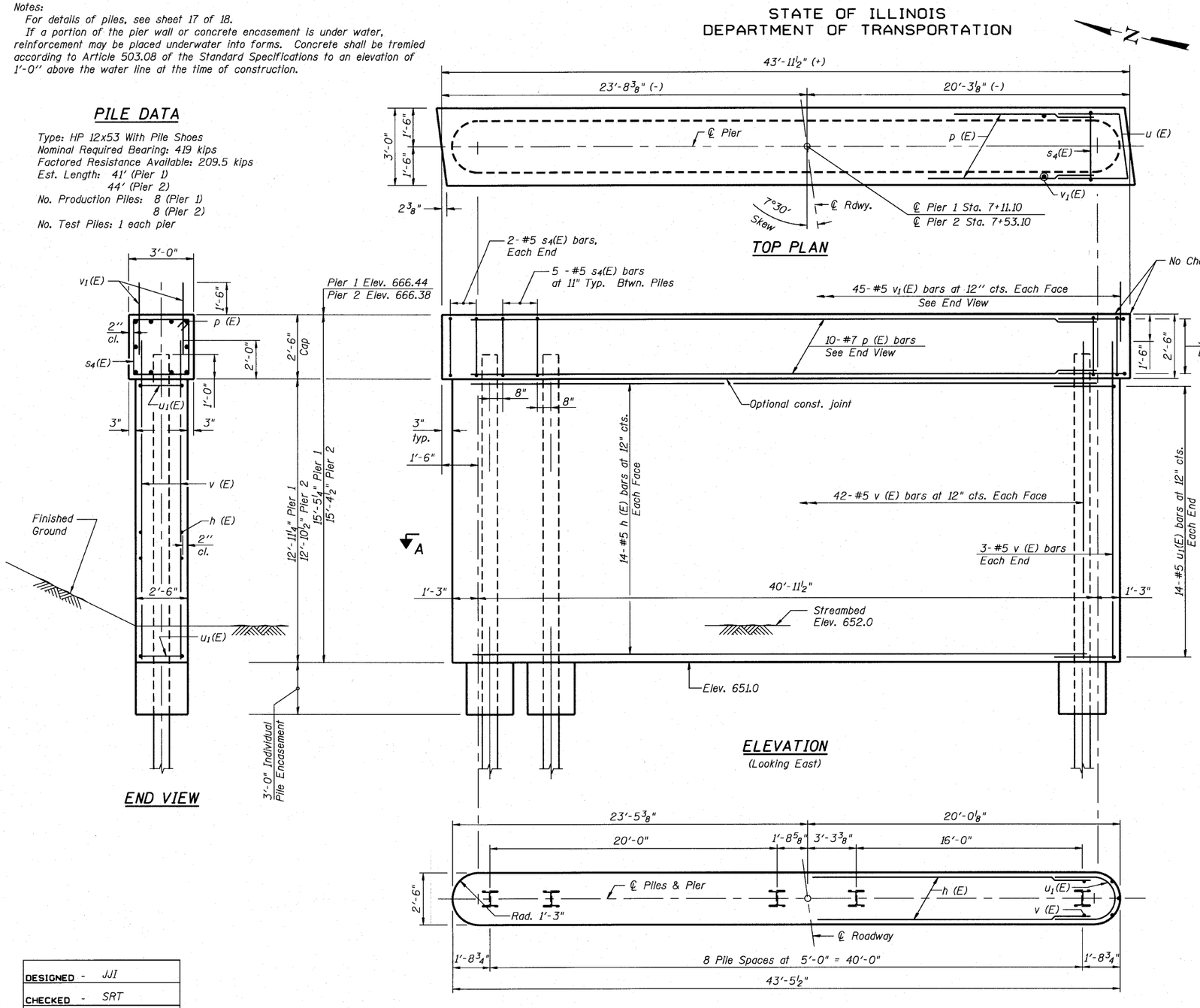
| SHEET NO. 15 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 36 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

Notes:
For details of piles, see sheet 17 of 18.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

## PILE DATA

Type: HP 12x53 With Pile Shoes
Nominal Required Bearing: 419 kips
Factored Resistance Available: 209.5 kips
Est. Length: 41' (Pier 1)
44' (Pier 2)
No. Production Piles: 8 (Pier 1)
8 (Pier 2)
No. Test Piles: 1 each pier

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



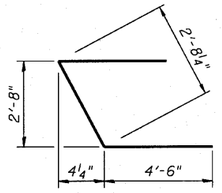

TOP PLAN

ELEVATION
(Looking East)

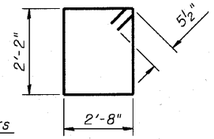
END VIEW



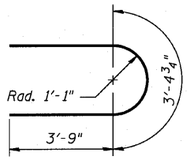

SECTION A-A




BAR u (E)




BAR s (E)




BAR u1(E)

## PIER 1 - BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| h(E) | 28 | #5 | 38'-0" | —— |
| p(E) | 10 | #7 | 40'-0" | —— |
| s4(E) | 44 | #5 | 10'-7" | □ |
| u(E) | 6 | #6 | 11'-9" | ⊏ |
| u1(E) | 28 | #5 | 10'-11" | ⊐ |
| v(E) | 90 | #5 | 15'-0" | —— |
| v1(E) | 90 | #5 | 3'-0" | —— |
| Structure Excavation | | | Cu. Yd. | 17 |
| Concrete Structures | | | Cu. Yd. | 51.4 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 4,530 |
| Furnishing Steel Piles, HP 12X53 | | | Foot | 328 |
| Driving Piles | | | Foot | 328 |
| Test Pile Steel HP 12X53 | | | Each | 1 |
| Pile Shoes | | | Each | 9 |
| Concrete Encasement | | | Cu. Yd. | 3.2 |
| Underwater Structure Excavation Protection - Location 1 | | | Each | 1 |

