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11-05-2021 LETTING ITEM 075

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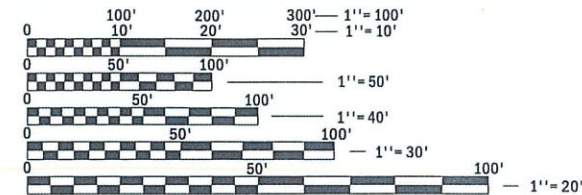
STANDARDS

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SEE SHEET 2 FOR A LIST OF UTILITIES.

ATTENTION CONTRACTORS

THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF MATERIALS AND PHYSICAL RESEARCH, "PROJECT PROCEDURES GUIDE" IS APPLICABLE TO THIS PROJECTS



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. NO. X2401083
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER - MICHAEL C. WAGNER, P.E.
PROJECT MANAGER - MICHAEL R. LESLIE, P.E., S.E.
CONTRACT NO. 87742



Know what's below. Call before you dig.

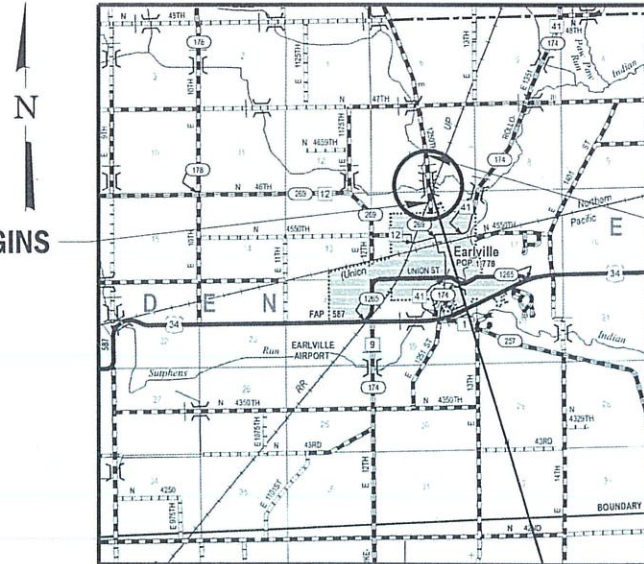
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLAN FOR PROPOSED FEDERAL AID PROJECT SURFACE TRANSPORTATION RURAL - BRIDGE (FY-22)

T.R. 222 (E. 1250TH ROAD)
SECTION 18-09808-00-BR
OVER INDIAN CREEK
PROJECT BDJ6(082)
STRUCTURE REPLACEMENT
LASALLE COUNTY
C-93-008-21

RANGE 2 EAST OF 3RD P.M.
RANGE 3 EAST OF 3RD P.M.



CONSTRUCTION BEGINS STATION 16+85

CONSTRUCTION ENDS STATION 23+70

EXISTING STRUCTURE: S.N. 050-3451

TWO SPAN (31'-6 3/4", 31'-6 3/4") PRECAST PRESTRESSED CONCRETE DECK BEAMS ON CONCRETE PILE CAPS. W/ CREOSOTED TIMBER PILES, CLOSED TIMBER ABUTMENTS AND PILE BENT PIERS. @ 45° LT. AHEAD SKEW. EXISTING STRUCTURE IS TO BE REMOVED AND REPLACED. NO SALVAGE.

PROPOSED STRUCTURE: S.N. 050-3625

THREE SPAN (26'-0"; 59'-0"; 26'-0") PRECAST PRESTRESSED CONCRETE DECK BEAMS ON SPILL THROUGH CONCRETE ABUTMENTS AT STA 20+00. 45° LT. AHEAD SKEW.



GROSS LENGTH = 685 FT. = 0.130 MILE
NET LENGTH = 685 FT. = 0.130 MILE



DATE: 9-2-2021
EXPIRES 11/30/21

FUNCTIONAL CLASSIFICATION
LOCAL (RURAL)
DESIGN SPEED 30 MPH
2020 ADT - 276
3R GUIDELINES

Table with columns: T.R., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 222, 18-09808-00-BR, LASALLE, 31, 1. Contract No. 87742.

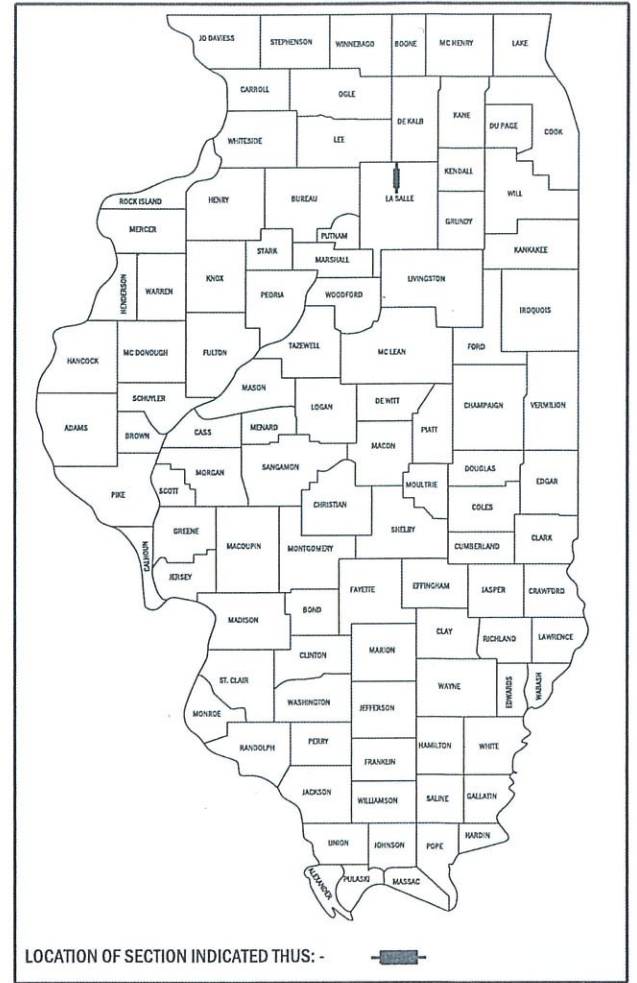


Table with approval signatures and dates for the Lasalle County Highway Department. Includes signatures for District 3 and Region 2 Engineers.



WILLETT HOFMANN & ASSOCIATES INC.

ENGINEERING ARCHITECTURE LAND SURVEYING

809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

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GENERAL NOTES

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.

NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION AND APPROVED BY THE ENGINEER.

ALL UTILITY POLES, GAS PIPES, ETC. IN THE WAY OF THE IMPROVEMENTS SHALL BE MOVED BY THE UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOT BE INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

THE LOCATION OF EXISTING FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN IN THE PLANS ARE NOT TO BE TAKEN AS EXACT. EXACT LOCATION OF ALL FIELD TILES AND UTILITIES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

CITY OF EARLVILLE
 ATTN: ROGER TORMAN
 PH: 815-246-9588

MEDIACOM
 ATTN: CHRIS MINARD
 PH: 815-597-5103
 EM: CMINARD@MEDIACOMCC.COM

FRONTIER COMMUNICATIONS
 ATTN: KALIN HINSHAW
 PH: 815-895-1515
 EM: KALIN.HINSHAW@FTR.COM

NICOR GAS
 ATTN: CHIP PARROTT
 PH: 630-388-3319
 EM: GASMAPS@ALGERESCOURES.COM

A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS, AND RIGHT OF WAY PINS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKERS, SECTION OR SUBSECTION MONUMENTS, UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

WHERE THE PLANS CALL FOR EXISTING PAVEMENT TO BE SAW CUT AND REMOVED, THE EXISTING SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING AND PAVEMENT REMOVAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER EACH FOR REMOVAL OF EXISTING STRUCTURES.

REMOVAL OF STUMPS, PIPE CULVERTS, BRUSH AND TREES LESS THAN 6 INCH IN DIAMETER SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION (SPECIAL).

TREES GREATER THAN 6 INCH IN DIAMETER WITHIN THE LIMITS OF CONSTRUCTION, AND DETERMINED TO PREVENT GRADING AND SHAPING OF DITCHES, SHALL BE REMOVED AND PAID FOR AS TREE REMOVAL (6 TO 15 UNITS DIAMETER). SPECIAL CARE SHALL BE TAKEN TO ONLY REMOVE TREES NECESSARY TO CONSTRUCTION PROCEDURES, CONTRACTOR SHALL COORDINATE ALL TREE REMOVAL WITH THE ENGINEER PRIOR TO THE REMOVAL.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE 0010

| CODE NO. | ITEM | UNIT | QUANTITY |
|------------|--|-------|----------|
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 108 |
| 20300100 | CHANNEL EXCAVATION | CU YD | 737 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 2,233 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 49 |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 40 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 1,104 |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 2 |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 959 |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 74 |
| 50300225 | CONCRETE STRUCTURES | CU YD | 160.7 |
| 50300280 | CONCRETE ENCASEMENT | CU YD | 8.4 |
| 50400305 | PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) | SQ FT | 1,568 |
| 50400405 | PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH) | SQ FT | 1,540 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 12,820 |
| △ 50901050 | STEEL RAILING, TYPE SM | FOOT | 224 |
| 51201400 | FURNISHING STEEL PILES HP 10X42 | FOOT | 505 |
| 51201600 | FURNISHING STEEL PILES HP 12X53 | FOOT | 520 |
| 51202305 | DRIVING PILES | FOOT | 1,025 |
| 51203400 | TEST STEEL PILE HP 10X42 | EACH | 2 |
| 51203600 | TEST STEEL PILE HP 12X53 | EACH | 2 |
| 51204650 | PILE SHOES | EACH | 24 |
| 51500100 | NAME PLATES | EACH | 1 |
| 542D5473 | PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18" | FOOT | 40 |
| * 58600101 | GRANULAR BACKFILL FOR STRUCTURES | CU YD | 108 |
| 59100100 | GEOCOMPOSITE WALL DRAIN | SQ YD | 23 |
| △ 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 125 |
| △ 63100075 | TRAFFIC BARRIER TERMINAL, TYPE 5A | EACH | 4 |
| △ 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 195 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| △ 72501000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 4 |
| △ 78200005 | GUARDRAIL REFLECTORS, TYPE A | EACH | 8 |
| * X2020410 | EARTH EXCAVATION (SPECIAL) | CU YD | 238 |
| * X2501020 | SEEDING, CLASS 2A (SPECIAL) | ACRE | 0.49 |
| * X2810210 | STONE RIPRAP, CLASS A5 (SPECIAL) | TON | 641 |
| * X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 |
| * Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 |
| * Z0046304 | PIPE UNDERDRAINS FOR STRUCTURES 4" | FOOT | 186 |

* INDICATES A SPECIAL PROVISION

△ SPECIALTY ITEMS

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
| | | | |
| | | | |
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| | |
|--------------|--|
| DESIGNED GBB | LASALLE COUNTY T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK STATION 20+00 |
| DRAWN BAW | |
| REVIEWED GFS | |
| APPROVED MRI | |

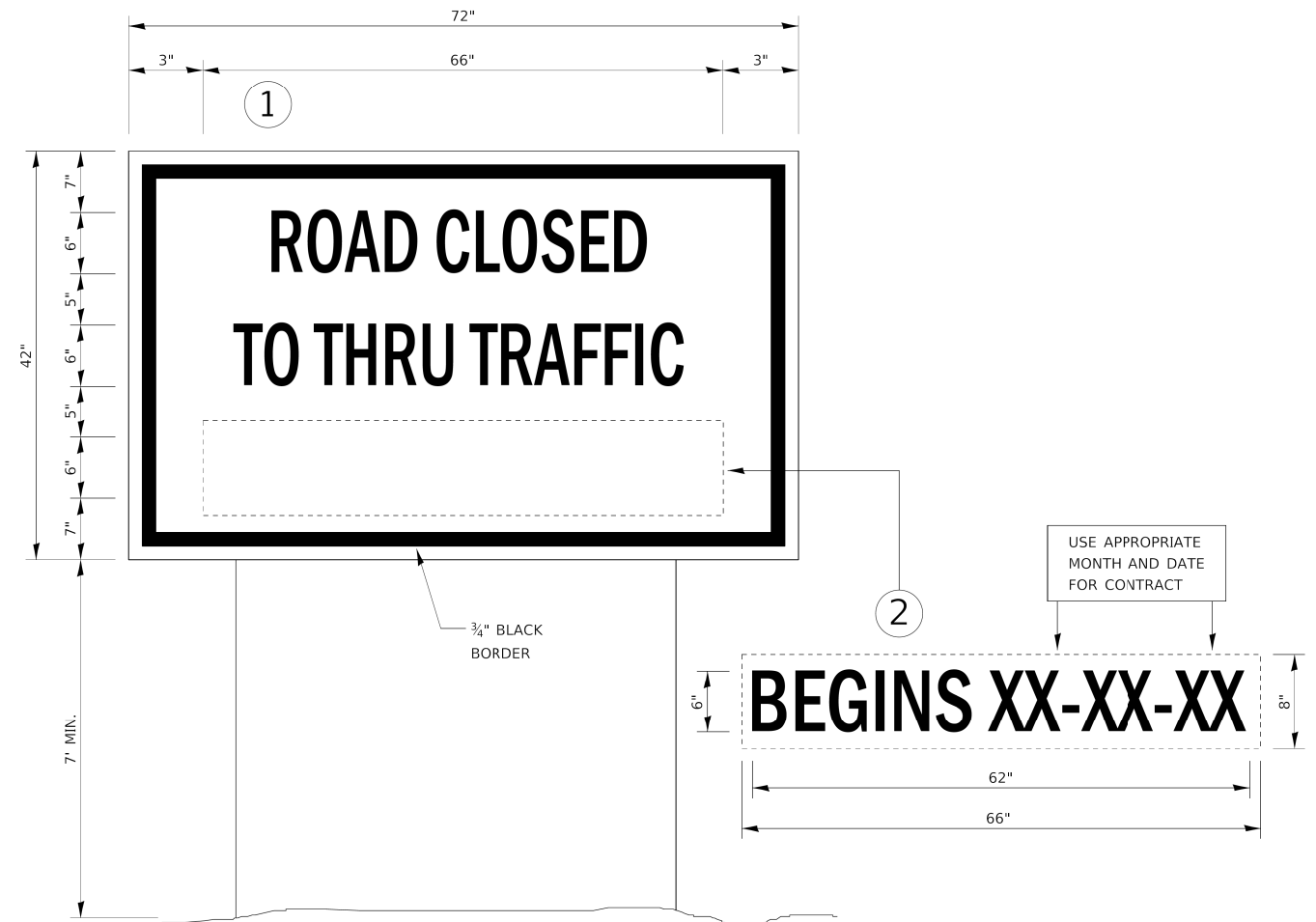
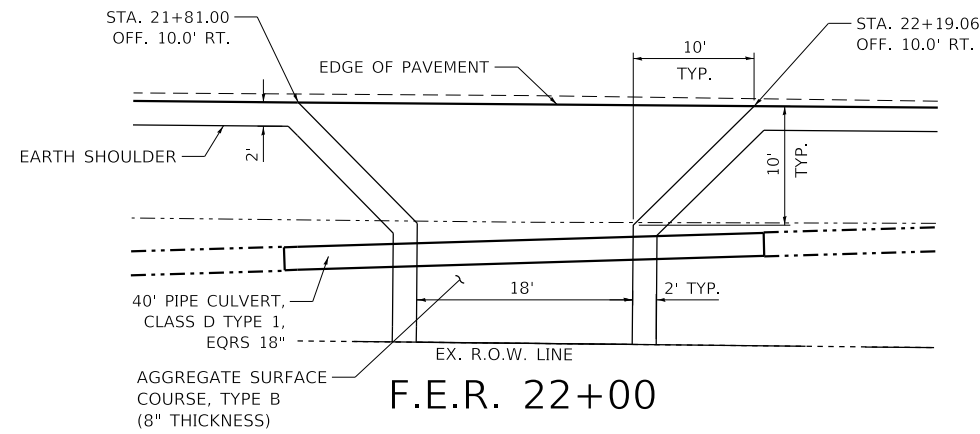
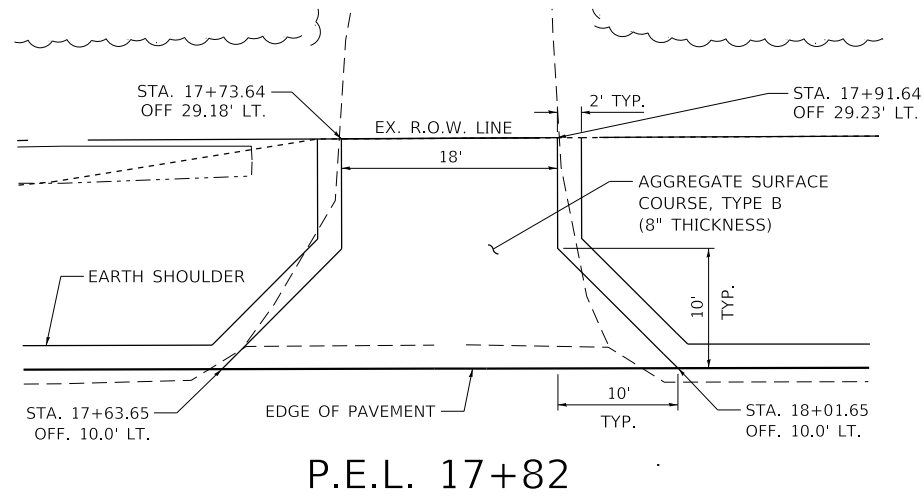


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 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3581 DESIGN FIRM #184-00918

| | |
|--|--|
| GENERAL NOTES, SUMMARY OF QUANTITIES STRUCTURE NO. 050-3625 | |
| SHEET NO. 1 OF 1 SHEETS | |

| | | | | |
|---------------------------|----------------|---------|---------------------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 2 |
| WHA* 1392D19 | | | CONTRACT NO. 87742 | |
| ILLINOIS FED. AID PROJECT | | | | |

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TEMPORARY INFORMATION SIGNING

NOTES:

- 1) USE 6" BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
- 2) ERECT SIGNS AT LOCATIONS ADVANCE OF THE PROJECT, AS DIRECTED BY THE ENGINEER AND THE SPECIAL PROVISION FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"
- 3) ERECT SIGNS A MINIMUM OF TWO WEEKS (14 DAYS) IN ADVANCE OF THE START OF THE ROAD CLOSURE.
- 4) SEE SPECIAL PROVISION "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" FOR ADDITIONAL INFORMATION.
- 5) REMOVE SIGN PANEL #2 ON THAT DATE. SIGN PANEL #1 SHALL REMAIN UNLESS DIRECTED BY THE ENGINEER.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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| DESIGNED | CBG |
| DRAWN | BAW |
| REVIEWED | GFS |
| APPROVED | MRL |

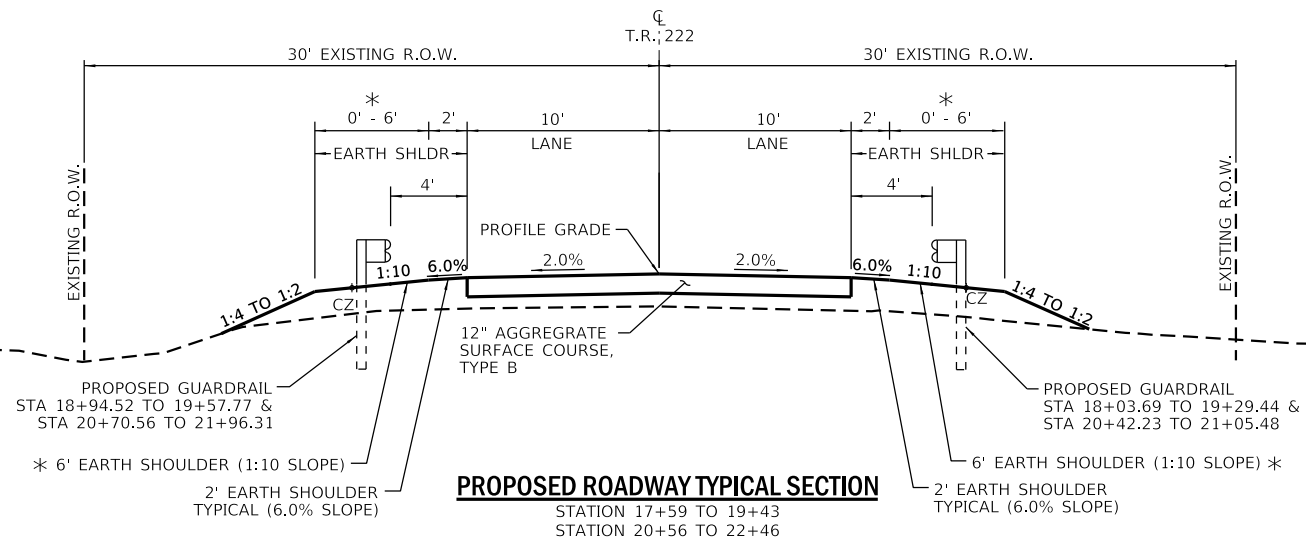
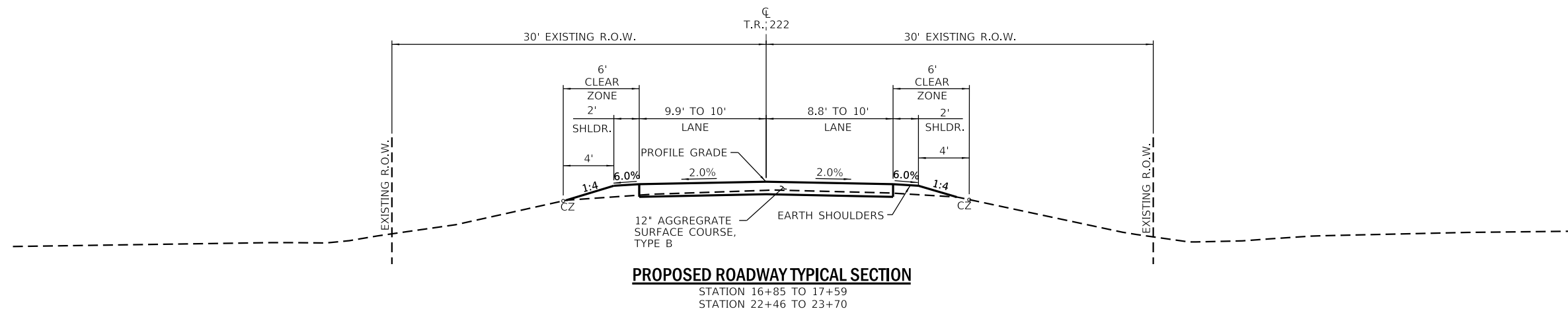
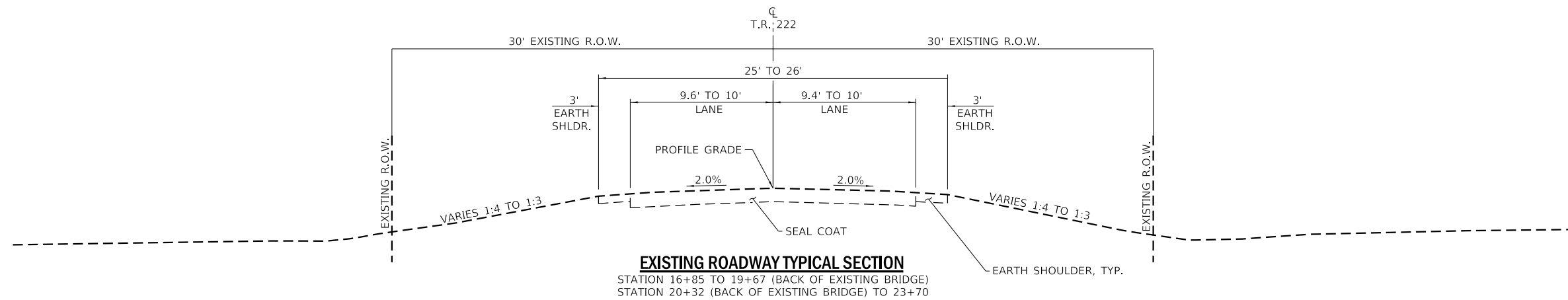
LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



WILLET HOFMANN & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

DRIVEWAY DETAILS & GENERAL DETAILS
STRUCTURE NO. 050-3625
SHEET NO. 1 OF 1 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 3 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



* SHOULDER WIDENING FOR GUARDRAIL (LEFT SIDE)
 LT TAPER FROM EDGE OF TYPICAL SHOULDER TO 6FT WIDTH
 STA: 18+46 to 18+83
 STA: 22+09 to 22+46
 FULL 6FT SHOULDER WIDTH
 STA: 18+83 to 19+61
 STA: 20+75 to 22+09

* SHOULDER WIDENING FOR GUARDRAIL (RIGHT SIDE)
 RT TAPER FROM EDGE OF TYPICAL SHOULDER TO 6FT WIDTH
 STA: 17+59 to 17+94
 STA: 21+16 to 21+50
 FULL 6FT SHOULDER WIDTH
 STA: 17+94 to 19+25
 STA: 20+38 to 21+16