## PIER 2 - BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| h(E) | 28 | #5 | 38'-0" | —— |
| p(E) | 10 | #7 | 40'-0" | —— |
| s4(E) | 44 | #5 | 10'-7" | □ |
| u(E) | 6 | #6 | 11'-9" | ⊏ |
| u1(E) | 28 | #5 | 10'-11" | ⊐ |
| v(E) | 90 | #5 | 15'-0" | —— |
| v1(E) | 90 | #5 | 3'-0" | —— |
| Structure Excavation | | | Cu. Yd. | 17 |
| Concrete Structures | | | Cu. Yd. | 51.2 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 4,530 |
| Furnishing Steel Piles, HP 12X53 | | | Foot | 352 |
| Driving Piles | | | Foot | 352 |
| Test Pile Steel HP 12X53 | | | Each | 1 |
| Pile Shoes | | | Each | 9 |
| Concrete Encasement | | | Cu. Yd. | 3.2 |
| Underwater Structure Excavation Protection - Location 2 | | | Each | 1 |

| | |
|---|---|
| DESIGNED - | JJI |
| CHECKED - | SRT |
| DRAWN - | GM |
| CHECKED - | JJI |

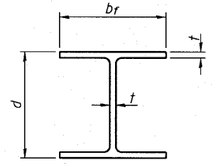
PC-1 11-1-09

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

PIERS 1 AND 2
STRUCTURE NUMBER 022-6649

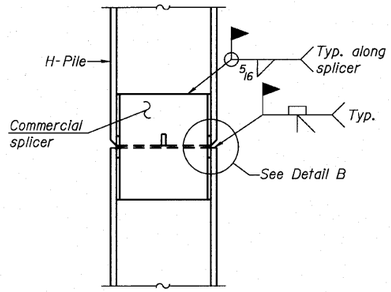
| SHEET NO. 16 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 37 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

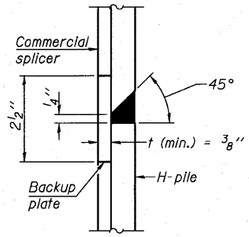



## STEEL PILE TABLE

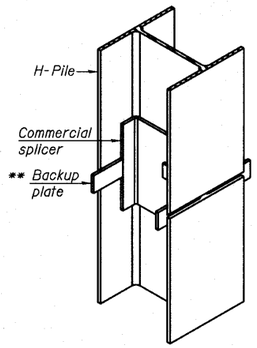
| Designation | Depth d | Flange width $b_f$ | Web and Flange thickness t | Encasement diameter A |
|---|---|---|---|---|
| HP 14x117 | 14 1/4" | 14 7/8" | 13/16" | 30" |
| x102 | 14" | 14 3/4" | 11/16" | 30" |
| x89 | 13 7/8" | 14 3/4" | 5/8" | 30" |
| x73 | 13 5/8" | 14 5/8" | 1/2" | 30" |
| HP 12x84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




ELEVATION

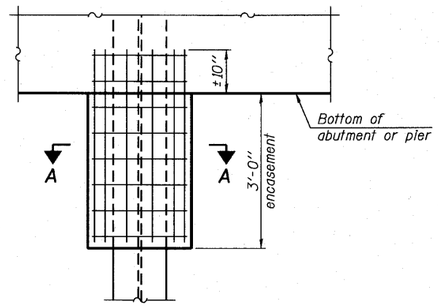



DETAIL "B"

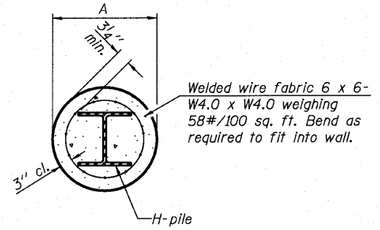



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



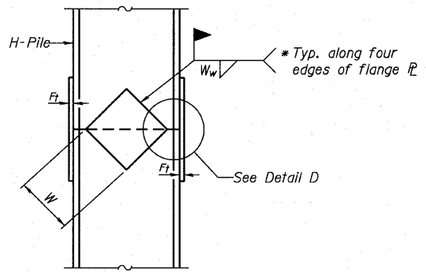

ELEVATION



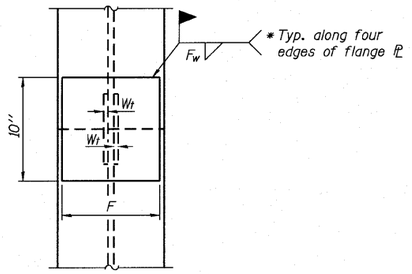

SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

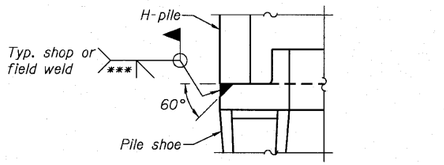
PILE ENCASEMENT




ELEVATION




END VIEW

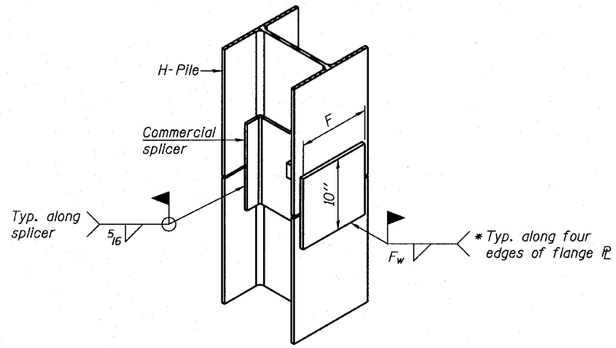



ELEVATION




DETAIL A

H-PILE SHOE ATTACHMENT



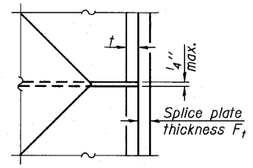

ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).




DETAIL D

| Designation | F | $F_t$ | $F_w$ | W | $W_t$ | $W_w$ |
|---|---|---|---|---|---|---|
| HP 14x117 | 12 1/2" | 1" | 7/8" | 7 3/4" | 5/8" | 1/2" |
| x102 | 12 1/2" | 7/8" | 3/4" | 7 3/4" | 5/8" | 1/2" |
| x89 | 12 1/2" | 3/4" | 11/16" | 7 3/4" | 5/8" | 1/2" |
| x73 | 12 1/2" | 5/8" | 9/16" | 7 3/4" | 5/8" | 1/2" |
| HP 12x84 | 10" | 7/8" | 11/16" | 6 1/2" | 5/8" | 1/2" |
| x74 | 10" | 7/8" | 11/16" | 6 1/2" | 5/8" | 1/2" |
| x63 | 10" | 5/8" | 1/2" | 6 1/2" | 1/2" | 3/8" |
| x53 | 10" | 5/8" | 1/2" | 6 1/2" | 1/2" | 3/8" |
| HP 10x57 | 8" | 3/4" | 9/16" | 5 1/4" | 1/2" | 3/8" |
| x42 | 8" | 5/8" | 9/16" | 5 1/4" | 1/2" | 3/8" |
| HP 8x36 | 7" | 5/8" | 7/16" | 4 1/4" | 1/2" | 3/8" |