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
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|----------|-----|
| DESIGNED | GBG |
| DRAWN | BAW |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



TYPICAL SECTIONS
SHEET NO. 1 OF 1 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 4 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

EARTH WORK TABLE

| T.R. 222 (E. 1250TH RD.) EARTHWORK TOTALS | | | | | | | | |
|---|------------------|---|----------------------|---|--------------------|---|------------------------------|---|
| LOCATION | EARTH EXCAVATION | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE & WASTE 25% | STRUCTURE EXCAVATION | STRUCTURE EXCAVATION ADJUSTED FOR SHRINKAGE & WASTE 50% | CHANNEL EXCAVATION | CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE & WASTE 75% | EMBANKMENT REQUIRED FILL (-) | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) |
| | CU YD | CU YD | CU YD | CU YD | CU YD | CU YD | CU YD | CU YD |
| TOTAL | 238 | 179 | 74 | 37 | 737 | 185 | - 301 | 100 |

SCHEDULE OF QUANTITIES

| TREE REMOVAL (6 TO 15 UNITS DIAMETER) | | | |
|---------------------------------------|------|-------------------------|--|
| STATION | UNIT | REMARKS | |
| T.R. 222 | | | |
| RT STA 17+90 | 28 | 3 TREES (10", 10", 8") | |
| RT STA 17+95 | 8 | STUMP | |
| RT STA 18+98 | 32 | 3 STUMPS (12", 12", 8") | |
| RT STA 19+30 | 16 | 2 STUMPS (8", 8") | |
| RT STA 20+50 | 24 | STUMP | |
| PROJECT TOTAL | 108 | | |
| 20100110 | | | |

| EROSION CONTROL BLANKET | | |
|-------------------------|-------|---------|
| STATION | SQ YD | REMARKS |
| T.R. 222 | | |
| LT STA 16+85 - 17+74 | 137 | |
| LT STA 17+92 - 19+62 | 345 | |
| LT STA 20+67 - 24+00 | 663 | |
| RT STA 16+85 - 19+34 | 460 | |
| RT STA 20+39 - 21+91 | 308 | |
| RT STA 22+09 - 23+80 | 320 | |
| PROJECT TOTAL | 2,233 | |
| 25100630 | | |

| TEMPORARY EROSION CONTROL SEEDING | | |
|-----------------------------------|-------|----------------|
| STATION | POUND | REMARKS |
| T.R. 222 | | |
| ENTIRE PROJECT | 49 | 100 LBS / ACRE |
| PROJECT TOTAL | 49 | |
| 28000250 | | |

| TEMPORARY DITCH CHECKS | | |
|------------------------|------|---------|
| STATION | FOOT | REMARKS |
| T.R. 222 | | |
| LT STA 19+46 | 10 | |
| LT STA 20+84 | 10 | |
| RT STA 19+16 | 10 | |
| RT STA 20+69 | 10 | |
| PROJECT TOTAL | 40 | |
| 28000305 | | |

SCHEDULE OF QUANTITIES

| PERIMETER EROSION BARRIER | | |
|---------------------------|-------|---------|
| STATION | FOOT | REMARKS |
| T.R. 222 | | |
| LT STA 16+85 - 17+73 | 88 | |
| LT STA 17+92 - 19+48 | 156 | |
| LT STA 20+82 - 24+00 | 318 | |
| RT STA 16+85 - 19+18 | 233 | |
| RT STA 20+52 - 21+90 | 138 | |
| RT STA 22+09 - 23+80 | 171 | |
| PROJECT TOTAL | 1,104 | |
| 28000400 | | |

| INLET AND PIPE PROTECTION | | |
|---------------------------|------|---------------------------|
| STATION | EACH | REMARKS |
| T.R. 222 | | |
| RT STA 22+20 | 1 | PROPOSED CULVERT EQRS 18" |
| LT STA 18+60 | 1 | EXISTIN CULVERT 30" |
| PROJECT TOTAL | 2 | |
| 28000500 | | |

| AGGREGATE SURFACE COURSE, TYPE B | | |
|----------------------------------|-----|--------------------|
| STATION | TON | REMARKS |
| T.R. 222 | | |
| STA 16+85 - 19+53 | 410 | ROADWAY BASE - 12" |
| PEL STA 17+53 - 18+12 | 24 | ENTRANCE - 8" |
| STA 20+47 - 23+70 | 500 | ROADWAY BASE - 12" |
| FER STA 21+73 - 22+26 | 25 | ENTRANCE - 8" |
| | | 2.05 TON / CU YD |
| PROJECT TOTAL | 959 | |
| 40200800 | | |

| PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18" | | |
|--|------|---------|
| STATION | FOOT | REMARKS |
| T.R. 222 | | |
| RT STA 21+80 - 22+20 | 40 | |
| PROJECT TOTAL | 40 | |
| 542D5473 | | |

| STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | | |
|--|------|---------|
| STATION | FOOT | REMARKS |
| T.R. 222 | | |
| RT STA 18+53.69 - 19+16.19 | 62.5 | |
| LT STA 20+83.81 - 21+46.31 | 62.5 | |
| PROJECT TOTAL | 125 | |
| 63000001 | | |

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| REVISION | DATE | BY | REMARKS |
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| DESIGNED | GBG |
| DRAWN | BAW |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



SCHEDULE OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 5 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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SCHEDULE OF QUANTITIES

| TRAFFIC BARRIER TERMINAL, TYPE 5A | | |
|-----------------------------------|----------|---------|
| STATION | EACH | REMARKS |
| T.R. 222 | | |
| RT STA 19+16.19 - 19+29.44 | 1 | |
| LT STA 19+44.52 - 19+57.77 | 1 | |
| RT STA 20+42.23 - 20+55.48 | 1 | |
| LT STA 20+70.56 - 20+83.81 | 1 | |
| PROJECT TOTAL | 4 | |
| 63100075 | | |

| TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | | |
|--|----------|---------|
| STATION | EACH | REMARKS |
| T.R. 222 | | |
| RT STA 18+03.69 - 18+53.69 | 1 | |
| LT STA 18+94.52 - 19+44.52 | 1 | |
| RT STA 20+55.48 - 21+05.48 | 1 | |
| LT STA 21+46.31 - 21+96.31 | 1 | |
| PROJECT TOTAL | 4 | |
| 63100167 | | |

| GUARDRAIL REMOVAL | | |
|----------------------|------------|---------|
| STATION | FOOT | REMARKS |
| T.R. 222 | | |
| RT STA 19+01 - 19+53 | 52 | |
| RT STA 20+19 - 20+71 | 52 | |
| LT STA 19+43 - 19+82 | 39 | |
| LT STA 20+49 - 21+01 | 52 | |
| PROJECT TOTAL | 195 | |
| 63200310 | | |

| TERMINAL MARKER - DIRECT APPLIED | | |
|----------------------------------|----------|---------|
| STATION | EACH | REMARKS |
| T.R. 222 | | |
| RT STA 18+03.69 | 1 | |
| LT STA 18+94.52 | 1 | |
| RT STA 21+05.48 | 1 | |
| LT STA 21+96.31 | 1 | |
| PROJECT TOTAL | 4 | |
| 72501000 | | |

SCHEDULE OF QUANTITIES

| GUARDRAIL REFLECTORS, TYPE A | | |
|------------------------------|----------|-----------------------------------|
| STATION | EACH | REMARKS |
| T.R. 222 | | |
| RT STA 18+03.69 - 21+05.48 | 4 | E. GUARDRAIL & RAILINGS OF BRIDGE |
| LT STA 18+94.52 - 21+96.31 | 4 | W. GUARDRAIL & RAILINGS OF BRIDGE |
| PROJECT TOTAL | 8 | |
| 78200005 | | |

| SEEDING, CLASS 2A (SPECIAL) | | |
|-----------------------------|-------------|---------|
| STATION | ACRE | REMARKS |
| T.R. 222 | | |
| LT STA 16+85 - 17+74 | 0.03 | |
| LT STA 17+92 - 19+62 | 0.08 | |
| LT STA 20+67 - 24+00 | 0.14 | |
| RT STA 16+85 - 19+34 | 0.10 | |
| RT STA 20+39 - 21+91 | 0.07 | |
| RT STA 22+09 - 23+80 | 0.07 | |
| PROJECT TOTAL | 0.49 | |
| *X2501020 | | |

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| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
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| | | | |

| | |
|----------|-----|
| DESIGNED | GBG |
| DRAWN | BAW |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



WILLET HOFMANN & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

SCHEDULE OF QUANTITIES

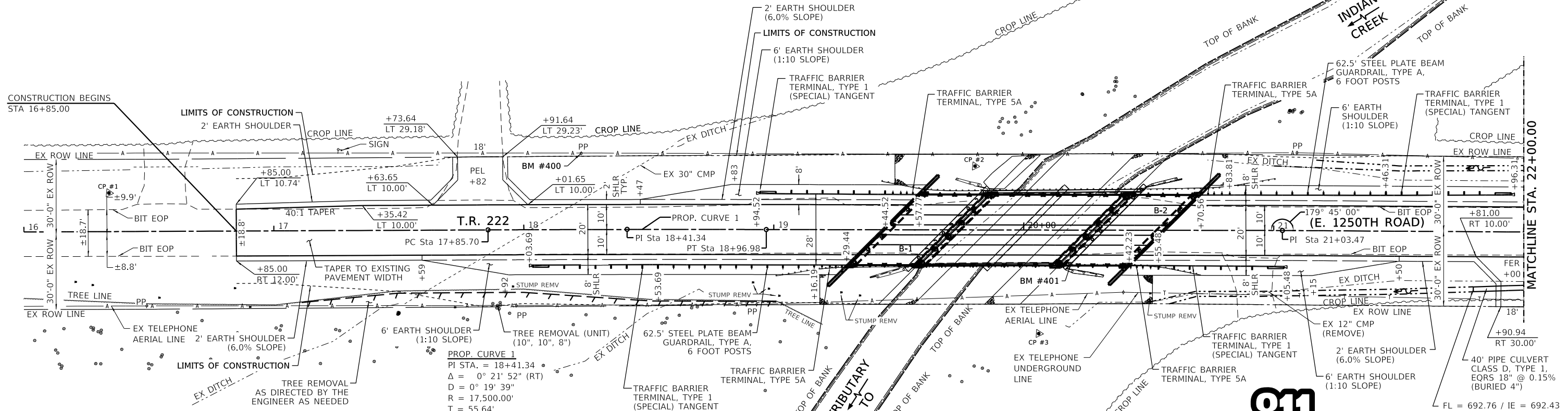
SHEET NO. 2 OF 2 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 6 |
| WHA# 1392019 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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BENCH MARK #400: RR SPK. IN 2ND PP S. OF STRUCTURE
30' LT. OF STA. 18+23
ELEV. 692.22

BENCH MARK #401: CHSLD "□" ON N. END OF E. HUB GUARD
OF STRUCTURE 13' RT. OF STA. 20+19,
ELEV. 696.31



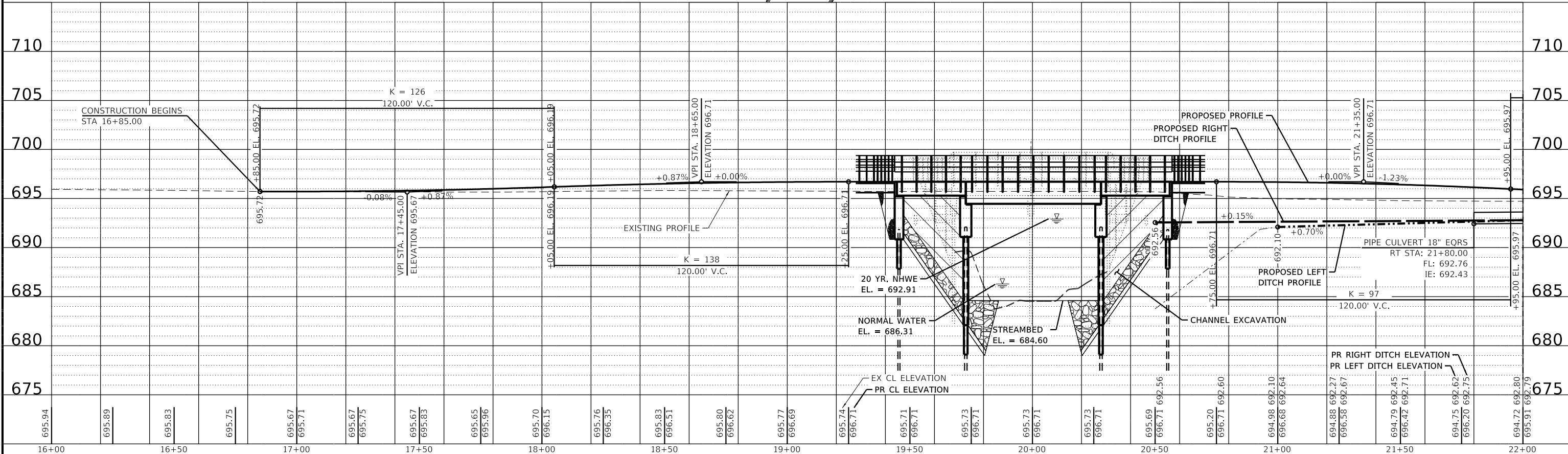
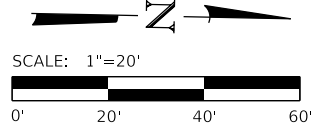
| E. 1250TH ROAD OVER A TRIBUTARY TO INDIAN CR. - HORIZONTAL CONTROL POINTS | | | | | |
|---|--------------------|------------|-----------|--------|---------------|
| PT # | STA | N | E | ELEV. | DESCRIPTION |
| 1 | 15.5' LT. 16+39.08 | 1797621.63 | 822386.10 | 695.08 | 3/4" IP w/CAP |
| 2 | 25.5' LT. 19+80.47 | 1797966.41 | 822349.84 | 693.80 | 3/4" IP w/CAP |
| 3 | 41.4' RT. 20+06.67 | 1797996.75 | 822414.78 | 692.77 | 3/4" IP w/CAP |
| 4 | 14.6' RT. 24+00.12 | 1798392.17 | 822360.68 | 695.87 | 3/4" IP w/CAP |

PROP. CURVE 1
PI STA. = 18+41.34
Δ = 0° 21' 52" (RT)
D = 0° 19' 39"
R = 17,500.00'
T = 55.64'
L = 111.28'
E = 0.09'
P.C. STA. = 17+85.70
P.T. STA. = 18+96.98

EXISTING STRUCTURE: S.N. 050-3451
TWO SPAN (31'-6 3/4") PRECAST
PRESTRESSED CONCRETE BEAMS
ON WOOD PILE BENTS.
AT STA. 20+00. 45° LT. AHD. SKEW.

PROPOSED STRUCTURE: S.N. 050-3625
THREE SPAN (26'-0"; 59'-0"; 26'-0")
PRECAST PRESTRESSED CONCRETE
DECK BEAMS ON SPILL THROUGH
CONCRETE ABUTMENTS AT STA. 20+00.
45° LT. AHEAD SKEW.

FIELD ENTRANCE
EXISTING FIELD ENTRANCE
AT STA: 20+90 WILL BE
RELOCATED TO
STA: 22+00



| REVISION | DATE | BY | REMARKS |
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| DESIGNED | GBG |
| DRAWN | DAN |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

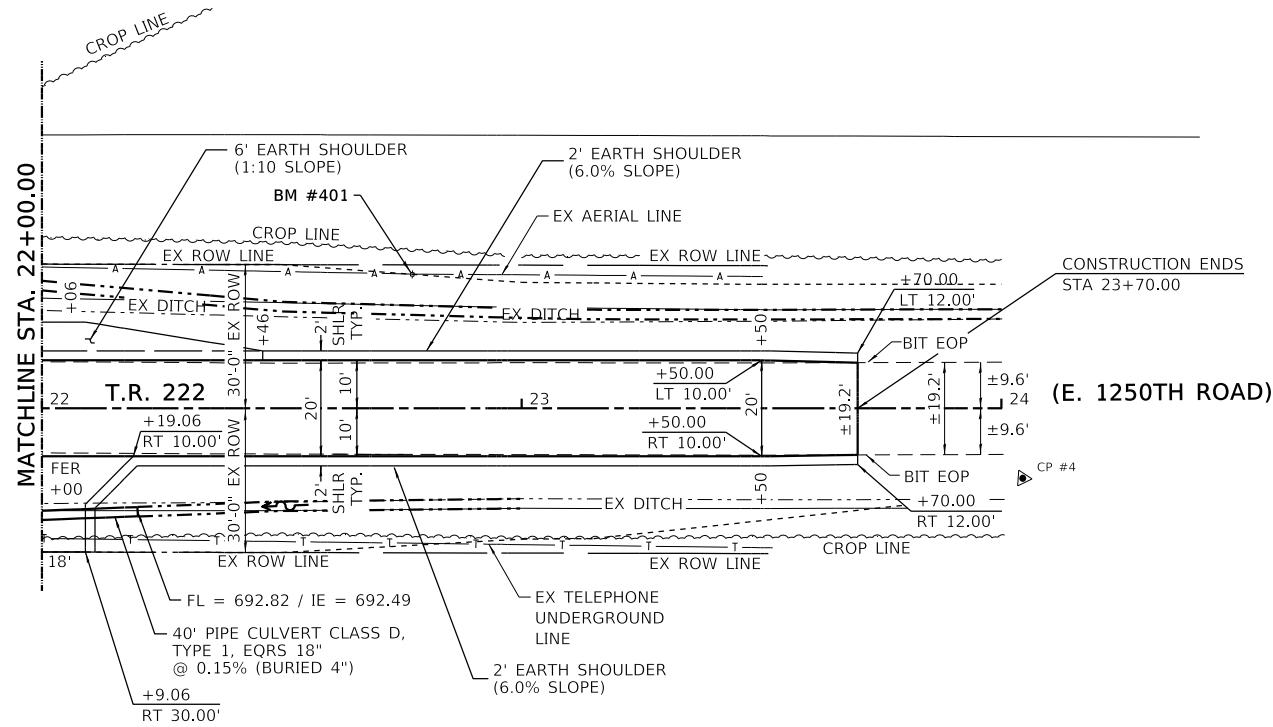


PLAN AND PROFILE
SCALE: 1" = 20'-0"
SHEET NO. 1 OF 2 SHEETS
STA. 16+00.00 TO STA. 22+00.00

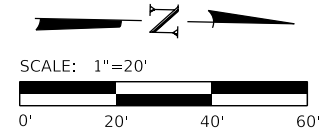
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 7 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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BENCH MARK #402: RR SPK. IN 2ND PP N. OF STRUCTURE
27' LT. OF STA. 22+78
ELEV. 695.49



Know what's below.
Call before you dig.



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| REVISION | DATE | BY | REMARKS |
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| | | | |

DESIGNED GBG
DRAWN DAN
REVIEWED GFS
APPROVED MRL

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

WILLET HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

PLAN AND PROFILE

SCALE: 1" = 20'-0" SHEET NO. 2 OF 2 SHEETS STA. 22+00.00 TO STA. 24+00.00

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 8 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

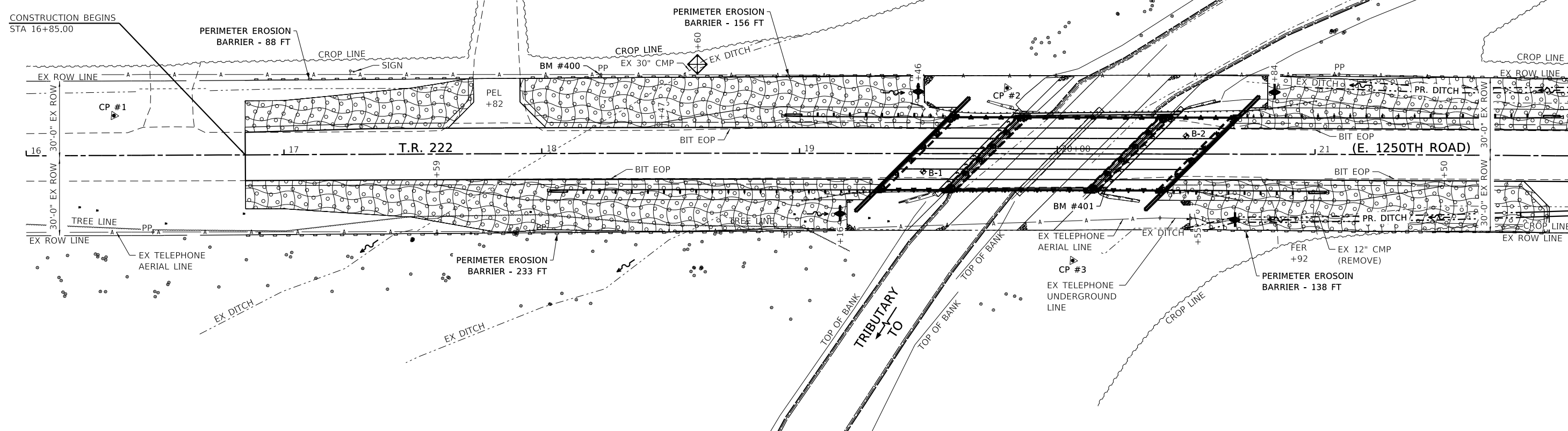
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BENCH MARK #400: RR SPK. IN 2ND PP S. OF STRUCTURE
30' LT. OF STA. 18+23
ELEV. 692.22

BENCH MARK #401: CHSLD "□" ON N. END OF E. HUB GUARD
OF STRUCTURE 13' RT. OF STA. 20+19,
ELEV. 696.31

CONSTRUCTION BEGINS
STA 16+85.00

MATCHLINE STA. 22+00.00



EROSION CONTROL NOTES:

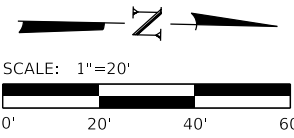
- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS. /ACRES.
- EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 1V:5H AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
- ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
- TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001 LOCATED IN THE PROPOSAL.
- EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.
- THE USE OF ASPHALT AS A BINDER IS NOT ACCEPTABLE.
- ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.
- PERIMETER EROSION BARRIER SHALL BE PLACED AROUND ANY TEMPORARY EARTH STOCKPILES.

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-----------------------------------|---------|----------|
| EROSION CONTROL BLANKET | SQ. YD. | 2,233 |
| TEMPORARY EROSION CONTROL SEEDING | POUND | 49 |
| TEMPORARY DITCH CHECKS | FOOT | 40 |
| PERIMETER EROSION BARRIER | FOOT | 1,104 |
| INLET AND PIPE PROTECTION | EACH | 2 |
| SEEDING, CLASS 2A (SPECIAL) | ACRE | 0.49 |

LEGEND

- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2A (SPECIAL)
- TEMPORARY DITCH CHECKS
- DIRECTION OF FLOW
- INLET AND PIPE PROTECTION



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| DESIGNED | GBG |
| DRAWN | DAN |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



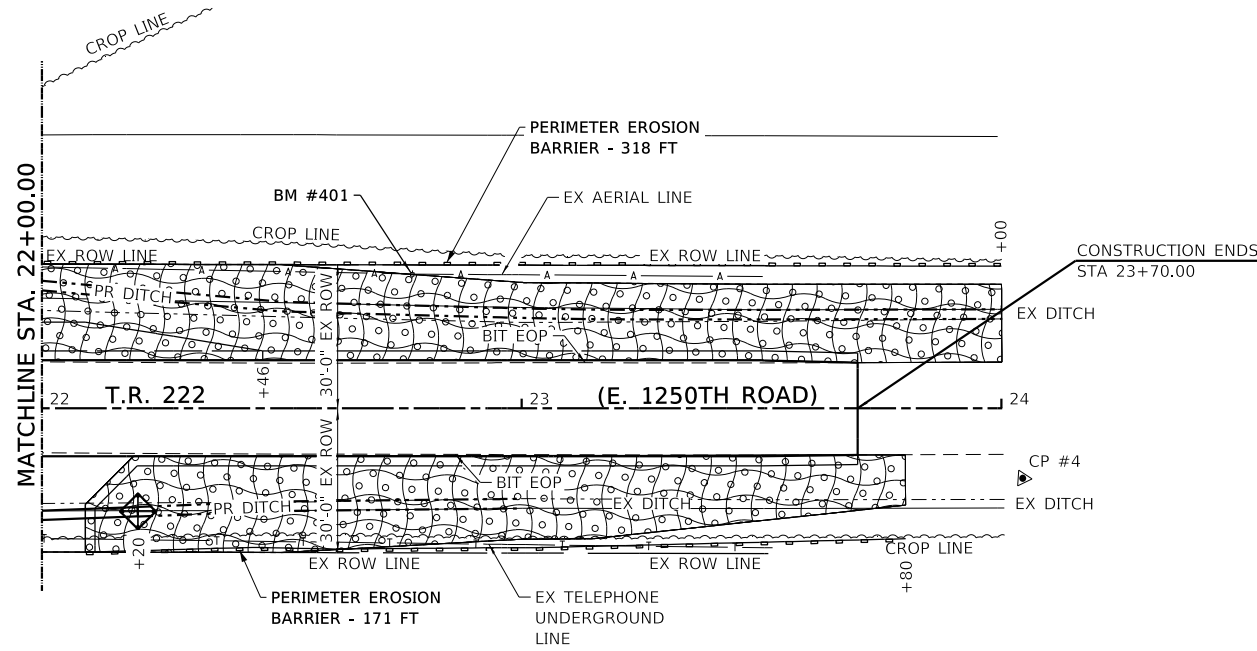
EROSION CONTROL PLAN
SCALE: 1" = 20'-0" SHEET NO. 1 OF 2 SHEETS STA. 16+00.00 TO STA. 22+00.00

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 9 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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BENCH MARK #402: RR SPK. IN 2ND PP N. OF STRUCTURE
27' LT. OF STA. 22+78
ELEV. 695.49



STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

THE CONTRACTOR SHALL PLACE INLET AND PIPE PROTECTION WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF SILT ENTERING THE STORM SEWER SYSTEM. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION / DESCRIPTION OF CONSTRUCTION ACTIVITY:

CONSTRUCTION OF A NEW BRIDGE AT T.R. 222 (E. 1250TH ROAD) OVER INDIAN CREEK IN EARL TOWNSHIP, LASALLE COUNTY, IL.

THIS PROJECT CONSISTS OF EARTH AND CHANNEL EXCAVATION, ROADWAY SLOPE AND DITCH REGRADING, REMOVAL AND REPLACEMENT OF THE EXISTING BRIDGE, VARIOUS OTHER ROADWAY ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES PER STAGE:

INSTALLATION OF EROSION CONTROL DEVICES SUCH AS PERIMETER EROSION BARRIER, REMOVAL OF THE EXISTING BRIDGE, EARTH AND CHANNEL EXCAVATION, CONSTRUCTION OF A NEW BRIDGE, ROAD CONSTRUCTION, RESHAPING OF DITCHES. INSTALLATION OF INLET AND PIPE PROTECTION AND TEMPORARY DITCH CHECKS AS NEEDED. FINAL SEEDING/STABILIZATION OF THE SITE AFTER FINAL GRADING IS COMPLETED.

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 0.98 ACRES

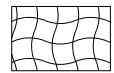

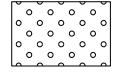

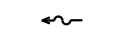

SUPPORTING REPORTS AND PLANS THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

- (a) USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE:

- (a) TRIBUTARY TO INDIAN CREEK

LEGEND

-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  SEEDING, CLASS 2A (SPECIAL)
-  TEMPORARY DITCH CHECKS
-  DIRECTION OF FLOW
-  INLET AND PIPE PROTECTION

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES:

STABILIZATION PRACTICES TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION:

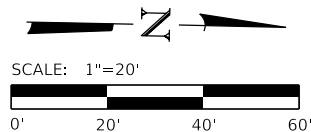
- (a) INSTALLATION OF PERIMETER EROSION BARRIER SHOWN AT THE LIMITS OF CONSTRUCTION.

STABILIZATION PRACTICES DURING CONSTRUCTION:

- (a) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS. COST OF SEEDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION.
- (c) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING MEASURES AS DIRECTED BY THE ENGINEER:
 - (i) TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT AND CONSTRUCTION LIMITS.
- (d) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH THE EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- (e) THE RESIDENT ENGINEER SHALL INSPECT THE PRODUCT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE, AND IF OTHER EROSION CONTROL MEASURES ARE NECESSARY.
- (f) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EARTH EXCAVATION (SPECIAL).



Know what's below.
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| DESIGNED | GBG |
| DRAWN | DAN |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

EROSION CONTROL PLAN

SCALE: 1" = 20'-0" SHEET NO. 2 OF 2 SHEETS STA. 22+00.00 TO STA. 24+00.00

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 10 |
| WHA# 1392019 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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Existing Structure: S.N. 050-3451 Built in 1977 under Earl Twp. Section 76-09263-00-BR at Station 2+77 as a 2 span (2 @ 31'-6 3/4", skewed 45° Lt. Ahead) precast prestressed concrete deck beam bridge on concrete pile caps. The structure is supported by creosoted timber piles, closed timber abutments and pile bent piers. 32'-4" end to end of beam and 30'-0" out to out of deck. The existing structure is to be removed and replaced.

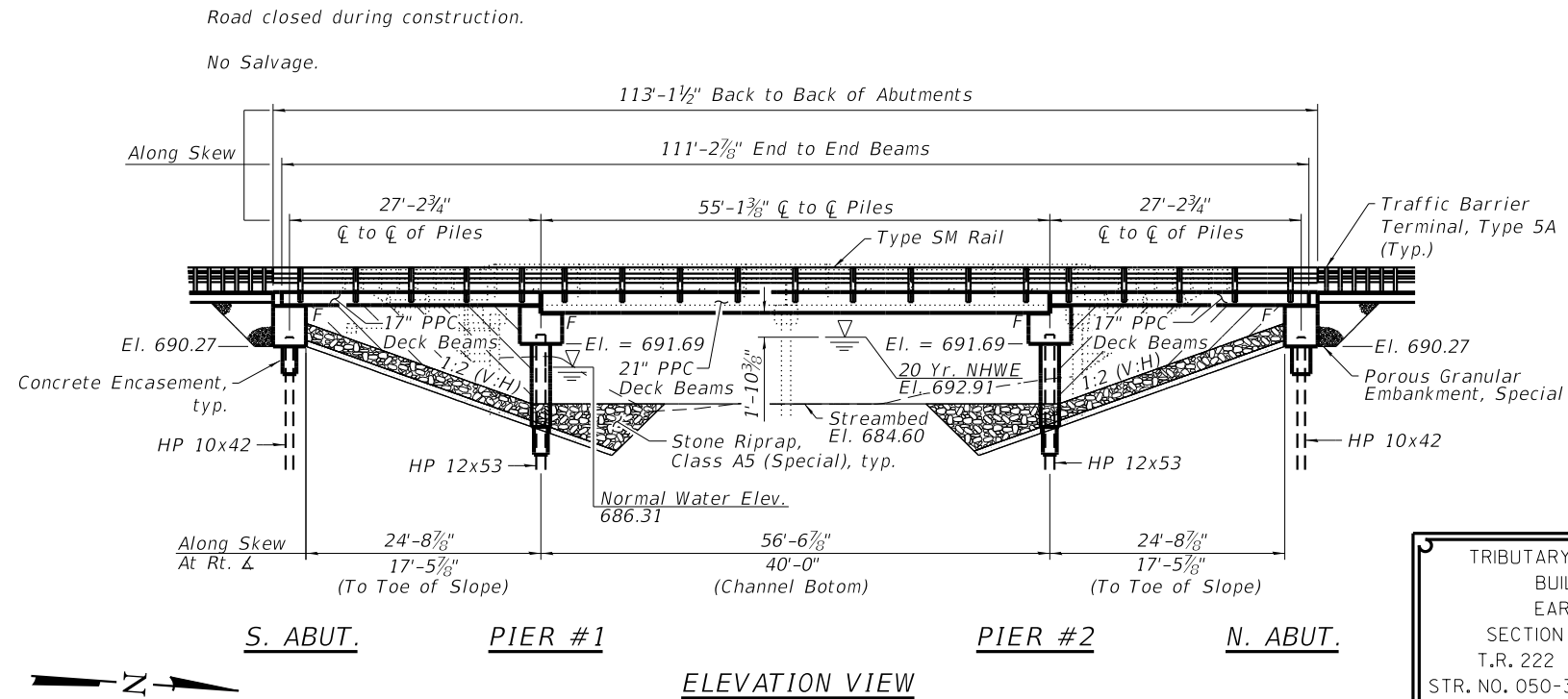
Bench Mark : #401 Chisled "C" in North end of East hub guard. Structure No. 050-3451. 13.33' Rt. of Sta. 20+18.92. Elev. 696.31

BILL OF MATERIAL - BRIDGE

Table with columns: Item, Unit, Super, Sub, Total. Lists materials like Channel Excavation, Concrete Structures, Reinforcement Bars, etc.

INDEX OF STRUCTURAL SHEETS

- 1 General Plan and Elevation
2-3 Riprap and Pile Layout
4 17"x48" PPC Deck Beam
5 17"x48" PPC Deck Beam Details
6 21"x48" PPC Deck Beam Details
7 21"x48" PPC Deck Beam Details
8 Fixed Bearing Details
9 Abutment Details
10-11 Pier Details
12 Steel Railing, Type SM Details
13 HP Pile Details
14-16 Boring Logs



TRIBUTARY TO INDIAN CREEK
BUILT 2022 BY
EARL TOWNSHIP
SECTION 18-09808-00-BR
T.R. 222 STATION 20+00
STR. NO. 050-3625 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001-04

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
The channel shall be transitioned to fit the proposed structure inside the Right of Way. Cost shall be included in price per Cubic Yard for Channel Excavation.

HIGHWAY CLASSIFICATION

T.R. 222 (E. 1250th Road)
Functional Class: Local Road
ADT: 250 (2016); 276 (2021)
ADTT: 10 (2016); 11 (2021)
DHV: 25
Design Speed: 40 m.p.h.
Posted Speed: 55 m.p.h.
2-Way Traffic
Directional Distribution: 50:50

WATERWAY INFORMATION

Table with columns: Flood, Freq. Yr., C.F.S., Opening Sq. Ft., Nat. H.W.E., Head - Ft., Headwater El. Includes rows for Design, Base, Scour Check, and Max. Calc.

DESIGN SCOUR ELEVATION TABLE

Table with columns: Event / Limit, Design Scour Elevations (ft.), S. Abut., Pier 1, Pier 2, N. Abut., Item 113. Includes rows for Design and Check.

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. (SD1) = 0.093 g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.163 g
Soil Site Class = D

PROFILE GRADE

(Along Roadway @)

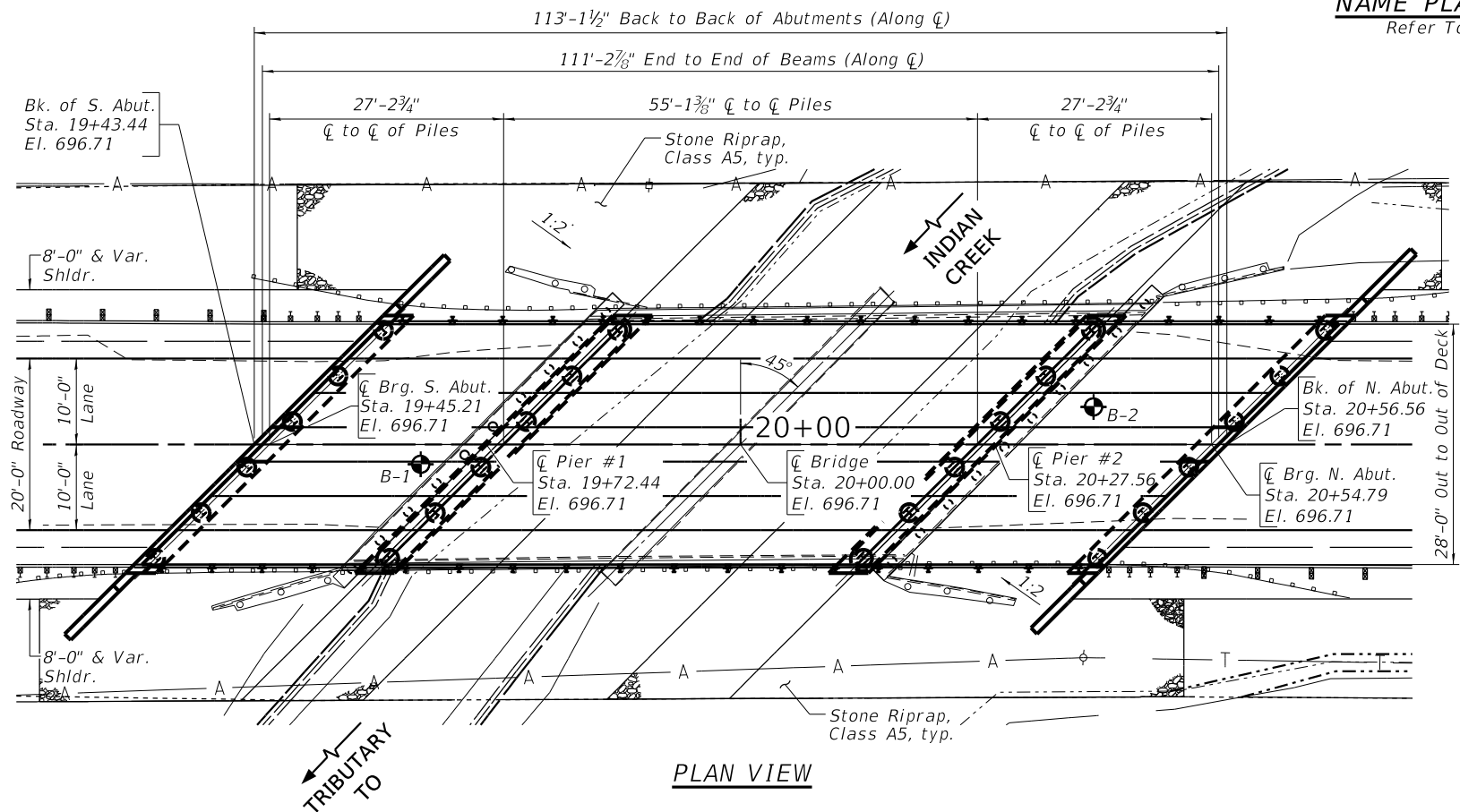
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

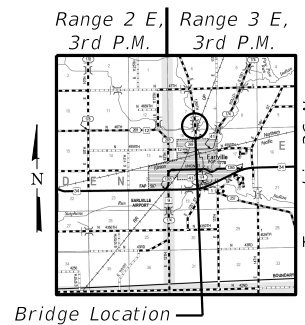
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" Low Lax Strands)
fpbt = 201,960 psi (1/2" Low Lax Strands)



DATE: 08-27-2021
EXPIRES 11/30/22

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 COMPLIES WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES'.



GENERAL PLAN AND ELEVATION
T.R. 222 (E. 1250TH ROAD) OVER
TRIBUTARY TO INDIAN CREEK

SEC. 18-09808-00-BR
LASALLE COUNTY
STATION 20+00.00
STRUCTURE NO. 050-3625

Table with columns: REVISION, DATE, BY, REMARKS. Includes rows for DESIGNED, DRAWN, REVIEWED, APPROVED.

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

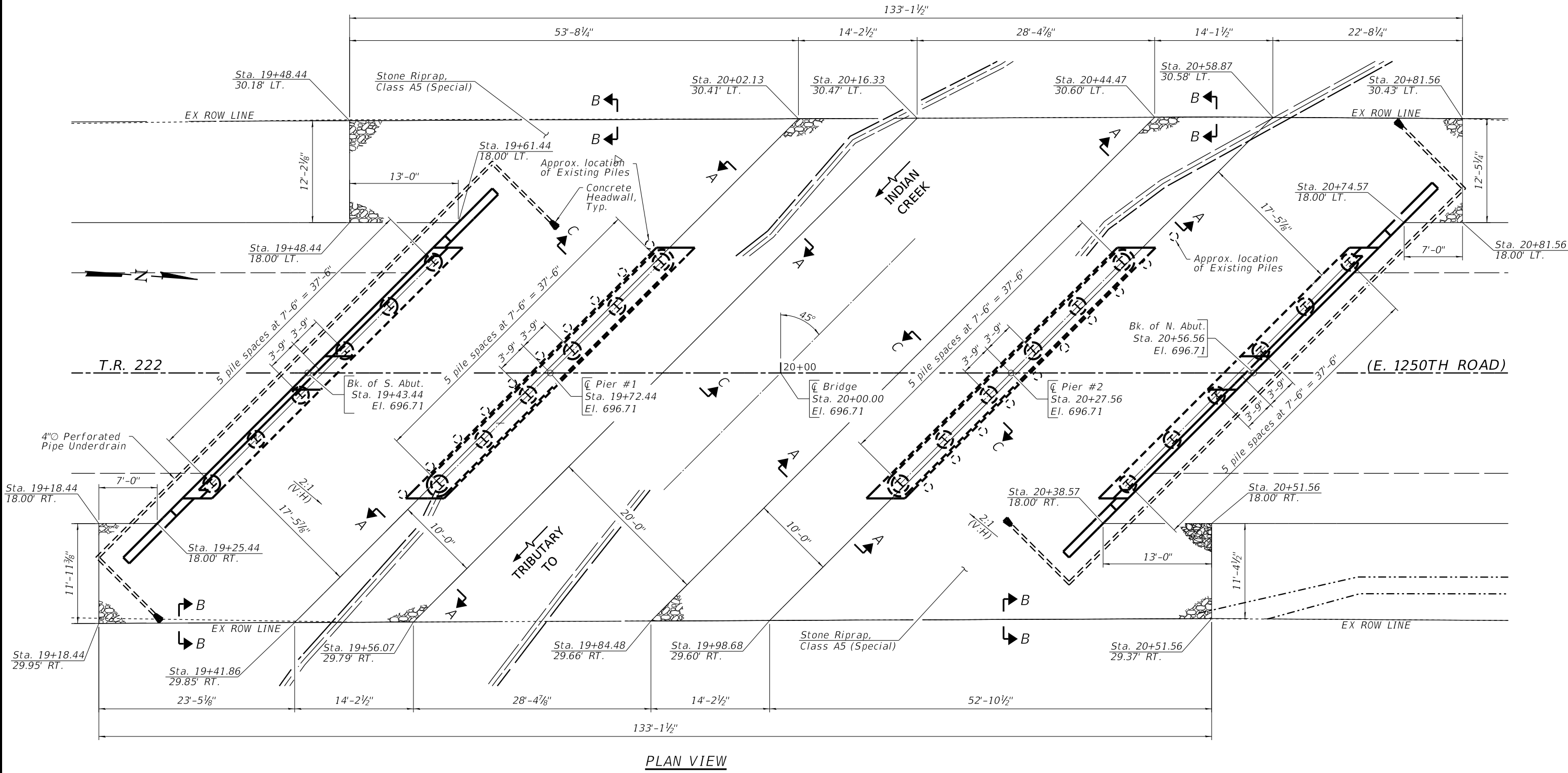


STRUCTURAL SHEET NO. 1 OF 16 SHEETS

Table with columns: T.R., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Includes values for 222, 18-09808-00-BR, LASALLE, 31, 11, WHA# 1392D19, CONTRACT NO. 87742.

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PLAN VIEW

BILL OF MATERIAL

| | | |
|----------------------------------|---------|-----|
| Stone Riprap, Class A5 (Special) | Ton | 641 |
| Geocomposite Wall Drain | Sq. Yd. | 23 |
| Pipe Underdrains for Structures | Foot | 186 |

Note:
See Structural Sheet 3 of 16
for additional details.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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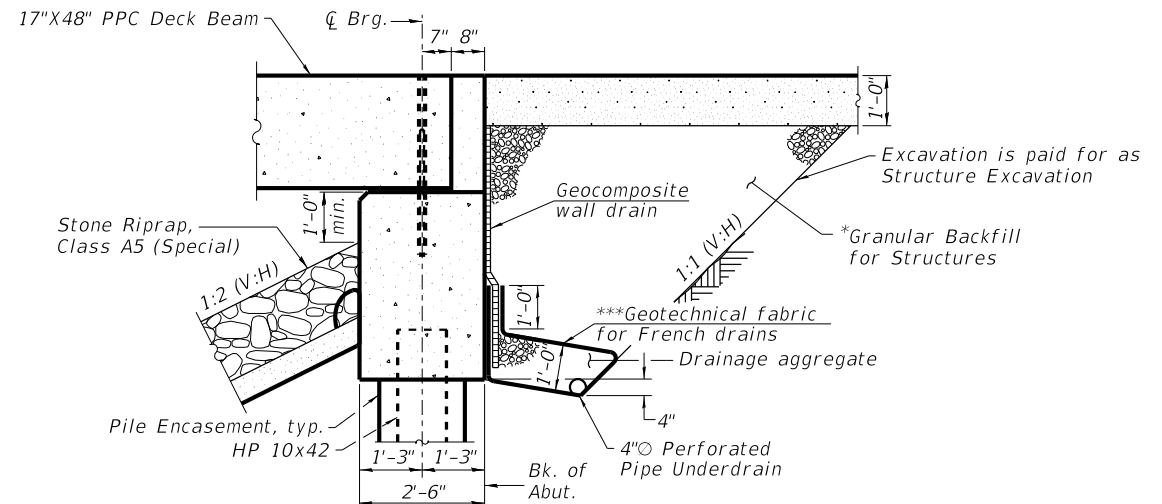
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|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

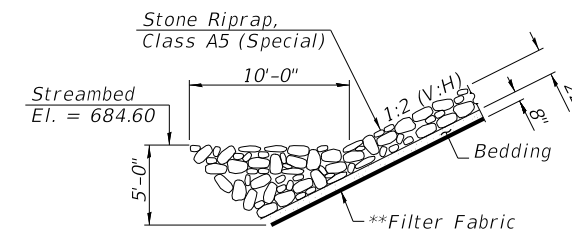
WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

RIPRAP & PILE LAYOUT
STRUCTURAL SHEET NO. 2 OF 16 SHEETS

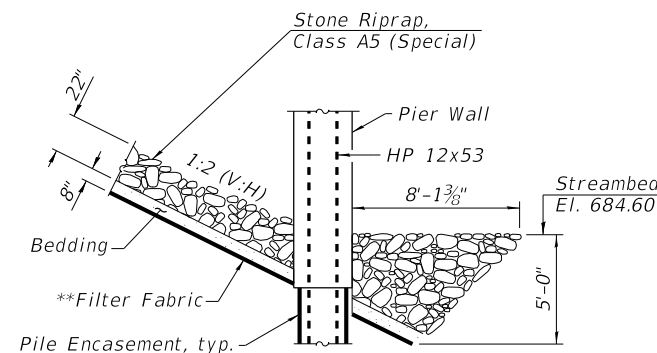
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|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 12 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



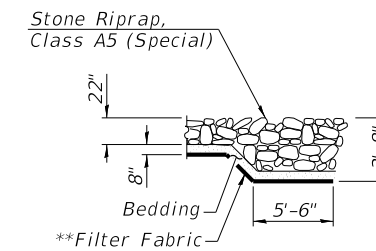
SECTION THRU ABUTMENT
(Dimensions at Rt. Δ)



SECTION A-A



SECTION C-C



SECTION B-B

Note:
 * Pay Limits of Granular Backfill for Structures shall extend to 2'-0" in from the end of each wingwall.
 ** Cost included in Stone Riprap, Class A5 (Special).
 *** All drainage system components shall extend to 2'-0" from end of wingwall except an outlet pipe shall extend until intersecting with slope. The pipes shall drain into concrete headwalls. Cost of Concrete Headwalls with related components and Geotechnical Fabric to be included with Pipe Underdrains for Structures. (See Special Provisions).