WELDED PLATE FIELD SPLICE

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

| | |
|---|---|
| DESIGNED | - |
| CHECKED | - |
| DRAWN | - GM |
| CHECKED | - SRT |

F-HP 11-1-09

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

HP PILE DETAILS
STRUCTURE NUMBER 022-6649

| SHEET NO. 17 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | - | 03-00050-00-BR | DuPAGE | 45 | 38 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

## Testing Service Corporation

STRUCTURE BORING LOG — Page 1 of 1

ROUTE _____ DESCRIPTION Short St. Bridge over E. Br. DuPage River — Date Started 10/14/08 — Date Completed 10/15/08

SECT. _____ STRUCT. NO. _____ DRILLED BY TSC/L-72,343

COUNTY DuPage LOCATION SW Corner of Bridge S. 10 E½ , TWP. 38N , RNG. 10SE

Boring No. SB-1 — Station _____ — Offset _____ ft — Surface Elev. 667.90 ft

Surface Water Elev. _____ — Groundwater Elev.: when drilling 654.9 — at Completion Rotary Wash — after _____ Hrs. _____

| DEPTH | BLOWS | Qu tsf | W % |
|---|---|---|---|
| 667.40 FILL - Black clayey TOPSOIL | | | |
| 666.40 FILL - Brown and gray Sand and Crushed Limestone, moist | 5 5 7 | P 1.5 | 4.5 11.0 |
| 664.90 FILL - Brown CLAY LOAM, little gravel, moist A-6 | 8 10 12 | | 7.3 |
| -5 FILL - Brown and gray Sand and Crushed Limestone, occasional clay pieces, moist | 6 6 9 | | 6.7 |
| 659.90 FILL - Brown and gray CLAY LOAM, trace gravel, trace organic, moist A-6/A-7-6 | 6 7 7 | P 1.5 | 17.5 |
| 657.40 -10 Med. dense brown and gray SAND and GRAVEL, moist to saturated A-1 | 9 10 12 | | |
| | 8 12 10 | | |
| -15 | 4 6 8 | | |
| | 5 10 8 | | |
| -20 | 10 7 6 | | |
| | 5 12 17 | | |
| -25 | | | |

| DEPTH | BLOWS | Qu tsf | W % |
|---|---|---|---|
| 642.40 Very dense brown and gray SAND and GRAVEL, occasional Cobbles and Boulders, saturated A-1 | 13 50/4" | | |
| 639.90 Loose gray SILTY LOAM, little gravel, very moist A-4 | 5 3 2 | | |
| -30 | 2 1 2 | | 14.2 |
| -35 | 2 4 5 | | |
| 632.90 Med. dense gray SAND and GRAVEL, occasional Cobbles and Boulders, saturated A-1 | 8 9 11 | | |
| 630.40 Probable weathered and fractured Dolomite Rock, hard drilling | 20 5/5" | | 16.5 |
| 628.40 Core Run-1: 39.5 to 43.5 ft. Recovery = 94% RQD = 58% | | | |
| -40 Light gray to white Dolomite, thick bedded,m slightly mottled, contains 5-10% small pinpoint vugs, fractured at 41.5' | | | |
| 624.40 Core Run-2: 43.5 to 49.5 ft. Recovery = 100% RQD = 90% | | | |
| -45 Light gray Dolomite, thick bedded, relatively pure, mottled dark gray, contains 10-15% small pinpoint vugs, slight hairline fractured throughout, occasional fossil | | | |
| 618.40 End of Boring at 49.5' | | | |
| -50 | | | |

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILDOT_BORING 72431DOT.GPJ IDOT.GDT 10/30/08

## Testing Service Corporation

STRUCTURE BORING LOG — Page 1 of 1

ROUTE _____ DESCRIPTION Short St. Bridge over E. Br. DuPage River — Date Started 10/9/08 — Date Completed 10/9/08

SECT. _____ STRUCT. NO. _____ DRILLED BY TSC/L-72,343

COUNTY DuPage LOCATION NE Corner of Bridge S. 10 E½ , TWP. 38N , RNG. 10SE

Boring No. SB-2 — Station _____ — Offset _____ ft — Surface Elev. 668.00 ft

Surface Water Elev. _____ — Groundwater Elev.: when drilling 652.5 — at Completion Rotary Wash — after _____ Hrs. _____

| DEPTH | BLOWS | Qu tsf | W % |
|---|---|---|---|
| FILL - Dark brown CLAY LOAM, trace gravel, trace organic, moist A-6/A-7-6 | 3 5 5 | P 1.0 | 17.4 |
| 665.00 FILL - Brown SAND and GRAVEL, moist A-1 | 5 10 7 | | 5.0 |
| 662.50 -5 FILL - Brown clayey SAND and GRAVEL, moist A-1-a | 3 4 6 | | 13.1 |
| 660.00 FILL - Dark brown CLAY LOAM, trace gravel, trace organic, moist A-7-6 | 3 4 4 | P 1.0 | 21.6 |
| 657.50 -10 FILL - Black and gray CLAY, trace gravel, moist A-7-6 | 2 2 4 | P 0.5 | 32.2 |
| 655.00 Med. dense brown and gray SAND, little gravel, moist to very moist A-1-b | 8 10 14 | | 11.4 |
| 652.50 -15 | 9 11 17 | | |
| Med. dense to dense brown and gray SAND and GRAVEL, saturated A-1 | 9 15 16 | | |
| 647.50 -20 Very stiff gray CLAY, trace gravel, moist A-6 | 9 9 8 | B 1.815% | 12.3 |
| 645.00 Dense to very dense gray SAND and GRAVEL, occasional Cobbles and Boulders A-1 | 5 17 22 | | |
| -25 | | | |

| DEPTH | BLOWS | Qu tsf | W % |
|---|---|---|---|
| Dense to very dense gray SAND and GRAVEL, occasional Cobbles and Boulders A-1 | 11 15 16 | | |
| -30 | 25 50/5" | | |
| 636.00 Med. dense gray SANDY LOAM, little gravel, very moist A-2-4 | | | |
| 631.00 -35 | 7 8 12 | | 12.4 |
| -40 Dense to very dense gray SAND and GRAVEL, occasional Cobbles and Boulders, saturated A-1 | 27 22 25 | | |
| 624.00 | 75/5" | | |
| -45 Probable weathered and fractured Dolomite Rock, hard Drilling | 75/1½ | | |
| 621.90 Auger Refusal at 46.1' | | | |
| -50 | | | |

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILDOT_BORING 72431DOT.GPJ IDOT.GDT 10/30/08

PROJECT Bridge Replacement, Short Street Bridge over E. Br. DuPage River, Lisle, IL
CLIENT Bollinger, Lach & Associates, Inc., Itasca, Illinois
BORING HA-1 DATE STARTED 10-16-08 DATE COMPLETED 10-16-08 JOB L-72,343
ELEVATIONS — GROUND SURFACE 656.7 — END OF BORING 646.7
WATER LEVEL OBSERVATIONS — ▼ WHILE DRILLING 3.5' — ▽ AT END OF BORING 3.5' — ▼ 24 HOURS

| SAMPLE NO. | TYPE | LENGTH RECOVERY | N | WC | Qu | γDRY | DEPTH | ELEV. | SOIL DESCRIPTIONS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SS | | | 18.6 | 1.0* | 112 | | | FILL - Black and brown CLAY, trace organic, moist A-6/A-7-6 |
| | | | | | | | 3.0 | 653.7 | ▼ |
| 2 | SS | | | 7.5 | | | | | FILL - Gray GRAVEL, some sand, saturated A-1-a |
| 3 | SS | | | 8.4 | | | | | |
| A 4B | SS | | | 8.1 14.4 | 2.5* | | 9.0 | 647.7 | Very stiff gray CLAY, trace gravel, moist A-6 |

0 5 10 15 IN FEET

End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

PROJECT Bridge Replacement, Short Street Bridge over E. Br. DuPage River, Lisle, IL
CLIENT Bollinger, Lach & Associates, Inc., Itasca, Illinois
BORING HA-2 DATE STARTED 10-16-08 DATE COMPLETED 10-16-08 JOB L-72,343
ELEVATIONS — GROUND SURFACE 657.4 — END OF BORING 647.4
WATER LEVEL OBSERVATIONS — ▼ WHILE DRILLING 3.0' — ▽ AT END OF BORING 3.0' — ▼ 24 HOURS

| SAMPLE NO. | TYPE | LENGTH RECOVERY | N | WC | Qu | γDRY | DEPTH | ELEV. | SOIL DESCRIPTIONS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SS | | | 20.3 | 1.0* | 99 | | | FILL - Black and brown CLAY, trace organic, moist A-6/A-7-6 |
| | | | | | | | 3.0 | 654.4 | ▼ |
| 2 | SS | | | 7.4 | | | | | FILL - Gray SAND and GRAVEL, trace silt and clay, saturated A-1 |
| 3 | SS | | | 11.1 | | | | | |
| A 4B | SS | | | 8.9 15.6 | 1.5* | | 9.0 | 648.4 | Stiff gray CLAY, trace gravel, moist A-6 |

0 5 10 15 IN FEET

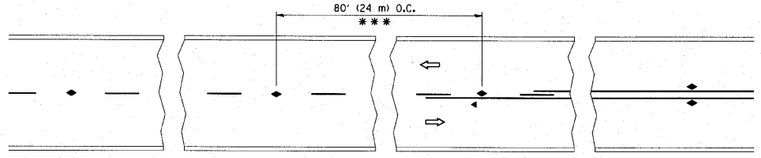
End of Boring at 10.0'

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

| | |
|---|---|
| DESIGNED | - |
| CHECKED | - |
| DRAWN | - GM |
| CHECKED | - SRT |

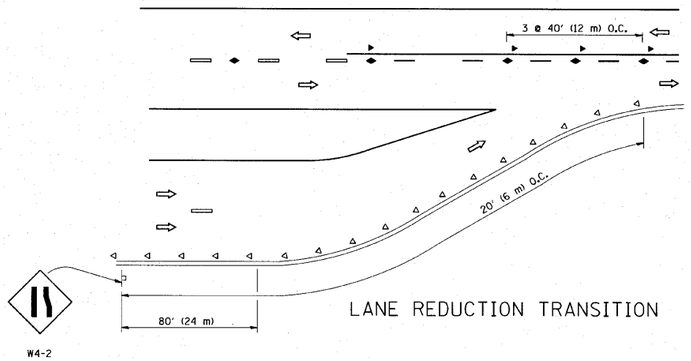
Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

| SHEET NO. 18 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|---|
| 18 SHEETS | _ | 03-00050-00-BR | DuPAGE | 45 | 39 |
| | | | CONTRACT NO. 63468 | | |
| | FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