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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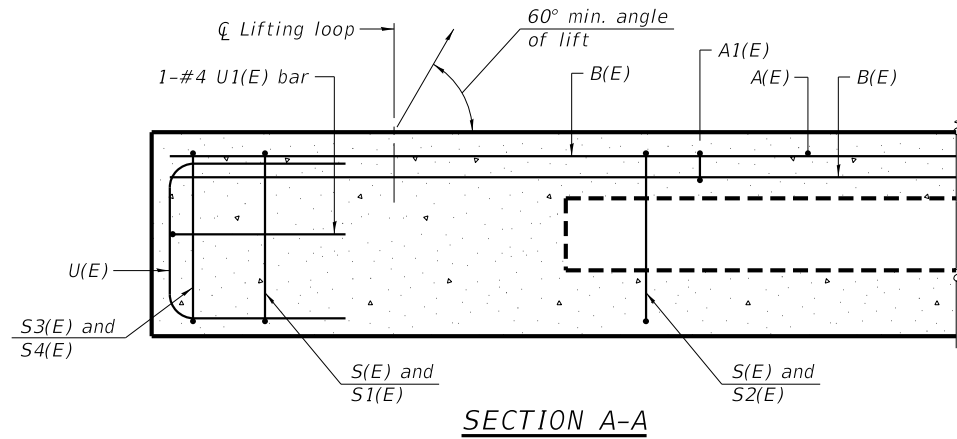
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|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

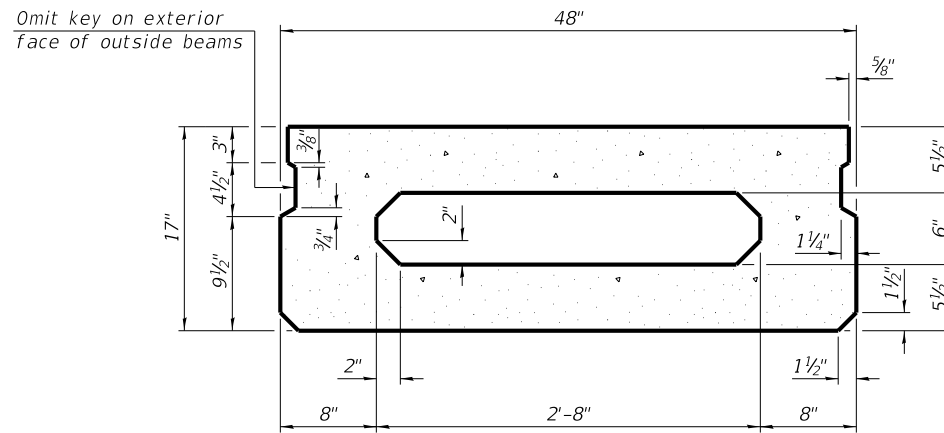
WILLET HOFMANN & ASSOCIATES, INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

RIPRAP & PILE LAYOUT
STRUCTURAL SHEET NO. 3 OF 16 SHEETS

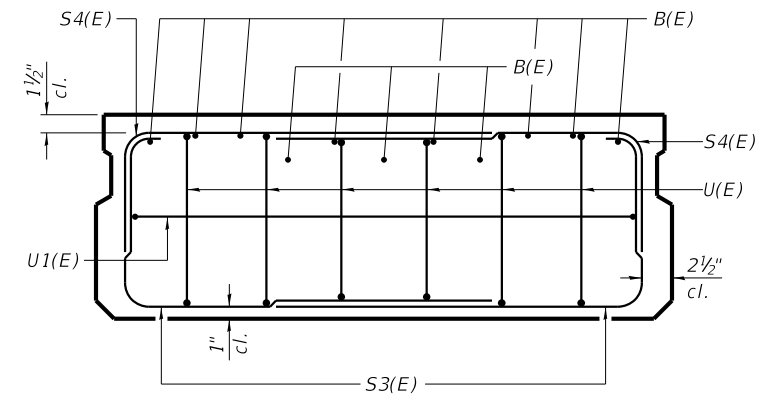
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|---------------------------|----------------|--------------------|--------------|-----------|
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| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



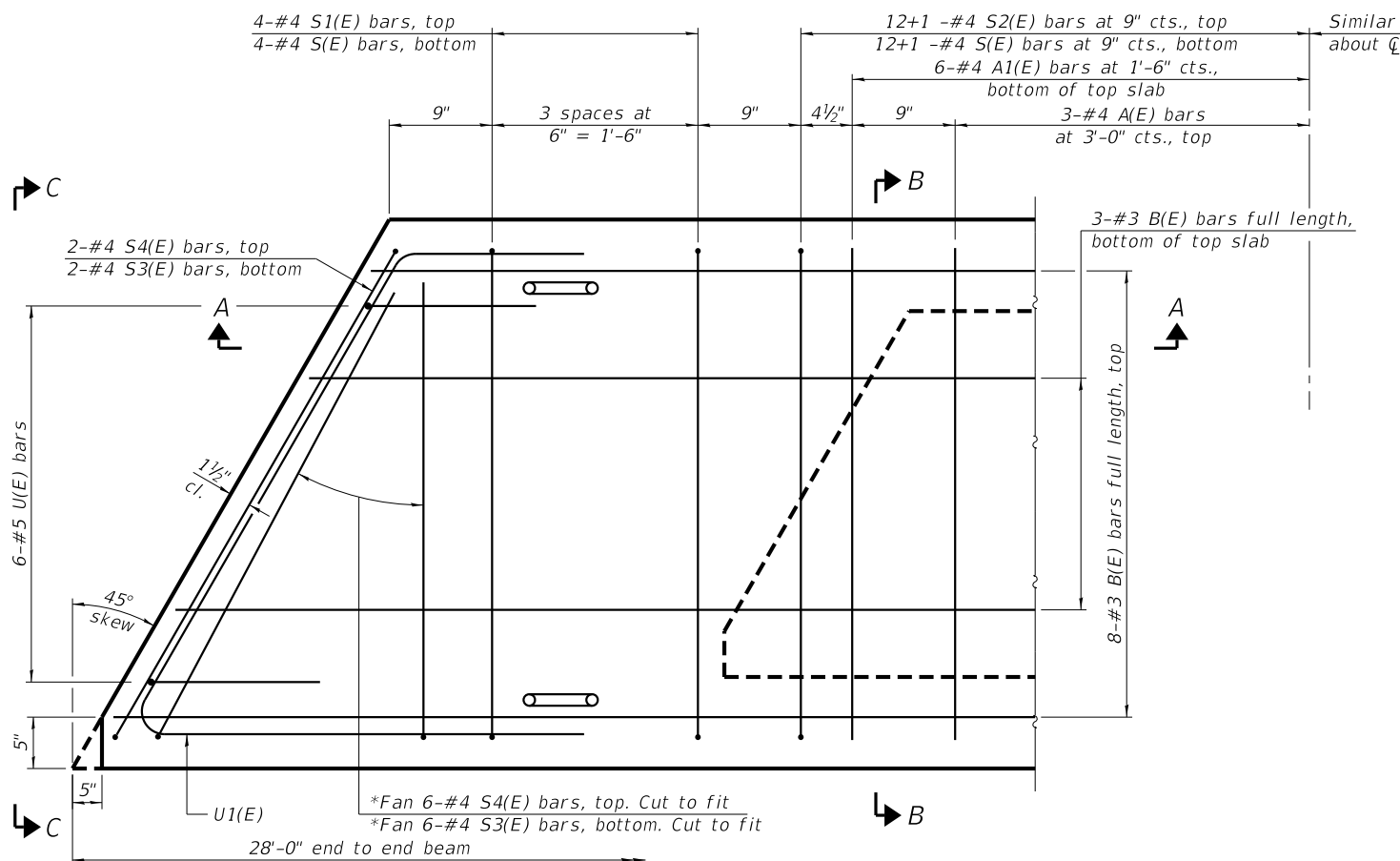
SECTION A-A



SECTION B-B
(Showing dimensions)

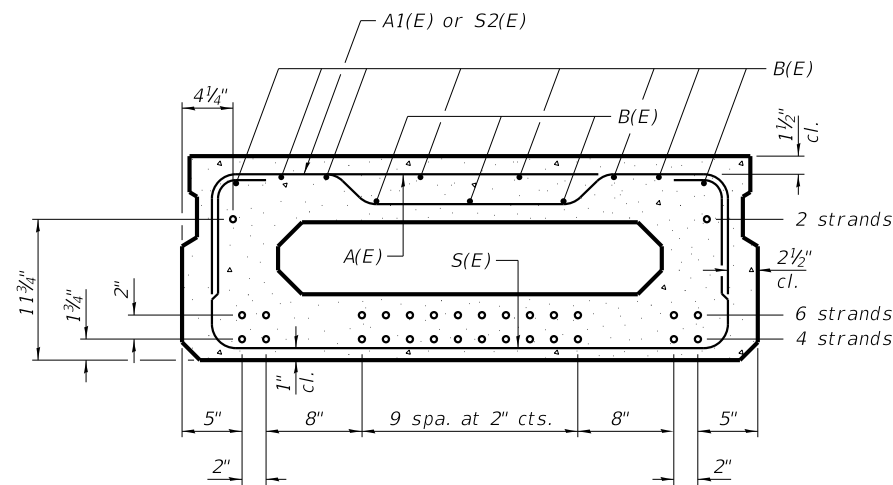


VIEW C-C



PLAN VIEW

*S4(E) & S3(E) bars are placed in sets of 2. See view C-C.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#4 bar = 2'-0"

BAR LIST
ONE BEAM ONLY
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|---------|-------|
| A(E) | 6 | #4 | 3'-7" | — |
| A1(E) | 12 | #4 | 3'-10" | — |
| B(E) | 11 | #3 | 27'-9" | — |
| S(E) | 33 | #4 | 6'-9" | ⌋ |
| S1(E) | 8 | #4 | 5'-3" | ⌋ |
| S2(E) | 25 | #4 | 5'-6" | ⌋ |
| S3(E) | 28 | #4 | 4'-11" | ⌋ |
| S4(E) | 28 | #4 | 4'-2" | ⌋ |
| U(E) | 12 | #5 | 3'-8" | ⌋ |
| U1(E) | 2 | #4 | 10'-11" | ⌋ |

Note:
See sheet 5 of 16 for additional details and Bill of Material.

Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus 12+1-#4, etc., indicates 12 bars each side of centerline plus 1 additional bar at centerline.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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| | | | |
| | | | |

| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

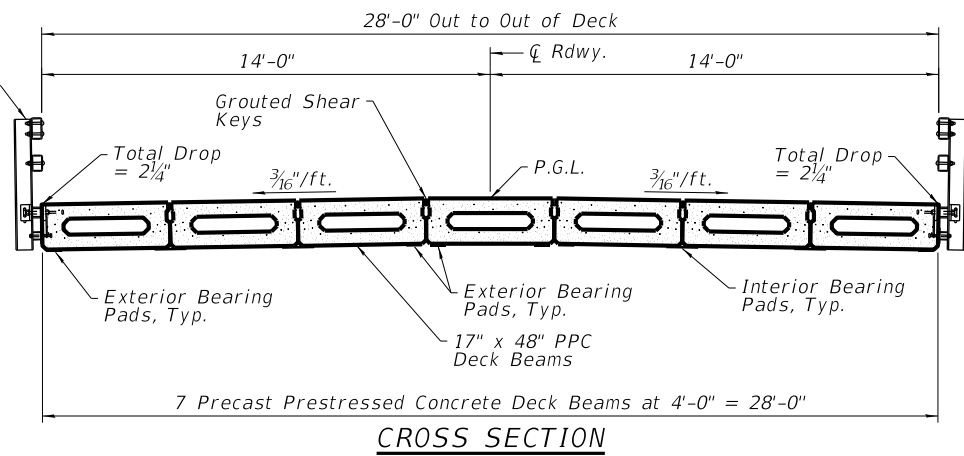
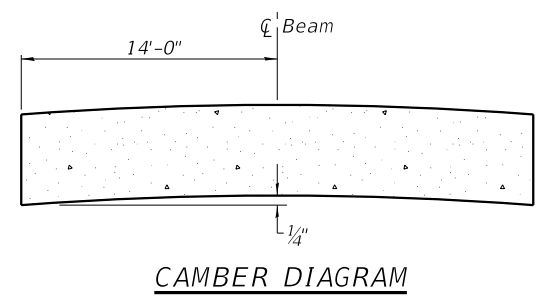
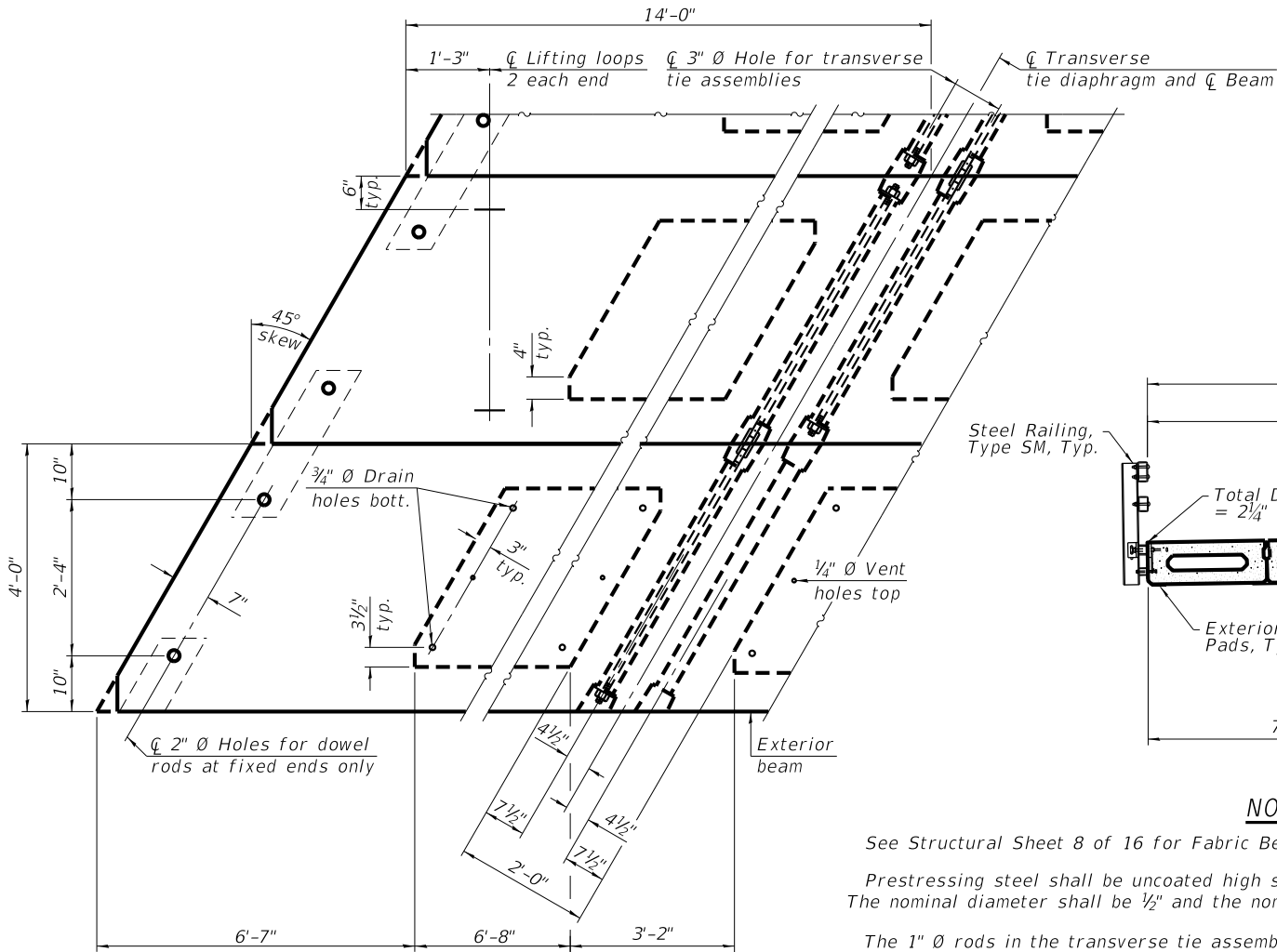
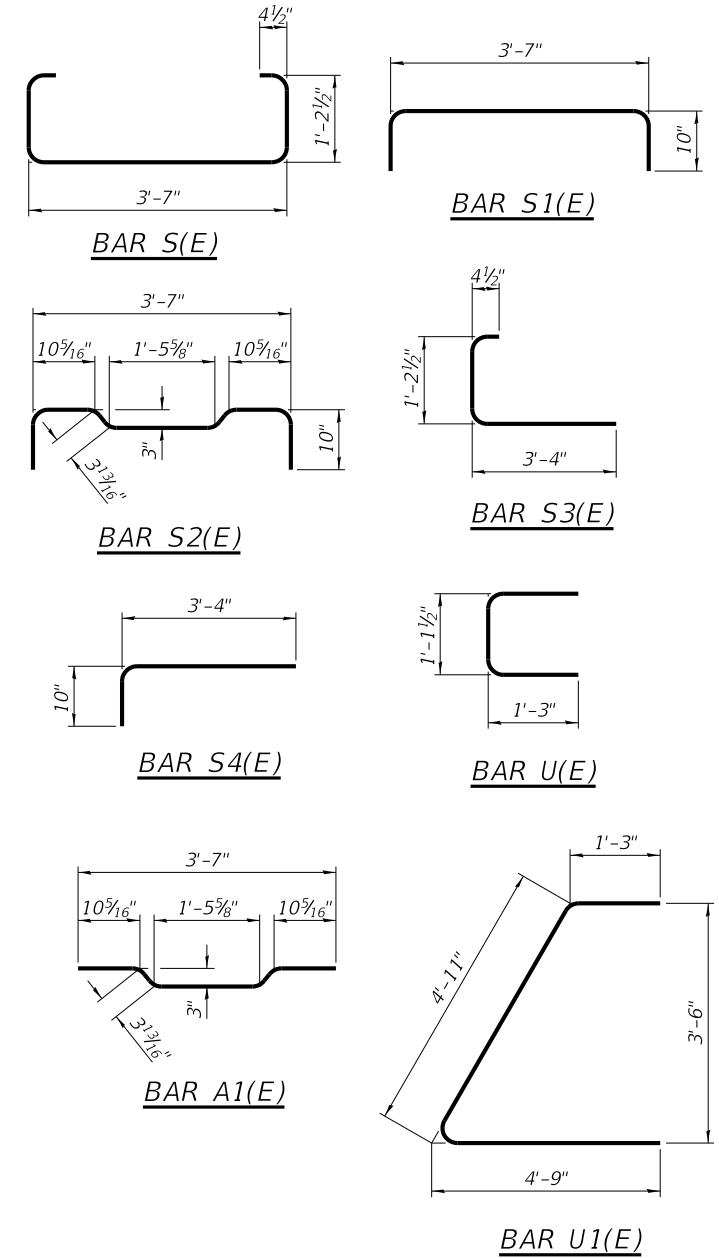
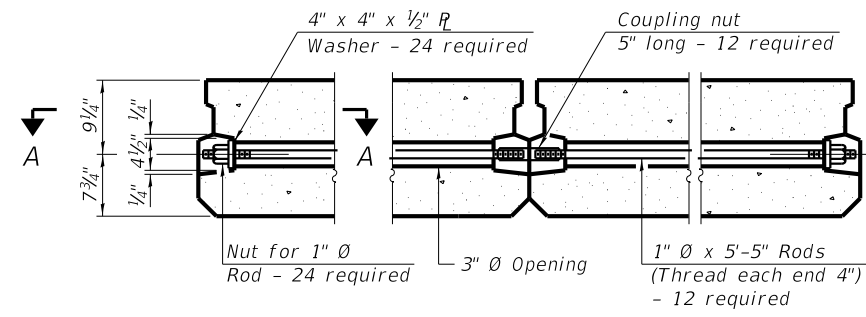
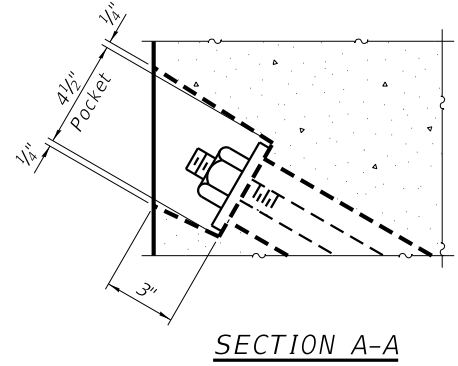
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809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

17" x 48" PPC DECK BEAM
STRUCTURE NO. 050-3625

STRUCTURAL SHEET NO. 4 OF 16 SHEETS

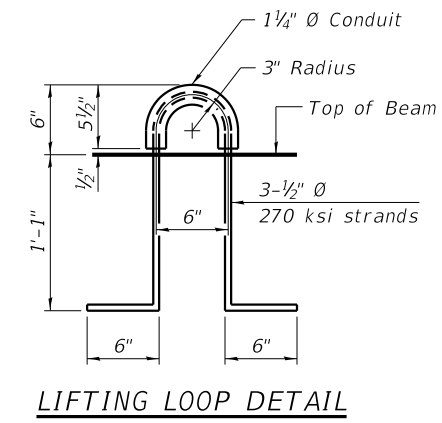
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 14 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |

ILLINOIS FED. AID PROJECT



NOTES

- See Structural Sheet 8 of 16 for Fabric Bearing Pad Details.
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706 Grade 60.
- A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BILL OF MATERIAL

| | | |
|---|---------|-------|
| Precast Prestressed Concrete Deck Beams (17" depth) | Sq. Ft. | 1,568 |
|---|---------|-------|

Note:
Connect beams in pairs with the transverse tie configuration shown.
Unused transverse tie hole on exterior beams can be omitted.

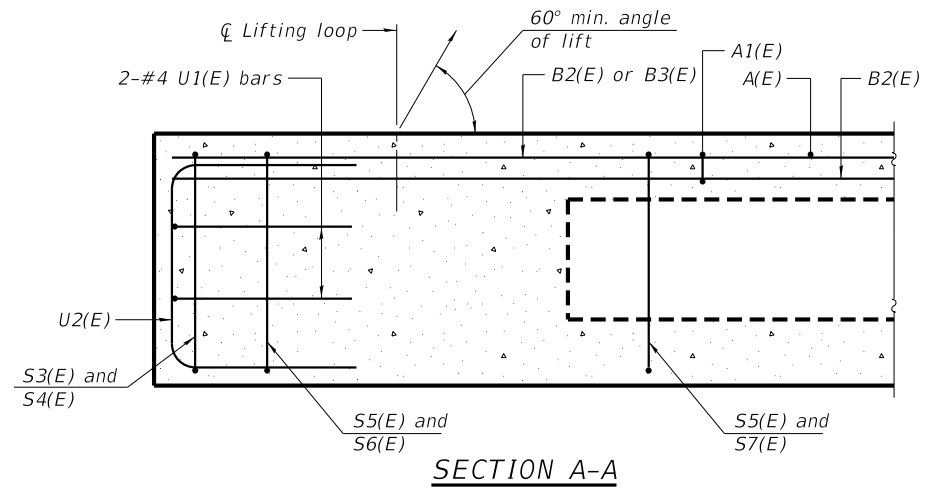
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| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

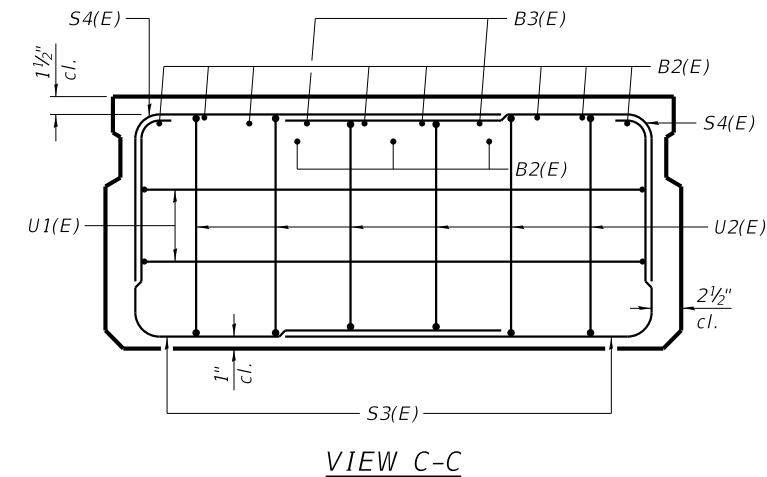
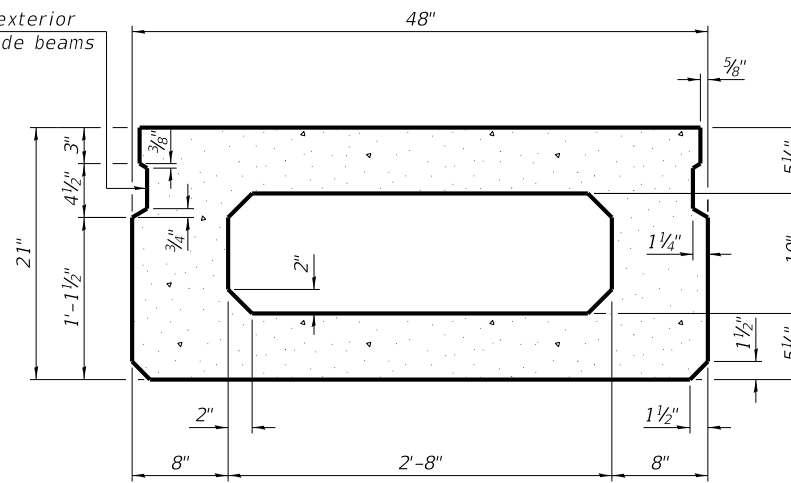
LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

17" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 5 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 15 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