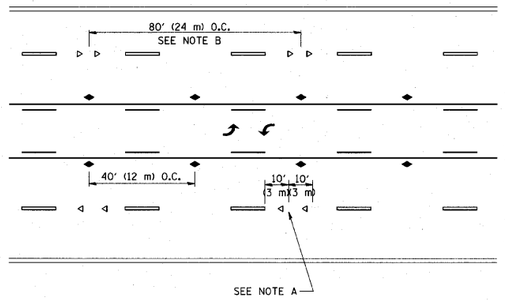



* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

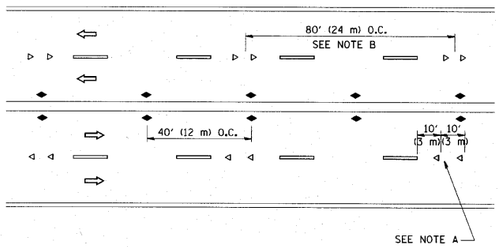
TWO-LANE/TWO-WAY



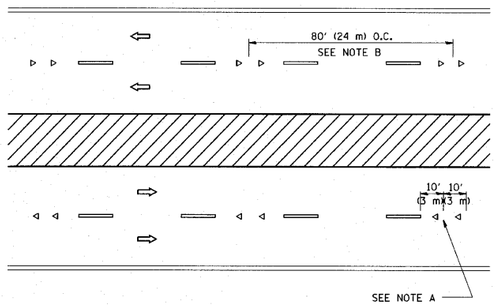

LANE REDUCTION TRANSITION




TWO-WAY LEFT TURN




MULTI-LANE/UNDIVIDED




MULTI-LANE/DIVIDED

## GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

## SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

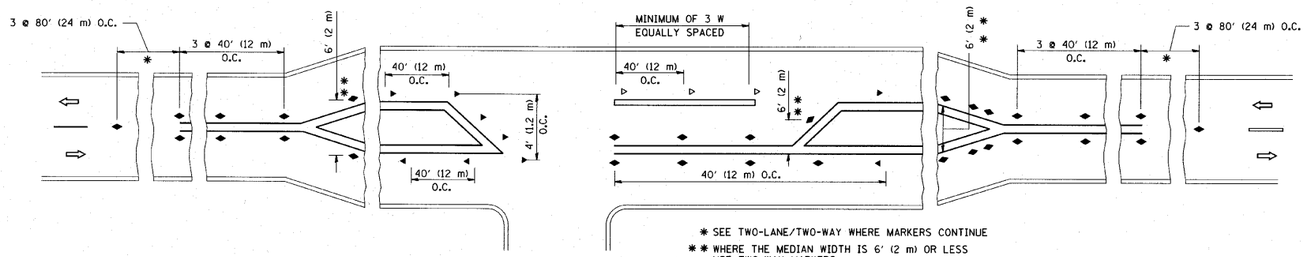
## LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

## DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



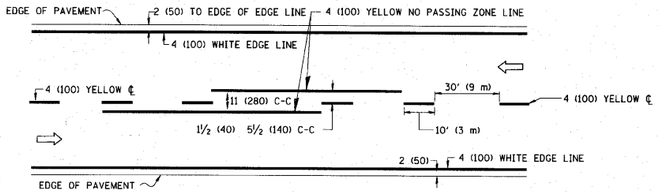

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

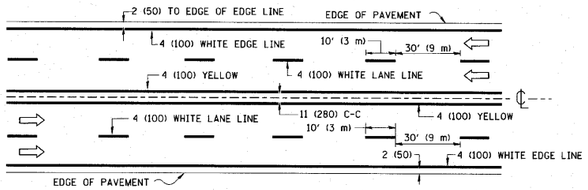
LEFT TURN

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

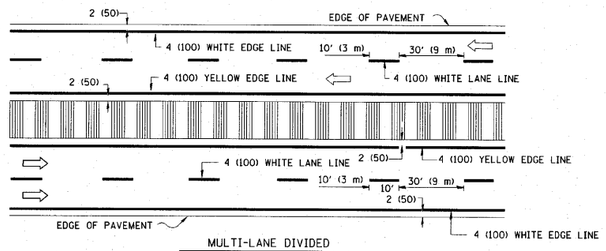
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc11.dgn | USER NAME = drivakosgn | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | **STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** | **TYPICAL APPLICATIONS** | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 50.002 ' / IN. | DRAWN - | REVISED - T. RAMMACHER 03-12-99 | | **RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)** | | 03-00050-00-BR | DUPAGE | 45 | 40 |
| | PLOT DATE = 9/9/2009 | CHECKED - | REVISED - T. RAMMACHER 01-06-00 | | | | TC-11 | CONTRACT NO. 63468 | | |
| | | DATE - | REVISED - C. JUCIUS 09-09-09 | | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |




2-LANE ROADWAY



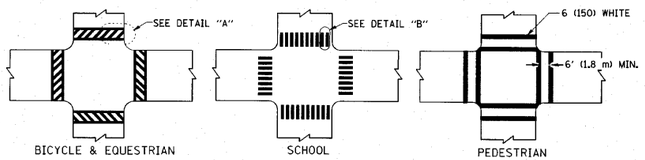

MULTI-LANE UNDIVIDED

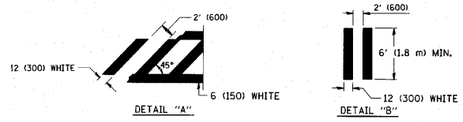



MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

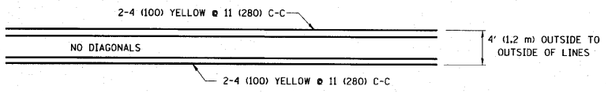
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

## TYPICAL LANE AND EDGE LINE MARKING

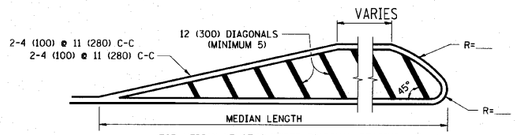



## TYPICAL CROSSWALK MARKING



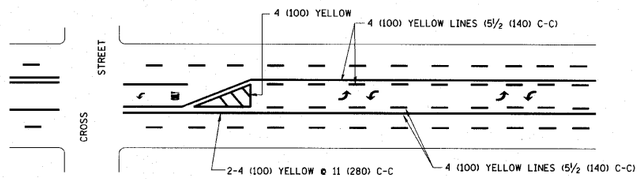

4' (1.2 m) WIDE MEDIANS ONLY



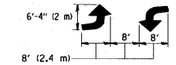

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

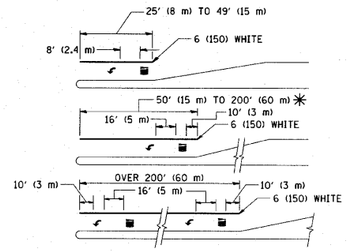



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.




MEDIAN WITH TWO-WAY LEFT TURN LANE

## TYPICAL PAINTED MEDIAN MARKING

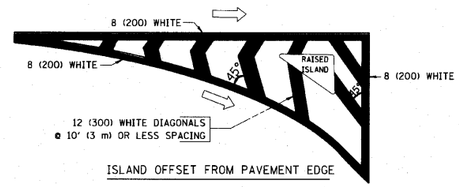



FULL SIZE LETTERS 8' (2,4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

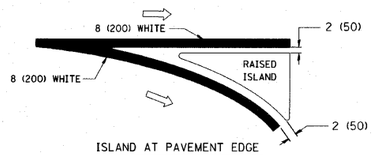
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

## TYPICAL TURN LANE MARKING




ISLAND OFFSET FROM PAVEMENT EDGE




ISLAND AT PAVEMENT EDGE

## TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|---|---|---|---|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 ℄ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES:<br>FOR ONE DIRECTION<br>FOR BOTH DIRECTIONS | 4 (100)<br>2 ℄ 4 (100) | SOLID<br>SOLID | YELLOW<br>YELLOW | 5½ (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100)<br>5 (125) ON FREEWAYS | SKIP-DASH<br>SKIP-DASH | WHITE<br>WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES<br>(EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT<br>WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 ℄ 4 (100) EACH DIRECTION<br><br>8' (2,4m) LEFT ARROW | SKIP-DASH AND SOLID<br><br>IN PAIRS | YELLOW<br><br>WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE<br><br>SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 ℄ 6 (150)<br>12 (300) ℄ 45°<br>12 (300) ℄ 90° | SOLID<br>SOLID<br>SOLID | WHITE<br>WHITE<br>WHITE | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>2' (600) APART<br>SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 ℄ 4 (100) WITH 12 (300) DIAGONALS ℄ 45°<br><br>NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW:<br>TWO WAY TRAFFIC<br><br>WHITE:<br>ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br><br>SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS ℄ 45° | SOLID | WHITE | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))<br>30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001<br>AREA OF:<br>"R"=3.6 SQ. FT. (0.33 m²) EACH<br>"X"=54.0 SQ. FT. (5.0 m²) |
| SHOULDER DIAGONALS | 12 (300) ℄ 45° | SOLID | WHITE - RIGHT<br><br>YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>150' (45 m) C-C (OVER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

| | | | |
|---|---|---|---|
| FILE NAME = c:\pw_work\pwidot\d-ivakosgn\d0108315\tc3.dgn | USER NAME = d-ivakosgn | DESIGNED - EVERS | REVISED -T. RAMMACHER 10-27-94 |
| | | DRAWN - | REVISED -C. JUCIUS 09-09-09 |
| | PLOT SCALE = 50.000 ' / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 9/9/2009 | DATE - 03-19-90 | REVISED - |

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

**DISTRICT ONE**
**TYPICAL PAVEMENT MARKINGS**

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 41 |
| | TC-13 | CONTRACT NO. 63468 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

## ROUTE MARKERS

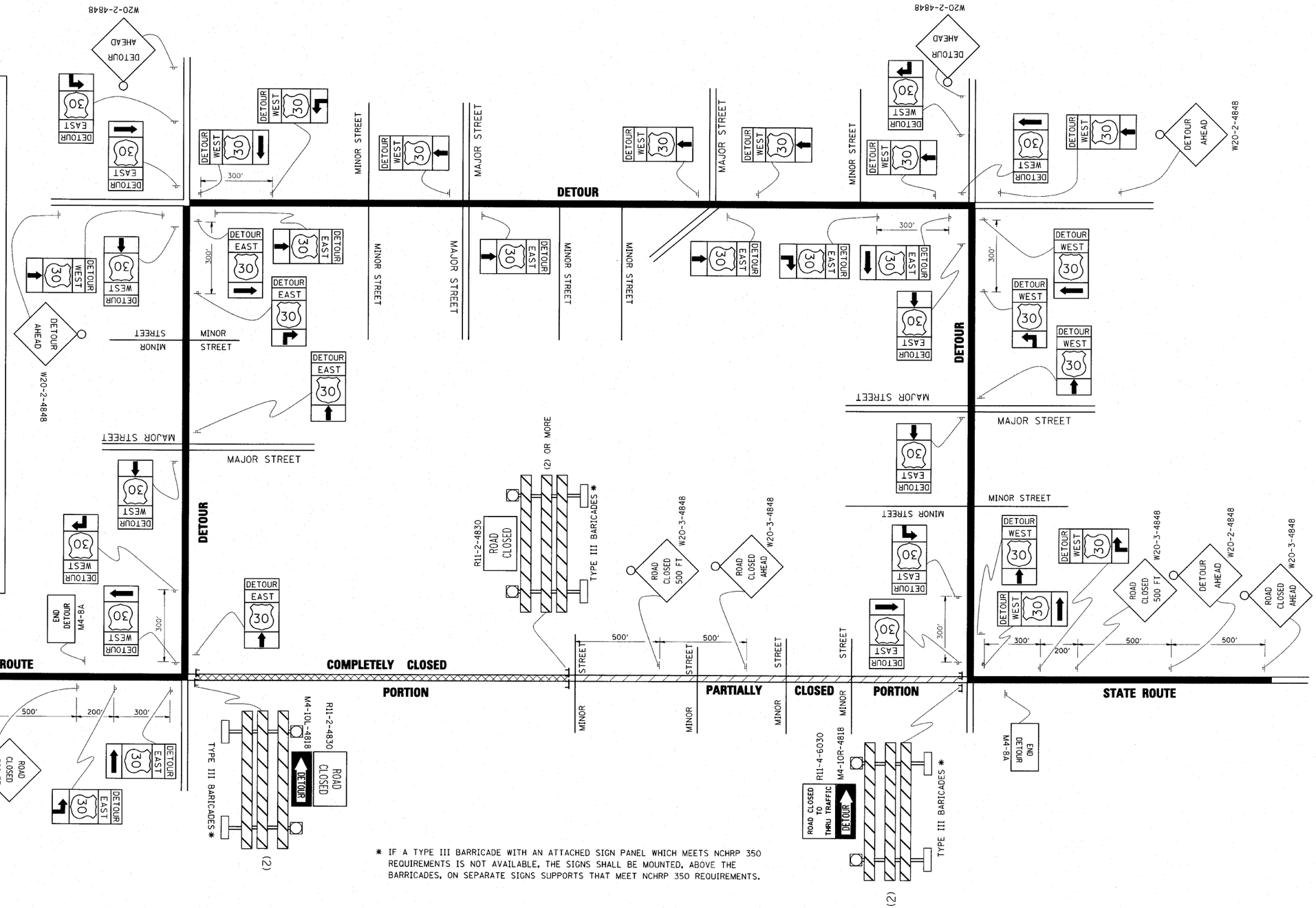
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

## ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

## CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412




* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

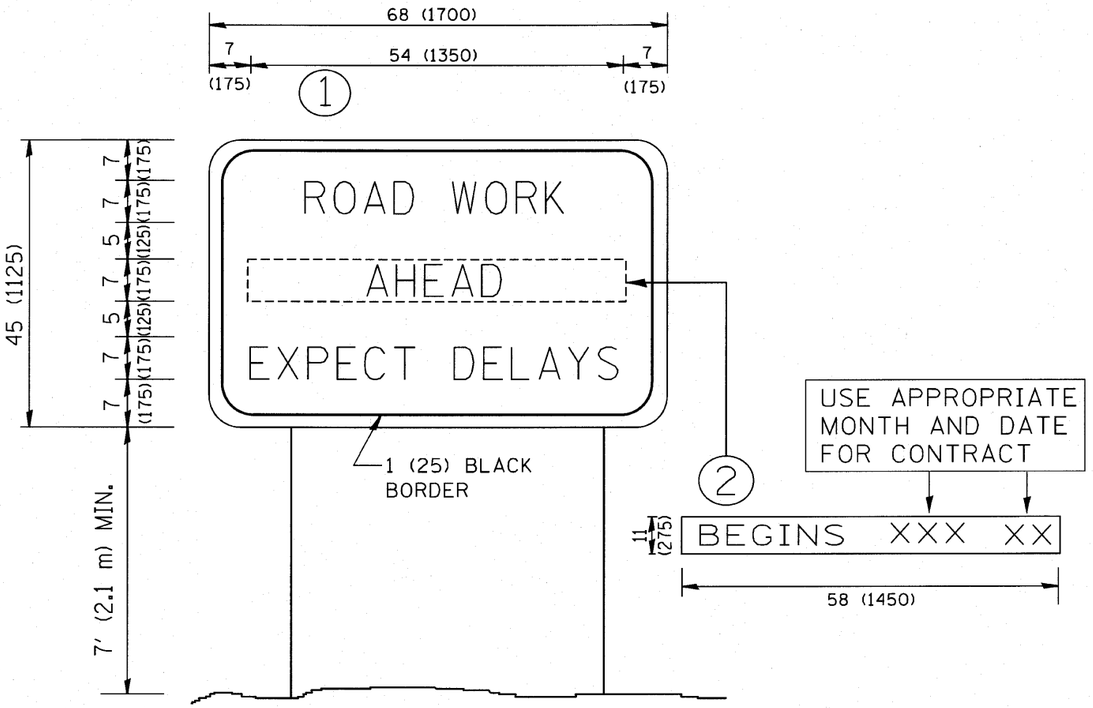
| | | | |
|---|---|---|---|
| FILE NAME = c:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\tc21.dgn | USER NAME = drivakosgn | DESIGNED - | REVISED - 10-18-02 |
| | | DRAWN - | REVISED - R. BORO 09-14-09 |
| | PLOT SCALE = 49.9999 ' / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 9/14/2009 | DATE - | REVISED - |

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

**DETOUR SIGNING FOR CLOSING STATE HIGHWAYS**

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 42 |
| | TC-21 | CONTRACT NO. 63468 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |



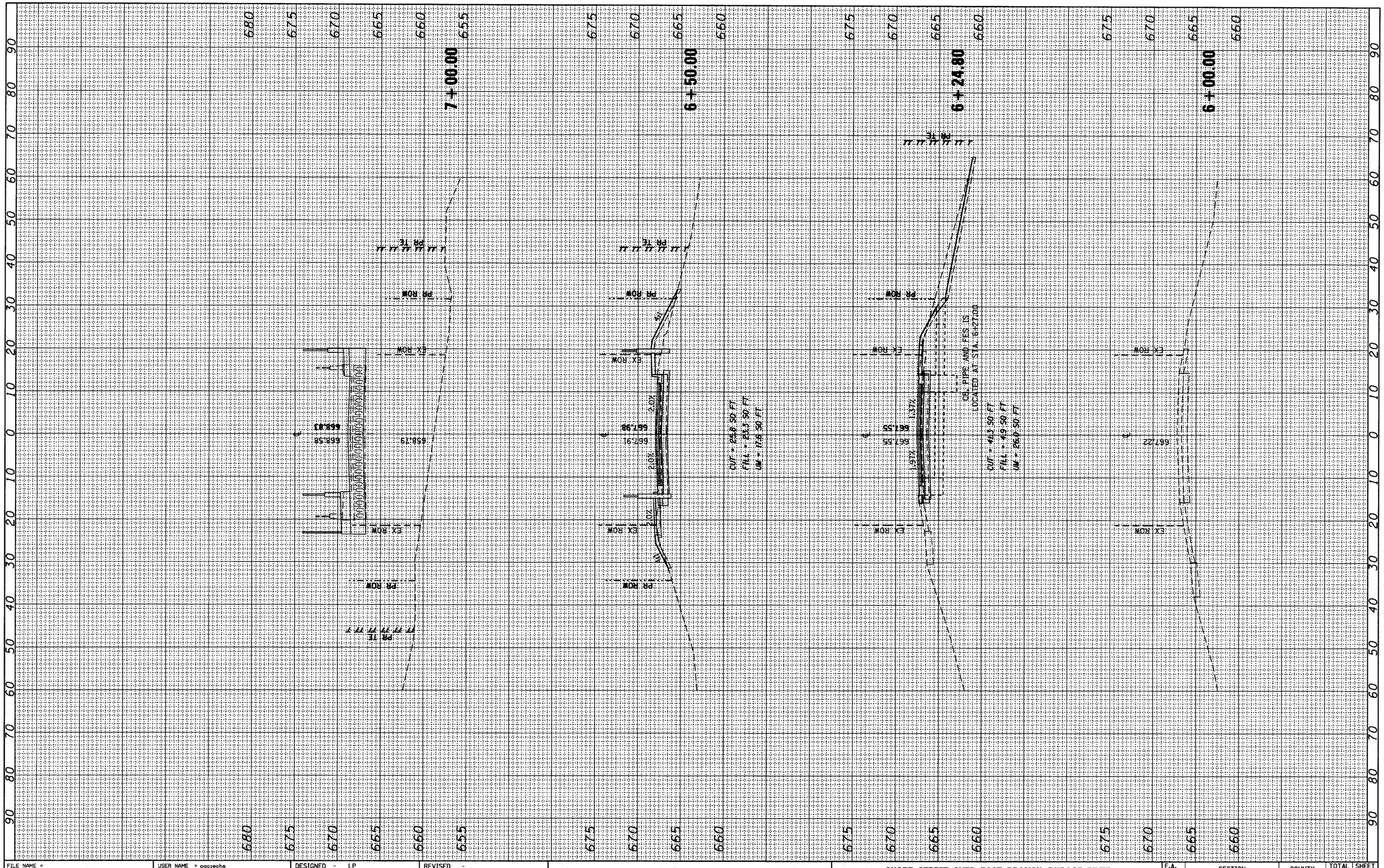

## NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FILE NAME = W:\diststd\22x34\tc22.dgn | USER NAME = gaglianobt | DESIGNED - | REVISED - R. MIRS 09-15-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD INFORMATION SIGN | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - R. MIRS 12-11-97 | | | | | | | 03-00050-00-BR | DUPAGE | 45 | 43 |
| | PLOT SCALE = 50.000 '/ IN. | CHECKED - | REVISED -T. RAMMACHER 02-02-99 | | | | | | | TC-22 | CONTRACT NO. 63468 | | |
| | PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | BRM-8003 (676) | |