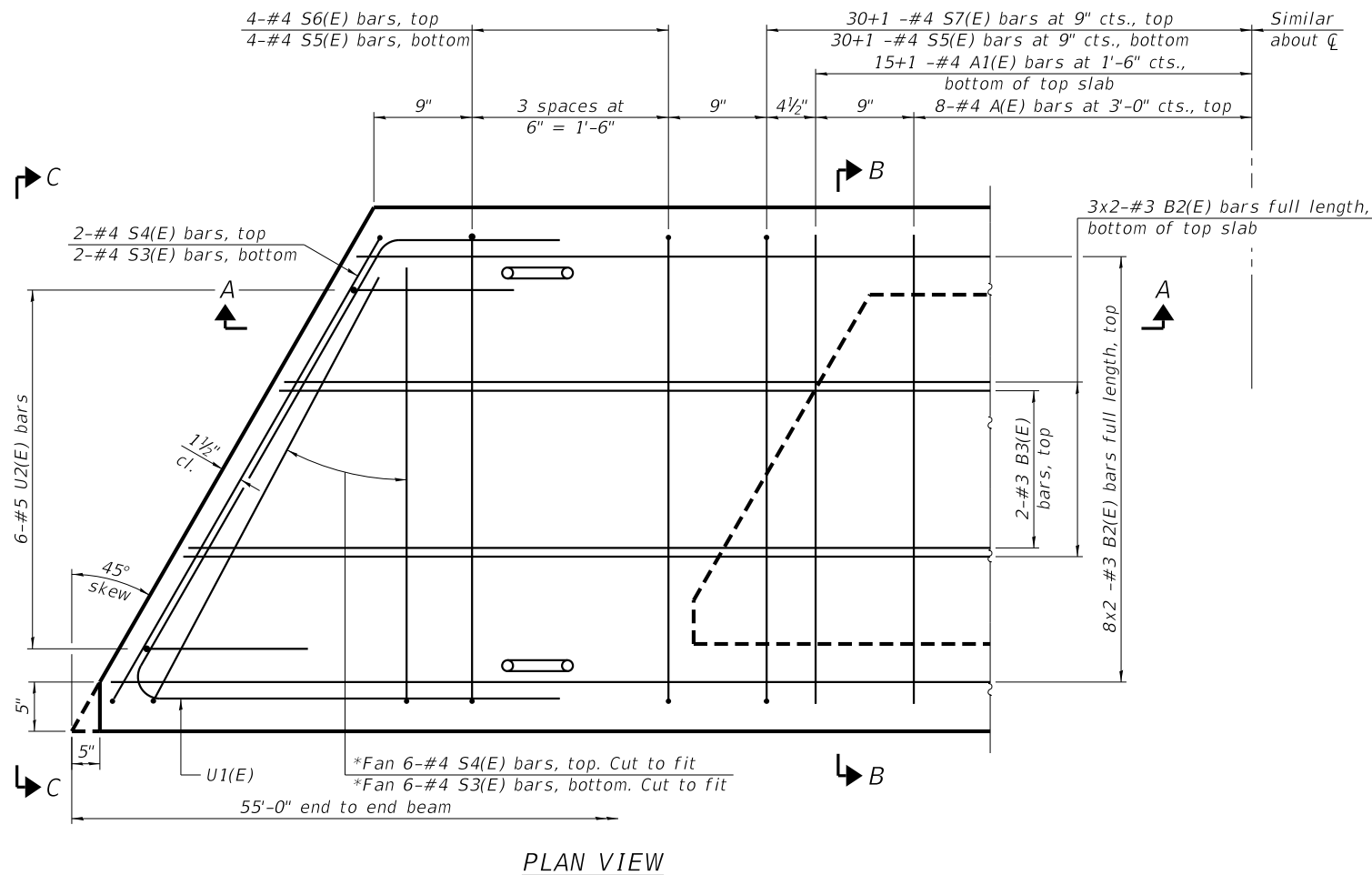


Omit key on exterior face of outside beams

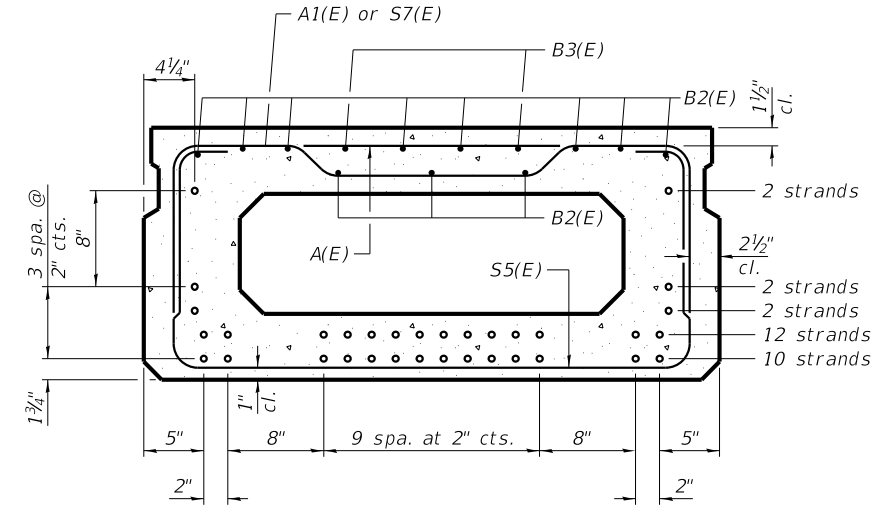


SECTION B-B (Showing dimensions)

VIEW C-C



PLAN VIEW



SECTION B-B (Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|---------|-------|
| A(E) | 16 | #4 | 3'-7" | — |
| A1(E) | 31 | #4 | 3'-10" | ~ |
| B2(E) | 22 | #3 | 28'-2" | — |
| B3(E) | 4 | #3 | 10'-0" | — |
| S3(E) | 28 | #4 | 5'-3" | J |
| S4(E) | 28 | #4 | 4'-6" | J |
| S5(E) | 65 | #4 | 7'-5" | U |
| S6(E) | 8 | #4 | 5'-11" | U |
| S7(E) | 61 | #4 | 6'-2" | U |
| U1(E) | 4 | #4 | 10'-11" | L |
| U2(E) | 12 | #5 | 4'-0" | C |

Note:
See sheet 7 of 16 for additional details and Bill of Material.
Spacing of S5(E) and S6(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 8x2 -#3 etc., indicates 8 lines of bars with 2 lengths per line.
Bars indicated thus 30+1-#4, etc., indicates 30 bars each side of centerline plus 1 additional bar at centerline.

*S4(E) and S3(E) bars are placed in sets of 2. See View C-C.

Note:
Spacing of S5(E) and S7(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#4 bar = 2'-0"

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |

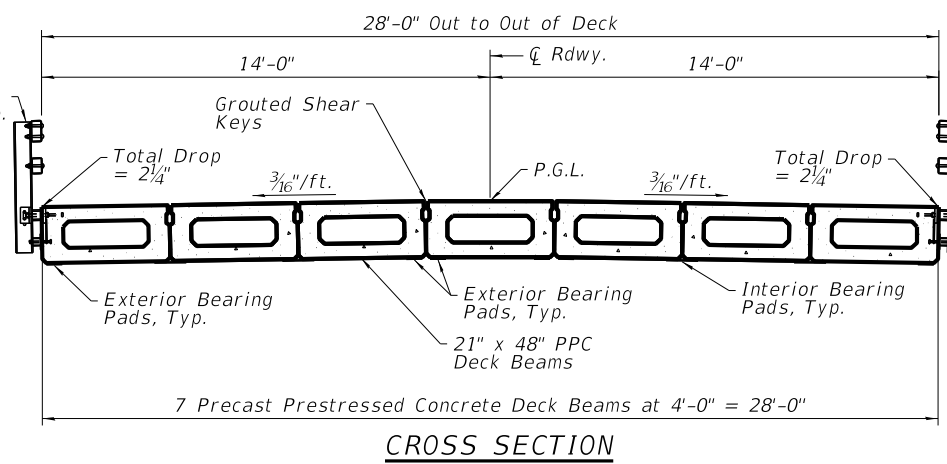
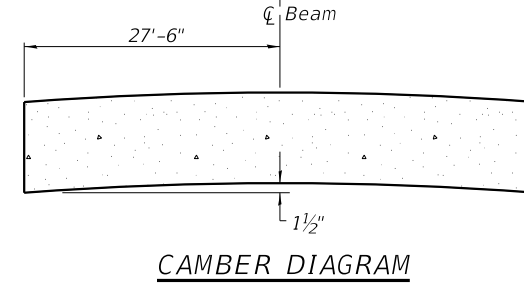
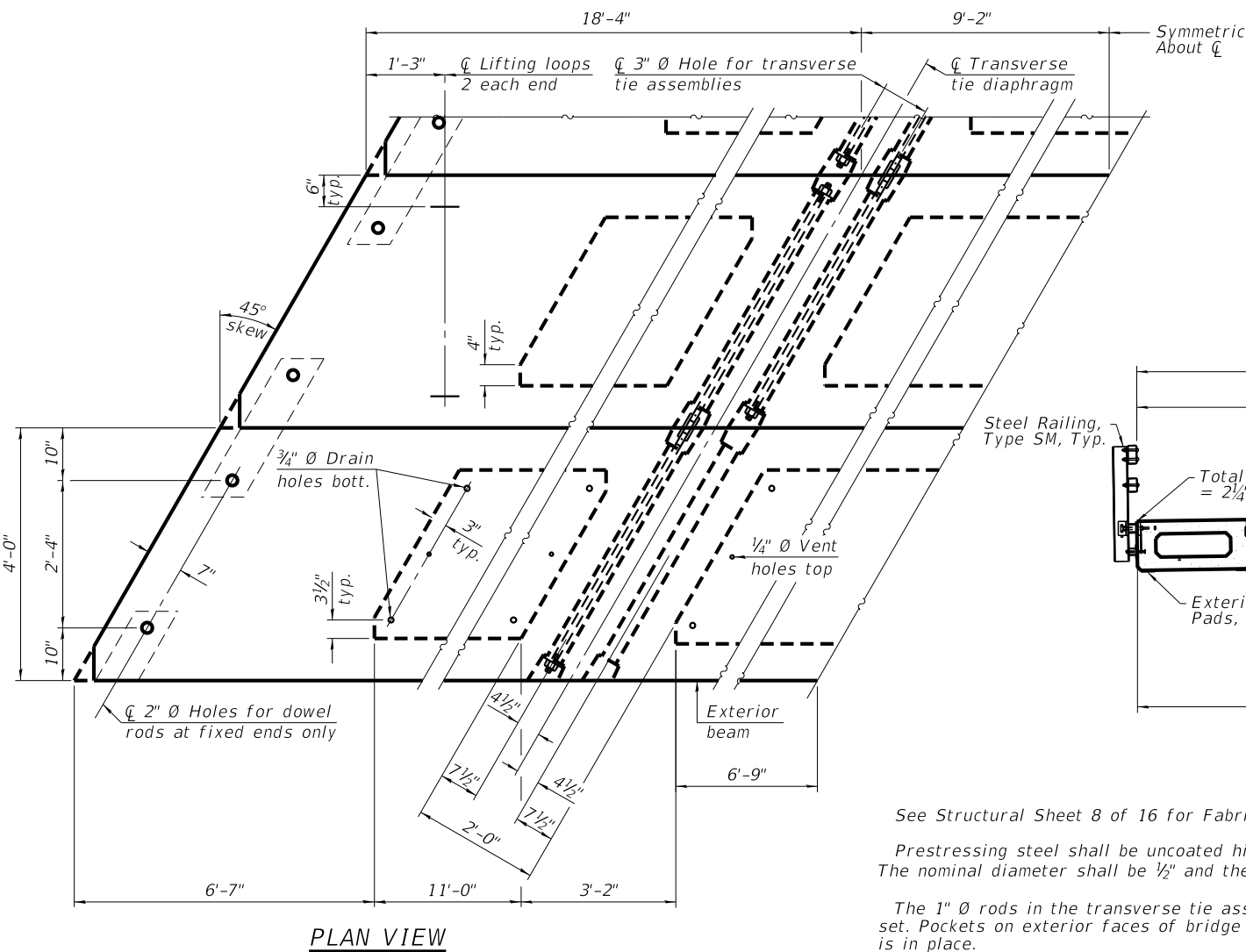
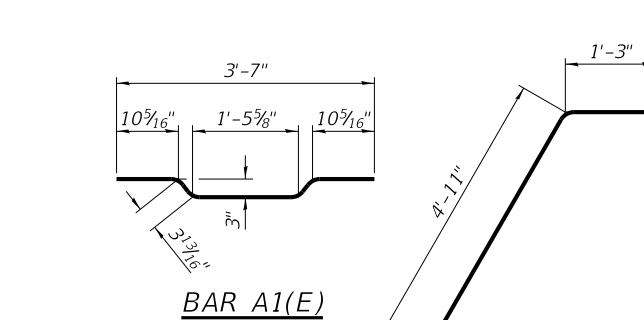
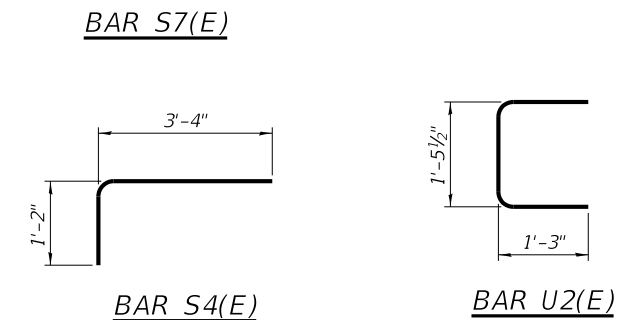
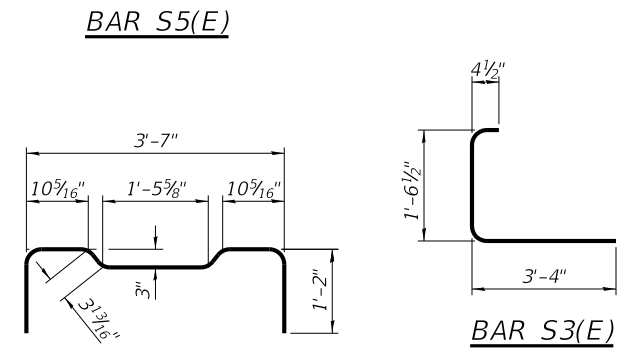
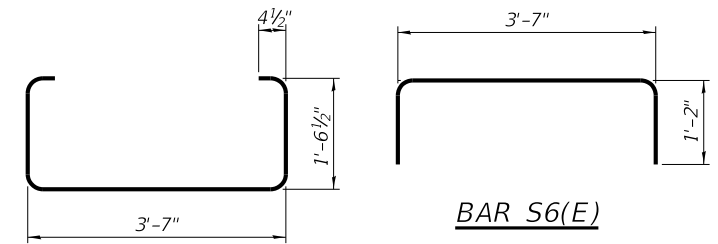
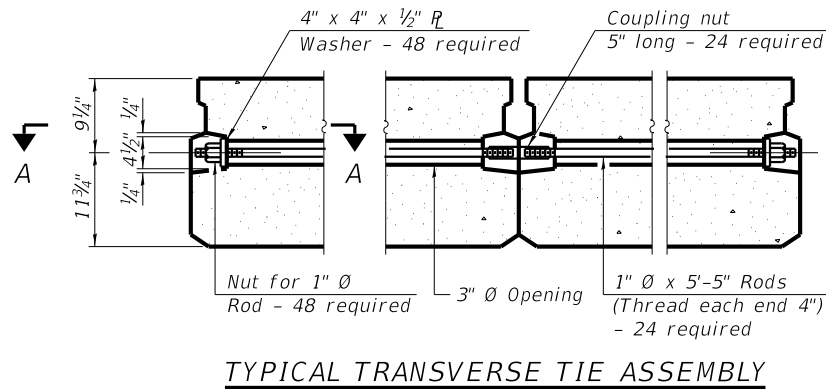
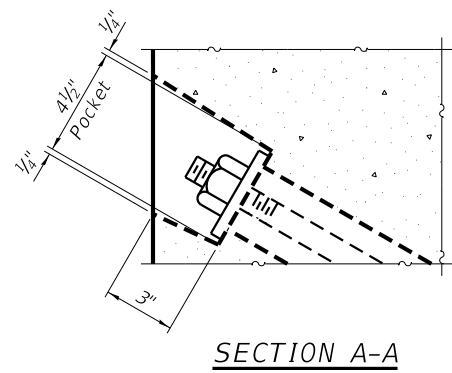
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| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK STATION 20+00



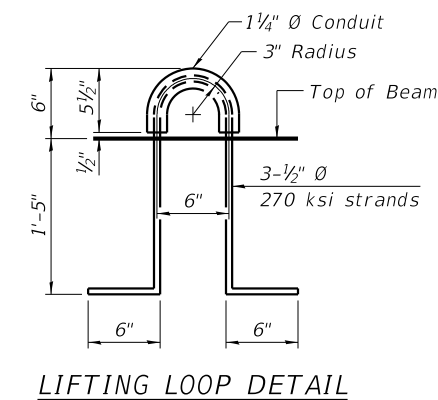
21" x 48" PPC DECK BEAM
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 6 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 16 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES

- See Structural Sheet 8 of 16 for Fabric Bearing Pad Details.
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706 Grade 60.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BILL OF MATERIAL

| | | |
|---|---------|-------|
| Precast Prestressed Concrete Deck Beams (21" depth) | Sq. Ft. | 1,540 |
|---|---------|-------|

Note:
Connect beams in pairs with the transverse tie configuration shown.
Unused transverse tie hole on exterior beams can be omitted.

| REVISION | DATE | BY | REMARKS |
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| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

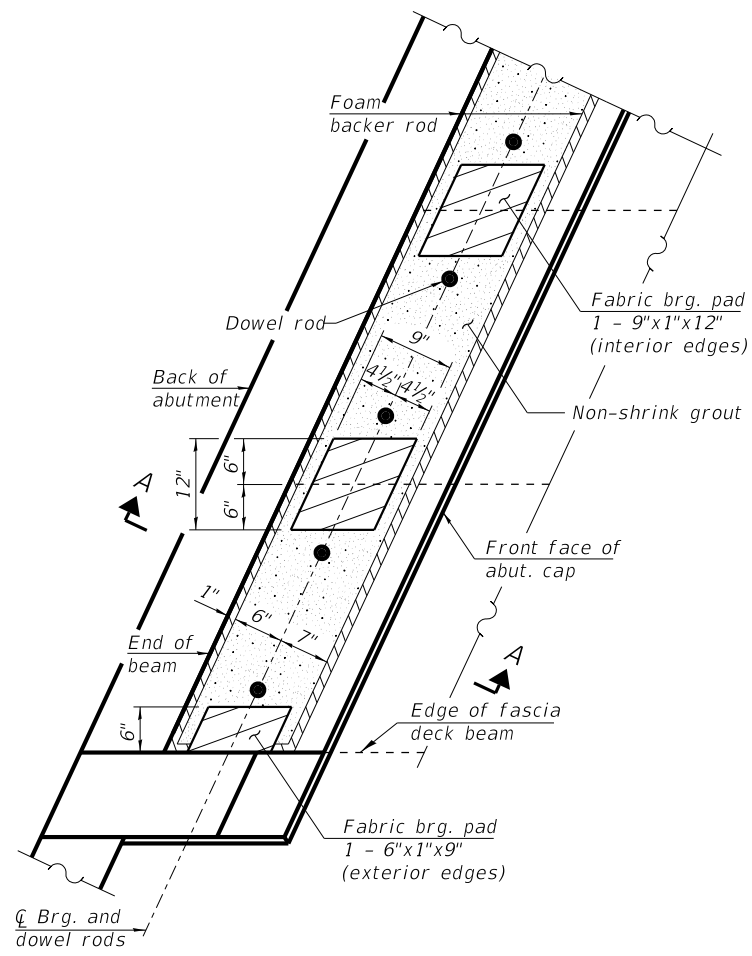
LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



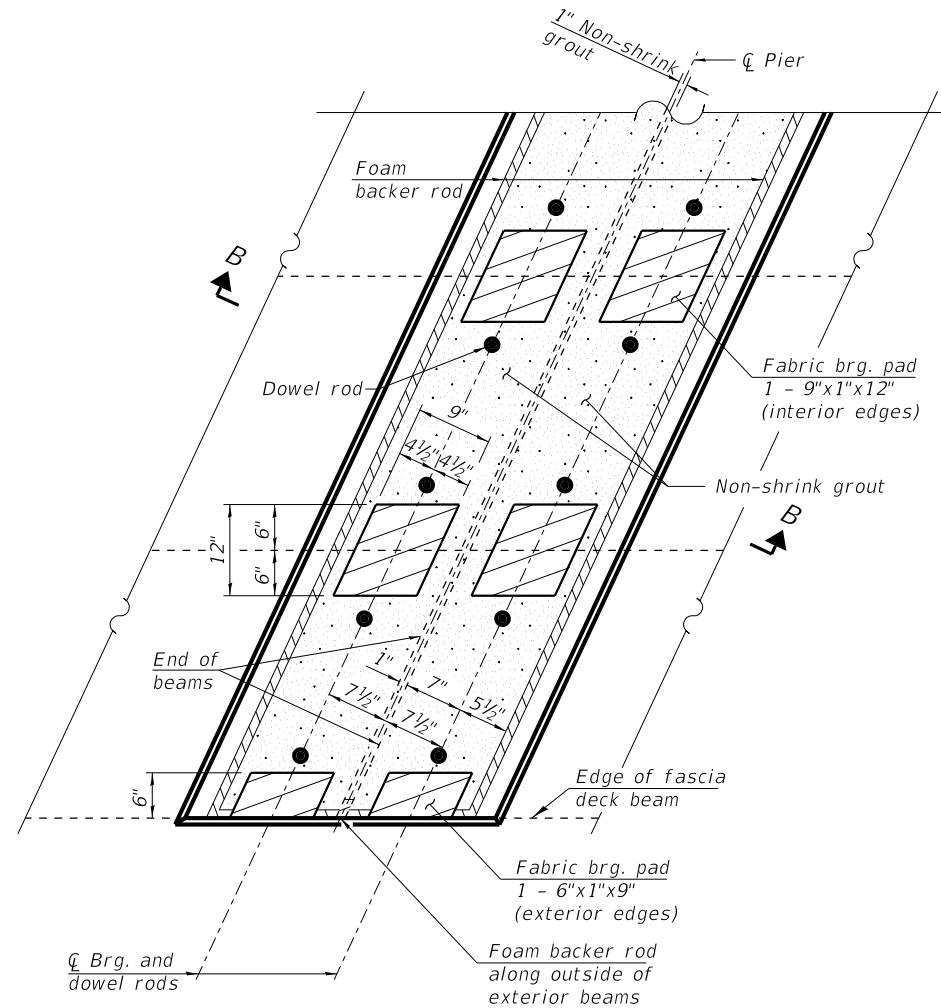
WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

21" x 48" DECK BEAM DETAILS
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 7 OF 16 SHEETS

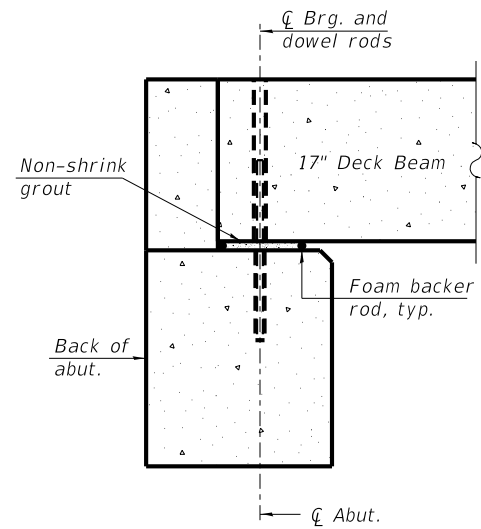
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 17 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



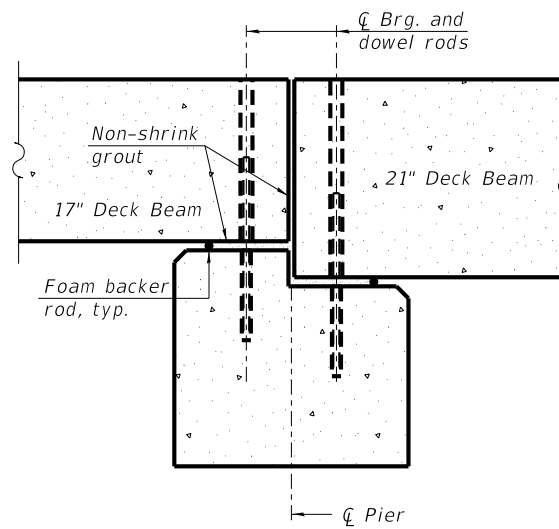
PLAN AT ABUTMENT



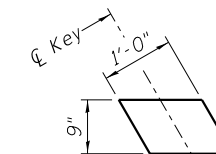
PLAN AT PIER



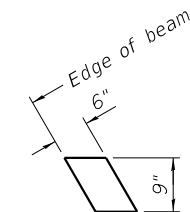
SECTION A-A



SECTION B-B



FABRIC BEARING PAD
(Interior)



FABRIC BEARING PAD
(Exterior)
FIXED

NOTE:

All bearing pads shall be 1" thick.

Exterior bearing pads shall be used at crown break.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
| | | | |
| | | | |

| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

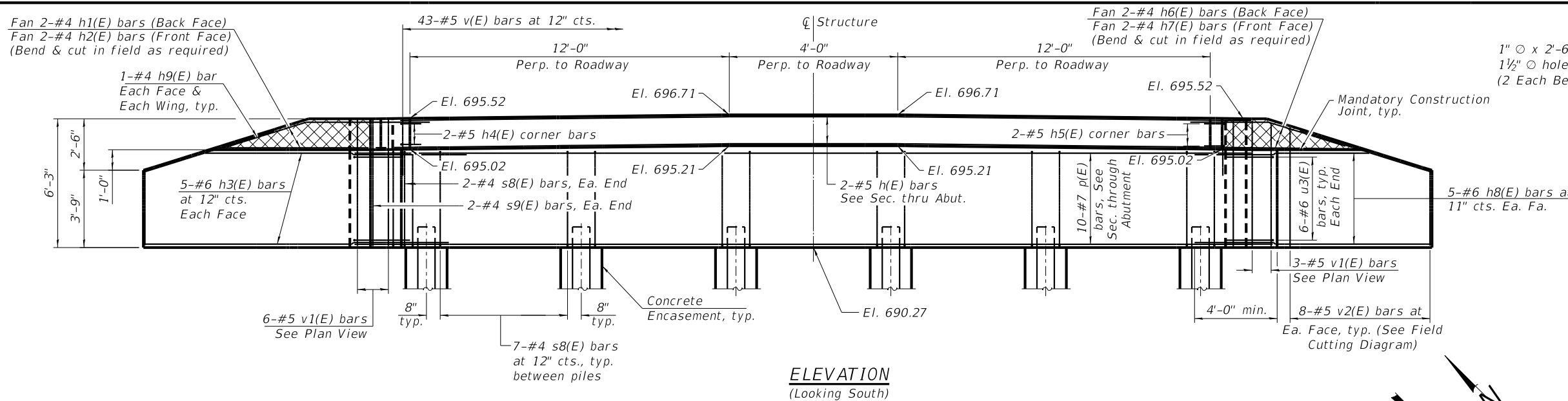


WILLETT HOFMANN
& ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

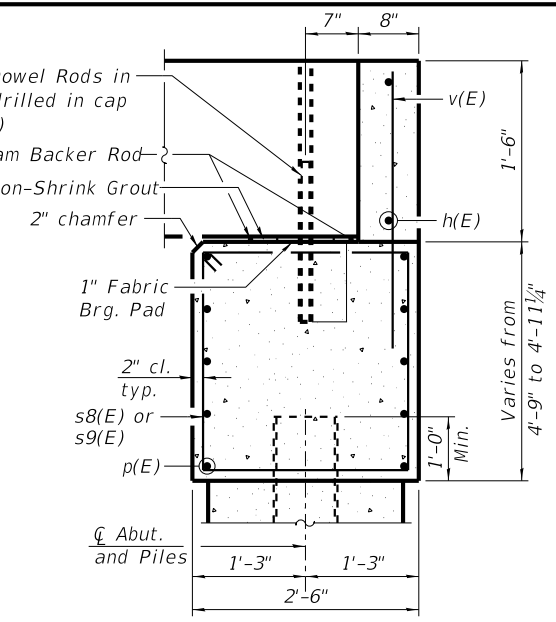
FIXED BEARING DETAILS
STRUCTURE NO. 050-3625

STRUCTURAL SHEET NO. 8 OF 16 SHEETS

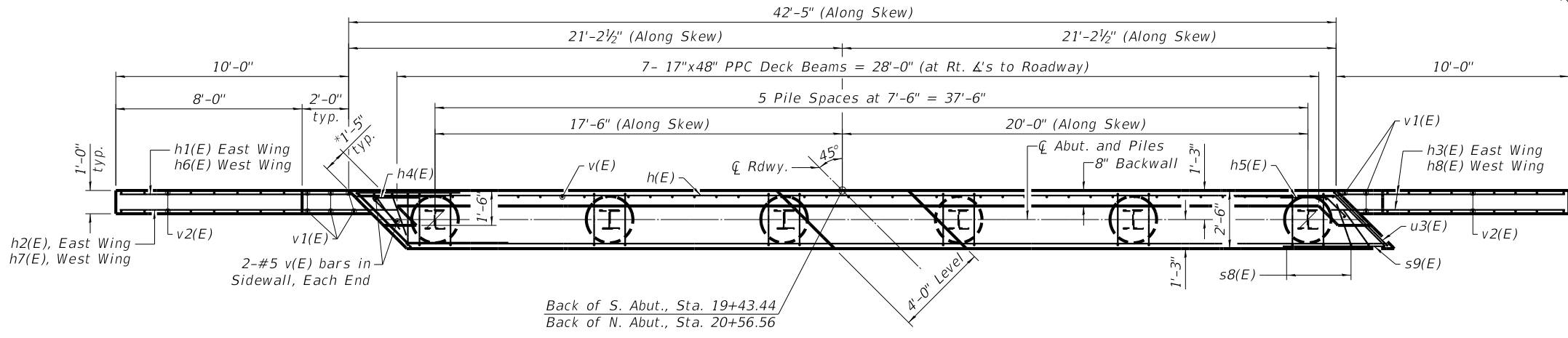
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 18 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



ELEVATION
(Looking South)



SEC. THRU ABUT.
(Dimensions are at Rt. L's)



PLAN

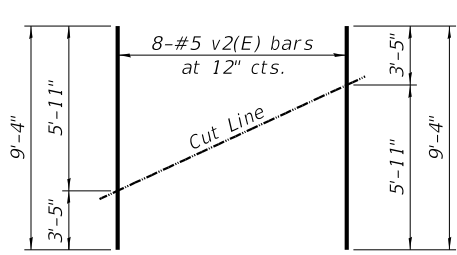
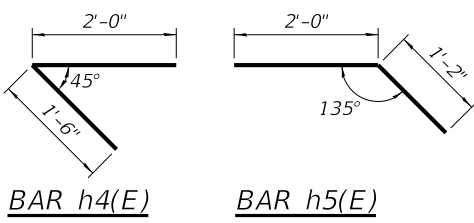
BILL OF MATERIAL - 2 ABUTS.

| Bar | No. | Size | Length | Shape |
|-------------------------------------|-----|---------|---------|-------|
| h(E) | 6 | #5 | 42'-1" | — |
| h1(E) | 4 | #4 | 14'-1" | — |
| h2(E) | 4 | #4 | 11'-10" | — |
| h3(E) | 20 | #6 | 15'-0" | — |
| h4(E) | 4 | #5 | 3'-6" | ↘ |
| h5(E) | 4 | #5 | 3'-2" | ↘ |
| h6(E) | 4 | #4 | 13'-8" | — |
| h7(E) | 4 | #4 | 10'-2" | — |
| h8(E) | 20 | #6 | 14'-0" | — |
| h9(E) | 8 | #4 | 6'-6" | — |
| p(E) | 20 | #7 | 42'-1" | — |
| s8(E) | 78 | #4 | 13'-11" | □ |
| s9(E) | 8 | #4 | 15'-11" | □ |
| u3(E) | 24 | #6 | 7'-11" | ┘ |
| v(E) | 94 | #5 | 3'-6" | — |
| v1(E) | 18 | #5 | 5'-11" | — |
| v2(E) | 32 | #5 | 9'-4" | — |
| Structure Excavation | | Cu. Yd. | 74 | |
| Concrete Structures | | Cu. Yd. | 49.2 | |
| Concrete Encasement | | Cu. Yd. | 4.2 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 4,840 | |
| Furnishing Steel Piles HP 10x42 | | Foot | 505 | |
| Driving Piles | | Foot | 505 | |
| Test Pile Steel HP 10x42 | | Each | 2 | |
| ** Granular Backfill for Structures | | Cu. Yd. | 108 | |
| Pile Shoes | | Each | 12 | |

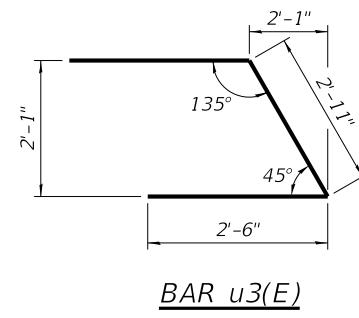
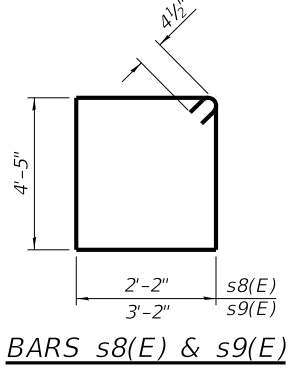
ABOVE CONSTRUCTION JOINT IN WINGWALL

BELOW CONSTRUCTION JOINT IN WINGWALL

PILE DATA
Type: Steel HP 10x42
Nominal Required Bearing: Drive to Refusal
Factored Resistance Available: 184 k
Est. Length: 50' (S. Abut.), 51' (N. Abut.)
No. Production Piles: 5 (Each Abutment)
No. Test Piles: 1 (Each Abutment)



FIELD CUTTING DIAGRAM
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



NOTES:
Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours.
All exposed edges shall have standard 3/4" chamfers, except as noted.
Space reinforcement in cap to miss dowel rods.
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
For Concrete Encasement details, see Structural Sheet 13 of 16.
For pile details, see Structural Sheet 13 of 16.
* May vary due to overrun of beams.
** For backfill details, see Structural Sheet 3 of 16.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
| | | | |
| | | | |

| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

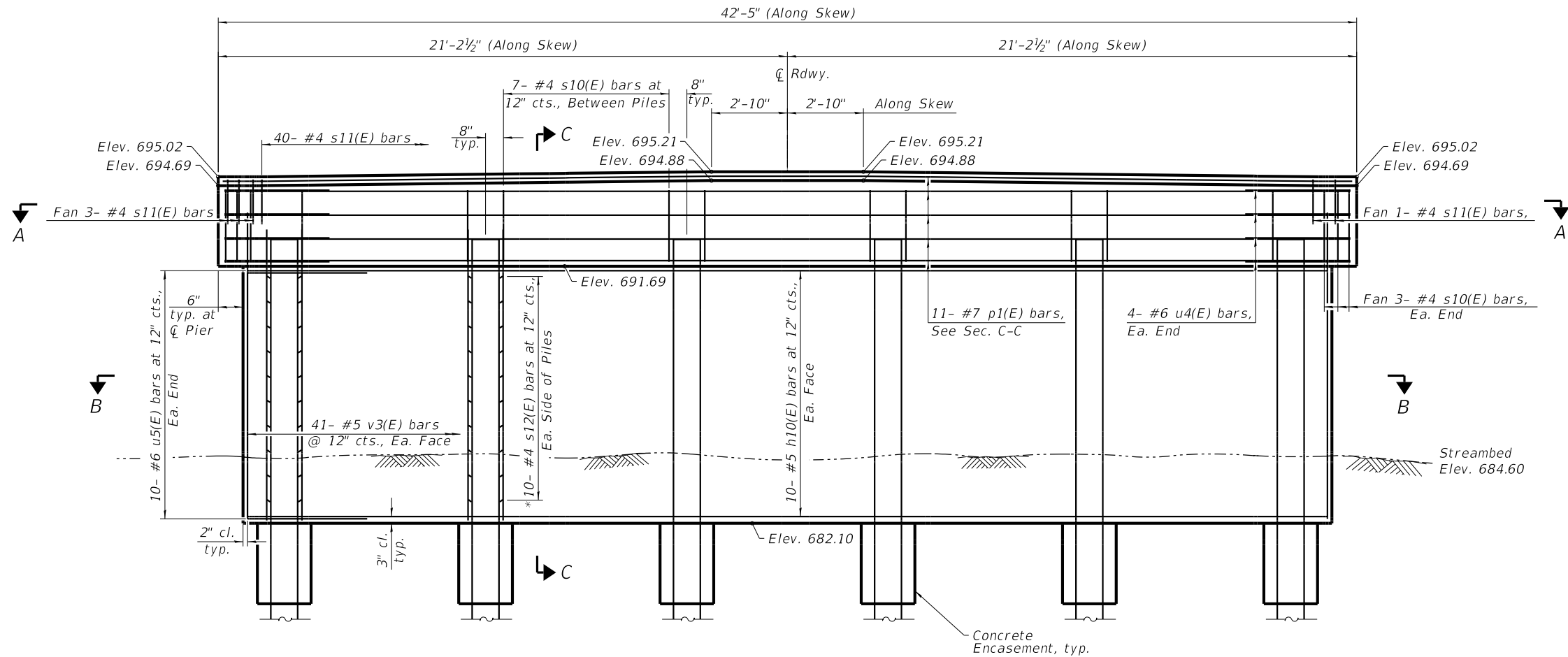
LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



ABUTMENT DETAILS
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 9 OF 16 SHEETS

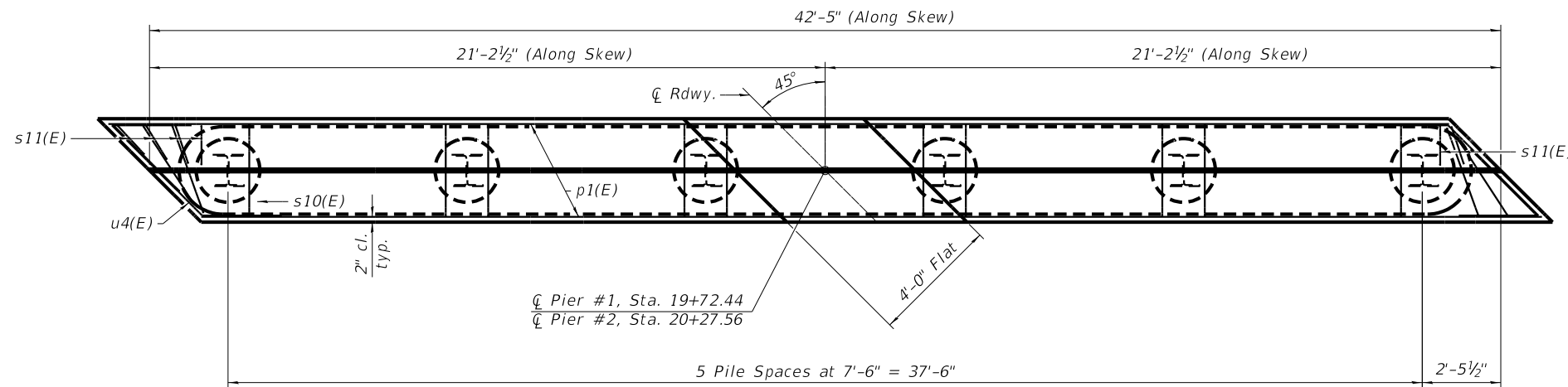
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 19 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |

ILLINOIS FED. AID PROJECT



ELEVATION VIEW

*Adjust location of s12(E) bars at exterior piles to provide 2" clear cover.



SECTION A-A

PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: Drive to Refusal
 Factored Resistance Available: 184 k
 Est. Length: 51' (Pier #1), 53' (Pier #2)
 No. Production Piles: 5 (Each Pier)
 No. Test Piles: 1 (Each Pier)

BILL OF MATERIAL - 2 PIERS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| h10(E) | 40 | 5 | 39'-2" | |
| p1(E) | 22 | 7 | 42'-0" | |
| s10(E) | 82 | 4 | 11'-11" | |
| s11(E) | 88 | 4 | 6'-7" | |
| s12(E) | 120 | 4 | 3'-3" | |
| u4(E) | 16 | 6 | 9'-0" | |
| u5(E) | 40 | 6 | 11'-11" | |
| v3(E) | 164 | 5 | 11'-5" | |
| Concrete Structures | | | Cu. Yd. | 55.7 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 7,980 |
| Furnishing Steel Piles HP 12X53 | | | Foot | 520 |
| Driving Piles | | | Foot | 520 |
| Test Pile Steel HP 12X53 | | | Each | 2 |
| Pile Shoes | | | Each | 12 |

NOTES:

See Structural Sheet 11 of 16 for Sections B-B, C-C and bar details.
 For Concrete Encasement details, see Structural Sheet 13 of 16.
 For Pile details, see Structural Sheet 13 of 16.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
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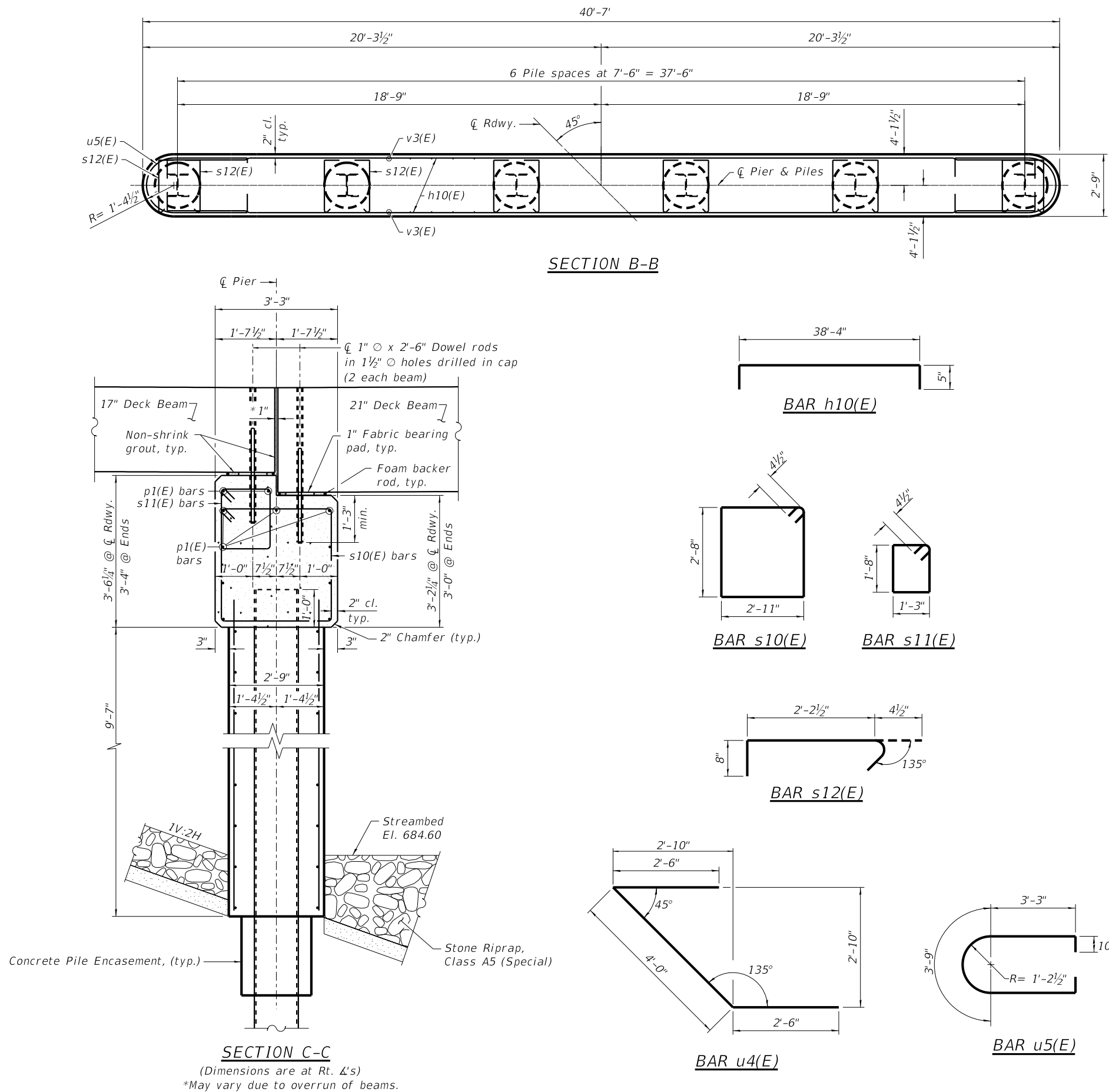
| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
 T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
 STATION 20+00

WILLET HOFMANN & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

PIER DETAILS
 STRUCTURE NO. 050-3625
 STRUCTURAL SHEET NO. 10 OF 16 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 20 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |



NOTES:
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Space reinforcement in cap to miss dowel rods.
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
| | | | |
| | | | |

| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

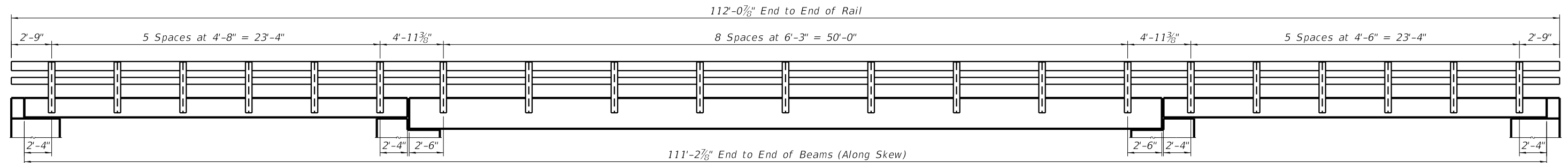
LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



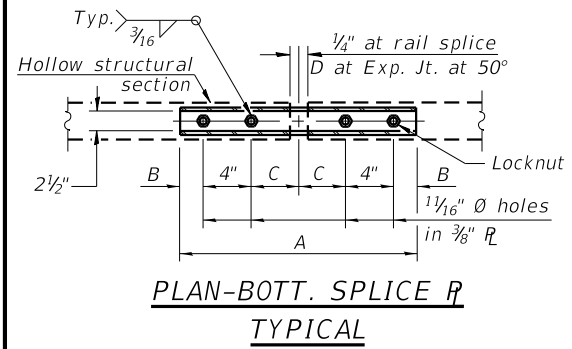
WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

PIER DETAILS
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 11 OF 16 SHEETS

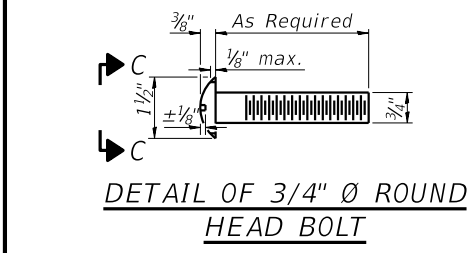
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 21 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



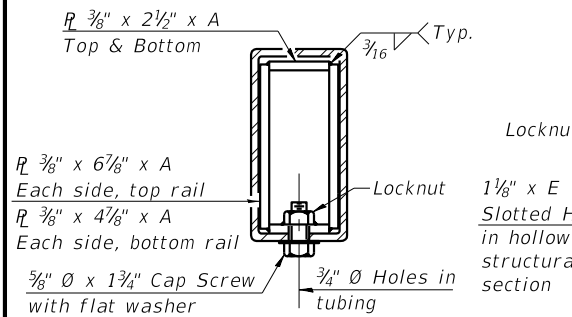
ELEVATION VIEW



PLAN-BOTT. SPLICE R TYPICAL

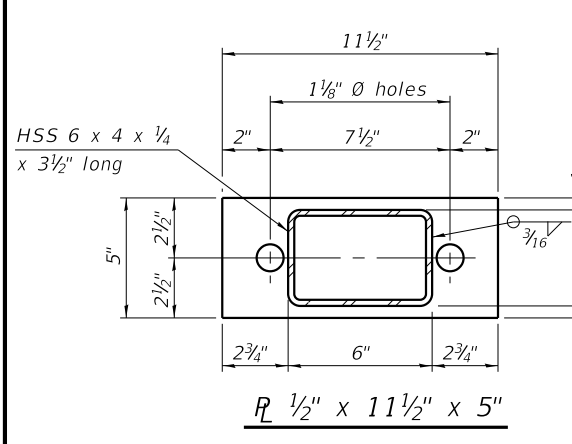


DETAIL OF 3/4" Ø ROUND HEAD BOLT

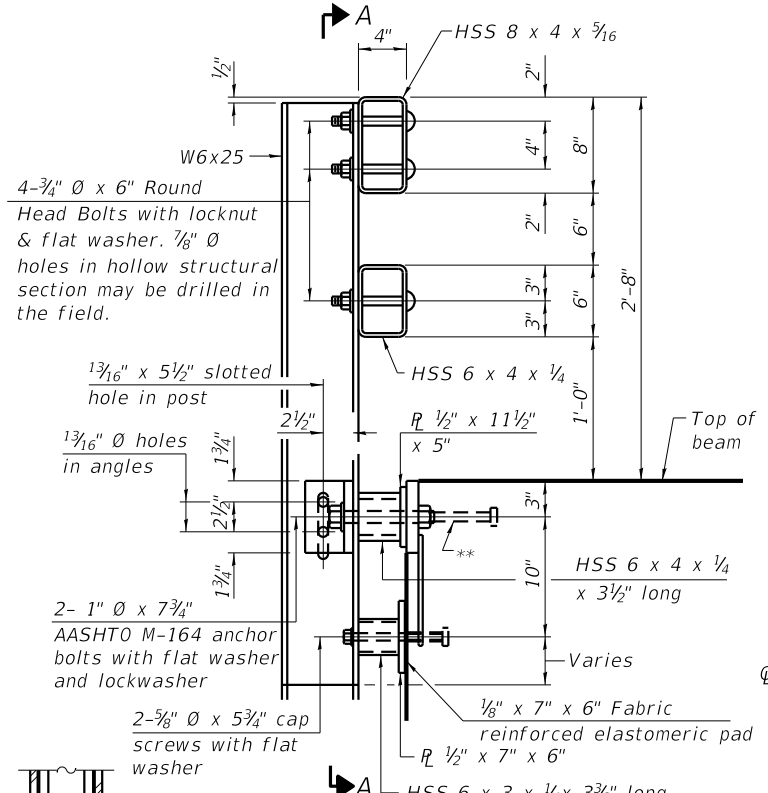


SECTION AT RAIL SPLICE

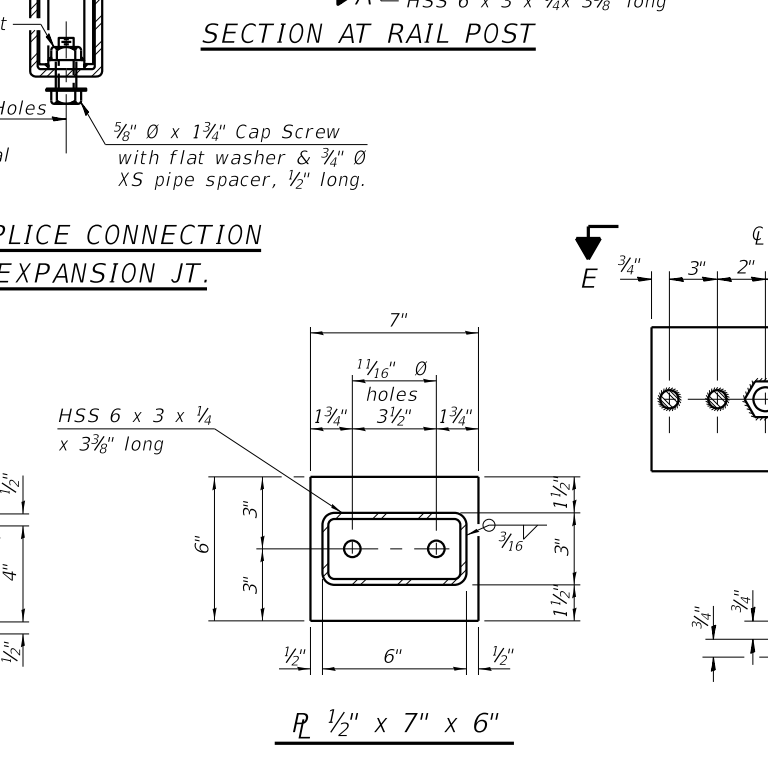
RAIL SPLICE CONNECTION AT EXPANSION JT.