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | AREAS | | |
| | TEMPLATE | | |
| NO. | AREAS CHECKED | | |




| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | AREAS | | |
| | TEMPLATE | | |
| NO. | AREAS CHECKED | | |

| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-ent-xsec.dgn | USER NAME = pociecha | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 10.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

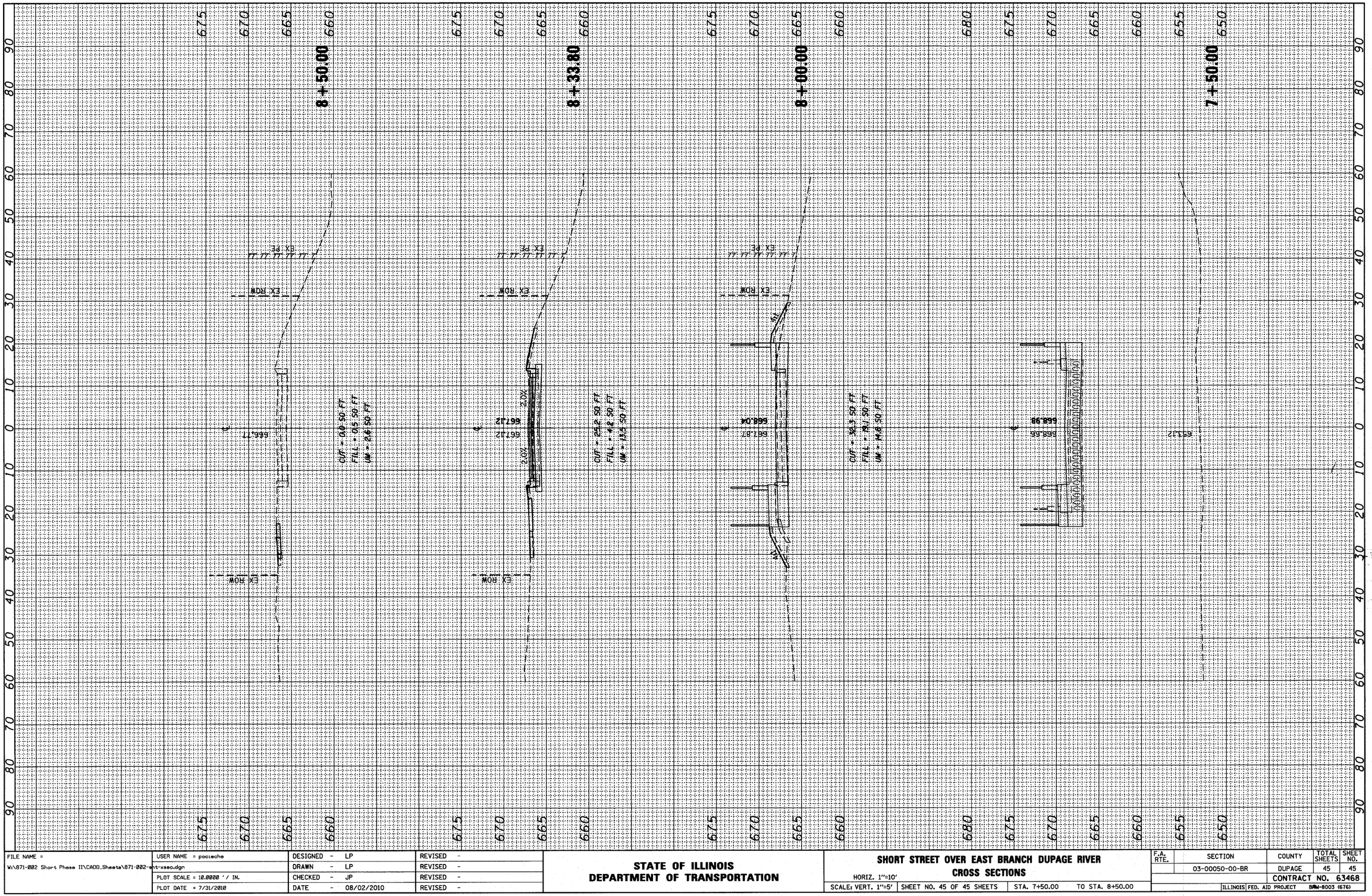
**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**CROSS SECTIONS**

HORIZ. 1"=10'
SCALE: VERT. 1"=5' | SHEET NO. 44 OF 45 SHEETS | STA. 6+00.00 | TO STA. 7+00.00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 44 |
| | | CONTRACT NO. 63468 | | |
| | | ILLINOIS FED. AID PROJECT | BRM-8003 (676) | |

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | MARK-RITE | | |
| | AREAS | | |
| NO. | AREAS CHECKED | | |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | MARK-RITE | | |
| | AREAS | | |
| NO. | AREAS CHECKED | | |




| | | | |
|---|---|---|---|
| FILE NAME = W:\871-002 Short Phase II\CADD_Sheets\871-002-mtt-xsec.dgn | USER NAME = pcoleche | DESIGNED - LP | REVISED - |
| | | DRAWN - LP | REVISED - |
| | PLOT SCALE = 10.0000 ' / IN. | CHECKED - JP | REVISED - |
| | PLOT DATE = 7/31/2010 | DATE - 08/02/2010 | REVISED - |

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

**SHORT STREET OVER EAST BRANCH DUPAGE RIVER**
**CROSS SECTIONS**

HORIZ. 1"=10'
SCALE: VERT. 1"=5' | SHEET NO. 45 OF 45 SHEETS | STA. 7+50.00 | TO STA. 8+50.00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| | 03-00050-00-BR | DUPAGE | 45 | 45 |
| | | CONTRACT NO. 63468 | | |
| | ILLINOIS FED. AID PROJECT BRM-8003 (676) | | | |