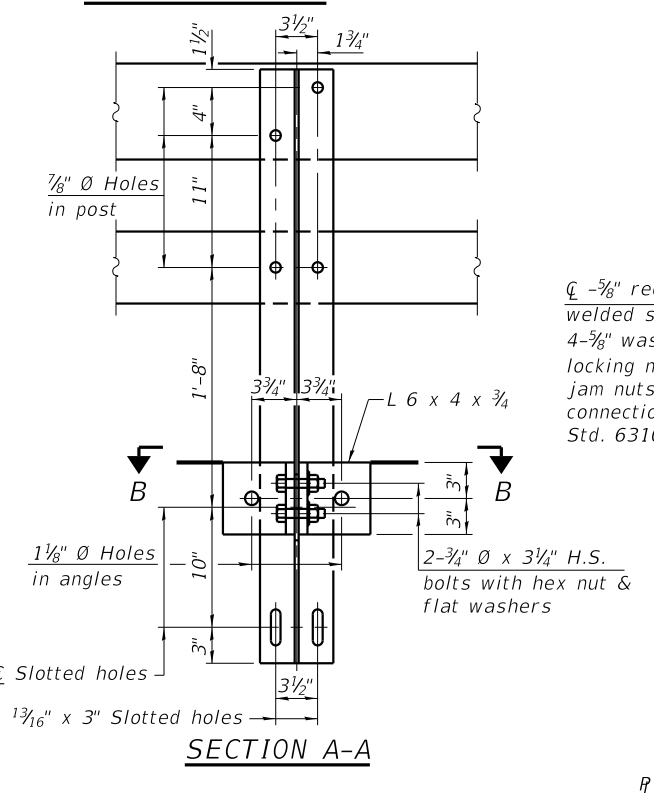
R 1/2" x 11 1/2" x 5"



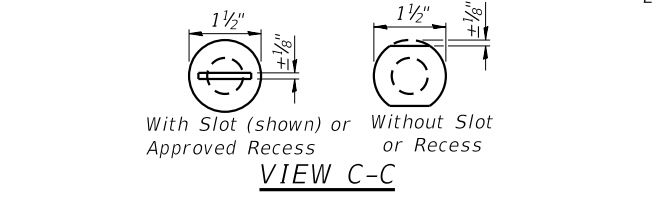
SECTION AT RAIL POST



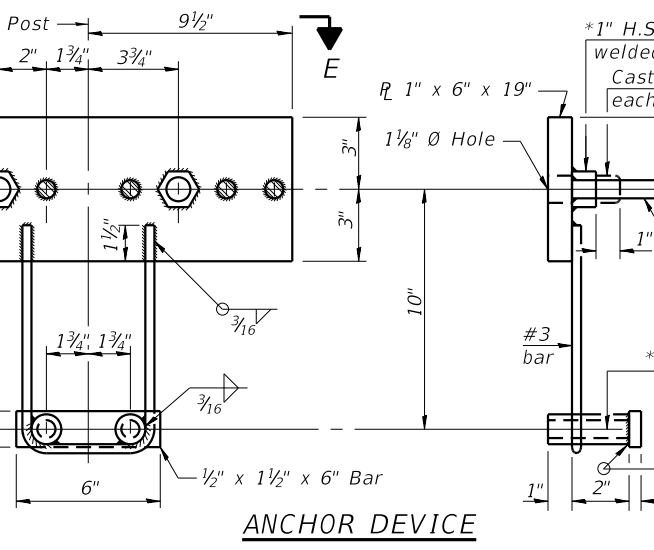
R 1/2" x 7" x 6"



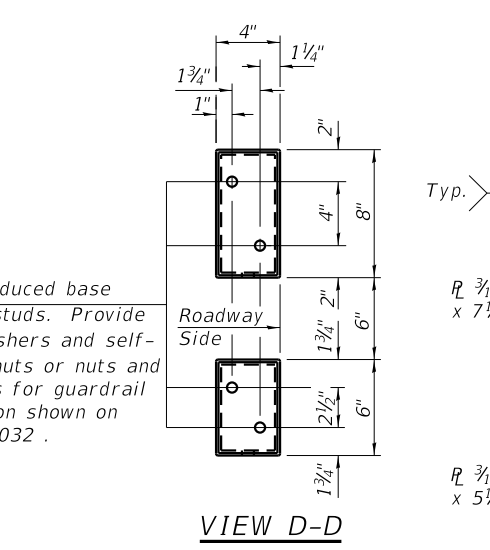
SECTION A-A



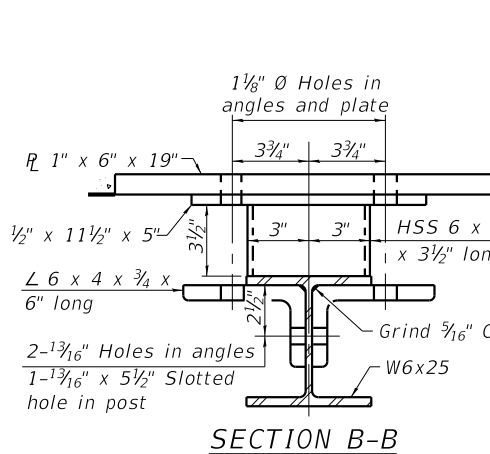
VIEW C-C



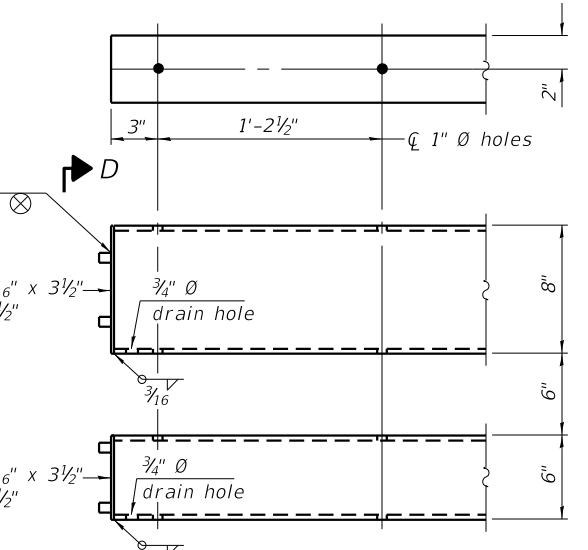
ANCHOR DEVICE



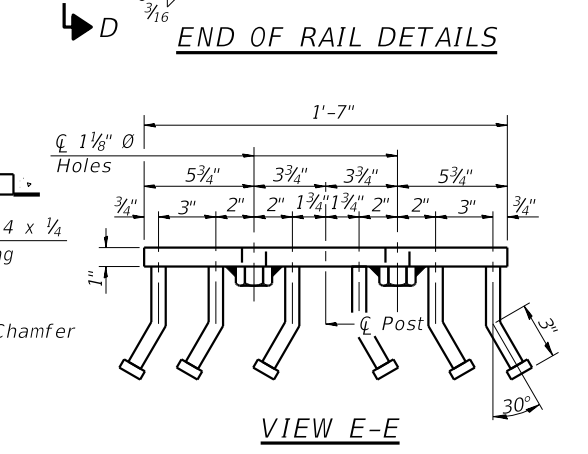
VIEW D-D



SECTION B-B



END OF RAIL DETAILS



VIEW E-E

BILL OF MATERIAL

| Item | Unit | Quantity |
|------------------------|------|----------|
| Steel Railing, Type SM | Foot | 224 |

NOTES:

- For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
- All Steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
- *Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
- **The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |

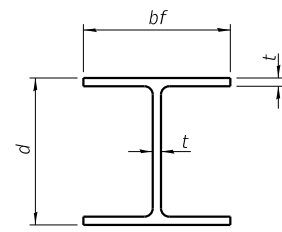
| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

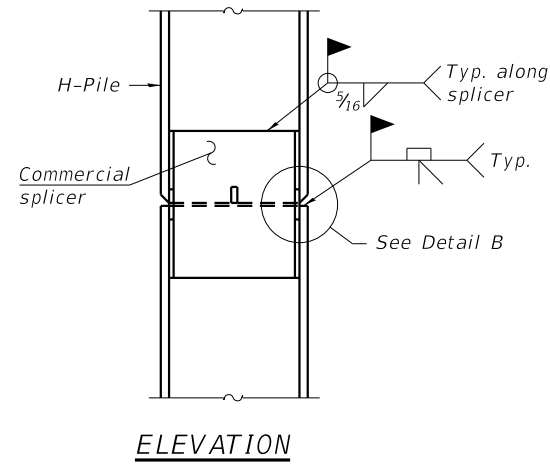
STEEL RAILING, TYPE SM
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 12 OF 16 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 22 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

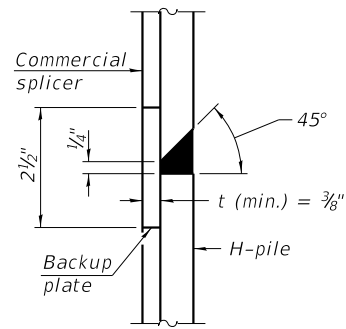


STEEL PILE TABLE

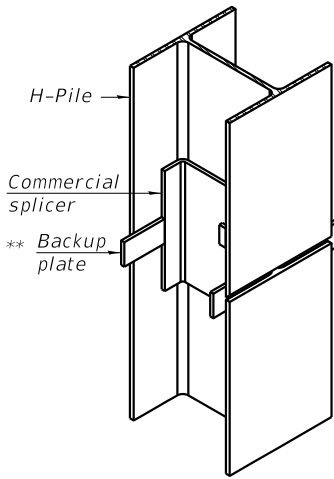
| Designation | Depth d | Flange width bf | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117 | 14 1/4" | 14 7/8" | 1 3/16" | 30" |
| x102 | 14" | 14 3/4" | 1 1/16" | 30" |
| x89 | 13 7/8"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



ELEVATION

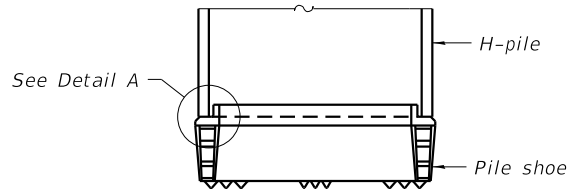


DETAIL "B"

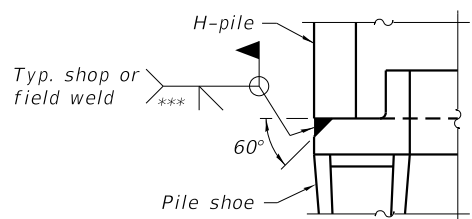


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



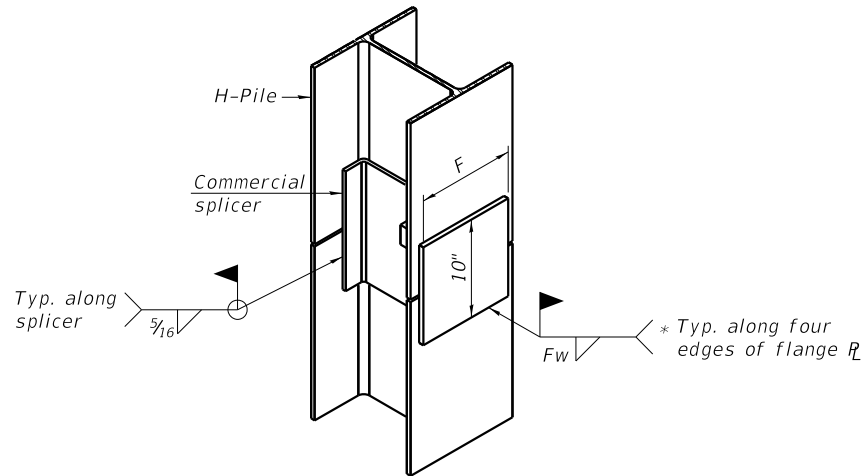
ELEVATION



DETAIL A

SHOE ATTACHMENT

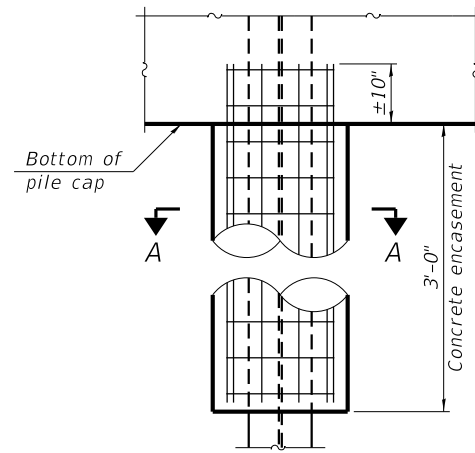
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



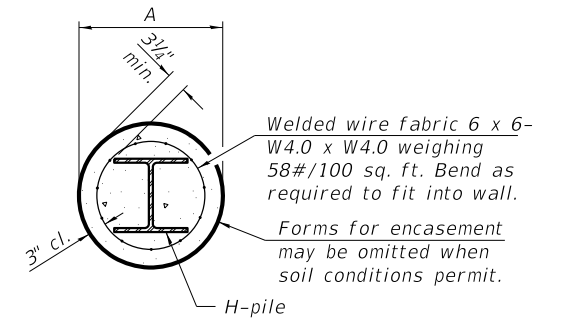
ISOMETRIC VIEW

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.).

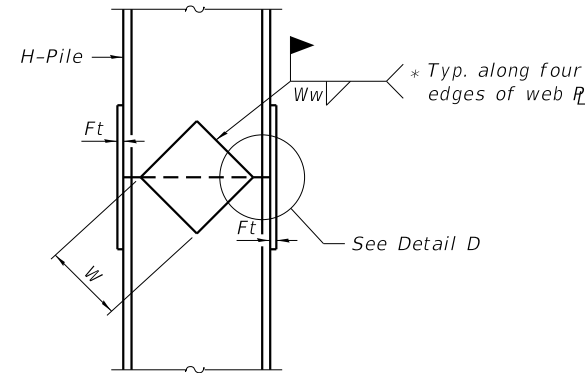


ELEVATION

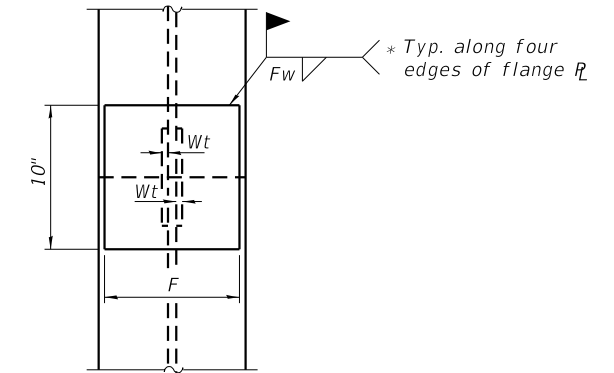


SECTION A-A

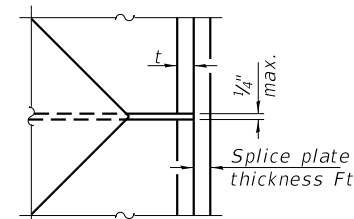
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

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

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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| | | | |

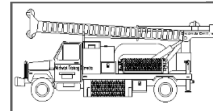
| | |
|----------|-----|
| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

HP PILE DETAILS
STRUCTURE NO. 050-3625
STRUCTURAL SHEET NO. 13 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 23 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

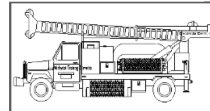
Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

Boring No. B-1
Surface Elev. 694.40
Auger Depth 52' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Right Of Station 19+48

| (DEPTH) *ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|-------------------|---------------------------------------|----------------|------------------|------------|-------------|----------|-----------------|---------------|--------------|-----------------------------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 694.40 | | | | | | | | | | Randy Safranski Diedrich D-120 | |
| 693.40 | | | 1 | | | | | | | | |
| 692.40 | | | 2 | | | | | | | | |
| 691.40 | Medium Brown Gravelly Loam (Fill) | | 3 | 1 | SS | --- | 12 | --- | 12 | | |
| 690.40 | | | 4 | | | | | | | | |
| 689.40 | | | 5 | 2 | SS | --- | 17 | --- | 10 | | |
| 688.40 | | | 6 | | | | | | | | |
| 687.40 | Medium Brown Fine Sand | | 7 | | | | | | | | |
| 686.40 | | | 8 | 3 | SS | --- | 12 | --- | 13 | | |
| 685.40 | | | 9 | | | | | | | | |
| 684.40 | Stiff Brownish Gray Clay | | 10 | 4 | SS | 1.6 | 8 | B | 20 | | |
| 683.40 | | | 11 | | | | | | | | |
| 682.40 | | | 12 | | | | | | | | |
| 681.40 | Very Stiff Brownish Gray Clay Till | | 13 | 5 | SS | 2.7 | 16 | B | 12 | | |
| 680.40 | | | 14 | | | | | | | | |
| 679.40 | | | 15 | 6 | SS | 4.3 | 21 | S | 12 | | |
| 678.40 | | | 16 | | | | | | | | |
| 677.40 | Hard Gray Clay Till | | 17 | | | | | | | | |
| 676.40 | | | 18 | 7 | SS | 4.7 | 22 | S | 11 | | |
| 675.40 | | | 19 | | | | | | | | |
| 674.40 | | | 20 | 8 | SS | 5.6 | 25 | S | 10 | | |

Groundwater Data: Static water level after auger removal Elevation 680.0
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

Boring No. B-1
Surface Elev. 694.40
Auger Depth 52' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Right Of Station 19+48

| (DEPTH) ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|------------------|--|----------------|------------------|------------|-------------|----------|-----------------|---------------|--------------|-----------------------------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 673.40 | | | | | | | | | | Randy Safranski Diedrich D-120 | |
| 672.40 | Hard Gray Clay Till | | 22 | | | | | | | | |
| 671.40 | | | 23 | 9 | SS | 5.1 | 21 | S | 11 | | |
| 670.40 | | | 24 | | | | | | | | |
| 669.40 | | | 25 | 10 | SS | --- | 27 | --- | --- | | |
| 668.40 | Medium To Dense Gray Fine Sand And Coarse Gravel | | 26 | | | | | | | | |
| 667.40 | | | 27 | | | | | | | | |
| 666.40 | | | 28 | 11 | SS | --- | 33 | --- | --- | | |
| 665.40 | | | 29 | | | | | | | | |
| 664.40 | | | 30 | 12 | SS | --- | 31 | --- | --- | | |
| 663.40 | | | 31 | | | | | | | | |
| 662.40 | | | 32 | | | | | | | | |
| 661.40 | Dense Gray Fine To Coarse Sand | | 33 | | | | | | | | |
| 660.40 | | | 34 | | | | | | | | |
| 659.40 | | | 35 | | | | | | | | |
| 658.40 | | | 36 | 13 | SS | --- | 32 | --- | --- | | |
| 657.40 | | | 37 | | | | | | | | |
| 656.40 | | | 38 | | | | | | | | |
| 655.40 | Medium Gray Coarse Sand With Occasional Coarse Gravel | | 39 | | | | | | | | |
| 654.40 | | | 40 | 14 | SS | --- | 18 | --- | --- | | |
| 653.40 | | | 41 | | | | | | | | |

Groundwater Data: Static water level after auger removal Elevation 680.0
Comments:

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
| | | | |
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| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

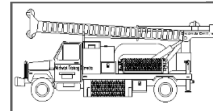


WILLET HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

BORING LOGS

STRUCTURAL SHEET NO. 14 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 24 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

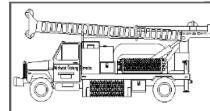
Boring No. B-1
Surface Elev. 694.40
Auger Depth 52' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Right Of Station 19+48

| (DEPTH) ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|---------------|-----------------------------------|-------------|---------------|------------|-------------|----------|-----------------|---------------|--------------|-----------------------------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 652.40 | | | | | | | | | | Randy Safranski Diedrich D-120 | |
| 651.40 | | | 43 | | | | | | | | |
| 650.40 | | | 44 | | | | | | | | |
| 649.40 | | | 45 | 15 | SS | --- | 35 | --- | --- | | |
| 648.40 | Dense Gray Coarse Sand And Gravel | | 46 | | | | | | | | |
| 647.40 | | | 47 | | | | | | | | |
| 646.40 | | | 48 | | | | | | | | |
| 645.40 | | | 49 | | | | | | | | |
| 644.40 | | | 50 | 16 | SS | --- | 42 | --- | --- | | |
| 643.40 | | | 51 | | | | | | | | |
| 642.40 | Refusal Limestone | | 52 | | | | | | | | |
| 641.40 | | | 53 | | | | | | | | |
| 640.40 | | | 54 | | | | | | | | |
| 639.40 | | | 55 | | | | | | | | |
| 638.40 | | | 56 | | | | | | | | |
| 637.40 | | | 57 | | | | | | | | |
| 636.40 | | | 58 | | | | | | | | |
| 635.40 | | | 59 | | | | | | | | |
| 634.40 | | | 60 | | | | | | | | |
| 633.40 | | | 61 | | | | | | | | |
| 632.40 | | 62 | | | | | | | | | |

Groundwater Data: Static water level after auger removal Elevation 680.0

Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

Boring No. B-2
Surface Elev. 694.40
Auger Depth 53.5' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Left Of Station 20+50

| (DEPTH) *ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|----------------|----------------------------------|-------------|---------------|------------|-------------|----------|-----------------|---------------|--------------|-----------------------------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 694.40 | | | | | | | | | | Randy Safranski Diedrich D-120 | |
| 693.40 | | | 1 | | | | | | | | |
| 692.40 | Medium Brown Gravely Loam (Fill) | | 2 | | | | | | | | |
| 691.40 | | | 3 | 1 | SS | --- | 15 | --- | 10 | | |
| 690.40 | | | 4 | | | | | | | | |
| 689.40 | Medium Brown Coarse Gravel | | 5 | 2 | SS | --- | 22 | --- | 8 | | |
| 688.40 | | | 6 | | | | | | | | |
| 687.40 | | | 7 | | | | | | | | |
| 686.40 | Medium Brown Fine Sand | | 8 | 3 | SS | --- | 13 | --- | 12 | | |
| 685.40 | | | 9 | | | | | | | | |
| 684.40 | Stiff Brownish Gray Clay | | 10 | 4 | SS | 1.4 | 8 | B | 21 | | |
| 683.40 | | | 11 | | | | | | | | |
| 682.40 | | | 12 | | | | | | | | |
| 681.40 | Medium Brown Coarse Gravel | | 13 | 5 | SS | --- | 24 | --- | --- | | |
| 680.40 | | | 14 | | | | | | | | |
| 679.40 | | | 15 | | | | | | | | |
| 678.40 | Hard Gray Clay Till | | 16 | 6 | SS | 4.5 | 23 | S | 10 | | |
| 677.40 | | | 17 | | | | | | | | |
| 676.40 | | | 18 | 7 | SS | 5.1 | 21 | S | 11 | | |
| 675.40 | | | 19 | | | | | | | | |
| 674.40 | | | 20 | 8 | SS | 5.0 | 22 | S | 10 | | |

Groundwater Data: Static water level after auger removal Elevation 680.0

Comments:

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
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| | | | |

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| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

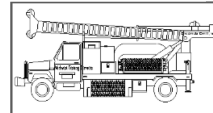


WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

BORING LOGS

STRUCTURAL SHEET NO. 15 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 25 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

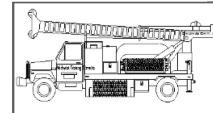
Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

Boring No. B-2
Surface Elev. 694.40
Auger Depth 53.5' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Left Of Station 20+50

| (DEPTH) ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|------------------|---|----------------|------------------|------------|-------------|----------|-----------------|---------------|--------------|------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 673.40 | | | | | | | | | | | |
| 672.40 | | | 22 | | | | | | | | |
| 671.40 | Hard Gray Clay Till | | 23 | 9 | SS | 5.6 | 24 | S | 70 | | |
| 670.40 | | | 24 | | | | | | | | |
| 669.40 | | | 25 | | | | | | | | |
| 668.40 | | | 26 | 10 | SS | --- | 18 | --- | --- | | |
| 667.40 | Medium Gray Fine Sand And Coarse Gravel | | 27 | | | | | | | | |
| 666.40 | | | 28 | 11 | SS | --- | 24 | --- | --- | | |
| 665.40 | | | 29 | | | | | | | | |
| 664.40 | | | 30 | 12 | SS | --- | 28 | --- | --- | | |
| 663.40 | | | 31 | | | | | | | | |
| 662.40 | | | 32 | | | | | | | | |
| 661.40 | Medium Gray Fine Sand To Coarse Sand | | 33 | | | | | | | | |
| 660.40 | | | 34 | | | | | | | | |
| 659.40 | | | 35 | | | | | | | | |
| 658.40 | | | 36 | 13 | SS | --- | 28 | --- | --- | | |
| 657.40 | | | 37 | | | | | | | | |
| 656.40 | | | 38 | | | | | | | | |
| 655.40 | Medium Gray Coarse Sand And Gravel | | 39 | | | | | | | | |
| 654.40 | | | 40 | | | | | | | | |
| 653.40 | | | 41 | 14 | SS | --- | 16 | --- | --- | | |

Groundwater Data: Static water level after auger removal Elevation 680.0
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Willet, Hofmann & Associates
Project Name: Section 18-09808-00-BR
Project Site: East 1250th Rd. Over Tributary To Indian Creek
LaSalle County, Illinois

Boring No. B-2
Surface Elev. 694.60
Auger Depth 53.5' Rotary Depth NA
Start Date 07/03/20 Finish Date 07/03/20

Location: 7' Left Of Station 20+50

| (DEPTH) ELEV. | DESCRIPTION OF MATERIALS | Graphic Log | Depth in feet | SAMPLES | | | | | | DRILLED BY | REMARKS |
|------------------|--|----------------|------------------|------------|-------------|----------|-----------------|---------------|--------------|------------|---------|
| | | | | Sample No. | Sample Type | Qu (TSF) | N Value (Blows) | Bulge / Shear | Moisture (%) | | |
| 652.60 | | | | | | | | | | | |
| 651.60 | | | 43 | | | | | | | | |
| 650.60 | | | 44 | | | | | | | | |
| 649.60 | | | 45 | | | | | | | | |
| 648.60 | | | 46 | 15 | SS | --- | 32 | --- | --- | | |
| 647.60 | Dense Gray Coarse Sand And Fine Gravel | | 47 | | | | | | | | |
| 646.60 | | | 48 | | | | | | | | |
| 645.60 | | | 49 | | | | | | | | |
| 644.60 | | | 50 | | | | | | | | |
| 643.60 | | | 51 | 16 | SS | --- | 39 | --- | --- | | |
| 642.60 | | | 52 | | | | | | | | |
| 641.60 | | | 53 | | | | | | | | |
| 640.60 | Refusal Limestone | | 54 | | | | | | | | |
| 639.60 | | | 55 | | | | | | | | |
| 638.60 | | | 56 | | | | | | | | |
| 637.60 | | | 57 | | | | | | | | |
| 636.60 | | | 58 | | | | | | | | |
| 635.60 | | | 59 | | | | | | | | |
| 634.60 | | | 60 | | | | | | | | |
| 633.60 | | | 61 | | | | | | | | |
| 632.60 | | | 62 | | | | | | | | |

Groundwater Data: Static water level after auger removal Elevation 680.0
Comments:

| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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| DESIGNED | MCW |
| DRAWN | DAN |
| REVIEWED | MCW |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00

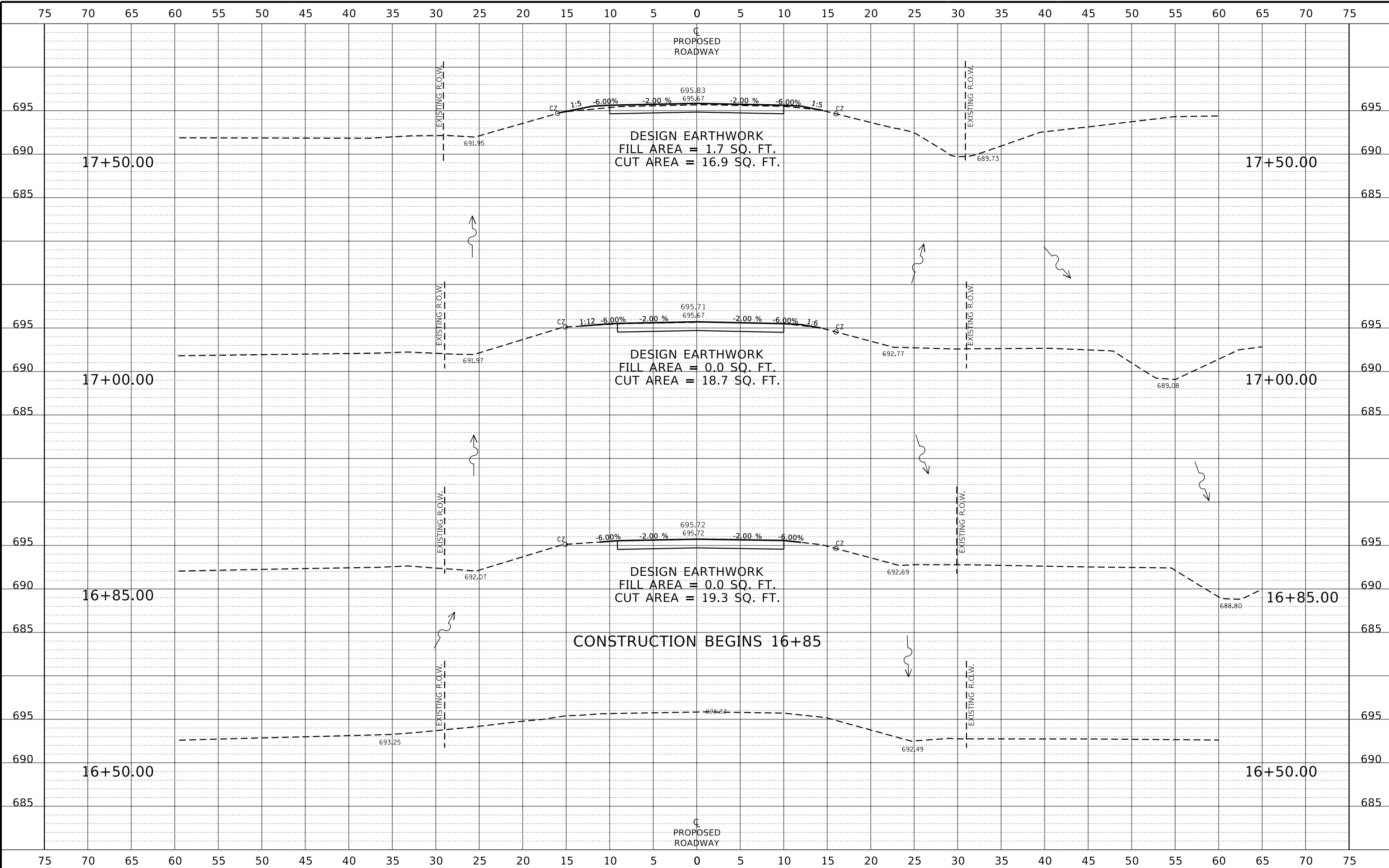


WILLET HOFMANN & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

BORING LOGS

STRUCTURAL SHEET NO. 16 OF 16 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 26 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
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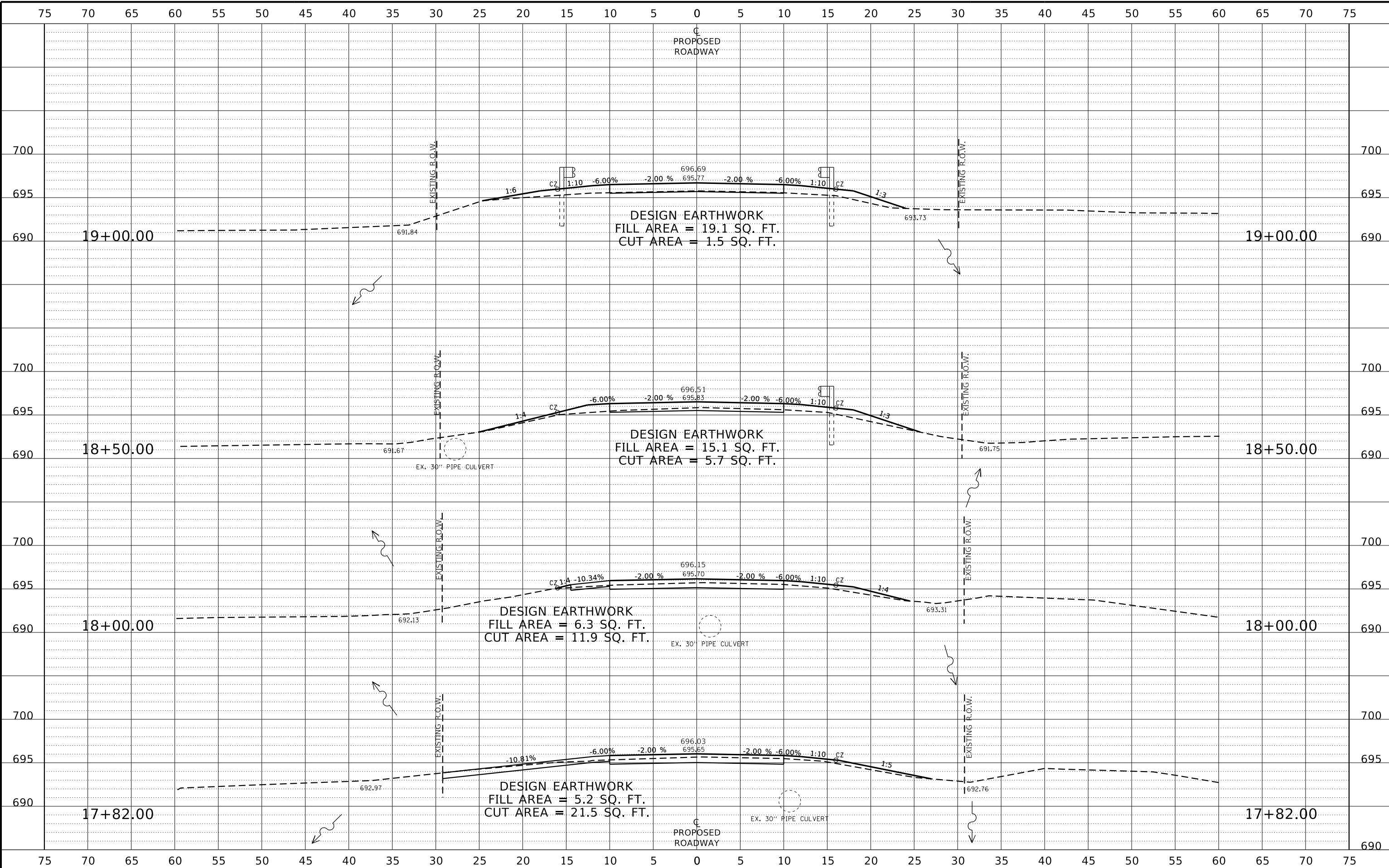
| | |
|----------|-----|
| DESIGNED | GBG |
| DRAWN | GBG |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



CROSS SECTIONS
T.R. 222 (1250TH ROAD)
SHEET 1 OF 5 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 27 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



| REVISION | DATE | BY | REMARKS |
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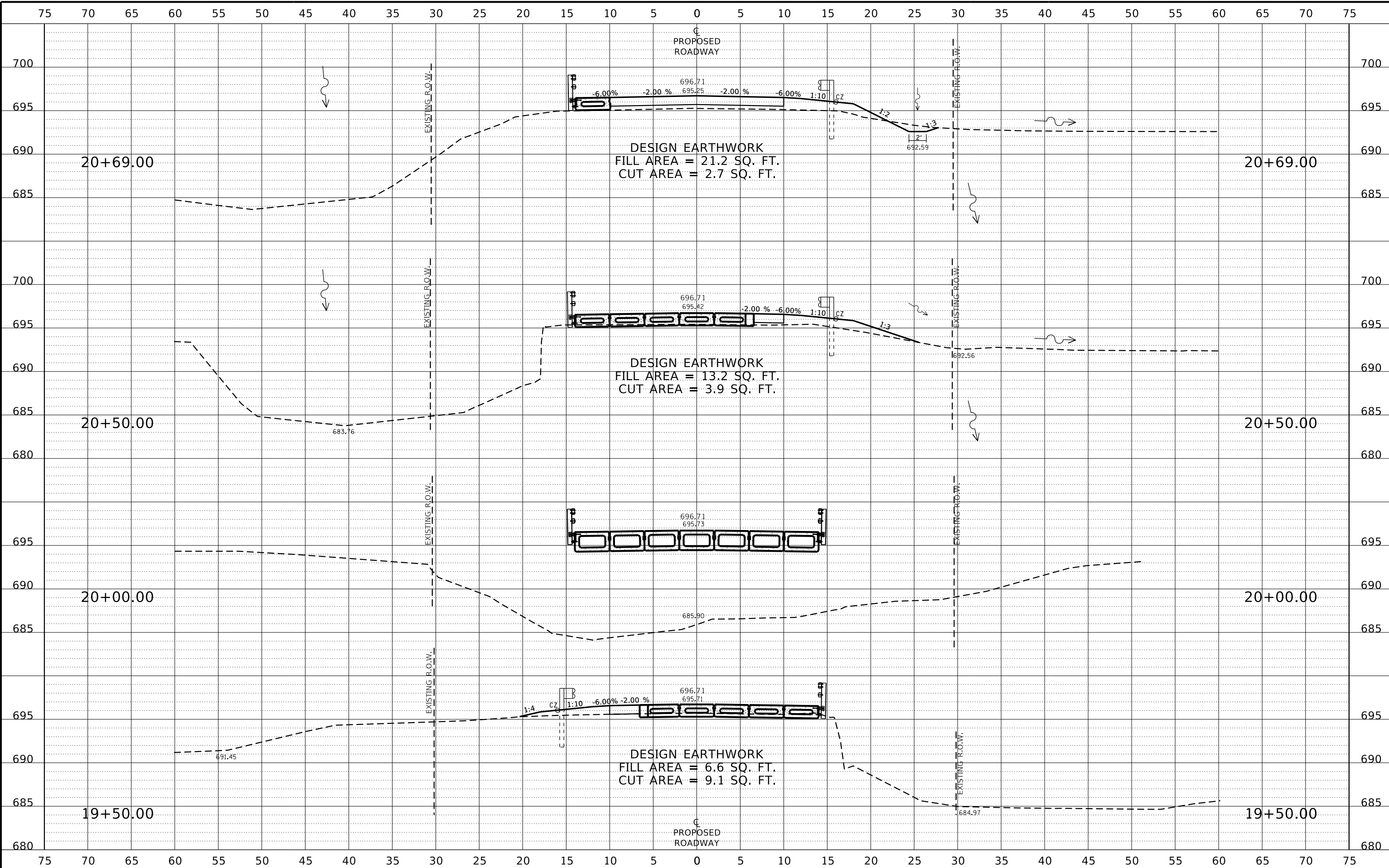
| | |
|----------|-----|
| DESIGNED | GBG |
| DRAWN | GBG |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



CROSS SECTIONS
T.R. 222 (1250TH ROAD)
SHEET 2 OF 5 SHEETS

| | | | | |
|---------------------------|----------------|--------------------|--------------|-----------|
| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 222 | 18-09808-00-BR | LASALLE | 31 | 28 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |



| REVISION | DATE | BY | REMARKS |
|----------|------|----|---------|
| | | | |
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| | |
|----------|-----|
| DESIGNED | GBG |
| DRAWN | GBG |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



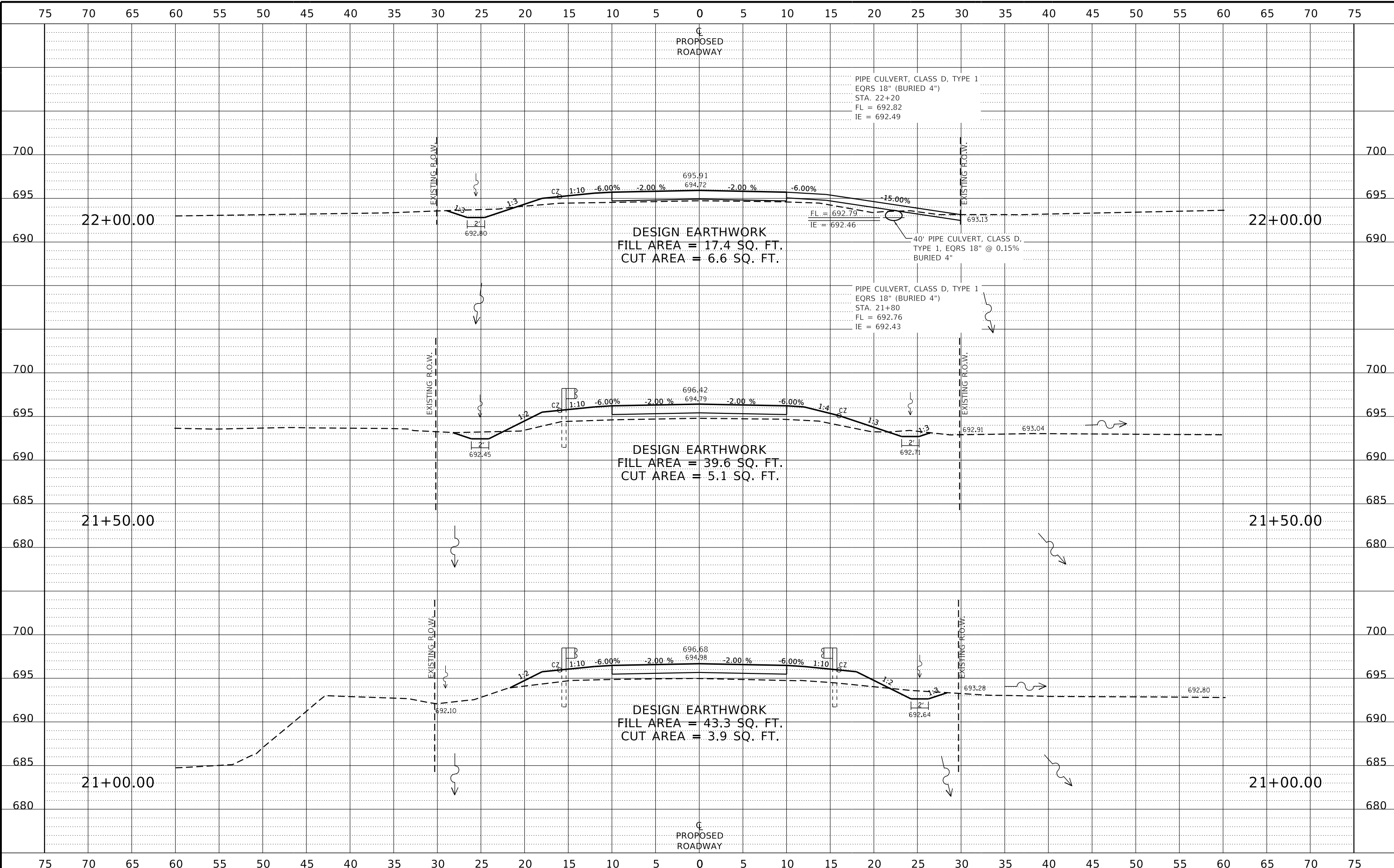
CROSS SECTIONS
T.R. 222 (1250TH ROAD)

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 29 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |

SHEET 3 OF 5 SHEETS

ILLINOIS FED. AID PROJECT

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| DESIGNED | GBG |
| DRAWN | GBG |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



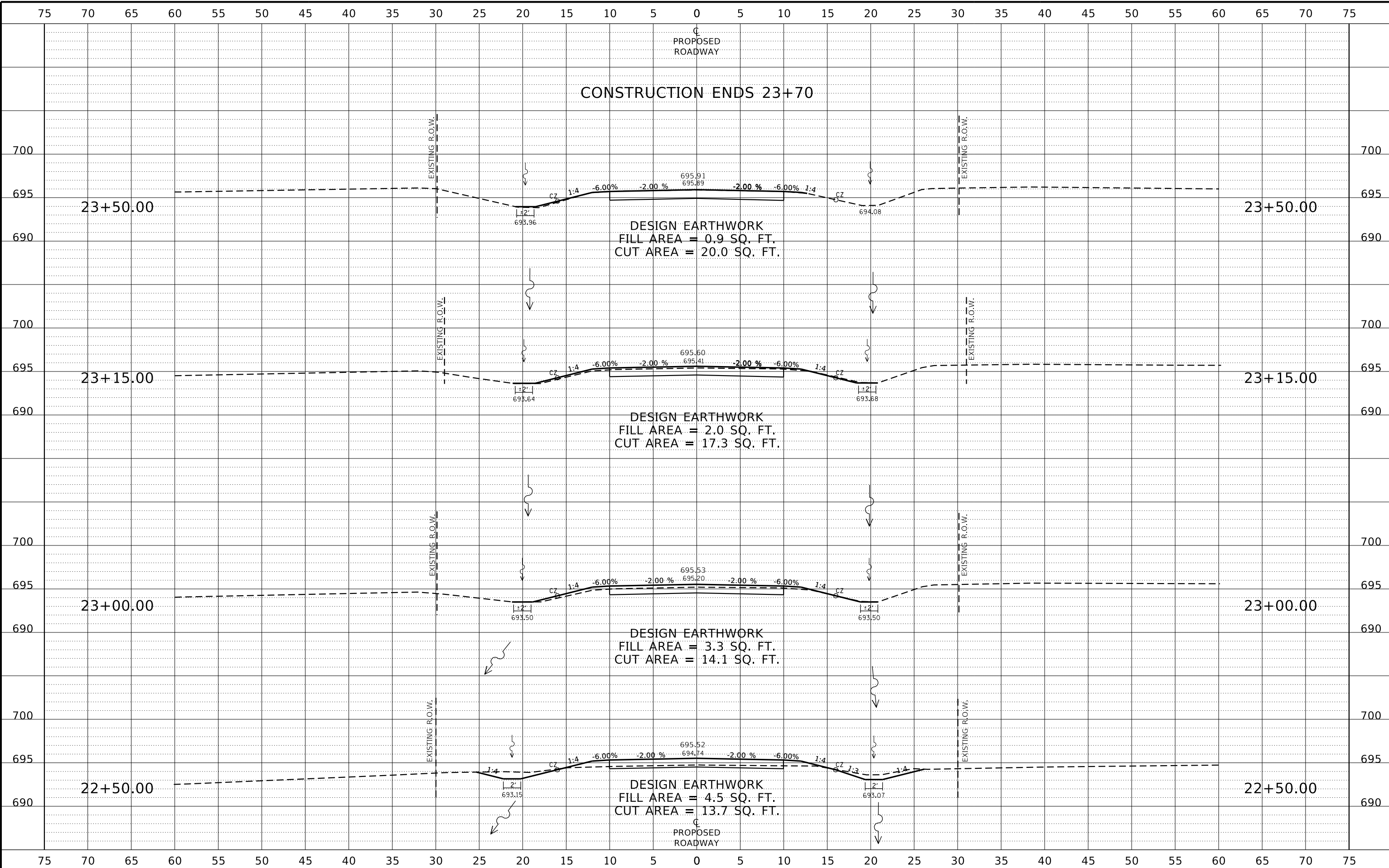
CROSS SECTIONS
T.R. 222 (1250TH ROAD)
SHEET 4 OF 5 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 30 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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|----------|-----|
| DESIGNED | GBG |
| DRAWN | GBG |
| REVIEWED | GFS |
| APPROVED | MRL |

LASALLE COUNTY
T.R. 222 (E. 1250TH ROAD) OVER A TRIBUTARY TO INDIAN CREEK
STATION 20+00



CROSS SECTIONS
T.R. 222 (1250TH ROAD)
SHEET 5 OF 5 SHEETS

| T.R. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------------------|--------------|-----------|
| 222 | 18-09808-00-BR | LASALLE | 31 | 31 |
| WHA# 1392D19 | | CONTRACT NO. 87742 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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